

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

VOLUME 01 - CIVIL, LANDSCAPE, ARCH SITE, STRUCT, & ARCH

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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COVER SHEET - VOLUME 01

VOLUME 01

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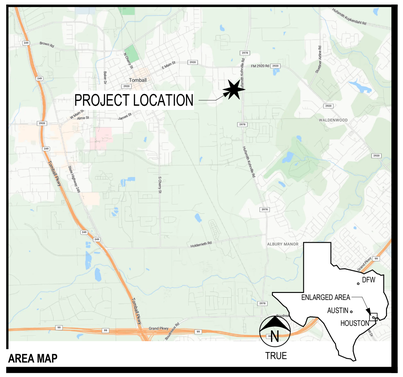
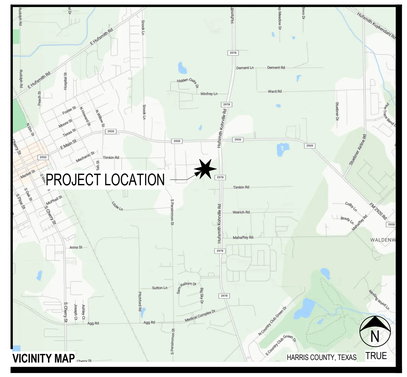


AREA MAP



VICINITY MAP

ALTERNATE #1:
1A: PROVIDE ROTARY-SCREW WATER CHILLERS AS MANUFACTURED BY CARRIER CORPORATION AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.
1B: PROVIDE ROTARY-SCREW WATER CHILLERS AS MANUFACTURED BY JCI/YORK CORPORATION AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.

ALTERNATE #2:
2A: PROVIDE MODULAR CENTRAL-STATION AIR-HANDLING UNITS AS MANUFACTURED BY CARRIER AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.
2B: PROVIDE MODULAR CENTRAL-STATION AIR-HANDLING UNITS AS MANUFACTURED BY JCI/YORK AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.

ALTERNATE #3: PROVIDE NEW DDC BUILDING MANAGEMENT SYSTEM BY UNIFY AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF AUTOMATED LOGIC (ALC).

ALTERNATE #4: PROVIDE PEX FOR DOMESTIC HOT AND COLD WATER PIPING FOR ALL PIPING 1-1/2" AND SMALLER AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF HARD DRAWN COPPER.

ALTERNATE #5: PROVIDE STRIPING WITHIN FIRE TURNING CIRCLE AS SPECIFIED AND AS SHOWN ON THE AS DRAWING SHEETS.

ALTERNATES

AB	ANCHOR BOLT
A/C	AIR CONDITIONER
ACC	ACCESSIBLE
ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ADA	AMERICANS WITH DISABILITES ACT / ADA STANDARDS FOR ACCESSIBLE DESIGN (LATEST VERSION)
ADDNL	ADDITIONAL
ADJ	ADJUSTABLE
ADH	ADHESIVE/ADHERE
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AGRICULTURE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACOUSTICAL PANELS
AP	ASSISTANT PRINCIPAL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	BEYOND
B/B	BACK TO BACK
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BASE, PORCELAIN TILE
BR	BASE, RUBBER
BRES	BASE, RESINOUS INTEGRAL
BRG	BEARING
BRK	BRICK
BRV	BASE, RUBBER VENTED
BTC	BASE, TILE CERAMIC
BTZP	BASE, TERRAZZO PRECAST
BS	BOTH SIDES
BTWN	BETWEEN
BW	BOTH WAYS
BWD	BASE, WOOD
C/C	CENTER TO CENTER
CAB	CABINET
CCD	COILING COUNTER DOOR
CCPS	CERAMIC CLADDING PANEL SYSTEM
CDW	CUSTOM DIGITAL WALLCOVERINGS
CDAP	CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CFMF	COLD-FORMED METAL FRAMING
CH	CHANNEL
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTRD	CENTERED
CO	CLEAN OUT/CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONF	CONFIGURATIONS / CONFERENCE
CONN(S)	CONNECTION(S)
CONT	CONTINUOUS
COORD	COORDINATE
COP	CONCRETE (POLISHED)
CORR	CORRIDOR
COS	CONCRETE SEALED
CPT	CARPET, SHEET
CPY	CANOPY
CR	CLASSROOM
CS	CAST STONE
CSM	CONCRETE STONE MASONRY
CU	CONDENSING UNIT
CUST	CUSTODIAN
CT	CARPET, TILED
CTE	CAREER TRAINING ED
CTRL	CONTROL
CW	CURTAIN WALL
CWF	CUSTOM WINDOW FILM
DBL	DOUBLE
DET	DETAIL
DH	DOOR HARDWARE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EBWS	EPOXY BASED WALL SYSTEM
ED	EDUCATION
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EPNT	EPOXY PAINT
EQ	EQUAL (EQUALLY)
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTNG	EXTINGUISHER
F/F	FACE TO FACE
FC	FURRING CHANNEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER (SURFACE MOUNT)
FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET (SEMI-RECESSED)
FIN	FINISH(ED)
FIN FLR	FINISHED FLOOR
FL	FLUSH (FLUSHED)
FLR	FLOOR
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM FIRESTOP REINFORCED PANELING
FRT	FIRE RETARDANT TREATED
FRTW	FIRE RETARDANT TREATED WOOD
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRAB BAR / GRADE BEAM
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GRF	GROUND FACE CMU (BURNISHED)
GUT	GUTTER
GYM	GYMNASIUM
GYP	GYPSUM
HB	HOSE BIB
HDWD	HARD WOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTILATION, & A/C
ICF	INSULATED CONCRETE FORMS / INSULATED CONCRETE FORMING
IDF	INTERMEDIATE DISTRIBUTION FRAME
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
JST(S)	JOIST(S)
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
LEPC	LOCAL EMERGENCY PLANNING COMMITTEE
LONG	LONGITUDINAL
LVT	LUXURY VINYL TILE
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MCM	METAL COMPOSITE MATERIAL
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURER
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	METAL WALL PANELS
MPF	MULTI-PURPOSE FACILITY
MSK	MOP SINK
MS	METAL SOFFIT
MSL	MEAN SEA LEVEL
MTL	METAL
NB	NO BASE
NF	NO FINISH
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NATURAL STONE
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANTS / OCCUPANCY
OCEW	ON CENTER EACH WAY
OCD	OVERHEAD COILING DOOR
OCG	OVERHEAD COILING GRILLE
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD
OPP	OPPOSITE
OS	OVERFLOW SCUPPER
PC	PRECAST CONCRETE
PCP	PORTLAND CEMENT PLASTER
PEMB	PRE-ENGINEERED METAL BUILDING
PERIM	PERIMETER
PERP	PERPENDICULAR
PLA	PLATE
PL	PLASTIC LAMINATE
PLP	PLASTIC LAMINATE PANEL SYSTEM
PNT	PAINT
PR	PRACTICE ROOM
PREFN	PREFINISHED
PREP	PREPARATION
PROJ	PROJECTION
PS	PROJECTION SCREEN
PT	POINT
PW	PLYWOOD
QTZ	QUARTZ SURFACING
R	RISER
RAD	RADIUS
RAFF	RESILIENT ATHLETIC FLUID FLOORING
RAFP	RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS	RUBBER FLOORING SHEET
RAFV	RESILIENT ATHLETIC FLOORING VINYL
L	ANGLE
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
RES	RESINOUS
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
RT	RUBBER TILE
RTR	RUBBER TREADS AND RISERS
RTU	ROOFTOP UNIT
SB	SPLASH BLOCK
SCHED	SCHEDULE
SEC	SECURITY
SECT	SECTION
SF	STOREFRONT / SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SP	SPLASH PAN (METAL)
SPEC	SPECIFICATIONS
SPF	SPLIT-FACE CONCRETE MASONRY UNIT
SPS	SOLID POLYMER SURFACE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE
SVT	SOLID VINYL TILE
SYMM	SYMMETRICAL
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TAS	TEXAS ACCESSIBILITY STANDARDS (LATEST VERSION)
TB	TACK BOARD
TC	TILE, CERAMIC
TFIP	INTUMESCENT FIRE PROTECTION
TH	THRESHOLD
TLT	TOILET
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSF	TOP OF METAL STUD FRAMING
TOW	TOP OF WALL
TPC	TILE, PORCELAIN
TQ	TILE, QUARRY
TR	TREATED
TRAN	TRANSVERSE / TRANSPARENT
TRIM	METAL FLASHINGS AND COPINGS
TS	TACKABLE SURFACE
TYP	TYPICAL
TZ	TERRAZZO
TZP	TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT	TERRAZZO TILE
U	URINAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UP	UPHOLSTERY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VSF	VINYL SHEET FLOORING
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WASH	WASH STATION
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER / WALL HYDRANT
WMP	WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS	MASONITE WOOD FLOORING
WOM	WALK-OFF MAT
WOT	WALK-OFF TILE
WP	WORKPOINT
WT	WEIGHT
WWF	WELDED WIRE MESH (FABRIC)
XB	X-BRACING
>=	LARGER THAN OR EQUAL TO
<=	LESS THAN OR EQUAL TO

(NOT ALL ABBREVIATIONS MAY BE USED)

ABBREVIATIONS

VOLUME 01

GENERAL	
G1.11	COVER SHEET - VOLUME 01
G1.12	GENERAL DATA - VOLUME 01
G2.01	CODE ANALYSIS MASTER PLAN - LEVEL 01
G2.02	CODE ANALYSIS MASTER PLAN - LEVEL 02
G2.03	FIRE PROOFING PLAN - SECOND FLOOR ASSEMBLY
G2.04	FIRE PROOFING PLAN - ROOF PLAN
G3.01	ROOF, EXTERIOR WALL, & INTERIOR PARTITION TYPES
G3.02	TYPICAL INTERIOR PARTITION DETAILS
G3.03	TYPICAL INTERIOR PARTITION DETAILS
G3.04	WALL PENETRATIONS - GYP BD
G3.05	WALL PENETRATIONS - ACOUSTICAL
G3.06	WALL PENETRATIONS - CMU
G4.01	TEA COMPLIANCE
G5.01	SCHEDULE OF MATERIALS AND COLORS
G5.02	SCHEDULE OF MATERIALS AND COLORS
CIVIL	
C0.0	COVER SHEET
C0.1	PLAT 1 OF 3
C0.2	PLAT 2 OF 3
C0.3	PLAT 3 OF 3
C0.4	TOPOGRAPHIC SURVEY 1 OF 4 (FOR REFERENCE ONLY)
C0.5	TOPOGRAPHIC SURVEY 2 OF 4 (FOR REFERENCE ONLY)
C0.6	TOPOGRAPHIC SURVEY 3 OF 4 (FOR REFERENCE ONLY)
C0.7	TOPOGRAPHIC SURVEY 4 OF 4 (FOR REFERENCE ONLY)
C1.1	CITY OF TOMBALL GENERAL NOTES
C1.2	GENERAL NOTES
C1.3	OVERALL LAYOUT
C1.4	DEMOLITION PLAN
C2.1	STORM WATER POLLUTION PREVENTION PLAN
C2.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
C3.1	DIMENSION CONTROL & SIGNAGE PLAN (1 OF 2)
C3.2	DIMENSION CONTROL & SIGNAGE PLAN (2 OF 2)
C4.1	GRADING PLAN (1 OF 2)
C4.2	GRADING PLAN (2 OF 2)
C5.1	UTILITY PLAN -WATER & SANITARY (1 OF 2)
C5.2	UTILITY PLAN -WATER & SANITARY (2 OF 2)
C5.3	PLAN & PROFILE - 8" SANITARY SEWER
C6.1	UTILITY PLAN -STORM SEWER (1 OF 2)
C6.2	UTILITY PLAN -STORM SEWER (2 OF 2)
C7.1	DRAINAGE AREA MAP
C7.2	DRAINAGE CALCULATION
C7.3	DRAINAGE SERVICE AREA MAP (FOR REFERENCE ONLY)
C8.1	PAVING DETAILS (1 OF 3)
C8.2	PAVING DETAILS (2 OF 3)
C8.3	PAVING DETAILS (3 OF 3)
C9.1	WATER AND SANITARY SEWER DETAILS (1 OF 2)
C9.2	WATER AND SANITARY SEWER DETAILS (2 OF 2)
C10.1	STORM SEWER DETAILS
C11.1	HARRIS COUNTY EXPRESS REVIEW SHEET
C11.2	HARRIS COUNTY FLOOD CONTROL EXPRESS REVIEW
C12.1	GENERAL NOTES
C12.2	OVERALL SITE PLAN
C13.1	STORM WATER POLLUTION PREVENTION PLAN
C13.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
C14.1	PROPOSED DRIVEWAYS
C15.1	PROPSED LEFT TURN LANE
C16.1	PLAN & PROFILE - 8" SANITARY SEWER
C17.1	HARRIS COUNTY TRAFFIC CONTROL PLAN
C18.1	MISCELLANEOUS DETAILS (1 OF 3)
C18.2	MISCELLANEOUS DETAILS (2 OF 3)
LANDSCAPE	
L1.1	LANDSCAPE PLAN
L1.2	ENLARGEMENT LANDSCAPE PLAN
IRRIGATION	
IR1.1	IRRIGATION PLAN
IR1.2	IRRIGATION SCHEDULES
IR1.3	IRRIGATION DETAILS
ARCHITECTURAL SITE	
AS1.01	OVERALL ARCHITECTURAL SITE PLAN
AS1.02	ENLARGED ARCHITECTURAL SITE PLAN
AS2.01	ENLARGED SITE PLAN & SITE DETAILS
AS2.02	ENLARGED SITE PLAN & SITE DETAILS
AS2.03	FENCE & GATE DETAILS
AS2.04	VEHICULAR GATE DETAILS
AS2.05	DUMPSTER ENCLOSURE & MONUMENT SIGN DETAILS
AS2.06	MISC. SITE DETAILS
STRUCTURAL	
S0.01	GENERAL NOTES
S0.03	AXONOMETRIC 3D VIEW
S1.01	MASTER PLAN - DIMENSION CONTROL - GRIDS
S1.02	MASTER PLAN - DIMENSION CONTROL - FOUNDATION
S1.03	MASTER PLAN - DIMENSION CONTROL - FLOOR & LOW FRAMING PLAN
S1.04	MASTER PLAN - DIMENSION CONTROL - ROOF FRAMING PLAN
S1.05	MASTER PLAN - DEEP FOUNDATION ELEMENTS
S1.06	MASTER PLAN - ANCHOR ROD PLAN
S1.07	MASTER PLAN - FOUNDATION
S1.08	MASTER PLAN - FLOOR FRAMING
S1.09	MASTER PLAN - ROOF FRAMING
S1.10	MASTER PLAN - SITE
S2.01	DEEP FOUNDATION ELEMENTS PLAN - AREA A
S2.02	DEEP FOUNDATION ELEMENTS PLAN - AREA B
S2.03	DEEP FOUNDATION ELEMENTS PLAN - AREA C
S2.04	DEEP FOUNDATION ELEMENTS PLAN - AREA D
S2.05	DEEP FOUNDATION ELEMENTS PLAN - AREA E
S2.06	DEEP FOUNDATION ELEMENTS PLAN - AREA F
S2.07	ANCHOR ROD PLACEMENT PLAN - AREA A
S2.08	ANCHOR ROD PLACEMENT PLAN - AREA B
S2.09	ANCHOR ROD PLACEMENT PLAN - AREA C
S2.10	ANCHOR ROD PLACEMENT PLAN - AREA D
S2.11	ANCHOR ROD PLACEMENT PLAN - AREA E
S2.12	ANCHOR ROD PLACEMENT PLAN - AREA F
S2.13	FOUNDATION PLAN - AREA A
S2.14	FOUNDATION PLAN - AREA B
S2.15	FOUNDATION PLAN - AREA C
S2.16	FOUNDATION PLAN - AREA D
S2.17	FOUNDATION PLAN - AREA E
S2.18	FOUNDATION PLAN - AREA F
S2.19	FOUNDATION PLAN - SITE
S3.01	TYPICAL FOUNDATION DETAILS
S3.02	TYPICAL FOUNDATION DETAILS
S3.03	TYPICAL FOUNDATION DETAILS
S3.04	TYPICAL PERIMETER PEDESTAL AND PILE CAP DETAILS
S3.05	TYPICAL ISOLATED INTERIOR PILE CAP DETAILS
S3.06	FOUNDATION DETAILS
S3.07	FOUNDATION DETAILS
S3.08	SITE FOUNDATION DETAILS
S4.01	MASTER PLAN - STRUCTURAL WALLS
S4.02	ENLARGED WALL PLANS - AREA A & D
S4.03	ENLARGED WALL PLAN - AREA F
S4.04	WALL ELEVATIONS
S4.05	WALL ELEVATIONS
S4.06	WALL ELEVATIONS
S4.07	WALL ELEVATIONS
S5.01	TYPICAL CMU DETAILS
S5.02	TYPICAL CMU DETAILS
S5.03	TYPICAL CMU DETAILS
S5.04	TYPICAL CMU DETAILS
S6.01	FLOOR & LOW ROOF FRAMING PLAN - AREA A
S6.02	FLOOR FRAMING PLAN - AREA B
S6.03	FLOOR & LOW ROOF FRAMING PLAN - AREA C
S6.04	FLOOR FRAMING PLAN - AREA D
S6.05	FLOOR FRAMING PLAN - AREA E
S6.06	ROOF FRAMING PLAN - AREA A
S6.07	ROOF FRAMING PLAN - AREA B
S6.08	ROOF FRAMING PLAN - AREA C
S6.09	ROOF FRAMING PLAN - AREA D
S6.10	ROOF FRAMING PLAN - AREA E
S6.11	LOW ROOF FRAMING PLAN - AREA F
S6.12	HIGH ROOF FRAMING PLAN - AREA F
S6.13	ENLARGED FLOOR FRAMING PLANS
S7.01	TYPICAL FRAMING DETAILS - COLUMNS AND CONNX
S7.02	TYPICAL FRAMING DETAILS - FLOOR
S7.03	TYPICAL FRAMING DETAILS - WALL
S7.04	TYPICAL FRAMING DETAILS - ROOF LOAD SUPPORT
S7.05	TYPICAL FRAMING DETAILS - ROOF
S7.06	TYPICAL FRAMING DETAILS - PLATES
S7.07	TYPICAL FRAMING DETAILS
S7.08	TYPICAL FRAMING DETAILS
S7.09	FRAMING DETAILS
S7.10	FRAMING DETAILS
S7.11	FRAMING SECTIONS
S7.12	FRAMING SECTIONS
S7.13	FRAMING SECTIONS
S7.14	FRAMING SECTIONS
S7.15	FRAMING SECTIONS
S7.16	FRAMING SECTIONS
S7.17	FRAMING SECTIONS
S7.18	FRAMING SECTIONS
S7.19	FRAMING SECTIONS
S7.20	FRAMING SECTIONS
S7.21	FRAMING SECTIONS
S7.22	FRAMING SECTIONS
S8.01	BRACED FRAME DETAILS
S8.02	BRACED FRAME ELEVATIONS
S8.03	BRACED FRAME ELEVATIONS
S8.04	BRACED FRAME ELEVATIONS
S8.05	BRACED FRAME ELEVATIONS
S9.01	NON-LOAD BEARING WALL BRACING DETAILS
S9.02	NON-LOAD BEARING WALL BRACING DETAILS
ARCHITECTURAL	
A1.01	MASTER FLOOR PLAN - LEVEL 1
A1.1A	FLOOR PLAN - LEVEL 1 - AREA A
A1.1B	FLOOR PLAN - LEVEL 1 - AREA B
A1.1C	FLOOR PLAN - LEVEL 1 - AREA C
A1.1D	FLOOR PLAN - LEVEL 1 - AREA D
A1.1E	FLOOR PLAN - LEVEL 1 - AREA E
A1.1F	FLOOR PLAN - LEVEL 1 - AREA F
A1.02	MASTER FLOOR PLAN - LEVEL 2
A1.2B	FLOOR PLAN - LEVEL 2 - AREA B
A1.2C	FLOOR PLAN - LEVEL 2 - AREA C
A1.2D	FLOOR PLAN - LEVEL 2 - AREA D
A1.2E	FLOOR PLAN - LEVEL 2 - AREA E
A1.30	FLOOR PLAN - EQUIPMENT PLATFORMS
A1.31	TOILET ACCESSORIES AND PLUMBING FIXTURES
A1.32	TOILET ROOMS AND COMPARTMENTS
A1.33	ENLARGED PLANS - TOILETS
A1.34	ENLARGED PLANS - STAIRS
A1.35	ENLARGED PLANS - STAIRS
A1.36	ENLARGED PLANS - STAIRS
A1.37	ENLARGED PLANS - LEARNING STAIRS
A1.38	ENLARGED PLANS - LEARNING STAIRS
A1.39	ENLARGED PLANS - LEARNING STAIRS
A1.40	ENLARGED PLANS - RAMPS AND ELEVATORS
A1.41	PLAN DETAILS
A1.42	PLAN DETAILS
A1.43	PLAN DETAILS
A1.44	PLAN DETAILS
A1.45	PLAN DETAILS
A1.49	EXPANSION JOINT DETAILS
A1.50	DIMENSIONAL CONTROL PLAN
A2.01	MASTER REFLECTED CEILING PLAN - LEVEL 01
A2.1A	REFLECTED CEILING PLAN - LEVEL 01 - AREA A
A2.1B	REFLECTED CEILING PLAN - LEVEL 01 - AREA B
A2.1C	REFLECTED CEILING PLAN - LEVEL 01 - AREA C
A2.1D	REFLECTED CEILING PLAN - LEVEL 01 - AREA D
A2.1E	REFLECTED CEILING PLAN - LEVEL 01 - AREA E
A2.1F	REFLECTED CEILING PLAN - LEVEL 01 - AREA F
A2.02	MASTER REFLECTED CEILING PLAN - LEVEL 02
A2.2A	REFLECTED CEILING PLAN - LEVEL 02 - AREA A
A2.2B	REFLECTED CEILING PLAN - LEVEL 02 - AREA B
A2.2C	REFLECTED CEILING PLAN - LEVEL 02 - AREA C
A2.2D	REFLECTED CEILING PLAN - LEVEL 02 - AREA D
A2.2E	REFLECTED CEILING PLAN - LEVEL 02 - AREA E
A2.30	CEILING DETAILS
A2.31	CEILING DETAILS
A3.01	DOORS SCHEDULES
A3.02	INTERIOR STOREFRONT CONFIGURATIONS
A3.03	EXTERIOR STOREFRONT CONFIGURATIONS
A3.04	EXTERIOR STOREFRONT CONFIGURATIONS
A3.05	INTERIOR & EXTERIOR CURTAINWALL CONFIGURATIONS
A3.06	TYP. OPENING FLASHING DETAILS
A3.07	TYP. OPENING FLASHING DETAILS
A3.08	TYP. DETAILS
A3.09	INTERIOR OPENING DETAILS
A3.10	INTERIOR OPENING DETAILS
A3.11	TYP. MASONRY VENEER DETAILS
A3.12	TYP. MASONRY VENEER/CFMF/SF DETAILS
A3.13	TYP. MASONRY VENEER/CMU/SF DETAILS
A3.14	TYP. MASONRY VENEER/CFMF/CW DETAILS
A3.15	TYP. MASONRY VENEER/CMU/CW DETAILS
A3.16	TYP. MASONRY VENEER & METAL PANEL/CFMF/HM DETAILS
A3.17	TYP. MASONRY VENEER/CMU/HM DETAILS
A3.18	TYP. METAL PANEL/CFMF/SF DETAILS
A3.19	TYP. METAL PANEL/CMU/SF DETAILS
A3.20	TYP. METAL PANEL/CFMF/CW DETAILS
A3.21	TYP. EXT. OVERHEAD BI-FOLD DOOR
A4.01	MASTER FINISH PLAN - LEVEL 01
A4.1A	FINISH PLAN - LEVEL 01 - AREA A
A4.1B	FINISH PLAN - LEVEL 01 - AREA B
A4.1C	FINISH PLAN - LEVEL 01 - AREA C
A4.1D	FINISH PLAN - LEVEL 01 - AREA D
A4.1E	FINISH PLAN - LEVEL 01 - AREA E
A4.1F	FINISH PLAN - LEVEL 01 - AREA F
A4.02	MASTER FINISH PLAN - LEVEL 02
A4.2B	FINISH PLAN - LEVEL 02 - AREA B
A4.2C	FINISH PLAN - LEVEL 02 - AREA C
A4.2D	FINISH PLAN - LEVEL 02 - AREA D
A4.2E	FINISH PLAN - LEVEL 02 - AREA E
A4.30	FINISH PLAN - EQUIPMENT PLATFORMS
A4.31	ENLARGED FINISH PLANS
A4.32	INTERIOR ELEVATIONS
A4.33	INTERIOR ELEVATIONS
A4.34	INTERIOR ELEVATIONS
A4.35	INTERIOR ELEVATIONS
A4.36	INTERIOR ELEVATIONS
A4.37	INTERIOR ELEVATIONS
A4.38	INTERIOR ELEVATIONS
A4.39	INTERIOR ELEVATIONS
A4.40	INTERIOR ELEVATIONS
A4.41	INTERIOR ELEVATIONS
A4.42	INTERIOR ELEVATIONS
A4.43	RR ELEVATIONS
A4.44	INTERIOR DETAILS AND TYPICAL INTERIOR FINISH DETAILS
A4.45	INTERIOR FINISH DETAILS
A4.46	INTERIOR FINISH DETAILS
A5.01	EXTERIOR ELEVATIONS - OVERALL
A5.02	EXTERIOR ELEVATIONS
A5.03	EXTERIOR ELEVATIONS
A5.04	EXTERIOR ELEVATIONS
A5.05	EXTERIOR ELEVATIONS
A5.06	EXTERIOR ELEVATION DETAILS
A5.07	EXTERIOR ELEVATION DETAILS
A6.01	BUILDING SECTIONS
A6.02	WALL SECTIONS
A6.03	WALL SECTIONS
A6.04	WALL SECTIONS
A6.05	WALL SECTIONS
A6.06	WALL SECTIONS
A6.07	WALL SECTIONS
A6.08	WALL SECTIONS
A6.09	WALL SECTIONS
A6.10	WALL SECTIONS
A6.11	WALL SECTIONS
A6.12	WALL SECTIONS
A6.13	WALL SECTIONS
A6.14	WALL SECTIONS
A6.15	WALL SECTIONS
A6.16	WALL SECTIONS
A6.17	FOUNDATION DETAILS
A6.18	FOUNDATION DETAILS
A6.19	FOUNDATION DETAILS
A6.20	WALL SECTIONS - BASE FLASHING, ELEVATOR PIT, AND MASONRY DETAILS
A6.21	WALL SECTION DETAILS
A6.22	WALL SECTION DETAILS
A6.23	WALL SECTION DETAILS
A6.24	WALL SECTION DETAILS
A6.25	WALL SECTION DETAILS
A6.26	WALL SECTION DETAILS
A6.27	WALL SECTION DETAILS
A6.28	WALL SECTION DETAILS - ENLARGED
A6.29	WALL SECTION DETAILS - ENLARGED
A6.30	WALL SECTION DETAILS - ENLARGED
A6.31	WALL SECTIONS - STAIR DETAILS
A6.32	WALL SECTIONS - STAIR DETAILS
A6.41	RAILING TYPES AND DETAILS
A7.01	ROOF PLAN
A7.02	ENLARGED PLAN - SKYLIGHT
A7.03	TYPICAL ROOFING DETAILS MOD-BIT
A7.04	TYPICAL ROOFING DETAILS MOD-BIT
A7.05	TYPICAL COMMON ROOFING DETAILS
A7.06	TYPICAL COMMON ROOFING DETAILS
A8.1A	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA A
A8.1B	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA B
A8.1C	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA C
A8.1D	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA D
A8.1E	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA E
A8.1F	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA F
A8.2B	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA B
A8.2C	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA C
A8.2D	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA D
A8.2E	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA E
A8.30	INSTRUMENT STORAGE & LOCKERS
A8.31	CASEWORK LEGENDS AND ELEVATIONS
A8.32	CASEWORK LEGENDS AND ELEVATIONS
A8.33	CASEWORK LEGENDS AND ELEVATIONS
A8.34	MISC MILLWORK DETAILS
A8.36	SIGNAGE TYPES & DETAILS
A8.37	ROOM SIGNAGE SCHEDULE
A9.01	TYPICAL DETAILS
P2.0D	PLUMBING PLAN - BELOW SLAB - AREA D
P2.0E	PLUMBING PLAN - BELOW SLAB - AREA E
P2.0F	PLUMBING PLAN - BELOW SLAB - AREA F
P2.1A	PLUMBING PLAN - LEVEL 01 - AREA A
P2.1B	PLUMBING PLAN - LEVEL 01 - AREA B
P2.1C	PLUMBING PLAN - LEVEL 01 - AREA C
P2.1D	PLUMBING PLAN - LEVEL 01 - AREA D
P2.1E	PLUMBING PLAN - LEVEL 01 - AREA E
P2.1F	PLUMBING PLAN - LEVEL 01 - AREA F
P2.2A	PLUMBING PLAN - LEVEL 02 - AREA A
P2.2B	PLUMBING PLAN - LEVEL 02 - AREA B
P2.2C	PLUMBING PLAN - LEVEL 02 - AREA C
P2.2D	PLUMBING P

INFORMATION PROVIDED FOR CODE COMPLIANCE EVALUATION; NOT TO BE USED FOR BIDDING PURPOSES.

1) PROJECT IDENTIFICATION
A. OWNER: TOMBALL I.S.D.
B. PROJECT NAME: TOMBALL IS REPLACEMENT
C. PHYSICAL ADDRESS: 11211 FM 2920, TOMBALL, TEXAS 77375

2) STUDENT CAPACITY
A. MAXIMUM CAPACITY: 1,210
B. STUDENT CAPACITY (PROJECTED ENROLLMENT): 1,100 STUDENTS
C. GRADES SERVED: 5TH - 6TH GRADES

3) FACULTY & STAFF: 110 (ESTIMATED)

4) APPLICABLE CODES
A. INTERNATIONAL BUILDING CODE (IBC) 2021
B. INTERNATIONAL PLUMBING CODE 2021
C. INTERNATIONAL MECHANICAL CODE 2021
D. NATIONAL ELECTRICAL CODE (NEC) 2023
E. INTERNATIONAL FIRE CODE 2021
F. ELIMINATION OF ARCHITECTURAL BARRIERS ACT; TEXAS DEPT. OF LICENSING AND REGULATION
G. INTERNATIONAL ENERGY CONSERVATION CODE 2021
H. LOCAL AMENDMENTS

5) OCCUPANCY CLASSIFICATION
A. OCCUPANCY: GROUP E
B. SEPARATED USES: NONE
C. INCIDENTAL USE AREAS: RATED PER TABLE 509
D. ACCESSORY OCCUPANCIES

6) TYPE OF CONSTRUCTION / FIRE-RESISTIVE REQUIREMENTS
A. CONSTRUCTION TYPE: I-B

TABLE 601	
BUILDING ELEMENT	TYPE I B
PRIMARY STRUCTURAL FRAME	2***
BEARING WALLS	
EXTERIOR	2
INTERIOR	2*
NON-BEARING WALLS & PARTITIONS (EXTERIOR)	1**
NON-BEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION	2
ROOF CONSTRUCTION & SECONDARY MEMBERS	1.0***

* FIRE RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A **ROOF ONLY**.
** FIRE RATING REQUIRED WHERE FIRE SEPARATION DISTANCE IS LESS THAN 30 FT.
*** ROOF CONSTRUCTION SHALL BE FIRE RATED IF ANY PART OF THE ROOF IS WITHIN 20' OF NEAREST FLOOR LEVEL.

REFER TO STRUCTURAL DRAWINGS FOR LOAD-BEARING WALL DESIGNATIONS. LOAD-BEARING WALL FIRE RATING IS FOR STRUCTURAL INTEGRITY PURPOSES ONLY, NOT FOR FIRE-SEPARATION PURPOSES, THEREFORE NO ASSOCIATED OPENINGS ARE REQUIRED TO BE FIRE-PROTECTED UNLESS REQUIRED TO BE SO BY OTHER CODE PROVISIONS AND/OR AS SHOWN ON THESE DOCUMENTS.

7) FIRE-PROTECTION SYSTEMS
A. AUTOMATIC SPRINKLER SYSTEM: YES
B. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER INTERNATIONAL FIRE CODE
C. FIRE ALARM PROVIDED: YES
D. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED: YES

8) EXIT REQUIREMENTS
A. TRAVEL DISTANCES
1. ALLOWED, SPRINKLERED BUILDING:
TO EXIT FROM WITHIN A SPACE FOR OCCUPANCY LOAD GREATER THAN 50 = 250 FT.
TO EXIT FROM WITHIN BUILDING = 250 FT.
COMMON PATH OF EGRESS TRAVEL = 75 FT.
2. ACTUAL - REFER TO PLAN FOR PATHS & DISTANCE

BUILDING DESIGN CRITERIA

THE EMERGENCY ACCESS LOCK BOX(ES) SHALL BE AS SPECIFIED. REFER TO SPECIFICATIONS SECTION 10 4400. BOTTOM ELEVATION OF BOX SHALL BE 6'-0" ABOVE GROUND LEVEL (VERIFY WITH FIRE MARSHAL)

FIREMAN'S EMERGENCY LOCK BOX(ES)

COUNTY: HARRIS
CLIMATE ZONE: 2A

THE I.E.C.C. ESTABLISHES THE REQUIREMENTS FOR INSULATING THE BUILDING. THE MINIMUM REQUIREMENTS THAT ARE ACCEPTABLE (FOR STANDARD OCCUPIED BUILDINGS) ARE: ROOF= R-25ci (U-0.039), MASS WALLS= R-5.7ci (U-0.151), MTL FRAMED= R-13 + 5ci (U-0.077), FLOORS= R-6.3ci (U-0.107) OR R-30 (U-0.033)

ENERGY CODE R VALUES

1. THIS CODE ANALYSIS PLAN IS PROVIDED AS A TOOL FOR VIEWING THE OVERALL CODE COMPLIANCE FOR THE ENTIRE FACILITY. WHILE STATED U.L. RATINGS REQUIRED THROUGH WALLS MUST BE MET, ALL CONTRACTORS MUST CONSTRUCT THIS FACILITY FROM THE MATERIALS AND IN THE DIMENSIONS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. ANY APPARENT CONFLICT SHALL BE RESOLVED WITH THE ARCHITECT.
2. FIRE RATED WALLS NOT DESIGNED TO EXTEND ABOVE ROOF LEVEL SHALL EXTEND TO THE ROOF DECK WITH U.L. APPROVED CLOSURE TO THE DECK U.N.O.
3. ALL PENETRATIONS OF FIRE RATED WALLS SHALL BE CLOSED WITH CODE APPROVED METHODS AND MATERIALS TO MAINTAIN THE SPECIFIED RATING, INCLUDING FIRE TREATED BLOCKING / PLYWD.
4. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR FIRE AND SMOKE DAMPERS.
5. REFER TO G3 SHEETS FOR TYP WALL CONSTRUCTION DETAILS.
6. SQUARE FOOT (SF) AREAS INDICATED ARE FOR CODE ANALYSIS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AREAS FOR CONSTRUCTION PURPOSES.

CODE ANALYSIS PLAN NOTES

FLOOR ASSEMBLY: UL # D722 (1-4 HR) & UL # D779 (1-4 HR)
ROOF ASSEMBLY: UL # P701
COLUMNS: REF. G2.03 - G2.04 DETAILS
BEAMS: REF. G2.03 - G2.04 DETAILS
FLOOR PERIMETER FIRE CONTAINMENT: UL # CW-D-1015

CONTRACTOR HAS OPTION TO SUBMIT SUBSTITUTE UL DESIGN ASSEMBLIES FOR REVIEW BY ARCHITECT.

TYPICAL UL RATED ASSEMBLY NUMBERS

EGRESS (AUTO-SPRINKLERED)

1. 3'-0" DOOR (32" CLR) AT 0.15" / OCCUPANT = 213 OCCUPANTS
2. 4'-0" DOOR (44" CLR) AT 0.15"/OCCUPANT = 293 OCCUPANTS
3. PAIR OF 3'-0" DOOR (68" CLR) AT 0.15" / OCCUPANT = 453 OCCUPANTS
4. STAIRS (8'-0") (60" APPLICABLE TO EGRESS) AT 0.2"/OCCUPANT = 300 OCCUPANTS
5. PAIR OF 4'-0" DOOR (92" CLR) AT 0.15" / OCCUPANT = 613 OCCUPANTS
6. STAIRS (9'-0") (96" APPLICABLE TO EGRESS) AT 0.2"/OCCUPANT = 480 OCCUPANTS
7. STAIRS (6'-0") (60" APPLICABLE TO EGRESS) AT 0.2"/OCCUPANT = 300 OCCUPANTS
8. 3'-0" GATE (36" CLR) AT 0.2"/OCCUPANT = 180 OCCUPANTS
9. PAIR OF 3'-0" GATES (72" CLR) AT 0.2"/OCCUPANT = 360 OCCUPANTS

EGRESS FACTORS LEGEND

1 HR. FIRE BARRIER
2 HR. FIRE BARRIER
SMOKE RESISTANT PARTITION

WALLS SHALL MEET ALL CODE REQUIREMENTS FOR RATED CONSTRUCTION. WINDOW ASSEMBLIES SHALL COMPLY WITH IBC AND BE U.L. LABELED. DOORS SHALL HAVE CLOSERS, BE U.L. LABELED, AND RATED AS SCHEDULED.

FIRE RATED CONSTRUCTION LEGEND

NEW CONSTRUCTION

PRIMARY OCCUPANCY: GROUP E **TYPE:** I-B
ALLOWABLE HEIGHT: 160 FEET (I-B) (AUTO-SPRINKLERED)
TOTAL HEIGHT PROVIDED: 43' - 10"
ALLOWABLE NUMBER OF STORIES: 6
ALLOWABLE AREA: UNLIMITED SQ. FT.
IN ACCORDANCE WITH TABLE 506.2

TOTAL AREA PROVIDED:
LEVEL 1: 88,700 SQ. FT.
LEVEL 2: 48,150 SQ. FT.
SUB-TOTAL 136,850 SQ. FT.
ROOF OVERHANG: 6,550 SQ. FT.
TOTAL BUILDING AREA: 143,400 SQ. FT.

OCCUPANT LOAD:
LEVEL 1 OCCUPANT LOAD: 2,056 OCCUPANTS
LEVEL 2 OCCUPANT LOAD: 1,021 OCCUPANTS
TOTAL OCCUPANT LOAD: 3,077 OCCUPANTS

EGRESS CAPACITY:
LEVEL 1 REQUIRED: 308 INCHES
LEVEL 1 PROVIDED: 984 INCHES
LEVEL 2 REQUIRED: 153 INCHES
LEVEL 2 PROVIDED: 248 INCHES

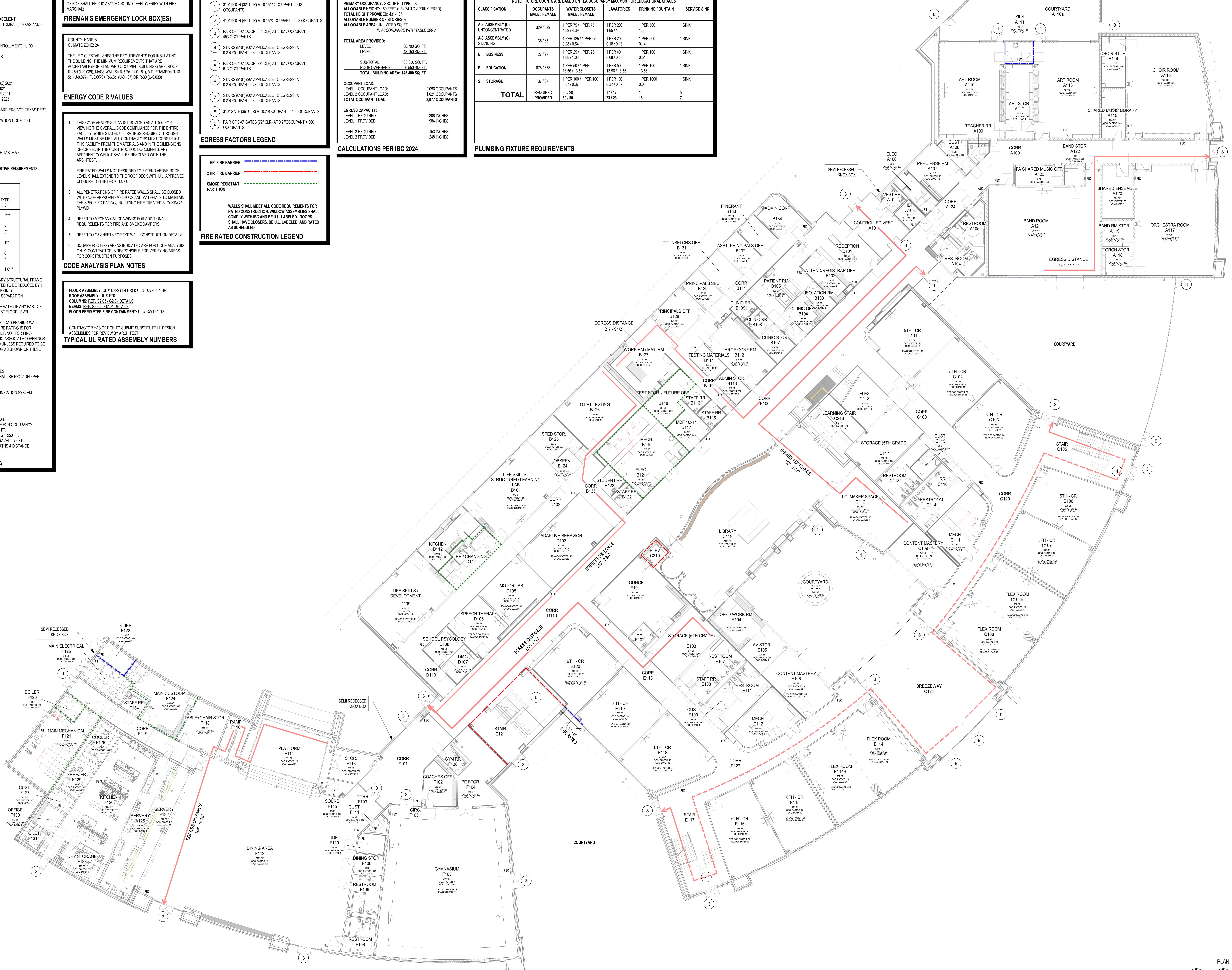
CALCULATIONS PER IBC 2024

TOTAL NO. OF TEA OCCUPANTS = 2,316

NOTE: FIXTURE COUNTS ARE BASED ON TEA OCCUPANCY MAXIMUM FOR EDUCATIONAL SPACES

CLASSIFICATION	OCCUPANTS MALE / FEMALE	WATER CLOSETS MALE / FEMALE	LAVATORIES	DRINKING FOUNTAIN	SERVICE SINK
A-2 ASSEMBLY (U) UNCONCENTRATED	329 / 329	1 PER 75 / 1 PER 75 4.39 / 4.39	1 PER 200 1.65 / 1.65	1 PER 500 1.32	1 SINK
A-3 ASSEMBLY (C) STANDING	35 / 35	1 PER 125 / 1 PER 65 0.28 / 0.54	1 PER 200 0.18 / 0.18	1 PER 500 0.14	1 SINK
B BUSINESS	27 / 27	1 PER 25 / 1 PER 25 1.08 / 1.08	1 PER 40 0.68 / 0.68	1 PER 100 0.54	1 SINK
E EDUCATION	678 / 678	1 PER 50 / 1 PER 50 13.56 / 13.56	1 PER 50 13.56 / 13.56	1 PER 100 13.56	1 SINK
S STORAGE	37 / 37	1 PER 100 / 1 PER 100 0.37 / 0.37	1 PER 100 0.37 / 0.37	1 PER 1000 0.08	1 SINK
TOTAL	REQUIRED PROVIDED	20 / 20 **30 / 30**	17 / 17 **23 / 23**	16 **16**	5 **7**

PLUMBING FIXTURE REQUIREMENTS



1 CODE PLAN ANALYSIS - LEVEL 1
1/16" = 1'-0"

TRUE
PLAN

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Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29654 STATE OF TEXAS
7/15/2026

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CODE ANALYSIS MASTER PLAN - LEVEL 01

VOLUME 01

Job No. 00802-04-01
Drawn By: CB, KR
Date: 07.15.26
Sheet No. G2.01

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EGRESS (AUTO-SPRINKLERED)

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9. PAIR OF 3'-0" GATES (72" CLR) AT 0.2"/OCCUPANT = 360 OCCUPANTS

EGRESS FACTORS LEGEND

1 HR. FIRE BARRIER

2 HR. FIRE BARRIER

SMOKE RESISTANT PARTITION

WALLS SHALL MEET ALL CODE REQUIREMENTS FOR RATED CONSTRUCTION. WINDOW ASSEMBLIES SHALL COMPLY WITH IBC AND BE U.L. LABELED. DOORS SHALL HAVE CLOSERS, BE U.L. LABELED, AND RATED AS SCHEDULED.

FIRE RATED CONSTRUCTION LEGEND



1 CODE PLAN ANALYSIS - LEVEL 2
1/16" = 1'-0"

PLAN TRUE NORTH

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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CODE ANALYSIS MASTER PLAN - LEVEL 02

VOLUME 01

Job No.	Sheet No.
00802-04-01	G2.02
Drawn By: CB, KR	
Date: 07.15.26	

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FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. FIRE RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

2-HR SPRAY FIREPROOF PRIMARY STRUCTURAL FRAMING AND FLOOR CONSTRUCTION (FRAMING AND DECK) WITH UL-COMPLIANT SPRAY-APPLIED FIREPROOFING (CEMENTITIOUS)

1-HR SPRAY FIREPROOF PRIMARY STRUCTURAL FRAMING AND ROOF CONSTRUCTION (FRAMING AND DECK) WITH UL-COMPLIANT SPRAY-APPLIED FIREPROOFING (CEMENTITIOUS)

THIN FILM INTUMESCENT PAINT FIREPROOFING - PRIMARY STRUCTURAL FRAMING AS NOTED: UL # Y634

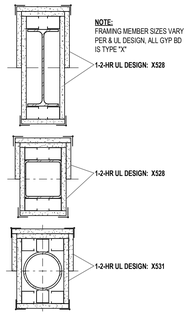
TFIP

2-HR RATED FLOOR ASSEMBLY: UL # D779

TYP FIREPROOFING NOTES

1. AT TYPE I-B CONSTRUCTION, ALL COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBERS THROUGHOUT THE BUILDING SHALL BE PROTECTED AS INDICATED ABOVE.
2. AT TYPE I-B CONSTRUCTION ALL ROOF ASSEMBLIES (INCLUDING DECK AND OTHER SECONDARY MEMBERS) SHALL BE PROTECTED WITH FIREPROOFING AS INDICATED ABOVE.
3. CONTRACTOR HAS OPTION TO SUBMIT ALTERNATIVE UL ASSEMBLIES (CEMENTITIOUS) FOR REVIEW BY ARCHITECT.

IN ALL MULTI-STORY CONSTRUCTION, ALL FLOOR PENETRATIONS SHALL BE CLOSED WITH CODE APPROVED METHODS AND MATERIALS TO PREVENT DRAFTS BETWEEN FLOOR LEVELS.

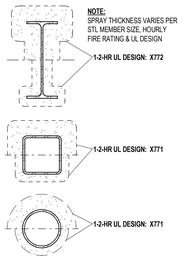


NOTE:
FRAMING MEMBER SIZES VARY PER R & UL DESIGN, ALL GYP BD IS TYPE "X"

1-2-HR UL DESIGN: X528

1-2-HR UL DESIGN: X528

1-2-HR UL DESIGN: X531

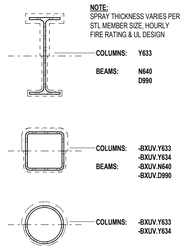


NOTE:
SPRAY THICKNESS VARIES PER STL MEMBER SIZE, HOURLY FIRE RATING & UL DESIGN

1-2-HR UL DESIGN: X772

1-2-HR UL DESIGN: X771

1-2-HR UL DESIGN: X771



NOTE:
SPRAY THICKNESS VARIES PER STL MEMBER SIZE, HOURLY FIRE RATING & UL DESIGN

COLUMNS: Y633

BEAMS: N640
D990

COLUMNS: -BXUV.Y633
-BXUV.Y634

BEAMS: -BXUV.N640
-BXUV.D990

COLUMNS: -BXUV.Y633
-BXUV.Y634

PLAN
N
TRUE

1 FIRE PROOFING PLAN - LEVEL 2
1/16" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29
7/15/2026

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FIRE PROOFING PLAN - SECOND FLOOR ASSEMBLY

VOLUME 01

Job No.	Sheet No.
00802-04-01	G2.03
Drawn By: CB	
Date: 07.15.26	

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FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY

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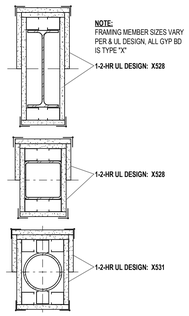
2-HR SPRAY FIREPROOF PRIMARY STRUCTURAL FRAMING AND FLOOR CONSTRUCTION (FRAMING AND DECK) WITH UL-COMPLIANT SPRAY-APPLIED FIREPROOFING (CEMENTITIOUS)

1-HR SPRAY FIREPROOF PRIMARY STRUCTURAL FRAMING AND ROOF CONSTRUCTION (FRAMING AND DECK) WITH UL-COMPLIANT SPRAY-APPLIED FIREPROOFING (CEMENTITIOUS)

THIN FILM INTUMESCENT PAINT FIREPROOFING - PRIMARY STRUCTURAL FRAMING AS NOTED: UL # Y634

TFIP

2-HR RATED FLOOR ASSEMBLY: UL # D779

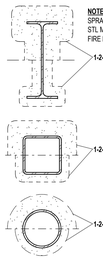


NOTE:
FRAMING MEMBER SIZES VARY PER & UL DESIGN. ALL GYP BD IS TYPE "X"

1-2-HR UL DESIGN: X528

1-2-HR UL DESIGN: X528

1-2-HR UL DESIGN: X531

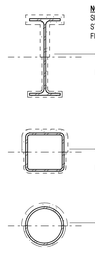


NOTE:
SPRAY THICKNESS VARIES PER STL MEMBER SIZE, HOURLY FIRE RATING & UL DESIGN

1-2-HR UL DESIGN: X772

1-2-HR UL DESIGN: X771

1-2-HR UL DESIGN: X771



NOTE:
SPRAY THICKNESS VARIES PER STL MEMBER SIZE, HOURLY FIRE RATING & UL DESIGN

COLUMNS: **Y633**

BEAMS: **N640**
D990

COLUMNS: **-BXUV.Y633**
-BXUV.Y634

BEAMS: **-BXUV.N640**
-BXUV.D990

COLUMNS: **-BXUV.Y633**
-BXUV.Y634

TYP FIREPROOFING NOTES

1. AT TYPE I-B CONSTRUCTION, ALL COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBERS THROUGHOUT THE BUILDING SHALL BE PROTECTED AS INDICATED ABOVE.
2. AT TYPE I-B CONSTRUCTION ALL ROOF ASSEMBLIES (INCLUDING DECK AND OTHER SECONDARY MEMBERS) SHALL BE PROTECTED WITH FIREPROOFING AS INDICATED ABOVE.
3. CONTRACTOR HAS OPTION TO SUBMIT ALTERNATIVE UL ASSEMBLIES (CEMENTITIOUS) FOR REVIEW BY ARCHITECT.

IN ALL MULTI-STORY CONSTRUCTION, ALL FLOOR PENETRATIONS SHALL BE CLOSED WITH CODE APPROVED METHODS AND MATERIALS TO PREVENT DRAFTS BETWEEN FLOOR LEVELS.

1 FIRE PROOFING PLAN - ROOF PLAN
1/16" = 1'-0"

PLAN
N
TRUE

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29814
7/15/2026

Huckabee
www.huckabee-inc.com
800.687.1229

FIRE PROOFING PLAN - ROOF PLAN

VOLUME 01

Job No. 03802-04-01	Sheet No. G2.04
Drawn By: CB	
Date: 07.15.26	

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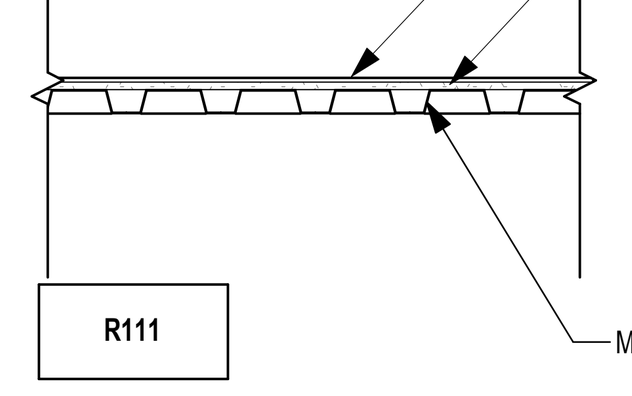
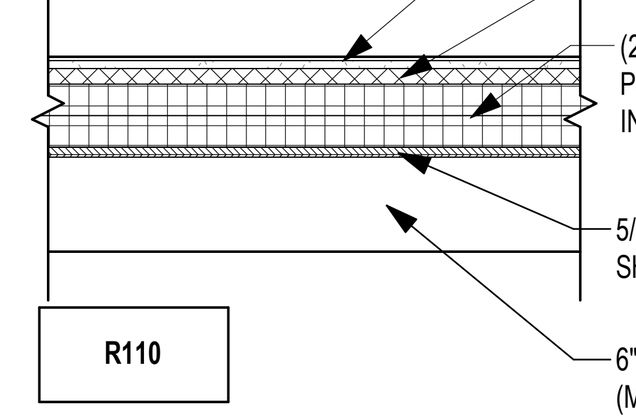
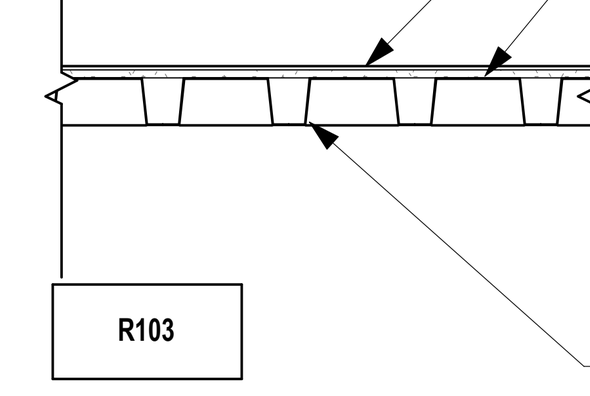


R111

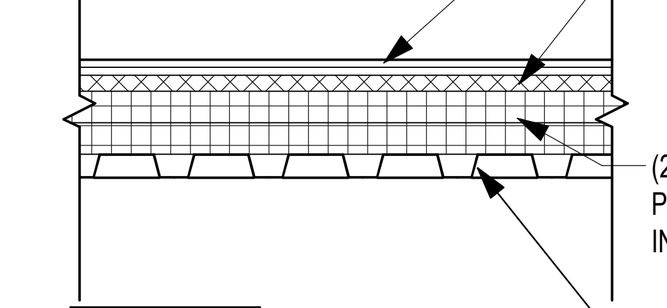
NOTE: ONLY USED WHEN ROOF IS NOT PART OF THERMAL/WEATHER BARRIER



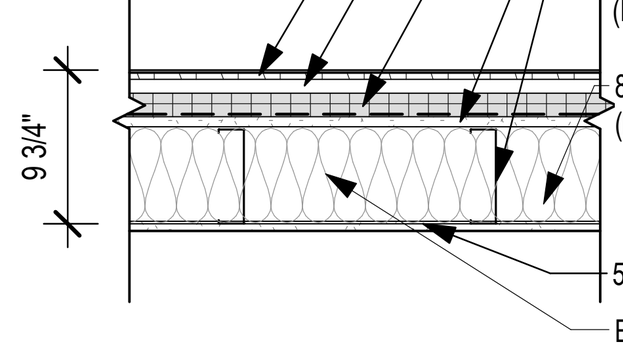
R110



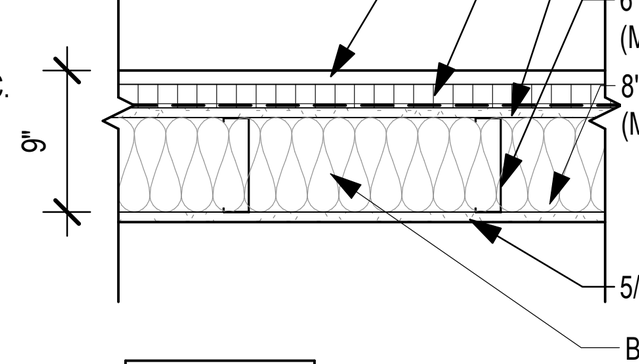
R103



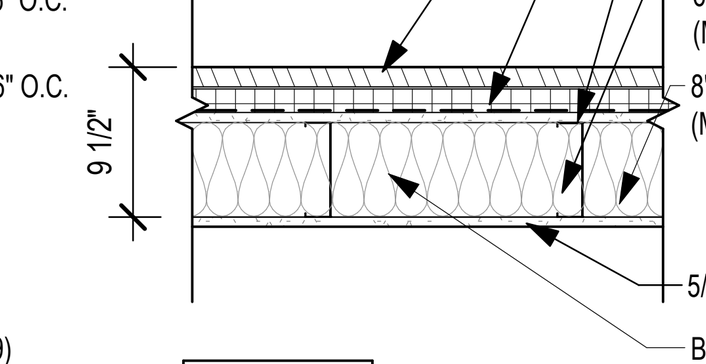
R100



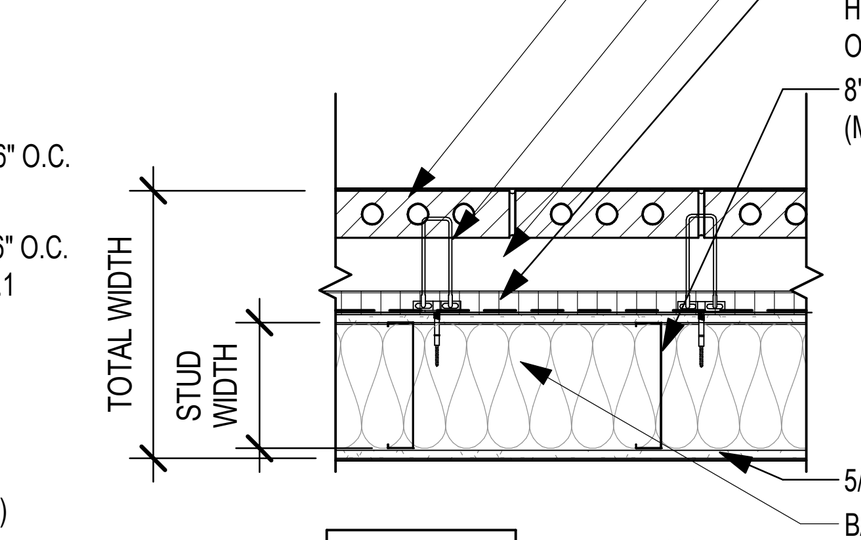
W108	
W108.1	8" C.F.M.F. STUDS
W109	NO RIGID INSULATION BOARD
W109.1	8" C.F.M.F. STUDS NO RIGID INSULATION BOARD



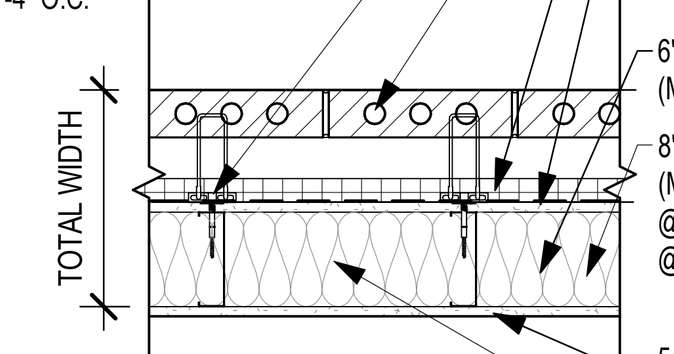
W105	
W105.1	8" C.F.M.F. STUDS
W106	NO RIGID INSULATION BOARD



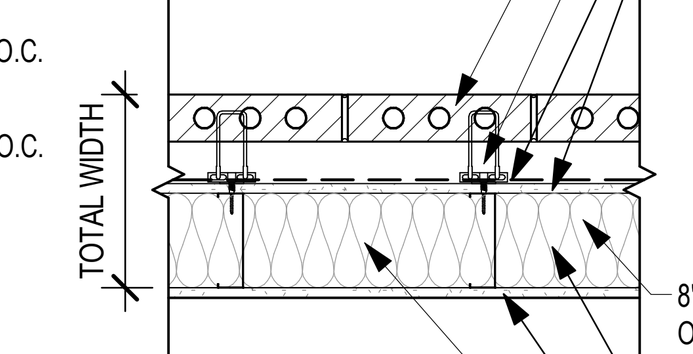
W103	
W103.1	8" C.F.M.F. STUDS
W104	NO RIGID INSULATION BOARD
W104.1	8" C.F.M.F. STUDS NO RIGID INSULATION BOARD



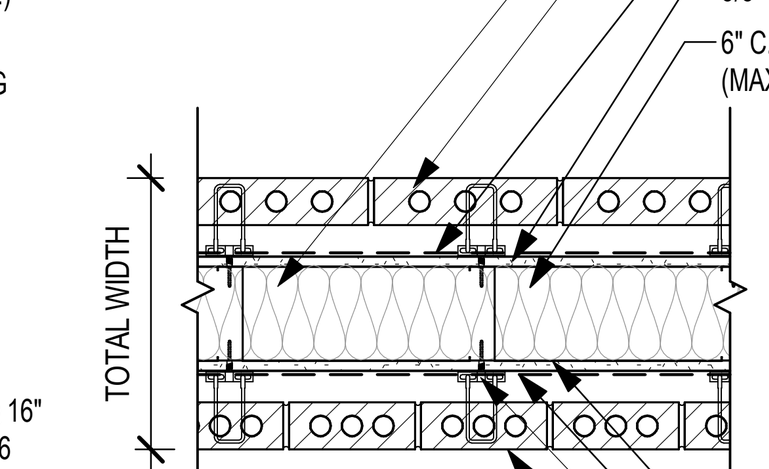
W102-E	WALL TYPE 102-E
W102.5E	MASONRY VENEER - FACE BRICK BRK01
W102.6E	MASONRY VENEER - STONE CSUM01



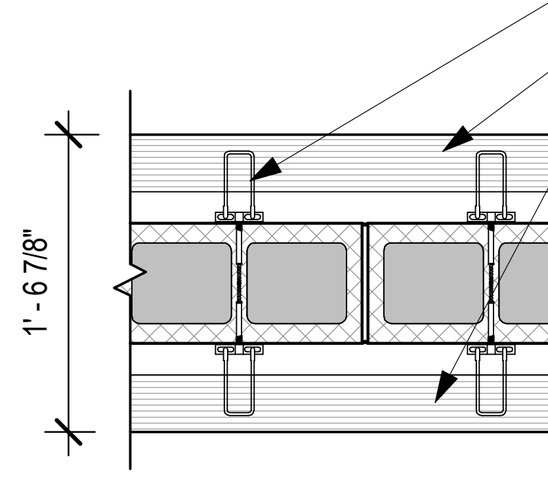
W102	WALL TYPE 102
W102.1 W102.5	MASONRY VENEER - FACE BRICK BRK02 @ W102.1B / W102.5B BRK01 @ W102.1C W102.5C
W102.1E	MASONRY VENEER - FACE BRICK BRK01 NO RIGID INSULATION BOARD
W102.2 W102.6 W102.7	MASONRY VENEER - STONE 10" C.F.M.F. STUDS
W102.3	IN-LIEU OF 5/8" GYP. BOARD, PROVIDE 1/4" & 3/8" GYP. BOARD
W102.3A	MASONRY VENEER - STONE NO RIGID INSULATION BOARD



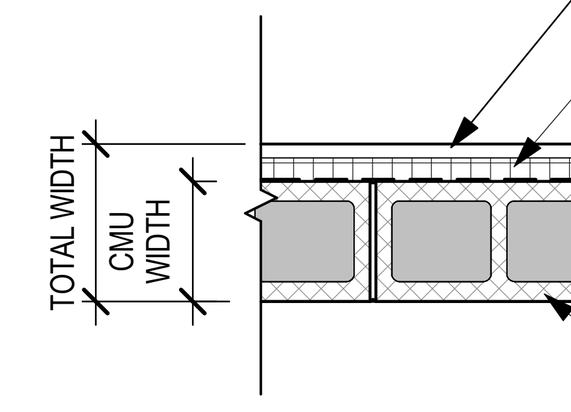
W101	WALL TYPE 101
W101.1	MASONRY VENEER - FACE BRICK
W101.2 W101.6	MASONRY VENEER - STONE



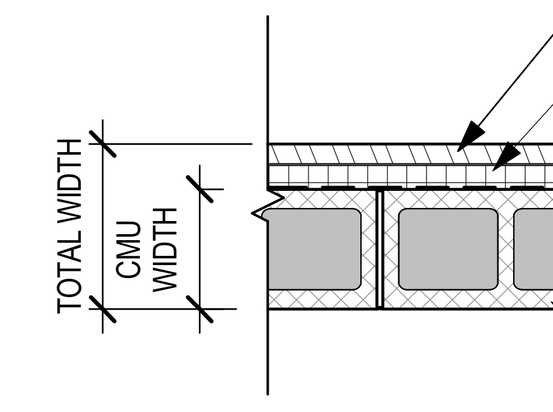
W100	WALL TYPE 100
W100.1	MASONRY VENEER - FACE BRICK
W100.2	MASONRY VENEER - STONE



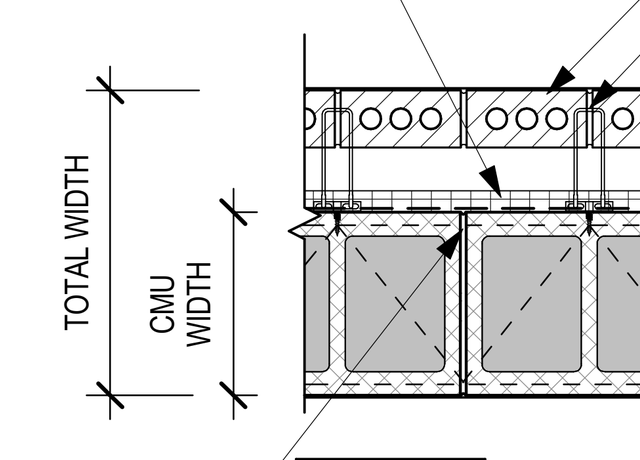
W206.1A	MASONRY VENEER - BRICK
W206.1B	MASONRY VENEER - STONE



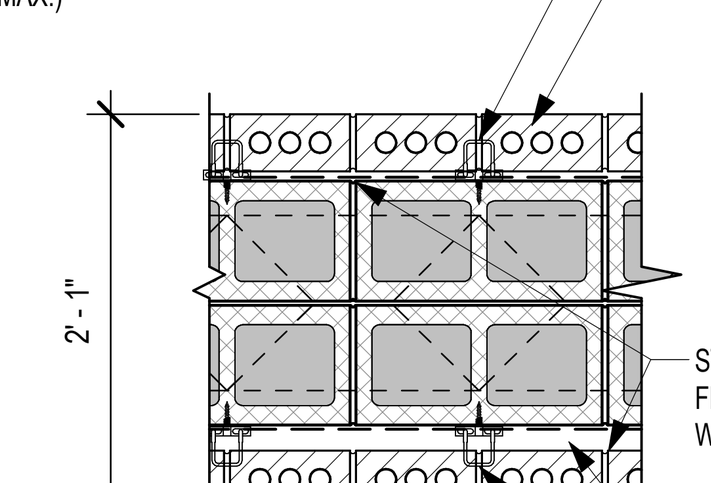
W205 W205.1	8" CMU @ W205 12" CMU @ W205.1



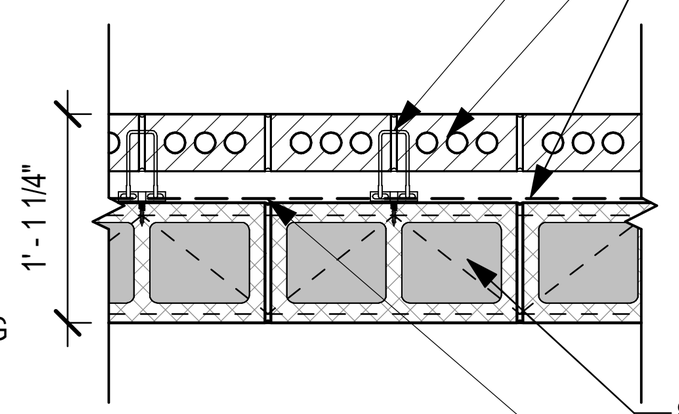
W203 W203.1	8" CMU @ W203 12" CMU @ W203.1
W204.1	12" NO RIGID INSULATION BOARD



W202	WALL TYPE 202
W202.1B W202.5B	MASONRY VENEER - BRK02 8" CMU @ W202.1B 12" CMU @ W202.5B
W202.1C W202.5C	MASONRY VENEER - BRK01 8" CMU @ W202.1C 12" CMU @ W202.5C
W202.2 W202.6	MASONRY VENEER - CSMU01 8" CMU @ W202.2 12" CMU @ W202.6



W201	WALL TYPE 201
W201.1	MASONRY VENEER - FACE BRICK
W201.2	MASONRY VENEER - STONE



W200	WALL TYPE 200
W200.1	MASONRY VENEER - FACE BRICK
W200.2	MASONRY VENEER - STONE

INTERIOR & EXTERIOR PARTITION TYPE LEGEND

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

- D — WALL TO **D**ECK / STRUCTURE
- C — WALL TO 6" (MIN.) ABOVE **C**EILING
- FR — **F**IRE **R**ATED WALL TO DECK / STRUCTURE
- AD — **A**COUSTICAL WALL TO **D**ECK / STRUCTURE
- AC — **A**COUSTICAL WALL TO 6" (MIN.) ABOVE **C**EILING
- AR — **A**COUSTICAL **R**ATED WALL TO DECK / STRUCTURE
- GD — **G**YP WALL ABOVE TO **D**ECK / STRUCTURE
- SR — **S**MOKE **R**ESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

EXTERIOR WALL TYPE TAGS

W200 — WALL ASSEMBLY IN SECTION VIEW

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

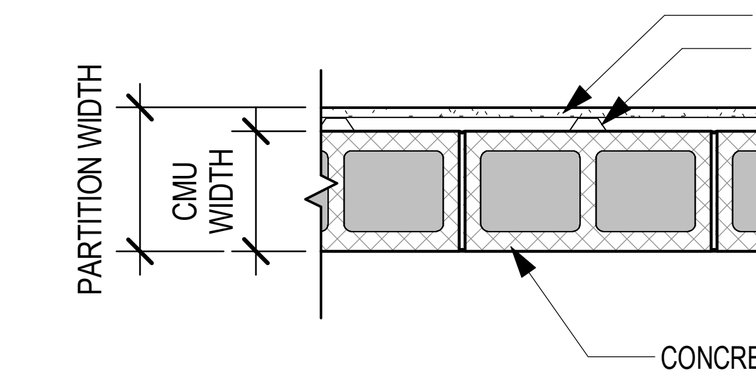
NOTE: AIR SPACE CAVITY IN ALL EXTERIOR MASONRY VENEER WALLS MUST BE 2" MINIMUM CLEAR

WALL / PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL",** AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   MASONRY (EXTENDS TO 4" ABOVE CEILING OR TO NEAREST 8" COURSING ABOVE 4" U.N.O.)
   WALLS/PARTITIONS - TYPE **A8**, NON-ACOUSTICAL
   COLUMN FURRING - TYPE **A6**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
3. WALL TYPES IDENTIFIED AS CMU MAY INCLUDE ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU FROM ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.) AND IDENTIFY WHICH SIDE OF A SINGLE WYTHE ACMU WALL IS THE FINISH SIDE.
4. WALL/PARTITION TYPES IDENTIFIED AS INCLUDING VENEER MAY INCLUDE BRICK, STONE, OR ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU, BRICK, STONE, OR ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.)
5. WALL/PARTITIONS INDICATED BY TAG "GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WALL/PARTITIONS INDICATED BY TAG "ACOUSTICAL GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO A ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) WITH BATT INSULATION SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WHERE INDICATED BY THE FIRE CODE PLAN TO BE FIRE RATED, ALL CONNECTIONS SHALL MEET RATING REQUIREMENTS.
6. FIRE-RATED WALL/PARTITIONS ARE INDICATED ON THE FIRE CODE PLANS ON THE G2 SHEETS. ALL GYP BOARD IN A RATED ASSEMBLY MUST BE 5/8" TYPE "X" AND CONSTRUCTION MUST MATCH THE ASSIGNED UL NUMBER. REFERENCE THE TYPE SCHEDULES ON THIS SHEET FOR UL NUMBERS WHERE APPLICABLE. SUBSTITUTE UL ASSEMBLIES MAY BE PRESENTED FOR THE CONSIDERATION OF THE ARCHITECT , BUT MUST NOT BE USED UNLESS APPROVED IN WRITING. PARTITIONS NOT IDENTIFIED AS RATED SHALL BE BUILT WITH STANDARD GYP BOARD.
7. WHERE FIRE-RATED MASONRY WALL/PARTITIONS ARE INDICATED TO EXTEND TO DECK, ANY VENEER OR ACMU MAY TERMINATE ABOVE CEILING LEVEL. THE CMU WALL/PARTITION SHALL EXTEND TO DECK WITH REGULAR CMU OF SAME THICKNESS AS THE CMU (OR ACMU) IN THE WALL ASSEMBLY.
8. ALL ACOUSTICAL GYP BD WALL/PARTITIONS REQUIRE HIGHER QUALITY CONSTRUCTION AND SHALL BE FULL HEIGHT SOUND ATTENUATING BATT INSULATION. IN ORDER TO ACHIEVE THE INDICATED STC RATING, ALL WALL/PARTITIONS ARE TO HAVE ALL PIN HOLES & VOIDS, PIPES, DUCTS, CONDUITS, ETC ACOUSTICALLY FILLED ON BOTH SIDES. ALL WALL BOXES ON BOTH SIDES OF WALL/PARTITION ARE TO HAVE ACOUSTICAL PUTTY PADS ON THE INTERIOR SIDE AS DETAILED. BOTH SIDES OF WALL/PARTITION SHALL BE SEALED TIGHT TO DECK AS DETAILED. THE FLOOR TRACK SHALL BE SET ON AN ACOUSTICAL ISOLATOR PAD.
9. ALL ACOUSTICAL CMU WALL/PARTITIONS REQUIRE A HIGHER QUALITY CONSTRUCTION, SHALL BE NORMAL WEIGHT CMU BLOCK, EXTEND TO DECK AND HAVE FULL HEAD JOINTS. ALL PENETRATIONS SHALL BE ACOUSTICALLY SEALED ON BOTH SIDES OF WALL. MORTAR JOINTS TO BE FILLED W/ NO PIN HOLES OR VOIDS. HEAD OF WALL SHALL BE SEALED TIGHT TO DECK AS DETAILED.
10. ALL COLD FORM METAL FRAMING ARE SUBJECT TO THE DESIGN OF A QUALIFIED STRUCTURAL ENGINEER. FINAL DETERMINATION OF GAUGE AND DIMENSIONS OF FRAMING WILL BE DETERMINED BY STRUCTURAL DESIGN. ENGINEERS RECOMMENDATIONS WHICH WOULD SIGNIFICANTLY IMPACT WALL THICKNESS MUST BE COORDINATED WITH THE ARCHITECT FOR ALIGNMENT PRIOR TO CONSTRUCTION.
11. REFER TO TYPICAL INTERIOR WALL/PARTITION BRACING DETAILS FOR ADDITIONAL INFORMATION REGARDING FLOOR AND DECK CONNECTIONS. FIRE-RATED WALLS SHALL USE FIRE STOPPING SEALANTS OR ASSEMBLIES WHERE THE WALL/PARTITION ABUTS THE DECK, INCLUDING MINERAL WOOL INSULATION WHERE APPLICABLE. NON-RATED PARTITIONS SHALL USE ACOUSTICAL SEALANTS AND INSULATION WHERE THE WALL/PARTITION ABUTS THE DECK.
12. FOR ANY DISCREPANCY BETWEEN WALL/PARTITION TYPES AND WALL SECTIONS, WALL SECTION SHALL SUPERCEDE.
13. NOT ALL WALL/PARTITION TYPES SHOWN WILL BE USED.

WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
B8	7 5/8"	9 1/8"	2HR	U905	47	54
B12	11 5/8"	1' - 1 1/8"	2HR	U905	51	59
BN8	7 5/8"	9 1/8"	2HR	U905	47	54
BN12	11 5/8"	1' - 1 1/8"	2HR	U905	51	59

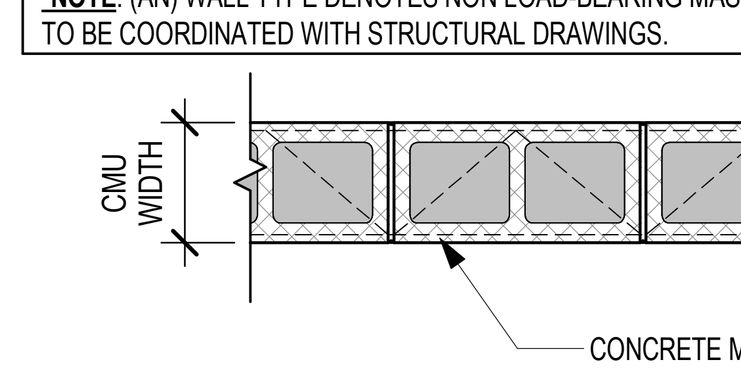
***NOTE**: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.
***NOTE**: (AN) WALL TYPE DENOTES NON LOAD-BEARING MASONRY WALLS. LOCATIONS TO BE COORDINATED WITH STRUCTURAL DRAWINGS.



B — **GYP. BD. FURRING ON CMU**

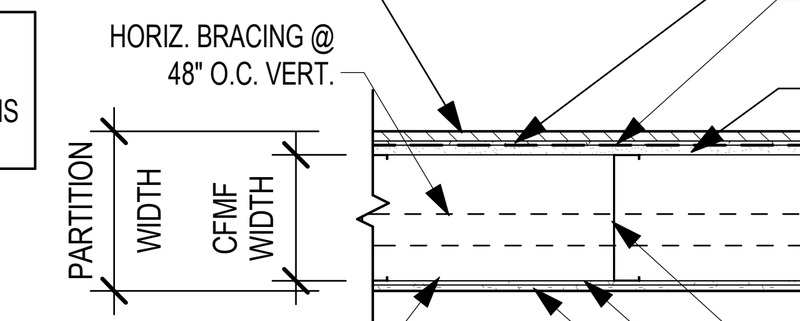
WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
A6	5 5/8"	5 5/8"	1HR	U905	45	50
A8	7 5/8"	7 5/8"	2HR	U905	47	54
A12	11 5/8"	11 5/8"	2HR	U905	51	59
AN8	7 5/8"	7 5/8"	2HR	U905	47	54
AN12	11 5/8"	11 5/8"	2HR	U905	51	59

***NOTE**: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.
***NOTE**: (AN) WALL TYPE DENOTES NON LOAD-BEARING MASONRY WALLS. LOCATIONS TO BE COORDINATED WITH STRUCTURAL DRAWINGS.



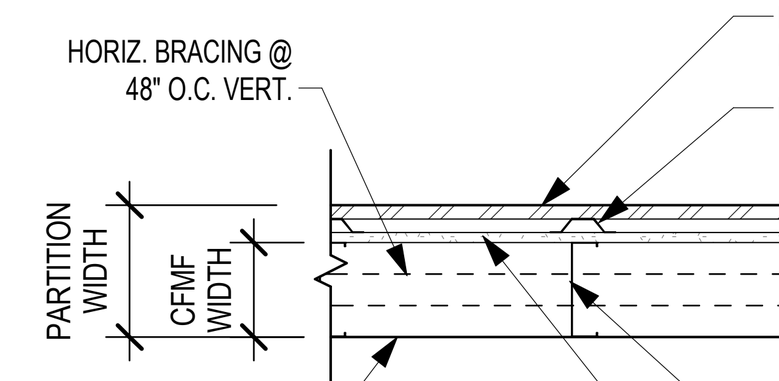
A — **SINGLE-WYTHE CMU**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
AB6	6"	8 1/8"	--	--	--	34
AB8	8"	10 1/8"	--	--	--	34
AB12	12"	14 1/8"	--	--	--	34



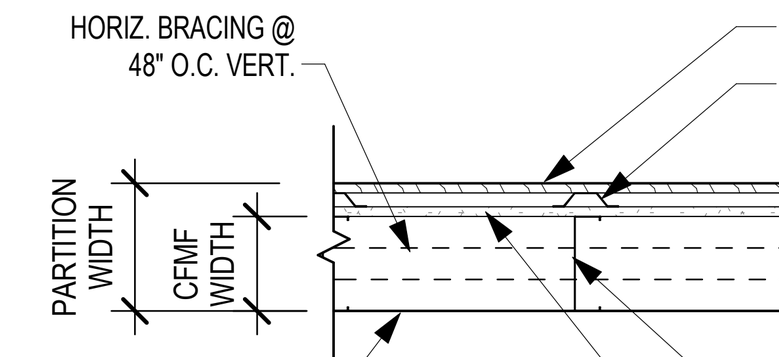
AB — **MASONRY VENEER ON BACKER BD.FURRING**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
AA4	3 5/8"	6"	--	--	--	34
AA6	6"	8 3/8"	--	--	--	34



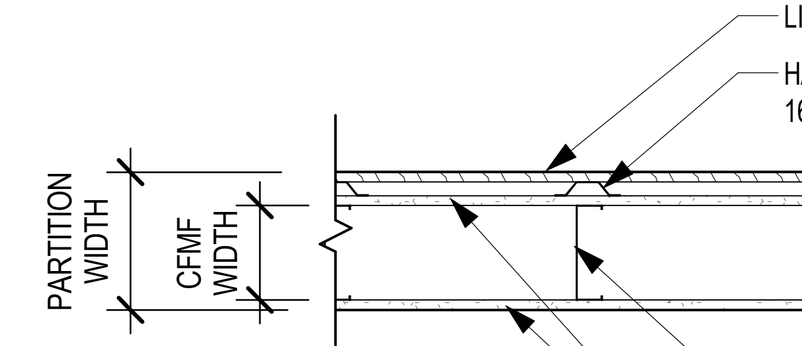
AA — **METAL PANEL ON GYP. BD. FURRING**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
Z4	3 5/8"	5 3/4"	--	--	--	34
Z6	6"	8 1/8"	--	--	--	34



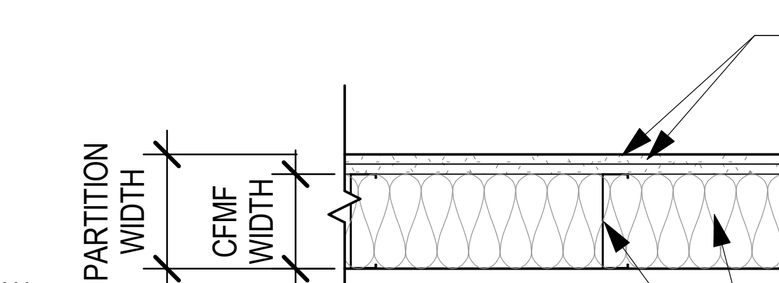
Z — **WOOD ON GYP. BD. FURRING**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
Y4	3 5/8"	6 3/8"	--	--	40	44
Y6	6"	8 5/8"	--	--	40	44



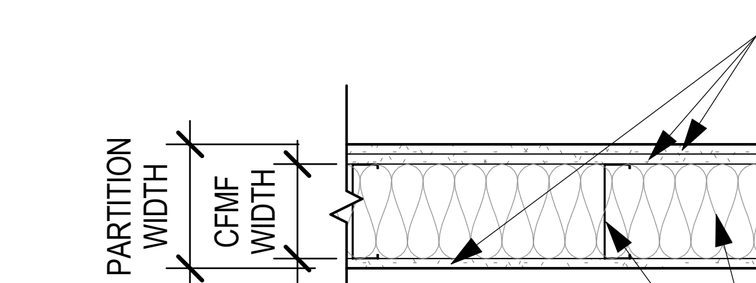
Y — **WOOD FURRING ON CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
T4	3 5/8"	4 7/8"	--	U419; U465	--	38
T6	6"	7 1/4"	--	U411; U419	--	38



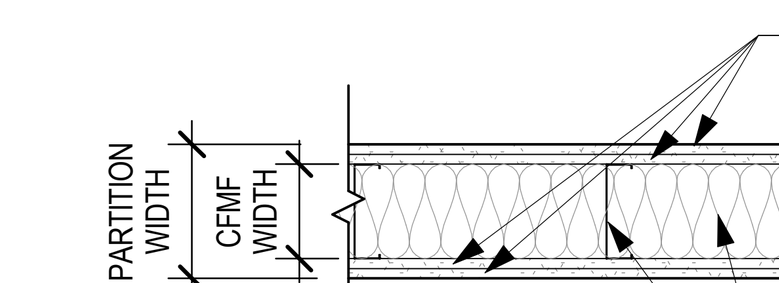
T — **GYP. BD. ON CFMF - SOUND ASSY.**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
S4	3 5/8"	5 1/2"	--	U419; U465	--	46
S6	6"	7 7/8"	--	U411; U419	--	46



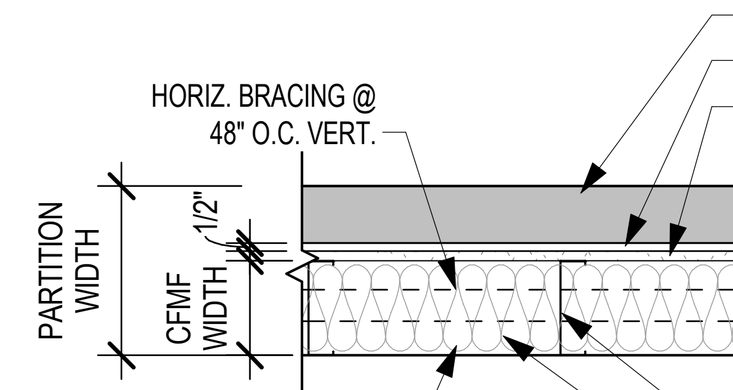
S — **GYP. BD. ON CFMF - SOUND ASSY.**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
R4	3 5/8"	6 1/8"	--	U419; U465	--	50
R6	6"	8 1/2"	--	U411; U419	--	50



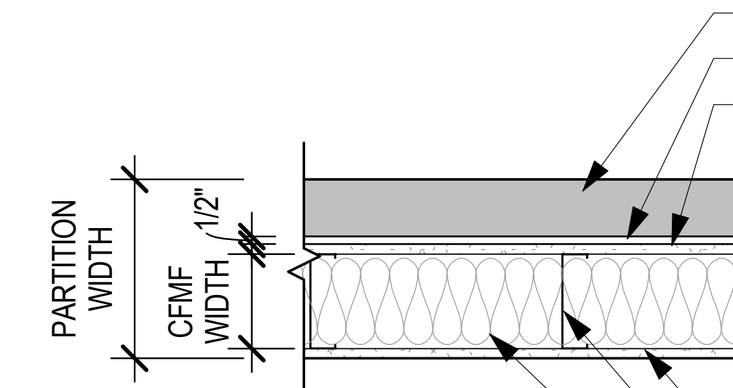
R — **GYP. BD. ON CFMF - SOUND ASSY.**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	IBC (PRESCRIPTIVE FIRE RESISTANCE) TABLE 721.1	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
P4	3 5/8"	8 3/8"	1-2 HR	REF. IBC 721.1(2)	--	34
P6	6"	10 3/4"	1-2 HR	REF. IBC 721.1(2)	--	34



P — **MASONRY VENEER ON GYP. BD. FURRING**

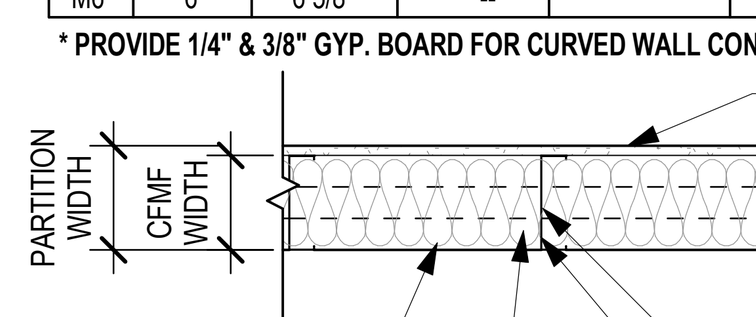
WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	IBC (PRESCRIPTIVE FIRE RESISTANCE) TABLE 721.1	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
N4	3 5/8"	9"	1-2 HR	REF. IBC 721.1(2)	40	44
N6	6"	11 3/8"	1-2 HR	REF. IBC 721.1(2)	40	44
N8	8"	1' - 1 3/8"	1-2 HR	REF. IBC 721.1(2)	40	44



N — **MASONRY VENEER ON CFMF**

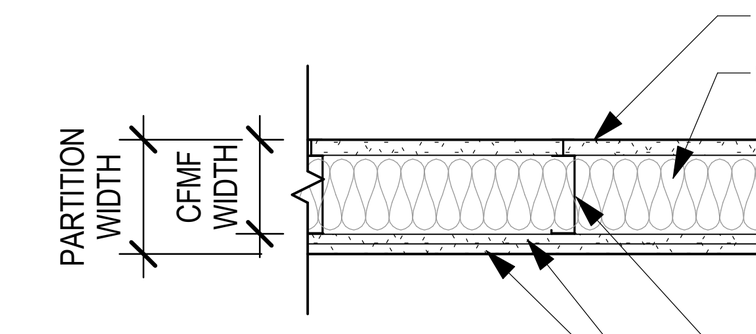
WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
M1	7/8"	1 1/2"	--		--	34
M2	1 5/8"	2 1/4"	--		--	34
M3	2 1/2"	3 1/8"	--		--	34
M4	3 5/8"	4 1/4"	--		--	34
M4r *	3 5/8"	4 1/4"	--		--	34
M6	6"	6 5/8"	--		--	34

* PROVIDE 1/4" & 3/8" GYP. BOARD FOR CURVED WALL CONDITION



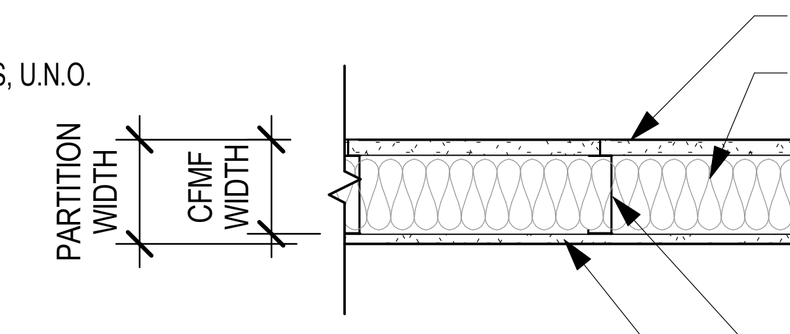
M — **GYP. BD. FURRING ON CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
L3	2 1/2"	3 3/4"	2 HR	U415	40	51
L4	4"	5 1/4"	2 HR	U415	40	51
L6	6"	7 1/4"	2 HR	U415	40	51



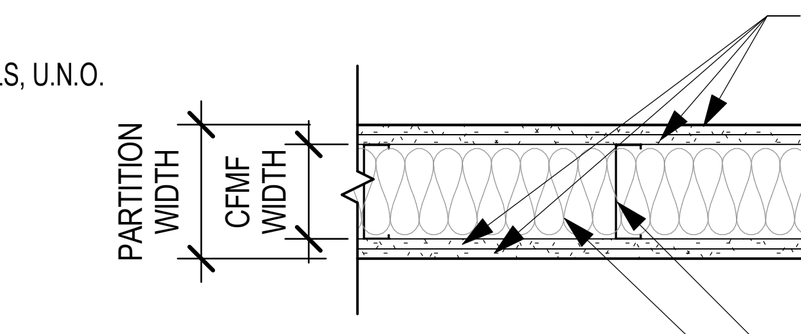
L — **GYP. BD. ON SHAFT LINER**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
K3	2 1/2"	3 1/8"	1 HR	U415	37	48
K4	4"	4 5/8"	1 HR	U415	37	48
K6	6"	6 5/8"	1 HR	U415	37	48



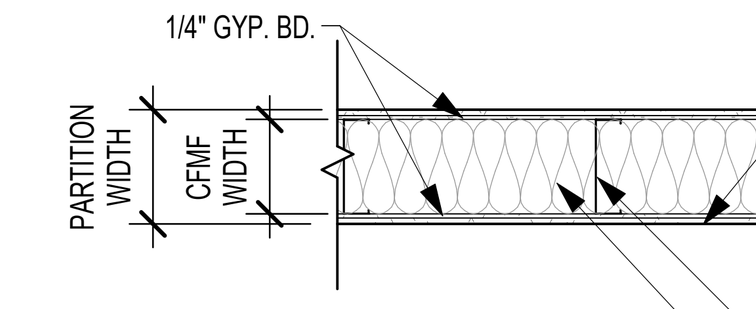
K — **GYP. BD. ON SHAFT LINER**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
J4	3 5/8"	6 1/8"	2 HR	U411; U419	45	53
J6	6"	8 1/2"	2 HR	U411; U419	45	53



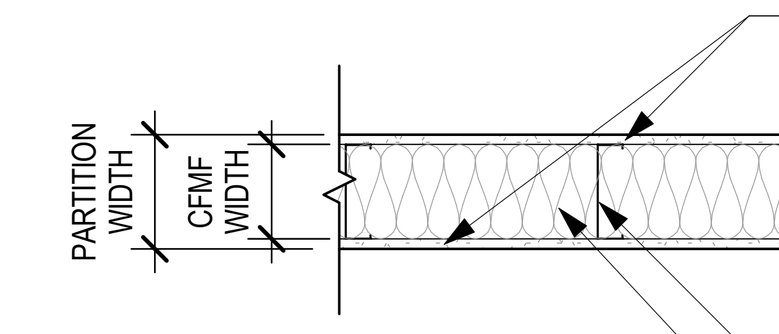
J — **GYP. BD. ON CFMF - FIRE RATED**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
I4	3 5/8"	4 7/8"	--	U419; U465	40	44
I4	3 5/8"	4 7/8"	1 HR	U419; U465	40	44
I6	6"	7 1/4"	--	U419; U465	40	44
I6	6"	7 1/4"	1 HR	U419; U465	40	44
I8	8"	9 1/4"	1 HR	U419; U465	40	44
I10	10"	11 1/4"	1 HR	U419; U465	40	44



I — **GYP. BD. ON CURVED CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING NO SOUND ATTENUATION	STC RATING WITH SOUND ATTENUATION
H4	3 5/8"	4 7/8"	--	U419; U465	40	44
H4	3 5/8"	4 7/8"	1 HR	U419; U465	40	44
H6	6"	7 1/4"	--	U419; U465	40	44
H6	6"	7 1/4"	1 HR	U419; U465	40	44
H8	8"	9 1/4"	1 HR	U419; U465	40	44



H — **GYP. BD. ON CFMF**

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FOR
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TOMBALL, TEXAS

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ROOF, EXTERIOR WALL, & INTERIOR PARTITION TYPES

VOLUME 01

Job No.: 00802-04-01
Drawn By: CB
Date: 07.15.26
Sheet No.: G3.01

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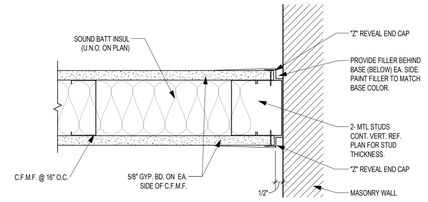
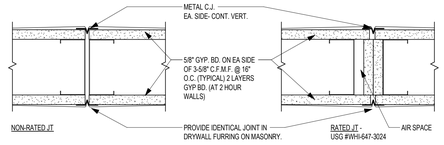
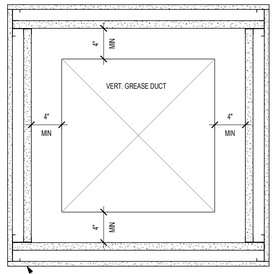


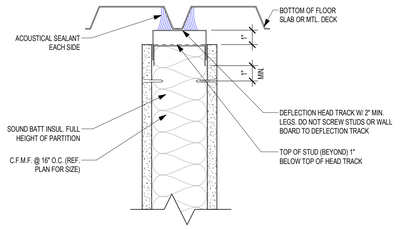
11 TYP DETAIL OF MTL STUD PARTITION TO CMU
3" = 1'-0"



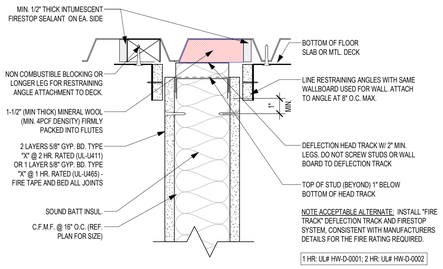
10 TYP C.J. @ DRYWALL
3" = 1'-0"



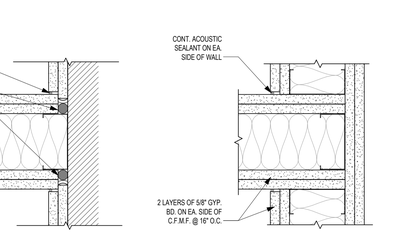
9 DETAIL - RATED DUCT ENCLOSURE
1 1/2" = 1'-0"



8 SOUND PARTITION CONNECTION OF WALL PARALLEL TO DECK
3" = 1'-0"



7 RATED CONNECTION OF WALL PARALLEL TO DECK
3" = 1'-0"



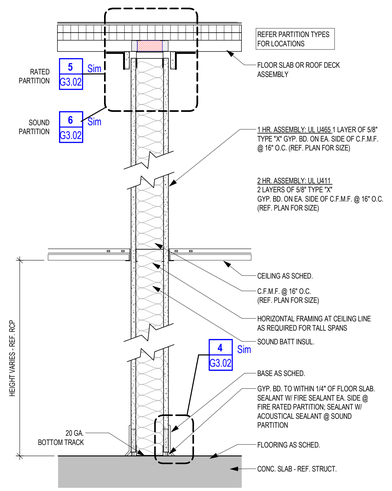
6 SOUND PARTITION CONNECTION OF WALL PERPENDICULAR TO DECK
3" = 1'-0"

5 RATED CONNECTION OF WALL PERPENDICULAR TO DECK
3" = 1'-0"

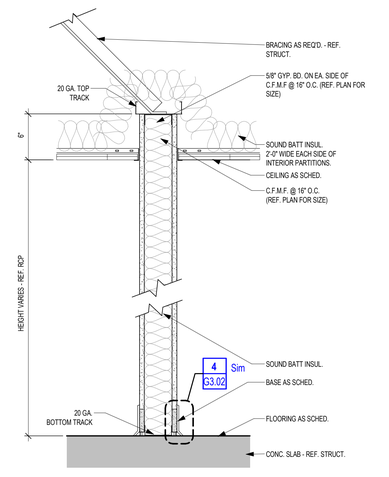
NOTE: CONTRACTOR CHOICE BETWEEN DETAIL "A" AND DETAIL "B" FOR BIDDING AND CONSTRUCTION. FOR CLARIFICATION, DETAIL OCCURS ON BOTH SIDES OF THE INTERIOR GYP BOARD WALLS.

4 GYP BD WALL TYP BASE DETAIL
6" = 1'-0"

3 TYP SOUND CONSTRUCTION DETAILS - CFMF
3" = 1'-0"



2 TYP. SECTION @ INTERIOR DRYWALL RATED OR SOUND PARTITION
1 1/2" = 1'-0"



1 TYP INTERIOR DRYWALL PARTITION
1 1/2" = 1'-0"

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TYPICAL INTERIOR PARTITION DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	G3.02
Drawn By:	
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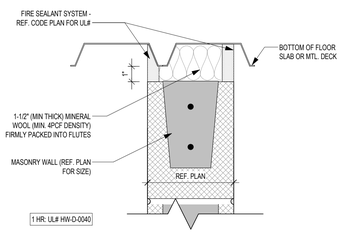
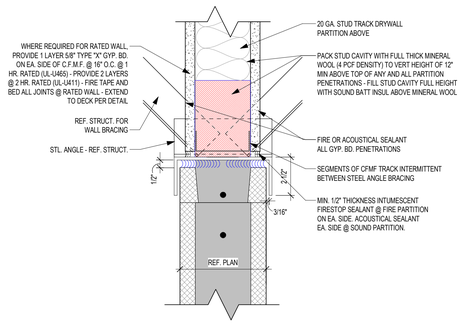
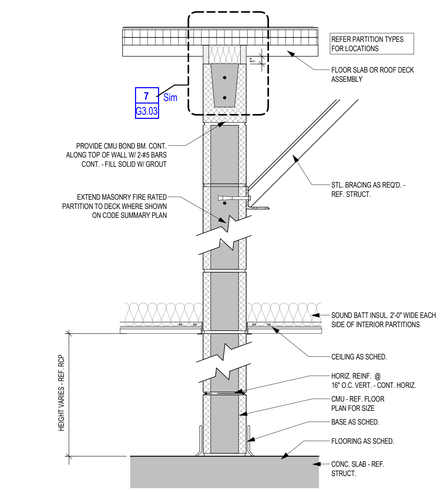
7 FIRE / SOUND RATED CONNECTION OF WALL PERP TO DECK
3" = 1'-0"



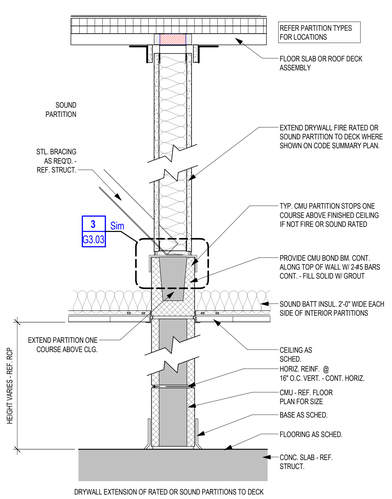
6 FIRE / SOUND RATED CONNECTION OF WALL PARALLEL TO DECK
3" = 1'-0"



3 DETAIL - CMU PARTITION
3" = 1'-0"

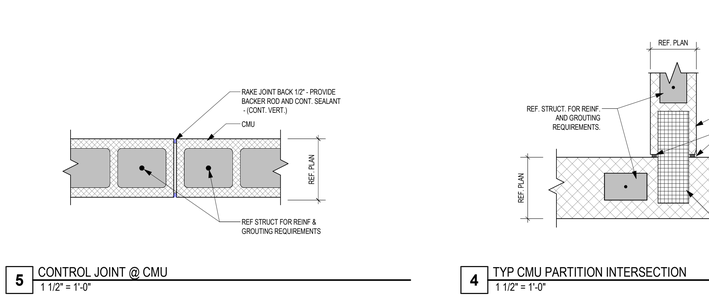


2 TYP. SECTION @ INTERIOR CMU RATED OR SOUND PARTITION
1 1/2" = 1'-0"



DRYWALL EXTENSION OF RATED OR SOUND PARTITIONS TO DECK

1 TYP. SECTION @ INTERIOR CMU SOUND PARTITION
1 1/2" = 1'-0"



5 CONTROL JOINT @ CMU
1 1/2" = 1'-0"

4 TYP CMU PARTITION INTERSECTION
1 1/2" = 1'-0"

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TYPICAL INTERIOR PARTITION DETAILS

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Job No.	Sheet No.
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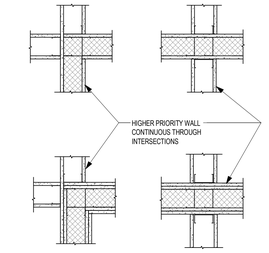
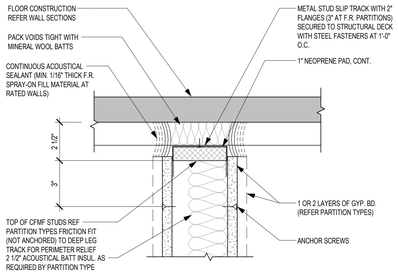
PARTITION RATING	PRIORITY
2 HOUR FIRE/SMOKE BARRIER	1 (HIGHEST)
2 HOUR FIRE WALL OR SHAFTWALL	2
1 HOUR FIRE/SMOKE BARRIER	3
1 HOUR FIRE WALL	4
NON-RATED SMOKE PARTITION	5
NON-RATED ACOUSTICAL WALL	6
NON-RATED NON-ACOUSTICAL	7 (LOWEST)



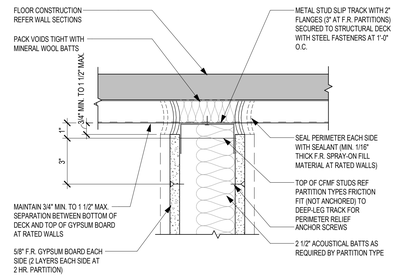
TYPICAL WALL PRIORITIES LEGEND

1. PENETRATION DETAILS 1 THROUGH 9 ARE FOR CONDUIT, PIPE, DUCT, ETC., PENETRATIONS THROUGH FIRE RATED FLOORS AND PARTITIONS AND ARE GENERIC IN NATURE. THE CONTRACTOR IS REQUIRED TO SUBMIT FOR APPROVAL, TO THE ARCHITECT, DETAILS SPECIFIC TO THE SEALANT AND FIRE-PROOFING MATERIAL MANUFACTURER'S TESTED AND APPROVED SYSTEMS INCLUDING SPECIFIC TEST DATA.
2. CLOSURE DETAILS 10, 11 AND 12 ARE TYPICAL CLOSURE DETAILS FOR ALL FULL-HEIGHT FIRE RATED AND NON-RATED PARTITIONS (REFER PARTITION TYPES).
3. DETAILS AND U.L. DESIGN NUMBERS SHOWN ARE REPRESENTATIVE OF THE MOST TYPICAL CONDITIONS ONLY AND OTHER ASSEMBLIES MAY BE REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT, SUBMIT AND INSTALL U.L. DESIGNS THAT ARE APPROPRIATE FOR ANY GIVEN CONDITION TO ACHIEVE THE REQUIRED FIRE-RESISTANCE RATING.
4. PENETRATIONS SHALL BE INSTALLED AS TESTED IN AN APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.
5. ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL HAVE A SMOKE-DEVELOPED INDEX OF 0-450 AND A FLAME SPREAD INDEX NOT GREATER THAN THE "CLASSIFICATION" REQUIRED BY THE BUILDING CODE BASED ON THE OCCUPANCY GROUP AND LOCATION WITHIN THE BUILDING.

WALL PENETRATION NOTES

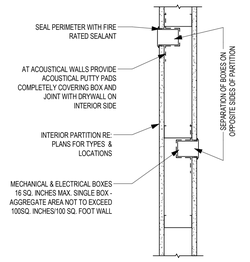


14 CLOSURE DETAIL
3" = 1'-0"



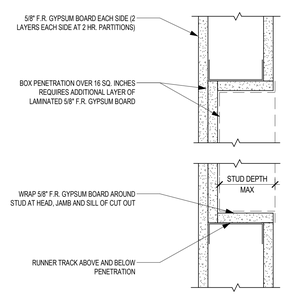
12 CLOSURE DETAIL
3" = 1'-0"

UL# - HWD0101



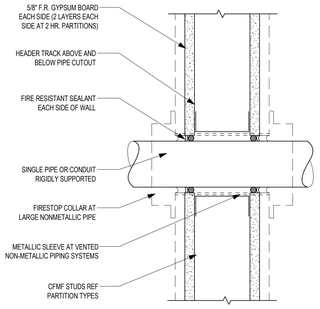
11 BOX PENETRATION AND SEPARATION DISTANCE DETAIL
1 1/2" = 1'-0"

UL# - UA25



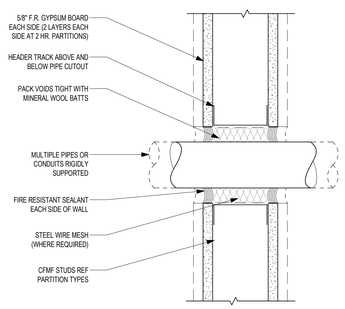
10 SHALLOW BOX PENETRATION
3" = 1'-0"

UL# - U425



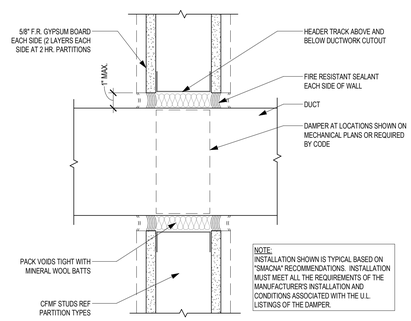
9 SINGLE PIPE PENETRATION
3" = 1'-0"

UL# - W-L2098
UL# - W-L2128
UL# - W-L2078
UL# - W-L1085



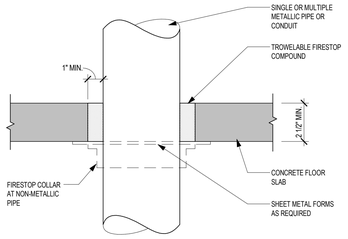
8 MULTIPLE PIPE PENETRATION
3" = 1'-0"

UL# - W-L8004
UL# - W-L1057



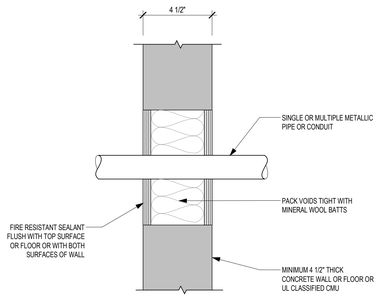
7 DUCT PENETRATION DETAIL
3" = 1'-0"

UL# - W-L7007



6 PIPE PENETRATION DETAIL
3" = 1'-0"

UL# - FA2025
UL# - CAJ1140
UL# - CAJ2109
UL# - CAJ2170
UL# - CAJ2335



5 PIPE PENETRATION DETAIL
3" = 1'-0"

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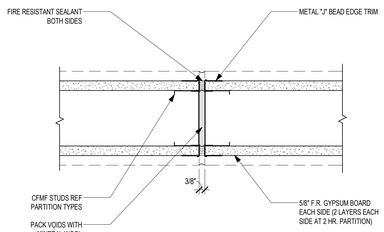
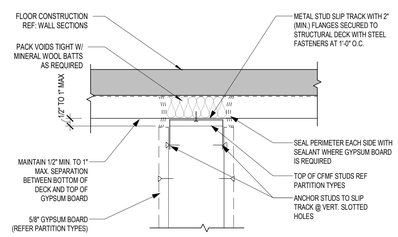
UL# - CAJ8041

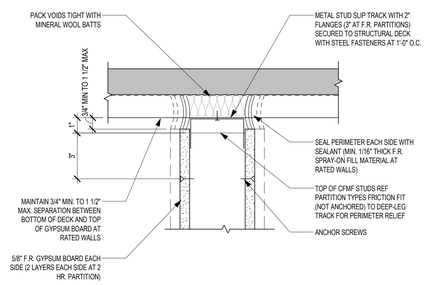


4 WALL CONTROL JOINT
3" = 1'-0"

UL# - WWS003



3 CLOSURE DETAIL
3" = 1'-0"



2 CLOSURE DETAIL
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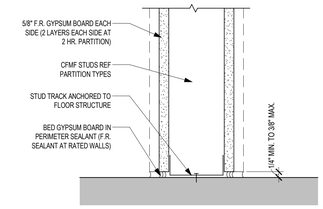
UL# - HWD0101



1 CLOSURE DETAIL
3" = 1'-0"

1-HR. - UL# - UA25
2-HR. - UL# - UA11

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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WALL PENETRATIONS - GYP BD

VOLUME 01

Job No.	Sheet No.
00802-04-01	G3.04
Drawn By:	
Date: 07.15.26	

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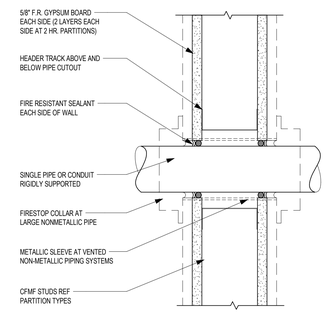
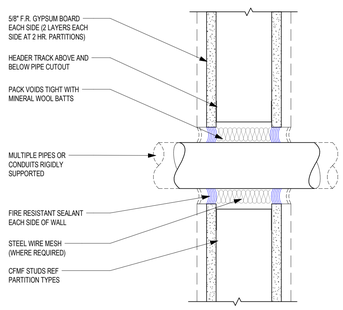
1. PENETRATION DETAILS 1 THROUGH 9 ARE FOR CONDUIT, PIPE, DUCT, ETC., PENETRATIONS THROUGH FIRE RATED FLOORS AND PARTITIONS AND ARE GENERIC IN NATURE. THE CONTRACTOR IS REQUIRED TO SUBMIT FOR APPROVAL, TO THE ARCHITECT, DETAILS SPECIFIC TO THE SEALANT AND FIRE-PROOFING MATERIAL MANUFACTURER'S TESTED AND APPROVED SYSTEMS INCLUDING SPECIFIC TEST DATA.
2. PENETRATION DETAILS 10 THROUGH 12 ARE FOR CONDUIT, PIPE, DUCT, ETC. PENETRATIONS THROUGH AND CLOSURES FOR ACOUSTICAL PARTITIONS AND ARE SPECIFIC IN NATURE. THESE DETAILS SHOULD NOT BE ALTERED IN ANY WAY. CARE SHOULD BE TAKEN TO ASSURE THE PENETRATING ITEM DOES NOT RIGIDLY ADHERE TO THE PARTITION AND THAT ALL SEALANTS ARE TYPES THAT ARE PREEMINENTLY RESILIENT.
3. CLOSURE DETAILS 13 THROUGH 16 ARE TYPICAL CLOSURE DETAILS FOR ALL FULL-HEIGHT FIRE RATED AND NON-RATED PARTITIONS (REFER PARTITION TYPES).
4. DETAILS AND U.L. DESIGN NUMBERS SHOWN ARE REPRESENTATIVE OF THE MOST TYPICAL CONDITIONS ONLY AND OTHER ASSEMBLIES MAY BE REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT, SUBMIT AND INSTALL U.L. DESIGNS THAT ARE APPROPRIATE FOR ANY GIVEN CONDITION TO ACHIEVE THE REQUIRED FIRE-RESISTANCE RATING.
5. PENETRATIONS SHALL BE INSTALLED AS TESTED IN AN APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.
6. ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL HAVE A SMOKE-DEVELOPED INDEX OF 0-450 AND A FLAME SPREAD INDEX NOT GREATER THAN THE "CLASSIFICATION" REQUIRED BY THE BUILDING CODE BASED ON THE OCCUPANCY GROUP AND LOCATION WITHIN THE BUILDING.

WALL PENETRATIONS NOTES



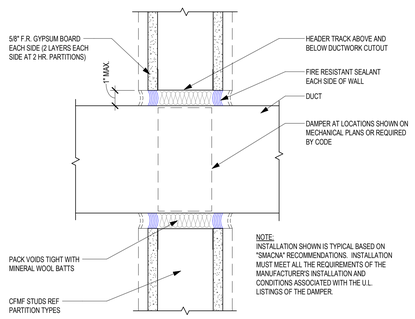
UL# - W-L2098
UL# - W-L2128
UL# - W-L2078
UL# - W-L1085

11 SINGLE PIPE PENETRATION
3" = 1'-0"



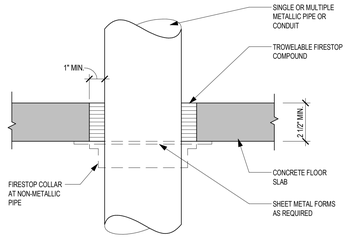
UL# - W-L8004
UL# - W-L1057

10 MULTIPLE PIPE PENETRATION
3" = 1'-0"



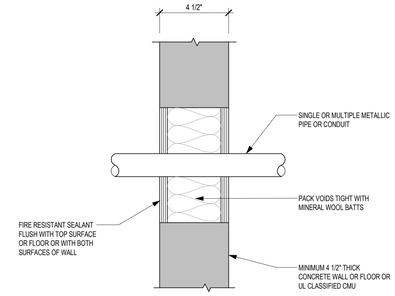
UL# - W-L7007

9 DUCT PENETRATION DETAIL
3" = 1'-0"



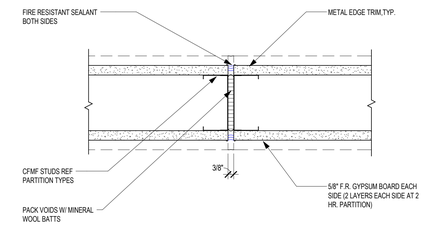
UL# - FA2025
UL# - CAJ1140
UL# - CAJ2109
UL# - CAJ2170
UL# - CAJ2335

8 PIPE PENETRATION DETAIL
3" = 1'-0"



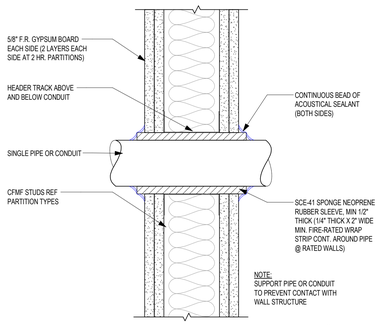
UL# - CAJ1149
UL# - CAJ8041

7 PIPE PENETRATION DETAIL
3" = 1'-0"



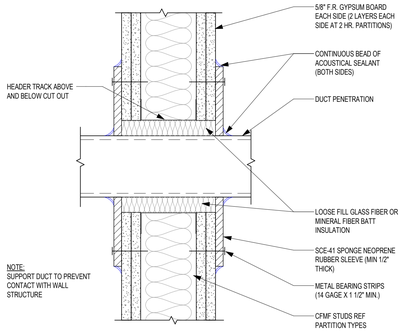
UL# - WWS003

6 WALL CONTROL JOINT
3" = 1'-0"



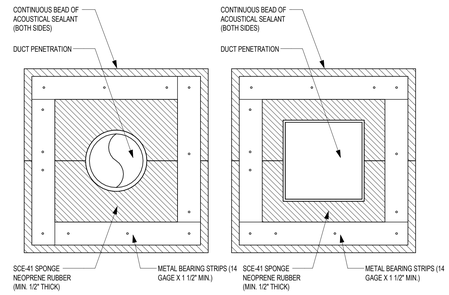
UL# - W-L2284
UL# - W-L2235
UL# - W-L5028

5 SINGLE PIPE PENETRATION
3" = 1'-0"

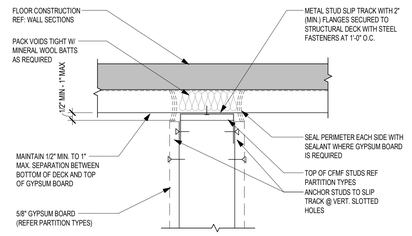


UL# - W-L8004
UL# - W-L1057

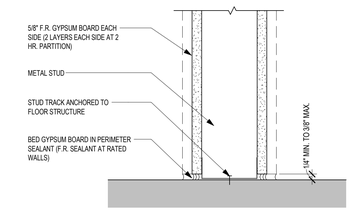
4 SINGLE PIPE PENETRATION
3" = 1'-0"



3 PENETRATION DETAIL ELEVATION
3" = 1'-0"



2 CLOSURE DETAIL
3" = 1'-0"



1-HR. - UL# - U425
2-HR. - UL# - U411

1 CLOSURE DETAIL
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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WALL PENETRATIONS - ACOUSTICAL

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Date: 07.15.26	

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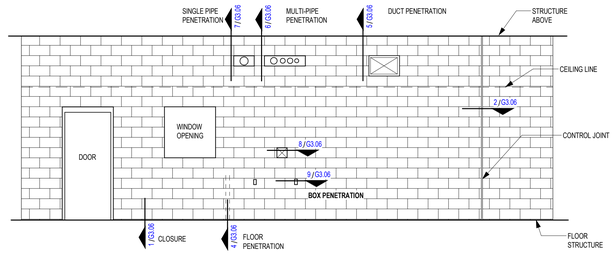
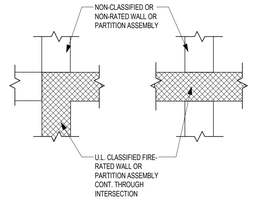


FIRE RATED PARTITION DETAIL REFERENCE ELEVATION

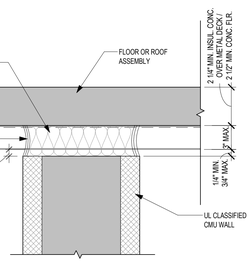
PARTITION RATING	PRIORITY
4 HOUR FIRE WALL	1 (HIGHEST)
3 HOUR FIRE WALL	2
2 HOUR FIRE WALL	3
4 HOUR FIRE BARRIER	4
3 HOUR FIRE BARRIER	5
2 HOUR FIRE BARRIER	6
1 HOUR FIRE BARRIER	7
1 HOUR FIRE PARTITION	8
1 HOUR SMOKE BARRIER	9
NON-FIRE-RATED WALL/PARTITION RESISTING PASSAGE OF SMOKE	10
NON-FIRE-RATED ACOUSTICAL WALL/PARTITION	11
NONE-FIRE-RATED NON-ACOUSTICAL WALL/PARTITION	12



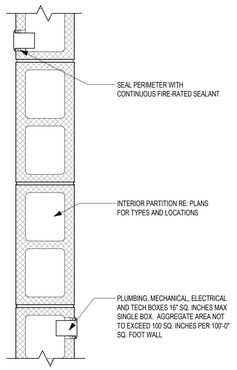
TYPICAL WALL PRIORITIES LEGEND

1. PENETRATION DETAILS 4 THROUGH 9 ARE FOR CONDUIT, PIPE, DUCT, ETC. PENETRATIONS THROUGH FIRE RATED FLOORS AND PARTITIONS AND ARE GENERIC IN NATURE. THE CONTRACTOR IS REQUIRED TO SUBMIT FOR APPROVAL TO THE ARCHITECT, DETAILS SPECIFIC TO THE SEALANT AND FIRE-PROOFING MATERIAL MANUFACTURER'S TESTED AND APPROVED SYSTEMS INCLUDING SPECIFIC TEST DATA.
2. CLOSURE DETAILS 10 AND 11 ARE TYPICAL CLOSURE DETAILS FOR ALL FULL-HEIGHT FIRE RATED AND NON-FIRE-RATED PARTITIONS (REFER PARTITION TYPES).
3. DETAILS AND U.L. DESIGN NUMBERS SHOWN ARE REPRESENTATIVE OF THE MOST TYPICAL CONDITIONS ONLY AND OTHER ASSEMBLIES MAY BE REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SELECT, SUBMIT AND INSTALL U.L. DESIGNS THAT ARE APPROPRIATE FOR ANY GIVEN CONDITION TO ACHIEVE THE REQUIRED FIRE-RESISTIVE RATING .

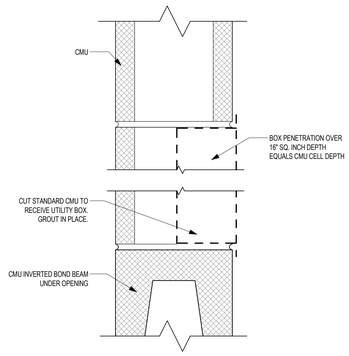
WALL PENETRATION NOTES



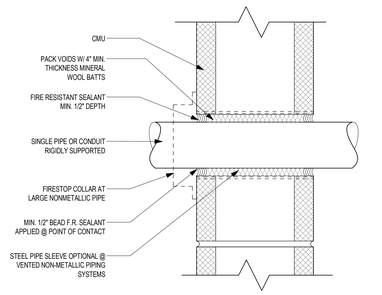
10 CLOSURE DETAIL — 3" = 1'-0" — UL# - HW-D-0081



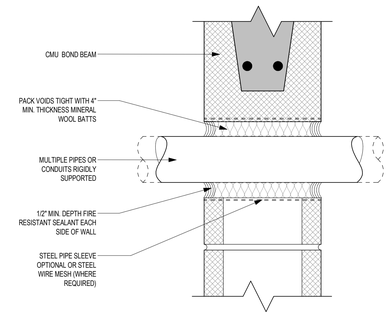
9 BOX PENETRATION - PLAN DTL — 1 1/2" = 1'-0" — UL# - U905



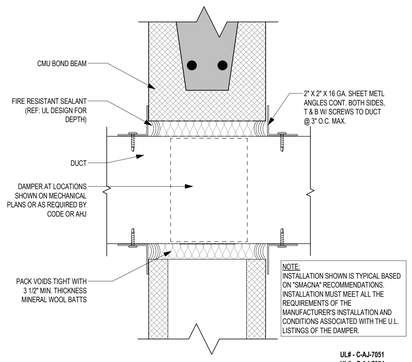
8 BOX PENETRATION DETAIL — 3" = 1'-0" — UL# - U905



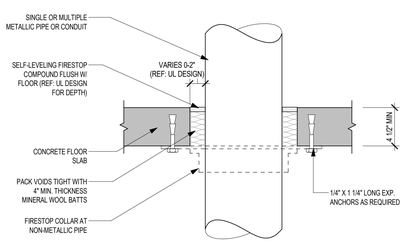
7 SINGLE PIPE PENETRATION — 3" = 1'-0" — UL# - C-AJ-1380, UL# - C-AJ-1421, UL# - C-AJ-1453, UL# - C-AJ-2109



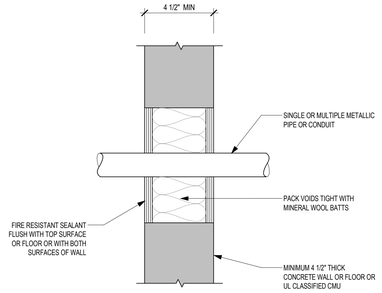
6 MULTIPLE PIPE PENETRATION — 3" = 1'-0" — UL# - C-AJ-8143, UL# - C-AJ-8148



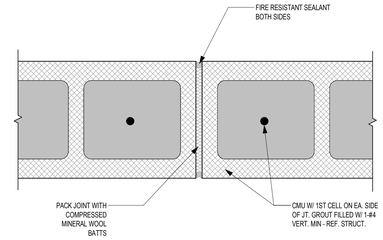
5 DUCT PENETRATION DETAIL — 3" = 1'-0" — UL# - C-AJ-7051, UL# - C-AJ-7084, UL# - W-J-7109



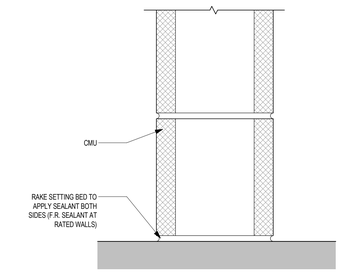
4 PIPE PENETRATION DETAIL — 3" = 1'-0" — UL# - C-AJ-1149, UL# - C-AJ-1421, UL# - CA-J-2109, UL# - CA-J-2271, UL# - F-A-0032



3 PIPE PENETRATION DETAIL — 3" = 1'-0"



2 WALL CONTROL JOINT — 3" = 1'-0" — 2-HR. - UL# - WW-D-0043, 2-HR. - UL# - WW-D-0044



1 CLOSURE DETAIL — 3" = 1'-0" — UL# - U905

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 — 7/15/2026

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WALL PENETRATIONS - CMU

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INSTRUCTIONAL CAPACITY

METHOD

- ☐ MAXIMUM INSTRUCTIONAL CAPACITY (QUANTITATIVE METHOD)
- ■ ADJUSTED MAXIMUM INSTRUCTIONAL CAPACITY (QUALITATIVE METHOD)

LEVEL OF FLEXIBILITY	ELEMENTARY SCHOOL (ES) PRE-K - GRADE 6	MIDDLE SCHOOL (MS) GRADE 7 - GRADE 8	HIGH SCHOOL (HS) GRADE 9 - GRADE 12
☐ FLEXIBILITY LEVEL 1 (L1)	☐ 36 SF	☐ 32 SF	☐ 32 SF
■ FLEXIBILITY LEVEL 2 (L2)	■ 36 SF	☐ 32 SF	☐ 32 SF
☐ FLEXIBILITY LEVEL 3 (L3)	☐ 42 SF	☐ 36 SF	☐ 36 SF
☐ FLEXIBILITY LEVEL 4 (L4)	☐ 42 SF	☐ 36 SF	☐ 36 SF

INSTRUCTIONAL CAPACITY

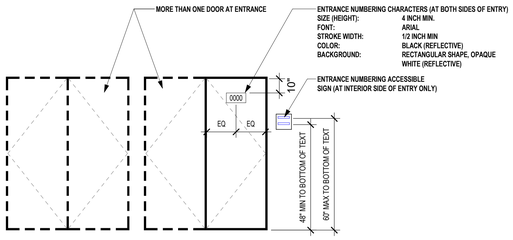
1,100 STUDENTS X 36 SF PER STUDENT = 39,600 SF (AGGREGATE) REQUIRED

69,500 SF (AGGREGATE) PROVIDED / 36 SF = 1,930 ACTUAL CAPACITY PROVIDED

STAFF CAPACITY

1,100 ACTUAL INSTRUCTIONAL CAPACITY PROVIDED x 0.10 (10 PERCENT) = 110 STAFF*

*ESTIMATED



ENTRANCE DOOR ELEVATION

NOTES

1. ENTRANCE NUMBERING CHARACTERS SHALL BE ALPHA-NUMERIC AND PER EACH BUILDING INDIVIDUALLY SEQUENCING SYSTEM
2. THE DESIGNATED MAIN PRIMARY ENTRANCE SHALL BE FIRST IN ALPHA-NUMERIC SEQUENCING, BUT IS THE ONLY ENTRANCE NOT REQUIRED TO ACTUALLY DISPLAY NUMBERING SEQUENCE ON EXTERIOR SIDE OF ENTRANCE
3. NUMBERING OF ENTRANCES SHALL START AT THE DESIGNATED MAIN PRIMARY ENTRANCE AND CONTINUE IN CLOCKWISE DIRECTION THROUGHOUT
4. EACH ENTRANCE LOCATION SHALL HAVE ALPHA-NUMERIC CHARACTERS AT EXTERIOR AND INTERIOR SIDE OF SUCH ENTRANCE
5. AT EXTERIOR SIDE ONLY OF EACH ENTRANCE LOCATION, ENTRANCE NUMBERING CHARACTERS SHALL COMPLY WITH IFC 505, AND BE VINYL, PERMANENTLY AFFIXED
6. AT EXTERIOR SIDE ONLY OF EACH ENTRANCE LOCATION, DEPENDING UPON DOOR TYPE, AFFIX NUMBERING CHARACTERS ON GLAZING OR DOOR MATERIAL IN LOCATION AS INDICATED
7. AT INTERIOR SIDE ONLY OF EACH ENTRANCE LOCATION, PROVIDE ENTRANCE NUMBERING BY ACCESSIBLE SIGNAGE; SUCH INTERIOR ALPHA-NUMERIC NUMBERING SEQUENCE SHALL MATCH ALPHA-NUMERIC NUMBERING SEQUENCE OF EXTERIOR OF SAME ENTRANCE LOCATION; ACCESSIBILITY OF SUCH SIGNAGE SHALL BE PER ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
8. AT EACH ENTRANCE LOCATION WITH MULTIPLE DOORS AND/OR MULTIPLE DOOR LEAFS, ALPHA-NUMERIC NUMBERING CHARACTERS SHALL BE APPLIED ON APPROACHING RIGHT-HAND SIDE DOOR ONLY AT EXTERIOR SIDE OF SUCH ENTRANCE
9. AT EACH ENTRANCE LOCATION WITH MULTIPLE DOORS AND/OR MULTIPLE DOOR LEAFS, ENTRANCE NUMBERING ACCESSIBLE SIGNAGE SHALL BE PROVIDED IN LOCATION PER ALL APPLICABLE ACCESSIBILITY REQUIREMENTS AT INTERIOR SIDE ONLY OF SUCH ENTRANCE
10. REFERENCE AT SERIES FOR NUMBERING OF ROOF HATCHES. ROOF HATCHES SHALL BE LABELED AT INTERIOR AND EXTERIOR.

TEA ENTRANCE TAGS

XXXX PRIMARY ENTRANCE — MAIN ENTRANCE TO AN INSTRUCTIONAL FACILITY THAT IS CLOSEST TO OR DIRECTLY CONNECTED TO THE RECEPTION AREA; **OR** ANY EXTERIOR DOOR THE SCHOOL DISTRICT INTENDS TO ALLOW VISITORS TO USE TO ENTER THE FACILITY DURING SCHOOL HOURS EITHER THROUGH POLICY OR PRACTICE; **OR** ANY EXTERIOR DOOR THE SCHOOL DISTRICT INTENDS TO ALLOW TO REMAIN UNLOCKED DURING SCHOOL HOURS

XXXX SECONDARY ENTRANCE — ANY EXTERIOR DOOR THAT IS NOT ONE OF THE FOLLOWING: A PRIMARY ENTRANCE; A NON-DESIGNATED ENTRANCE

XXXX NON-DESIGNATED ENTRANCE — A DOOR THAT IS NOT OPERABLE FROM THE EXTERIOR AND IS DESIGNED TO ONLY ALLOW FOR EMERGENCY EGRESS

TEA ENTRANCE LEGEND

1 TEA ENTRANCE PLAN
1/16" = 1'-0"

PLAN TRUE NORTH

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29814 STATE OF TEXAS
7/15/2026

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TEA COMPLIANCE

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G5 - SCHEDULE OF MATERIALS & COLORS

11d	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES.	CONTACT

DIVISION 3 - CONCRETE

03 3543 - BONDED ABRASIVE POLISHED CONCRETE FLOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
COS	CONCRETE, SEALED									

03 5400 - DECORATIVE CONCRETE TOPPING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
DCT01	DECORATIVE CONCRETE TOPPING									

DIVISION 4 - MASONRY

04 2000 - UNIT MASONRY

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CSMU01	CALCIUM SILICATE MASONRY UNIT	ARRISCRAFT	GEORGIA RENAISSANCE	CUSTOM COLOR MATCH TO EXISTING BAKER HUGHES BUILDING - TO BE CONFIRMED BY OWNER	REFER TO DRAWINGS	SMOOTH	CONCAVE MORTAR JOINT - MORTAR TO MATCH COLOR OF BRICK	REFER TO DRAWING DETAILS FOR RECESSED BRICK LOCATIONS	FINAL DESIGN TO BE CONFIRMED BY ARCHITECT AND OWNER AT MOCK-UP BEFORE INSTALLATION	UPCHURCH KIMBROUGH, BRIAN O'NEAL, briano@upchurchkimbrough.com, 713-957-152
BRK01	BRICK	ENDICOTT	FACE BRICK	MANGANESE IRONSPOT	SLIM UTILITY (NOMINALLY 4"X3"X12")	VELOUR	CONCAVE MORTAR JOINT - MORTAR: BLACK	REFER TO DRAWING DETAILS FOR RECESSED BRICK LOCATIONS	FINAL DESIGN TO BE CONFIRMED BY ARCHITECT AND OWNER AT MOCK-UP BEFORE INSTALLATION	UPCHURCH KIMBROUGH, BRIAN O'NEAL, briano@upchurchkimbrough.com, 713-957-152
BRK02	BRICK	ENDICOTT	FACE BRICK	MANGANESE IRONSPOT	SLIM UTILITY (NOMINALLY 4"X3"X12")	SMOOTH	CONCAVE MORTAR JOINT - MORTAR: BLACK, VERTICAL STACK BOND (SOLDIER). REF DRAWINGS W HORINZONTAL REFINF PER MASONRY STANDARD 402	AT WINDOW OPENINGS	FINAL DESIGN TO BE CONFIRMED BY ARCHITECT AND OWNER AT MOCK-UP BEFORE INSTALLATION	UPCHURCH KIMBROUGH, BRIAN O'NEAL, briano@upchurchkimbrough.com, 713-957-152
BRK03	BRICK	ENDICOTT	THIN BRICK	MANGANESE IRONSPOT	NOMINALLY 4"X12"X1"	SMOOTH	CONCAVE MORTAR JOINT - MORTAR: BLACK, VERTICAL STACK BOND (SOLDIER). REF DRAWINGS	BELOW CURTAINWALL IN LIBRARY		UPCHURCH KIMBROUGH, BRIAN O'NEAL, briano@upchurchkimbrough.com, 713-957-152

DIVISION 5 - METALS

05 5000 - METAL FABRICATIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL HANDRAILS			100% STAINLESS STEEL						

05 5516 - METAL STAIR NOSINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL STAIR NOSINGS	SCHLUTER	TREP-G-S	STAINLESS STEEL			AT TILE			

05 7000 - DECORATIVE METAL

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	DECORATIVE METAL RAILINGS	VIVA RAILINGS	SOLO	GLASS CLEAR LAMINATED	REF DRAWINGS	100% STAINLESS STEEL				PKlement@vivarailings.com

DIVISION 6 - WOOD-PLASTICS

06 6400 - TRANSLUCENT RESIN PANEL SYSTEM

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
RP01	RESIN PANEL	LUMICOR		SAHARA	3/8" THICK			LIBRARY SCREEN		
RP01.1	RESIN PANEL	LUMICOR		SAHARA + SANDSTONE SILVER	3/8" THICK			LIBRARY SCREEN		
RP01.2	RESIN PANEL	LUMICOR		SAHARA + SANDSTONE SILVER+ SANDSTONE SILVER	1/2" THICK	DOUBLE SIDED		LIBRARY SCREEN		
RP02	RESIN PANEL	LUMICOR		POMEGRANATE+ SUNSET + ORCHID + POMEGRANATE	3/8" THICK			LIBRARY SCREEN		
RP02.1	RESIN PANEL	LUMICOR		POMEGRANATE+ SUNSET + ORCHID + POMEGRANATE + SANDSTONE SILVER	3/8" THICK			LIBRARY SCREEN		
RP02.2	RESIN PANEL	LUMICOR		POMEGRANATE+ SUNSET + ORCHID + POMEGRANATE + SANDSTONE SILVER	1/2" THICK	DOUBLE SIDED		LIBRARY SCREEN		
RP03	RESIN PANEL	LUMICOR		PHANTOM	3/8" THICK			LIBRARY SCREEN		
RP03.1	RESIN PANEL	LUMICOR		PHANTOM + SANDSTONE SILVER	3/8" THICK			AUDITORIUM SURROUND		
RP06	RESIN PANEL	LUMICOR		PHANTOM + SANDSTONE SILVER	1/2" THICK	DOUBLE SIDED		LIBRARY SCREEN		

06 8316 - FIBERGLASS REINFORCED PANELING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
FRP01	FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM									

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07 4213 - METAL WALL PANELS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MP01	METAL WALL PANEL	ZEEFF	PAINTED ALUMINUM	CUSTOM COLOR MATCH TO EXISTING BAKER HUGHES BUILDING - TO BE CONFIRMED BY OWNER			CONFIRM CLIP SIZE AND COUNT WITH MANUF. REQUIREMENTS.			DEREK LEDY, diedy@zeeffpanels.com, 989-854-9439
MP02	METAL WALL PANEL	BERRIDGE	HC-16	CUSTOM COLOR MATCH TO CLEAR ANODIZED	AS NOTED ON DRAWINGS	TBD	CONCEALED FASTENERS			
MP03	METAL WALL PANEL	LONGBOARD	6" V-GROOVE PLANK	LIGHT NATIONAL WALNUT		TBD			"MP03-V" DESIGNATES VENTED CONDITIONS AS CALLED OUT ON THE DRAWINGS	RED RAMSEY - 469.927.5670 Rramsey@longboardproducts.com
MS02	METAL SOFFIT	LONGBOARD	6" V-GROOVE PLANK	LIGHT NATIONAL WALNUT		TBD			"MS02-V" DESIGNATES VENTED CONDITIONS AS CALLED OUT ON THE DRAWINGS	RED RAMSEY - 469.927.5670 Rramsey@longboardproducts.com
MP04	METAL WALL PANEL	PAC-CLAD	7/8" CORRUGATED PANEL	COLOR MATCH TO MP02 1/8" HOLES, .324" STAGGERED, 13.5% OPEN				MECHANICAL SCREENS - HOLE PATTERN, SIZE, AND OPENNESS FOR PRICING ONLY. ARCHITECT SHALL SELECT FROM ALL OPTIONS FROM MANUFACTURER IN COORDINATION WITH THE CITY REQUIREMENTS		

07 8123 - INTUMESCENT FIRE PROTECTION

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
TYP01	INTUMESCENT FIRE PROTECTION			MATCH PNT01						NAME EMAIL PHONE

DIVISION 8 - OPENINGS

08 1113 - HOLLOW METAL DOORS AND FRAMES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
HM	HOLLOW METAL	SHERWIN WILLIAMS		PEPPERCORN / SW7674						

08 1116 - ALUMINUM DOORS AND FRAMES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AL	ALUMINUM			CLEAR ANODIZED						NAME EMAIL PHONE

08 1416 - FLUSH WOOD DOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
SC	SOLID CORE (DOOR)	WILSONART		WALNUT HEIGHTS / 765K-12						NAME EMAIL PHONE

08 3323 - OVERHEAD COILING DOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
OCD	OVERHEAD COILING DOORS			COLOR MATCH TO CLEAR ANODIZED						NAME EMAIL PHONE

08 3326 - OVERHEAD COILING GRILLES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
OCG	OVERHEAD COILING GRILLE			CLEAR ANODIZED						NAME EMAIL PHONE

08 3613 - SECTIONAL DOORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
SD	SECTIONAL DOOR	RENLITA	S-3000 FOLDAWAY	CLEAR ANODIZED						NAME EMAIL PHONE

08 4313 - ALUMINUM FRAMED STOREFRONTS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AL	ALUMINUM			CLEAR ANODIZED						NAME EMAIL PHONE

08 4413 - GLAZED ALUMINUM CURTAIN WALLS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AL	ALUMINUM			CLEAR ANODIZED						NAME EMAIL PHONE

DIVISION 9 - FINISHES

09 3000 - TILING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BSS	BASE, STAINLESS STEEL									
TQ01	TILE, QUARRY	DALTILE	QUETREAD	CHARCOAL	6"x 6"					EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
BTQ01	BASE, TILE, QUARRY	DALTILE	QUETREAD	CHARCOAL	6" x 6"					
TC01	TILE, CERAMIC	DALTILE	COLOR WHEEL LINEAR	MATTE ARTIC WHITE 0790	4"x12"	MATTE	STACKED BOND	SERVING LINE WALLS		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT				FROST / 77						
TC02	TILE, CERAMIC	DALTILE	COLOR WHEEL LINEAR	ARTIC WHITE 0190	4"x12"	SEMI-GLOSS	STACKED BOND	SERVING LINE WALLS		
GROUT		MAPEI		FROST / 77						
TP01	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE CROSSCUT	PEONY, HS04	12" x 24"	MATTE	STACKED BOND	CORRIDOR TILE WAINSCOT		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT		MAPEI		WARM GRAY / 93						
TP02	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE RIDGE	PEONY, HS04	12" x 24"	TEXTURED	STACKED BOND	CORRIDOR TILE WAINSCOT ACCENT		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT		MAPEI		WARM GRAY / 93						
TP03	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE CROSSCUT	ATLAS, HS06	12" x 24"	MATTE	STACKED BOND	CURVED CORRIDOR, SCIENCE AND FINE ARTS CLASS ENTRY ALCOVES TILE WAINSCOT, AT ELEVATOR		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT		MAPEI		WALNUT / 106						
TP04	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE RIDGE	ATLAS, HS06	12" x 24"	TEXTURED	STACKED BOND	CURVED CORRIDOR, SCIENCE AND FINE ARTS CLASS ENTRY ALCOVES TILE WAINSCOT ACCENT, AT ELEVATOR		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT		MAPEI		WALNUT / 106						
TP05	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE CROSSCUT	VELVET, HS08	12" x 24"	MATTE	STACKED BOND	RESTROOMS ENTRY, BEHIND BENCH UNDER MAIN STAIRS		EVELYN IACOBUCCI evelyn.iacobucci@daltile.com
GROUT		MAPEI		CHARCOAL / 47						
TP06	TILE, PORCELAIN	CROSSVILLE STUDIOS	TWIN PEAKS - UP	SNOW	3" x 12"			SERVING LINE OPENING		DANA ANTAKE DANA.ANTAKE@AHFPRODUCTS.COM 713.203.4253
GROUT		MAPEI		FROST / 77						
TP07	TILE, PORCELAIN	CROSSVILLE STUDIOS	TWIN PEAKS - MEDIUM	SNOW	3" x 12"			SERVING LINE OPENING		DANA ANTAKE DANA.ANTAKE@AHFPRODUCTS.COM 713.203.4253
GROUT		MAPEI		FROST / 77						
TP08	TILE, PORCELAIN	TRINITY SURFACES	ROCKLEDGE / MATTE	CLAY	24" X 48"			RESTROOMS FLOOR		CLAIRE ZOGG CZOGG@TRINITYSURFACES.COM 281.979.5081
GROUT		MAPEI		SAHARA BIEGE / 11						
TP09	TILE, PORCELAIN	TRINITY SURFACES	ARABELLA	DAWN	2" x 10"			CLASSROOM CORRIDOR CURVED CORNER		CLAIRE ZOGG CZOGG@TRINITYSURFACES.COM 281.979.5081
GROUT		MAPEI		IVORY / 39						
TP10	TILE, PORCELAIN	TRINITY SURFACES	ARABELLA	DAWN	2" x 10"			CLASSROOM CORRIDOR CURVED CORNER		CLAIRE ZOGG CZOGG@TRINITYSURFACES.COM 281.979.5081
GROUT		MAPEI		IVORY / 39						
TP11	TILE, PORCELAIN	ARIZONA TILE	GEM	VINO	2" x 16"			SERVING LINE		EMILY HILL EHILL@ARIZONATILE.COM
GROUT		MAPEI		WARM GRAY / 93						
TP12	TILE, PORCELAIN	AUDREY LANE	WATERJET GIRLS BEST FRIEND	PATTERN "A" CALACATTA MATTE, PURE BLACK MATTE, ARCTIC GILD METAL	MODEST SCALE			RESTROOMS AND BEHIND WATER FOUNTAINS		CLAIRE ZOGG CZOGG@TRINITYSURFACES.COM 281.979.5081
GROUT		MAPEI		WARM GRAY / 93						
TP13	TILE,PORCELAIN	AUDREY LANE	WATERJET GIRLS BEST FRIEND	CALACATTA MATTE, ARCTIC GILD METAL	MODEST SCALE			LIFE SKILLS RESTROOM		
GROUT		MAPEI		WARM GRAY / 93						
TP14	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE CROSSCUT	PEONY, HS04	24" X 48"			DINING COLUMNS AT BENCH		
GROUT		MAPEI		WARM GRAY / 93						
TP15	TILE, PORCELAIN	DALTILE	HADDONSTONE / RECTANGLE CROSSCUT	VELVET, HS08	24" X 48"			SERVING LINE FLOOR		
GROUT		MAPEI		CHARCOAL / 47						

09 5100 - ACOUSTICAL CEILINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
L1	LAY-IN SUSPENDED CEILING	CERTAINTEED	FINE FISSURED HHF-157	WHITE, UNO	24" x 24"				STANDARD	NAME EMAIL PHONE
L4	LAY-IN SUSPENDED CEILING	CERTAINTEED	VINYLROCK 1142-CRF-1	WHITE, UNO	24" x 24"				VINYL COVERED (FOOD SERVICE)	NAME EMAIL PHONE
L6	LAY-IN SUSPENDED CEILING	CERTAINTEED	SYMPHONY F 1362-IOF-1	WHITE, UNO	24" x 24"				ACOUSTICAL 'ABSORPTIVE' (GLASS FIBER)	NAME EMAIL PHONE
L9	LAY-IN SUSPENDED CEILING	CERTAINTEED	SYMPHONY M 1228-85-1	WHITE, UNO	24" x 72"		SUSPENDED CLOUDS	CLASSROOM CORRIDORS	MINERAL FIBER (LARGE FORMAT)	NAME EMAIL PHONE
L10	LAY-IN SUSPENDED CEILING	CERTAINTEED	SYMPHONY M 1229-75-1	WHITE, UNO	30" x 60"			SECURED VESTIBULE	MINERAL FIBER (LARGE FORMAT)	
L11	LAY-IN SUSPENDED CEILING	CERTTAINTEED	FINE FISSURED HIGH NRC HHF-457 HNRC	WHITE,UNO	24"x24"				STANDARD, HIGH NRC	

09 5426 - LINEAR WOOD CEILINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
LCS01	LINEAR CEILING SYSTEM	ARMSTRONG CEILINGS	ENCORE SERIES 1	STAINED TO MATCH PL02	8" GROOVE SPACING			LIBRARY		NAME EMAIL PHONE
LCS02	LINEAR CEILING SYSTEM	CERTAINTEED	CONTINIOUS LINEAR PLANK	STAINED TO MATCH PL02	6" PLANK			LIBRARY AT SCREEN AND DINING	FELT REVEALS	NAME EMAIL PHONE

09 6433 - LAMINATED WOOD FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WMP01	WOOD PLANK FLOORING	NYDREE	MAPLE	PERFECT BROWN	4" PLANKS			LEARNING STAIR IN LIBRARY		
WMP02	WOOD PLANK FLOORING	NYDREE	PLAINSAWN WHITE OAK	PERFECT BROWN	2 2/3" PLANKS			CURVED BENCHES AT CORRIDORS		
WMP03	WOOD PLANK FLOORING	NYDREE	PLAINSAWN WHITE OAK	PERFECT BROWN	4" PLANKS			LEARNING STAIR NOSING		

09 6500 - RESILIENT FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BR01	BASE, RUBBER	ROPPE		BLACK BROWN / 193	4"					STER STEPHANIE.FOSTER@TARKETT.COM 281.702.5258
BR02	BASE, RUBBER	ROPPE		ESPRESSO / 691	4"					NAME EMAIL PHONE
BR03	BASE, RUBBER	ROPPE	TOELESS	BLACK / 100	2.5"					
BRV01	BASE, RUBBER VENTED	ROPPE		BLACK BROWN / 193	4"					NAME EMAIL PHONE
LVT01A	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	FLANNEL / C146	6" x 36" (30MIL)			GENERAL FIELD VINYL TILE		MICHELLE MORRIS MICHELLE.MORRIS@MANNINGTON.COM 832.823.3421
LVT01B	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	FLANNEL / C146	18" x 18" (30MIL)			FLOORING PATTERN AT INTERSECTION IN AREA A, C AND E		
LVT02A	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	TRUFFLE / C147	6" x 36" (30MIL)			GENERAL ACCENT VINYL TILE		MICHELLE MORRIS MICHELLE.MORRIS@MANNINGTON.COM 832.823.3421
LVT02B	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	TRUFFLE / C147	12" x 24" (30MIL)			FLOORING PATTERN AT INTERSECTION IN AREA A, C AND E		
LVT03	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	BUZZY YELLOW / C104	6" x 36" (30MIL)			GENERAL ACCENT VINYL TILE		MICHELLE MORRIS MICHELLE.MORRIS@MANNINGTON.COM 832.823.3421
LVT04	LUXURY VINYL TILE	MANNINGTON	COLOR ANCHOR / GROVE	RHUBARB PIE / C102	6" x 36" (30MIL)			GENERAL AND FLOORING PATTERN AT INTERSECTION IN AREA S, C AND E		MICHELLE MORRIS MICHELLE.MORRIS@MANNINGTON.COM 832.823.3421
RTR01	RUBBER TREADS	ROPPE	RUBBER TREAD	PEWTER / 178		SAFETY ROUNDS		EGRESS STAIRS AND RAMP	AT STAIR NOSING PROVIDE RUBBER INSERT; COLOR BLACK	

09 6566 - RESILIENT ATHLETIC FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
RAFF01	RESILIENT ATHLETIC FLUID FLOORING	CONNOR SPORTS	ELASTIPLUS - HYBRID ATHLETICSURFACE	COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL	7 + 2mm THICK			GYM		NAME EMAIL

09 6816 - SHEET CARPETING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CPT01	CARPET, SHEET	TARKETT	TEXTUREMAP / 11129	NOCTURNAL / 42807				FIELD		
CPT02	CARPET, SHEET	TARKETT	MEADOWSWEET / 11365	SUN-LIT / 67506				CIRCULAR ALCOVES AT LIBRARY		STER STEPHANIE.FOSTER@TARKETT.COM 281.702.5258
CPT03	CARPET, SHEET	TARKETT	MEADOWSWEET / 11365	CUSTOM COLOR / 116277360-10		-		ALCOVES AT SCIENCE LABS		STER STEPHANIE.FOSTER@TARKETT.COM 281.702.5258
WOC01	WALK-OFF CARPET	TARKETT	ASSERTIVE ACTION / 04837	LEAD SHOT / 26207						

09 7200 - WALLCOVERINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AWC01	ACOUSTICAL WALLCOVERING	ACOUFELT	FRACTURE TWO TONE BARCODE- PREMIER	CURRANT CU59 / SLATE SL27	48"x108"x12mm THICK			BACK WALL OF RECESSED SEATING AREA		NAME EMAIL PHONE
AWC02	ACOUSTICAL WALLCOVERING	ACOUFELT	FRACTURE TWO TONE BARCODE- PREMIER	POPCORN PO26 / SLATE SL27	48"x108"x12mm THICK			BACK WALL OF SEAT UNDER THE STAIR		
AWC03	ACOUSTICAL WALLCOVERING	ACOUFELT	FRACTURE-SPIROGRAPH	ALMOND AL55 / POPCORN PO26	48"x108"x24mm THICK		LAYOUT 3	WALL AT PLATFORM		

09 7223 - CUSTOM DIGITAL WALLCOVERING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CDW01	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	MYSTICAL	CUSTOM DIGITAL ARTWORK		EMBOSSED				NAME EMAIL PHONE
CDW02	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	MYSTICAL	CUSTOM DIGITAL ARTWORK		EMBOSSED				NAME EMAIL PHONE
CDW03	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	MYSTICAL	CUSTOM DIGITAL ARTWORK		EMBOSSED				
CDW04	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	MYSTICAL	CUSTOM DIGITAL ARTWORK		EMBOSSED				
CDW05	CUSTOM DIGITAL WALLCOVERING	DREAMSCAPE	MYSTICAL	CUSTOM DIGITAL ARTWORK		EMBOSSED				

09 7400 - LINEAR WOOD WALL SYSTEM

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
LWS01	LINEAR WALL SYSTEM	ARMSTRONG CEILINGS	ENCORE SERIES 1	PL02	8" GROOVE SPACIN/ 7.5" PLANK			LIBRARY WALL AND CEILING		NAME EMAIL PHONE

REFER TO PROJECT SPECIFICATIONS SECTION 09 9000 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY - ## (MATERIAL TYPE / FINISH COLOR AND MATERIAL SIZE AS NOTED)

ACB - ACOUSTICAL CEILING BAFFLE
ACC - ACOUSTICAL CEILING CLOUD
ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM (DOORS AND FRAMES)
AP - ACOUSTICAL PANELS
AWC - ACOUSTICAL WALL COVERING
B - HORIZONTAL BLINDS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTG - BACK-PAINTED, TEMPERED GLASS
BTM - BASE, TILE, MOSAIC
BTP - BASE, TILE, PORCELAIN
BTQ - BASE, TILE, QUARRY
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
BVSF - BASE, VINYL SHEET FLOORING
CC - CUBICLE CURTAIN
CCD - COILING COUNTER DOOR
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDF - CUSTOM DIGITAL FILM
CDW - CUSTOM DIGITAL WALLCOVERINGS
CG - CORNER GUARD
COP - CONCRETE, POLISHED
COS - CONCRETE, SEALED
COST - CONCRETE, STAINED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CSMU - CALCIUM SILICATE MASONRY UNIT
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
DCT - DECORATIVE CONTRETE TOPPING
DEW - DRY ERASE WALLCOVERING
EPNT - EPOXY PAINT
ERC - EPOXY RESIN COUNTERTOP
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
FSS - FIXED SUN SCREENS
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
HM - HOLLOW METAL
IFP - INTUMESCENT FIRE PROTECTION
L - LAY-IN SUSPENDED CEILING TILE
LCK - LOCKERS
LCS - LINEAR CEILING SYSTEM
LF - LINOLEUM FLOORING
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MRP - METAL ROOF PANEL
MS - METAL SOFFIT
NS - NATURAL STONE
OCD - OVERHEAD COILING DOOR
OCG - OVERHEAD COILING GRILLE
OHGL - OVERHEAD GLASS DOOR
OP - OPERABLE PARTITION
PC - PROTECTIVE COVERS
PCP - PORTLAND CEMENT PLASTER
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
PWC - PAINT, WOOD CASEWORK
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFS - RUBBER ATHLETIC FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RP - RESIN PANEL
RS - RUBBER SHEET
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
S - WINDOW SHADES
SAC - SEAMLESS ACOUSTICAL CEILING SYSTEM
SB - BLACKOUT WINDOW SHADES
SC - SOLID CORE (DOOR)
SM - MOTORIZED WINDOW SHADES
SMB - MOTORIZED BLACKOUT WINDOW SHADES
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SS - STAINLESS STEEL
SSM - SOLID SURFACE MATERIAL
STG - STAGE CURTAIN
TAP - TOILET ACCESSORY, PARTITION
TB - TACK BOARD
TC - TILE, CERAMIC
TM - TILE, MOSAIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TRC - TERRACOTTA RAINSCREEN CLADDING
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - VINYL COMPOSITION TILE
VSF - VINYL SHEET FLOORING
VTR - VINYL TREADS AND RISERS
VWC - VINYL WALL COVERING
WAF - WOOD ATHLETIC FLOORING
WDF - WOOD FLOORING
WMS - WOOD MASONITE FLOOR SYSTEM
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE
WVC - WOOD VENEER CASEWORK

FINISH KEY (NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT

G5 - SCHEDULE OF MATERIALS & COLORS

11d	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES.	CONTACT

09 8400 - ACOUSTICAL PANELS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AP01	ACOUSTICAL PANELS	MAHARAM	DELTA	001 SNOWBLIND						
AP02	ACOUSTICAL PANELS	MAHARAM	DELTA	004 CANDID						
AP03	ACOUSTICAL PANELS	MAHARAM	DELTA	006 ANONYMOUS						
AP04	ACOUSTICAL PANELS	MAHARAM	BECK / 466570	034 LAMBIC						NAME EMAIL PHONE
AP05	ACOUSTICAL PANELS	MAHARAM	BECK / 466570	043 LINGONBERRY						NAME EMAIL PHONE
ACB01	ACOUSTICAL CEILING BAFFLE	FRASCH	BAFL - CUSTOM SHAPE	OFF WHITE				LIBRARY	COORDINATE FIRE SUPPRESSION REQUIREMENTS AND MOUNTING HEIGHTS WITH ARCHITECT AND MEP ENGINEER	NAME EMAIL PHONE
AWB01	ACOUSTICAL WALL BAFFLE	ACOUFELT	SOFTEN UP / FOOOTHILL	CURRANT CU5				LIBRARY NOOKS	REFER TO INTERIOR ELEVATIONS FOR PATTERN	
AWB02	ACOUSTICAL WALL BAFFLE	ACOUFELT	SOFTEN UP / FOOOTHILL	POPCORN PO26				LIBRARY NOOKS	REFER TO INTERIOR ELEVATIONS FOR PATTERN	
AWB03	ACOUSTICAL WALL BAFFLE	ACOUFELT	SOFTEN UP / FOOOTHILL	ALMOND AL55				LIBRARY NOOKS	REFER TO INTERIOR ELEVATIONS FOR PATTERN	

09 9000 - PAINTING AND COATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
EPNT01	PAINT, EPOXY	SHERWIN WILLIAMS		MATCH PNT01						NAME EMAIL PHONE
EPNT02	PAINT, EPOXY	SHERWIN WILLIAMS								NAME EMAIL PHONE
PNT01	PAINT	SHERWIN WILLIAMS		ORIGAMI WHITE / SW7636						NAME EMAIL PHONE
PNT02	PAINT	SHERWIN WILLIAMS		ELEPHANT EAR / SW7022						NAME EMAIL PHONE
PNT03	PAINT	SHERWIN WILLIAMS		CORDIAL / SW6306						NAME EMAIL PHONE
PNT04	PAINT,	SHERWIN WILLIAMS		CEREMONIAL GOLD / SW6382						NAME EMAIL PHONE
PNT05	PAINT	SHERWIN WILLIAMS		IRON ORE / SW7069						
PNT06	PAINT	SHERWIN WILLIAMS		HIGH REFLECTIVE WHITE / SW7757						NAME EMAIL PHONE
PNT07	PAINT	SHERWIN WILLIAMS		LOGGIA / SW7506						
PNT08	PAINT	SHERWIN WILLIAMS		PEPPERCORN / SW7674				LIBRARY SCREEN HSS MEMBERS		

DIVISION 10 - SPECIALTIES
10 1100 - VISUAL DISPLAY UNITS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MB	MARKER BOARD			CLEAR ANODIZED						NAME EMAIL PHONE
TB	TACK BOARD	KOROSEAL	TAC-WALL	EARTHEN / 08						NAME EMAIL PHONE
TS	TACKABLE SURFACE								*** SOME TACKABLE SURFACE REQUIRES A LEVEL 5 GYPSUM BOARD FINISH. NOTE THAT HERE IF REQUIRED.***	NAME EMAIL PHONE
	DISPLAY CASES			CLEAR ANODIZED						NAME EMAIL PHONE
	DISPLAY CASES TACKABLE SURFACE			COLOR TO BE SELECTED FROM MANUF. FULL RANGE OF COLOR OPTION BY SUBMITTAL						NAME EMAIL PHONE

10 1400 - SIGNAGE

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	EXTERIOR SIGNAGE									
	INTERIOR ROOM SIGNS / TOP	PL01					REF A8 SERIES FOR ROOM NAME AND NUMBER			
	INTERIOR ROOM SIGNS / BOTTOM	PL01					REF A8 SERIES FOR ROOM NAME AND NUMBER			
	INTERIOR ROOM SIGNS / DEMARCATION LINE	MATCH PNT05					REF A8 SERIES FOR ROOM NAME AND NUMBER			
	INTERIOR ROOM SIGNS / LETTERS	MATCH PNT05					REF A8 SERIES FOR ROOM NAME AND NUMBER			
	INTERIOR ROOM SIGNS / EDGE	PL01					REF A8 SERIES FOR ROOM NAME AND NUMBER			

10 2113.19 - PLASTIC TOILET COMPARTMENTS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
TAP	TOILET ACCESSORY, PARTITION	ASI	COLOR-THRU PHENOLIC	CHARCOAL 3077					CLASS A, NFPA 286; COLOR THRU PANELS w/ VANDAL RESISTANT TOP	

10 2123 - CUBICLE CURTAINS AND TRACK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CC	CUBICLE CURTAIN	INPRO	SOFETTI	PEBBLE						

10 2239 - FOLDING PANEL PARTITIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
OP	OPERABLE PARTITION					FULL HEIGHT MARKERBOARD				NAME EMAIL PHONE

10 2241 - OPERABLE GLASS PARTITIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
OGP	OPERABLE PARTITION			CLEAR ANODIZED						NAME EMAIL PHONE

10 2600 - WALL AND DOOR PROTECTION

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CG	CORNER GUARD	ACROVYN		TBD			CORNER GUARD TO SPAN FROM FINISH FLOOR TO 8'-0" AFF.			NAME EMAIL PHONE

10 5100 - LOCKERS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
LCK	LOCKERS			BLACK	TYPE A - REF.A8.30			MAIN CUSTODIAL & KITCHEN		NAME EMAIL PHONE

10 7113.43 - FIXED SUN SCREENS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
FSS	FIXED SUN SCREENS			CLEAR ANODIZED			INTEGRAL TO STOREFRONT SYSTEM			NAME EMAIL PHONE

10 7300 - PROTECTIVE COVERS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PC	PROTECTIVE COVERS			CLEAR ANODIZED						NAME EMAIL PHONE

10 7340 - FABRIC SUN SHADES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
FSC	FABRIC SHADE CANOPIES			CONFIRM WITH OWNER FROM STANDARD COLORS						NAME

DIVISION 11 - EQUIPMENT
11 6100 - THEATRICAL EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
STG	STAGE CURTAIN	TEXAS SCENIC	CHARISMA	RUBY / 1047						NAME EMAIL PHONE

11 6623 - GYMNASIUM EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WP01	WALL PADDING	DRAPER		MAROON						NAME EMAIL PHONE

DIVISION 12 - FURNISHINGS
12 2100 - WINDOW BLINDS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
B	HORIZONTAL BLINDS	SWF CONTRACT	S3000 1" CORDLESS MINI BLINDS	ALMOST WHITE GLOSS 065	1"		AT ALL LOCATIONS PLACE BLINDS INSIDE OF FRAME	REFER TO FINISH PLANS FOR LOCATIONS	MANUAL PUSH/PULL LIFT	NAME EMAIL PHONE

12 2400 - WINDOW SHADES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
S	WINDOW SHADES	MECHO SHADE	MECHO/5 SYSTEM / 1600 SERIES	SOHO / LIGHT GREY / 1603				REFER TO FINISH PLANS FOR LOCATIONS		NAME EMAIL PHONE
SM	MOTORIZED WINDOW SHADES	MECHO SHADE	ELECTRO/2 / 1600 SERIES	SOHO / LIGHT GREY / 1603				REFER TO FINISH PLANS FOR LOCATIONS		NAME EMAIL PHONE
SMB	MOTORIZED BLACKOUT WINDOW SHADES	MECHO SHADE	ELECTRO/2- CLASSIC BLACKOUT / 0700 SERIES	SOHO / LIGHT GREY 0702		LIGHT GREY ON BOTH SIDES OF SHADE CLOTH		REFER TO FINISH PLANS FOR LOCATIONS		NAME EMAIL PHONE

G5 - SCHEDULE OF MATERIALS & COLORS

11d	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES.	CONTACT

12 3200 - MANUFACTURED WOOD CASEWORK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PL01	PLASTIC LAMINATE	WILSONART		RAW COTTON / 4947-38				COUNTERTOP		NAME EMAIL PHONE
PL02	PLASTIC LAMINATE	WILSONART		WALNUT HEIGHTS / 765K-12				DOORS & DRAWERS		NAME EMAIL PHONE
PL03	PLASTIC LAMINATE	NEVAMAR		SUNRAY / S4022T		TEXTURED		CUBBIE BACKS AT LEARNING STAIR		NAME EMAIL PHONE
PL04	PLASTIC LAMINATE	NEVAMAR		BURGUNDY / S1015T		TEXTURED		CUBBIE BACKS AT LEARNING STAIR		

12 3600 - COUNTERTOPS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
QTZ01	QUARTZ SURFACING	CAMBRIA		CROWNDALE				RECEPTION DESK AND CIRCULATION DESK		NAME EMAIL PHONE
SSM01	SOLID SURFACE MATERIAL	CORIAN		SPARKLING GRANITA				WINDOW SILLS, TV RECESS SURROUND, SEATING BENCH		NAME EMAIL PHONE
SSM02	SOLID SURFACE MATERIAL	CORIAN		CARBON CONCRETE				UNDERSTAIR SEATING, CURVED CORNER AND CORRIDOR BENCH		
SSM03	SOLID SURFACE MATERIAL	CORIAN		DESIGNER WHITE				SURROUD OF PLATFORM OPENING		

12 5219 - UPHOLSTERED SEAT CUSHIONS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
UP01	UPHOLSTERY	CARNEGIE	XOREL TWINE / 6217	32						NAME EMAIL PHONE
UP02	UPHOLSTERY	MOMENTUM TEXTILE & WALLCOVERINGS	SILICA LEATHER	MARIGOLD				CUSHION SEATS AT LEARNING STAIR		
UP03	UPHOLSTERY	DESIGNTEX	SILICONE ELEMENT	OXFORD / 3919-304				CUSHION SEATS AT LEARNING STAIR		

DIVISION 14 - ELEVATORS
14 2400 - HYDRAULIC ELEVATORS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	ELEVATOR CAB FLOOR	TARKETT		LVT01						NAME EMAIL PHONE
	ELEVATOR CAB WALLS			STAINLESS STEEL						NAME EMAIL PHONE
	ELEVATOR HOISTWAY DOORS			STAINLESS STEEL						NAME EMAIL PHONE

REFER TO PROJECT SPECIFICATIONS SECTION 09 9000 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ##
MATERIAL TYPE — FINISH COLOR AND MATERIAL SIZE AS NOTED

ACB - ACOUSTICAL CEILING BAFFLE
ACC - ACOUSTICAL CEILING CLOUD
ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM (DOORS AND FRAMES)
AP - ACOUSTICAL PANELS
AWC - ACOUSTICAL WALL COVERING
B - HORIZONTAL BLINDS
BCT - BASE, COVE FLOOR-TO-WALL TRANSITION
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTG - BACK-PAINTED, TEMPERED GLASS
BTM - BASE, TILE, MOSAIC
BTP - BASE, TILE, PORCELAIN
BTQ - BASE, TILE, QUARRY
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
BVSF - BASE, VINYL SHEET FLOORING
CC - CUBICLE CURTAIN
CCD - COLIING COUNTER DOOR
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDF - CUSTOM DIGITAL FILM
CDW - CUSTOM DIGITAL WALLCOVERINGS
CG - CORNER GUARD
COP - CONCRETE, POLISHED
COS - CONCRETE, SEALED
COST - CONCRETE, STAINED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CSMU - CALCIUM SILICATE MASONRY UNIT
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
DCT - DECORATIVE CONTRETE TOPPING
DEW - DRY ERASE WALLCOVERING
EPNT - EPOXY PAINT
ERC - EPOXY RESIN COUNTERTOP
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
FSS - FIXED SUN SCREENS
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
HM - HOLLOW METAL
IFP - INTUMESCENT FIRE PROTECTION
L - LAY-IN SUSPENDED CEILING TILE
LCK - LOCKERS
LCS - LINEAR CEILING SYSTEM
LF - LINOLEUM FLOORING
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MRP - METAL ROOF PANEL
MS - METAL SOFFIT
NS - NATURAL STONE
OCD - OVERHEAD COILING DOOR
OCG - OVERHEAD COILING GRILLE
OHGL - OVERHEAD GLASS DOOR
OP - OPERABLE PARTITION
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PCP - PORTLAND CEMENT PLASTER
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FINISH KEY (NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29154 STATE OF TEXAS 7/15/2026

Huckabee www.huckabee-inc.com 800.687.1229

SCHEDULE OF MATERIALS AND COLORS

VOLUME 01

Job No. 00802-04-01
Drawn By: CB,MA
Date: 07.15.26
Sheet No. G5.02

7/15/2026 4:07:29 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

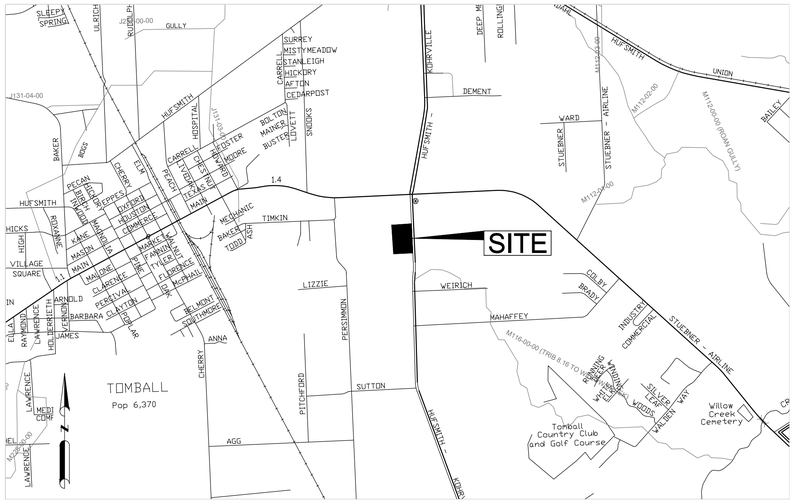
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT

22939 HUFSMITH KOHRVILLE ROAD, TOMBALL, TX 77375

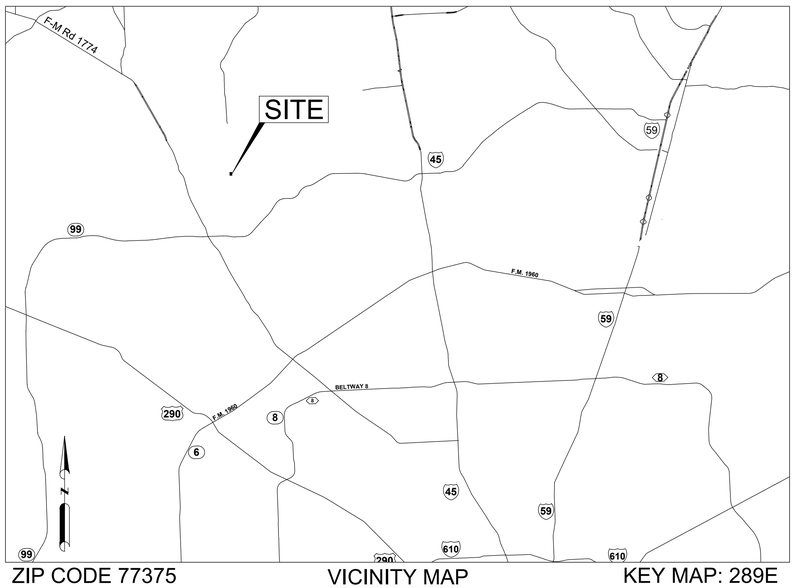
WITHIN HARRIS COUNTY, TX
CONSTRUCTION PLANS
FOR PROPOSED

WATER DISTRIBUTION, SANITARY SEWER, PAVING & DRAINAGE

W,SS,P & D PLANS FOR
(TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT)



SITE MAP
SCALE: 1"=2,000'



ZIP CODE 77375 — VICINITY MAP — KEY MAP: 289E
SCALE: 1"=20,000'

JULY 2026

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756

2500 Tanglewilde, Suite 120
Houston, Texas 77063
713.789.1900

4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

WGA PROJECT NO. 00788-002
CITY OF TOMBALL PROJECT NO. SP26-025

DRAWING INDEX

SHEET NO.	TITLE
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C0.2	PLAT 2 OF 3 (FOR REFERENCE ONLY)
C0.3	PLAT 3 OF 3 (FOR REFERENCE ONLY)
C0.4	TOPOGRAPHIC SURVEY 1 OF 4 (FOR REFERENCE ONLY)
C0.5	TOPOGRAPHIC SURVEY 2 OF 4 (FOR REFERENCE ONLY)
C0.6	TOPOGRAPHIC SURVEY 3 OF 4 (FOR REFERENCE ONLY)
C0.7	TOPOGRAPHIC SURVEY 4 OF 4 (FOR REFERENCE ONLY)
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C1.2	GENERAL NOTES
C1.3	OVERALL LAYOUT
C1.4	DEMOLITION PLAN
C2.1	STORM WATER POLLUTION PREVENTION PLAN
C2.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
C3.1	DIMENSION CONTROL & SIGNAGE PLAN (1 OF 2)
C3.2	DIMENSION CONTROL & SIGNAGE PLAN (2 OF 2)
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C8.1	PAVING DETAILS (1 OF 3)
C8.2	PAVING DETAILS (2 OF 3)
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L1.2	ENLARGEMENT LANDSCAPE PLAN
IR1.1	IRRIGATION PLAN
IR1.2	IRRIGATION SCHEDULES
IR1.3	IRRIGATION DETAILS

DESIGNED BY: AH/AG
CHECKED BY: SK
DRAWN BY: CT

REV	DESCRIPTION	DATE
	SIGN & SEAL SET	07-13-2026

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
(New Statewide Number Outside Houston)
1-800-344-8377

HARRIS COUNTY MAY HAVE EXISTING UNDERGROUND/OVERHEAD UTILITIES WITHIN THE PROPOSED PROJECT LIMITS. PLEASE CONTACT THE CALL CENTER AT 713-881-3210, OR SUBMIT A WORK ORDER REQUESTS THROUGH http://www.eng.hctx.net/SignalOut TO OBTAIN FIELD LOCATES.

48 HOUR NOTICE: CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ 713-274-3931 OR PUBLIC.REVIEW@HARRISCOUNYTX.GOV

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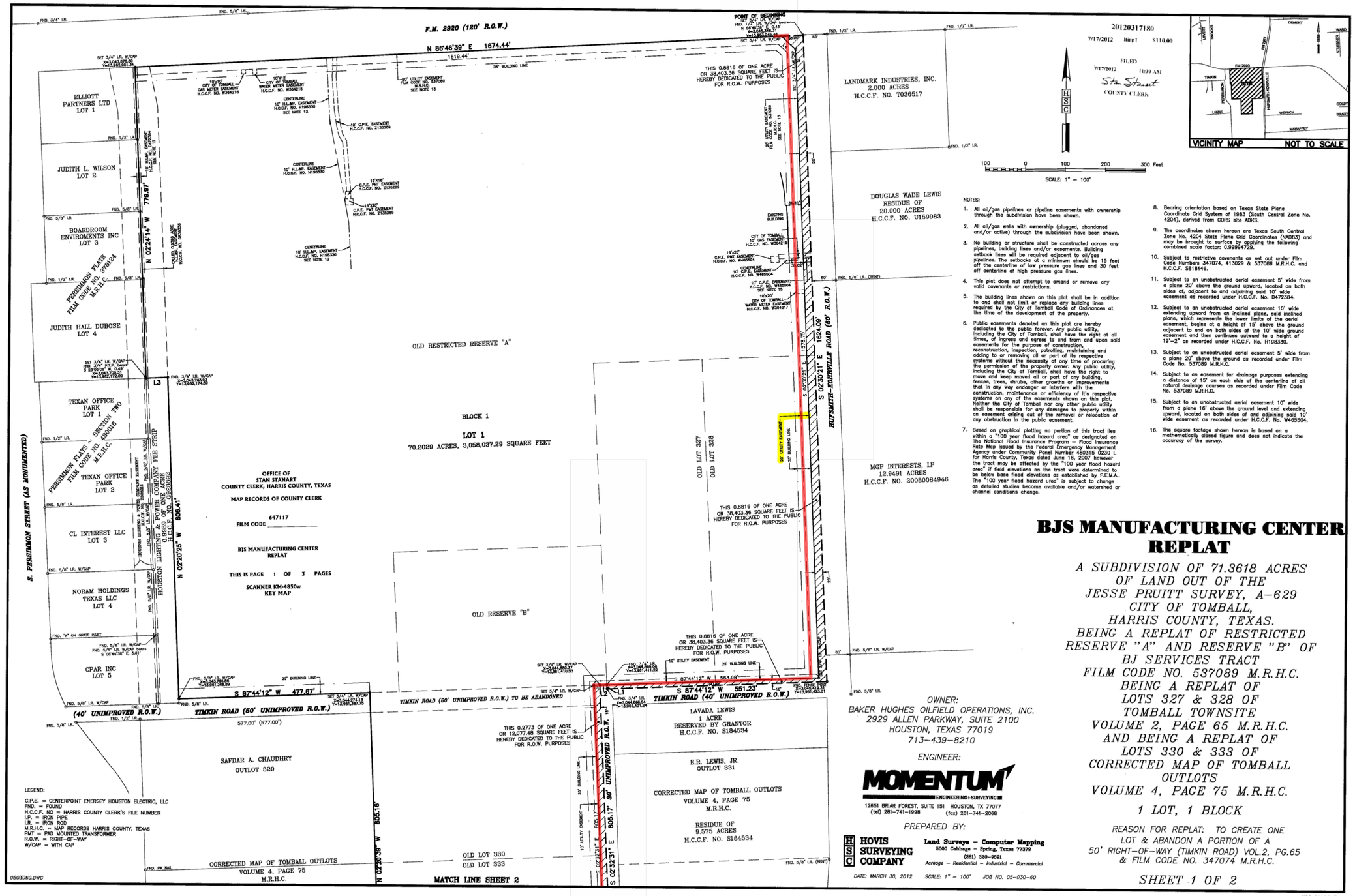

NOTES:

1. All oil/gas pipelines or pipeline easements with ownership through the subdivision have been shown.
2. All oil/gas wells with ownership (plugged, abandoned and/or active) through the subdivision have been shown.
3. No building or structure shall be constructed across any pipelines, building lines and/or easements. Building setback lines will be required adjacent to oil/gas pipelines. The setbacks at a minimum should be 15 feet off the centerline of low pressure gas lines and 30 feet off centerline of high pressure gas lines.
4. This plat does not attempt to amend or remove any valid covenants or restrictions.
5. The building lines shown on this plat shall be in addition to and shall not limit or replace any building lines required by the City of Tomball Code of Ordinances at the time of the development of the property.
6. Public easements denoted on this plat are hereby dedicated to the public forever. Any public utility, including the City of Tomball, shall have the right at all times, of ingress and egress to and from and upon said easements for the purpose of construction, reconstruction, inspection, patrolling, maintaining and adding to or removing all or part of its respective systems without the necessity of any time of procuring the permission of the property owner. Any public utility, including the City of Tomball, shall have the right to move and keep moved all or part of any building, fences, trees, shrubs, other growths or improvements that in any way endanger or interfere with the construction, maintenance or efficiency of it's respective systems on any of the easements shown on this plat. Neither the City of Tomball nor any other public utility shall be responsible for any damages to property within an easement arising out of the removal or relocation of any obstruction in the public easement.
7. Based on graphical plotting no portion of this tract lies within a "100 year flood hazard area" as designated on The National Flood Insurance Program — Flood Insurance Rate Map issued by the Federal Emergency Management Agency under Community Panel Number 480315 0230 L for Harris County, Texas dated June 18, 2007 however the tract may be affected by the "100 year flood hazard area" if field elevations on the tract were determined to be below base flood elevations as established by F.E.M.A. The "100 year flood hazard area" is subject to change as detailed studies become available and/or watershed or channel conditions change.
8. Bearing orientation based on Texas State Plane Coordinate Grid System of 1983 (South Central Zone No. 4204), derived from CORS site ADKS.
9. The coordinates shown hereon are Texas South Central Zone No. 4204 State Plane Grid Coordinates (NAD83) and may be brought to surface by applying the following combined scale factor: 0.99994729.
10. Subject to restrictive covenants as set out under Film Code Numbers 347074, 413029 & 537089 M.R.H.C. and H.C.C.F. S818446.
11. Subject to an unobstructed aerial easement 5' wide from a plane 20' above the ground upward, located on both sides of, adjacent to and adjoining said 10' wide easement as recorded under H.C.C.F. No. D472384.
12. Subject to an unobstructed aerial easement 10' wide extending upward from an inclined plane, said inclined plane, which represents the lower limits of the aerial easement, begins at a height of 15' above the ground adjacent to and on both sides of the 10' wide ground easement and then continues outward to a height of 19'-2" as recorded under H.C.C.F. No. H198330.
13. Subject to an unobstructed aerial easement 5' wide from a plane 20' above the ground as recorded under Film Code No. 537089 M.R.H.C.
14. Subject to an easement for drainage purposes extending a distance of 15' on each side of the centerline of all natural drainage courses as recorded under Film Code No. 537089 M.R.H.C.
15. Subject to an unobstructed aerial easement 10' wide from a plane 16' above the ground level and extending upward, located on both sides of and adjoining said 10' wide easement as recorded under H.C.C.F. No. W465504.
16. The square footage shown hereon is based on a mathematically closed figure and does not indicate the accuracy of the survey.

BJS MANUFACTURING CENTER REPLAT

A SUBDIVISION OF 71.3618 ACRES
OF LAND OUT OF THE
JESSE PRUITT SURVEY, A-629
CITY OF TOMBALL,
HARRIS COUNTY, TEXAS.
BEING A REPLAT OF RESTRICTED RESERVE "A" AND RESERVE "B" OF BJ SERVICES TRACT
FILM CODE NO. 537089 M.R.H.C.
BEING A REPLAT OF
LOTS 327 & 328 OF
TOMBALL TOWNSITE
VOLUME 2, PAGE 65 M.R.H.C.
AND BEING A REPLAT OF
LOTS 330 & 333 OF
CORRECTED MAP OF TOMBALL OUTLOTS
VOLUME 4, PAGE 75 M.R.H.C.

1 LOT, 1 BLOCK

REASON FOR REPLAT: TO CREATE ONE LOT & ABANDON A PORTION OF A 50' RIGHT-OF-WAY (TIMKIN ROAD) VOL.2, PG.65 & FILM CODE NO. 347074 M.R.H.C.

SHEET 1 OF 2

OWNER:
BAKER HUGHES OILFIELD OPERATIONS, INC.
2929 ALLEN PARKWAY, SUITE 2100
HOUSTON, TEXAS 77019
713-439-8210

ENGINEER:

MOMENTUM ENGINEERING+SURVEYING
12851 BRIAR FOREST, SUITE 151 HOUSTON, TX 77077
(tel) 281-741-1998 (fax) 281-741-2068

PREPARED BY:

HOVIS SURVEYING COMPANY
Land Surveys — Computer Mapping
5000 Cabbage — Spring, Texas 77379
(281) 320-9581
Acreage — Residential — Industrial — Commercial

DATE: MARCH 30, 2012 *SCALE: 1" = 100'* *JOB NO. 05-030-60*

HSC 01995-E

Revision / S&S — Date 07/13/2026

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Project:

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

PLAT 1 OF 3
VOLUME 01

Job No. 00788-002	Sheet No. C0.1
Drawn By: CT	
Date: 07.15.26	

S&S

11/19/2025 8:39:50 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C0.1-0.3 Plat (For Reference Only).dwg Last Plotted: Wed Jul 15, 2026 - 9:54am By: dhuerta

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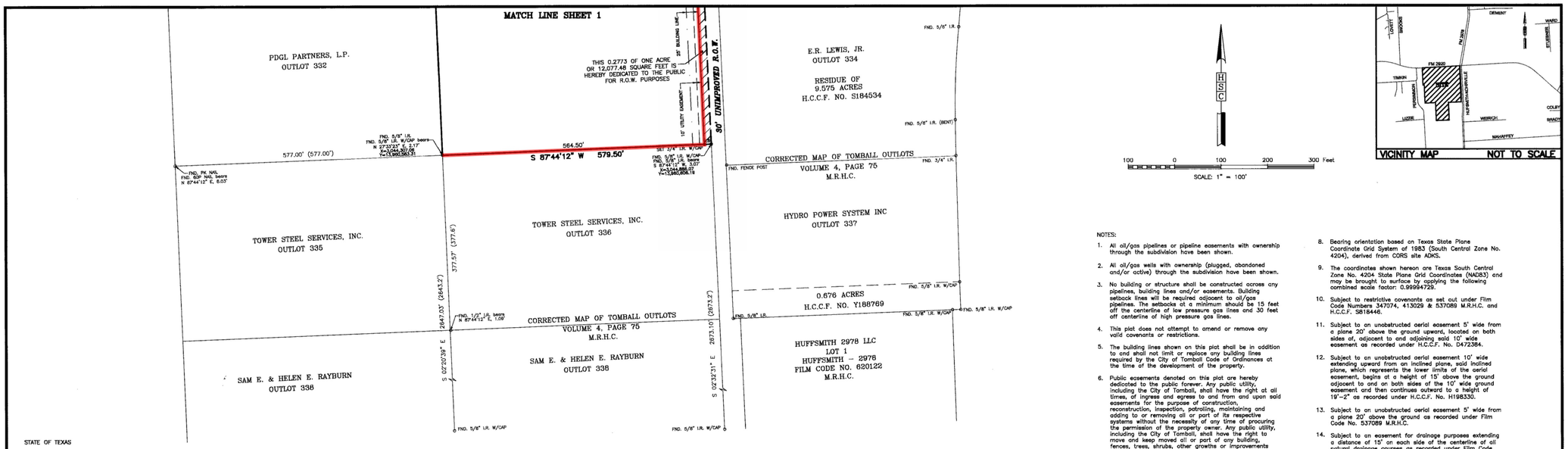

NOTES:

1. All oil/gas pipelines or pipeline easements with ownership through the subdivision have been shown.
2. All oil/gas wells with ownership (plugged, abandoned and/or active) through the subdivision have been shown.
3. No building or structure shall be constructed across any pipelines, building lines and/or easements. Building setback lines will be required adjacent to oil/gas pipelines. The setbacks at a minimum should be 15 feet off the centerline of low pressure gas lines and 30 feet off centerline of high pressure gas lines.
4. This plat does not attempt to amend or remove any valid covenants or restrictions.
5. The building lines shown on this plat shall be in addition to and shall not limit or replace any building lines required by the City of Tomball Code of Ordinances at the time of the development of the property.
6. Public easements denoted on this plat are hereby dedicated to the public forever. Any public utility, including the City of Tomball, shall have the right at all times, of ingress and egress to and from and upon said easements for the purpose of construction, reconstruction, inspection, patrolling, maintaining and adding to or removing all or part of its respective systems without the necessity of any time of procuring the permission of the property owner. Any public utility, including the City of Tomball, shall have the right to move and keep moved all or part of any building, fences, trees, shrubs, other growths or improvements that in any way endanger or interfere with the construction, maintenance or efficiency of it's respective systems on any of the easements shown on this plat. Neither the City of Tomball nor any other public utility shall be responsible for any damages to property within an easement arising out of the removal or relocation of any obstruction in the public easement.
7. Based on graphical plotting no portion of this tract lies within a "100 year flood hazard area" as designated on The National Flood Insurance Program – Flood Insurance Rate Map issued by the Federal Emergency Management Agency under Community Panel Number 480315 0230 L for Harris County, Texas dated June 18, 2007 however the tract may be affected by the "100 year flood hazard area" if field elevations on the tract were determined to be below base flood elevations as established by F.E.M.A.. The "100 year flood hazard area" is subject to change as detailed studies become available and/or watershed or channel conditions change.
8. Bearing orientation based on Texas State Plane Coordinate Grid System of 1983 (South Central Zone No. 4204), derived from CORS site ADKS.
9. The coordinates shown hereon are Texas South Central Zone No. 4204 State Plane Grid Coordinates (NAD83) and may be brought to surface by applying the following combined scale factor: 0.99994729.
10. Subject to restrictive covenants as set out under Film Code Numbers 347074, 413029 & 537089 M.R.H.C. and H.C.C.F. S818446.
11. Subject to an unobstructed aerial easement 5' wide from a plane 20' above the ground upward, located on both sides of, adjacent to and adjoining said 10' wide easement as recorded under H.C.C.F. No. D472364.
12. Subject to an unobstructed aerial easement 10' wide extending upward from an inclined plane, said inclined plane, which represents the lower limits of the aerial easement, begins at a height of 15' above the ground adjacent to and on both sides of the 10' wide ground easement and then continues outward to a height of 19'-2" as recorded under H.C.C.F. No. H198330.
13. Subject to an unobstructed aerial easement 5' wide from a plane 20' above the ground as recorded under Film Code No. 537089 M.R.H.C.
14. Subject to an easement for drainage purposes extending a distance of 15' on each side of the centerline of all natural drainage courses as recorded under Film Code No. 537089 M.R.H.C.
15. Subject to an unobstructed aerial easement 10' wide from a plane 16' above the ground level and extending upward, located on both sides of and adjoining said 10' wide easement as recorded under H.C.C.F. No. W465504.
16. The square footage shown hereon is based on a mathematically closed figure and does not indicate the accuracy of the survey.

STATE OF TEXAS

COUNTY OF HARRIS

We, Baker Hughes Oilfield Operations, Inc., acting by and through David E. Emerson, Vice President and Susan Diane Koontz, Assistant Secretary, being officers of Baker Hughes Oilfield Operations, Inc., owner, hereinafter referred to as Owner of the 71.362 acre tract described in the above and foregoing map of BJS MANUFACTURING CENTER REPLAT, do hereby make and establish said subdivision said property according to all liens, dedications, restrictions, and notations on said plat and hereby dedicate to the use of the public forever, all streets, alleys, parks, watercourses, drains, easements and public places shown thereon for the purposes and considerations therein expressed; and do hereby bind ourselves, our heirs, successors and assigns to warrant and forever defend the title to the land so dedicated.

FURTHER, Owner has dedicated and by these presents does dedicate to the use of the public for public utility purposes forever an unobstructed aerial easement five feet in width from a plane twenty feet (20') above the ground level upward, located adjacent to all public utility easements shown hereon.

IN TESTIMONY WHEREOF, Baker Hughes Oilfield Operations, Inc. has caused these presents to be signed by David E. Emerson, its Vice President, thereunto authorized, attested by its Assistant Secretary, Susan Diane Koontz, this 22nd day of JUNE, 2012.

Baker Hughes Oilfield Operations, Inc.

By: _____
David E. Emerson, Vice President

Attest: _____
Susan Diane Koontz, Assistant Secretary

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared, David E. Emerson, Vice President of Baker Hughes Oilfield Operations, Inc., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed and in the capacity therein and herein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 22nd day of JUNE, 2012

_____
Notary Public in and for the State of Texas

My Commission expires: _____

ELLEN S ROTH
Notary Public, State of Texas
My Commission Expires
November 07, 2015

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared, Susan Diane Koontz, Assistant Secretary of Baker Hughes Oilfield Operations, Inc., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purposes and considerations therein expressed and in the capacity therein and herein stated and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 22nd day of JUNE, 2012

_____
Notary Public in and for the State of Texas

My Commission expires: _____

ELLEN S ROTH
Notary Public, State of Texas
My Commission Expires
November 07, 2015

I, Mary M. McKenzie, am registered under the laws of the State of Texas to practice the profession of surveying and hereby certify that the above subdivision is true and correct; was prepared from an actual survey of the property made under my supervision on the ground; that all boundary corners, angle points, points of curvature and other points of reference have been marked with iron (or other suitable permanent metal) pipes or rods having an outside diameter of not less than three quarter (3/4) inch and a length of not less than three (3) feet, except where corners were found; and that the plat boundary corners have been tied to the Texas South Central Zone No. 4204 State Plane Grid Coordinates (NAD83).

STATE OF TEXAS
REGISTERED
MARY M. McKENZIE
6123
PROFESSIONAL
LAND SURVEYOR

Mary M. McKenzie
Texas Registration No. 6123

This is to certify that the Planning & Zoning Commission of the City of Tomball, Texas, has approved this plat and the subdivision of BJS MANUFACTURING CENTER REPLAT in conformance with he laws of the State of Texas and the ordinances of the City of Tomball as shown hereon and authorized the recording of this plat this 26th day of JUNE, 2012.

Lori Wallace
Chairman

Evelyn Chervenak
Vice Chairman

We, the City Manager and the City Engineer for the City of Tomball, do hereby certify that this plat complies with the City of Tomball ordinances.

George Shadrock
City Manager

Lori Lakatos, P.E.
Acting City Engineer

This is to certify that the City accepts the Planning & Zoning Commission's authorized approval and acceptance of all of the dedicated public easements in conformance with the laws of the State of Texas and the ordinances of the City of Tomball as shown hereon and authorizes the recording of this plat, this 2nd day of JULY, 2012.

Gretchen Fagan
Mayor

Darla Speer
City Secretary

I, Stan Stanart, County Clerk of Harris County, do hereby certify that the within instrument with its certificate of authentication was filed for registration in my office on July 5th, 2012, at 11:39 o'clock A.M. and duly recorded on July 6th, 2012, at 7:35 o'clock A.M., and at Film Code Number 647118 of the Map Records of Harris County for said county.

Witness my hand and seal of office, at Houston, the day and date last above written.

This certificate is valid only as to the instrument on which the original signature is affixed and only then to the extent that such instrument is not altered or changed after recording.

ANY PROVISION HEREIN WHICH RESTRICT THE SALE, RENTAL OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW

STAN STANART
Stan Stanart
County Clerk
of Harris County, Texas

By: _____ Deputy EDWINA V. MACK

HARRIS COUNTY, TEXAS

LINE	DISTANCE	BEARING
L1	10.00'	N 02°45'28" W
L2	17.71'	S 87°44'12" W
L3	54.68'	S 87°23'14" W
L4	49.19'	S 47°51'51" E
L5	15.00'	S 87°44'12" W
L6	15.00'	S 87°44'12" W

OFFICE OF
STAN STANART
COUNTY CLERK, HARRIS COUNTY, TEXAS

MAP RECORDS OF COUNTY CLERK

647118
FILM CODE _____

BJS MANUFACTURING CENTER
REPLAT

THIS IS PAGE 2 OF 3 PAGES

SCANNER KM-4850w
KEY MAP

RECORDER'S MEMORANDUM
At the time of recordation, this instrument was found to be inadequate for the best photographic reproduction because of illegibility, carbon or photo copy, discolored paper, etc. All blackouts, additions and changes were present at the time the instrument was filed and recorded.

BJS MANUFACTURING CENTER REPLAT

A SUBDIVISION OF 71.3618 ACRES OF LAND OUT OF THE JESSE PRUITT SURVEY, A-629 CITY OF TOMBALL, HARRIS COUNTY, TEXAS. BEING A REPLAT OF RESTRICTED RESERVE "A" AND RESERVE "B" OF BJ SERVICES TRACT FILM CODE NO. 537089 M.R.H.C. BEING A REPLAT OF LOTS 327 & 328 OF TOMBALL TOWNSITE VOLUME 2, PAGE 65 M.R.H.C. AND BEING A REPLAT OF LOTS 330 & 333 OF CORRECTED MAP OF TOMBALL OUTLOTS VOLUME 4, PAGE 75 M.R.H.C.

1 LOT, 1 BLOCK

REASON FOR REPLAT: TO CREATE ONE LOT & ABANDON A PORTION OF A 50' RIGHT-OF-WAY (TIMKIN ROAD) VOL.2, PG.65 & FILM CODE NO. 347074 M.R.H.C.

SHEET 2 OF 2

OWNER:
BAKER HUGHES OILFIELD OPERATIONS, INC.
2929 ALLEN PARKWAY, SUITE 2100
HOUSTON, TEXAS 77019
713-439-8210

ENGINEER:

MOMENTUM ENGINEERING+SURVEYING
12851 BRIAR FOREST, SUITE 151 HOUSTON, TX 77077
(tel) 281-741-1998 (fax) 281-741-2068

PREPARED BY:

HOVIS SURVEYING COMPANY
Land Surveys – Computer Mapping
5000 Cabbage – Spring, Texas 77379
(281) 320-9591
Acreage – Residential – Industrial – Commercial
DATE: MARCH 30, 2012 *SCALE: 1" = 100'* *JOB NO. 05-030-60*

0503060.DWG

HSC 01995-E-1

Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

PLAT 2 OF 3
VOLUME 01

Job No. 00788-002	Sheet No. C0.2
Drawn By: CT	
Date: 07.15.26	

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C0.1-0.3 Plat (For Reference Only).dwg Last Plotted: Wed Jul 15, 2026 – 9:54am By: dtuerta

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TAX CERTIFICATE

DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1001 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

Legal Description:
RES A
(LAND ACCT*1242490010001)
(TAX ABATEMENT EXPIRED 2009)
B J SERVICES COMPANY

Parcel Address: 11211 FM 2920 RD
Legal Acres: .0000

>--
Account Number: **117-224-000-0003**
Certificate No: 11813757
Certificate Fee: $10.00
<--

Print Date: 02/21/2012
Paid Date:
Issue Date: 02/21/2012
Operator ID: AZURITA

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2011. ALL TAXES ARE PAID IN FULL

Exemptions:

Certified Owner:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

2011 Value:	12,997,940
2011 Levy:	$82,739.81
2011 Levy Balance:	$0.00
Prior Year Levy Balance:	$0.00
Total Levy Due:	$0.00
P&I + Attorney Fee:	$0.00
Total Amount Due:	$0.00

Certified Tax Unit(s):
40 Harris County
41 Harris County Flood Control Dist
42 Port of Houston Authority
43 Harris County Hospital District
44 Harris County Dept. of Education

Reference (GF) No: N/A
Issued By:
DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent_tax_certificate.rdf v1.69

TAX CERTIFICATE

DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1001 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

Legal Description:
RES A
(LAND ACCT*1242490010001)
(TAX ABATEMENT EXPIRED 2009)
B J SERVICES COMPANY

Parcel Address: 11211 FM 2920 RD
Legal Acres: .0000

>--
Account Number: **117-224-000-0004**
Certificate No: 11813756
Certificate Fee: $10.00
<--

Print Date: 02/21/2012
Paid Date:
Issue Date: 02/21/2012
Operator ID: AZURITA

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2011. ALL TAXES ARE PAID IN FULL

Exemptions:

Certified Owner:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

2011 Value:	12,997,940
2011 Levy:	$44,382.12
2011 Levy Balance:	$0.00
Prior Year Levy Balance:	$0.00
Total Levy Due:	$0.00
P&I + Attorney Fee:	$0.00
Total Amount Due:	$0.00

Certified Tax Unit(s):
83 City of Tomball

Reference (GF) No: N/A
Issued By:
DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent_tax_certificate.rdf v1.69

TAX CERTIFICATE

DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1001 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

Legal Description:
RES A
(LAND ACCT*1242490010001)
(IMPS ONLY)
B J SERVICES COMPANY

Parcel Address: 11211 FM 2920 RD
Legal Acres: .0000

>--
Account Number: **117-224-000-0005**
Certificate No: 11813755
Certificate Fee: $10.00
<--

Print Date: 02/21/2012
Paid Date:
Issue Date: 02/21/2012
Operator ID: AZURITA

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2011. ALL TAXES ARE PAID IN FULL

Exemptions:

Certified Owner:
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON , TX 77210-4442

2011 Value:	12,997,940
2011 Levy:	$22,226.48
2011 Levy Balance:	$0.00
Prior Year Levy Balance:	$0.00
Total Levy Due:	$0.00
P&I + Attorney Fee:	$0.00
Total Amount Due:	$0.00

Certified Tax Unit(s):
45 Lone Star College System
679 Emergency Service Dist #8 (E.M.S.)

Reference (GF) No: N/A
Issued By:
DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent_tax_certificate.rdf v1.69

TAX CERTIFICATE FOR ACCOUNT : 1172240000005
AD NUMBER: 1172240000005
GF NUMBER:
CERTIFICATE NO : 1574219

COLLECTING AGENCY
Brian Ludwig
PO Box 276
Tomball TX 77377-0276

REQUESTED BY
BJ SERVICES COMPANY USA

PO BOX 4442
HOUSTON TX 772104442

PAGE 1 OF 1

DATE : 2/15/2012
FEE : $10.00

PROPERTY DESCRIPTION
RES A
(LAND ACCT*1242490010001)
(IMPS ONLY)
B J SERVICES COMPANY
0011211 FM 2920 RD
0 ACRES

PROPERTY OWNER
BJ SERVICES COMPANY USA
ATTN: MARK A COX
PO BOX 4442
HOUSTON TX 772104442

THIS IS TO CERTIFY THAT THE AD VALOREM RECORDS OF THE TOMBALL ISD TAX ASSESSOR-COLLECTOR REFLECT THE TAX, INTEREST, AND OTHER STATUTORY FEES THAT HAVE BEEN ASSESSED AND ARE NOW DUE TO THE TAXING ENTITIES AND FOR THE YEARS SET OUT BELOW FOR THE DESCRIBED PROPERTY HEREIN. THE TAX ASSESSOR-COLLECTOR MAKES NO CERTIFICATION AS TO THE AMOUNT OF TAX, PENALTY, INTEREST, OR OTHER FEES ASSESSED BY OR DUE ANY TAXING ENTITY FOR THE YEAR OR YEARS FOR WHICH THE TAX ASSESSOR-COLLECTOR DID NOT HAVE THE STATUTORY DUTY TO COLLECT OR KEEP RECORDS OF SUCH COLLECTION. ADDITIONAL TAXES MAY BECOME DUE ON THE DESCRIBED PROPERTY, WHICH ARE NOT REFLECTED HEREIN, IF THE SAID DESCRIBED PROPERTY HAS OR IS RECEIVING ANY SPECIAL STATUTORY VALUATIONS THAT MAY TRIGGER TAX ROLLBACK PROVISIONS. THIS CERTIFICATE APPLIES TO ADVALOREM TAXES ONLY AND DOES NOT APPLY TO ANY SPECIAL ASSESSMENT LEVIES.

CURRENT VALUES			
LAND MKT VALUE:	0	IMPROVEMENT :	12,997,940
AG LAND VALUE:	0	DEF HOMESTEAD:	0
APPRAISED VALUE:	12,997,940	LIMITED VALUE:	0
EXEMPTIONS:			
LAWSUITS:			

YEAR	TAX UNIT	LEVY	PEN	INT	DEF INT	ATTY	AMOUNT DUE
2011	TOMBALL I.S.D.	0.00	0.00	0.00	0.00	0.00	0.00
						2011 SUB TOTAL	$0.00

TOTAL CERTIFIED TAX DUE 2/2012 : **$ 0.00**

ISSUED TO : BJ SERVICES COMPANY USA
ACCOUNT NUMBER: 1172240000005

CERTIFIED BY: _____ TOMBALL I.S.D.

This is a statement from the Tax Collector of Tomball I.S.D., indicating that the taxes to be imposed on account number 1172240000005 by Tomball Independent School District for the 2012 tax year have not been calculated as of the above date.

TAX CERTIFICATE

DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1001 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
BJ SERVICES COMPANY USA
PO BOX 4442
HOUSTON , TX 77210-4442

Legal Description:
RES A BLK 1 (IMPS ONLY)
(LAND*1242490010001)
(POLLUTION CONTROL)
B J SERVICES TRACT

Parcel Address: 11211 FM 2920 RD
Legal Acres: .0000

>--
Account Number: **124-249-001-0003**
Certificate No: 11813758
Certificate Fee: $10.00
<--

Print Date: 02/21/2012
Paid Date:
Issue Date: 02/21/2012
Operator ID: AZURITA

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2011. ALL TAXES ARE PAID IN FULL

Exemptions:
POLLUTION CONTROL

Certified Owner:
BJ SERVICES COMPANY USA
PO BOX 4442
HOUSTON , TX 77210-4442

2011 Value:	704,060
2011 Levy:	$0.00
2011 Levy Balance:	$0.00
Prior Year Levy Balance:	$0.00
Total Levy Due:	$0.00
P&I + Attorney Fee:	$0.00
Total Amount Due:	$0.00

Certified Tax Unit(s):
40 Harris County
41 Harris County Flood Control Dist
42 Port of Houston Authority
43 Harris County Hospital District
44 Harris County Dept. of Education
45 Lone Star College System
83 City of Tomball
679 Emergency Service Dist #8 (E.M.S.)

Reference (GF) No: N/A
Issued By:
DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent_tax_certificate.rdf v1.69

TAX CERTIFICATE FOR ACCOUNT : 1242490010001
AD NUMBER: 1242490010001
GF NUMBER:
CERTIFICATE NO : 1574217

COLLECTING AGENCY
Brian Ludwig
PO Box 276
Tomball TX 77377-0276

REQUESTED BY
B J SERVICES COMPANY USA

PO BOX 4442
HOUSTON TX 772104442

PAGE 1 OF 1

DATE : 2/15/2012
FEE : $10.00

PROPERTY DESCRIPTION
RES A BLK 1
PC IMPS*1242490010003)
B J SERVICES TRACT

0011211 FM 2920 RD
46.11 ACRES

PROPERTY OWNER
B J SERVICES COMPANY USA

PO BOX 4442
HOUSTON TX 772104442

THIS IS TO CERTIFY THAT THE AD VALOREM RECORDS OF THE TOMBALL ISD TAX ASSESSOR-COLLECTOR REFLECT THE TAX, INTEREST, AND OTHER STATUTORY FEES THAT HAVE BEEN ASSESSED AND ARE NOW DUE TO THE TAXING ENTITIES AND FOR THE YEARS SET OUT BELOW FOR THE DESCRIBED PROPERTY HEREIN. THE TAX ASSESSOR-COLLECTOR MAKES NO CERTIFICATION AS TO THE AMOUNT OF TAX, PENALTY, INTEREST, OR OTHER FEES ASSESSED BY OR DUE ANY TAXING ENTITY FOR THE YEAR OR YEARS FOR WHICH THE TAX ASSESSOR-COLLECTOR DID NOT HAVE THE STATUTORY DUTY TO COLLECT OR KEEP RECORDS OF SUCH COLLECTION. ADDITIONAL TAXES MAY BECOME DUE ON THE DESCRIBED PROPERTY, WHICH ARE NOT REFLECTED HEREIN, IF THE SAID DESCRIBED PROPERTY HAS OR IS RECEIVING ANY SPECIAL STATUTORY VALUATIONS THAT MAY TRIGGER TAX ROLLBACK PROVISIONS. THIS CERTIFICATE APPLIES TO ADVALOREM TAXES ONLY AND DOES NOT APPLY TO ANY SPECIAL ASSESSMENT LEVIES.

CURRENT VALUES			
LAND MKT VALUE:	2,202,176	IMPROVEMENT :	27,374,490
AG LAND VALUE:	0	DEF HOMESTEAD:	0
APPRAISED VALUE:	29,576,666	LIMITED VALUE:	0
EXEMPTIONS:			
LAWSUITS:			

YEAR	TAX UNIT	LEVY	PEN	INT	DEF INT	ATTY	AMOUNT DUE
2011	TOMBALL I.S.D.	0.00	0.00	0.00	0.00	0.00	0.00
						2011 SUB TOTAL	$0.00

TOTAL CERTIFIED TAX DUE 2/2012 : **$ 0.00**

ISSUED TO : BJ SERVICES COMPANY USA
ACCOUNT NUMBER: 1242490010001

CERTIFIED BY: _____ TOMBALL I.S.D.

This is a statement from the Tax Collector of Tomball I.S.D., indicating that the taxes to be imposed on account number 1242490010001 by Tomball Independent School District for the 2012 tax year have not been calculated as of the above date.

2011 Value:	29,576,666
2011 Levy:	$339,840.62
2011 Levy Balance:	$0.00
Prior Year Levy Balance:	$0.00
Total Levy Due:	$0.00
P&I + Attorney Fee:	$0.00
Total Amount Due:	$0.00

Certified Owner:
BJ SERVICES COMPANY USA
PO BOX 4442
HOUSTON , TX 77210-4442

Certified Tax Unit(s):
40 Harris County
41 Harris County Flood Control Dist
42 Port of Houston Authority
43 Harris County Hospital District
44 Harris County Dept. of Education
45 Lone Star College System
83 City of Tomball
679 Emergency Service Dist #8 (E.M.S.)

Reference (GF) No: N/A
Issued By:
DON SUMNERS, CPA, RTA
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent_tax_certificate.rdf v1.69

OFFICE OF
STAN STAMART
COUNTY CLERK, HARRIS COUNTY, TEXAS

MAP RECORDS OF COUNTY CLERK

647119
FILM CODE _____

BJS MANUFACTURING CENTER
REPLAT

THIS IS PAGE 3 OF 3 PAGES

SCANNER KM-4850w

TAX CERTIFICATE FOR ACCOUNT : 1242490010003
AD NUMBER: 1242490010003
GF NUMBER:
CERTIFICATE NO : 1574218

COLLECTING AGENCY
Brian Ludwig
PO Box 276
Tomball TX 77377-0276

REQUESTED BY
B J SERVICES COMPANY USA

PO BOX 4442
HOUSTON TX 772104442

PAGE 1 OF 1

DATE : 2/15/2012
FEE : $10.00

PROPERTY DESCRIPTION
RES A BLK 1 (IMPS ONLY)
(LAND*1242490010001)
(POLLUTION CONTROL)
B J SERVICES TRACT
0011211 FM 2920 RD
0 ACRES

PROPERTY OWNER
B J SERVICES COMPANY USA

PO BOX 4442
HOUSTON TX 772104442

THIS IS TO CERTIFY THAT THE AD VALOREM RECORDS OF THE TOMBALL ISD TAX ASSESSOR-COLLECTOR REFLECT THE TAX, INTEREST, AND OTHER STATUTORY FEES THAT HAVE BEEN ASSESSED AND ARE NOW DUE TO THE TAXING ENTITIES AND FOR THE YEARS SET OUT BELOW FOR THE DESCRIBED PROPERTY HEREIN. THE TAX ASSESSOR-COLLECTOR MAKES NO CERTIFICATION AS TO THE AMOUNT OF TAX, PENALTY, INTEREST, OR OTHER FEES ASSESSED BY OR DUE ANY TAXING ENTITY FOR THE YEAR OR YEARS FOR WHICH THE TAX ASSESSOR-COLLECTOR DID NOT HAVE THE STATUTORY DUTY TO COLLECT OR KEEP RECORDS OF SUCH COLLECTION. ADDITIONAL TAXES MAY BECOME DUE ON THE DESCRIBED PROPERTY, WHICH ARE NOT REFLECTED HEREIN, IF THE SAID DESCRIBED PROPERTY HAS OR IS RECEIVING ANY SPECIAL STATUTORY VALUATIONS THAT MAY TRIGGER TAX ROLLBACK PROVISIONS. THIS CERTIFICATE APPLIES TO ADVALOREM TAXES ONLY AND DOES NOT APPLY TO ANY SPECIAL ASSESSMENT LEVIES.

CURRENT VALUES			
LAND MKT VALUE:	0	IMPROVEMENT :	704,060
AG LAND VALUE:	0	DEF HOMESTEAD:	0
APPRAISED VALUE:	704,060	LIMITED VALUE:	0
EXEMPTIONS:	Pollution Control		
LAWSUITS:			

YEAR	TAX UNIT	LEVY	PEN	INT	DEF INT	ATTY	AMOUNT DUE
2011	TOMBALL I.S.D.	0.00	0.00	0.00	0.00	0.00	0.00
						2011 SUB TOTAL	$0.00

TOTAL CERTIFIED TAX DUE 2/2012 : **$ 0.00**

ISSUED TO : BJ SERVICES COMPANY USA
ACCOUNT NUMBER: 1242490010003

CERTIFIED BY: _____ TOMBALL I.S.D.

This is a statement from the Tax Collector of Tomball I.S.D., indicating that the taxes to be imposed on account number 1242490010003 by Tomball Independent School District for the 2012 tax year have not been calculated as of the above date.

Date 07/13/2026
Revision / S&S

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

PLAT 3 OF 3
VOLUME 01

Job No. 00788-002	Sheet No. C0.3
Drawn By: CT	
Date: 07.15.26	

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C0.1-0.3 Plat (For Reference Only).dwg Last Plotted: Wed Jul 15, 2026 - 9:54am By: ahuerta

Copyright © 2026, Huckabee & Associates, Inc.

DETAILS

DETAIL 1
GRATE INLET
TG=174.99
FL 30"X30" CBC (N) 171.10
FL 36" CMP (E) 171.13
FL 30" RCP (W) 170.96

DETAIL 2
"C" INLET
TR=175.69
FL 36" HDP (W) 171.17
FL 36" CMP (E) 171.16

DETAIL 3
STM. SWR. MH.
TR=175.19
FL 15" RCP (N) 171.56
FL 42" HDP (E) 167.60
FL 54" RCP (S) 167.85
FL 36" CMP (W) 171.15

DETAIL 4
GRATE INLET
TG=174.60
FL 12" HDP (NW) 171.66
FL 15" HDP (S) 171.64

DETAIL 5
GRATE INLET
TG=174.50
FL 10" HDP (N) 171.61
FL 12" HDP (SE) 171.58

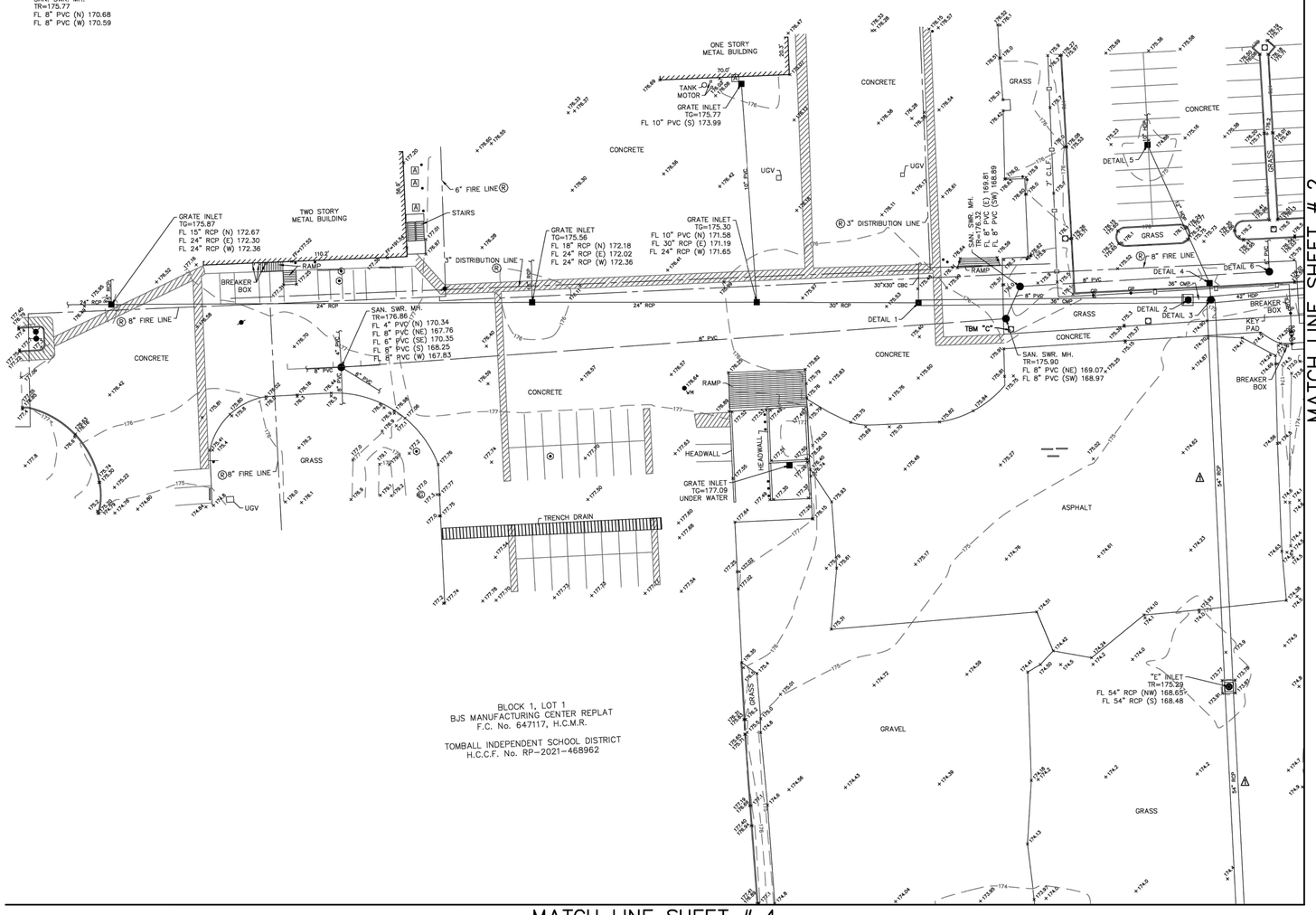
DETAIL 6
SAN. SWR. MH.
TR=175.77
FL 8" PVC (N) 170.68
FL 8" PVC (W) 170.59

LEGEND

- AIR CONDITIONING UNIT
- BENCHMARK
- BOLLARD
- "C" INLET
- "C1" INLET
- CLEANOUT
- DOWN SPOUT
- "E" INLET
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- GAS VALVE
- GATE POST
- GREASE TRAP
- GUY WIRE
- INLET
- IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MANHOLE
- PEDESTAL
- PIPELINE MARKER
- POWER POLE
- SAMPLE WELL
- SIGN
- TELEPHONE MANHOLE
- WATER METER
- WATER VALVE
- WHEEL STOP

ABBREVIATIONS

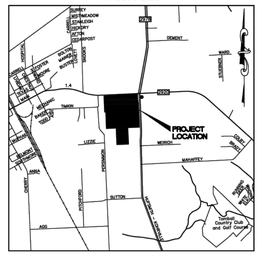
B.L.–BUILDING LINE
BOT.–BOTTOM
CBC–CONCRETE BOX CULVERT
CMC–CREPE MYRTLE CLUSTER
CMP–CORRUGATED METAL PIPE
ELEV.–ELEVATION
ESMT.–EASEMENT
FC–FILM CODE
FF–FINISH FLOOR
FL–FLOW LINE
FND.–FOUND
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
I.R.–IRON ROD
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PG.–PAGE
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT–OF–WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.M.E.–WATER METER EASEMENT



MATCH LINE SHEET # 2

MATCH LINE SHEET # 4

VICINITY MAP


PROJECT LOCATION
TOMBALL HIGH SCHOOL
TOMBALL COUNTRY CLUB AND GOLF COURSE
FM 2920
MAGNOLIA
WILLOW CREEK
HUFSMITH-KOHRVILLE
BOUDREAUX
BUTTON
ASH
LUCAS
WUNCH
MANATEE
JOHNSON
STODDARD
HOLDERRIETH
WILSON
ROSEHILL
CEMENT
WARD
KOHRVILLE
SPRING CREEK
WILLOW FORK DRAINAGE DITCH
SURREY MEADOW
EDINBURGH
DEWEY
DUNLAP
SHERWOOD
WILLOW CREEK MANOR
WILLOW CREEK ESTATES
WILLOW CREEK FARMS
WILLOW CREEK VILLAGE
WILLOW CREEK VILLAS
WILLOW CREEK VILLAGE
WILLOW CREEK VILLAGE
WILLOW CREEK VILLAGE

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ABBREVIATIONS

B.L.–BUILDING LINE
BOT.–BOTTOM
CBC–CONCRETE BOX CULVERT
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MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PC–PAD
PVC–POLYVINYL CHLORIDE PIPE
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R.O.W.–RIGHT–OF–WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.M.E.–WATER METER EASEMENT

DETAILS

DETAIL 7
GRATE INLET
TG=175.10
FL 10" HDP (N) 171.65
FL 12" HDP (S) 171.63

DETAIL 8
GRATE INLET
TG=175.36
FL 12" HDP (N) 171.39
FL 15" HDP (S) 170.73

DETAIL 9
GRATE INLET
TG=174.77
FL 15" HDP (N) 170.62
FL 48" HDP (E) 169.15
FL 42" HDP (W) 169.16

DETAIL 10
GRATE INLET
TG=174.79
FL 36" HDP (N) 169.59
FL 10" HDP (NE) 171.04
FL 48" HDP (W) 169.30

DETAIL 11
GRATE INLET
TG=175.48
FL 10" HDP (E) 172.40
FL 12" HDP (W) 172.42

DETAIL 12
GRATE INLET
TG=175.88
FL 10" HDP (NE) 172.91
FL 10" HDP (E) 172.80
FL 10" HDP (W) 172.88

DETAIL 13
GRATE INLET
TG=175.22
FL 2'X2' CBC (E) 173.62

DETAIL 14
STM. SWR. MH.
TR=177.35
FL 24" RCP (N) 168.65
FL 24" RCP (E) 169.69
FL 30" RCP (S) 167.99
FL 24" RCP (W) 169.74

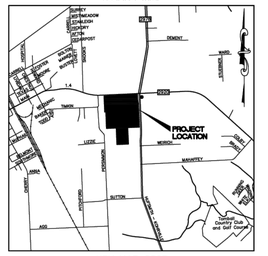
DETAIL 15
"C" INLET
TR=176.40
FL 2'X2' CBC (E) 172.88
FL 24" RCP (W) 170.00

DETAIL 16
STM. SWR. MH.
TR=176.08
FL 30" RCP (N) 167.74
FL 24" RCP (E) 169.03
FL 30" RCP (S) 167.68
FL 24" RCP (W) 169.06

DETAIL 17
"C" INLET
TR=175.44
FL 24" RCP (E) 169.33
FL 2'X2' CBC (W) 172.30



VICINITY MAP

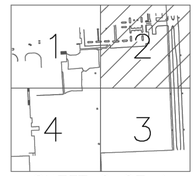


KEY MAP 289E
SCALE 1" = 3000'

SCALE: 1"= 30'

LEGEND

- AIR CONDITIONING UNIT
- BENCHMARK
- BOLLARD
- "C" INLET
- "C1" INLET
- CLEANOUT
- DOWN SPOUT
- "E" INLET
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- GAS VALVE
- GATE POST
- GREASE TRAP
- GUY WIRE
- INLET
- IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MANHOLE
- PEDESTAL
- PIPELINE MARKER
- POWER POLE
- SAMPLE WELL
- SIGN
- TELEPHONE MANHOLE
- WATER METER
- WATER VALVE
- WHEEL STOP



SHEET 2 OF 4

STATE OF TEXAS REGISTERED JOEL D. WALKER 5189 PROFESSIONAL LAND SURVEYOR

TO: TOMBALL INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

4/16/26
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

SURVEYOR'S NOTES:

1. THE CAD FILE OF THE DRAWING SHOWN HERREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999947290105.

2. ACCORDING TO F.I.R.M. MAP NO. 48201c0230l (COMMUNITY–PANEL NO. 480315023O), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

3. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

4. THE SUBJECT TRACT IS AFFECTED BY THE CITY ORDINANCES AND ZONING REGULATIONS OF THE CITY OF TOMBALL FOR ZONE "LI" (LIGHT INDUSTRIAL).

5. THE SUBJECT TRACT IS AFFECTED BY THE SHORT FORM BLANKET EASEMENT RECORDED UNDER H.C.C.F. No. RP–2017–438787.

6. –I– INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

7. (R) INDICATES RECORD UTILITIES PLOTTED FROM CITY OF TOMBALL ONLINE GIS.

REFERENCE BENCHMARK:

RM120165 – ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED.
ELEVATION = 140.69' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" – BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH–KOHRVILLE ROAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
ELEVATION = 174.74'

TBM "C" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
ELEVATION = 176.71'

TBM "D" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.
ELEVATION = 177.49'

TOMBALL INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

TOMBALL ISD INTERMEDIATE SCHOOL OUT OF THE JESSE PRUETT SURVEY ABSTRACT NO. 629 CITY OF TOMBALL HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21029 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-8288
FAX: (281) 492-6026
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY
2	4/16/26	DETAILED MANHOLES	DB
1	4/1/26	ADDRESSED COMMENTS	DB

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S866–0037B	DATE: FEBRUARY 24, 2026

Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

TOPOGRAPHIC SURVEY
2 OF 4
VOLUME 01

Job No. 00788-002
Sheet No. C0.5
Drawn By: CT
Date: 07.15.26

S&S

16 Apr 2026 9:27AM darrenb
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Includes Xref(s):

13/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/000002-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C0.4-0.7 topographic Survey (For Reference Only).dwg Last Plotted: Wed Jul 15, 2026 – 9:55am By: dtuerto

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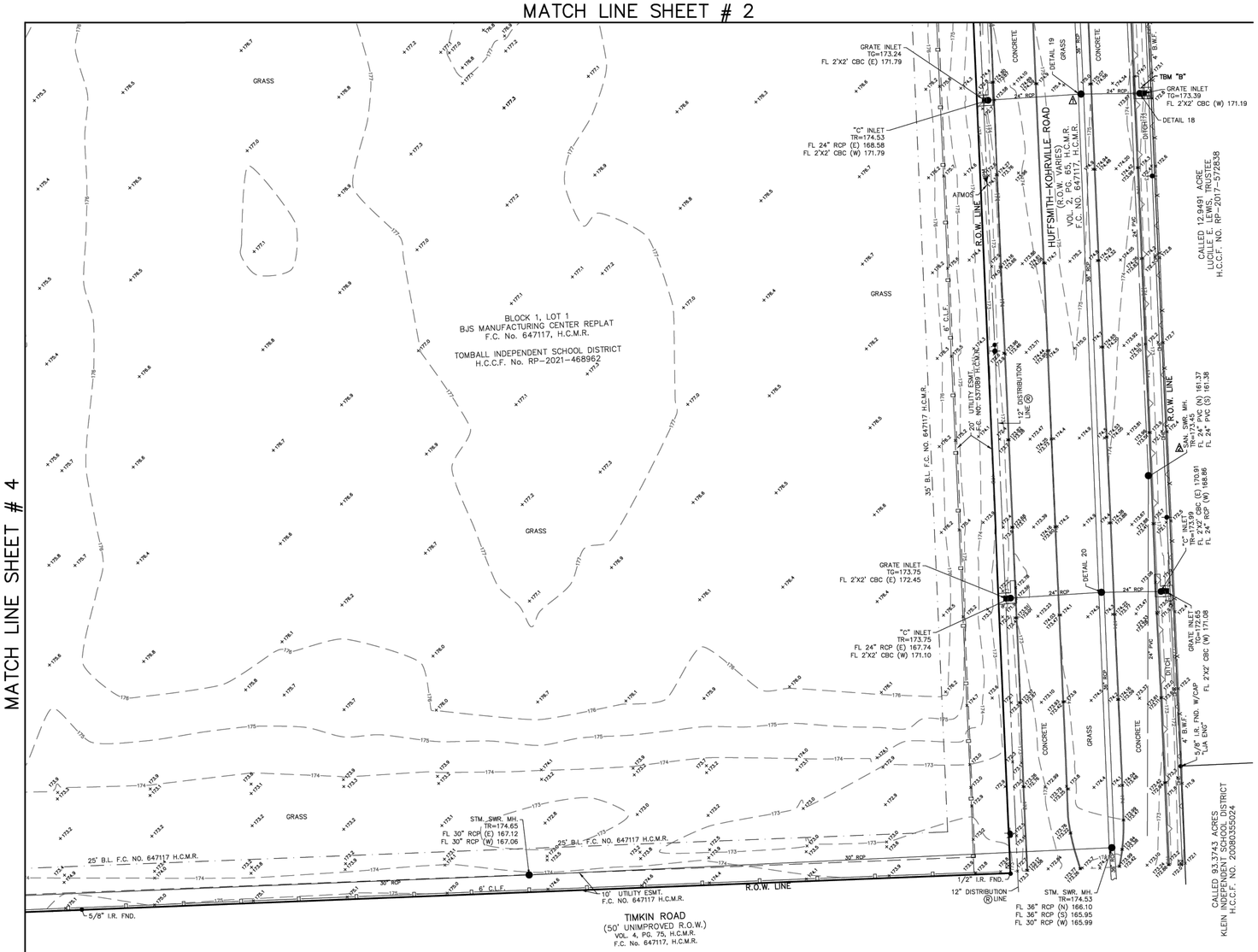
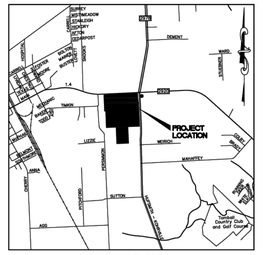
MATCH LINE SHEET # 2

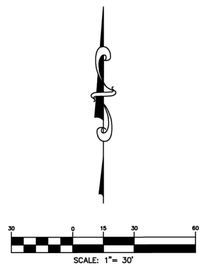


MATCH LINE SHEET # 4

VICINITY MAP



KEY MAP 289E
SCALE 1" = 3000'



SCALE: 1"= 30'

SURVEYOR'S NOTES:

1. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999947290105.

2. ACCORDING TO F.I.R.M. MAP NO. 48201c0230l (COMMUNITY–PANEL NO. 480315023O), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

3. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

4. THE SUBJECT TRACT IS AFFECTED BY THE CITY ORDINANCES AND ZONING REGULATIONS OF THE CITY OF TOMBALL FOR ZONE "LI" (LIGHT INDUSTRIAL).

5. THE SUBJECT TRACT IS AFFECTED BY THE SHORT FORM BLANKET EASEMENT RECORDED UNDER H.C.C.F. No. RP–2017–438787.

6. –I– INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

7. Ⓡ INDICATES RECORD UTILITIES PLOTTED FROM CITY OF TOMBALL ONLINE GIS.

REFERENCE BENCHMARK:

RM120165 – ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED.
ELEVATION = 140.69' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" – BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH–KOHRVILLE ROAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
ELEVATION = 174.74'

TBM "C" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
ELEVATION = 176.71'

TBM "D" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.
ELEVATION = 177.49'

ABBREVIATIONS

B.L.–BUILDING LINE	MH–MANHOLE
BOT.–BOTTOM	OHE–OVERHEAD ELECTRIC
CBC–CONCRETE BOX CULVERT	PG.–PAGE
CMC–CREPE MYRTLE CLUSTER	PVC–POLYVINYL CHLORIDE PIPE
CMP–CORRUGATED METAL PIPE	RCP–REINFORCED CONCRETE PIPE
ELEV.–ELEVATION	R.O.W.–RIGHT–OF–WAY
ESMT.–EASEMENT	SAN.–SANITARY
FC–FILM CODE	STM.–STORM
FF–FINISH FLOOR	SWR.–SEWER
FL–FLOW LINE	TG–TOP OF GRATE
FND.–FOUND	TR–TOP OF RIM
H.C.C.F.–HARRIS COUNTY CLERK'S FILE	TYP.–TYPICAL
H.C.M.R.–HARRIS COUNTY MAP RECORDS	UGV–UNDERGROUND VAULT
HDP–HIGH DENSITY POLYETHYLENE PIPE	VOL.–VOLUME
I.R.–IRON ROD	W.M.E.–WATER METER EASEMENT

LEGEND

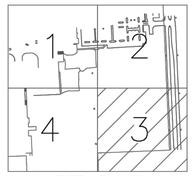
AIR CONDITIONING UNIT	INLET
BENCHMARK	IRRIGATION CONTROL VALVE
BOLLARD	LIGHT STANDARD
"C" INLET	MANHOLE
"C1" INLET	PEDESTAL
CLEANOUT	PIPELINE MARKER
DOWN SPOUT	POWER POLE
"E" INLET	SAMPLE WELL
ELECTRIC JUNCTION BOX	SIGN
FIRE HYDRANT	TELEPHONE MANHOLE
GAS VALVE	WATER METER
GATE POST	WATER VALVE
GREASE TRAP	WHEEL STOP
GUY WIRE	

DETAILS

DETAIL 18
"C" INLET
TR=174.75
FL 2'X2' CBC (E) 171.10
FL 24" RCP (W) 168.39

DETAIL 19
STM. SWR. MH.
TR=175.31
FL 36" RCP (N) 167.23
FL 24" RCP (E) 168.26
FL 36" RCP (S) 166.84
FL 24" RCP (W) 168.28

DETAIL 20
STM. SWR. MH.
TR=174.57
FL 36" RCP (N) 166.57
FL 24" RCP (E) 167.37
FL 36" RCP (S) 166.70
FL 24" RCP (W) 167.49



SHEET 3 OF 4

STATE OF TEXAS
REGISTERED
JOEL D. WALKER
5189
PROFESSIONAL
LAND SURVEYOR

TO: TOMBALL INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

4/16/26
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

Revision / S&S
Date 07/13/2026

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

TOMBALL INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

TOMBALL ISD INTERMEDIATE SCHOOL OUT OF THE JESSE PRUETT SURVEY ABSTRACT NO. 629 CITY OF TOMBALL HARRIS COUNTY, TEXAS

WEST BELT
SURVEYING, INC.
21029 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-9288
FAX: (281) 492-0926
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY
1	4/16/26	DETAILED MANHOLES	DB
1	4/1/26	ADDRESSED COMMENTS	DB

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S866-0037B	DATE: FEBRUARY 24, 2026

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

TOPOGRAPHIC SURVEY
3 OF 4
VOLUME 01

Job No. 00788-002	Sheet No. C0.6
Drawn By: CT	
Date: 07.15.26	

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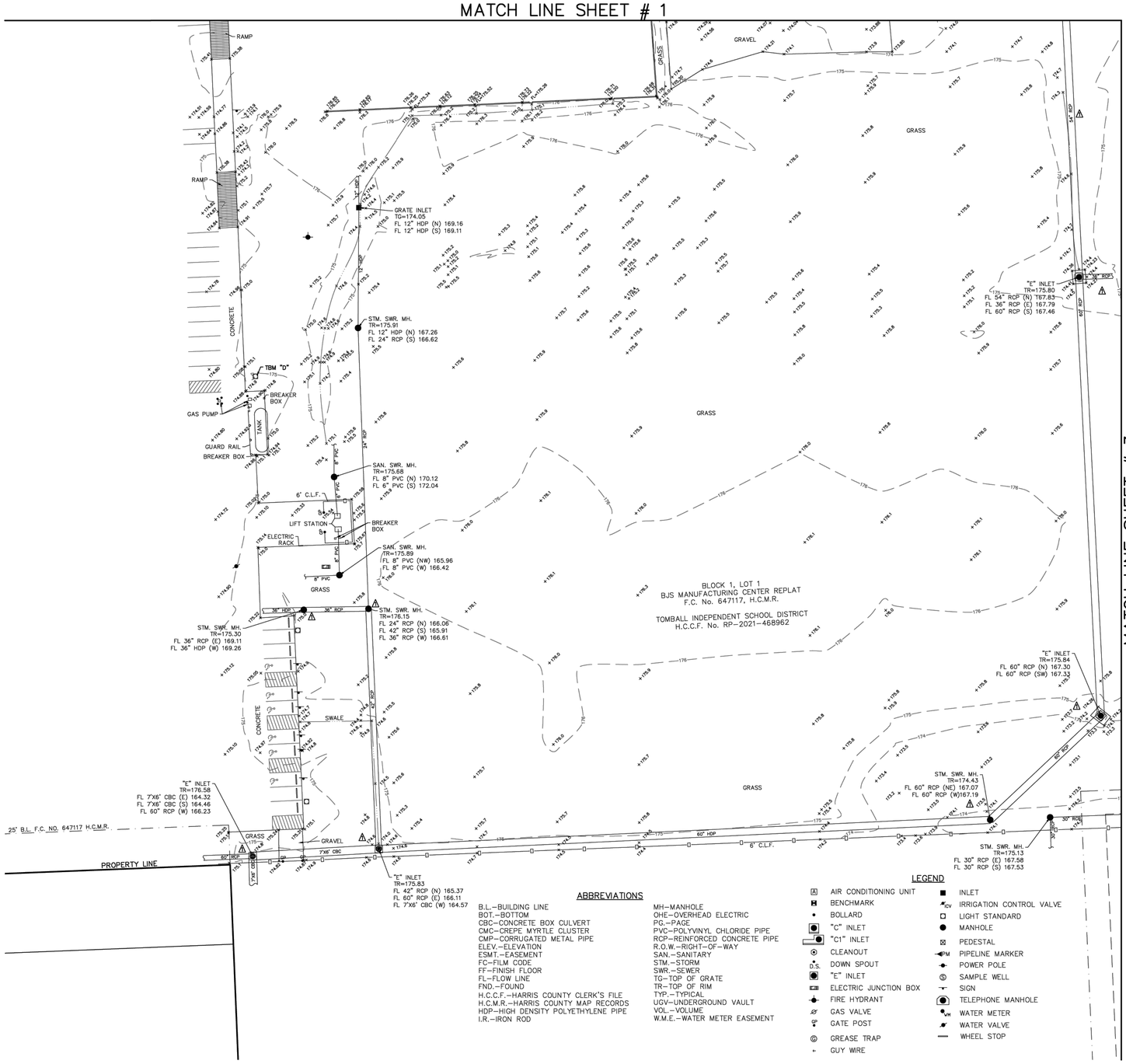

ABBREVIATIONS

B.L.–BUILDING LINE
BOT.–BOTTOM
CBC–CONCRETE BOX CULVERT
CMC–CREPE MYRTLE CLUSTER
CMP–CORRUGATED METAL PIPE
ELEV.–ELEVATION
ESMT.–EASEMENT
FC–FILM CODE
FF–FINISH FLOOR
FL–FLOW LINE
FND.–FOUND
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
I.R.–IRON ROD
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PG.–PAGE
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT–OF–WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
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TYP.–TYPICAL
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LEGEND

AIR CONDITIONING UNIT
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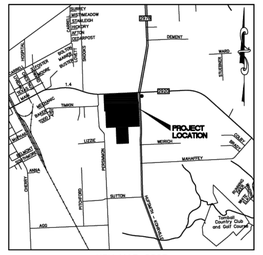
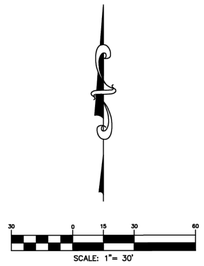
PEDESTAL
PIPELINE MARKER
POWER POLE
SAMPLE WELL
SIGN
TELEPHONE MANHOLE
WATER METER
WATER VALVE
WHEEL STOP

VICINITY MAP



KEY MAP 289E
SCALE 1" = 3000'



SCALE: 1"= 30'

SURVEYOR'S NOTES:

1. THE CAD FILE OF THE DRAWING SHOWN HERREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999947290105.

2. ACCORDING TO F.I.R.M. MAP NO. 48201c0230l (COMMUNITY–PANEL NO. 480315023O), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

3. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

4. THE SUBJECT TRACT IS AFFECTED BY THE CITY ORDINANCES AND ZONING REGULATIONS OF THE CITY OF TOMBALL FOR ZONE "LI" (LIGHT INDUSTRIAL).

5. THE SUBJECT TRACT IS AFFECTED BY THE SHORT FORM BLANKET EASEMENT RECORDED UNDER H.C.C.F. No. RP–2017–438787.

6. —I— INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

7. Ⓡ INDICATES RECORD UTILITIES PLOTTED FROM CITY OF TOMBALL ONLINE GIS.

REFERENCE BENCHMARK:

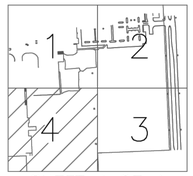
RM120165 – ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED.
ELEVATION = 140.69' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" – BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH–KOHRVILLE ROAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
ELEVATION = 174.74'

TBM "C" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
ELEVATION = 176.71'

TBM "D" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.
ELEVATION = 177.49'



SHEET 4 OF 4

STATE OF TEXAS
REGISTERED
JOEL D. WALKER
5189
PROFESSIONAL
LAND SURVEYOR

TO: TOMBALL INDEPENDENT SCHOOL DISTRICT

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4/16/26
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

TOMBALL INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

TOMBALL ISD
INTERMEDIATE SCHOOL
OUT OF THE
JESSE PRUETT SURVEY
ABSTRACT NO. 629
CITY OF TOMBALL
HARRIS COUNTY, TEXAS

WEST BELT
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PHONE: (281) 599-9288
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DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S866–0037B	DATE: FEBRUARY 24, 2026

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TOPOGRAPHIC SURVEY
4 OF 4
VOLUME 01

Job No. 00788-002	Sheet No. C0.7
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Date: 07.15.26	

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GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT THE CITY OF TOMBALL A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK.
2. CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS AND OTHER PERMANENT OBJECTS.
3. TREES WITHIN THE STREET RIGHT-OF-WAY SHALL NOT BE REMOVED OR DISTURBED, EXCEPT WHERE CALLED OUT TO BE REMOVED. WHERE TREE ROOTS MUST BE CUT, FOLLOW THE REPAIR METHODS DESCRIBED IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE PERFORMED AS NECESSARY.
5. ANY AREA OF GRASS, WHICH IS DISTURBED OR DUG UP DURING CONSTRUCTION, SHALL BE REPLACED WITH SEED OR SOD.
6. ALL NON ACTIVE EXPOSED AREAS OF EXCAVATION SHALL BE COVERED WITH STEEL SHEETING WHEN IN PAVED AREAS. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AND TRAFFIC BARRICADES AROUND ALL OTHER EXPOSED AREAS OF EXCAVATION.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS AND LANDSCAPING DAMAGED OR REMOVED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION BY THE CONTRACTOR AT THEIR EXPENSE.
8. WHEN ANY STREET OR ANY SECTION OF A STREET IS CLOSED, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, WARNING AND DIRECTING SIGNS, RED FLAGS AND LIGHTS AT THE END OF EACH STREET AND AT ALL INTERSECTIONS ALONG THE STREET WITHIN THE LIMIT OF THE WORK AREA. ALL EXPENSE INCURRED FOR THE ABOVE REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR. ALL WARNING SIGNS AND BARRICADES SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR TO NOTIFY PROPER AUTHORITIES A MINIMUM OF 48 HOURS PRIOR TO ANY STREET OR PARTIAL STREET CLOSING
9. CONTRACTOR SHALL PROVIDE THE CITY OF TOMBALL ONE SET OF (RECORD) DRAWINGS AS PER SPECIFICATIONS.
10. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENDING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM FAILURE TO LOCATE AND PRESERVE UNDERGROUND UTILITIES.
11. IN ACCORDANCE WITH TEXAS STATE LAW THE _____ CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING TEXAS 811 AT LEAST 48 HOURS PRIOR TO COMMENDING CLEARING OR EXCAVATION.
13. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED.
14. EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION.
15. CONDITION OF THE FACILITIES, UPON COMPLETION OF JOB, SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK. THE CONTRACTOR SHALL RESTORE ALL GRADES AND LANDSCAPING TO PRECONSTRUCTION CONDITIONS AND RE-ESTABLISH TURF AREAS DAMAGED BY THE CONSTRUCTION ACTIVITIES UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY CONSTRUCTION BY MEANS OF ANCHORED STEEL PLATES, BY BACKFILLING IMMEDIATELY AFTER CONSTRUCTION, AND/OR BY PLACING SHELL OR LIMESTONE SURFACES FOR TEMPORARY DRIVEWAY PURPOSES. CONTRACTOR'S ATTENTION IS DIRECTED TO HS-20 LOAD RATED ACCESS REQUIREMENTS FOR ALL SUCH AREAS.
17. ALL EXCESS DIRT FROM EXCAVATION SHALL BE DISPOSED OF OFFSITE BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS INCLUDING HARRIS COUNTY, TXDOT AND CITY OF TOMBALL.
19. CONTRACTOR TO REMOVE ALL TRASH, EXCESS MATERIAL, DEBRIS, ETC. FROM THE SITE UPON COMPLETION OF THE PROJECT PRIOR TO INSPECTION AND APPROVAL BY THE APPROVING AGENCIES.
20. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATION, TITLE 29, PART 1910.190(L) AND PART 1926.440(A)(15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL 713-207-7777 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.
21. CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL CONTROL. REFERENCE POINTS AND CONSTRUCTION STAKING IS INCIDENTAL TO THE PROJECT.
22. SIDEWALKS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 40, SECTION 40-65(1), THE COMPREHENSIVE PLAN, AND THE LIVABLE CENTERS STUDY.
23. EACH CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE PROPOSED WORK.
24. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF ALL POWER/TELEPHONE POLES AND CORRESPONDING GUY WIRES WITHIN FIFTEEN (15) FEET OF PROPOSED WORK. CONTRACTOR SHALL REPAIR DAMAGED POLES AND GUY WIRES AS REQUIRED BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.
25. CITY OF TOMBALL NORMAL WORKING HOURS ARE MONDAY THROUGH FRIDAY FROM 7 AM TO 5 PM, EXCEPT CITY OBSERVED HOLIDAYS. THE CONTRACTOR SHALL NOT BE PERMITTED TO CLOSE LANES OR DO ANY WORK THAT REQUIRES THE SERVICE OR INSPECTION OF THE CITY OUTSIDE OF THE NORMAL WORKING HOURS UNLESS LISTED IN THE PERMIT. THE CONTRACTOR WITH THE PERMITSSION OF THE CITY OF TOMBALL MAY BE PERMITTED TO WORK OUTSIDE OF THE NORMAL WORK HOURS FOR CLEAN-UP ACTIVITIES OR OTHER SUCH ITEMS THAT DO NOT ADVERSELY IMPACT TRAFFIC, RESIDENTS, BUSINESSES OR CITY SERVICES.

WASTEWATER NOTES

1. ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE DETERMINED FROM APPROVED, RECORDED SUBDIVISION PLAT OR ROAD RIGHT-OF-WAY PLAT.
2. SEWER MAINS, MANHOLES AND LIFT STATIONS ARE TO BE DESIGNED, TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH CITY OF TOMBALL STANDARDS AND TCEQ TITLE 30 CHAPTER 217 OF THE TEXAS ADMINISTRATIVE CODE. TAC 217.2 REQUIRES LOW-PRESSURE AIR TESTS TO CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C828, C924, F-1417 OR OTHER APPROPRIATE PROCEDURES. FOR SAFETY REASONS, AIR TESTING OF SECTIONS OF PIPE SHALL BE LIMITED TO LINES LESS THAN 36-INCH AVERAGE INSIDE DIAMETER. LINES 36-INCH IN DIAMETER OR LARGER MAY BE AIR TESTED AT EACH JOINT. DEFLECTION TESTING OF ALL FLEXIBLE AND SEMI-RIGID PIPE SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. RIGID PIPE SHALL NOT EXCEED A DEFLECTION OF 1% FLEXIBLE PIPE SHALL NOT EXCEED A DEFLECTION OF 5%. THE DEFLECTION TEST IS TO BE RUN USING A RIGID MANDREL AND SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. ALL TESTS TO BE WITNESSED & APPROVED BY CITY OF TOMBALL.
3. MAINTAIN 12 INCH MINIMUM CLEARANCE AT CROSSINGS BETWEEN ALL OTHER UTILITY LINES, STORM SEWERS, AND CULVERTS UNLESS OTHERWISE NOTED.
4. SEWER TRENCHES UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT TO BE BACKFILLED WITH CEMENT SAND (1.5 SACKS PER TON) BACKFILL AS SPECIFIED, TO WITHIN ONE (1) FOOT OF SUBGRADE, BEDDING WILL BE CLASS AAA WHERE CEMENT-SAND BACKFILL IS USED FOR SANITARY SEWERS. INCLUDE COST OF BACKFILL IN UNIT PRICE BID PER LINEAR FOOT OF PIPE.
5. UNLESS OTHERWISE NOTED ALL PROPOSED GRAVITY WASTEWATER MAINS 8" TO 15" SHALL BE PVC PIPE (ASTM D3034 OR D2241 SDR 26). ALL PROPOSED GRAVITY WASTEWATER MAINS 18" TO 36" SHALL BE PVC PIPE (ASTM F679 PS 115).
6. FOR PVC PIPE, USE MANHOLE WATERSTOP GASKET AND CLAMP ASSEMBLY AT MANHOLE CONNECTIONS (NO SEPARATE PAY).
7. SANITARY SEWER MANHOLES SHALL BE PRECAST OR POURED IN PLACE MONOLITHIC CONCRETE, AND BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER YARD) AS SPECIFIED (NO SEPARATE PAY). MANHOLES WILL BE VACUUM TESTED AS SPECIFIED BY THE CITY OF TOMBALL.
8. ALL SERVICE LEADS SHALL BE FOUR (4) INCHES OR SIX (6) INCHES AT 1.0% MINIMUM SLOPE. ALL FAR SIDE LEADS (OPEN-CUT OR BORED AND JACKED) SHALL CONFORM TO ASTM D1784 (SCHEDULE 80), ASTM D2241 (SDR 26) OR ASTM D3034 (SDR 26).
9. STUBS OR LEADS SERVING TWO LOTS SHALL HAVE A SERVICE WYE WITH TEMPORARY PLUGS. THE WYE SHALL BE LOCATED WITHIN THE STREET RIGHT-OF-WAY NEAR AN ADJOINING UTILITY EASEMENT.
10. MANHOLE RIMS ARE TO BE SET AT THE ELEVATIONS SHOWN ON THE PLANS INITIALLY, AFTER PAVING AND GRADING IS COMPLETED, RIMS ARE TO BE ADJUSTED TO THREE (3) TO SIX (6) INCHES ABOVE FINAL GRADE AND GRADE SOIL SO AS TO PROVIDE DRAINAGE AWAY FROM MANHOLE.
11. ALL PVC PIPE SHALL HAVE RUBBER GASKET EQUIPPED BELL AND SPIGOT JOINTS. SOLVENT WELDED JOINTS SHALL NOT BE CONSIDERED AN ACCEPTABLE MATERIAL.
12. ALL GRADE CHANGES AT MANHOLES IN EXCESS OF 2 FEET SHALL BE ACCOMPLISHED WITH DROP MANHOLE CONNECTIONS.
13. CONTRACTOR TO FURNISH CITY WITH RECORD DRAWINGS UPON COMPLETION OF PROJECT (CERTIFIED BY ENGINEER).
14. ALL MANHOLES SHALL BE LINED WITH RAVEN LINING 405 EPOXY LINER OR APPROVED EQUAL WITH 100 MILS MINIMUM THICKNESS.
15. THE CONTRACTORS SHALL BE ENSURE THAT NO OVERFLOWS OR SPILLAGE OF SEWAGE OCCURS. THE PERSON IDENTIFIED WITH THIS RESPONSIBILITY SHALL BE ON-SITE WHEN ACTIVITIES THAT COULD RESULT IN A SPILL OR OVERFLOW ARE BEING PERFORMED. SHOULD AN OVERFLOW OR SPILL OCCUR, THE CONTRACTOR SHALL IMMEDIATELY:
    - 15.1. IDENTIFY THE SOURCE OF THE SPILL, ATTEMPT TO STOP AND ELIMINATE ANY ADDITIONAL SPILLAGE OR OVERFLOW,
    - 15.2. NOTIFY THE CITY OF TOMBALL CITY PUBLIC WORKS DEPARTMENT (281) 290-1400,
    - 15.3. CONTAIN THE SPILL IN PLACE AND PREVENT CONTAMINATION OF STREAMS AND WATERWAYS,
    - 15.4. CLEAN UP THE SPILL AND DISPOSE OF CONTAMINATED MATERIALS,
    - 15.5. DISINFECT THE AREA WITH A MIXTURE OF HTH CHLORINE AND WATER,
    - 15.6. IDENTIFY AND TRAIN CONTRACTOR'S PERSONNEL RESPONSIBLE FOR SPILL PREVENTION AND CONTROL,
    - 15.7. ALL WORK PERFORMED IN RELATION TO A SPILL SHALL BE IN CONFORMANCE WITH TCEQ REGULATIONS AND AT NO ADDITIONAL COST TO THE CITY OF TOMBALL
16. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MARKING ALL STACKS AND SERVICE LEADS AFTER THE PAVING IS COMPLETE. A ¼ -INCH DEEP NOTCH SHALL BE CUT IN THE CURB AND PAINTED WITH A RED LINE ADJACENT TO THE STACK OR LEAD. IF STAKES ARE LEFT IN THE GROUND AT THE STACKS AND LEADS AFTER CONSTRUCTION OF UTILITIES, THEN AN EFFORT WILL BE MADE TO PRESERVE THEM DURING PAVING CONSTRUCTION. HOWEVER, IF THESE STAKES ARE KNOCKED OUT FOR ANY REASON, THE UTILITY CONTRACTOR REMAINS RESPONSIBLE FOR LOCATING AND MARKING THE FACILITIES AS DESCRIBED ABOVE.

WATER NOTES

1. ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE DETERMINED FROM APPROVED AND/OR RECORDED SUBDIVISION OR ROAD RIGHT-OF-WAY PLAT.
2. ALL WATER LINE CONSTRUCTION TO BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
3. ALL WATER LINES TO BE LOCATED INSIDE PUBLIC ROAD RIGHT-OF-WAYS OR PUBLIC EASEMENTS. CITY REPRESENTATIVE TO INSPECT & APPROVE PRIOR TO BACKFILL.
4. ALL WATER MAINS LESS THAN OR EQUAL TO 12" IN DIAMETER SHALL BE PVC C-900 (DR-18). ALL PROPOSED WATER MAINS GREATER THAN OR EQUAL TO 14" IN DIAMETER SHALL BE PVC C-905 (DR-18).
5. WATER MAINS TO HAVE A MINIMUM COVER OF FOUR (4) FEET. VARY FLOW LINE UNIFORMLY FROM DEPTH AND LOCATION SHOWN IN PLANS.
6. WATER LINE FITTINGS TO BE DUCTILE IRON WITH POLYETHYLENE WRAP AS SPECIFIED UNLESS OTHERWISE NOTED.
7. MAINTAIN 12-INCH MINIMUM CLEARANCE AT CROSSINGS BETWEEN ALL WATER LINES AND ALL UTILITIES INCLUDING STORM SEWERS AND CULVERTS UNLESS OTHERWISE NOTED.
8. WATER LINES SHALL BE SAND-BEDDED AS SHOWN IN THE CITY OF TOMBALL DETAILS. (COT-WA-02) ALL WATER LINES TO BE INSPECTED BY CITY OF TOMBALL PRIOR TO BACKFILL.
9. WATERLINE TRENCHES UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED PER THE CITY OF TOMBALL DETAILS (COT-WA-02).
10. ALL 2" THRU 12" GATE VALVES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH AWWA C509 DOUBLE SEATED RESILIENT SEAT GATE VALVES AND SHALL OPEN IN A COUNTER CLOCKWISE DIRECTION ONLY. VALVES ON ALL TAPPING SLEEVES ARE TO BE OF THE SAME TYPE.
11. VALVES TO BE LOCATED OPPOSITE PROPERTY CORNER WHERE APPROPRIATE.
12. ALL VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER PAVING/GRADING IS COMPLETE.
13. ALL FIRE HYDRANTS SHALL BE MUELLER CENTURION OR AMERICAN DARLING. EQUIP EACH FIRE HYDRANT WITH TWO (2) TWO AND ONE-HALF (2 ½) INCH NOMINAL INSIDE DIAMETER HOSE NOZZLES AND ONE (1) FIVE AND ONE-QUARTER (5 ¼) INCH NOMINAL INSIDE DIAMETER PUMPER NOZZLE WITH NATIONAL STANDARD THREADS ON EACH NOZZLE. SUPPLY STORZ CONNECTOR & PRESSURE CAP FOR PUMPER NOZZLE.
14. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURES SPECIFIED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF TOMBALL.
15. ALL WATER LINE TESTING SHALL BE WITNESSED AND APPROVED BY THE CITY OF TOMBALL.
16. TWELVE (12) GAUGE LOCATOR WIRE TO BE INSTALLED ON ALL WATER LINES, GAS LINES AND FORCE MAINS. TO BE ACCESSIBLE AT VALVE STACKS.
17. ALL TS&V SHALL BE FULL BODY – CAST IRON OR APPROVED STAINLESS STEEL OR DUCTILE IRON.
18. ONE (1) WATER SAMPLE PER 1000 FEET SHALL BE SUBMITTED TO A TEXAS DEPARTMENT OF HEALTH APPROVED LABORATORY AND SHALL BE FREE OF ANY CONTAMINATES, PRIOR TO BEING PUT IN SERVICE.
19. DISINFECTION OF NEW AND REPAIRED WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY, WHICH MIGHT LEAD TO CONTAMINATION OF WATER, SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE. (NON PAY ITEM)
20. ALL WATER AND WASTEWATER CROSSINGS SHALL CONFORM TO TCEQ CHAPTER 217 AND 290 SEPARATION REQUIREMENTS.
21. ALL VALVE BOXES SHALL BE ERECTED PLUMBED & BE FREE OF DEBRIS.
22. PROVIDE BACKFLOW PREVENTOR BASED ON APPROPRIATE APPLICATIONS (I.E. IRRIGATION, DOMESTIC, FIRE)
23. ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN MINIMUM 8 MIL POLYETHYLENE WRAP.

PAVEMENT NOTES

1. ALL INTERSECTIONS WHERE A STOP SIGN IS LOCATED SHALL HAVE A STOP BAR, STOP BARS SHALL BE LOCATED WHERE PEDESTRIAN CROSSWALKS ARE PROVIDED, 1'-4" BEHIND CROSSWALKS.
2. STOP BARS SHALL BE 24" WIDE, AND CONSIST OF SOLID WHITE LINES EXTENDING ACROSS APPROACH LANES TO INDICATE THE POINT AT WHICH THE STOP IS INTENDED OR REQUIRED TO BE MADE.
3. ON APPROACH – BEGINNING WITH STOP BAR, INSTALL A 4" WIDE SOLID WHITE LINE FOR 50 FT BACK FROM STOP BAR SKIP 25' AND BEGIN NORMAL LANE LINES.
4. ON EXIT – BEGINNING WITH CROSSWALK, OR 12' FROM CURB LINE OF INTERSECTING STREET, INSTALL A 4" WIDE SOLID WHITE LINE FOR 50 FT., AND BEGIN NORMAL LANE LINE.
5. CROSSWALKS SHALL BE A MINIMUM INSIDE WIDTH OF 5' (FT.). AT LOCATIONS WHERE ADDITIONAL VISIBILITY IS REQUIRED, WHERE TRAFFIC CONTROL DEVICES ARE NOT PRESENT, AND IN SCHOOL ZONES CONTINENTAL CROSSWALKS SHALL BE USED.
6. ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH COT APPROVED PRODUCT LIST.
7. PAVEMENT MARKINGS MUST BE SHOWN ON THE APPROVED CONSTRUCTION PLANS. ALL PAVEMENT MARKINGS MUST BE RETRO-REFLECTIVE MATERIAL APPLIED TO THE ROAD SURFACE IN A MOLTEN STATE BY SCREED/EXTRUSION, SUSPENDED EXTRUSION, OR SPRAY MEANS, WITH A SURFACE APPLICATION OF GLASS BEADS.
8. THE COLOR OF RAISED PAVEMENT MARKERS UNDER BOTH DAYLIGHT AND NIGHTTIME CONDITIONS SHALL CONFORM TO THE COLOR OF THE MARKING FOR WHICH THEY SERVE AS A POSITIONING GUIDE OR FOR WHICH THEY SUPPLEMENT OR SUBSTITUTE.
9. ALL TRAFFIC BUTTONS AND MARKERS SHALL BE INSTALLED ADJACENT TO STRIPES (APPROX. 2").
10. ALL BUTTONS SHALL BE INSTALLED WITH AN APPROVED EXPOXY.
11. A BLUE REFLECTORIZED BUTTON SET 6" OFF CENTERLINE OF ROADWAY SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS.
12. PAVEMENT SURFACE AREAS PRIOR TO PLACEMENT OF PAVEMENT MARKINGS, AND/OR RAISED PAVEMENT MARKERS SHALL BE CLEANED IN ACCORDANCE WITH THE T.A.S. DRAWINGS. CONCRETE SURFACES SHALL BE CLEANED BY ABRASIVE BLASTING MEDIUM. ASPHALT PAVEMENT SURFACES SHALL BE CLEANED BY BRUSHING, WASHING, COMPRESSED AIR, AND/OR HIGH-PRESSURE WATER. AREAS MUST BE FREE OF CURING MEMBRANE, DIRT, GREASE, LOOSE AND/OR FLAKING EXISTING MARKERS AND OTHER FORMS OF DEBRIS.
13. ALL ESPLANADE NOSES, AND CURBS IN LEFT TURN BAY'S SHALL BE BRICK STAMPED ON PAVERS AND SHALL COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC DEVICES, A.D.A., T.A.S., AND COT STANDARDS AND ALL REVISIONS THEREOF.
14. ALL ROADWAYS WITHOUT CURB SHALL HAVE A SOLID 4" WHITE REFLECTORIZED STRIPE 12" INSIDE THE EDGE OF PAVEMENT.
15. WITHIN A TANGENT SECTION THE TYPE I-C PAVEMENT MARKERS CAN BE PLACED AT 40' C-C ON ROADWAYS WITHOUT CURB AND GUTTERS.
16. ALL STREET CROSSINGS SHALL COMPLY WITH T.A.S. AND A.D.A., SEE HANDICAP CROSS DETAIL.
17. ALL PAVEMENT MARKINGS, AND/OR RAISED PAVEMENT MARKERS SHALL COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC DEVICES, A.D.A., T.A.S., AND COT STANDARDS AND ALL REVISIONS THEREOF.
18. ALL MARKINGS SHALL HAVE A UNIFORM CROSS-SECTION, AND THE DENSITY AND QUALITY OF THE MARKING'S SHALL BE UNIFORM THROUGHOUT THEIR THICKNESS.
19. PAVEMENT MARKING'S PLACED THAT ARE NOT IN ALIGNMENT OR SEQUENCE, AS SHOWN ON THE PLANS OR STATED IN THE PROJECT SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
20. FOR SKEW INTERSECTIONS AND STREET WIDTHS NOT SHOWN, COORDINATE WITH THE COT DEPARTMENT OF ENGINEERING & PLANNING.

STORM SEWER NOTES

1. STORM SEWER CONSTRUCTION SHALL CONFORM TO THE CITY OF TOMBALL SPECIFICATIONS FOR STORM SEWER CONSTRUCTION.
2. ALL STORM SEWER TO BE ASTM C-76, CLASS III REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM C443. CLASS IV RCP REQUIRED UNDER PAVEMENT WITH LESS THEN 2' OF COVER.
3. ALL STORM SEWER INLETS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON). ALL BEDDING SHALL BE CLASS "AA". ALL STORM SEWERS TO BE INSPECTED BY CITY PRIOR TO BACKFILL.
4. ALL STORM SEWER TRENCHES UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN ONE FOOT (1') FROM BACK OF CURB TO BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON) TO A POINT OF ONE FOOT (1') BELOW PAVEMENT SUBGRADE. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL. COST OF BACKFILL AND BEDDING TO BE INCLUDED IN UNIT PRICE PER LINEAR FOOT OF PIPE.
5. HIGH DENSITY POLYETHYLENE PIPE MAY BE SUBSTITUTED ON PRIVATE PROPERTY FOR REINFORCED CONCRETE PIPE SUBJECT TO THE FOLLOWING:
    - 5.1. FOR PIPES 36" AND SMALLER – CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 7" MIN. BEDDING DEPTH. FOR SEWERS 42"-60" CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 10" MIN. BEDDING DEPTH. THE SIDES SHALL BE 12" MIN. FROM EDGE OF TRENCH TO SPRINGLINE.
    - 5.2. CEMENT STABILIZED SAND SHALL BE THOROUGHLY RODDED, PLACED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY 1'-0" ABOVE THE TOP OF PIPE, AFTER PIPE IS LAID.
    - 5.3. PIPE AND FITTINGS: THE TYPES OF PIPE WILL BE INDICATED ON THE DRAWINGS BY THE FOLLOWING DESCRIPTION CONFORMING TO AASHTO M 252, AASHTO M 294, AND/OR AASHTO MP6-95, LATEST EDITION. PIPE DESCRIPTION: CPP (CORRUGATED POLYETHYLENE PIPE).
    - 5.4. TYPE S (THIS PIPE SHALL HAVE A FULL CIRCULAR CROSS-SECTION, WITH AN OUTER CORRUGATED PIPE WALL AND A SMOOTH INNER LINE).

SIDEWALK NOTES

1. EXISTING CURB AND GUTTER TO BE SAW CUT, REMOVED AND REPLACED. DOWEL STEEL FOR MINIMUM REINFORCING OVERLAP OF 10 INCHES (10") DOWELS SHALL BE EIGHTEEN INCHES (18") LONG AND EPOXIED A MINIMUM OF (8") EIGHT INCHES INTO EXISTING PAVEMENT.
2. IF SIDEWALKS ARE NEITHER EXISTING NOR PROPOSED WHERE CURB RAMP ACCESS IS REQUIRED, CONCRETE SIDEWALKS SURFACE 4 1/2" THICK SHALL BE INSTALLED TO PROVIDE ACCESS TO THE PEDESTRIAN PUSH BUTTONS.
3. DETECTABLE WARNINGS REQUIRED BY T.A.S. SECTIONS 4.1 AND 4.7 SHALL COMPLY WITH T.A.S. SECTION 4.29
4. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACE SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE.
5. DETECTABLE WARNING SURFACE SHALL COVER THE ENTIRE WIDTH AND DEPTH OF RAMP.
6. DETECTABLE WARNINGS SHALL BE INSTALLED WITH PAVERS IN ACCORDANCE WITH MANUFACTURE'S REQUIREMENTS.
7. CONCRETE PAVER UNITS SHALL MEET ALL REQUIREMENTS OF ASTM C-935, C-33, AND SHALL BE PLACE IN A TWO BY TWO UNIT BASKET WEAVE PATTERN, UNLESS SHOWN OTHERWISE IN THE PLANS.
8. CONCRETE PAVER UNITS SHALL HAVE A TRUNCATED DOME TOP SURFACE FOR DETECTABLE WARNING TO PEDESTRIANS. DOMES SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
9. CONCRETE PAVER UNIT COLOR FOR THE RAMP SHALL BE A CONTRASTING COLOR THAT PROVIDES A LIGHT REFLECTIVE THAT SIGNIFICANTLY CONTRASTS WITH THE ADJACENT SURFACES. ADJACENT SURFACES INCLUDE SIDE FLARES. COLORS OTHER THAN RED-BROWN REQUIRE COT APPROVAL.
10. CONCRETE PAVER UNITS SHALL BE SAW CUT ONLY, AND ANY CUT UNIT SHALL NOT BE LESS THAN 25% OF A FULL UNIT.
11. THE MAXIMUM WIDTH BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20'-0"
12. EXPANSION JOINT IS TO BE 1/2" THICK CLEAR HEART REDWOOD WITH DOWELS.
13. SCORED CONTRACTION JOINTS SHALL BE EVERY 4' OR EQUAL TO WIDTH OF SIDEWALK.
14. ALL ADJACENT EARTHEN AREAS ARE TO BE SODDED UNLESS SHOWN OTHERWISE ON DRAWINGS AND APPROVED BY CITY ENGINEER.
15. 6 INCH, 5 SACK CEMENT PER CUBIC YARD CONCRETE, 3000 PSI. REINFORCED CONCRETE WITH #3 BARS, 18 INCHES O.C.E.W., FOR SIDEWALKS, #4 BARS 18' O.C.E.W. FOR CURB RAMPS IS THE MINIMUM ACCEPTED. MINIMUM 3 LONGITUDINAL BARS.
16. USE RADIUS TOOL ON ALL EXPOSED EDGES.
17. MEMBRANE CURING COMPOUND IS REQUIRED AS DESCRIBED IN COT STANDARD SPECIFICATION 02775.
18. REFER TO GENERAL NOTES AND CONCRETE/PAVING NOTES.
19. SIDEWALK EXPANSION JOINTS SHALL CONFORM TO STREET EXPANSION JOINT STANDARDS.

DRIVEWAY NOTES

1. SIDEWALK, DRIVEWAY, CURB AND GUTTER AND GRADE SHALL BE APPROVED BY ENGINEERING & PLANNING DIRECTOR.
2. SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5.5 SACK CEMENT PER CUBIC YARD (MIN. 3000 PSI), 4 1/2" THICK, 4'-0" MINIMUM WIDTH, AND BE REINFORCED WITH # 3 @ 18" O.C.E.W.
3. DRIVEWAYS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5.5 SACK CEMENT PER CUBIC YARD (MIN. 3000 PSI), 6" THICK, FROM CURB TO PROPERTY LINE AND BE REINFORCED WITH MINIMUM # 3 @ 18" O.C.E.W. (16" MIN. LENGTH OF LAP) OR # 4 @ 24" O.C.E.W. (22" MIN. LENGTH OF LAP).
4. ONE-INCH BOARD EXPANSION OR 1/2" NON-EXTRUDING PREFORMED JOINT; AT INTERVALS OF 20 FT. (MAXIMUM) THROUGHOUT ENTIRE LENGTH OF SIDEWALKS, WHERE NEW WALK MEETS OLD WALK AND/OR NEW DRIVEWAY.
5. ONE-INCH BOARD EXPANSION OR 1/2" NON-EXTRUDING PREFORMED JOINT, BETWEEN SIDEWALK AND CURB, AROUND FIRE HYDRANTS AND UTILITY POLES.
6. NO WORK PRIOR TO OBTAINING A CITY OF TOMBALL DRIVEWAY PERMIT

NATURAL GAS NOTES

1. CONSTRUCTION OF NATURAL GAS PIPING SYSTEM MUST BE PERFORMED BY AN APPROVED CITY OF TOMBALL CONTRACTOR IN GOOD STANDING WITH THE CITY. ALL PERSONNEL CERTIFICATIONS MUST BE KEPT ON SITE WITH CONSTRUCTION CREW AT ALL TIMES.
2. CONTRACTOR MUST BE IN COMPLIANCE WITH CITY OF TOMBALL ANTI-DRUG AND ALCOHOL MISUSE PLAN BY PARTICIPATING IN AN APPROVED DRUG TESTING PROGRAM. PROOF OF TESTING PROTOCOLS IS REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NATURAL GAS FACILITIES AS PROPOSED IN THIS PLAN SET. ANY DEVIATIONS MUST FIRST BE APPROVED BY THE CITY RECORD AND THE CITY OF TOMBALL PUBLIC WORKS DIRECTOR OR DESIGNATED REPRESENTATIVE.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE MEANS, METHODS, SEQUENCE, PROCEDURES, TECHNIQUES AND/OR SCHEDULING OF ALL PORTIONS OF THE GAS WORK ARE PERFORMED SAFELY AND IN ACCORDANCE WITH CITY OF TOMBALL REQUIREMENTS, OSHA REGULATIONS, AND ANY OTHER STANDARDS OR CODES REQUIRED BY ANY OTHER REGULATORY AGENCY.
5. SHUT-INS AND/OR SYSTEM TIES ARE THE RESPONSIBILITY OF THE CITY O

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SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALL ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
   A) DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
   B) AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
   C) STRUCTURAL CONTROL MEASURES.
   D) LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

TRAFFIC NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. PER HARRIS COUNTY, GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
3. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:30 PM MONDAY THRU FRIDAY.
4. OFF DUTY POLICE OFFICERS/FLAGGERS ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
5. CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW. IF COVERING IS NOT FEASIBLE, USE TRANTEX FR 336 EFX 36" DELINEATOR OR APPROVED EQUAL WITH SHEETING AND BASE EPOXIED TO PAVEMENT NEXT TO EXCAVATION DURING NON-WORKING HOURS.
6. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
7. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT ALTERNATE PLANS" TO TRAFFIC SECTION OF HCPID FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

* THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.

8. IF THE PROJECT IS WITHIN 400 FEET FROM A SIGNALIZED INTERESCTION, THE CONTRACTOR SHALL CONTACT HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, SIGNAL DIVISION, AT 713-881-3210 FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
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SCALE	DESIGN	DRAWN
N/A	AH	CT

GENERAL NOTES

VOLUME 01

Job No.	Sheet No.
00788-002	C1.2
Drawn By: CT	
Date: 07.13.26	

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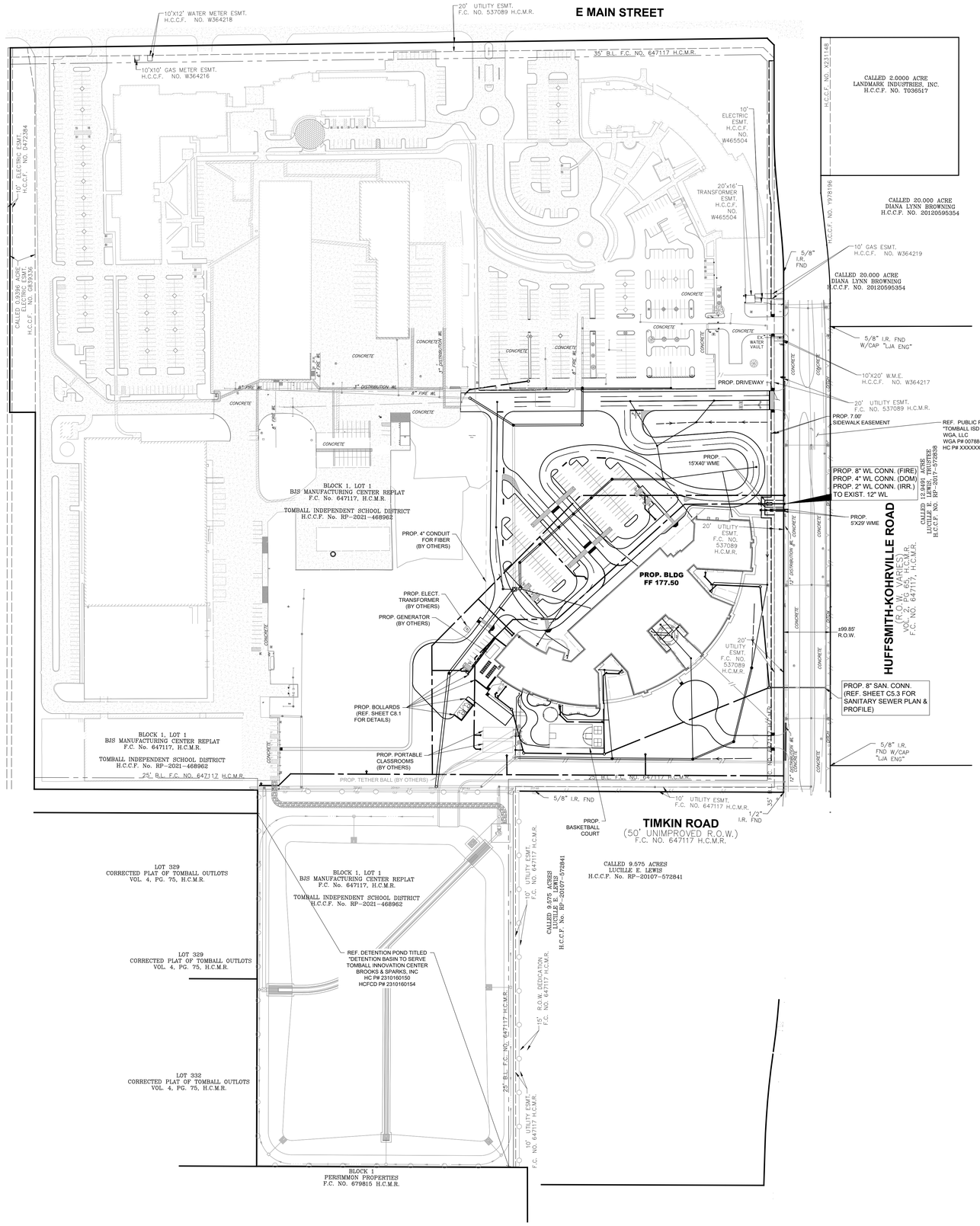

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SCALE: 1" = 100'

OVERALL LAYOUT LEGEND:

	EXISTING STORM SEWER/MANHOLE
	EXISTING LARGE DIAMETER STORM SEWER/MANHOLE
	EXISTING STORM SEWER/CURB INLET/ GRATE INLET
	EXISTING SANITARY SEWER/MANHOLE/ STACK/CLEANOUT
	EXISTING WATER LINE/REDUCER/ GATE VALVE/FIRE HYDRANT
	PROPOSED STORM SEWER/MANHOLE
	PROPOSED LARGE DIAMETER STORM SEWER/MANHOLE
	PROPOSED STORM SEWER/CURB INLET/ GRATE INLET
	PROPOSED SANITARY SEWER/MANHOLE/ STACK/CLEANOUT
	PROPOSED WATER LINE/REDUCER/ GATE VALVE/FIRE HYDRANT
	PROPOSED WATER METER
	PROPOSED WATER BACKFLOW PREVENTER
	PROPOSED CURB

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
TEMPORARY BENCHMARK 'D' ELEVATION - 177.49'

BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

FLOODPLAIN NOTE:

THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0230L MAP REVISED JUNE 18TH, 2007.

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TEXAS REGISTERED ENGINEERING FIRM F-9756
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4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1"=100'	AH	CT

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
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OVERALL LAYOUT
VOLUME 01

Job No.	Sheet No.
00788-002	C1.3
Drawn By: CT	
Date: 07.13.26	

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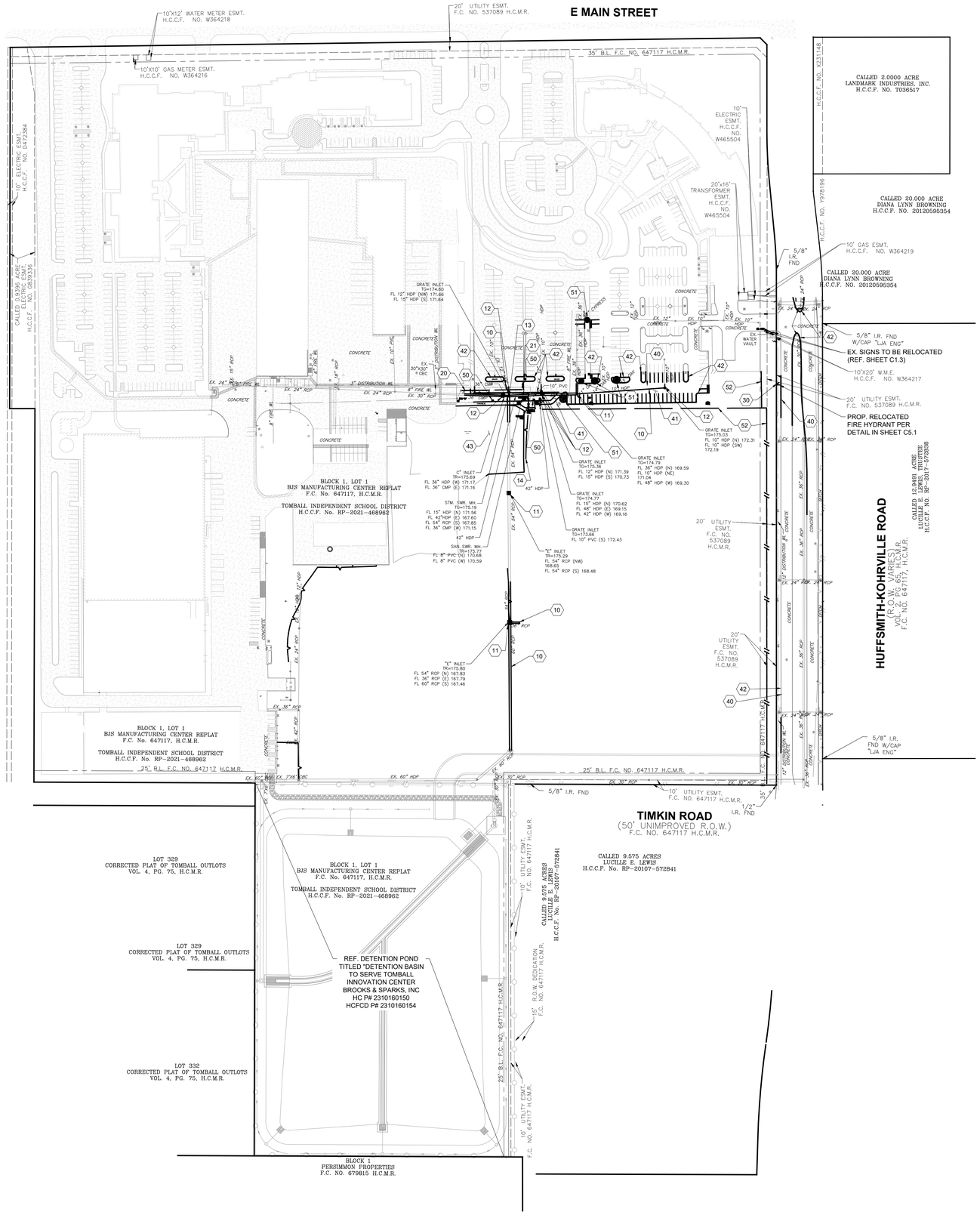


SITE DEMOLITION NOTES:

ALL EXISTING FACILITIES, AS DEPICTED ON THE TOPOGRAPHIC SURVEY, BOTH ABOVE GROUND AND UNDERGROUND, TO BE REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. CONTRACTOR TO CONTACT 811 (CITY OF HOUSTON) OR LOCAL EQUIVALENT PRIOR TO DIGGING OR REMOVAL OF ANY WET OR DRY UTILITIES.

CONTRACTOR TO COORDINATE GAS, ELECTRIC, AND COMMUNICATION REMOVAL/RELOCATION WITH THE PROPER PUBLIC & PRIVATE JURISDICTIONAL AGENCIES. WGA DOES NOT GUARANTEE THE LOCATION OR STATUS OF ANY EXISTING UTILITIES SHOWN.

OVERALL LAYOUT LEGEND:

	PROPERTY LINE
	RIGHT OF WAY LINE

DEMOLITION KEYNOTES

STORM SEWER DEMOLITION:

10	STORM SEWER TO BE REMOVED
11	INLET TO BE REMOVED
12	INLET TO BE CAPPED
13	STORM SEWER MANHOLE TO BE CAPPED
14	SWALE TO BE REMOVED

SANITARY SEWER DEMOLITION:

20	SANITARY SEWER LINE TO BE REMOVED
21	SANITARY MANHOLE TO BE REMOVED

PAVEMENT DEMOLITION:

30	FIRE HYDRANT TO BE REMOVED

PAVEMENT DEMOLITION:

40	PROPOSED SAWCUT
41	CONCRETE PAVING TO BE REMOVED
42	CURB TO BE REMOVED
43	ASPHALT TO BE REMOVED

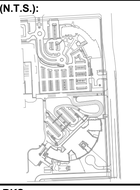
MISCELLANEOUS DEMOLITION:

50	LIGHT POLE TO BE REMOVED
51	TREE TO BE REMOVED
52	FENCE TO BE REMOVED

Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
TEMPORARY BENCHMARK 'D' ELEVATION - 177.49'

BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

FLOODPLAIN NOTE:

THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0220L MAP REVISED JUNE 18TH, 2007.

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120
Houston, Texas 77063
713.789.1900
4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
1"=100'	AH	CT

Huckabee
www.huckabee-inc.com
800.687.1229

DEMOLITION PLAN
VOLUME 01

Job No. 00788-002	Sheet No. C1.4
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 5:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 | Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C1.3 Demolition Plan.dwg Last Plotted: Mon Jul 13, 2026 - 6:51pm By: ctesque

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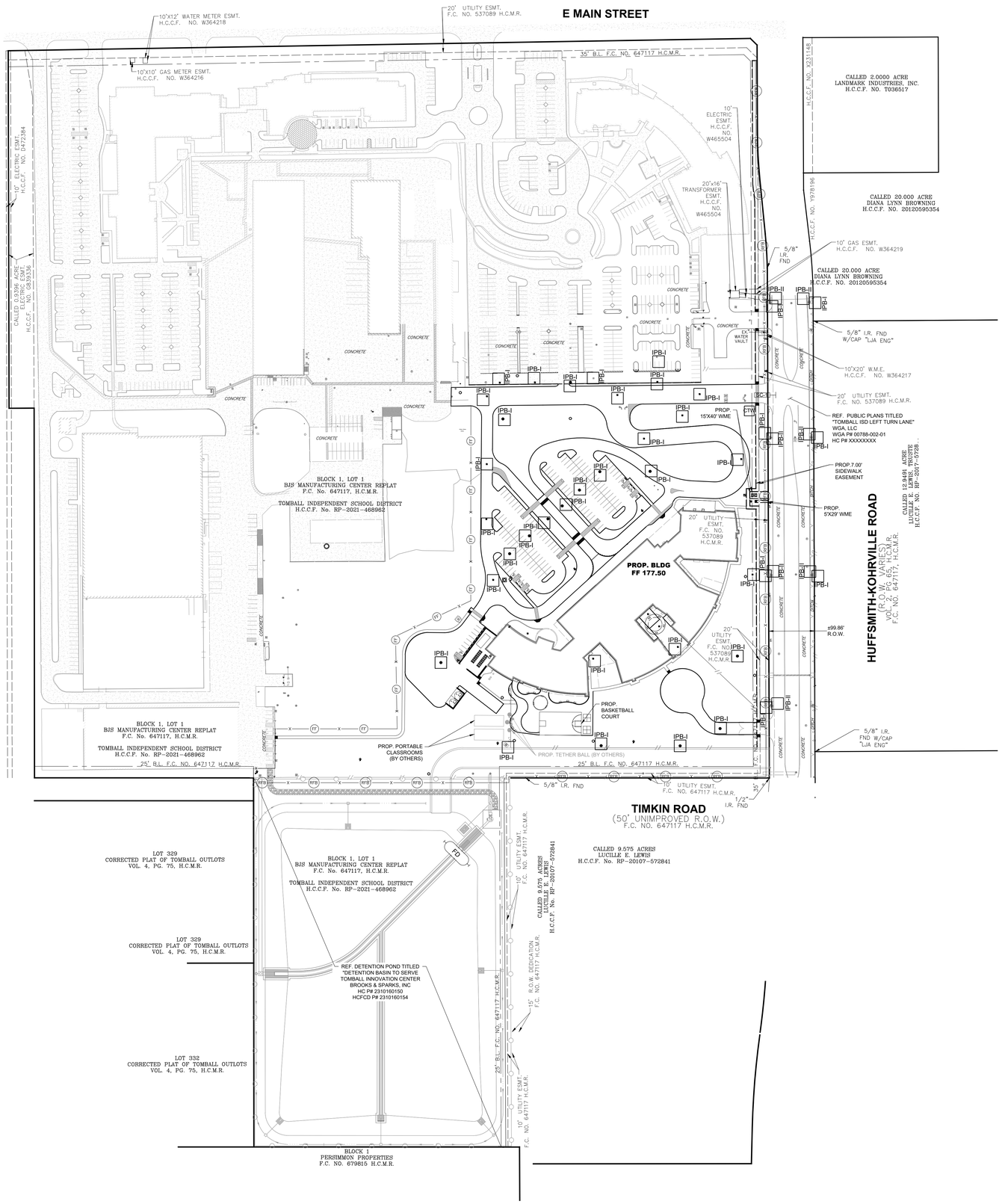

0 100 200

SCALE: 1" = 100'

EROSION CONTROL SCHEDULE AND SEQUENCING

I. ROUGH GRADING
GRADING CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, AND STONE OVERFLOW STRUCTURES SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED.

I. UTILITY INSTALLATION
ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED.

III. PAVING
ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

IV. FINAL GRADING/SOIL
STABILIZATION: ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

SWPPP NOTE:

ANY OFF-SITE STAGING AREA UTILIZED BY THE OPERATOR OF THIS SITE MUST BE INCLUDED IN THE SWPPP NARRATIVE PLAN AND TO SWPPP SITE PLAN AS REQUIRED BY THE TPDES TEXAS GENERAL PERMIT TXR150000 (SECTION F). ANY SUCH AREA INCLUDED IN THE SWPPP WILL BE TREATED BY THE OPERATOR AS ANY OTHER PART OF THE CONSTRUCTION ACTIVITY FOR THE PURPOSES OF STORM WATER POLLUTION PREVENTION.

SWPPP LEGEND:

SC-1	STABILIZED CONSTRUCTION EXIT
x RFB x	REINFORCED FILTER FABRIC FENCE
x FF x	FILTER FABRIC FENCE
IPB-I	INLET PROTECTION BARRIER TYPE I
IPB-II	INLET PROTECTION BARRIER TYPE II
CTW	CONCRETE TRUCK WASHOUT AREA
FD	FILTER DAM

KEY MAP (N.T.S.):



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WGA
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2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1"=100'	AH	CT

Date 07/13/2026
Revision / S&S

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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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Huckabee
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STORM WATER POLLUTION PREVENTION PLAN
VOLUME 01

Job No.	Sheet No.
00788-002	C2.1
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_ARCH.rvt
Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C2.1 SWPPP.dwg Last Plotted: Mon Jul 13, 2026 - 6:53pm By: ctaogue

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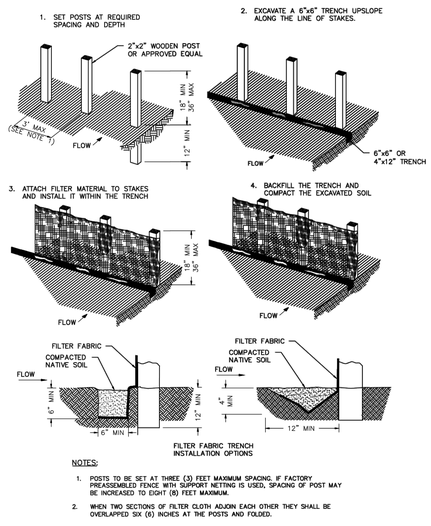
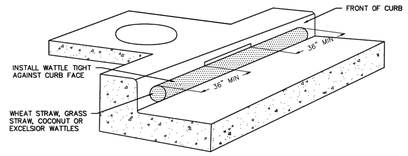


NOTES:

1. POSTS TO BE SET AT THREE (3) FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO EIGHT (8) FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED SIX (6) INCHES AT THE POSTS AND FOLDED.

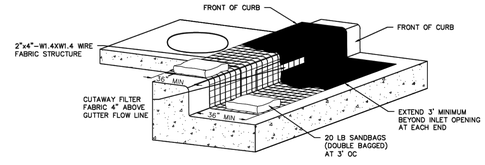
1 FILTER FABRIC FENCE DETAIL
NOT TO SCALE



NOTES:

1. ONLY ALLOWED USE OF APPLICATION IS ON CURB AND GUTTER INLETS.
2. INSTALL WATTLE ALONG INLET WITH WATTLE EXTENDING A MIN OF 36" BEYOND INLET OPENINGS IN EACH DIRECTION.
3. WATTLE MUST BE INSTALLED TIGHTLY AGAINST CURB. MAY REQUIRE ADDITIONAL MEASURES TO ENSURE WATTLE REMAINS TIGHT AGAINST CURB, SUCH AS USING ZIP TIES TO SECURE WATTLE TO INLET'S TRASH BARS OR USING SANDBAGS TO WEIGHT DOWN WATTLE.
4. REPLACE WATTLE AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM.

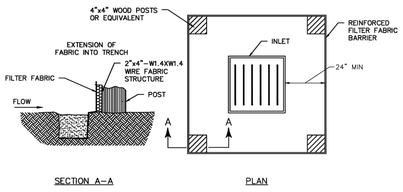
2 WATTLE INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



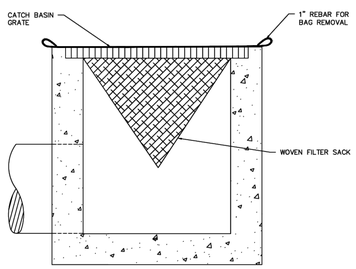
NOTES:

1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C.
2. MINIMUM 3" OVERLAP OF FILTER FABRIC WHERE SPLICE IS NECESSARY.
3. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
4. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION).
5. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OR IF CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.
6. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

3 FILTER FABRIC INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



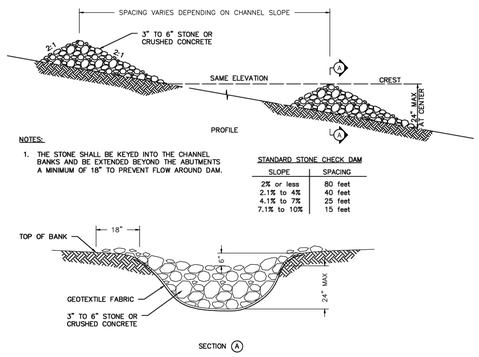
4 STAGE I INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



NOTES:

1. REPLACE SACK AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM.

5 CATCH BASIN INSERT DETAIL
NOT TO SCALE



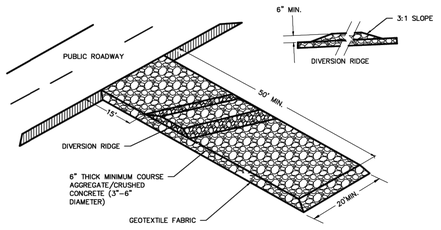
NOTES:

1. THE STONE SHALL BE KEYED INTO THE CHANNEL BANKS AND BE EXTENDED BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND DAM.

STANDARD STONE CHECK DAM

SLOPE	SPACING
2% or less	80 feet
2.1% to 4%	40 feet
4.1% to 7%	25 feet
7.1% to 10%	15 feet

6 ROCK CHECK DAM DETAIL
NOT TO SCALE



NOTES:

1. A STONE STABILIZED PAD SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, PARKING AREA, OR ANY OTHER AREA WHERE THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 3-6 INCH STONE OR CRUSHED CONCRETE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

7 CONSTRUCTION EXIT DETAIL
NOT TO SCALE

NO.	DATE	REVISION

CITY OF TOMBALL
STORM WATER POLLUTION PREVENTION DETAILS

APPROVED BY CITY OF TOMBALL ENGINEERING DEPARTMENT
CITY ENGINEER
EFFECTIVE MARCH 17, 2021

SHEET SWP-01
SEQ.

Date 07/13/2026
Revision / S&S

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
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4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

STORM WATER POLLUTION PREVENTION PLAN DETAILS
VOLUME 01

Job No. 00788-002
Drawn By: CT
Date: 07.13.26
Sheet No. C2.2

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Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C2.2 SWPPP Details.dwg Last Plotted: Mon Jul 13, 2026 - 6:54pm By: ctaogue

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20' UTILITY ESMT.
F.C. NO. 537089 H.C.M.R.

35' B.L. F.C. NO. 647117 H.C.M.R.

20069
Δ 177.89
Chkln TP-508

20252
Δ 177.88
TP Chkln TP-504

HUFFSMITH-KOHRVILLE ROAD
(R.O.W. VARIES)

PROP. 7.00' SIDEWALK ESMT.
PROP. 6.00' SIDEWALK

35' B.L. F.C. NO. 647117 H.C.M.R.

10' GAS ESMT. H.C.C.F. NO. 20120595354

5/8" I.R. FND

CALLED 20.000 ACRE
DIANA LYNN BROWNING
H.C.C.F. NO. 20120595354

10' ELECTRIC ESMT. H.C.C.F. NO. W465504

20'x16' TRANSFORMER ESMT. H.C.C.F. NO. W465504

BRICK WALL

BRICK WALL

5/8" I.R. FND W/CAP "LJA ENG"

PROP. SIGN RELOCATION

EX. WATER VAULT

10'X20' W.M.E. H.C.C.F. NO. W364217

PROP. 7.00' SIDEWALK ESMT.

20' UTILITY ESMT. F.C. NO. 537089 H.C.M.R.

PROP. 6.00' SIDEWALK

24.16' (25.16' B-B)

23.99' (24.99' B-B)

R25.00'

89.96'

±99.79' R.O.W.

REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE"
WGA, LLC
WGA P# 00788-002-01
HC P# XXXXXXXX
FOR PROPOSED LEFT TURN LANE & DRIVEWAY

CALLED 12.9491 ACRE
LUCILLE R. LEWIS, TRUSTEE
H.C.C.F. NO. RP-2017-472583

CALLED 2.000(
LANDMARK INDUST
H.C.C.F. NO. T

H.C.C.F. NO. X231148

H.C.C.F. NO. Y978196

CONCRETE
GRASS
8" OAK
10" OAK
12" OAK
15" OAK
8" CYPRESS
10" CYPRESS
UGV
TE

STOP
R1-1
40.00' (41.00' B-B)
R25.00'
R15.00'
40.00' THREE LANE

MATCHLINE
(SEE SHEET C3.2)

0 30 60
SCALE: 1" = 30'

LEGEND:

	EXISTING PAVEMENT (CONCRETE/ASPHALT AS NOTED)
	PROPOSED 4 ½" CONCRETE PAVEMENT (SIDEWALK)
	PROPOSED 5" CONCRETE PAVEMENT
	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED SALTED CONCRETE (REF. ARCH. FOR DETAILS)
	PROPOSED BUILDING

FIRE LANE LEGEND:

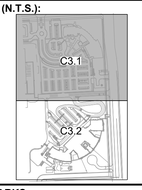
	PROPOSED FIRE LANE

SHEET NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. ALL CURB RADII TO BE 3' (FEET) UNLESS OTHERWISE SHOWN ON PLAN.
4. PROPOSED HANDICAP SIGN SEE PAVEMENT DETAILS.
5. PROPOSED SIGN. REFERENCE LANDSCAPE ARCHITECT PLANS FOR DETAILS.
6. CONTRACTOR SHALL REFERENCE THE LANDSCAPE ARCHITECTURAL PLANS FOR ALL COURTYARD DETAILS.
7. EXISTING SURVEY WAS DONE BY WEST BELT SURVEYING, INC. WITH THEIR CONTACT INFORMATION AS FOLLOWS:

WEST BELT SURVEYING, INC.
21020 PARK ROW KATY, TX 77449
Phone (281) 599-8288 Fax (281) 492-6026

KEY MAP (N.T.S.):



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Sara Karouni

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800.687.1229

DIMENSION CONTROL & SIGNAGE PLAN (1 OF 2)
VOLUME 01

Job No.	Sheet No.
00788-002	C3.1
Drawn By: CT	
Date: 07.13.26	

S&S

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MATCHLINE
(SEE SHEET C3.1)

REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE" WGA, LLC WGA P# 00788-002-01 HC P#:XXXXXXXX

N
0 30 60
SCALE: 1" = 30'

BLOCK 1, LOT 1
BJS MANUFACTURING CENTER REPLAT
F.C. No. 647117, H.C.M.R.

TOMBALL INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. RP-2021-468962

HUFFSMITH-KOHRVILLE ROAD
(VARIES)
VOL. 0, PG. 0, H.C.M.R.
F.C. NO. 647117, H.C.M.R.

CALLED 12.9491 ACRE
LAND TITLE INSTRUMENT
H.C.C.F. NO. RP-2021-475858

TIMKIN ROAD
(50' UNIMPROVED, R.O.W.)
F.C. NO. 647117 H.C.M.R

PROP. BLDG FF 177.50

PROP. FLAGPOLE (BY OTHERS)

PROP. FENCE (BY OTHERS)
PROP. GATE W/ 911 KNOX BOX
PROP. ELECT. TRANSFORMER (BY OTHERS)
PROP. GENERATOR (BY OTHERS)
PROP. BOLLARDS (REF. SHEET C8.1 FOR DETAIL)
PROP. PORTABLE CLASSROOMS (BY OTHERS)
PROP. TETHER BALL (BY OTHERS)
PROP. BASKETBALL COURT
PROP. FLEXIBLE DELINEATOR POSTS (BY OTHERS)
PROP. 46.23' OF 4"X12" CURB
PROP. 46.83' OF 4"X12" CURB
PROP. 15'X40' WME
PROP. 8.00' SIDEWALK ESMT.
PROP. 5'X29' WME
PROP. GATE W/ 911 KNOX BOX
PROP. ADA RAMP
PROP. 7.00' SIDEWALK ESMT.
PROP. 6.00' SIDEWALK
PROP. 5.00' SIDEWALK
PROP. 1.00' MOW STRIP
PROP. GATE W/ 911 KNOX BOX

REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE" WGA, LLC WGA P# 00788-002-01 HC P# XXXXXXXX FOR PROPOSED DRIVEWAY

LEGEND:

	EXISTING PAVEMENT (CONCRETE/ASPHALT AS NOTED)
	PROPOSED 4 ½" CONCRETE PAVEMENT (SIDEWALK)
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	PROPOSED 6" CONCRETE PAVEMENT
	PROPOSED 7" CONCRETE PAVEMENT
	PROPOSED SALTED CONCRETE (REF. ARCH. FOR DETAILS)
	PROPOSED BUILDING

FIRE LANE LEGEND:

	PROPOSED FIRE LANE

SHEET NOTES:

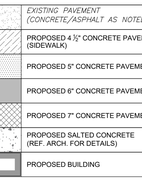
1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. ALL CURB RADII TO BE 3' (FEET) UNLESS OTHERWISE SHOWN ON PLAN.
4. PROPOSED HANDICAP SIGN SEE PAVEMENT DETAILS.
5. PROPOSED SIGN. REFERENCE LANDSCAPE ARCHITECT PLANS FOR DETAILS.
6. CONTRACTOR SHALL REFERENCE THE LANDSCAPE ARCHITECTURAL PLANS FOR ALL COURTYARD DETAILS.
7. EXISTING SURVEY WAS DONE BY WEST BELT SURVEYING, INC. WITH THEIR CONTACT INFORMATION AS FOLLOWS:

WEST BELT SURVEYING, INC.
21020 PARK ROW KATY, TX 77449
Phone (281) 599-8288 Fax (281) 492-6026

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
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BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

FLOODPLAIN NOTE:

THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0230L MAP REVISED JUNE 18TH, 2007.

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26

Huckabee
www.huckabee-inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

DIMENSION CONTROL & SIGNAGE PLAN (2 OF 2)
VOLUME 01

Job No.	Sheet No.
00788-002	C3.2
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C3.1-3.2 Dimension Control Plan.dwg Last Plotted: Mon Jul 13, 2026 - 6:52pm By: ctaegue

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MATCHLINE
(SEE SHEET C4.2)

0 30 60
SCALE: 1" = 30'

GRADING NOTES:

1. ALL SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.
3. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).
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5. ALL EXISTING APPURTENANCES ON SITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.
6. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT AND ALL ADDENDA FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.
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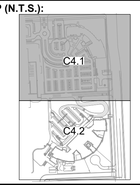
GRADING LEGEND:

79.50	*EXISTING GRADE*
TC79.50	TOP OF CURB
G79.50	GUTTER
TP79.50	TOP OF PAVEMENT
TG79.50	TOP OF GRATE
79.50	PROPOSED NATURAL GROUND
79.50±ME	MATCH EXISTING
HP79.50	HIGH POINT
TW79.50	TOP OF WALL
BW79.50	BASE OF WALL
TS79.50	TOP OF STAIR
BS79.50	BOTTOM OF STAIR
(1)	TRANSITION CURB 0" - 6" WITHIN 5 FEET
	SWALE
	HIGH POINT
130	EXISTING CONTOUR
130	PROPOSED CONTOUR

KEY MAP (N.T.S.):



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WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

Revision / S&S	Date
	07/13/2026

Project:
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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26

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800.687.1229

GRADING PLAN (1 OF 2)
VOLUME 01

Job No.	Sheet No.
00788-002	C4.1
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C4.1~4.2 Grading Plan.dwg Last Plotted: Mon Jul 13, 2026 – 6:51pm By: ckeague

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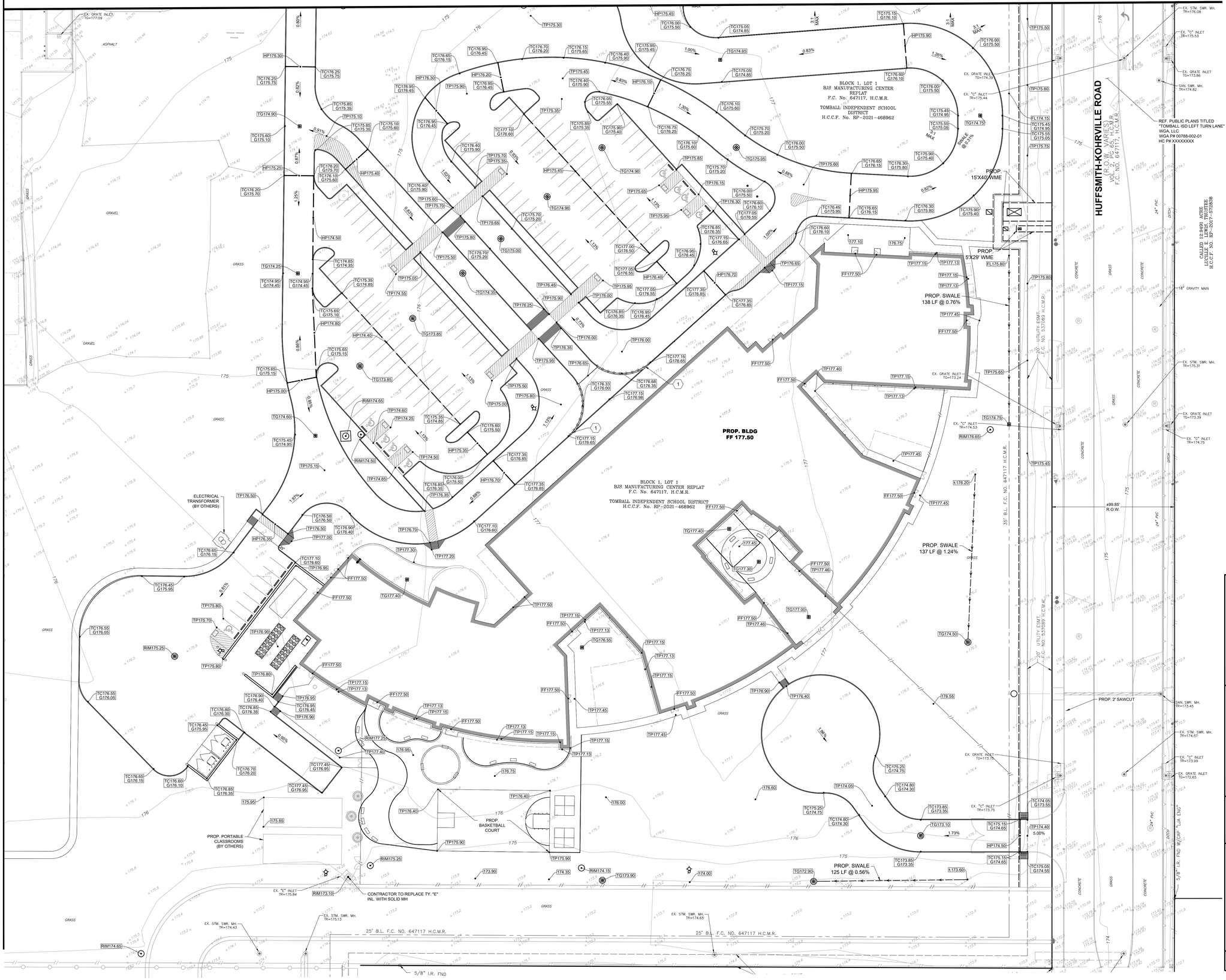
MATCHLINE
(SEE SHEET C4.1)



0 30 60
SCALE: 1" = 30'

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(1)	TRANSITION CURB 4" - 6" WITHIN 8 FEET
	SWALE
	HIGH POINT
130	EXISTING CONTOUR
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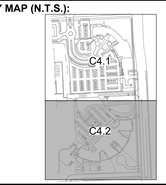
KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 160.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

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WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
Sara Karouni
7/13/26

Huckabee
www.huckabee-inc.com
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GRADING PLAN
(2 OF 2)
VOLUME 01

Job No. 00788-002 | Sheet No. C4.2
Drawn By: CT
Date: 07.13.26

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11/18/2025 8:39:39 AM
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20' UTILITY ESMT.
F.C. NO. 537089 H.C.M.R.

35' B.L. F.C. NO. 647117 H.C.M.R.

HUFFSMITH-KOHRVILLE ROAD
(R.O.W. VARIES)

H.C.C.F. NO. X231148

H.C.C.F. NO. Y978196

0 30 60
SCALE: 1" = 30'

ONE-CALL NOTIFICATION SYSTEM
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(New Statewide Number Outside Houston)
1-800-344-8377

UTILITY NOTES:

1. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
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8. ALL SANITARY SEWERS CROSSING WATER LINES WITH A 6 INCHES TO 9 FEET CLEARANCE SHALL HAVE A MINIMUM OF 18' JOINT OF 150 P.S.I. SDR 26 PVC PIPE MEETING ASTM SPECIFICATION D2241 CENTERED ON WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER PROVIDE MINIMUM 2 FOOT SEPARATION.
9. REFERENCE MEP PLANS FOR UTILITY CONDUIT LOCATIONS.

PIPING MATERIAL SCHEDULE

SANITARY SEWER - 6" AND SMALLER	SCHEDULE 40 PVC
SANITARY SEWER - 8" AND LARGER	SDR-26 PVC
WATER LINE - SMALLER THAN 4"	SCHEDULE 40 PVC AS PER ASTM D1785
WATER LINE - 4" TO 12"	PVC CLASS 150, DR-18, AWWA C-900

OVERALL LAYOUT LEGEND:

- PROPOSED SANITARY SEWER/MANHOLE/ STACK/CLEANOUT
- PROPOSED LARGE DIAMETER SANITARY SEWER/MANHOLE
- PROPOSED WATER LINE/REDUCER/ GATE VALVE/FIRE HYDRANT

UTILITY CROSSINGS:

	STORM ↕	SANITARY ↕	CLEARANCE
A	12"℄=171.63'	8"℄=169.38'	1.58'

* CLEARANCE LESS THAN ONE FOOT. CONTRACTOR TO CEMENT STABILIZE.

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

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2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

Revision / S&S — Date 07/13/2026

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STATE OF TEXAS
SARA KAROUNI
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LICENSED
PROFESSIONAL ENGINEER
07/13/26

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UTILITY PLAN - WATER & SANITARY (1 OF 2)
VOLUME 01

Job No.	Sheet No.
00788-002	C5.1
Drawn By: CT	
Date: 07.13.26	

S&S

PROP. 4" CONDUIT FOR FIBER (BY OTHERS)

PROP. SAN. CLEAN OUT

PROP. 8" SAN. 140 LF @ 0.50%

PROP. SAN. MH. RIM=175.60 8"℄=169.59 (W)

PROP. FH. RELOCATION

SAN. SWR. MH. TR=176.32 FL 8" PVC (E) 169.81 FL 8" PVC (SW) 168.89 8"℄=168.89 (NE)

SAN. SWR. MH. TR=175.53 FL 8" PVC (N) 171.58 FL 8" PVC (E) 171.62

SAN. SWR. MH. TR=175.90 FL 8" PVC (NE) 169.07 FL 8" PVC (SW) 168.97

EX. STM. SWR. MH. TR=175.68 FL 36" HDP (N) 169.05 FL 36" HDP (S) 169.85

EX. GRATE INLET TG=175.00 FL 10" HDP (S) 172.43

EX. GRATE INLET TG=175.00 FL 36" HDP (N) 169.90 FL 36" HDP (S) 169.88

EX. GRATE INLET TG=175.53 FL 12" HDP (N) 172.15 FL 12" HDP (W) 172.30

EX. GRATE INLET TG=175.88 FL 10" HDP (NE) 172.91 FL 10" HDP (E) 172.80 FL 10" HDP (W) 172.68

EX. GRATE INLET TG=175.88 FL 10" HDP (E) 172.40 FL 10" HDP (W) 172.42

EX. GRATE INLET TG=174.50 FL 10" HDP (N) 171.65 FL 12" HDP (SE) 171.58

EX. GRATE INLET TG=174.09 FL 36" CMP (E) 171.33 FL 30" RCP (W) 170.96

EX. GRATE INLET TG=174.09 FL 30"X30" CBC (N) 171.36 FL 36" CMP (E) 171.33 FL 30" RCP (W) 170.96

10' ELECTRIC ESMT. H.C.C.F. NO. W465504

20'x16' TRANSFORMER ESMT. H.C.C.F. NO. W465504

BRICK WALL

35' B.L. F.C. NO. 647117 H.C.M.R.

10' GAS ESMT. H.C.C.F. NO. W014067

5/8" I.R. FND

CALLED 20.000 ACRE DIANA LYNN BROWNING H.C.C.F. NO. 20120595354

EX. GRATE INLET TG=173.62 FL 2'X2' CBC (E) 173.62

EX. "C" INLET TG=176.34 FL 24" RCP (E) 170.54 FL 2'X3' CBC (W) 173.25

EX. STM. SWR. MH. TG=177.35 FL 24" RCP (N) 168.65 FL 24" RCP (E) 169.62 FL 30" RCP (S) 167.90 FL 24" RCP (W) 169.70

EX. GRATE INLET TG=174.29 FL 2'X2' CBC (W) 172.76

EX. "C" INLET TG=176.40 FL 2'X2' CBC (E) 172.68 FL 24" RCP (W) 170.00

5/8" I.R. FND W/CAP "LJA ENG"

±99.78' R.O.W.

EX. WATER VAULT

10'X20' W.M.E. H.C.C.F. NO. W364217

20' UTILITY ESMT. F.C. NO. 537089 H.C.M.R.

REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE" WGA, LLC WGA P# 00788-002-01 HC P# XXXXXXXX

CALLED 12.9491 ACRE LUCILLE E. LEWIS, TRUSTEES H.C.C.F. NO. RF-2017-572658

206.77' TO EX. FIRE HYDRANT

ALMO IND

MATCHLINE
(SEE SHEET C5.2)

11/18/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 - Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C5.1~5.2 Utility Plan~ Water & Sanitary.dwg Last Plotted: Mon Jul 13, 2026 ~ 6:56pm By: ctaogue

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MATCHLINE
(SEE SHEET C5.1)

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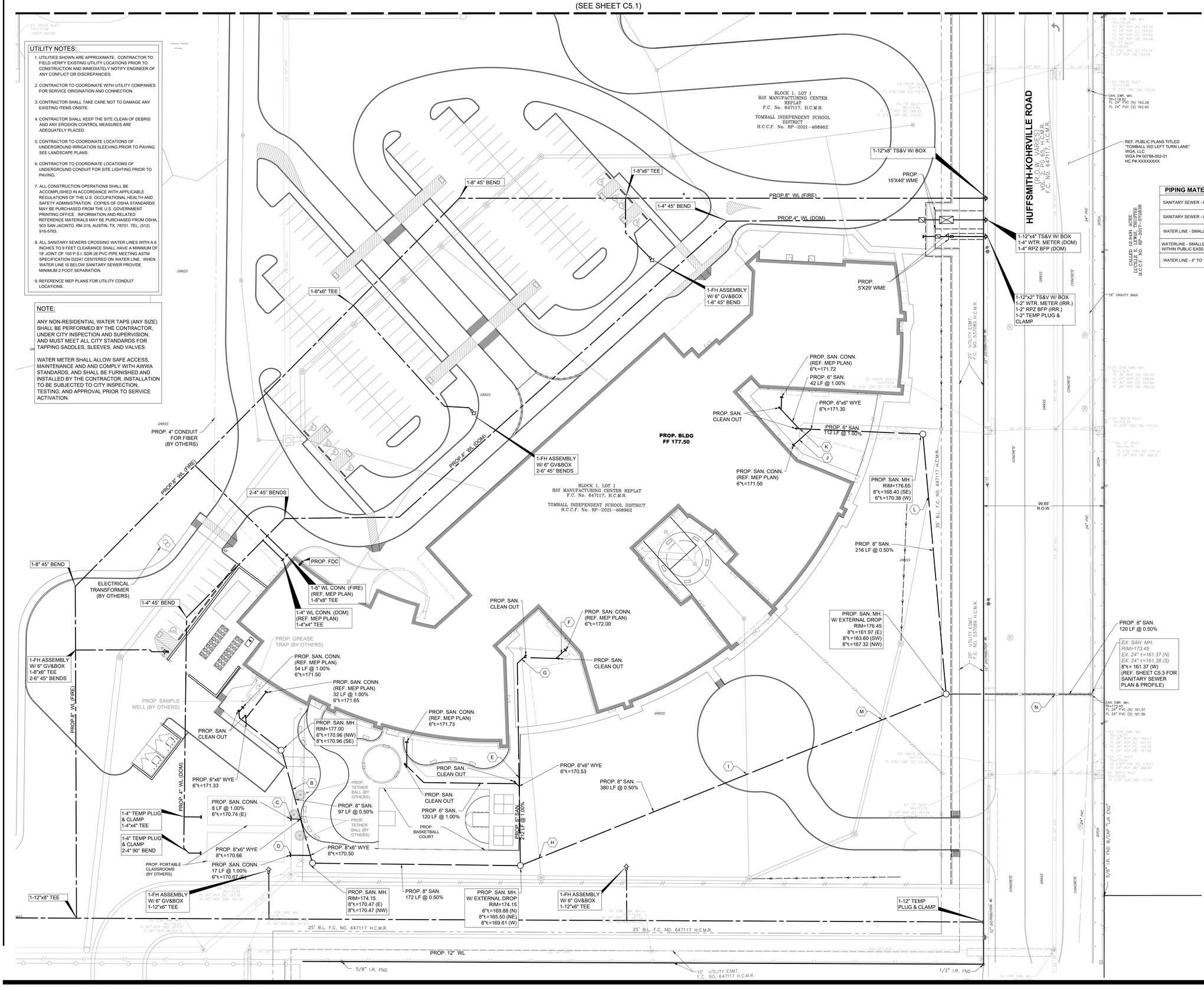
NOTE:

ANY NON-RESIDENTIAL WATER TAPS (ANY SIZE) SHALL BE PERFORMED BY THE CONTRACTOR, UNDER CITY INSPECTION AND SUPERVISION, AND MUST MEET ALL CITY STANDARDS FOR TAPPING SADDLES, SLEEVES, AND VALVES.

WATER METER SHALL ALLOW SAFE ACCESS, MAINTENANCE AND AND COMPLY WITH AWWA STANDARDS, AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. INSTALLATION TO BE SUBJECTED TO CITY INSPECTION, TESTING, AND APPROVAL PRIOR TO SERVICE ACTIVATION.


BLOCK 1, LOT 1
BJS MANUFACTURING CENTER REPLAT
F.C. No. 647117, H.C.M.R.
TOMBALL INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. RP-2021-468962
HUFFSMITH-KOHRVILLE ROAD
(FM 2920)
VOL. 2, PG. 65, H.C.M.R.
F.C. NO. 647117, H.C.M.R.
1-12"x8" TS&V W/ BOX
PROP. 15'X40' WME
1-8"x6" TEE
1-8" 45° BEND
PROP.8" WL (FIRE)
1-4" 45° BEND
PROP.4" WL (DOM)
1-12"x4" TS&V W/ BOX
1-4" WTR. METER (DOM)
1-4" RPZ BFP (DOM)
1-FH ASSEMBLY W/ 6" GV&BOX 1-6" 45° BEND
PROP. 5'X29' WME
1-12"x2" TS&V W/ BOX
1-2" WTR. METER (IRR.)
1-2" RPZ BFP (IRR.)
1-2" TEMP PLUG & CLAMP
1-8"x6" TEE
PROP. SAN. CONN. (REF. MEP PLAN) 6"ŧ=171.72
PROP. 6" SAN. 42 LF @ 1.00%
PROP. 6"x6" WYE 6"ŧ=171.30
PROP. SAN. CLEAN OUT
PROP. 6" SAN. 112 LF @ 1.00%
PROP. BLDG FF 177.50
PROP. 4" CONDUIT FOR FIBER (BY OTHERS)
PROP.8" WL (FIRE)
PROP.4" WL (DOM)
1-FH ASSEMBLY W/ 6" GV&BOX 2-6" 45° BENDS
2-4" 45° BENDS
PROP. SAN. CONN. (REF. MEP PLAN) 6"ŧ=171.50
PROP. SAN. MH. RIM=176.65 8"ŧ=168.40 (SE) 6"ŧ=170.38 (W)
PROP. 8" SAN. 216 LF @ 0.50%
PROP. SAN. MH. W/ EXTERNAL DROP RIM=176.45 8"ŧ=161.97 (E) 8"ŧ=163.60 (SW) 8"ŧ=167.32 (NW)
PROP. 8" SAN. 120 LF @ 0.50%
EX. SAN. MH. RIM=173.45 EX. 24" ŧ=161.37 (N) EX. 24" ŧ=161.38 (S) 8"ŧ= 161.37 (W) (REF. SHEET C5.3 FOR SANITARY SEWER PLAN & PROFILE)
1-8" 45° BEND
ELECTRICAL TRANSFORMER (BY OTHERS)
PROP. FDC
1-8" WL CONN. (FIRE) (REF. MEP PLAN) 1-8"x8" TEE
1-4" WL CONN. (DOM) (REF. MEP PLAN) 1-4"x4" TEE
1-4" 45° BEND
PROP. GREASE TRAP (BY OTHERS)
1-FH ASSEMBLY W/ 6" GV&BOX 1-8"x6" TEE 2-6" 45° BENDS
PROP. SAMPLE WELL (BY OTHERS)
PROP. SAN. CONN. (REF. MEP PLAN) 54 LF @ 1.00% 6"ŧ=171.50
PROP. SAN. CONN. (REF. MEP PLAN) 32 LF @ 1.00% 6"ŧ=171.65
PROP. SAN. MH. RIM=177.00 6"ŧ=170.96 (NW) 8"ŧ=170.96 (SE)
PROP. SAN. CLEAN OUT
PROP. SAN. CONN. (REF. MEP PLAN) 6"ŧ=171.73
PROP. SAN. CLEAN OUT
PROP. SAN. CONN. (REF. MEP PLAN) 6"ŧ=172.00
PROP. SAN. CLEAN OUT
PROP. 6"x6" WYE 6"ŧ=170.53
PROP. 8" SAN. 380 LF @ 0.50%
PROP. 6"x6" WYE 6"ŧ=171.33
PROP. SAN. CONN. 8 LF @ 1.00% 6"ŧ=170.74 (E)
PROP. 8" SAN. 97 LF @ 0.50%
PROP. TETHER BALL (BY OTHERS)
PROP. SAN. CLEAN OUT
PROP. 6" SAN. 120 LF @ 1.00%
PROP. BASKETBALL COURT
PROP. 8" SAN. 212 LF @ 1.00%
1-4" TEMP PLUG & CLAMP 1-4"x4" TEE
1-4" TEMP PLUG & CLAMP 2-4" 90° BEND
PROP. 8"x6" WYE 8"ŧ=170.66
PROP. 8"x6" WYE 8"ŧ=170.50
PROP. PORTABLE CLASSROOMS (BY OTHERS)
PROP. SAN. CONN. 17 LF @ 1.00% 6"ŧ=170.67 (E)
1-12"x8" TEE
1-FH ASSEMBLY W/ 6" GV&BOX 1-12"x6" TEE
PROP. SAN. MH. RIM=174.15 8"ŧ=170.47 (E) 8"ŧ=170.47 (NW)
PROP. 8" SAN. 172 LF @ 0.50%
PROP. SAN. MH. W/ EXTERNAL DROP RIM=174.15 6"ŧ=169.88 (N) 8"ŧ=165.50 (NE) 8"ŧ=169.61 (W)
1-FH ASSEMBLY W/ 6" GV&BOX 1-12"x6" TEE
1-12" TEMP PLUG & CLAMP
25' B.L. F.C. NO. 647117 H.C.M.R.
PROP. 12" WL
5/8" I.R. FND
1/2" I.R. FND
10' UTILITY ESMT. F.C. NO. 647117 H.C.M.R.
20' UTILITY ESMT. F.C. NO. 537089 H.C.M.R.
12" DISTRIBUTION WL
35' B.L. F.C. NO. 647117 H.C.M.R.
99.85' R.O.W.
24" PVC
CONCRETE
GRASS
DITCH
5/8" I.R. FND W/CAP "LJA ENG"
REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE" WGA, LLC WGA P# 00788-002-01 HC P# XXXXXXXX
ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
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(New Statewide Number Outside Houston)
1-800-344-8377
SAN. SWR. MH. TIN=174.90 FL 24" PVC (N) 162.28 FL 24" PVC (S) 162.40
EX. "C" INLET TIN=175.53 FL 2'X2' CBC (E) 172.39 FL 24" RCP (W) 169.09
EX. GRATE INLET TIN=173.86 FL 2'X2' CBC (W) 172.26
EX. GRATE INLET TIN=174.51 FL 2'X2' CBC (E) 172.30
EX. "C" INLET TIN=175.44 FL 24" RCP (E) 169.83 FL 2'X2' CBC (W) 172.30
EX. STM. SWR. MH. TIN=176.08 FL 30" RCP (N) 167.74 FL 24" RCP (E) 169.63 FL 30" RCP (S) 167.68 FL 24" RCP (W) 169.06
EX. GRATE INLET TIN=173.24 FL 2'X2' CBC (E) 172.79
EX. "C" INLET TIN=173.76 FL 24" RCP (E) 167.74
EX. GRATE INLET TIN=173.76 FL 2'X2' CBC (W) 171.19
EX. "C" INLET TIN=174.75 FL 2'X2' CBC (E) 171.16 FL 24" RCP (W) 168.39
EX. STM. SWR. MH. TIN=174.90 FL 30" RCP (N) 167.23 FL 24" RCP (E) 168.20 FL 36" RCP (S) 163.64 FL 24" RCP (W) 168.28
EX. GRATE INLET TIN=173.76 FL 2'X2' CBC (W) 171.08
EX. STM. SWR. MH. TIN=173.99 FL 30" RCP (N) 166.55 FL 24" RCP (E) 167.37 FL 30" RCP (S) 166.39 FL 24" RCP (W) 167.49
EX. "C" INLET TIN=173.99 FL 2'X2' CBC (E) 170.91 FL 24" RCP (W) 168.66
EX. GRATE INLET TIN=173.65 FL 2'X2' CBC (W) 171.08
SAN. SWR. MH. TIN=173.45 FL 24" PVC (N) 161.37 FL 24" PVC (S) 161.38
EX. STM. SWR. MH. TIN=173.45 FL 30" RCP (N) 161.17 FL 30" RCP (E) 161.17 FL 30" RCP (S) 161.17 FL 30" RCP (W) 161.19
EX. STM. SWR. MH. TIN=174.55 FL 30" RCP (N) 167.55 FL 30" RCP (S) 167.55 FL 60" RCP (W) 167.33
EX. STM. SWR. MH. TIN=174.55 FL 60" RCP (N) 167.55 FL 60" RCP (W) 167.19
EX. STM. SWR. MH. TIN=174.55 FL 60" RCP (E

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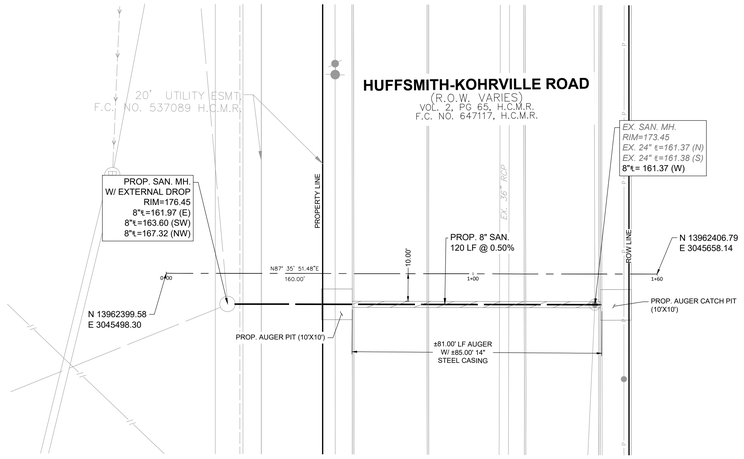

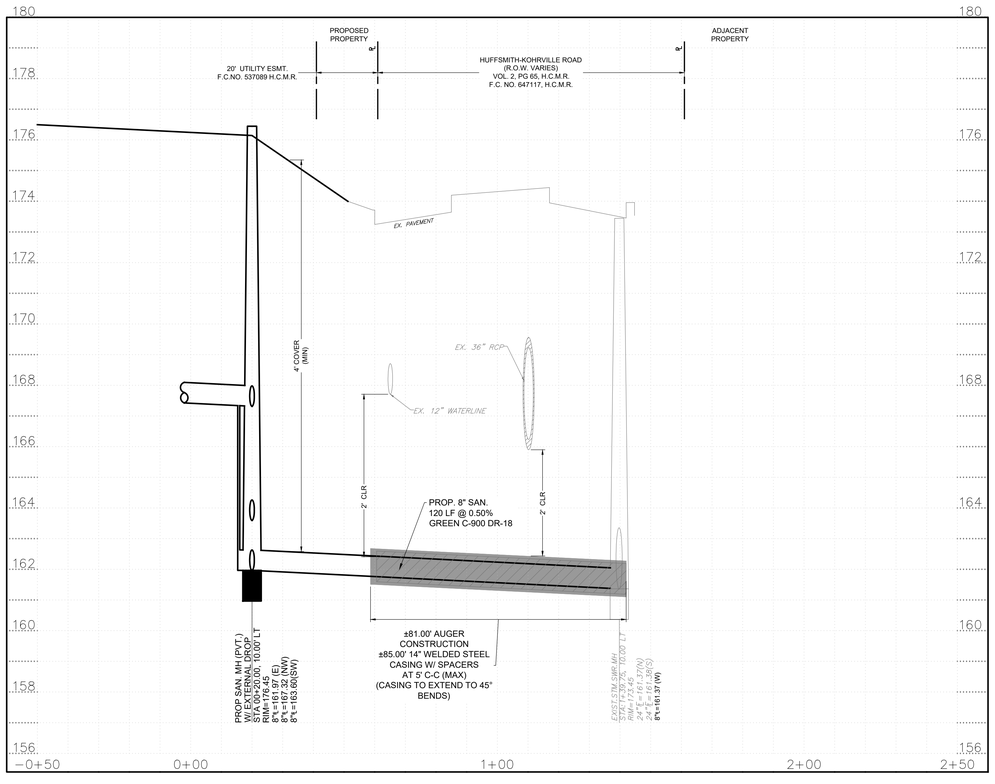

N

0 20 40

SCALE: 1" = 20'

Revision /	Date
S&S	07/13/2026

Project:

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
TEMPORARY BENCHMARK 'D' ELEVATION - 177.49'

BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

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THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0235L MAP REVISED JUNE 18TH, 2007.

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120
Houston, Texas 77063
713.789.1900
4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
H: 1"=20' V: 1"=2'	AH	CT

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26

Huckabee
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PLAN & PROFILE - 8" SANITARY SEWER
VOLUME 01

Job No.	Sheet No.
00788-002	C5.3
Drawn By: CT	
Date: 07.13.26	

S&S

11/19/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt
Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C5.3 Sanitary Sewer P&P.dwg Last Plotted: Mon Jul 13, 2026 – 6:56pm By: cteague

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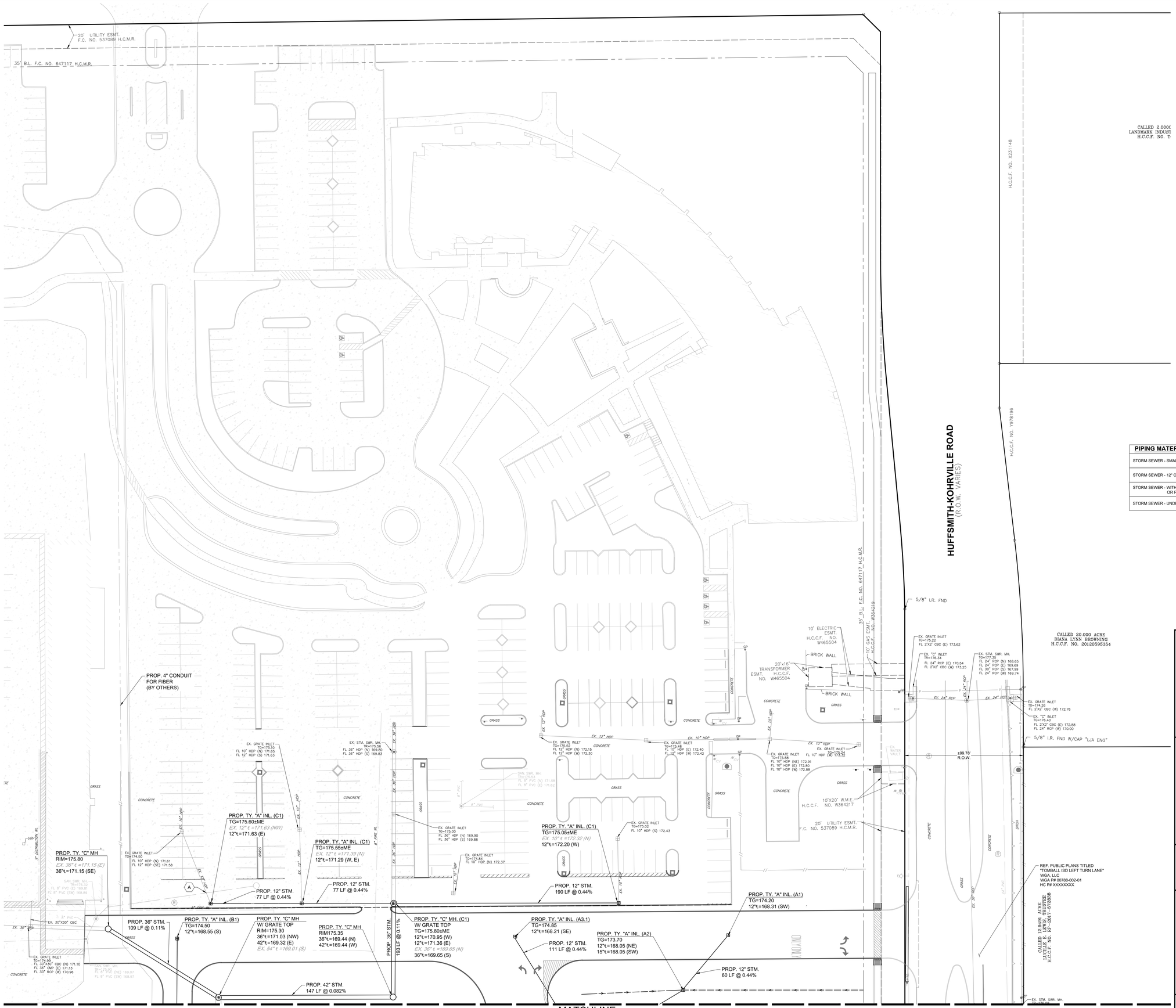

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1-800-344-8377

UTILITY NOTES:

1. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
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5. CONTRACTOR TO COORDINATE LOCATIONS OF UNDERGROUND IRRIGATION SLEEVING PRIOR TO PAVING. SEE LANDSCAPE PLANS.
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8. ALL SANITARY SEWERS CROSSING WATER LINES WITH A 6 INCHES TO 9 FEET CLEARANCE SHALL HAVE A MINIMUM OF 18' JOINT OF 150 P.S.I. SDR 26 PVC PIPE MEETING ASTM SPECIFICATION D2241 CENTERED ON WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER PROVIDE MINIMUM 2 FOOT SEPARATION.
9. REFERENCE MEP PLANS FOR UTILITY CONDUIT LOCATIONS.

PIPING MATERIAL SCHEDULE

STORM SEWER - SMALLER THAN 12"	SDR-35 PVC PER ASTM D3034
STORM SEWER - 12" OR LARGER (PRIVATE)	DUAL-WALLED HDPE, AASHTO M252 & M294
STORM SEWER - WITHIN PUBLIC EASEMENT OR RIGHT-OF-WAY	RCP, C-76, CLASS III
STORM SEWER - UNDERNEATH BUILDING	SCHEDULE 40 PVC

OVERALL LAYOUT LEGEND:

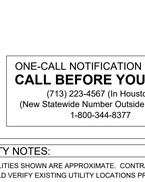
	PROPOSED STORM SEWER/MANHOLE
	PROPOSED LARGE DIAMETER STORM SEWER/MANHOLE
	PROPOSED STORM SEWER/CURB INLET/ GRATE INLET

UTILITY CROSSINGS:

	STORM ℄	SANITARY ℄	CLEARANCE
A	12"℄=171.63'	8"℄=169.38'	1.58'

* CLEARANCE LESS THAN ONE FOOT. CONTRACTOR TO CEMENT STABILIZE.

KEY MAP (N.T.S.):



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BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFFSMITH-KOHRVILLE RAD ±1,170' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
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BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
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BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

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WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

Revision /	Date
S&S	07/13/2026

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26
Sara Karouni

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UTILITY PLAN - STORM SEWER (1 OF 2)
VOLUME 01

Job No.	Sheet No.
00788-002	C6.1
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

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MATCHLINE
(SEE SHEET C6.1)

N

0 30 60
SCALE: 1" = 30'

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9. REFERENCE MEP PLANS FOR UTILITY CONDUIT LOCATIONS.

EX. GRATE INLET TG=177.09 UNDER WATER

ASPHALT

PROP. 12" STM. 148 LF @ 0.44%

EX. 64" RCP

PROP. TY. "A" INL. (B2) TG=174.90 12"℄=167.90 (N) 15"℄=167.90 (S)

PROP. 15" STM. 120 LF @ 0.33%

EX. 54" RCP

PROP. TY. "A" INL. (B3) TG=174.25 15"℄=167.50 (N) 18"℄=167.50 (SE)

GRASS

PROP. 18" STM. 133 LF @ 0.26%

PROP. J-BOX RIM=174.65 24"℄=167.11 (NW) 42"℄=167.11 (E) 54"℄=166.91 (N) 60"℄=167.11 (SW)

GRAVEL

PROP. TY. "A" INL. (B4) TG=174.60 18"℄=167.16 (N) 24"℄=167.16 (E)

PROP. 4" CONDUIT FOR FIBER (BY OTHERS)

GRASS

PROP. 24" STM. 25 LF @ 0.18%

PROP. TY. "A" INL. (A3) TG=174.65 12"℄=167.73 (NW) 15"℄=167.73 (NE) 24"℄=167.73 (SW)

PROP. 15" STM. 98 LF @ 0.33%

PROP. 24" STM. 73 LF @ 0.18%

BLOCK 1, LOT 1
BJS MANUFACTURING CENTER REPLAT
F.C. No. 647117, H.C.M.R.

TOMBALL INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. RP-2021-468962

PROP. TY. "A" INL. (A4) TG=175.05 6"℄=171.02 (SE) 18"℄=169.59 (NE) 24"℄=167.59 (NE) 30"℄=167.59 (W)

PROP. TY. "C" MH. (A5) W/ GRATE TOP TG=174.90 30"℄=167.45 (E, SW)

PROP. TY. "C" MH. (A6) W/ GRATE TOP TG=174.90 30"℄=167.37 (NE) 36"℄=167.37 (SW)

PROP. 30" STM. 110 LF @ 0.13%

PROP. 30" STM. 60 LF @ 0.13%

PROP. 18" STM. 201 LF @ 0.26%

18"℄=169.93

PROP. CB (A4.1) TG=174.75 18"℄=170.12 (SW)

EX. GRATE INLET TG=174.59 FL 2'X2' CBC (E) 172.59

EX. "C" INLET TR=175.43 FL 24" RCP (E) 169.33 FL 2'X2' CBC (W) 172.50

EX. 24" RCP

EX. 24" RCP

EX. STM. SWR. MH. TR=176.08 FL 30" RCP (N) 167.74 FL 24" RCP (E) 169.03 FL 30" RCP (S) 167.68 FL 24" RCP (W) 169.06

EX. "C" INLET TR=175.53 FL 2'X2' CBC (E) 172.39 FL 24" RCP (W) 169.09

EX. GRATE INLET TG=173.86 FL 2'X2' CBC (W) 172.26

SAN. SWR. MH. TR=174.80 FL 24" PVC (N) 163.28

REF. PUBLIC PLANS TITLED "TOMBALL ISD LEFT TURN LANE" WGA, LLC WGA P# 00788-002-01 HC P# XXXXXXXX

HUFFSMITH-KOHRVILLE ROAD
(R.O.W. VARIES)
VOL. 2, PG. 65, H.C.M.R.
F.C. NO. 647117, H.C.M.R.

EX. 36" RCP

GALILEO 12.9401 ACRE
LUCILLE L. LEWIS, TRUSTEE
H.C.C.F. NO. RP-2017-572838

24" PVC

STORM

18" GRAVITY MAIN

CONCRETE

GRASS

PROP DS CONN. (REF MEP PLANS) 88 LF @ 1.00% 6"℄=171.90

PROP DS CONN. (REF MEP PLANS) 99 LF @ 1.00% 6"℄=170.92

PROP. 36" STM. 51 LF @ 0.11%

PROP. TY. "C" MH. (A7) W/ GRATE TOP TG=175.00 8"℄=170.61 (SE) 36"℄=167.32 (NE) 36"℄=167.32 (SW)

PROP. 36" STM. 42 LF @ 0.11%

PROP. TY. "C" MH. (A8) W/ GRATE TOP TG=174.35 36"℄=167.27 (NE) 36"℄=167.27 (SW)

PROP. 36" STM. 55 LF @ 0.11%

PROP. 42" STM. 50 LF @ 0.082%

PROP. TY. "C" MH. (A9) W/ GRATE TOP TG=173.85 36"℄=167.21 (NE) 42"℄=167.21 (SW)

PROP. TY. "C" MH. (A10) W/ GRATE TOP TG=173.85 42"℄=167.16 (NE) 42"℄=167.16 (S)

PROP. TY. "C" (MH1) RIM=174.50 8"℄=169.54 (SE) 42"℄=167.12 (N,W)

PROP. 42" STM. 56 LF @ 0.082%

PROP DS CONN. (REF MEP PLANS) 176 LF @ 0.75% 8"℄=171.93

PROP. BLDG FF 177.50

PROP. 42" STM. 12 LF @ 0.082%

PROP. 8"x6" WYE 8"℄=170.30

PROP DS CONN. (REF MEP PLANS) 154 LF @ 0.75% 8"℄=170.71 (S)

6"℄=171.10 (S)

BLOCK 1, LOT 1
BJS MANUFACTURING CENTER REPLAT
F.C. No. 647117, H.C.M.R.

TOMBALL INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. RP-2021-468962

PROP. CB RIM=177.40 8"℄=170.26 (SW)

PROP. 8" STM. 36 LF @ 0.75%

8"℄=170.08 8"℄=170.02

PROP DS CONN. (REF MEP PLANS) 37 LF @ 1.00% 6"℄=170.45

PROP DS CONN. (REF MEP PLANS) 28 LF @ 1.00% 6"℄=170.27

PROP. CB RIM=177.40 6"℄=170.21 (N) 8"℄=169.99 (SW)

PROP. TY "A" INL. (C4.1) TG=177.00 8"℄=169.53 (NW) 15"℄=169.25 (S)

PROP DS CONN. (REF MEP PLANS) 138 LF @ 1.00% 6"℄=172.50

PROP. CB (C1) TG=174.75 6"℄=171.12 (W) 24"℄=169.55 (S)

EX. GRATE INLET TG=174.53 FL 24" RCP (E) 168.28 FL 2'X2' CBC (W) 171.79

EX. GRATE INLET TG=173.24 FL 2'X2' CBC (E) 171.79

20' UTILITY ESMT. F.C. NO. 537089 H.C.M.R.

12" DISTRIBUTION #1

PROP. 24" STM. 181 LF @ 0.18%

35' B.L. F.C. NO. 647117 H.C.M.R.

±99.85' R.O.W.

EX. STM. SWR. MH. TR=176.38 FL 30" RCP (N) 167.57 FL 24" RCP (E) 167.57 FL 36" RCP (S) 166.70 FL 24" RCP (W) 167.49

EX. "C" INLET TR=175.99 FL 2'X2' CBC (E) 170.91 FL 24" RCP (W) 168.86

EX. GRATE INLET TG=172.65 FL 2'X2' CBC (W) 171.08

EX. "C" INLET TR=173.75 FL 24" RCP (E) 167.74 FL 2'X2' CBC (W) 171.10

EX. GRATE INLET TG=173.39 FL 2'X2' CBC (W) 171.19

EX. "C" INLET TR=175.03 FL 2'X2' CBC (E) 171.10 FL 24" RCP (W) 168.39

5/8" I.R. FND W/CAP "LJA ENG"

PROP. 60" STM. 227 LF @ 0.051%

PROP. GENERATOR (BY OTHERS)

PROP. TY. "C" (A11) RIM=175.00 60"℄=166.99 (NE, SW)

PROP DS CONN. (REF MEP PLANS) 114 LF @ 1.00% 6"℄=171.45

PROP DS CONN. (REF MEP PLANS) 3 LF @ 1.00% 6"℄=171.89

6"℄=171.86

PROP DS CONN. (REF MEP PLANS) 96 LF @ 1.00% 6"℄=171.92

PROP DS CONN. (REF MEP PLANS) 49 LF @ 1.00% 6"℄=171.92

PROP DS CONN. (REF MEP PLANS) 140 LF @ 1.00% 6"℄=169.91

PROP DS CONN. (REF MEP PLANS) 123 LF @ 1.00% 6"℄=168.85

PROP. 8" STM. 61 LF @ 0.75%

PROP DS CONN. (REF MEP PLANS) 43 LF @ 0.75% 8"℄=170.03

PROP. CB (C5.1) TG=176.55 6"℄=171.43 (NW) 8"℄=169.71 (E) 15"℄=167.98 (S)

PROP. CB (C2) TG=173.20 24"℄=169.22 (NE) 30"℄=169.22(SW)

PROP. 15" STM. 216 LF @ 0.33%

PROP. 30" STM. 162 LF @ 0.13%

EX. GRATE INLET TG=172.42 FL 24" RCP (E) 167.42 FL 2'X2' CBC (W) 171.42

EX. "C" INLET TR=173.75 FL 24" RCP (E) 167.74 FL 2'X2' CBC (W) 171.10

PROP. 15" STM. 191 LF @ 0.33%

15"℄=167.62

PROP. PORTABLE CLASSROOMS (BY OTHERS)

PROP. TETHER BALL (BY OTHERS)

PROP. BASKETBALL COURT

PROP. 42" STM. 207 LF @ 0.082%

PROP. 36" STM. 173 LF @ 0.11%

PROP. CB (C4) TG=172.90 15"℄=168.54 (N) 30"℄=167.54 (NE) 36"℄=167.54 (W)

PROP. 30" STM. 85 LF @ 0.13%

PROP. TY "A" INL. (C3) TG=173.10 30"℄=169.01 (NE) 30"℄=168.89 (SW)

EX. STM. SWR. MH. (MH4) TG=174.40±ME 60"℄=167.07 (NE) ±ME 60"℄=167.19 (W) ±ME

EX. "E" INLET TR=175.84 FL 60" RCP (N) 167.30 FL 60" RCP (SW) 167.33

EX. TY "E" INL. (C6) CONTRACTOR TO TIE INTO EX. INL. AND REPLACE TY "E" INL. TOP WITH SOLID MH TOP TG=174.25 6"℄=168.51 (N) 42"℄=167.18 (E)

PROP. CB (C5) TG=173.90 15"℄=167.35 (N) 36"℄=167.35 (E) 42"℄=167.35 (W)

EX. STM. SWR. MH. TR=175.13 FL 30" RCP (E) 167.58 FL 30" RCP (S) 167.53

EX. STM. SWR. MH. TR=174.65 FL 30" RCP (E) 167.12 FL 30" RCP (W) 167.08

EX. 60" RCP

EX. 30" RCP

25' B.L. F.C. NO. 647117 H.C.M.R.

EX. 60" ℄ =167.18± (SW)

PROP. TY. "C" (MH3) RIM=174.65 EX. 60" ℄ =166.87±ME (N) 60"℄=166.87 (N)

BASE

UTILITY CROSSINGS:

	STORM ℄	SANITARY ℄	CLEARANCE
B	6"℄=169.21'	8"℄=170.79'	1.08'
C	6"℄=168.97'	6"℄=170.73'	1.26'
D	6"℄=168.67'	6"℄=170.66'	1.49'
E	6"℄=167.73'	8"℄=170.60'	2.37'
F	8"℄=169.97'	6"℄=171.95'	1.31'
G	15"℄=167.62'	6"℄=171.61'	2.36'
H	15"℄=167.40	8"℄=165.41	1.32'
I	15"℄=168.83'	8"℄=164.49'	2.75'
J	6"℄=172.42'	6"℄=171.43'	0.49'
K	6"℄=172.33'	6"℄=171.39'	0.44'
L	24"℄=169.45'	8"℄=168.14'	0.64'
M	30"℄=169.13'	8"℄=163.88'	4.58'
N	36"℄=166.24'	8"℄=161.52'	4.05'

* CLEARANCE LESS THAN ONE FOOT. CONTRACTOR TO CEMENT STABILIZE.

PIPING MATERIAL SCHEDULE

STORM SEWER - SMALLER THAN 12"	SDR-35 PVC PER ASTM D3034
STORM SEWER - 12" OR LARGER (PRIVATE)	DUAL-WALLED HDPE, AASHTO M252 & M294
STORM SEWER - WITHIN PUBLIC EASEMENT OR RIGHT-OF-WAY	RCP, C-76, CLASS III
STORM SEWER - UNDERNEATH BUILDING	SCHEDULE 40 PVC

OVERALL LAYOUT LEGEND:

- PROPOSED STORM SEWER/MANHOLE
- PROPOSED LARGE DIAMETER STORM SEWER/MANHOLE
- PROPOSED STORM SEWER/CURB INLET/ GRATE INLET

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
(New Statewide Number Outside Houston)
1-800-344-8377

KEY MAP (N.T.S.):



BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 160.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
TEMPORARY BENCHMARK 'D' ELEVATION - 177.49'

BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

FLOODPLAIN NOTE:

THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0220L MAP REVISED JUNE 18TH, 2007.

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1"=30'	AH	CT

Date 07/13/2026

Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26
Sara Karouni

Huckabee
www.huckabee-inc.com
800.687.1229

UTILITY PLAN - STORM SEWER (2 OF 2)
VOLUME 01

Job No. 00788-002
Sheet No. C6.2
Drawn By: CT
Date: 07.13.26

S&S

11/18/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_ARCH.rvt

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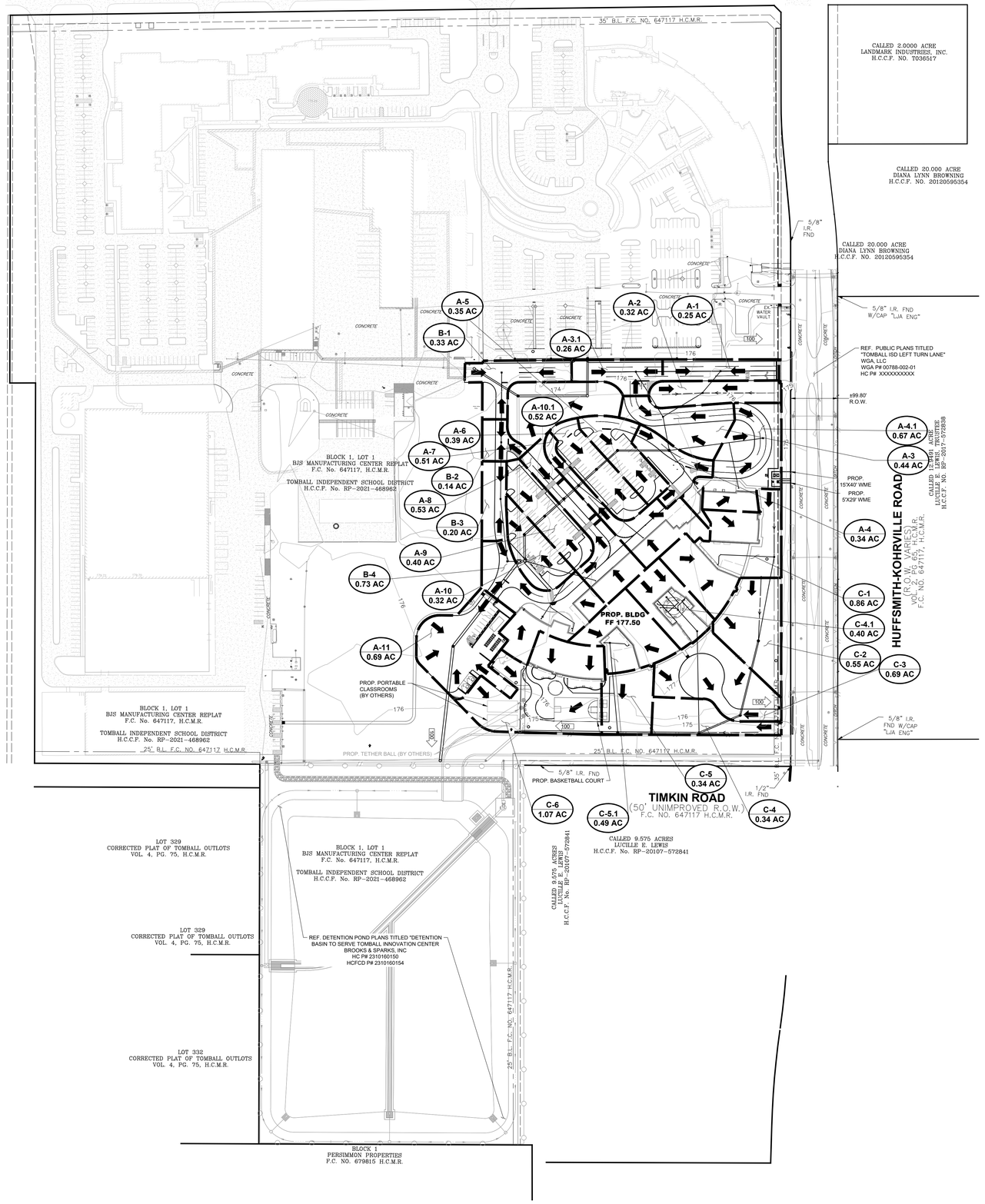

0 100 200

SCALE: 1" = 100'

DRAINAGE AREA MAP LEGEND:

A 1.52 AC	DRAINAGE AREA AREA IN ACRES
	DRAINAGE BOUNDARY
	25-YEAR SHEET FLOW
100	100-YEAR SHEET FLOW
	OFF-SITE SHEET FLOW
130	EXISTING CONTOUR

Date 07/13/2026

Revision / S&S

Project:

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY MAP (N.T.S.):



BENCHMARKS:

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STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
Sara Karouni 7/13/26

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713.789.1900
4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
1"=100'	AH	CT

DRAINAGE AREA MAP

VOLUME 01

Job No.	Sheet No.
00788-002	C7.1
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 5:39:39 AM

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01, Tomball ISD IS Replacement, ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C7.1 Drainage Area Map.dwg Last Plotted: Mon Jul 13, 2026 - 6:54pm By: cteague

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WGA

STORM SEWER CALCULATIONS

Project: Tomball ISD Intermediate School Replacement
Job No: 00788-002
System: A, B & C
By: AH
DATE 7-13-2026
Rainfall Frequency (years): 25

$$I = \frac{b}{(t_c + d)^e}$$

C_f = 1.00
b = 54.97
d = 6.27
e = 0.6446

Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\400 Engineering\403 Drainage\[2026.06.07 Tomball ISD Storm Calcs.x ls]DESIGN (25-year)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
											LINE						DESIGN			HYD. GRAD													
ID	From MH	To MH	Sub Area Acres	Total Area Acres	Sub Runoff Coeff. C	Sub Runoff Coeff. $C'C_f$	Sum of $Cf'C'A$	Time of Conc. min.	Intensity I (in / Hr.)	Sum of Flows cfs Q	Reach Length Feet	Dia. in. or Rise (ft)	# of Pipes/ Boxes	Width of box (ft)	Slope %	Mannings n"	Capacity cfs Q	Velocity fps	drop at down stream manhole	Actual Velocity fps	Hydraulic Gradient %	Change in Head Ft.	Elev. Up Stream	Elev. Down Stream	TG/ Gutter Elevation Upstream	TG/ Gutter Elevation Downstream	MH UP	flowline upstream	MH DOWN	flowline downstream	Top of Pipe (upstream)	Top of Pipe downstream
"A"	1	2	0.25	0.25	0.80	0.80	0.20	16.60	7.31	1.46	60	12	1		0.44	0.012	2.57	3.27	0.00	3.37	0.143	0.086	172.73	172.64	174.20	173.70	1	168.31	2	168.05	169.31	169.05
"A"	2	3	0.32	0.57	0.80	0.80	0.46	16.91	7.25	3.31	98	15	1		0.33	0.012	4.03	3.28	0.00	3.65	0.223	0.219	172.64	172.42	173.70	174.65	2	168.05	3	167.73	169.30	168.98
"A"	3	4	0.44	1.27	0.80	0.80	1.02	17.40	7.15	7.26	73	24	1		0.18	0.012	10.43	3.32	0.00	3.58	0.088	0.064	172.42	172.36	174.65	175.05	3	167.73	4	167.59	169.73	169.59
"A"	4	5	0.34	2.18	0.80	0.80	1.74	17.77	7.08	12.35	110	30	1		0.13	0.012	16.06	3.27	0.00	3.60	0.077	0.085	172.36	172.27	175.05	174.90	4	167.59	5	167.45	170.09	169.95
"A"	5	6	0.35	2.53	0.80	0.80	2.02	18.33	6.97	14.12	60	30	1		0.13	0.012	16.06	3.27	0.00	3.69	0.101	0.061	172.27	172.21	174.90	174.90	5	167.45	6	167.37	169.95	169.87
"A"	6	7	0.39	2.92	0.80	0.80	2.34	18.64	6.92	16.16	51	36	1		0.11	0.012	24.03	3.40	0.00	3.65	0.050	0.026	172.21	172.19	174.90	175.00	6	167.37	7	167.32	170.37	170.32
"A"	7	8	0.51	3.43	0.80	0.80	2.74	18.89	6.88	18.87	42	36	1		0.11	0.012	24.03	3.40	0.00	3.75	0.068	0.029	172.19	172.16	175.00	174.35	7	167.32	8	167.27	170.32	170.27
"A"	8	9	0.53	3.96	0.80	0.80	3.17	19.09	6.84	21.67	55	36	1		0.11	0.012	24.03	3.40	0.00	3.85	0.090	0.049	172.16	172.11	174.35	173.85	8	167.27	9	167.21	170.27	170.21
"A"	9	10	0.40	4.36	0.80	0.80	3.49	19.36	6.79	23.69	58	42	1		0.08	0.012	30.91	3.21	0.00	3.53	0.047	0.027	172.11	172.08	173.85	173.85	9	167.21	10	167.16	170.71	170.66
"A"	10	MH1	0.32	5.20	0.80	0.80	4.16	19.66	6.74	28.05	56	42	1		0.08	0.012	30.91	3.21	0.00	3.63	0.066	0.037	172.08	172.04	173.85	174.50	10	167.16	MH1	167.12	170.66	170.62
"A"	MH1	J-BOX	0.00	5.20	0.80	0.80	4.16	19.95	6.69	28.05	12	42	1		0.08	0.012	30.91	3.21	0.00	3.63	0.066	0.008	172.04	172.04	174.50	174.65	MH1	167.12	J-BOX	167.11	170.62	170.61
"A"	J-BOX	11	0.00	7.12	0.80	0.80	5.70	20.01	6.68	38.07	227	60	1		0.05	0.012	63.89	3.25	0.00	3.38	0.018	0.041	172.04	171.99	174.65	175.25	J-BOX	167.11	11	166.99	172.11	171.99
"A"	11	MH3	0.69	7.81	0.80	0.80	6.25	21.18	6.50	40.61	244	60	1		0.05	0.012	63.89	3.25	0.00	3.43	0.021	0.051	171.92	171.87	175.25	174.40	11	166.99	MH3	166.87	171.99	171.87
																												166.87				
"A"	4.1	4	0.57	0.57	0.80	0.80	0.46	16.60	7.31	3.33	201	18	1		0.26	0.012	5.82	3.29	2.00	3.40	0.086	0.172	171.27	171.09	174.75	175.05	4.1	170.12	4	169.59	171.62	171.09
																												167.59				
"A"	3.1	3	0.26	0.26	0.80	0.80	0.21	11.13	8.72	1.81	111	12	1		0.44	0.012	2.57	3.27	0.00	3.54	0.221	0.245	172.17	171.92	174.85	174.65	3.1	168.21	3	167.73	169.21	168.73
																												167.73				
"B"	1	2	0.33	0.33	0.80	0.80	0.26	11.64	8.56	2.26	148	12	1		0.44	0.012	2.57	3.27	0.00	3.68	0.342	0.507	170.09	169.58	174.50	174.90	1	168.55	2	167.90	169.55	168.90
"B"	2	3	0.14	0.47	0.80	0.80	0.38	12.40	8.33	3.13	120	15	1		0.33	0.012	4.03	3.28	0.00	3.63	0.200	0.240	169.58	169.34	174.90	174.25	2	167.90	3	167.50	169.15	168.75
"B"	3	4	0.20	0.67	0.80	0.80	0.54	13.01	8.16	4.37	133	18	1		0.26	0.012	5.82	3.29	0.00	3.60	0.148	0.197	169.34	169.14	174.25	174.60	3	167.50	4	167.16	169.00	168.66
"B"	4	J-BOX	0.73	1.40	0.80	0.80	1.12	13.68	7.98	8.94	25	24	1		0.18	0.012	10.43	3.32	0.00	3.73	0.133	0.033	169.14	169.11	174.60	174.65	4	167.16	J-BOX	167.11	169.16	169.11
																												167.11				
"A"	10.1	J-BOX	0.52	0.52	0.80	0.80	0.42	14.37	7.81	3.25	393	54	1		0.23	0.012	102.44	6.44	0.99	2.90	0.000	0.001	172.60	172.60	175.30	174.65	10.1	169.00	J-BOX	168.10	173.50	172.60
																												167.11				
"C"	1	2	0.86	0.86	0.80	0.80	0.69	11.01	8.76	6.03	181	24	1		0.18	0.012	10.43	3.32	0.00	3.42	0.060	0.109	172.71	172.60	174.75	174.50	1	169.55	2	169.22	171.55	171.22
"C"	2	3	0.55	1.41	0.80	0.80	1.13	11.91	8.47	9.56	162	30	1		0.13	0.012	16.06	3.27	0.00	3.40	0.046	0.075	171.58	171.51	174.50	173.10	2	169.22	3	169.01	171.72	171.51
"C"	3	4	0.69	2.10	0.80	0.80	1.68	12.74	8.24	13.84	95	30	1		0.13	0.012	16.06	3.27	1.35	3.68	0.097	0.092	171.48	171.39	173.10	172.90	3	169.01	4	168.89	171.51	171.39
"C"	4	5	0.34	2.84	0.80	0.80	2.27	13.22	8.10	18.41	173	36	1		0.11	0.012	24.03	3.40	0.00	3.74	0.065	0.112	171.99	171.88	172.90	173.90	4	167.54	5	167.35	170.54	170.35
"C"	5	6	0.34	3.67	0.80	0.80	2.94	14.07	7.88	23.15	207	42	1		0.08	0.013	28.89	3.00	0.00	3.33	0.053	0.110	170.79	170.68	173.90	174.25	5	167.35	6	167.18	170.85	170.68
"C"	6	MH4	1.07	4.74	0.80	0.80	3.79	15.22	7.61	28.86	96	60	1		0.11	0.013	86.61	4.41	0.00	3.93	0.012	0.012	172.08	172.07	174.25	174.43	6	167.18	MH4	167.07	172.18	172.07
"C"	MH4	MH3	0.00	4.74	0.80	0.80	3.79	15.58	7.53	28.86	96	60	1		0.11	0.013	86.61	4.41	0.00	3.93	0.012	0.012	171.88	171.87	174.43	174.40	MH4	167.07	MH3	166.87	172.07	171.87
																												166.87				
"C"	4.1	4	0.40	0.40	0.80	0.80	0.32	12.40	8.33	2.67	216	15	1		0.33	0.012	4.03	3.28	1.00	3.50	0.145	0.313	172.20	171.88	177.00	172.90	4.1	169.25	4	168.54	170.50	169.79
																												167.54				
"C"	5.1	5	0.49	0.49	0.80	0.80	0.39	12.12	8.41	3.30	191	15	1		0.33	0.012	4.03	3.28	0.00	3.65	0.222	0.424	172.62	172.20	176.55	173.90	5.1	167.98	5	167.35	169.23	168.60
																												167.35				

WGA

STORM SEWER CALCULATIONS

Project: Tomball ISD Intermediate School Replacement
Job No: 00788-002
System: A, B & C
By: AH
DATE 7-13-2026
Rainfall Frequency (years): 100

$$I = \frac{b}{(t_c + d)^e}$$

C_f = 1.00
b = 53.93
d = 4.53
e = 0.5870

Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\400 Engineering\403 Drainage\[2026.06.07 Tomball ISD Storm Calcs.x ls]DESIGN (100-year)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
											LINE						DESIGN			HYD. GRAD													
ID	From MH	To MH	Sub Area Acres	Total Area Acres	Sub Runoff Coeff. C	Sub Runoff Coeff. $C'C_f$	Sum of $Cf'C'A$	Time of Conc. min.	Intensity I (in / Hr.)	Sum of Flows cfs Q	Reach Length Feet	Dia. in. or Rise (ft)	# of Pipes/ Boxes	Width of box (ft)	Slope %	Mannings n"	Capacity cfs Q	Velocity fps	drop at down stream manhole	Actual Velocity fps	Hydraulic Gradient %	Change in Head Ft.	Elev. Up Stream	Elev. Down Stream	TG/ Gutter Elevation Upstream	TG/ Gutter Elevation Downstream	MH UP	flowline upstream	MH DOWN	flowline downstream	Top of Pipe (upstream)	Top of Pipe downstream
"A"	1	2	0.25	0.25	0.80	0.80	0.20	16.60	9.00	1.80	60	12	1		0.44	0.012	2.57	3.27	0.00	3.52	0.217	0.130	173.10	172.97	174.20	173.70	1	168.31	2	168.05	169.31	169.05
"A"	2	3	0.32	0.57	0.80	0.80	0.46	16.91	8.92	4.07	98	15	1		0.33	0.012	4.03	3.28	0.00	3.74	0.338	0.331	172.97	172.64	173.70	174.65	2	168.05	3	167.73	169.30	168.98
"A"	3	4	0.44	1.27	0.80	0.80	1.02	17.40	8.80	8.94	73	24	1		0.18	0.012	10.43	3.32	0.00	3.73	0.133	0.097	172.64	172.55	174.65	175.05	3	167.73	4	167.59	169.73	169.59
"A"	4	5	0.34	2.18	0.80	0.80	1.74	17.77	8.72	15.20	110	30	1		0.13	0.012	16.06	3.27	0.00	3.72	0.117	0.129	172.55	172.42	175.05	174.90	4	167.59	5	167.45	170.09	169.95
"A"	5	6	0.35	2.53	0.80	0.80	2.02	18.33	8.59	17.39	60	30	1		0.13	0.012	16.06	3.27	0.00	3.54	0.153	0.092	172.42	172.32	174.90	174.90	5	167.45	6	167.37	169.95	169.87
"A"	6	7	0.39	2.92	0.80	0.80	2.34	18.64	8.52	19.91	51	36	1		0.11	0.012	24.03	3.40	0.00	3.79	0.076	0.039	172.32	172.29	174.90	175.00	6	167.37	7	167.32	170.37	170.32
"A"	7	8	0.51	3.43	0.80	0.80	2.74	18.89	8.47	23.24	42	36	1		0.11	0.012	24.03	3.40	0.00	3.87	0.103	0.043	172.29	172.24	175.00	174.35	7	167.32	8	167.27	170.32	170.27
"A"	8	9	0.53	3.96	0.80	0.80	3.17	19.09	8.43	26.70	55	36	1		0.11	0.012	24.03	3.40	0.00	3.78	0.137	0.075	172.24	172.17	174.35	173.85	8	167.27	9	167.21	170.27	170.21
"A"	9	10	0.40	4.36	0.80	0.80	3.49	19.36	8.37	29.20	58	42	1		0.08	0.012	30.91	3.21	0.00	3.65	0.072	0.042	172.17	172.13	173.85	173.85	9	167.21	10	167.16	170.71	170.66
"A"	10	MH1	0.32	5.20	0.80	0.80	4.16	19.66	8.31	34.57	56	42	1		0.08	0.012	30.91	3.21	0.00	3.60	0.101	0.056	172.13	172.07	173.85	174.50	10	167.16	MH1	167.12	170.66	170.62
"A"	MH1	J-BOX	0.00	5.20	0.80	0.80	4.16	19.95	8.25	34.57	12	42	1		0.08	0.012	30.91	3.21	0.00	3.60	0.101	0.012	172.07	172.06	174.50	174.65	MH1	167.12	J-BOX	167.11	170.62	170.61
"A"	J-BOX	11	0.00	7.12	0.80	0.80	5.70	20.01	8.24	46.93	227	60	1		0.05	0.012	63.89	3.25	0.00	3.54	0.028	0.063	172.06	171.99	174.65	175.25	J-BOX	167.11	11	166.99	172.11	171.99
"A"	11	MH3	0.69	7.81	0.80	0.80	6.25	21.18	8.02	50.10	244	60	1		0.05	0.012	63.89	3.25	0.00	3.59	0.032	0.077	171.95	171.87	175.25	174.40	11	166.99	MH3	166.87	171.99	171.87
																												166.87				
"A"	4.1	4	0.57	0.57	0.80	0.80	0.46	16.60	9.00	4.10	201	18	1		0.26	0.012	5.82	3.29	2.00	3.55	0.130	0.261	171.36	171.09	174.75	175.05	4.1	170.12	4	169.59	171.62	171.09
																												167.59				
"A"	3.1	3	0.26	0.26	0.80	0.80	0.21	11.13	10.73	2.23	111	12	1		0.44	0.012	2.57	3.27	0.00	3.68	0.334	0.371	172.32	171.95	174.85	174.65	3.1	168.21	3	167.73	169.21	168.73
																												167.73				
"B"	1	2	0.33	0.33	0.80	0.80	0.26	11.64	10.53	2.78	148	12	1		0.44	0.012	2.57	3.27	0.00	3.54	0.518	0.767	170.59	169.82	174.50	174.90	1	168.55	2	167.90	169.55	168.90
"B"	2	3	0.14	0.47	0.80	0.80	0.38	12.40	10.25	3.85	120	15	1		0.33	0.012	4.03	3.28	0.00	3.74	0.303	0.364	169.82	169.46	174.90	174.25	2	167.90	3	167.50	169.15	168.75
"B"	3	4	0.20	0.67	0.80	0.80	0.54	13.01	10.04	5.38	133	18	1		0.26	0.012	5.82	3.29	0.00	3.73	0.223	0.297	169.46	169.16	174.25	174.60	3	167.50	4	167.16	169.00	168.66
"B"	4	J-BOX	0.73	1.40	0.80	0.80	1.12	13.68	9.82	11.00	25	24	1		0.18	0.012	10.43	3.32	0.00	3.75	0.201	0.050	169.16	169.11	174.60	174.65	4	167.16	J-BOX	167.11	169.16	169.11
																												167.11				
"A"	10.1	J-BOX	0.52	0.52	0.80	0.80	0.42	14.37	9.61	4.00	393	54	1		0.23	0.012	102.44	6.44	0.99	3.05	0.000	0.001	172.60	172.60	175.30	174.65	10.1	169.00	J-BOX	168.10	173.50	172.60
																												167.11				
"C"	1	2	0.86	0.86	0.80	0.80	0.69	11.01	10.78	7.41	181	24	1		0.18	0.012	10.43	3.32	0.00	3.60	0.092	0.166	172.77	172.60	174.75	174.50	1	169.55	2	169.22	171.55	171.22
"C"	2	3	0.55	1.41	0.80	0.80	1.13	11.91	10.42	11.76	162	30	1		0.13	0.012	16.06	3.27	0.00	3.56	0.070	0.113	171.62	171.51	174.50	173.10	2	169.22	3	169.01	171.72	171.51
"C"	3	4	0.69	2.10	0.80	0.80	1.68	12.74	10.13	17.02	95	30	1		0.13	0.012	16.06	3.27	1.35	3.70	0.147	0.139	171.52	171.39	173.10	172.90	3	169.01	4	168.89	171.51	171.39
"C"	4	5	0.34	2.84	0.80	0.80	2.27	13.22	9.97	22.64	173	36	1		0.11	0.012	24.03	3.40	0.00	3.86	0.098	0.170	172.06	171.89	172.90	173.90	4	167.54	5	167.35	170.54	170.35
"C"	5	6	0.34	3.67	0.80	0.80	2.94	14.07	9.70	28.47	207	42	1		0.08	0.013	28.89	3.00	0.00	3.42	0.080	0.166	170.84	170.68	173.90	174.25	5	167.35	6	167.18	170.85	170.68
"C"	6	MH4	1.07	4.74	0.80	0.80	3.79	15.22	9.36	35.50	96	60	1		0.11	0.013	86.61	4.41	0.00	4.17	0.019	0.018	172.09	172.07	174.25	174.43	6	167.18	MH4	167.07	172.18	172.07
"C"	MH4	MH3	0.00	4.74	0.80	0.80	3.79	15.58	9.26	35.50	96	60	1		0.11	0.013	86.61	4.41	0.00	4.17	0.019	0.018	171.89	171.87	174.43	174.40	MH4	167.07	MH3	166.87	172.07	171.87
																												166.87				
"C"	4.1	4	0.40	0.40	0.80	0.80	0.32	12.40	10.25	3.28	216	15	1		0.33	0.012	4.03	3.28	1.00	3.65	0.220	0.474	172.36	171.89	177.00	172.90	4.1	169.25	4	168.54	170.50	169.79
																												167.54				
"C"	5.1	5	0.49	0.49	0.80	0.80	0.39	12.12	10.35	4.06	191	15	1		0.33	0.012	4.03	3.28	0.00	3.74	0.336	0.642	173.00	172.36	176.55	173.90	5.1	167.98	5	167.35	169.23	168.60
																												167.35				

DETENTION SUMMARY

TOTAL AREA	=	70.05 AC
DETENTION RATE REQUIRED	=	0.75 AC-FT / AC
DETENTION VOLUME REQUIRED	=	52.54 AC-FT
EXISTING DETENTION VOLUME	=	63.51 AC-FT

*NO DETENTION REQUIRED FOR TOMBALL ISD SCHOOL REPLACEMENT. REFERENCE HC PROJECT NO. 2310160150 FOR DETENTION BASIN PLANS AND CITY OF TOMBALL PERMIT NUMBER SP-23-028.

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26
Sara Karouni

Huckabee
www.huckabee-inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120
Houston, Texas 77063
713.789.1900
4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

DRAINAGE CALCULATIONS
VOLUME 01

Job No. 00788-002
Drawn By: CT
Date: 07.13.26
Sheet No. C7.2

S&S

11/18/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C7.2 Drainage Area Calculations.dwg Last Plotted: Mon Jul 13, 2026 – 6:53pm By: ctaegue

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DETENTION SUMMARY

1.	TOTAL AREA OF SITE	70.05 ACRES
2.	DETENTION STORAGE RATE	0.75 AC.FT./AC.
3.	DETENTION STORAGE VOLUME REQUIRED	52.54 AC.FT.
4.	100-YR DESIGN WATER SURFACE ELEVATION=	173.50 FT.
5.	TOTAL STORAGE VOLUME PROVIDED WATER SURFACE ELEVATION 172.50 =	63.51 AC.FT.
6.	MAXIMUM OUTFALL RATE ALLOWED	7 CFS
7.	PROP. RESTRICTOR SIZE	24 INCHES
8.	TOTAL OUTFALL RATE =	7 CFS
9.	DISCHARGE FLOW RATE =	

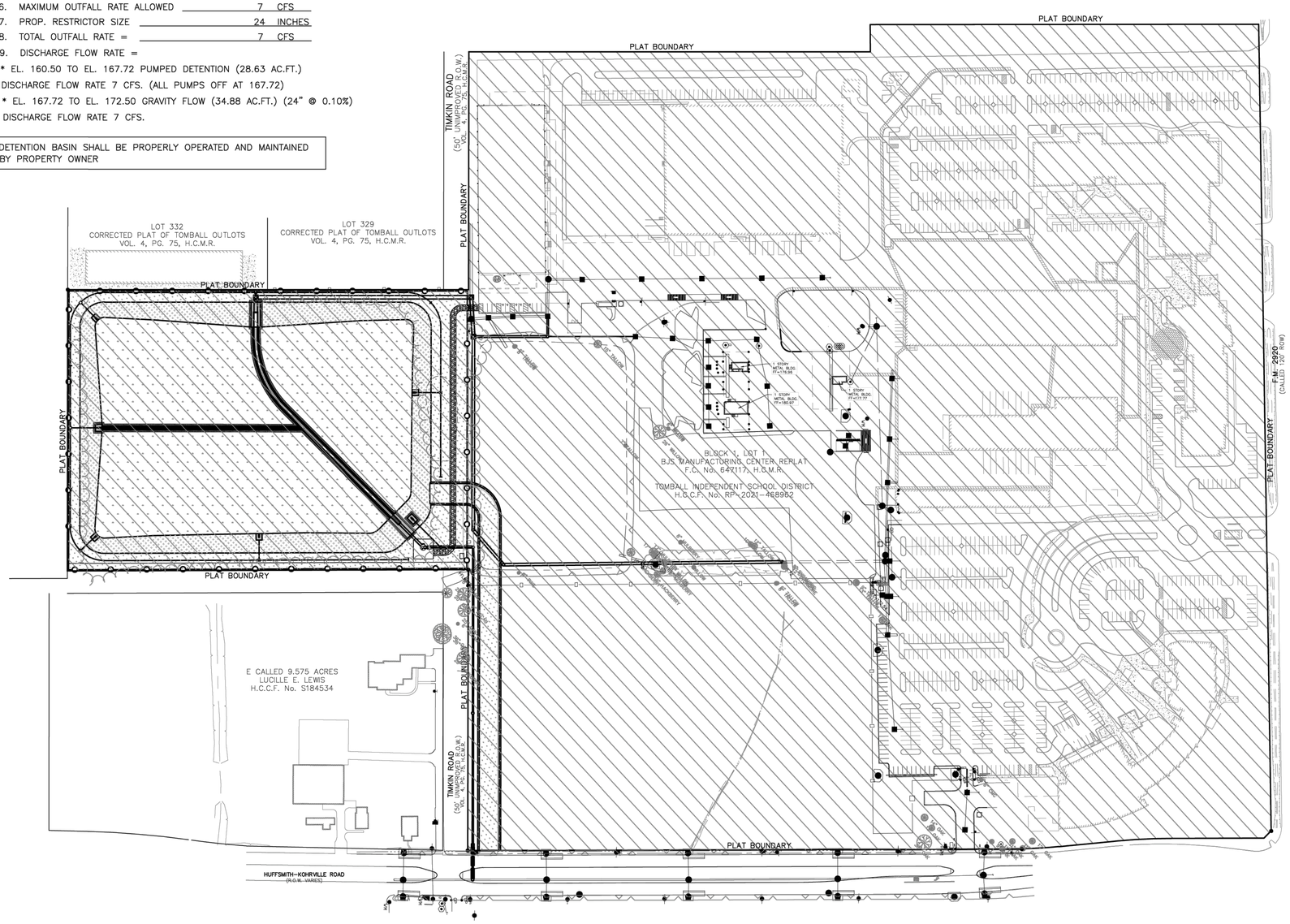
* EL. 160.50 TO EL. 167.72 PUMPED DETENTION (28.63 AC.FT.)
DISCHARGE FLOW RATE 7 CFS. (ALL PUMPS OFF AT 167.72)
* EL. 167.72 TO EL. 172.50 GRAVITY FLOW (34.88 AC.FT.) (24" @ 0.10%)
DISCHARGE FLOW RATE 7 CFS.

DETENTION BASIN SHALL BE PROPERLY OPERATED AND MAINTAINED BY PROPERTY OWNER

LEGEND:

SERVICE AREA (70.05 AC)

SCALE: 1" = 100'



UTILITY ONE CALL

CONTRACTOR TO CALL BEFORE DIGGING !!!!
PHONE: 811

Texas 811

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
21020 PARK ROW PHONE: (281) 578-9595
KATY, TX 77449 FAX: (281) 578-9686

GENERAL NOTES:

1. This survey was prepared without the benefit of a current Commitment for Title Insurance or Abstractor's Certificate and therefore easements or encumbrances may exist which are not shown hereon. No research of the Public Records of Harris County, Texas regarding these easements or encumbrances was performed by Quiddity Engineering.
2. This survey does not provide any determination concerning wetlands, fault lines, toxic waste or any other environmental issues. Such matters should be directed by the client or prospective purchaser to an expert consultant.
3. According to Map No. 48201C0230L of the Federal Emergency Management Agency's Flood Insurance Rate Maps for Harris County, Texas and Incorporated Areas, dated June 18, 2007, the subject tract is situated within: Unshaded Zone X defined as areas determined to be outside the 0.2% annual chance floodplain (500-year flood).

   This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.
4. Research for Adjoiner Tracts was performed by Quiddity Engineering on June 1, 2022.
5. The surveyor has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown hereon.
6. Elevations shown hereon are based on Harris County Floodplain Reference Mark No. 120170 located along the northeast right-of-way of FM 2920 approximately 110 feet from its intersection with Stuebner Airline Road with a published elevation of 154.74 feet, NAVD 88, 2001 Adjustment.
7. Temporary Benchmark A being a 100D nail set in concrete at the northwest corner of the subject tract and further shown hereon.
   Elevation = 177.70 feet, NAVD 88, 2001 Adjustment.
8. Temporary Benchmark B being a MAG nail and shiner set in a wheelchair ramp at the southwest corner of the intersection of FM 2920 and Hufsmith-Kohrville Road and further shown hereon.
   Elevation = 177.95 feet, NAVD 88, 2001 Adjustment.
9. Temporary Benchmark C being a MAG nail set at the bullnose of a median along the centerline of Hufsmith-Kohrville Road and further shown hereon.
   Elevation = 174.29 feet, NAVD 88, 2001 Adjustment.
10. Temporary Benchmark D being a 100D nail set in concrete at the southwest corner of the subject tract and further shown hereon.
    Elevation = 175.67 feet, NAVD 88, 2001 Adjustment.
11. Visible improvements/utilities were located with this survey; no subsurface probing, excavation or exploration was performed for this survey.

NOTE: THE LOCATIONS OF THE PRIVATE UTILITY LINES ARE SHOWN IN AN APPROXIMATE WAY ONLY.THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE ALSO ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Date:

CenterPoint Energy/Natural Gas Facilities Verification ONLY. (This Signature verifies that you have shown CNP Natural Gas lines correctly. Not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.

Date:

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies that existing underground facilities. Not to be used for conflict verification.) Signature Valid for six months.

Date:

APPROVED FOR AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES ONLY. Signature valid for one year.

BROOKS & SPARKS, INC.
F-880

STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
01/04/2024

TOMBALL INDEPENDENT SCHOOL DISTRICT
PLANS FOR
DETENTION BASIN
TO SERVE
TOMBALL INNOVATION CENTER

SERVICE AREA MAP

NO.	DATE	REVISIONS	BY

DRAWN BY: RV	CHECKED BY: CSM, JAE
DESIGNED BY: CSM	APPROVED BY: FEB
PROJECT NO. 866-0018	DATE: 01/04/2024
SCALE: 1"=100'	SHEET 15 OF 39

Date: 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOR REFERENCE ONLY

Huckabee
www.huckabee-inc.com
800.687.1229

DRAINAGE SERVICE AREA MAP
VOLUME 01

Job No. 00788-002	Sheet No. C7.3
Drawn By: CT	
Date: 07.15.26	

S&S

04 Jan 2024 12:05PM RobertV
\\hou-srv05\cadd\project\BROOK_SP\tomball isd\8660020-02-tic detention and pump station\Civil\8660020-SAM.dwg
Includes Xref(s): 866020-X-POND.dwg; 866020-X- BRD.dwg; 866020-X-SEAL.dwg; 866020-X-TEXT.dwg; 866020-X-

11/19/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/000002-34-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C7.3 Drainage Service Area Map (For Reference Only).dwg Last Plotted: Wed Jul 15, 2026 - 9:56am By: dhuerta

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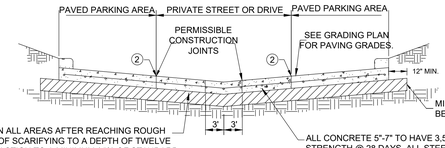


SUBGRADE PREPARATION IN ALL AREAS AFTER REACHING ROUGH GRADE SHOULD CONSISTS OF SCARIFYING TO A DEPTH OF TWELVE (12) INCHES, THEN RECOMPACTION TO A MINIMUM 95% OF STANDARD PROCTOR DENSITY AS DETERMINED BY THE ASTM D-698 PROCEDURE, AT OPTIMUM MOISTURE CONTENT (0 TO ±2%)

IF WET CONDITIONS EXISTS AT TIME OF CONSTRUCTION, AND STABILIZATION IS REQUIRED, IT SHOULD BE PERFOMED USING LIME-FLY ASH STABILIZATION .

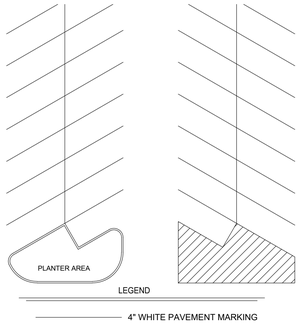
IT IS RECOMMENDED THAT THE UPPER 6-8 INCHES OF SUBGRADE BE CHEMICALLY TREATED WITH LIME OR MIXTURE OF LIME-FLYASH.

1. REINFORCING STEEL: 5" THICK CONCRETE PAVEMENT TO HAVE #3 BARS SPACED AT 18" INTERVALS OR #4 BARS SPACED AT 24 INCHES ON CENTERS IN BOTH DIRECTIONS.
   6" THICK CONCRETE PAVEMENT TO HAVE #3 BARS SPACED AT 12" INTERVALS OR #4 BARS SPACED AT 18 INCHES ON CENTERS IN BOTH DIRECTIONS.
   7" THICK CONCRETE PAVEMENT TO HAVE #4 BARS SPACED AT 18" ON CENTERS IN BOTH DIRECTIONS
2. *CONTROL JOINT SPACING: 5" PAVING MAXIMUM OF 12.5'
   6" & 7" PAVING MAXIMUM OF 15'
3. EXPANSION JOINT: PLACED WHERE PAVEMENT ABUTS ANY STRUCTURE AND TO BE SPACED AT A MAXIMUM OF 60 FEET IN ANY DIRECTION
4. DOWELS AT EXPANSION JOINTS: ⅝ DIAMETER, 12" IN LENGTH, SPACED AT 12" CENTERS AT EACH JOINT, AND BE EMBEDDED AT LEAST 5"
   ⅝ DIAMETER, 14" IN LENGTH, SPACED AT 12" CENTERS AT EACH JOINT, AND BE EMBEDDED AT LEAST 6"
   ⅞ DIAMETER, 14" IN LENGTH, SPACED AT 12" CENTERS AT EACH JOINT, AND BE EMBEDDED AT LEAST 6"

*CONTROL JOINTS CUT WITHIN 6-12 HOURS OF CONCRETE PLACEMENT

TYPICAL CONCRETE PAVEMENT SECTION
N.T.S.

SEE GEOTECHNICAL ENGINEERING REPORT BY TERRACON (PROJECT No. 92245559, DATED MAY 4, 2026)

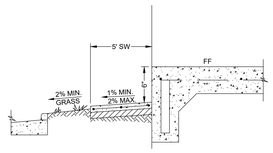


PAVEMENT MARKINGS NOTES:
FURNISH AND INSTALL PAVEMENT MARKINGS OF THE TYPE AND SIZE SHOWN ON THE PLANS AND AS REQUIRED FOR COMPLIANCE WITH GOVERNING CODES. IF NO GOVERNING CODES APPLY, THEN USE TXDOT STANDARDS.

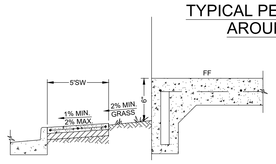
EXECUTION:

1. MINIMUM LINE WIDTH IS 4 INCHES. PAVEMENT MARKINGS MUST COMPLY WITH LOCAL FIRE STANDARDS AND CURRENT ACCESSIBILITY CODE.
2. A MINIMUM OF TWO COATS SHALL BE REQUIRED. WAIT 30 DAYS AFTER PAVEMENT INSTALLATION BEFORE APPLYING THE SECOND COAT OF PAVEMENT MARKINGS.
3. CLOSE AREAS TO TRAFFIC FOR DURATION OF DRYING TIME, WHICH SHALL BE NO LESS THAN THE MINIMUM RECOMMENDED BY THE PAINT MANUFACTURER.
4. TRAFFIC PAINT SHALL BE AS FOLLOWS OR APPROVED EQUAL:
   - CONCRETE- SHERWIN WILLIAMS, SETFAST ACRYLIC ZONE MARKING PAINT
   - CONCRETE & BLUE HANDICAP BACKGROUNDS- SHERWIN WILLIAMS, SETFAST CHLORINATED RUBBER ZONE MARKING PAINT
   - NEW ASPHALT- SHERWIN WILLIAMS, SETFAST, ACRYLIC LATEX TRAFFIC MARKING PAINT
   - OLD ASPHALT- SHERWIN WILLIAMS, SETFAST ACRYLIC WB TRAFFIC MARKING PAINT

PAVEMENT MARKING DETAIL
N.T.S



TYPICAL PERIMITER GRADES AROUND BUILDING
N.T.S.



TYPICAL PERIMITER GRADES AROUND BUILDING
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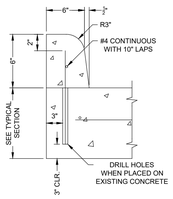
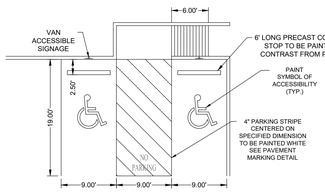
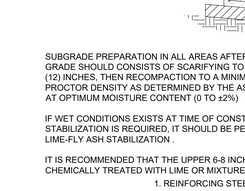


TYPICAL 6" CONCRETE CURB REINFORCING
N.T.S.

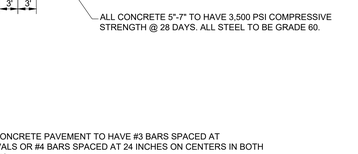


TYP - ACCESSIBLE PARKING SPACE
N.T.S.



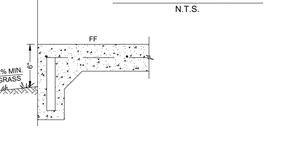
NOTES:
T = PAVEMENT THICKNESS

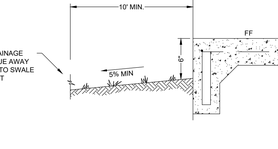
CONCRETE TO CONCRETE STANDARD PAVEMENT TIE IN
N.T.S.



NOTES:
T = PAVEMENT THICKNESS
#1, #4, EXPANSION JOINT SPACING & THICKNESS REFERENCE "TYPICAL CONCRETE PAVEMENT SECTION" FOR DETAILS

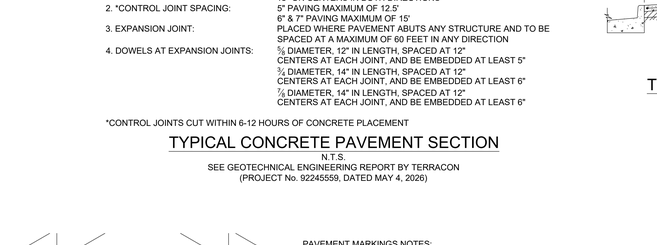
EXPANSION JOINT
N.T.S.





NOTE:
1. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9", A HEIGHT OF NOMINAL 0.2" AND A CENTER TO CENTER SPACING OF NOMINAL 2.35" AND SHALL CONTRAST VISUALL WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
2. THE SURFACE OF A WHEEL CHAIR RAMP IS BE GROVED LATERALLY WITH ¼" WIDE BY ¼" DEEP GROOVES, SPACED 2-1/4" C-C, AND ROUGHENED NO LESS THAN A BROOM FINISH TO PREVENT SLIPPING, AND TO DIFFERENTIATE TEXTURE FROM THAT OF STANDARD SIDEWALK.

CONCRETE PEDESTRIAN RAMP
N.T.S.

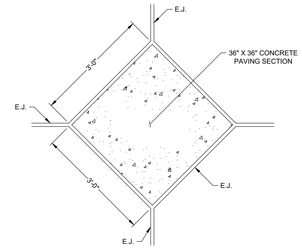


CONCRETE SIDEWALK

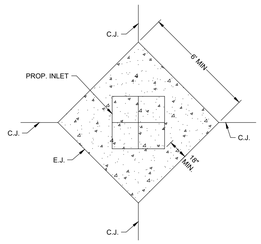
NOTE:
1) BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATTER, MEETING THE UNIFIED SOILS CLASSIFICATION SYSTEM GROUP SYMBOL SW CRITERIA W/ A PLASTICITY INDEX OF ≤ 10, AND NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.
2) DOWEL IN AND TIE TO ANY CONCRETE STRUCTURE ADJACENT TO SIDEWALK (DRIVEWAY, INLET BOX, CURB, JUNCTION BOX, ETC.) WITH #3x12" BARS @ 18" O.C. INCLUDE EXPANSION JOINT AT CONNECTION WITH BACK OF CURB.

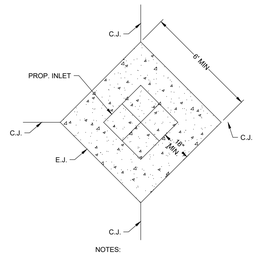
NOT TO SCALE

CITY OF TOMBALL ENGINEERING & PLANNING DEPARTMENT	
CONCRETE SIDEWALK CONSTRUCTION DETAILS	
APPROVED BY COT: ENGINEERING & PLANNING DEPARTMENT EFFECTIVE NOVEMBER 19, 2018	
SHEET 001 OF 001	DWG NO. COT SW-03

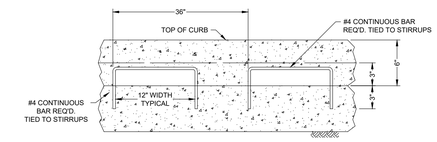


PAVING EXPANSION JOINT INTERSECTION
N.T.S.

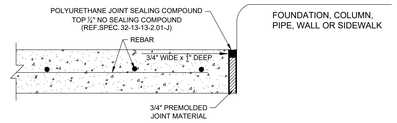




TYPICAL PERIMITER GRADES AROUND BUILDING
N.T.S.



TYPICAL 6" CONCRETE CURB REINFORCING
N.T.S.



STANDARD ISOLATION JOINT
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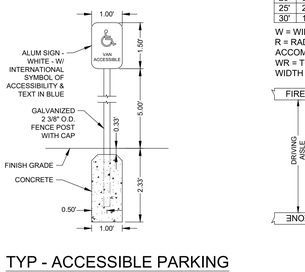


TYP - ACCESSIBLE PARKING SIGNAGE
N.T.S.

W	R	WR
20'	30'	30' MIN.
25'	20'	30' MIN.
30'	10'	30' MIN.

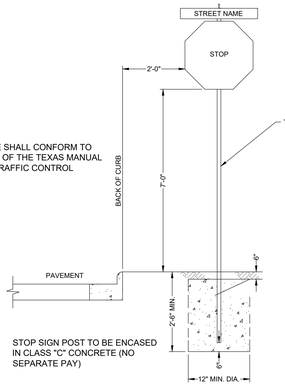
W = WIDTH (FEET) OF FIRE LANE
R = RADIUS NECESSARY TO ACCOMMODATE FIRE VEHICLES
WR = TURNING RADIUS PAVEMENT WIDTH



FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PAINTED LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW TH EBOUNDARIES OF THE LANE. THE WORDS LETTERED FIRE LANE - NO - PARKING - TOW AWAY ZONE" SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. WHERE CURB IS AVAILABLE, THE STRIPING SHALL BE ON THE VERTICAL FACE OF THE CURB. THE WORD LETTERING SHALL BE SPACED NOT MORE THAN FIFTY FEET (50') APART.

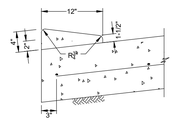
FIRE STRIPING DETAIL

NOTE:
TRAFFIC SIGNAGE SHALL CONFORM TO THE SATNDARD OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

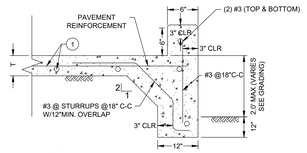


STOP SIGN POST TO BE ENCASED IN CLASS "C" CONCRETE (NO SEPARATE PAY)

TRAFFIC SIGNAGE DETAIL
N.T.S.



TYPICAL ROLL DOWN DETAIL 4"X12" CURB
N.T.S

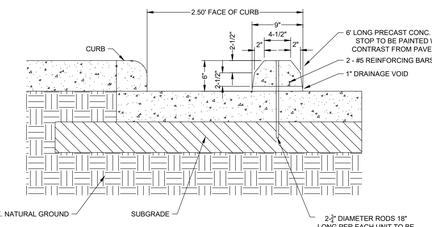


NOTES:
T = PAVEMENT THICKNESS
#1, SAWCUT SPACING, & THICKNESS REFERENCE : "TYPICAL CONCRETE PAVEMENT SECTION" FOR DETAILS

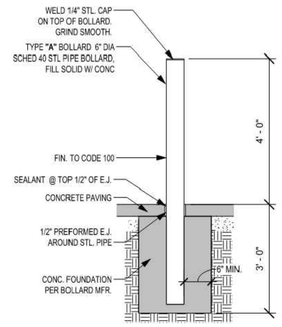
TYPICAL CURB WITH TURNDOWN
N.T.S.

PAVER NOTES:

1) CONSTRUCT PAVERS/TERRAZZO PAVING AS SHOWN ON THIS SHEET.
2) PAVESTONE AND TERRAZZO PAVING SHALL COMPLY WITH SPECIFICATIONS OF THE MANUFACTURER.
3) THIS BLOCKOUT DIMENSION FOR PAVERS/TERRAZZO IS NOMINAL. THE CONTRACTOR MAY ADJUST BLOCKOUT AS NEEDED TO MINIMIZE THE AMOUNT OF PAVERS/TERRAZZO TO BE CUT. HOWEVER, THE PAVERS MUST ALWAYS BE HELD ONE FOOT AWAY FROM FACE OF CURB AT THE DRIVEWAY.



WHEEL STOP DETAIL
N.T.S.



BOLLARD DETAIL MISC.
N.T.S.

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED PROFESSIONAL ENGINEER
7/13/26
Sara Karouni

Huckabee
www.huckabee-inc.com
800.687.1229

PAVING DETAILS (1 OF 3)
VOLUME 01

Job No.	Sheet No.
00788-002	C8.1
Drawn By: CT	
Date: 07.13.26	

S&S

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Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C8.1 Paving Details.dwg Last Plotted: Mon Jul 13, 2026 – 6:56pm By: ctaogue

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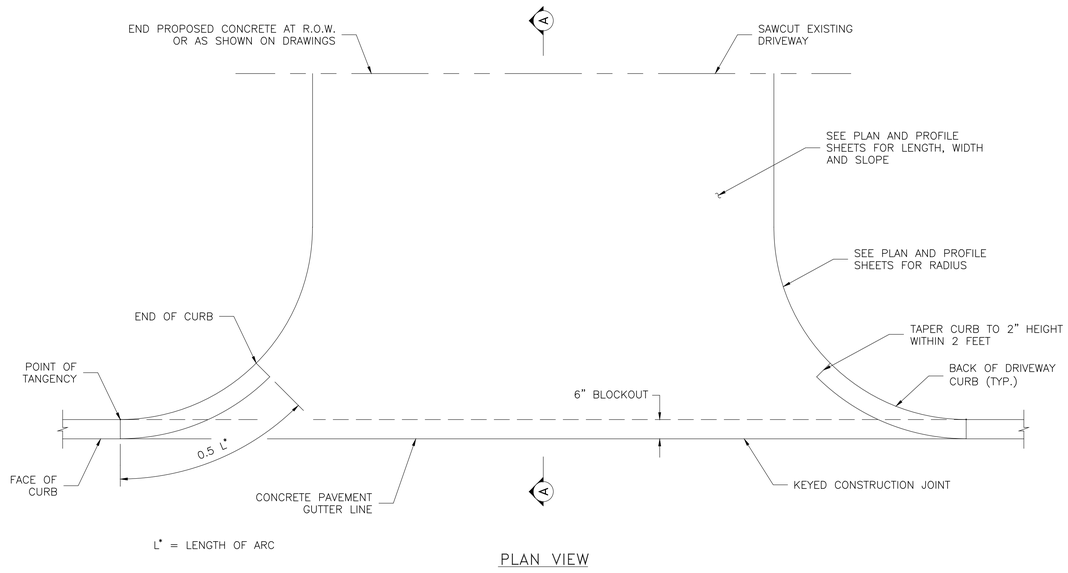
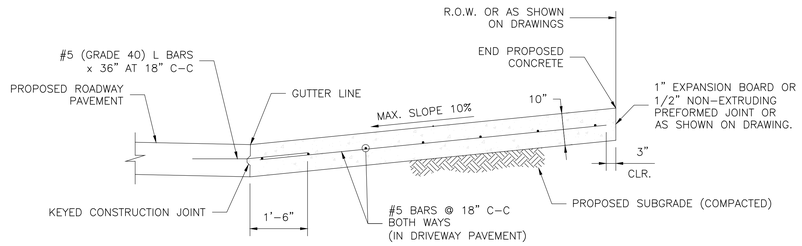


L* = LENGTH OF ARC

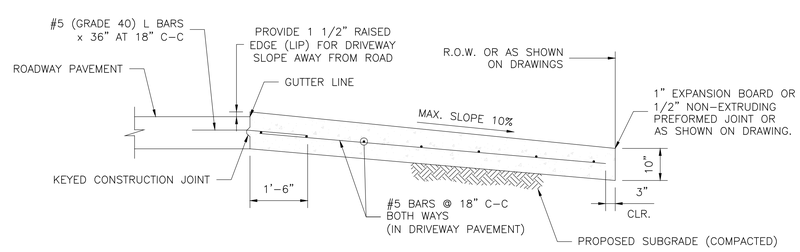
PLAN VIEW

NOTES:

1. SAWCUT EXISTING DRIVEWAY AT R.O.W. LINE OR AS SHOWN ON DRAWING AND REMOVE EXISTING DRIVEWAY TO SAWCUT LINE.
2. IF THERE IS EXISTING CURB ON DRIVEWAY, CONNECT PROPOSED CURB TO EXISTING CURB; OTHERWISE TAPER CURB HEIGHT AS SHOWN.
3. SEE PAVEMENT DETAIL SHEET FOR CONCRETE CURB REINFORCEMENT.
4. THIS DRIVEWAY INSTALLATION IS GOVERNED BY ITEM 360.



SECTION A-A
(DRIVEWAY SLOPES TO ROADWAY)



SECTION A-A
(DRIVEWAY SLOPES AWAY FROM ROADWAY)

NO.	REVISIONS	DATE	NAME
1			
2			
3			
4			
5			

HARRIS COUNTY ENGINEERING DEPARTMENT

PROJECT TITLE:

SHEET DESCRIPTION: MAJOR ROADWAY CONSTRUCTION

DRIVEWAY DETAILS

DRAWN BY:	CK'D BY:	SCALE:
JDZ	PDG	1" = 1'-6"

CIVIL STANDARD: MRCD

DATE: 8/15/17

SHEET NO: 7

Date: 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26

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2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

PAVING DETAILS (2 OF 3)

VOLUME 01

Job No.	Sheet No.
00788-002	C8.2
Drawn By: CT	
Date: 07.13.26	

S&S

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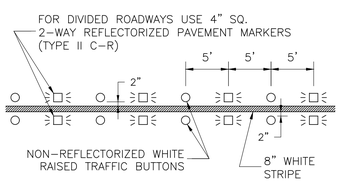
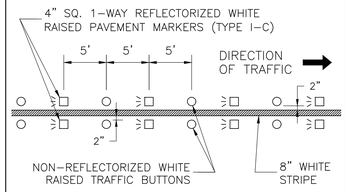
DETAIL "A"
(FOR DIVIDED ROADWAYS)



DETAIL "B"
(FOR UNDIVIDED ROADWAYS)



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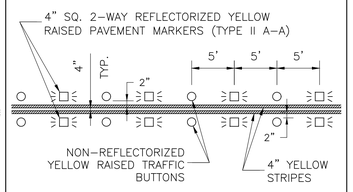
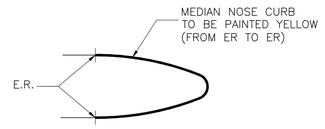
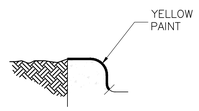


DETAIL "D"

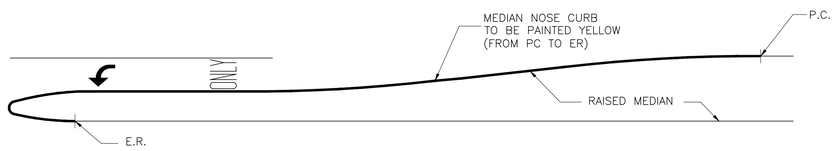
* PAINT FROM THE BACK OF CURB TO THE GUTTER LINE



TYPICAL MEDIAN NOSE



TYPICAL CURB SECTION



RAISED MEDIAN WITH TURN BAY

PAVEMENT MARKER LEGEND

SYMBOL	DESCRIPTION
≥□≤	4" x 4" REFLECTORIZED RAISED PAVEMENT MARKER
□≤	INDICATED DIRECTION OF TRAFFIC FLOW
○	NON-REFLECTIVE 4" DIA. RAISED TRAFFIC BUTTON

RADIUS DIMENSIONS

MEDIAN	*R1	*R2
≤10'	N/A	W/2
>10' ≤40'	90'	W/5
>40'	N/A	N/A

TABLE 1

TYPICAL MEDIAN OPENING "C"

MEDIAN INTERRUPTION	(1) NO LTB	(1) 1 LTB	(1) 2 LTB
PRIVATE DRIVE	45'	52.5'	60'
UNDIVIDED STREET <40'	45'	52.5' (2)	60'
UNDIVIDED STREET 44'	50'	55' (2)	60'
DIVIDED STREET	D+22'	D+22'	D+22'

NOTES:

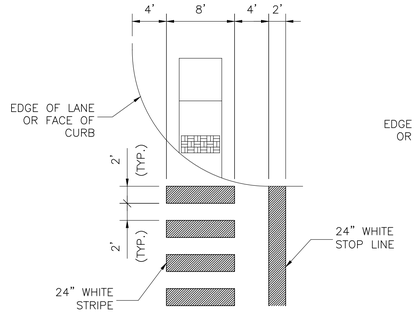
(1) LTB = LEFT TURN BAY

(2) DISTANCE FROM CENTERLINE OF OPENING TO MEDIAN NOSE WITH LEFT TURN LANE IS 30' FOR RIGHT ANGLE INTERSECTIONS, FOR INTERSECTIONS OTHER THAN 90°, APPLY DESIGN VEHICLE TURNING TEMPLATE TO DETERMINE DIMENSION TO MEDIAN NOSE CUT OFF.

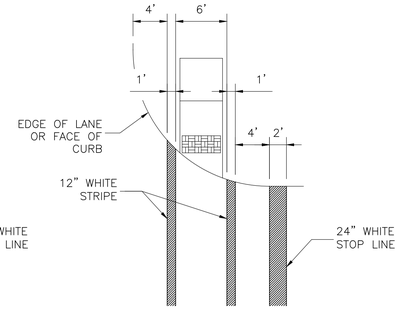
(3) D = WIDTH OF DIVIDED STREET

TYPICAL CROSSWALK PLACEMENT

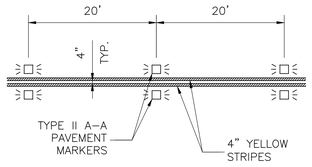
CONTINENTAL TYPE



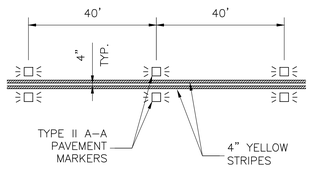
STANDARD TYPE



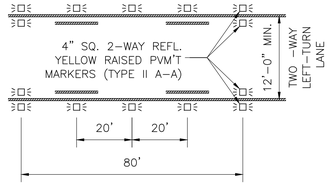
CENTER LINE DETAIL CURVE SECTION



CENTER LINE DETAIL TANGENT SECTION



TWO-WAY LEFT TURN CURVE SECTION



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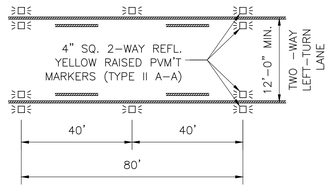
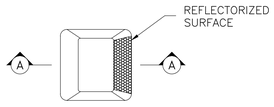
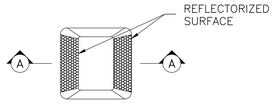


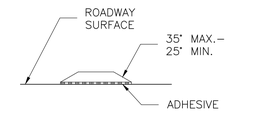
RAISED PAVEMENT MARKERS



TYPE I (TOP VIEW)



TYPE II (TOP VIEW)



SECTION A-A

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY
ENGINEERING DEPARTMENT

PROJECT TITLE:

SHEET DESCRIPTION: PAVEMENT MARKING DETAILS (2 OF 2)

TRAFFIC STANDARD: PM

DRAWN BY: JDZ | DATE: 12/14/17

CK'D BY: BSH | SCALE: NONE | SHEET NO: 7

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26

Huckabee
www.huckabee-inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

PAVING DETAILS (3 OF 3)

VOLUME 01

Job No.	Sheet No.
00788-002	C8.3
Drawn By: CT	
Date: 07.13.26	

S&S

Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C8.1 Paving Details.dwg

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Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01, Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C8.1 Paving Details.dwg Last Plotted: Mon Jul 13, 2026 – 6:54pm By: ctsague

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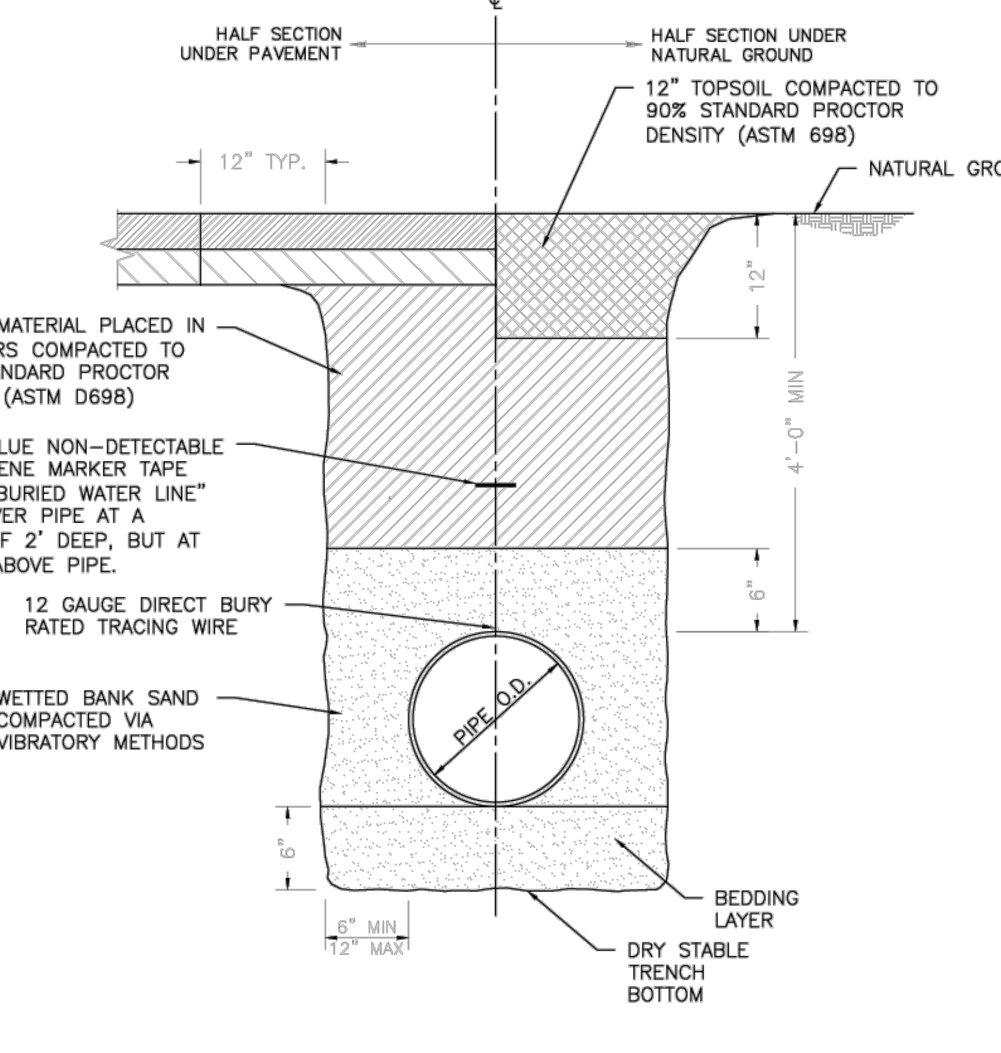


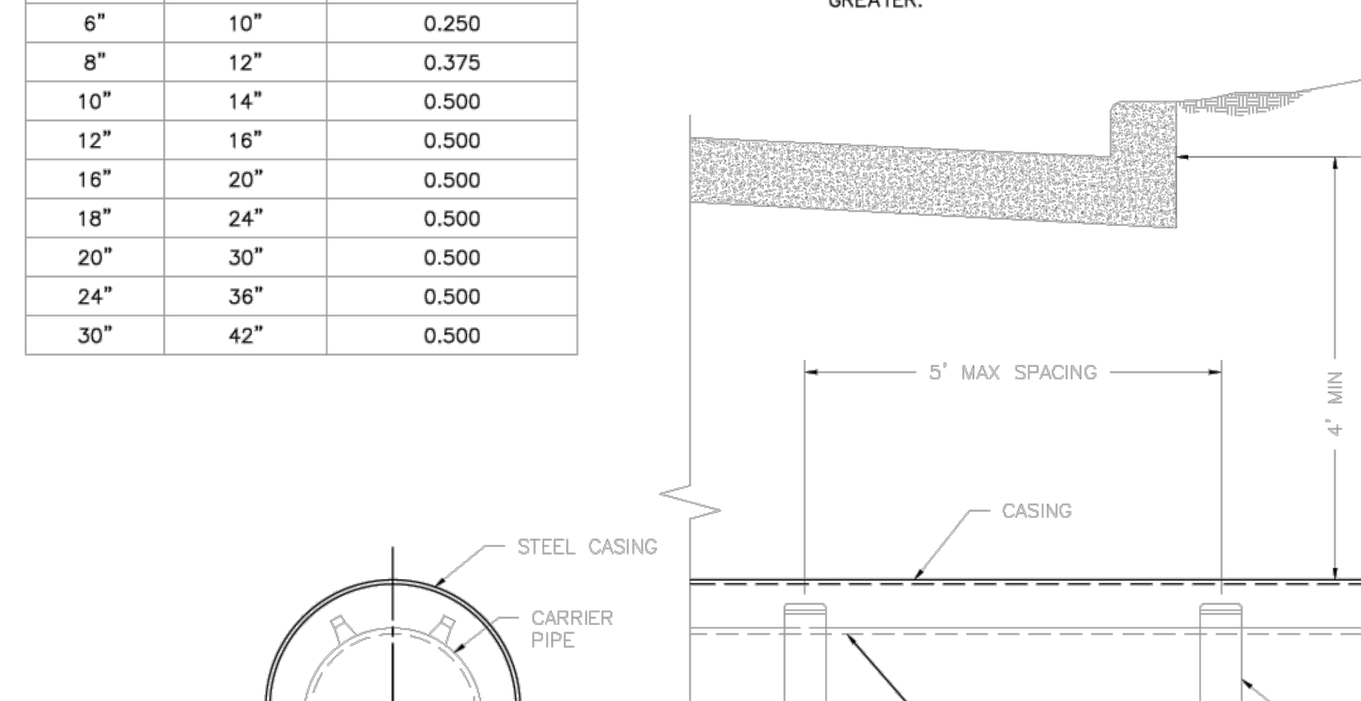
1 PVC WATER TYPICAL TRENCH DETAIL
NOT TO SCALE

NOTES:

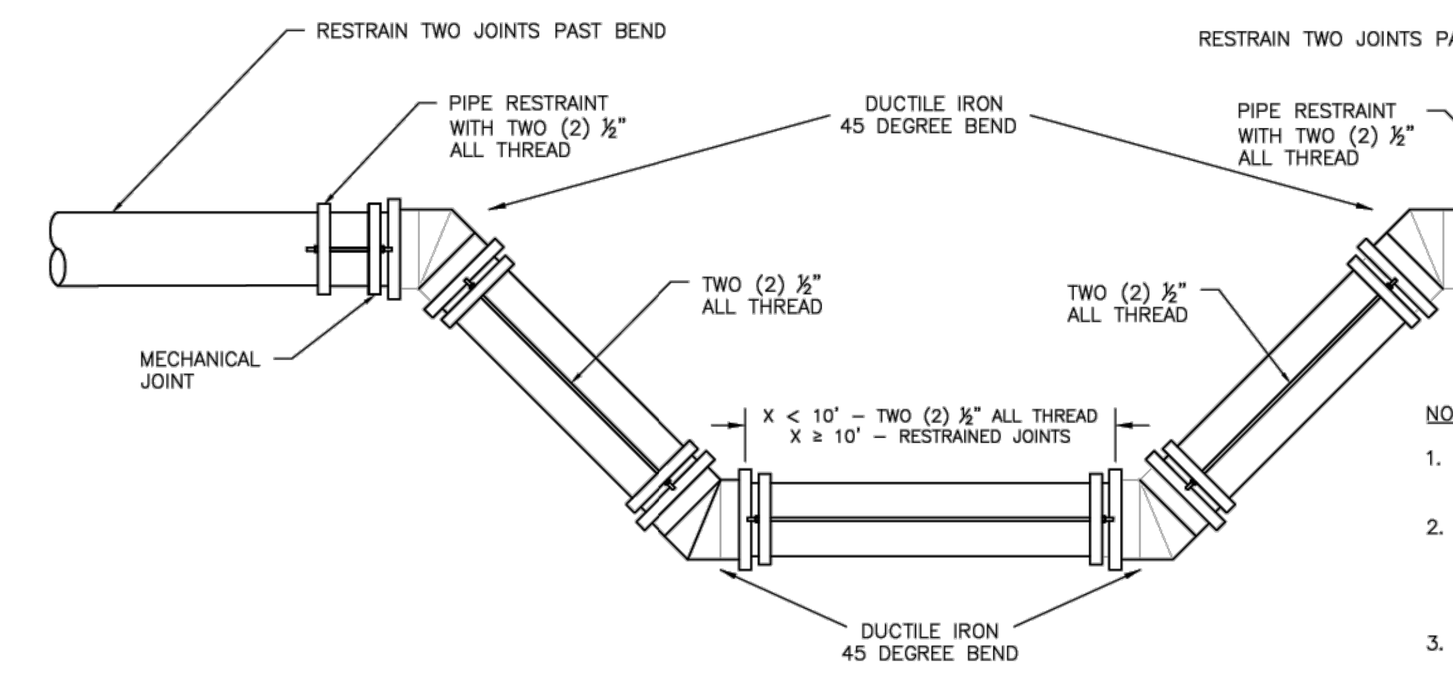
1. CASING SIZE AND THICKNESS SHALL CONFORM TO THE MINIMUM REQUIREMENTS AS SHOWN ON SCHEDULE OF CASING, OTHER PERMITS AS REQUIRED.
2. LENGTH OF ENCASEMENT SHALL BE AS SHOWN ON THE PLAN AND PROFILE DRAWING. ENCASEMENT TO EXTEND MINIMUM OF 5' FROM EDGE OF PAVEMENT.
3. CASING MATERIAL SHALL BE STEEL OR HDPE DR 11 FOR THOROUGHFARES CLASSIFIED AS COLLECTORS AND GREATER.

SCHEDULE OF STEEL CASING

CARRIER PIPE	NOMINAL CASING	MIN. WALL THICKNESS (IN.)
6"	10"	0.250
8"	12"	0.375
10"	14"	0.500
12"	16"	0.500
16"	20"	0.500
18"	24"	0.500
20"	30"	0.500
24"	36"	0.500
30"	42"	0.500



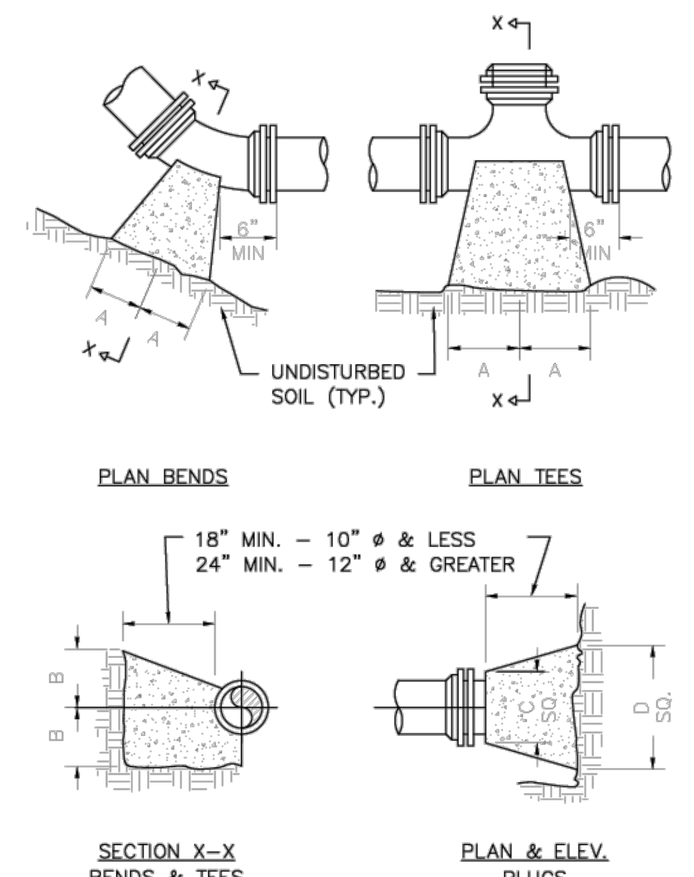
2 ENCASEMENT DETAIL
NOT TO SCALE



NOTES:

1. OFFSET SECTIONS SHALL BE THRUST-BLOCKED IN ACCORDANCE WITH DETAIL 4 OF THIS SHEET.
2. ALL WATER MAINS LESS THAN OR EQUAL TO 12" IN DIAMETER SHALL BE PVC C-900 (DR-18). ALL PROPOSED WATER MAINS GREATER THAN OR EQUAL TO 14" IN DIAMETER SHALL BE PVC C-905 (DR-18).
3. DUCTILE IRON FITTINGS SHALL BE FULL BODY PER AWWA C110.
4. CITY ENGINEER MUST APPROVE INSTANCES OF WATER MAIN OFFSET ABOVE OBSTRUCTION.

3 OFFSET ASSEMBLY DETAIL
NOT TO SCALE

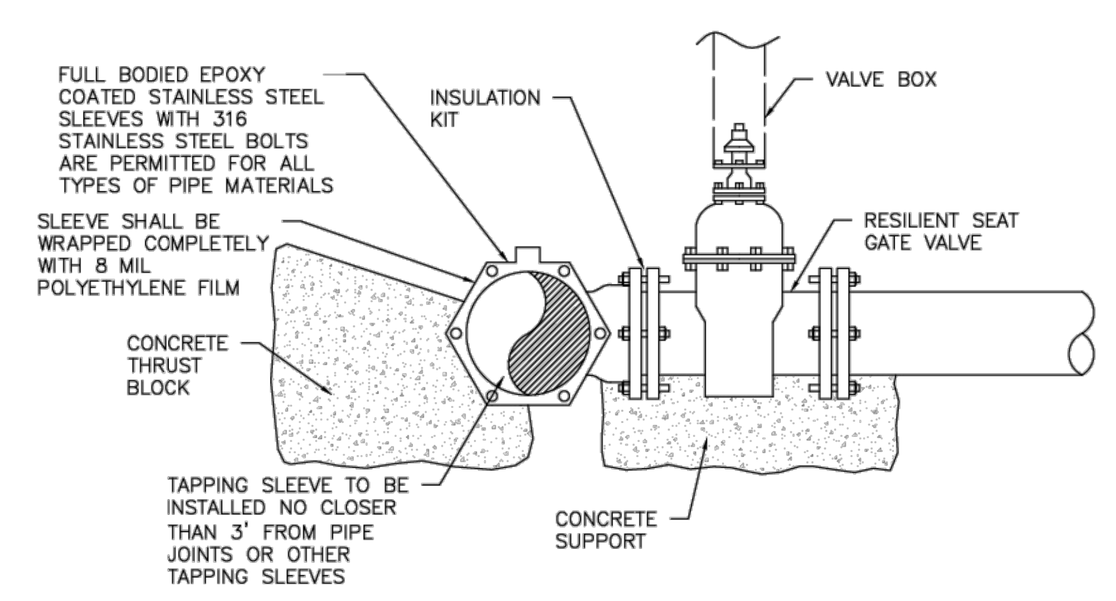


NOTES:

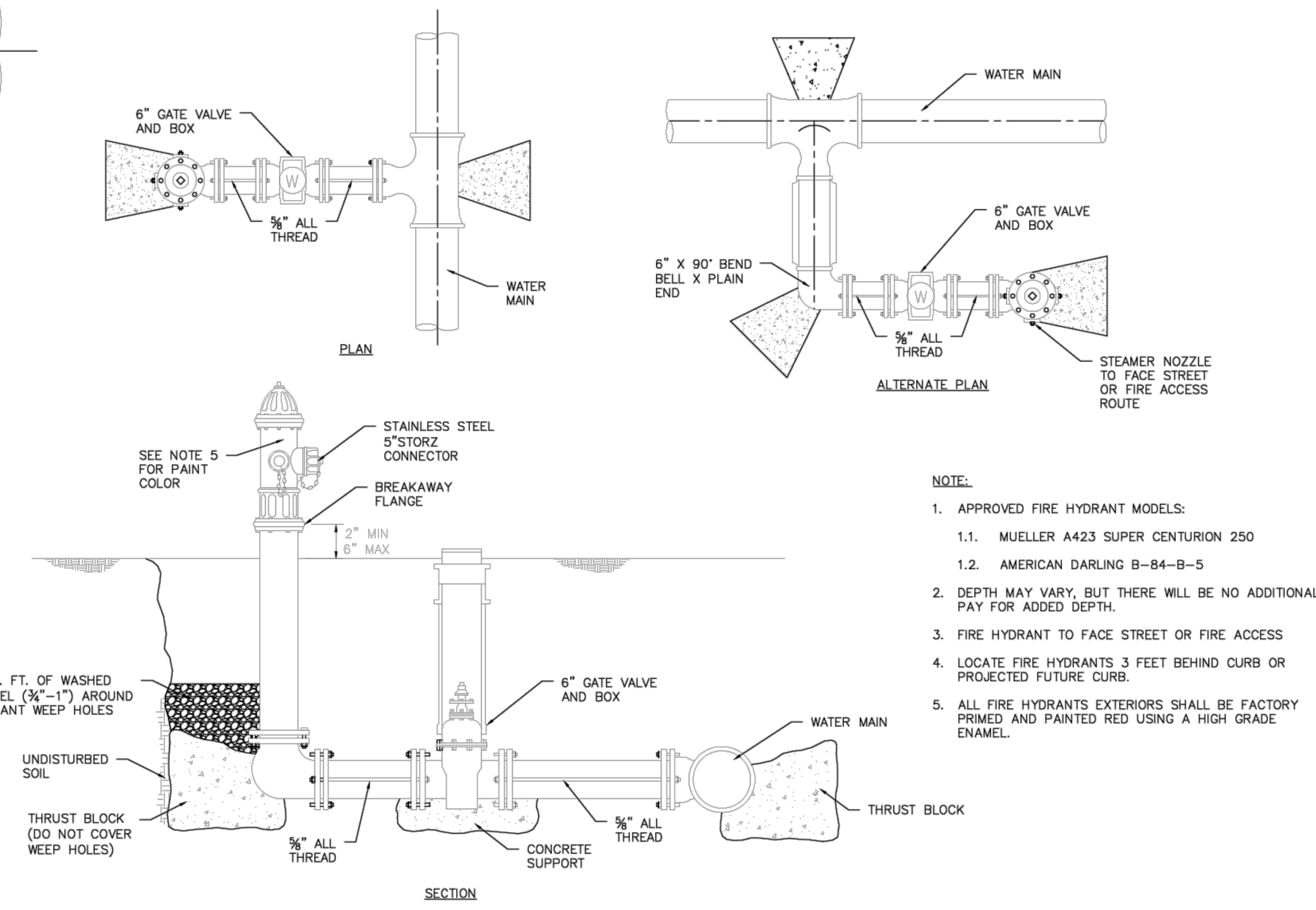
1. CONCRETE SHALL BE 2,000 PSI MIN.
2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.
3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
4. ALL FITTING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL POLYETHYLENE PRIOR TO POURING BLOCKING.
5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"
20"	36"	26"	24"	18"	18"	13"	12"	9"	19"	18"	24"	48"
24"	48"	33"	30"	21"	18"	18"	15"	11"	21"	21"	28"	56"

4 THRUST BLOCK DETAIL
NOT TO SCALE



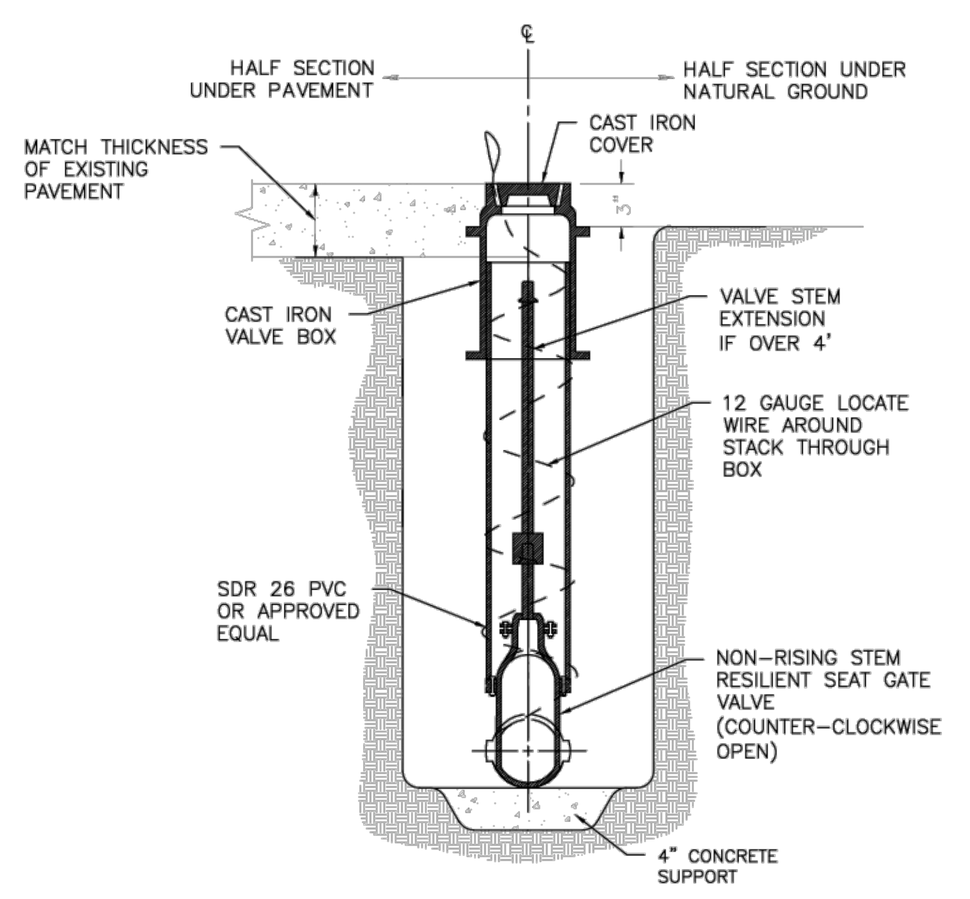
5 TAPPING SLEEVE & VALVE
NOT TO SCALE



NOTE:

1. APPROVED FIRE HYDRANT MODELS:
   1.1. MUELLER A423 SUPER CENTURION 250
   1.2. AMERICAN DARLING B-84-B-5
2. DEPTH MAY VARY, BUT THERE WILL BE NO ADDITIONAL PAY FOR ADDED DEPTH.
3. FIRE HYDRANT TO FACE STREET OR FIRE ACCESS
4. LOCATE FIRE HYDRANTS 3 FEET BEHIND CURB OR PROJECTED FUTURE CURB.
5. ALL FIRE HYDRANTS EXTERIORS SHALL BE FACTORY PRIMED AND PAINTED RED USING A HIGH GRADE ENAMEL.

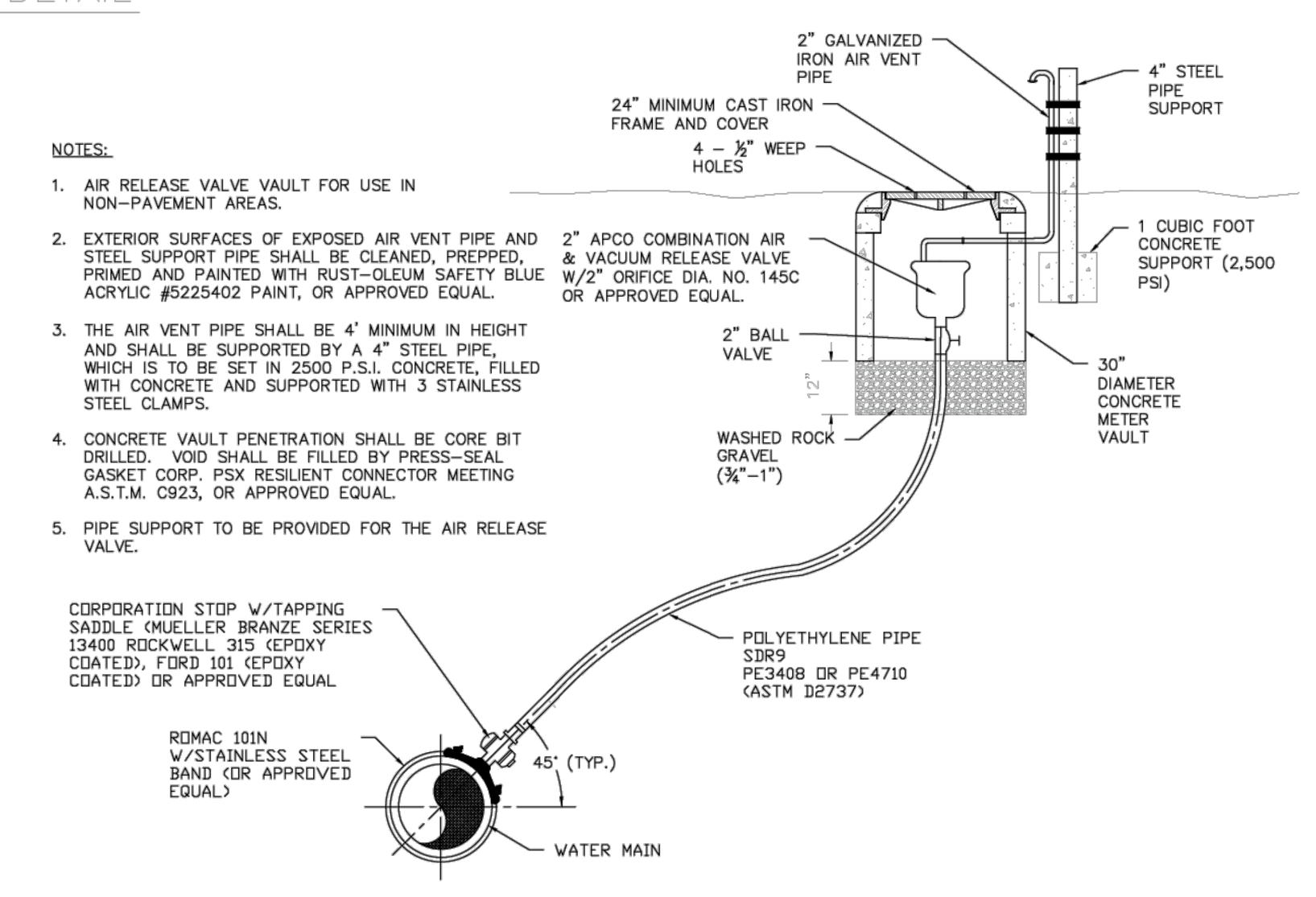
6 FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



7 VALVE BOX DETAIL
NOT TO SCALE

NOTES:

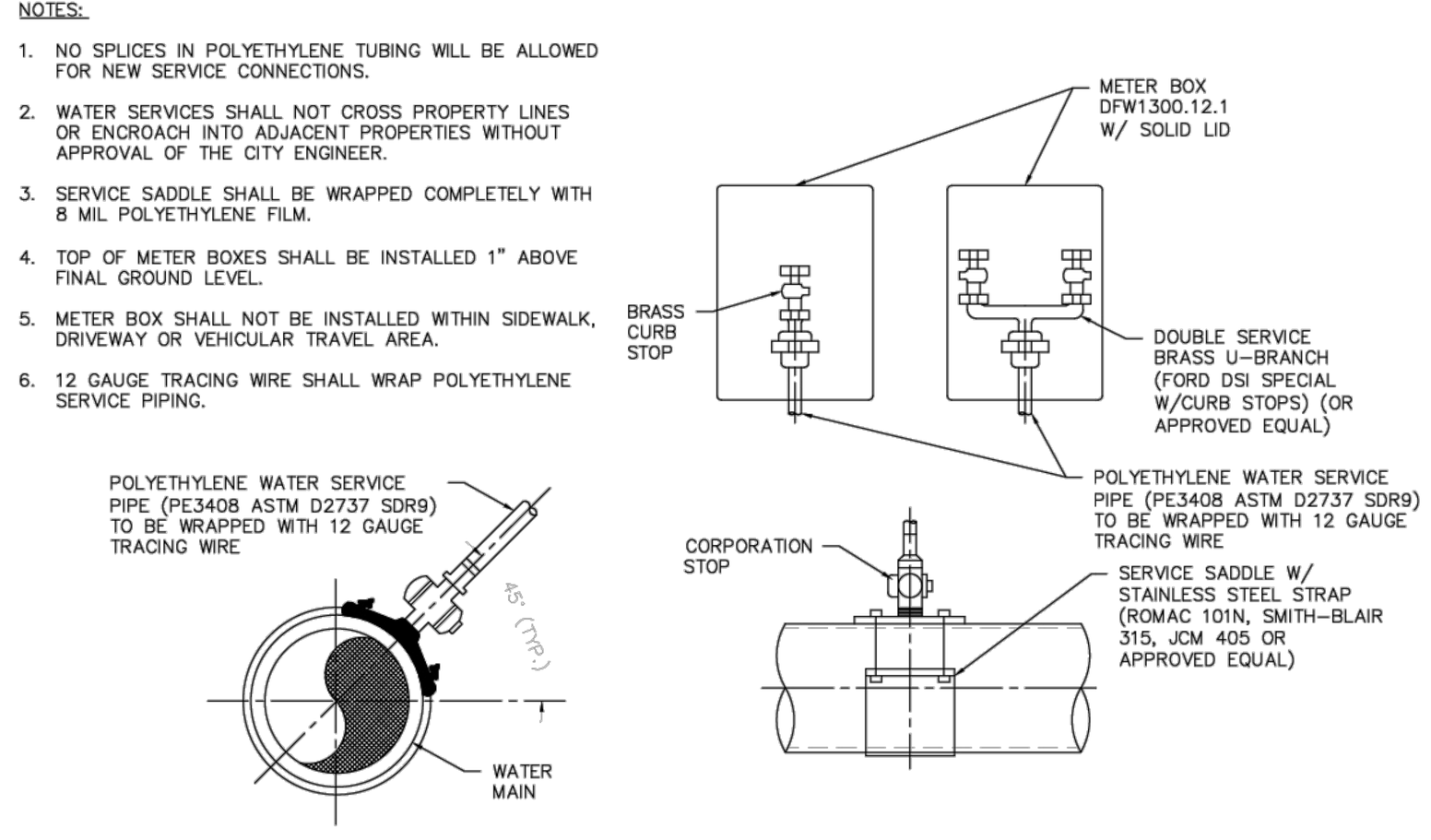
1. AIR RELEASE VALVE VAULT FOR USE IN NON-PAVEMENT AREAS.
2. EXTERIOR SURFACES OF EXPOSED AIR VENT PIPE AND STEEL SUPPORT PIPE SHALL BE CLEANED, PREPPED, PRIMED AND PAINTED WITH RUST-OLEUM SAFETY BLUE ACRYLIC #5225402 PAINT, OR APPROVED EQUAL.
3. THE AIR VENT PIPE SHALL BE 4' MINIMUM IN HEIGHT AND SHALL BE SUPPORTED BY A 4" STEEL PIPE, WHICH IS TO BE SET IN 2500 P.S.I. CONCRETE, FILLED WITH CONCRETE AND SUPPORTED WITH 3 STAINLESS STEEL CLAMPS.
4. CONCRETE VAULT PENETRATION SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED BY PRESS-SEAL GASKET CORP. PSX RESILIENT CONNECTOR MEETING A.S.T.M. C923, OR APPROVED EQUAL.
5. PIPE SUPPORT TO BE PROVIDED FOR THE AIR RELEASE VALVE.



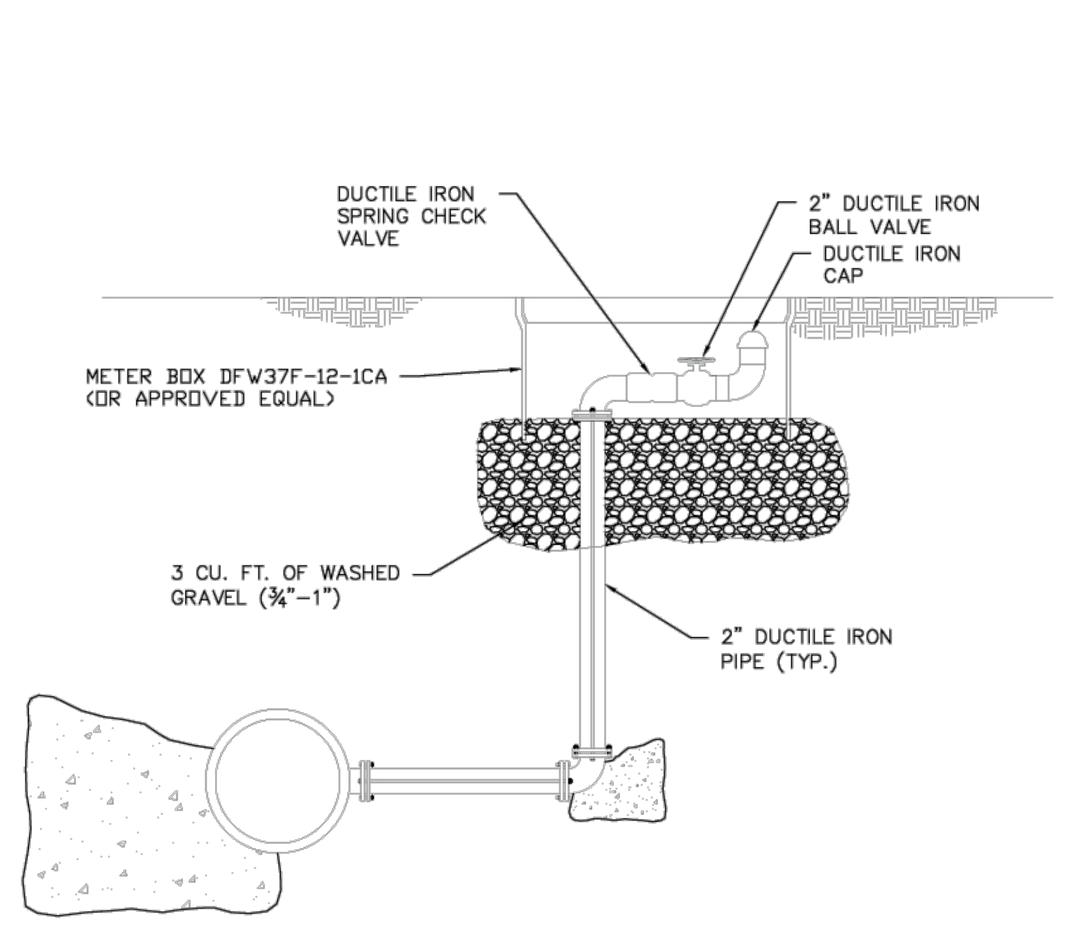
8 AIR RELEASE VALVE DETAIL
NOT TO SCALE

NOTES:

1. NO SPLICES IN POLYETHYLENE TUBING WILL BE ALLOWED FOR NEW SERVICE CONNECTIONS.
2. WATER SERVICES SHALL NOT CROSS PROPERTY LINES OR ENCROACH INTO ADJACENT PROPERTIES WITHOUT APPROVAL OF THE CITY ENGINEER.
3. SERVICE SADDLE SHALL BE WRAPPED COMPLETELY WITH 8 MIL POLYETHYLENE FILM.
4. TOP OF METER BOXES SHALL BE INSTALLED 1" ABOVE FINAL GROUND LEVEL.
5. METER BOX SHALL NOT BE INSTALLED WITHIN SIDEWALK, DRIVEWAY OR VEHICULAR TRAVEL AREA.
6. 12 GAUGE TRACING WIRE SHALL WRAP POLYETHYLENE SERVICE PIPING.



9 WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



10 STANDARD BLOW OFF VALVE ASSEMBLY
NOT TO SCALE

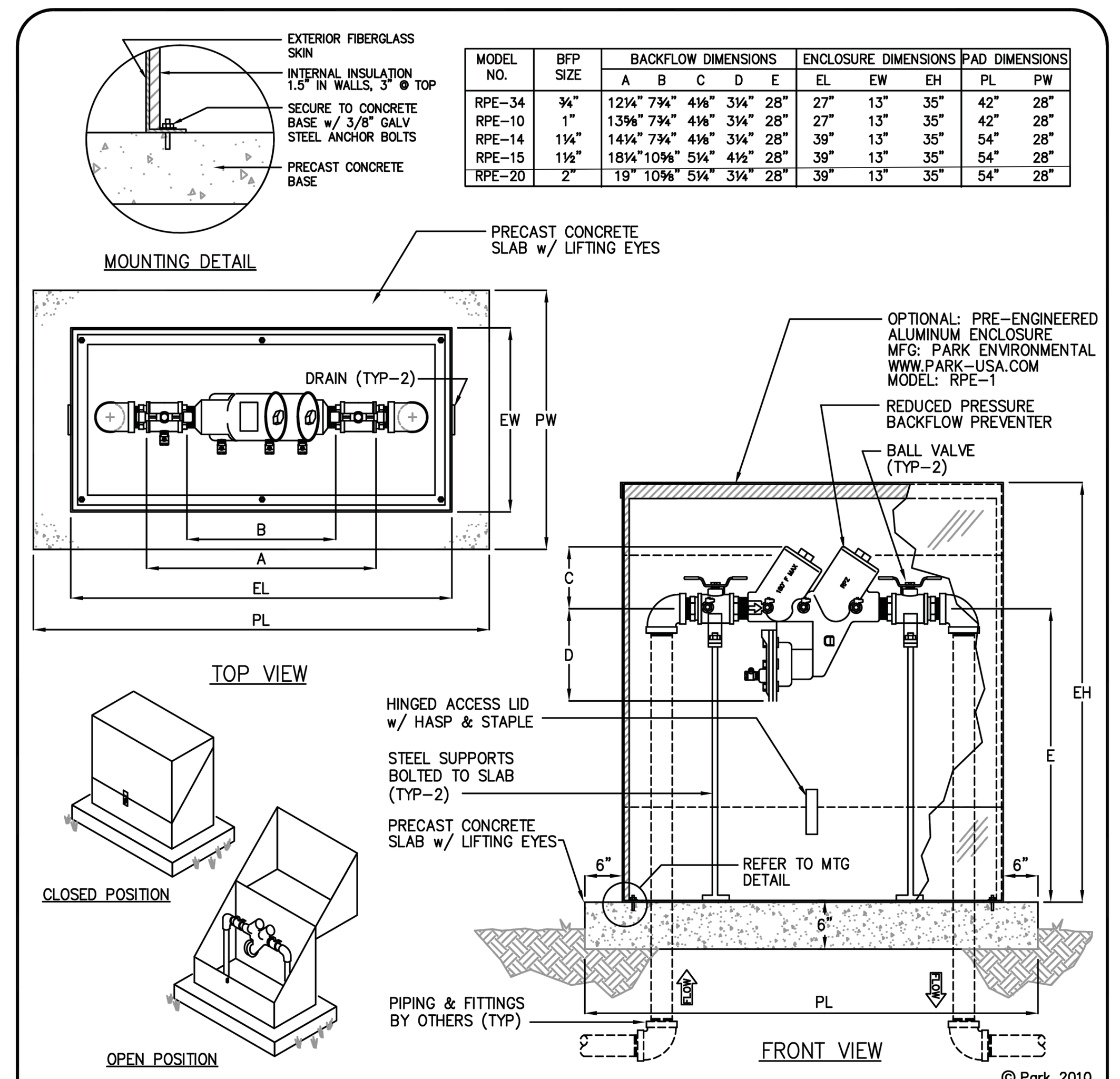
REVISION	DATE	NO.

THE CITY OF TOMBALL TEXAS FOUNDED 1907

CITY OF TOMBALL
WATER CONSTRUCTION DETAILS

APPROVED BY CITY OF TOMBALL ENGINEERING DEPARTMENT
Wesley Stot
CITY ENGINEER
EFFECTIVE APRIL 9, 2021

SHEET WA-01
SEQ.



MODEL NO.	BFP SIZE	BACKFLOW DIMENSIONS					ENCLOSURE DIMENSIONS			PAD DIMENSIONS	
		A	B	C	D	E	EL	EW	EH	PL	PW
RPE-34	¾"	12¼"	7¾"	4⅛"	3¼"	28"	27"	13"	35"	42"	28"
RPE-10	1"	13⅝"	7¾"	4⅛"	3¼"	28"	27"	13"	35"	42"	28"
RPE-14	1¼"	14¼"	7¾"	4⅛"	3¼"	28"	39"	13"	35"	54"	28"
RPE-15	1½"	18¼"	10⅝"	5¼"	4½"	28"	39"	13"	35"	54"	28"
RPE-20	2"	19"	10⅝"	5¼"	3¼"	28"	39"	13"	35"	54"	28"

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Specifications

CONCRETE : Class II concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

Typical Applications

RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data

The backflow assembly shall be factory assembled on pad & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

FM AWWA UL UPC NPCA CERTIFIED PLANT

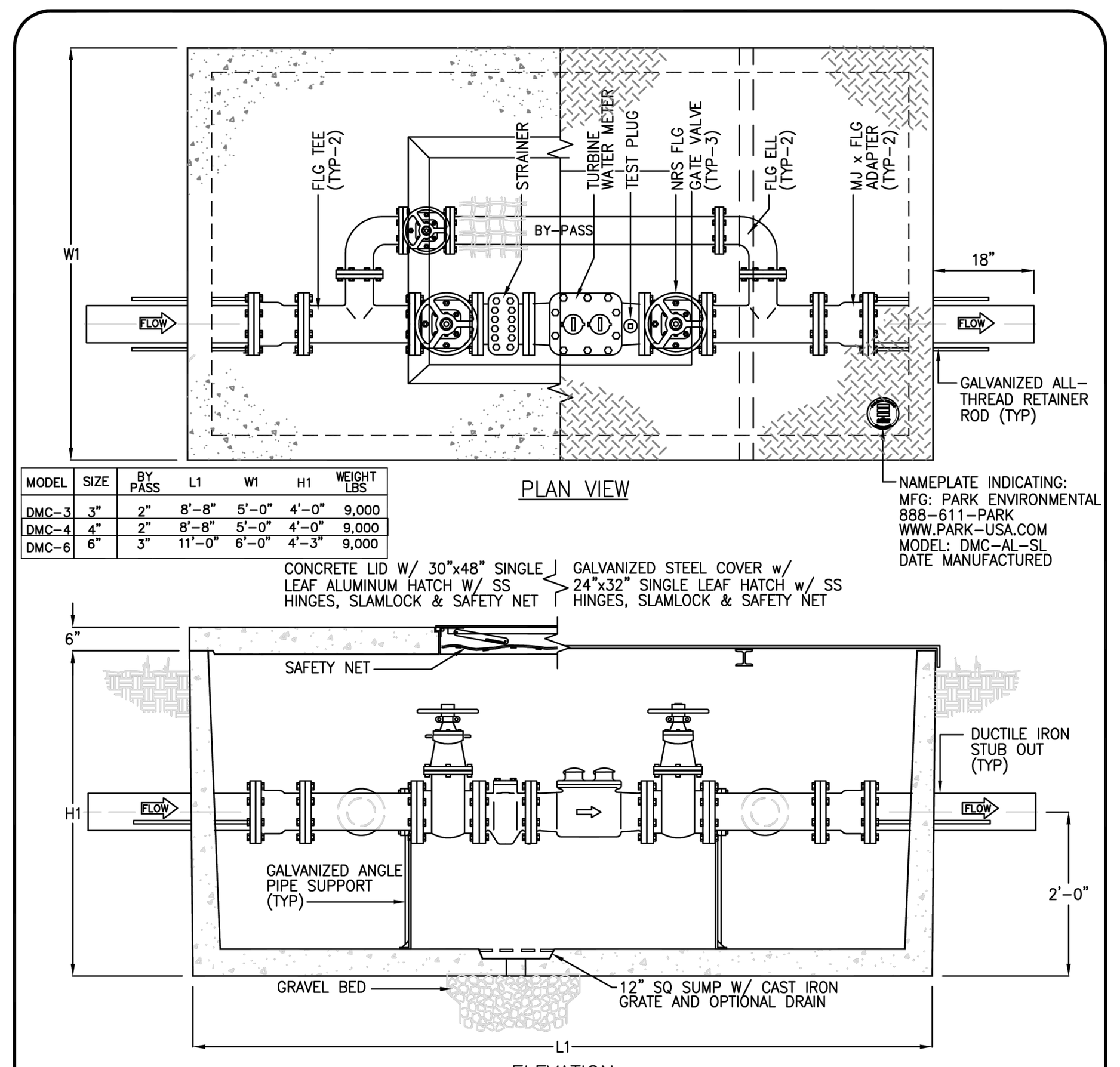
PROJECT :
CUSTOMER :
ARCHITECT :
ENGINEER :
ORDER # :
DATE :

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com
"Expect the Best"

REDUCED PRESSURE BACKFLOW PREVENTER ON PRECAST CONCRETE PAD MODEL RPE - 3/4" THRU 2"

SCALE NONE | DWG. NO. RPE-1 | REV. A
DATE 2010

1-8 All drawings are avalible for download at www.park-usa.com in .dwg & .pdf formats



MODEL	SIZE	BY PASS	L1	W1	H1	WEIGHT LBS
DMC-3	3"	2"	8'-8"	5'-0"	4'-0"	9,000
DMC-4	4"	2"	8'-8"	5'-0"	4'-0"	9,000
DMC-6	6"	3"	11'-0"	6'-0"	4'-3"	9,000

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Specifications

CONCRETE : Class II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

STEEL COVER: 1/4" steel skid-resistant floor plate welded to 3" angle frame with (2) 3"x2-3/8" I beam supports (300 PSF).

HATCHWAY: 1/4" Aluminum diamond plate cover with extruded aluminum frame. Hatch to be furnished with 316 stainless steel snap lock & brass hinges.

Engineering Data

The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

FM AWWA UL UPC NPCA CERTIFIED PLANT

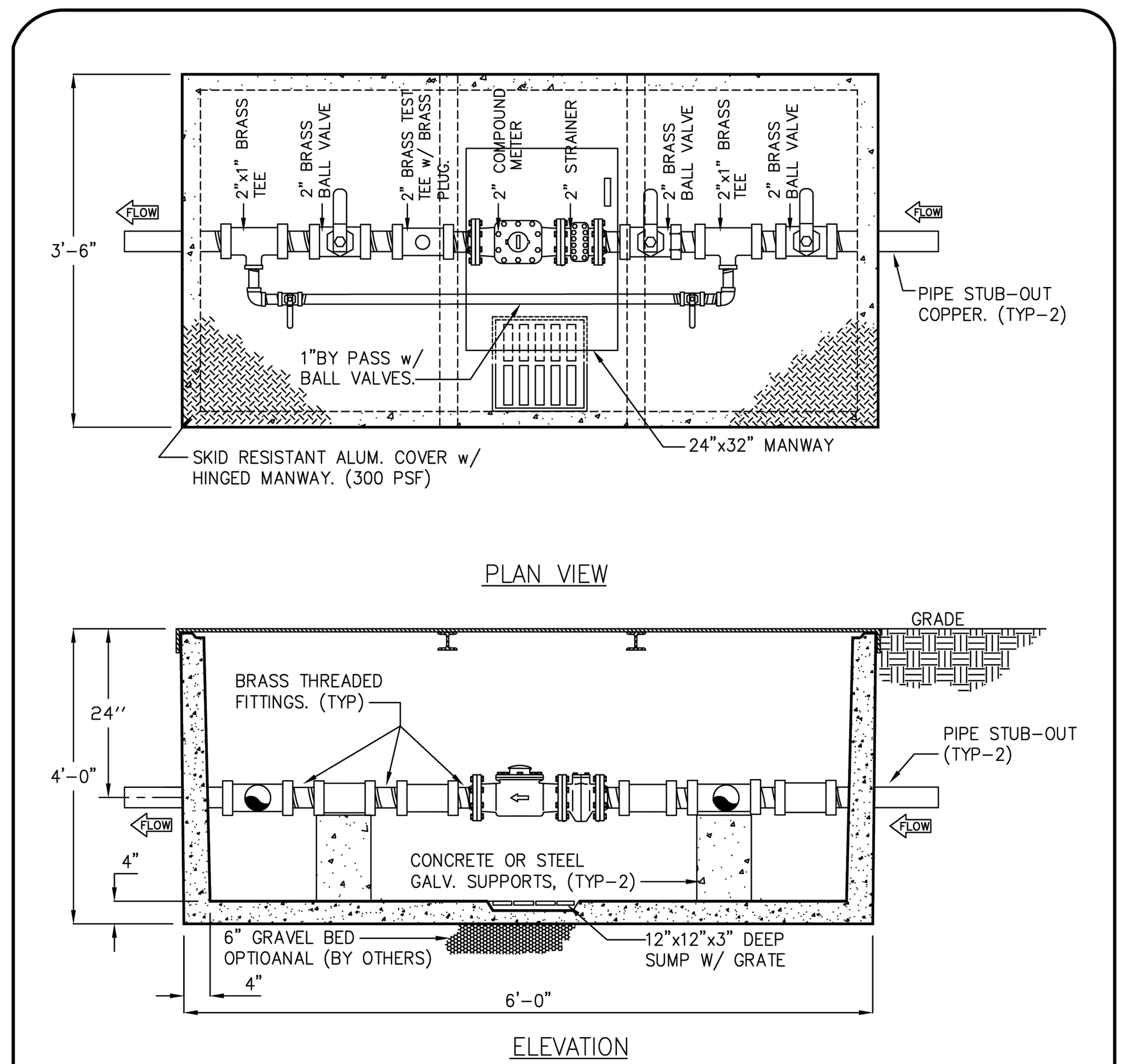
PROJECT :
CUSTOMER :
ARCHITECT :
ENGINEER :
ORDER # :
DATE :

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com
"Expect the Best"

DOMESTIC COMPOUND WATER METER ASSEMBLY MODEL DMC - 3" THRU 6"

SCALE NONE | DWG. NO. DMC-AL-SL | REV. A
DATE 2010

2-6 All drawings are avalible for download at www.park-usa.com in .dwg & .pdf formats



Specifications

CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Gross empty weight of approximately 5,000 pounds.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

ALUM. COVER: 1/4" aluminum skid-resistant floor plate welded to angle frame & hinged manway.

Engineering Data

Field excavation and preparation shall be completed prior to delivery of assembly. Use dimensional data as shown. Pipe, valves and fittings of the assembly are approved by one or more of the following associations:

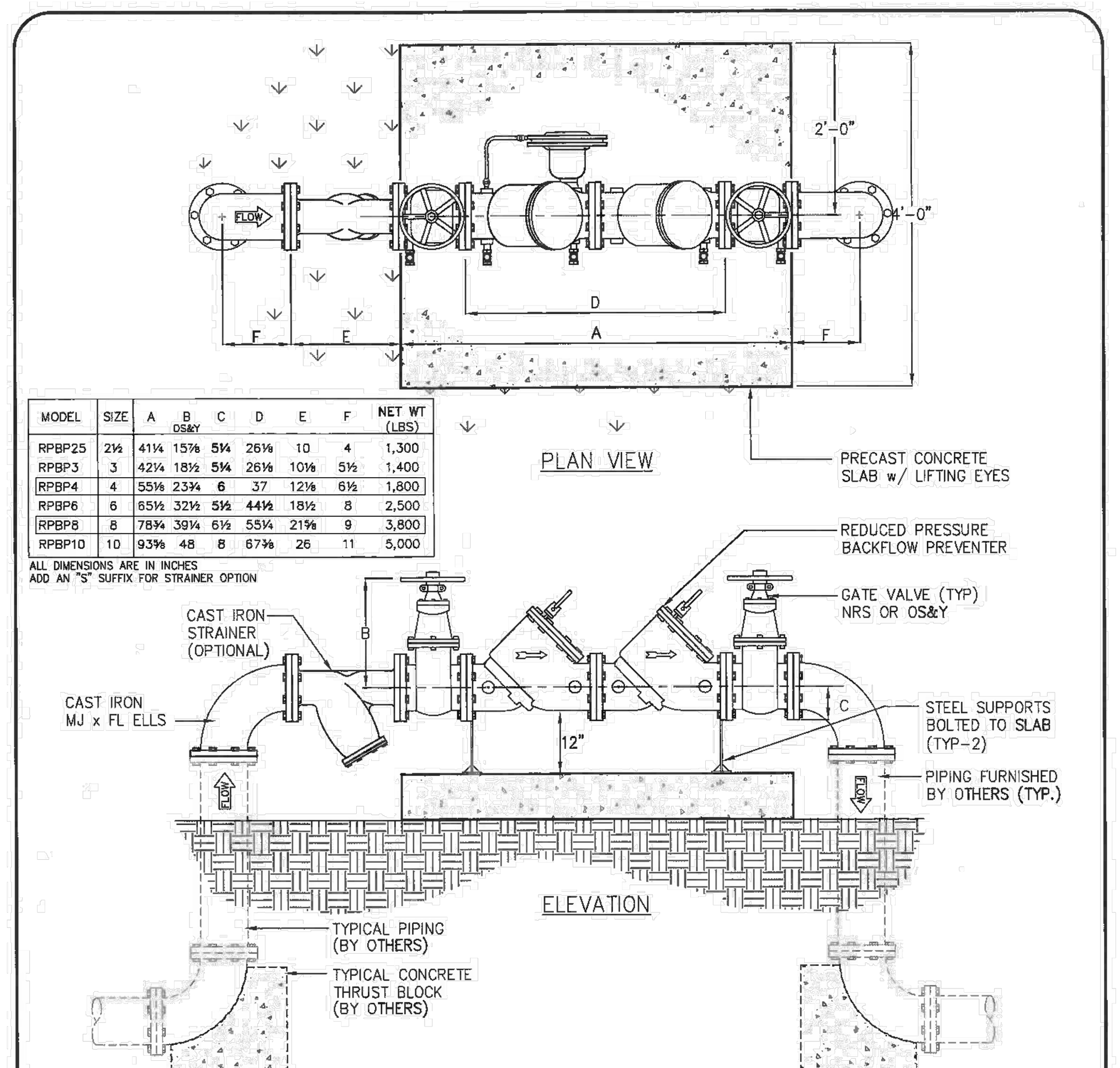
AWWA UL UPC

PROJECT:
CUSTOMER:
ENGINEER:
ORDER #:
PROJ #:
DATE:

888.611.PARK www.parkusa.com
PARK USA DESIGN FOR WATER

2'' WATER METER ASSEMBLY

PM | DRN | ENG | DWG. NO. DMC-2 | REV. A
DATE 08/2017
DMC2-1



MODEL	SIZE	A	B OS&Y	C	D	E	F	NET WT (LBS)
RPBP25	2½	41¼	15⅞	5¼	26⅛	10	4	1,300
RPBP3	3	42¼	18½	5¼	26⅛	10⅛	5½	1,400
RPBP4	4	55⅛	23¾	6	37	12⅛	6½	1,800
RPBP6	6	65½	32½	5½	44½	18½	8	2,500
RPBP8	8	78¾	39¼	6½	55¼	21⅝	9	3,800
RPBP10	10	93⅜	48	8	67⅜	26	11	5,000

ALL DIMENSIONS ARE IN INCHES
ADD AN "S" SUFFIX FOR STRAINER OPTION

© Park 2002

Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

Typical Applications

RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data

The backflow assembly shall be factory assembled on pad & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL UPC FM

PROJECT :
CUSTOMER:
ARCHITECT :
ENGINEER :
ORDER # :
DATE :

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com
"Expect the Best"

REDUCED PRESSURE BACKFLOW PREVENTER w/ STRAINER ON PRECAST CONCRETE PAD

SCALE NONE | DWG. NO. RPBPS-1 | REV. A
DATE 1/06

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

Revision / S&S
Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED PROFESSIONAL ENGINEER
7/13/26
Sara Karouni

Huckabee
www.huckabee-inc.com
800.687.1229

WATER AND SANITARY SEWER DETAILS (1 OF 2)
VOLUME 01

Job No. 00788-002
Drawn By: CT
Date: 07.13.26
Sheet No. C9.1
S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C9.1 Water & Sanitary Sewer Details.dwg Last Plotted: Mon Jul 13, 2026 - 6:55pm By: cteague

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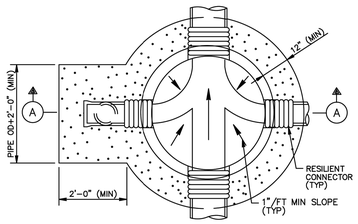
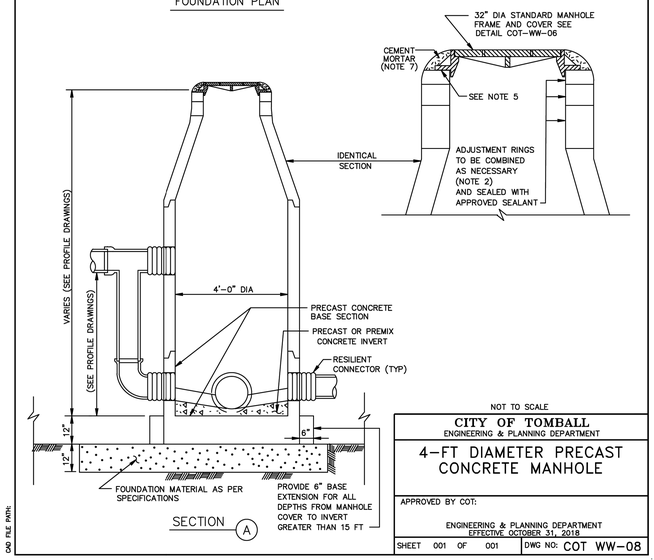


FOUNDATION PLAN

NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12", THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME IN SEALANT PER COT STANDARD SPECIFICATION.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8" O.C.E.W.
9. PROVIDE BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER STANDARD SPECIFICATIONS.
10. INSIDE OF MANHOLE SHALL BE LINED WITH RAVEN LINING 405 EPOXY LINER, OR APPROVED EQUAL WITH 100 MILS MINIMUM THICKNESS.



CAD FILE PATH:

NOT TO SCALE

CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

4-FT DIAMETER PRECAST CONCRETE MANHOLE

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE OCTOBER 31, 2018

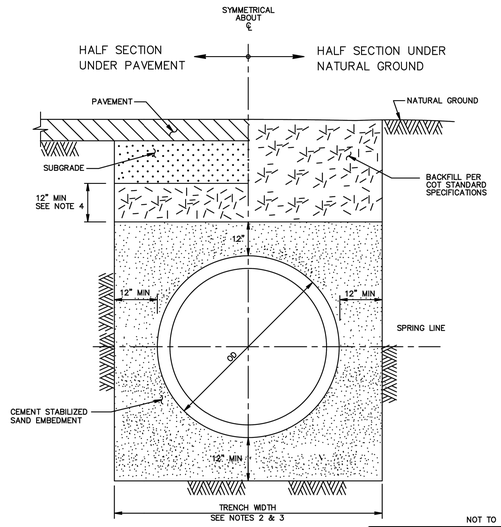
SHEET 001 OF 001 | DWG NO: COT WW-08

NOTES:

1. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.



CAD FILE PATH:

NOT TO SCALE

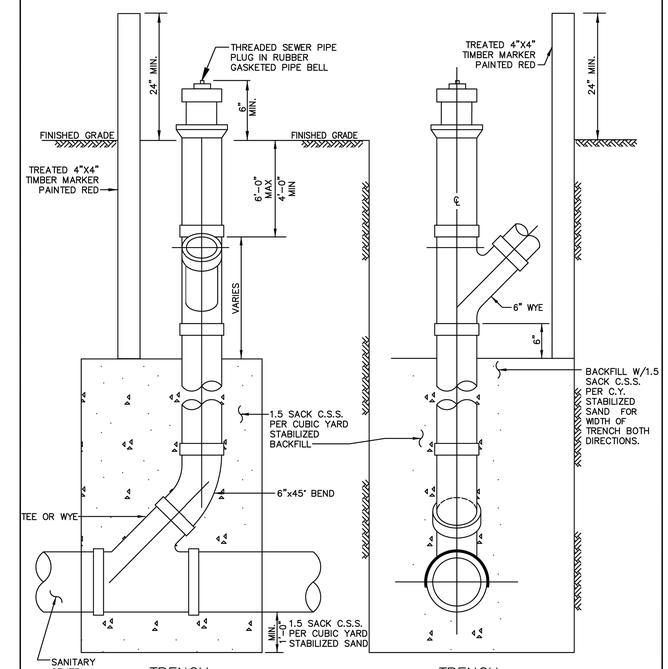
CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

SANITARY BEDDING & BACKFILL FOR DRY STABLE TRENCH

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE JULY 1, 2010

SHEET 001 OF 001 | DWG NO: COT WW-19



NOTES:

A.) NO STACKS ON MAINS OVER 18' DEEP OR IN WET SAND CONDIITIONS.

B.) ALL STACK CONNECTIONS SHALL BE IN-LINE FITTINGS.

CAD FILE PATH:

NOT TO SCALE

CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

SANITARY SEWER STANDARD STACK CONSTRUCTION DETAILS

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE JULY 1, 2010

SHEET 001 OF 001 | DWG NO: COT WW-15

Date 07/13/2026

Revision / S&S

Project:

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
07/13/26

Huckabee
www.huckabee-inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

WATER AND SANITARY SEWER DETAILS (2 OF 2) VOLUME 01

Job No.	Sheet No.
00788-002	C9.2
Drawn By: CT	
Date: 07.13.26	

S&S

11/18/2025 8:39:39 AM

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C9.1 Water & Sanitary Sewer Details.dwg Last Plotted: Mon Jul 13, 2026 - 6:53pm By: cteague

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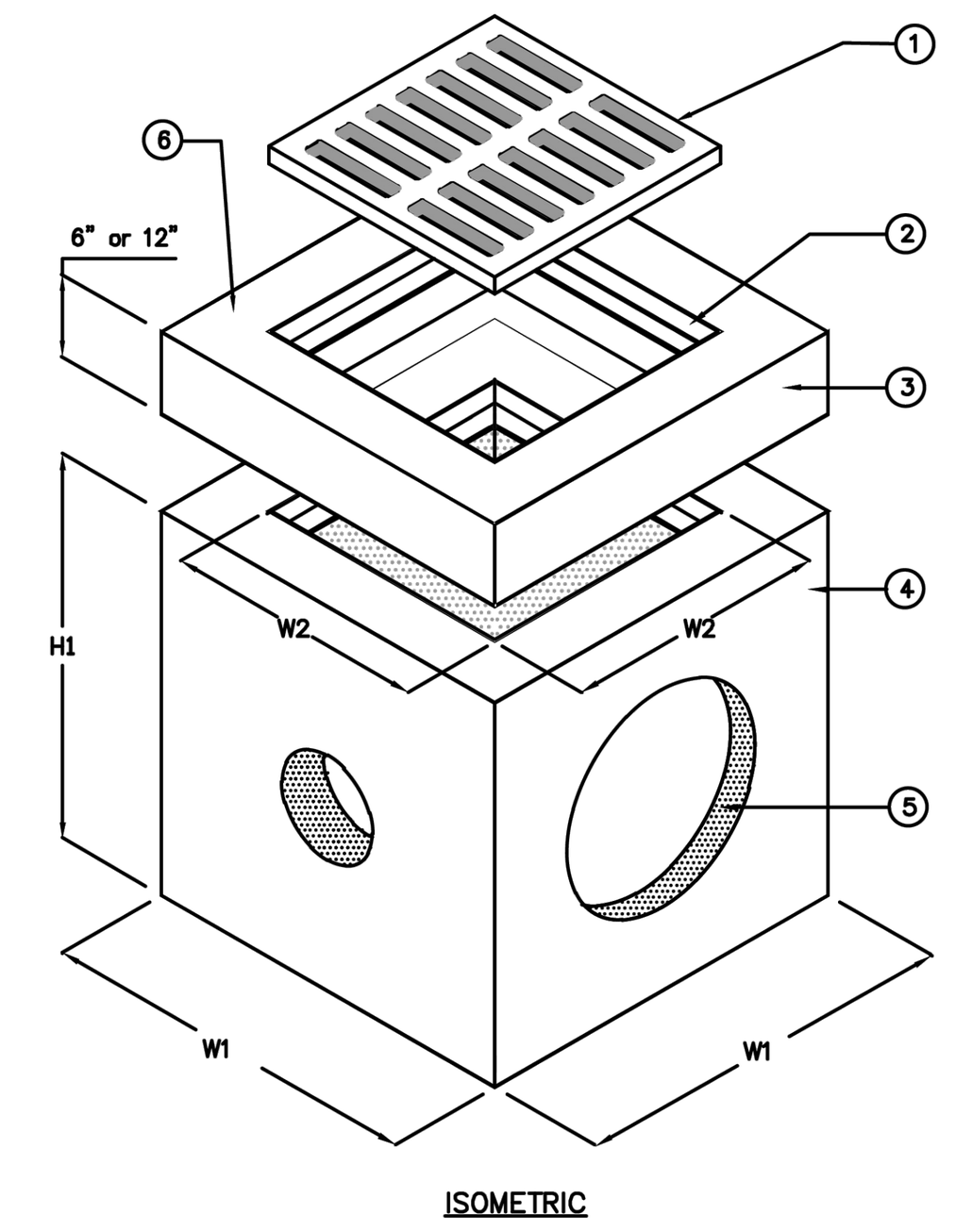
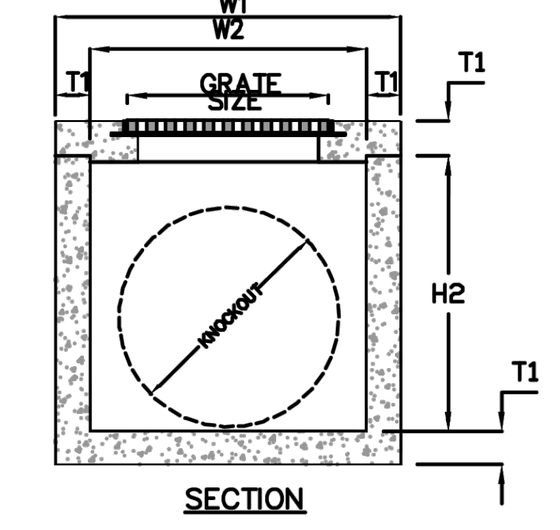
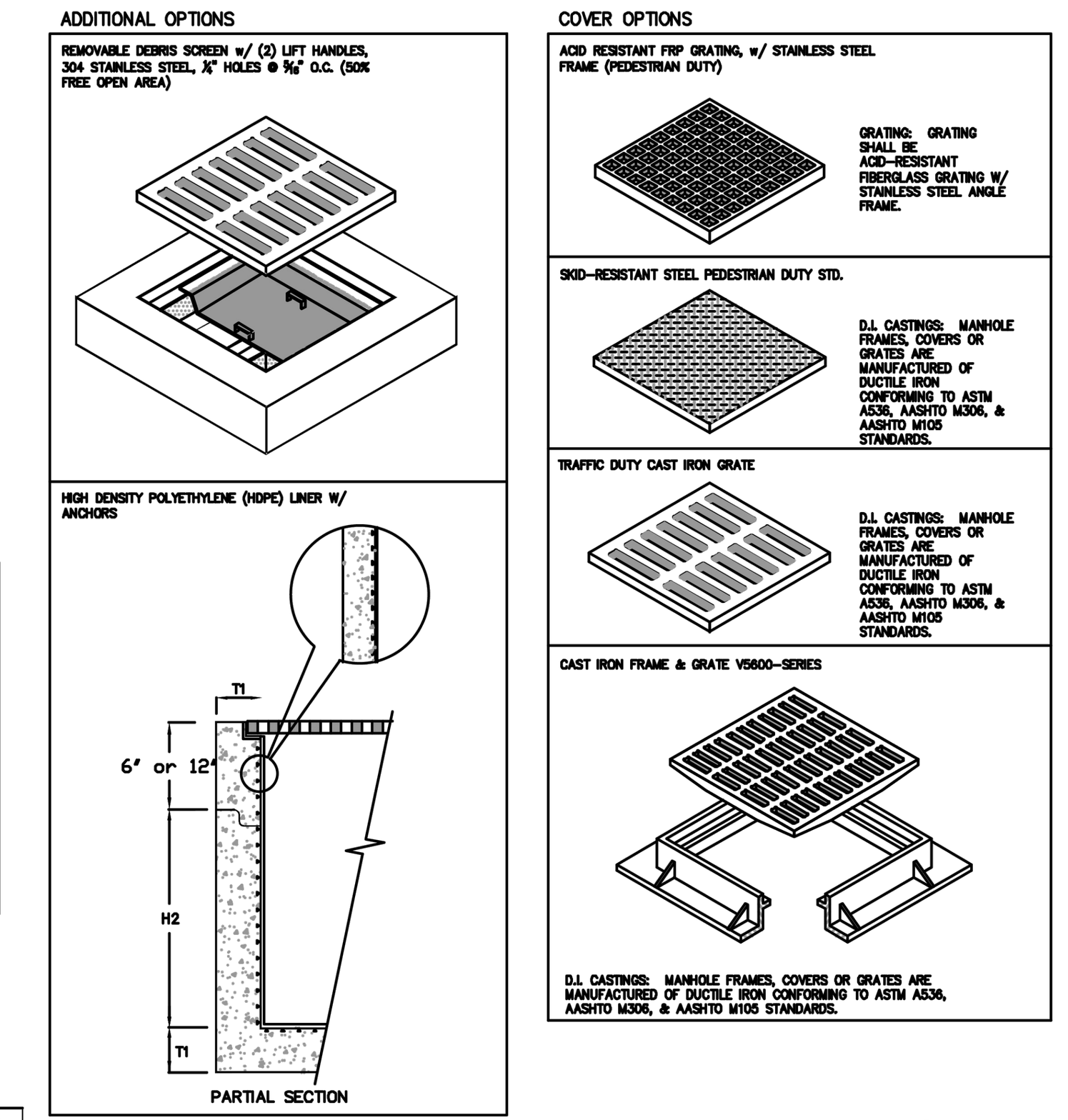


NOTE: KNOCKOUTS–STD, PENETRATIONS–OPTIONAL



KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	GRATE OR COVER AS REQUESTED, SEE OPTIONS
2	1	CAST–IN STEEL FRAME
3	1	OPTIONAL TOP/EXTENSION 6" TO 18"
4	1	PRECAST CONCRETE BASIN SECTION
5	4	KNOCKOUTS (STD) AND PENETRATIONS (OPT) AS REQUIRED, SEE KO DIMENSION FOR MAXIMUM PIPE O.D.*
6	1	NAMEPLATE INDICATING: MFG: PARKUSA 888–611–PARK WWW.PARKUSA.COM MODEL: CB–01 DATE MANUFACTURED



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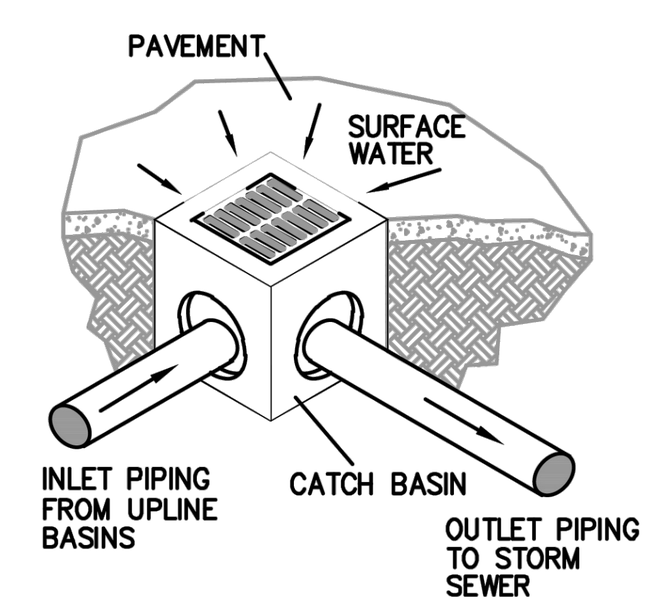
MODEL	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	OPEN AREA	WEIGHT LBS
CB–12	15"	10"	21"	18"	3"	2"	10"	12"x12"x1"	90	180
CB–14	20"	12"	28"	24"	4"	4"	12"	14"x14"x1½"	120	600
CB–18	24"	16"	34"	30"	4"	4"	15"	18"x18"x1½"	168	1,000
CB–20	26"	18"	34"	30"	4"	4"	17"	20"x20"x1½"	170	1,335
CB–24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	268	2,245
CB–27	37"	25"	42"	36"	6"	6"	24"	27"x27"x2"	350	2,875
CB–30	42"	30"	42"	36"	6"	6"	30"	32"x32"x2"	490	3,675
CB–36	48"	36"	42"	36"	6"	6"	32"	38"x38"x2"	693	4,585
CB–48	60"	48"	54"	48"	6"	6"	48"	38"x38"x2"	693	7,250
*CB–60	72"	60"	66"	60"	6"	6"	60"	38"x38"x2"	693	10,500
*CB–72	84"	72"	78"	72"	6"	6"	72"	38"x38"x2"	693	15,350
*CB–84	96"	84"	78"	72"	6"	6"	72"	38"x38"x2"	693	19,500

*KNOCKOUTS NOT AVAILABLE



CREATED ON 4/19/2024 BY ––––
LAST MODIFIED ON 4/19/2024 3:18 PM BY kvu

SPECIFICATIONS

CONCRETE : CLASS I/II CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48–76 CLASS 30.

npca CERTIFIED PLANT ASTM C–913

MARK:	–
LINE:	–
STA:	–
SHEET:	–
DATE:	–

A	.	.	.
REV	DATE	BY	DESCRIPTION

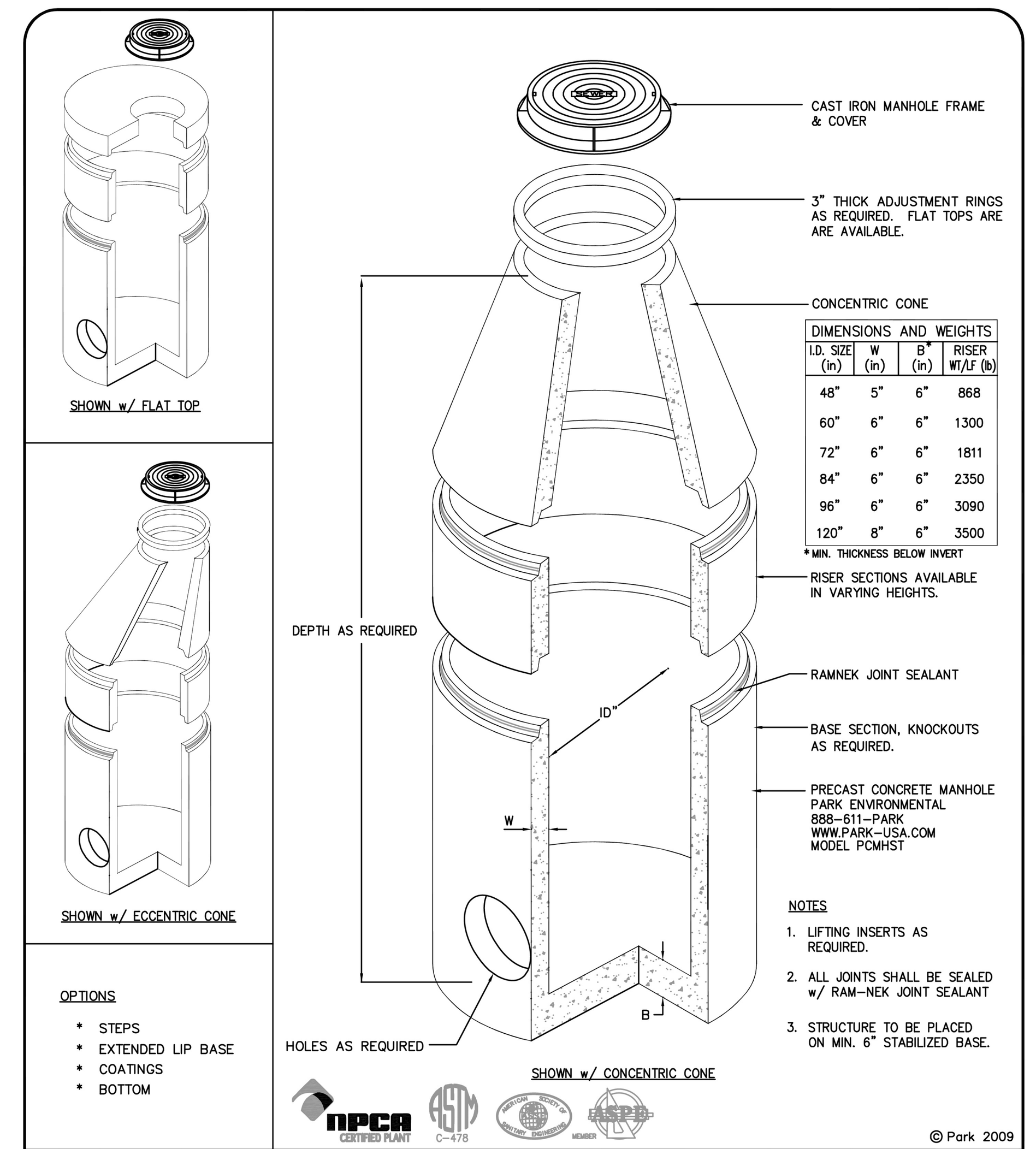
PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA
A Northwest Pipe Company

CATCH BASIN
MODEL CB – 12" THRU 84"

PM	PC	DRN	ENG	DWG. NO.	REV.
.	.	.	.	CB–1	A

DATE .



DIMENSIONS AND WEIGHTS			
I.D. SIZE (in)	W (in)	B* (in)	RISER WT/LF (lb)
48"	5"	6"	868
60"	6"	6"	1300
72"	6"	6"	1811
84"	6"	6"	2350
96"	6"	6"	3090
120"	8"	6"	3500

*MIN. THICKNESS BELOW INVERT

NOTES
1. LIFTING INSERTS AS REQUIRED.
2. ALL JOINTS SHALL BE SEALED w/ RAM–NEK JOINT SEALANT
3. STRUCTURE TO BE PLACED ON MIN. 6" STABILIZED BASE.

OPTIONS
* STEPS
* EXTENDED LIP BASE
* COATINGS
* BOTTOM

npca CERTIFIED PLANT ASTM C–478

© Park 2009

Specifications

CONCRETE : Class 1 concrete with of design strength of 4500 PSI at 28 days. Rated for H–20 loading.

REINFORCEMENT: Structural reinforcement conforming to ASTM–C–478.

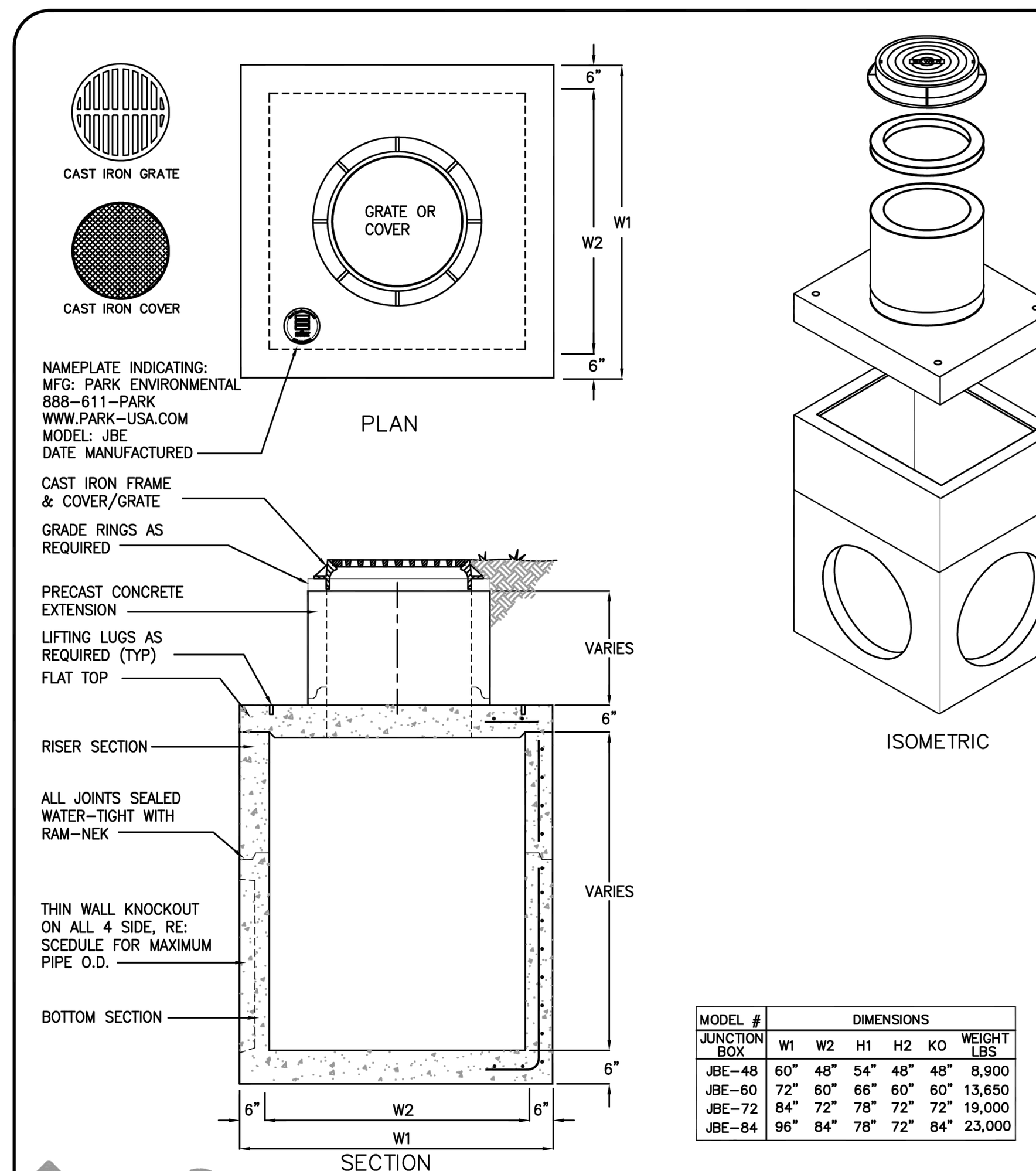
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48–76 Class 35.

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com
"Expect the Best"

PRECAST CONCRETE MANHOLE
FOR STORM SEWER - MODEL PCMHST - 48" THRU 120"

SCALE	DWG. NO.	REV.
NONE	PCMHST–1	A
DATE 12/09		

All drawings are avalible for download at www.park-usa.com in .dwg & .pdf formats   3-37



MODEL #	DIMENSIONS					
JUNCTION BOX	W1	W2	H1	H2	KO	WEIGHT LBS
JBE–48	60"	48"	54"	48"	48"	8,900
JBE–60	72"	60"	66"	60"	60"	13,650
JBE–72	84"	72"	78"	72"	72"	19,000
JBE–84	96"	84"	78"	72"	84"	23,000

npca CERTIFIED PLANT ASTM C–913

© Park 2009

SPECIFICATIONS

CONCRETE : Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H–20 Loading.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48–76 Class 30.

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com
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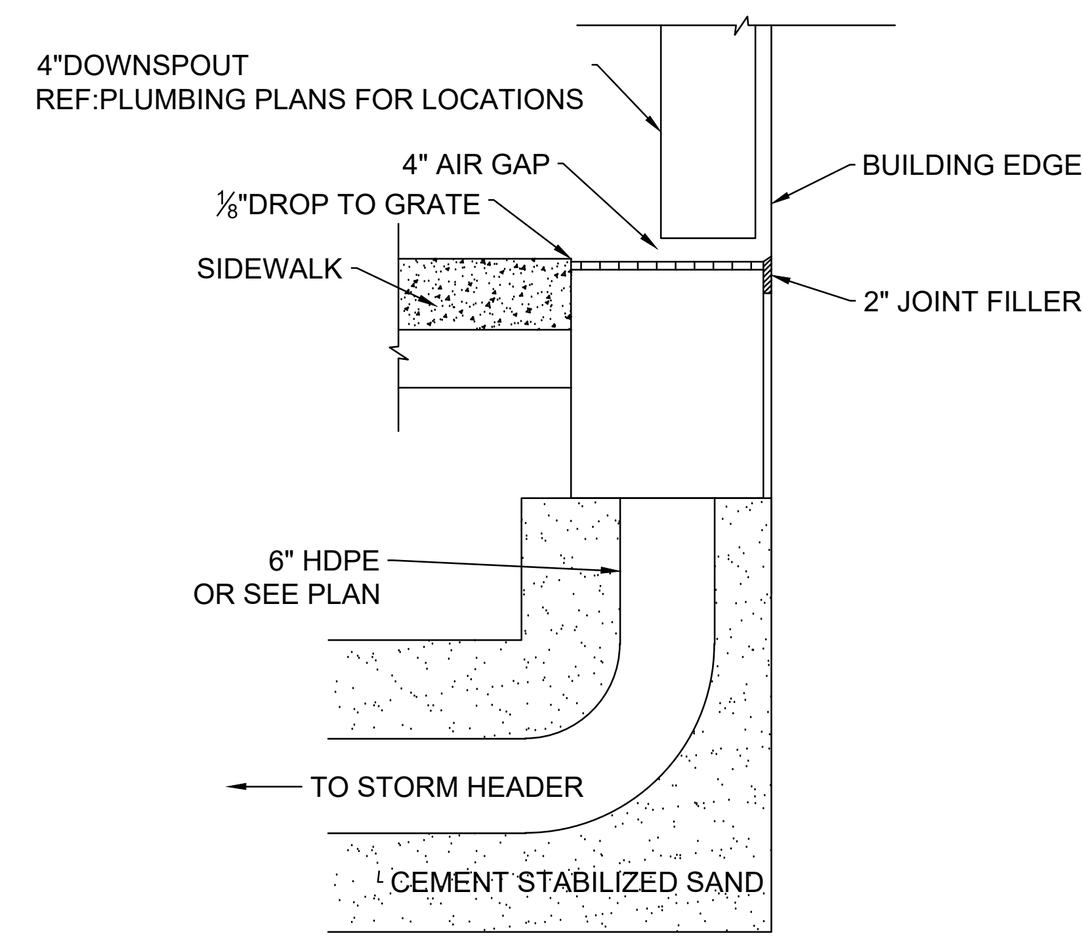
JUNCTION BOX
MODEL JBE– 48" THRU 84"

SCALE	DWG. NO.	REV.
NONE	JBE–1	A
DATE 12/09		



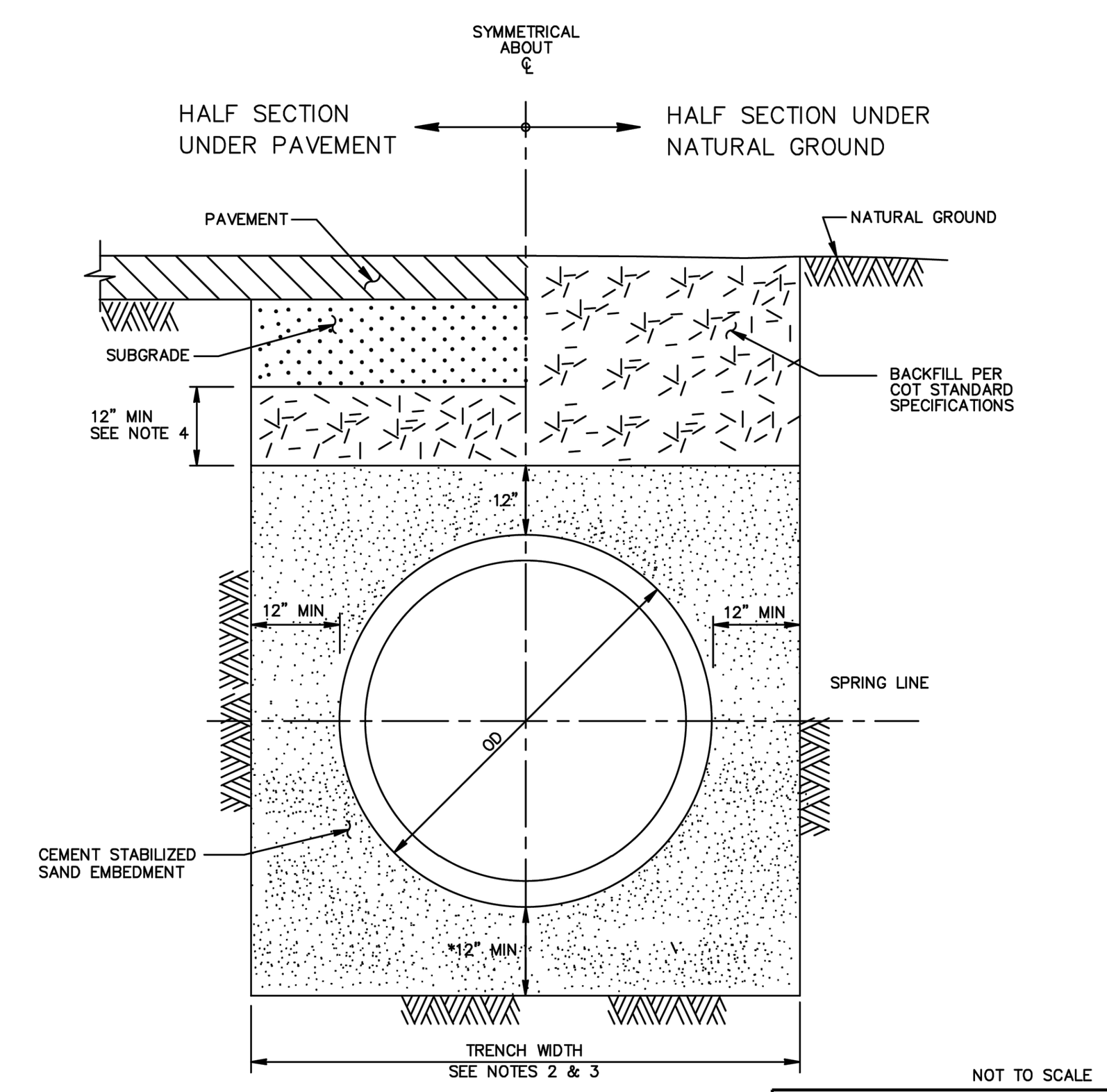
DOWNSPOUT TIE-IN

N.T.S.

NOTES:
1. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.



* MINIMUM DEPTH 7" FOR 36" OR SMALLER HDPE PIPES.

CAD FILE PATH:

NOT TO SCALE

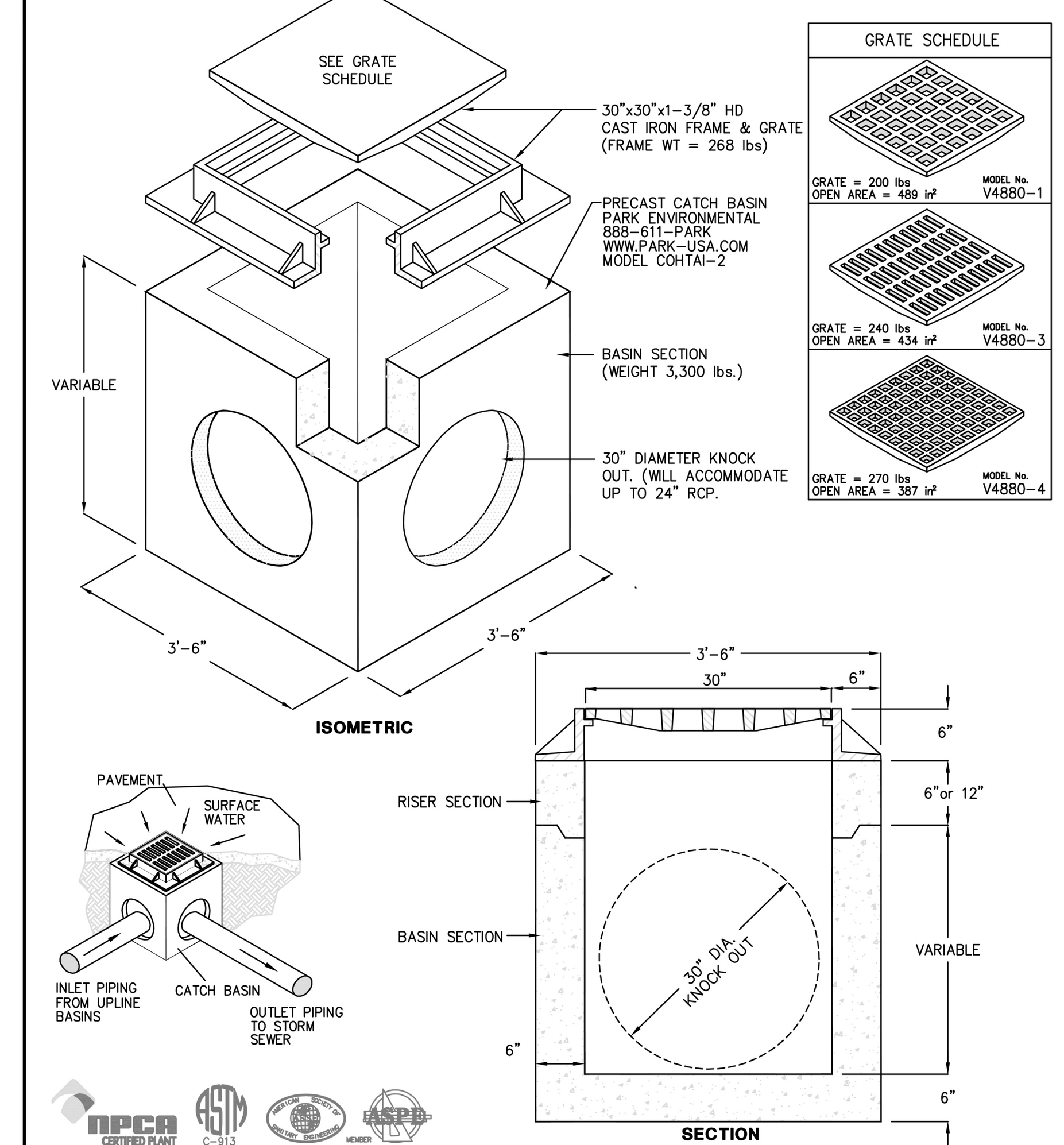
CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

STORM BEDDING & BACKFILL FOR DRY STABLE TRENCH

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE SEPTEMBER 7, 2017

SHEET 001 OF 001   DWG NO: COT STM–04



npca CERTIFIED PLANT ASTM C–913

©Park 2010

SPECIFICATIONS

CONCRETE : Class II concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H–20 Loading.

REINFORCEMENT: Grade 60 reinforced with steel rebar to conform to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48–76 Class 30.

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"Expect the Best"

TYPE-A GRATE INLET
MODEL COHTAI - SIZE 30"

SCALE	DWG. NO.	REV.
NONE	COHTAI–2	A
DATE 2010		

3-14   All drawings are avalible for download at www.park-usa.com in .dwg & .pdf formats

Revision / S&S   Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/13/26

Huckabee
www.huckabee–inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AH	CT

STORM SEWER DETAILS

VOLUME 01

Job No. 00788-002
Drawn By: CT
Date: 07.13.26
Sheet No. C10.1

S&S

11/18/2025 8:39:30 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\500 CAD\530 Sheets\C10.1 Storm Sewer Details.dwg   Last Plotted: Mon Jul 13, 2026 – 6:50pm   By: cteague

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1. PAVING

(FOR EXISTING OR PROPOSED HC PUBLIC R.O.W.)

CONCRETE

DESIGN THICKNESS OF PAVING (IN.)	STABILIZED SUBGRADE DEPTH (IN.)	DESIGN STRENGTH OF CONCRETE (PSI)	STEEL SPACING LONG. (IN.)	STEEL SPACING TRANS. (IN.)	REINFORCE STEEL SIZE (#4 MIN.)

ASPHALT

DESIGN SURFACE COURSE THICKNESS (IN.)	DESIGN SURFACE COURSE TYPE (MATERIAL)	DESIGN BASE COURSE THICKNESS (IN.)	DESIGN BASE COURSE TYPE (MATERIAL)	STABILIZED SUBGRADE DEPTH (IN.)	STABILIZED SUBGRADE TYPE (MATERIAL)

DRIVEWAYS (IN EXISTING OR PROPOSED HC PUBLIC R.O.W.)

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED INCLUDING WIDENING OR REPAVING EXISTING DRIVEWAYS

DRWY	WIDTH	MATERIAL	CULVERT? (Y/N)	CULVERT LENGTH	NEAREST CROSS-STREET	DISTANCE TO CROSS-STREET
1	26'	CONC	Y	81'	TIMKIN RD	125 LF
2	40'	CONC	Y	80'	E MAIN ST	758 LF
3						
4						
5						

II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET(S): ____

III. ADDITIONAL DRIVEWAY TABLE (AS APPLICABLE) APPEARS ON SHEET(S): ____

FIRE APPARATUS ACCESS ROAD

☐ REQUIRED AND SHOWN ON SHEET(S): ____

☒ NOT REQUIRED DUE TO: PROPOSED PUBLIC ROADS

CURBING

☒ STANDARD 6" CURBING PROPOSED

☐ 4" x 12" CURBING PROPOSED EXCEPT AT MEDIANS AND ISLANDS

2. TRAFFIC

I. MEDIAN CUTS

☒ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET(S): ____

☐ NO MEDIAN CUT OR RELOCATION IS PROPOSED

II. LEFT / RIGHT TURN LANE

☒ LEFT / RIGHT TURN LANE IS SHOWN ON SHEET(S): ____

☐ NO LEFT / RIGHT TURN LANE IS PROPOSED

III. TRAFFIC CONTROL PLAN

☒ TRAFFIC CONTROL SHOWN ON SHEET(S): ____

☐ NO WORK IN HC RIGHT OF WAY

IV. TRAFFIC SIGNAL

☐ EXISTING TRAFFIC SIGNAL DEVICES (BOXES AND LOOPS) SHOWN ON SHEET(S): ____

☒ NEW ☐ REBUILT ☐ MODIFIED TRAFFIC SIGNAL SHOWN ON SHEET(S): ____

☐ HC FIBER PRESENT

☐ NO TRAFFIC SIGNAL

V. TRAFFIC IMPACT ANALYSIS

☒ TRAFFIC IMPACT ANALYSIS APPROVED ON DATE: ____

PROJECT NO.: 2605110169

☐ NO TRAFFIC IMPACT ANALYSIS REQUIRED AND HC APPROVED

☐ NO NEW TRIPS GENERATED

VI. TRAFFIC VARIANCE

☐ TRAFFIC VARIANCE APPROVED ON DATE: ____

PROJECT NO.: ____

3. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION

A. ACREAGE: 71.3618 AC

B. ☐ SUBDIVISION: ____

☒ SURVEY & ABSTRACT: JESSE PRUETT SURVEY, ABSTRACT NO.629

C. ADJACENT ROADS: FM 2920 & MAHAFFEY RD.

II. PLATTING

A. SUBDIVISION PLAT (CHECK APPLICABLE)

☐ PROPOSED PLAT / REPLAT

☒ RECORDED PLAT / REPLAT

☐ EXEMPT FROM PLAT / REPLAT

B. STREETS PROPOSED

☐ PUBLIC

☐ PRIVATE

☐ PUBLIC & PRIVATE

☐ NONE

PLAT NAME: BJS MANUFACTURING CENTER REPLAT

NOTE: FINAL CPC101 REQUIRED FOR PLAN APPROVAL, RECORDED PLAT REQUIRED FOR FINAL INSPECTION.

III. JURISDICTIONS

☒ CITY OF TOMBALL

☐ ETJ, CITY OF HOUSTON

☐ ETJ, CITY OF ____

☐ NO ETJ

IV. HCAD ACCOUNT NOS. (ALL)

1335950010006

1335950010003

V. UNOBSTRUCTED VISIBILITY EASEMENT (U.V.E.)

☐ REQUIRED PER PLANNING COMMISSION / HC REGULATIONS SHOWN ON SHEET(S): ____

☐ NOT REQUIRED PER PLANNING COMMISSION / HC REGULATIONS

4. RESIDENTIAL / SUBDIVISION / STREET DEDICATION DRAINAGE

I. PROPOSED DRAINAGE SYSTEM TYPE

☐ STORM SEWER

☐ ROADSIDE DITCH

☐ LOW IMPACT DEVELOPMENT (LID)

II. DESIGN METHOD USED

☐ CITY OF HOUSTON ____ YEAR FREQUENCY

☐ OTHER: ____

III. DRAINAGE SYSTEM OUTFALLS DIRECTLY TO EXISTING

☐ DETENTION BASIN (APPROVED HC PROJECT NO.): ____

DETENTION BASIN MAINTAINED BY: ____

☐ HCFCD DRAINAGE DITCH UNIT NO.: ____

☐ HC ROADSIDE DITCH (ROAD NAME): ____

☐ HC STORM SEWER (APPROVED HC PROJECT NO.): ____

IV. HC OUTFALL CALCULATIONS

☐ ROADSIDE DITCH OUTFALL:

ALLOWABLE OUTFALL RATE: 0.0027 x ____ LF FRONTAGE = ____ (CFS)

PROPOSED OUTFALL RATE: ____ (CFS), CALCULATIONS PROVIDED ON SHEET(S): ____

☐ STORM SEWER OUTFALL

CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: ____ (CFS)

FROM DRAINAGE AREA MAP DATED: ____

PREPARED BY: ____

APPROVED HC PROJECT NO.: ____

ACTUAL OUTFALL RATE: ____ (CFS), CALCULATIONS PROVIDED ON SHEET(S): ____

V. DETENTION PROVIDED BY

☐ DETENTION BASIN IS PART THIS PLAN SET. SERVICE AREA MAP IS ON SHEET(S): ____

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED HC PROJECT NO.): ____

PROPOSED STORM SEWER IS SUBMERGED (AGREEMENT MUST BE PROVIDED).

STATIC W.S.E. @ OUTFALL IS ____.

5. COMMERCIAL / OTHER SITE DRAINAGE

I. PROPOSED DRAINAGE AREA

☐ NEW DEVELOPMENT AREA: ____

☐ RE-DEVELOPMENT AREA (NET NEW DEVELOPED AREA): ____

☐ LOW IMPACT DEVELOPMENT (LID)

II. DETENTION VOLUME

NEW AREA ____ X * = ____ ACRE FEET DETENTION REQUIRED

* ☐ .65 (CHANNEL)

* ☐ .75 (STM SWR)

* ☐ 1.00 (RD., DITCH)

* ☐ OTHER:

PROPOSED DETENTION VOLUME = ____ ACRE FEET

PROPOSED DETENTION VOLUME CALCULATIONS ARE SHOWN ON SHEET(S): ____

DETENTION VOLUME PROVIDED BY EXISTING DETENTION BASIN

APPROVED HC PROJECT NO.: ____

DETENTION BASIN SERVICE AREA MAP IS PROVIDED ON SHEET(S): ____

III. OUTFALL

OUTFALL TO ☐ HC ROADSIDE DITCH ☐ EXISTING HC STORM SEWER ☐ OTHER ____

☐ HC ROADSIDE DITCH OUTFALL:

PROPOSED OUTFALL RATE: ____ (CFS) CALCULATIONS PROVIDED ON SHEET(S): ____

ALLOWABLE OUTFALL RATE: 0.0027 x ____ LF FRONTAGE = ____ (CFS)

☐ HC STORM SEWER OUTFALL:

CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: ____ (CFS)

FROM DRAINAGE AREA MAP DATED: ____

PREPARED BY: ____

APPROVED HC PROJECT NO.: ____

ACTUAL OUTFALL RATE: ____ (CFS), CALCULATIONS PROVIDED ON SHEET(S): ____

IV. PUMPED DETENTION FACILITIES

VOLUME THAT GRAVITY FLOWS: ____ ACRE FEET

VOLUME THAT IS PUMPED: ____ ACRE FEET

ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: ____

PUMP SPECIFICATIONS AND AUTOMATIC SHUTOFF PLAN FOR ROADSIDE DITCH & STORM SEWER OUTFALLS APPEAR ON SHEET(S): ____

V. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: ____

RESTRICTOR PIPE SIZE: ____

ON SHEET(S): ____

6. OFFSITE SHEET FLOW (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMMODATIONS ARE SHOWN ON SHEET(S): ____

TOTAL ACREAGE = ____ (AC.)

TOTAL DISCHARGE = ____ (CFS)

☐ ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT.

☐ SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

7. STORMWATER QUALITY

I. SWPPP: CONSTRUCTION MEASURES (COMPLETE FOR ALL PROJECTS)

NUMBER OF ACRES DISTURBED: ____

☐ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S): ____

☐ DISTURBS <1AC. N/A

II. APPLICABILITY FOR PERMANENT FEATURES (COMPLETE FOR ALL PROJECTS)

EXEMPT NEW DEVELOPMENT:

☐ PROJECT IS ON A PARCEL, WITHIN A LARGER COMMON PLAN OF DEVELOPMENT OR SALE, LESS THAN 5 ACRES.
THIS EXEMPTION IS VERIFIED WITH THE PLAT AND/OR GENERAL PLAN ON THE PROPERTY.

EXEMPT REDEVELOPMENT:

☐ THE INCREASE IN THE TOTAL AMOUNT OF IMPERVIOUS SURFACE, CURRENT PROJECT AND ANY SINCE 10/01/2001, ON A PREVIOUSLY DEVELOPED 5 ACRE OR LARGER PARCEL, INDIVIDUALLY AND/OR CONTIGUOUSLY OWNED, IS LESS THAN 1 ACRE.

NEW IMPERVIOUS:

CURRENT PROJECT	PREVIOUS PROJECT(S) TOTAL	TOTAL (CURRENT+PREVIOUS)

EXEMPT GRANDFATHERED:

☐ DRAINAGE FROM THIS PROJECT OUTFALLS DIRECTLY INTO AN EXISTING AND APPROVED DRAINAGE SYSTEM PRIOR TO 10/01/2001 WITH NO NEW DETENTION REQUIREMENT. INCLUDE THE ORIGINAL DRAINAGE AREA MAP OF THAT SYSTEM FOR VERIFICATION.
D.A. MAP NAME: ____ DATE: ____ APPROVED HC PROJECT NO.: ____

III. GENERAL

☐ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: ____
(ONLY COMPLETE IF OUTSIDE OF UNINCORPORATED HARRIS COUNTY)

☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY:

☐ EXISTING SWQMP

PROJECT TITLE: ____

HC PROJECT NO.: ____ HC SWQ PERMIT NO.: ____

SWQ SERVICE AREA MAP INCLUDED ON SHEET(S): ____

☐ INDUSTRIAL PERMITTING (IAC AND SUPPORTING DOCUMENTATION MUST BE SUBMITTED)

PERMIT NO: ____

IF THE PROJECT IS NOT EXEMPT, OUTSIDE OF HARRIS COUNTY'S JURISDICTION, OR COVERED BY AN EXISTING SWQMP, A STORMWATER QUALITY MANAGEMENT PLAN IS REQUIRED.

IV. PERMANENT SWQ FEATURES (COMPLETE IF NOT EXEMPT)

☐ SITE PLAN ON SHEET(S): ____

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY, LID)
DETAILS AND CALCULATIONS APPEAR ON SHEET(S): ____

☐ BASIN STRUCTURE USED (WET, DRY, WETLANDS)
STRUCTURAL CONTROL IN BASIN: ____
DETAILS/CALCULATIONS ON SHEET(S): ____

☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: ____
DETAILS/CALCULATIONS ON SHEET(S): ____

☐ OTHER(S):
STRUCTURAL CONTROL(S): ____
DETAILS/CALCULATIONS ON SHEET(S): ____

8. FLOODPLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0230J

FIRM PANEL(S) DATE: JUNE 18, 2007

STATUS OF PROPERTY ON MAP

☒ ENTIRELY LOCATED IN UNSHADED ZONE X

☐ LOCATED PARTIALLY OR ENTIRELY IN ANY A ZONE OR SHADED ZONE X, DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO. ____) (1% BASE FLOOD LEVEL ____) (0.2% BASE FLOOD LEVEL ____)

☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO. ____ REVISED FLOODPLAIN IS SHOWN ON SHEET(S): ____

II. ELEVATION INFORMATION

BENCHMARK USED

☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK

☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)

DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT (2001 ADJ.) RM120165- ALUMINUM ROD ELEVATION = 140.69' (NAVD 88, 2001 ADJ.)

III. FLOODPLAIN DETERMINATION BASED ON GROUND ELEVATION

☒ PROPERTY LIES ENTIRELY ABOVE THE 1% BASE FLOOD LEVEL AND IN SHADED ZONE X

☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE 1% BASE FLOOD LEVEL

IV. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL)

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
BELOW 0.2% BASE FLOOD ELEVATION ____ (2001 ADJ.) ____ CUBIC YARDS

B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
BELOW 0.2% BASE FLOOD ELEVATION ____ (2001 ADJ.) ____ CUBIC YARDS

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET(S): ____

9. WATER AND WASTEWATER

I. COMMERCIAL PROJECTS

DOES THE PROPERTY HAVE UTILITIES?

☐ PROPOSED ☐ EXISTING ☐ NO

CHECK APPLICABLE

☐ PUBLIC WATER & SANITARY

☐ PRIVATE WATER WELL & SEPTIC SYSTEM

☐ PUBLIC WATER & PRIVATE SEPTIC SYSTEM

☐ PRIVATE WATER WELL & PUBLIC SANITARY

☐ LETTER FROM THE DISTRICT / MUNICIPALITY AUTHORIZING MUNICIPALITY AUTHORIZING SERVICE & CONNECTION.
UTILITY DISTRICT / MUNICIPALITY NAME: ____

☐ PROPOSED OR EXISTING SEPTIC TANK(S) AND DISPOSAL AREA(S) SHOWN ON SHEET(S): ____

☐ ALL EXISTING AND PROPOSED UTILITIES ACCURATELY SHOWN & LABELED ON THE SITE PLANS.

NOTE: SEPTIC SYSTEMS REQUIRE HC WASTEWATER REVIEW

HC SEPTIC PERMIT/REQUEST NO. ____

NOTE: DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND PERMITTING BY THE UNDERGROUND FIRE LINE CONTRACTOR. CIVIL REVIEW DOES ***NOT*** REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SYSTEMS.

WASTEWATER TREATMENT PLANTS

HC WWTP REVIEW:

☐ NEW WWTP SITE OR REHAB / EXPANSION OF AN EXISTING WWTP SITE

☐ HARRIS COUNTY DOMESTIC WASTEWATER TREATMENT PLANT EXPRESS REVIEW SHEET ATTACHED AND COMPLETED ACCORDING TO INSTRUCTIONS

10. SIDEWALKS

☐ SIDEWALKS ARE PROPOSED IN THIS DEVELOPMENT

☐ NO SIDEWALKS ARE PROPOSED IN THIS DEVELOPMENT

11. LANDSCAPING

☐ COMMERCIAL BUILDING(S) PROPOSED AND LANDSCAPING SHOWN ON SHEET(S): ____

☐ NO COMMERCIAL BUILDING(S) PROPOSED

12. PERMITS REQUIRED

☐ STORM WATER QUALITY
☐ ORIGINAL ☐ AMENDMENT TO PERMIT NO.: ____

☐ SEPTIC (EXISTING) ☐ SEPTIC (PROPOSED)

☐ CIVIL SITE WORK (PHASE II PERMIT CLASS I (UNSHADED X ZONE))

☐ CIVIL SITE WORK (PHASE II PERMIT CLASS II (ALL OTHER ZONES))

☒ DRIVEWAY WITH CULVERT ☐ DRIVEWAY WITH CURB AND GUTTER

☐ BUILDING(S) IS A CRITICAL FACILITY

☐ BUILDING PERMITS (NO. OF BUILDINGS = ____)

☐ SUBDIVISION INFRASTRUCTURE PHASE II (NO. OF LOTS = ____)

☐ NOTICE OF DETENTION AFFIDAVIT REQUIRED

☐ MUD MAINTENANCE AGREEMENT REQUIRED

☐ STREET DEDICATION

WORK IN HARRIS COUNTY R.O.W.

☒ UTILITY WORK PROPOSED SANITARY

☒ TURN LANE PROPOSED LEFT TURN LANE

☐ OTHER CONSTRUCTION ____

VIOLATIONS

☐ EXISTING VIOLATIONS ON PROPERTY
VIOLATION NUMBER(S): ____

NOTES:

A PERMIT IS REQUIRED FOR EACH SCOPE OF WORK ON SITE.
A R.O.W. NOTIFICATION IS REQUIRED FOR EACH SCOPE OF WORK IN HC OR HCFCD R.O.W.

BENCHMARK REQUIREMENTS FOR PROPOSED BRIDGES AND OR NEW RESIDENTIAL SUBDIVISIONS

When the County Engineer has determined that a new benchmark will be required to be established for the proposed project, the developer shall be required to install a benchmark per section 8.0, part 2 of the Harris County Infrastructure Regulations.

Is a new Benchmark required for this project? (*to be determined by Harris County*) [_] yes [_] no

If a new Benchmark is required, the proposed benchmark information is shown on sheet(s): ____

FOR PROJECTS LOCATED IN ANY FLOODPLAIN

Development constructed or placed in accordance with these plans will comply with all provisions of the Regulations of Harris County, Texas for Floodplain Management.

No net fill is allowed in the flood plain and no fill is allowed in the floodway.

FOUNDATION NOTES: (*Applies to only buildings or building additions requiring a class II permit*)

All water heaters, furnaces, air conditioning units, electrical distribution panels, and any other mechanical or electrical equipment must be elevated in accordance with Section 4.05 of Harris County Floodplain regulations.

Any electrical circuit serving a light switch or outlet located below the base (100-year) flood elevation shall be dropped from above and be on a separate breaker.

All materials used below the (100-year) base flood elevation are on approved FEMA Technical Bulletin 2-08 as Class 5 water-resistant, and approved in accordance with FEMA Technical Bulletin 1-08 for foundation openings.

Critical facilities located in the 0.2% or 500yr floodplain or 1% or 100yr floodplain shall have the lowest floor elevated to 3 feet or more above the 0.2% flood elevation, or 24 inches above the crown of the adjacent road, which ever results in a higher elevation.

Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters.

Access routes elevated to or above the level of the base flood shall be provided to all critical facilities to the extent possible.

A completed as-built certificate must be submitted after the structure is complete and before it is occupied.

The County Engineer's Office will post a final inspection notice on the structure once all requirements have been met.

No fill may be used to elevate structures in the 1% or 100yr flood plain. Structures may be constructed on an open foundation, such as piers, or on continuous foundation walls with properly sized and located openings. All foundations are required to be designed by a registered professional engineer.

All structures shall be designed to withstand a three second gust basic wind speed of 120mph.

*Completed ***Elevation Certificates** to be submitted: one at permitting, a second after the slab is poured or sub-floor is installed and before the framing starts, and a third is required once construction is finished. *(PER CURRENT FIRM PANEL)*

HARRIS COUNTY OFFICE OF THE COUNTY ENGINEER - PERMIT OFFICE NOTE:

THE PERMIT MANAGER SIGNATURE REPRESENTS THE FOLLOWING:

- THE COMPLETION OF REVIEW OF THESE PLANS
- INTERPOSE NO OBJECTION TO THE PROPOSED DESIGN ON PRIVATE PROPERTY
- APPROVAL OF WORK IN HARRIS COUNTY MAINTAINED RIGHT OF WAY
- APPROVAL OF WORK IN PROPOSED HARRIS COUNTY RIGHT OF WAY THAT IS TO BE ACCEPTED BY THE COUNTY

HCOCE SIGNATURE BLOCK:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, SARA KAROUNI, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE. I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS IN THEIR ENTIRETY ARE DESIGNED PER THE HARRIS COUNTY ENGINEERING STANDARDS, REGULATIONS, AND GUIDELINES UNLESS PROVIDED A VARIANCE BY THE COUNTY ENGINEER OR HIS DESIGNEE. SHOULD IT BE DEEMED BY HCED STAFF, THAT THE PLANS DO NOT MEET THE COUNTY'S STANDARDS, REGULATIONS AND GUIDELINES AND DID NOT RECEIVE AN APPROVED VARIANCE, THE APPROVAL OF SAID PLANS BECOMES NULL AND VOID AND THE DESIGN PLANS MUST BE CORRECTED AT NO CHARGE TO THE COUNTY.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 01 THRU 21

SIGNATURE: Sara Karouni DATE: 7/15/26

STATE OF TEXAS — SARA KAROUNI — 145244 — LICENSED PROFESSIONAL ENGINEER — SEAL — 7/15/26

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY.

REV. NO.	DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	HC APPROVED DATE	HC INITIAL

HC PROJECT NO. ____ HCFCD PROJECT NO. ____ SHEET NUMBER 02 OF 21

HARRIS COUNTY
OFFICE OF THE COUNTY ENGINEER
REVIEW SHEET

VERSION 21.0 FEBRUARY 20, 2025

Date: 07/13/2026

Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Huckabee
www.huckabee-inc.com
800.687.1229

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AG, MH	AG

VOLUME 01

Job No. 00788-002-01

Drawn By: AG

Date: 07.15.26

Sheet No. C11.1

S&S

11/18/2025 9:39:39 AM

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00600-0441_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\02 - HCERS.dwg Last Plotted: Wed Jul 15, 2026 - 5:16pm By: agarcia

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1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
☐ 1 ☐ 2 ☐ 3 ☒ 4

B. KEY MAP: 289E

C. ADDRESS: 11211 FM 2920 RD (#1) TOMBALL , TX 77375

II. LEGAL DESCRIPTION

A. ACREAGE: 71.3618 AC

B. ☐ SUBDIVISION: _____

☒ SURVEY & ABSTRACT: JESSE PRUETT SURVEY ABSTRACT NO.629

C. ADJACENT ROADS: FM 2920 & MAHAFFEY RD.

III. PLATTING

A. SUBDIVISION PLAT
☐ PROPOSED PLAT / REPLAT
☒ RECORDED PLAT / REPLAT

PLAT NAME: BJS MANUFACTURING CENTER REPLAT

B. STREETS PROPOSED
☐ PUBLIC
☐ PRIVATE
☐ PUBLIC & PRIVATE
☐ NONE

IV. JURISDICTIONS

☒ CITY OF TOMBALL
☐ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF _____
☐ NO ETJ
☐ UTILITY DISTRICT (NAME)_____

V. HCAD ACCOUNT NOS. (ALL)

1335950010006
1335950010003

2. SITE DETENTION DRAINAGE

I. PROPOSED DRAINAGE AREA

☐ NEW DEVELOPMENT AREA: _____
☒ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): 10.56
☐ LOW IMPACT DEVELOPMENT (LID)
METHOD/DESCRIPTION _____

II. METHODOLOGY

HCFCD PCPM DETENTION METHOD USED:
☒ METHOD 1 (LESS THAN 20 ACRES)
☐ METHOD 2 (20 ACRES TO 640 ACRES)
☐ METHOD 3 (GREATER THAN 640 ACRES)
☐ OTHER _____

III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
☐ .65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.) _____
☒ .75, EXISTING STORM SEWER (OWNER & OPERATOR) HARRIS COUNTY
☐ 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME) _____
☐ OTHER (OWNER & OPERATOR) _____

IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFCD PCPM SUMMARY TABLE SEE SHEET _____ OF THESE PLANS.

DETENTION BASIN SERVICE AREA		acres	
STORM EVENT	50% EXCEEDANCE (2-YEAR)	10% EXCEEDANCE (10-YEAR)	1% EXCEEDANCE (100-YEAR)
MAXIMUM ALLOWABLE OUTFLOW (PRE-DEVELOPMENT PEAK FLOW)			
MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN)			
LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE			
DESIGN WATER SURFACE ELEVATION			
MINIMUM STORAGE REQUIRED (ac-ft)			
DETENTION STORAGE PROVIDED (ac-ft)			
STORAGE RATE PROVIDED (ac-ft/ac)			
OUTFLOW VELOCITY INTO CHANNEL (ft/sec)			
DRAIN TIME - 1% ONLY (hours)			
EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)			

B. DETENTION BASIN TO BE MAINTAINED BY _____
C. DETENTION SERVICE AREA MAP ON SHEET _____
D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = _____ ACFT _____ % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = _____ FT/SEC
DRAIN TIME FOR BASIN = _____ HOURS BASED ON _____HEAD CONDITIONS

V. DETENTION PROVIDED IN OTHER PLANS:

HCFCD PROJECT No. _____ DATE SIGNED BY HCFCD: _____
PLAN TITLE _____
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET _____
ENGINEERING FIRM _____
DETENTION BASIN MAINTAINED BY: _____

VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: _____
RESTRICTOR PIPE SIZE: _____
RESTRICTOR PLATE DIMENSION: _____

VII. DETENTION PROVIDED BY

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.): _____

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET ____ OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED _____.

TOTAL ACREAGE = ____
TOTAL DISCHARGE = ____

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

☐ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) _____
☒ DISTURBS <1AC. N/A

*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)

EXEMPT REDEVELOPMENT:
☐ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Port A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:
☒ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: CITY OF TOMBALL
☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE: _____
HARRIS COUNTY PROJECT No _____ & SWQ PERMIT No.

STORMWATER QUALITY MANAGEMENT PLAN:
☐ SITE PLAN ON SHEET(S)

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONSAPPEAR ON SHEET(S)_____
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
☐ OTHER(S): _____

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0230J
FIRM PANEL(S) DATE: JUNE 18, 2007
STATUS OF PROPERTY ON MAP
☒ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET____

ELEVATION INFORMATION
BENCHMARK USED
☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT ***(2001 ADJ.)*** RM120165- ALUMINUM ROD ELEVATION = 140.69' (NAVD 88, 2001 ADJ.)

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

☒ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY
(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) ____ CUBIC YARDS ____
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN
BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) ____ CUBIC YARDS ____
INCLUDING CALCULATIONS)
C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET ____

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFCD ROW

A. BOND/NOTIFICATION INFORMATION
☐ HCFCD WATERSHED _____
☐ HCFCD UNIT No. _____
☐ NUMBER OF OUTFALLS _____
☐ UTILITY CROSSING
☐ ROADWAY BRIDGE/CULVERT CROSSING
☐ FILL ACTIVITY
☐ REHABILITATION OF CHANNEL
☐ MAINTENANCE
☐ TEMPORARY CROSSING
☐ TRAIL (LENGTH) _____
☐ OTHER _____
COST OF WORK IN HCFCD ROW _____

II. USACE ENVIRONMENTAL PERMIT

☐ US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S) _____
☐ US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
☐ OTHER
☐ NO PERMITS REQUIRED
EXPLAIN: _____

III. REFERENCE / BASIS OF DETERMINATION

☐ ENVIRONMENTAL CONSULTANT REPORT
BY _____
REPORT TITLE _____
REPORT DATE _____
☐ OTHER _____

NOTES:
I. – III. REQUIRED ON PROJECTS WITH WORK IN A HCFCD CHANNEL. PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFCD STANDARD NOTES: SEE SHEET _____ OF THESE PLANS.

V. HCFCD STANDARD DETAILS: SEE SHEET _____ OF THESE PLANS.

VI. HCFCD ACCESS PLAN: SEE SHEET _____ OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS: _____
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFCD POLICY, CRITERIA, & PROCEDURE MANUAL (i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)

6. REPORTS/AGREEMENTS

I. HCFCD ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE _____
HCFCD PROJECT #_____
ENGINEERING FIRM _____
REPORT ACCEPTANCE DATE _____

GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE _____
HCFCD PROJECT #_____
ENGINEERING FIRM _____
REPORT ACCEPTANCE DATE _____

HCFCD APPROVED VARIANCE
DESCRIPTION OF VARIANCE _____
DOCUMENT ID #_____
VARIANCE ACCEPTANCE DATE _____

II. AGREEMENT TYPE & No.:

☐ INTERLOCAL (ILA): _____
☐ HCFCD MAINTENANCE _____
☐ TURF ESTABLISHMENT _____
☐ OTHER _____

HCFCD SIGNATURE BLOCK

PROJECT NAME: TOMBALL ISD HUFSMITH - KOHRVILLE RD IMPROVEMENTS SANITARY SEWER & LEFT TURN LANE

ADDRESS: _____

WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:

HARRIS COUNTY FLOOD CONTROL DISTRICT

INTERPOSE NO OBJECTION
BY_____
FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY
APPROVED:
BY_____
FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY
APPROVED:
BY_____
FOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY
NO REVIEW REQUIRED:
BY_____
FINAL PERMITTING BY OTHERS

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, SARA KAROUNI , A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 01 THRU 21.

SARA KAROUNI 7/15/26
SIGNATURE DATE

SEAL
STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/15/26

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C.F.C.D APPROVED DATE

HARRIS COUNTY FLOOD CONTROL PROJECT NO.

SHEET NUMBER 03 OF 21

HARRIS COUNTY
FLOOD CONTROL DISTRICT
REVIEW SHEET

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Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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GENERAL CONSTRUCTION NOTES

1. ALL PROPOSED CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS, CODES AND SPECIFICATION OF HARRIS COUNTY AND CITY OF HOUSTON. WHERE CONFLICT EXIST THE MORE STRINGENT REQUIREMENT SHALL BE ENFORCED.
2. CONTRACTOR SHALL VERIFY ALL EXISTING BENCHMARKS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. IF NO VERIFICATION IS CONDUCTED CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING "STANDARD CONSTRUCTION SPECIFICATIONS" WITH LATEST ADDENDA AND AMENDMENTS THERETO, WITH NO COST TO THE PUBLIC.
4. EXISTING UTILITY INFORMATION SHOWN IS NOT GUARANTEED TO BE ACCURATE AND ALL INCLUSIVE. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES AND OTHER FACILITIES PRIOR TO CONSTRUCTION. ANY CONFLICT OR DISCREPANCY DISCOVERED MUST BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION.
5. THE CONTRACTOR SHALL NOTIFY HARRIS COUNTY ENGINEERING DEPARTMENT, CENTERPOINT ENERGY AND ALL OTHER APPLICABLE AGENCIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. NOTIFICATIONS SHALL BE FOLLOWED WITH A LETTER, COPIES OF WHICH SHALL BE SENT TO THE ENGINEER.
6. THE CONTRACTOR, ON BEHALF OF THE OWNER, IS TO OBTAIN ALL NECESSARY PERMITS REQUIRED BY THE CITY OF HOUSTON OR HARRIS COUNTY, PRIOR TO STARTING CONSTRUCTION.
7. GUIDELINES SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAG MEN, SIGNAGE, STRIPING, AND WARNING DEVICES, ETC... DURING CONSTRUCTION -- BOTH DAY AND NIGHT.
8. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES, AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR THE MATERIALS AND EQUIPMENT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL MATERIALS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. ANY DEFECTIVE MATERIAL INCORPORATED INTO THE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THERE SHALL BE NO PAYMENT MADE FOR STORED MATERIAL.
10. ALL PIPE AND REINFORCEMENT STEEL SHALL BE KEPT FREE OF DIRT AND OTHER DEBRIS. ANY DAMAGE TO THE COATING OF THE VARIOUS MATERIALS MUST BE REPAIRED.
11. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE FINAL DRAFT OF STORMWATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES AS PREPARED BY HARRIS COUNTY/HCFCD, AND THE CITY OF HOUSTON ALL IN COMLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
12. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
13. CONTRACTOR IS TO MAINTAIN A CLEAN PROJECT AREA, FREE FROM WORKMAN TRASH AND REFUSE, AT ALL TIMES.
14. THE CONTRACTOR IS REQUIRED TO FOLLOW ALL APPLICABLE OSHA RULES AND REGULATIONS. TRENCH SAFETY SHALL BE DONE IN ACCORDANCE WITH OSHA STANDARDS.
15. ALL GEOTECHNICAL REPORTS (IF ANY) FOR THIS PROJECT ARE AVAILABLE FOR REFERENCE AT THE OFFICE OF THE ENGINEER.
16. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES, I.E. THE PROPERTY, EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO THE CONSTRUCTION. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
17. PER HARRIS COUNTY, CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.

WATERLINE CONSTRUCTION NOTES

1. WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING.
2. 4" THRU 12" WATER LINES SHALL BE P.V.C. CLASS 150, DR-18, AWWA C-900. SMALLER THAN 4" WATER LINE SHALL BE PVC SCH 40 AS PER ASTM D1785 OR SEAMLESS COPPER TUBING TYPE "K" AS PER ASTM B88.
3. ALL WATERLINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATION C-651 AND THEN FLUSHED BEFORE BEING PLACED INTO SERVICE. AT LEAST ONE WATER SAMPLE PER 1000 FEET OF FINISHED LINE MUST BE COLLECTED AND SUBMITTED FOR BACTERIOLOGICAL ANALYSIS TO A LABORATORY CERTIFIED BY THE TEXAS DEPARTMENT OF HEALTH AND MUST MEET DEPARTMENT OF HEALTH AND CITY OF HOUSTON REQUIREMENTS PRIOR TO PLACING LINES INTO SERVICE.
4. HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH AWWA C-600, SECTION STANDARDS FOR A DURATION OF NOT LESS THAN TWO HOURS. LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE OR ANY PART THEREOF, TO MAINTAIN PRESSURE WITHIN 5 PSI OF THE SPECIFIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED. THE TEST PRESSURE SHALL BE EITHER A MINIMUM OF 150 PSIG OR 1.5 TIMES THE MAXIMUM DESIGN PRESSURE, WHICHEVER IS LARGER. THE MAXIMUM LEAKAGE SHALL BE CALCULATED USING THE FORMULA AS FOLLOWS:

$$L = (S)(D)(P^{1/2})/133,200$$

WHERE L = ALLOWABLE LEAKAGE IN GAL./HR.
S = LENGTH OF PIPE TESTED IN FEET
D = INSIDE DIAMETER OF PIPE IN INCHES
P = PRESSURE IN POUNDS PER SQUARE INCH (GAUGE)

5. 2,500 PSI CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL UNDERGROUND TEES BENDS AND LATERALS. THEY SHALL BE BUILT AS PER THE DETAILS PROVIDED TO PREVENT PIPE MOVEMENT.
6. ALL ABOVE GROUND DUCTILE IRON PIPE CONNECTIONS SHALL BE FLANGED. UNDERGROUND DUCTILE IRON PIPE CONNECTIONS SHALL BE BOLTLESS AND PUSH-ON AFTER THE FIRST FLANGED FITTING BELOW GRADE UNLESS NOTED OTHERWISE ON THE PLANS.
7. ALL FLANGES BELOW GRADE SHALL HAVE STAINLESS STEEL BOLTS AND NUTS AND SHALL BE INSULATED.
8. ALL WATER VALVES SHALL OPEN COUNTER CLOCKWISE.ALL WATER VALVES SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C-500 AND SHALL BE OF THE RESILIENT SEAT TYPE.
9. ALL BELOW GRADE VALVES SHALL BE GASKETED, HUB-END GATE VALVES WITH A CAST IRON BOX, EXCEPT WHERE FLANGES ARE CALLED OUT ON THE PLANS.
10. ALL WATER LINES TO HAVE 4' MINIMUM COVER TO FINISHED GRADE AND MINIMUM 12" CLEARANCE TO OTHER UTILITIES AT CROSSING UNLESS OTHERWISE NOTED ON PLANS. ALL WATER LINE INSTALLED OVER 8' DEEP SHALL UTILIZE RESTRAINED JOINT FITTINGS
11. MAINTAIN MINIMUM 9-FOOT HORIZONTAL CLEARANCE BETWEEN OUTSIDE OF SANITARY SEWER MANHOLE AND WATERLINE AND IN SEPARATE TRENCHES.
12. SANITARY PRECAUTIONS MUST BE TAKEN DURING WATERLINE CONSTRUCTION, PER AWWA STANDARDS. PRECAUTIONS INCLUDE KEEPING THE PIPE CLEAN AND CAPPING OR OTHERWISE EFFECTIVELY COVERING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FORM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
13. CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 2 FEET CLEARANCE AT THE STORM SEWER AND WATER LINE CROSSINGS AND SANITARY SEWER AND WATER LINE CROSSINGS, THE WATER LINE SHALL BE LOCATED AT A HIGHER LEVEL THAN THE SANITARY SEWER WHENEVER POSSIBLE.
14. ALL WATER LINE FITTINGS SHALL BE DUCTILE IRON COMPACT FITTINGS PER AWWA 153, UNLESS OTHERWISE NOTED.
15. THE CENTER OF FIRE HYDRANTS ARE TO BE LOCATED 3'-0" BEHIND THE BACK OF CURBS UNLESS OTHERWISE SHOWN. THE STEAMER NOZZLE SHALL BE A MINIMUM OF 18 (AND A MAXIMUM OF 30) INCHES ABOVE FINISHED GRADE, AND SHALL FACE THE STREET PAVEMENT UNLESS OTHERWISE SHOWN. ALL FIRE HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH THE CITY OF HOUSTON STANDARDS.

PAVING CONSTRUCTION NOTES

1. CONTRACTOR SHALL OBTAIN ENGINEERS OR OWNERS APPROVAL OF GRADES PRIOR TO PLACEMENT OF ANY PAVEMENT. IF APPROVAL IS NOT OBTAINED CONTRACTOR SHALL BE RESPONSIBLE FOR PAVEMENT PLACED.
2. ALL TEMPORARY AND PERMANENT SIGNAGE MUST COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MOST RECENT EDITION WITH REVISIONS.
3. ALL PAVING WIDTHS, CURB RADII, AND CURB ALIGNMENT SHOWN INDICATE FACE OF CURB. T.C. INDICATES TOP OF CURB. T.P. INDICATES TOP OF PAVEMENT ELEVATIONS.
4. THE CONTRACTOR SHALL PROTECT ALL UTILITIES, SIDEWALKS, PAVEMENT, ETC. AND SHALL REPAIR OR REPLACE AT HIS EXPENSE ANY FACILITIES DAMAGED DURING PAVING OR GRADING OPERATIONS.
5. DRIVEWAY CONNECTIONS IN COUNTY STREET RIGHT-OF-WAY SHALL HAVE COMPLY WITH HARRIS COUNTY DRIVEWAY DETAILS ON THESE PLANS.
6. AREAS TO BE FILLED SHALL BE SCARIFIED AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY (+3% OF OPTIMUM MOISTURE) PER ASTM D-698 TO A DEPTH OF 4" PRIOR TO FILL PLACEMENT. FILL MATERIAL SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS (MEASURED LOOSE) AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY (+ 3% OF OPTIMUM MOISTURE) PER ASTM D-698. FILL SHALL BE CLEAN EARTH AND BE FREE FROM TRASH, VEGETATION AND LARGE STONES. TEST REPORTS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT.
7. NECESSARY TESTING OF SUBGRADE AND PAVEMENT TO PROVE THAT THESE ITEMS MEET REQUIREMENTS SHALL BE DONE BY A COMMERCIAL TESTING LABORATORY ENGAGED BY THE CONTRACTOR.
8. WHERE PROPOSED PAVEMENT IS TO MEET EXISTING PAVEMENT, THE EXISTING REBAR OR DOWELS SHALL BE CLEANED AND TIED INTO THE PROPOSED PAVEMENT, USING A MINIMUM OF 20 BAR DIAMETERS LAPS. WHERE PROPOSED CONCRETE ENDS AT A CONSTRUCTION JOINT OR EXPANSION JOINT, THE REBAR SHALL BE EXTENDED A MINIMUM LENGTH OF 30 BAR DIAMETERS, COATED WITH ASPHALT AND WRAPPED WITH BURLAP.
9. ALL CONCRETE PAVEMENT SHALL BE OF SPECIFIED THICKNESS SHOWN. ALL CONCRETE SHALL BE A 5 SACK MIX WITH A MINIMUM 500 P.S.I. FLEXURAL STRENGTH AT 7 DAYS AND A MINIMUM 3500 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
10. ALL CUL-DE-SAC ISLANDS AND MEDIANS SHALL HAVE STANDARD 6"CONCRETE CURBS.
11. SIDEWALKS SHALL BE BUILT IN ACCORDANCE WITH HARRIS COUNTY DESIGN STANDARDS. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS, IN CONFORMANCE WITH THE GOVERNOR'S OFFICE OF TRAFFIC SAFETY MEMORANDUM DATED MAY 6, 1976 (HIGHWAY SAFETY ACT, 1973, SEC 288). AMERICANS WITH DISABILITIES ACT (ADA) AND TEXAS ACCESSIBILITY STANDARDS (TAS) SHALL BE COMPLIED WITH IN ALL SIDEWALK CONSTRUCTION.
12. CONCRETE WASH-OUT AREAS ARE TO BE PROVIDED BY THE CONTRACTOR AT A LOCATION ACCEPTABLE TO THE OWNER.UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO PERMIT CONCRETE TRUCKS TO WASH AT ANY AREA OTHER THAN THAT DESIGNATED.
13. STREET NAME SIGNS SHALL BE BUILT IN ACCORDANCE WITH CITY OF HOUSTON REQUIREMENTS AND SPECIFICATIONS, AND BEAR STREET NAMES AS PER RECORDED PLAT.
14. A DOUBLE-REFLECTORIZED BLUE TRAFFIC MARKER SHALL BE PLACED ON A ONE FOOT OFFSET OF THE PAVEMENT CENTERLINE AT ALL FIRE HYDRANT LOCATIONS BY THE CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A MARKER PLACED ON EACH STREET. THERE WILL BE NO SEPARATE PAYMENT FOR THESE MARKERS.

STORM SEWER CONSTRUCTION NOTES

1. ALL STORM SEWERS SHALL BE EITHER REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, CLASS III WITH RUBBER GASKET JOINTS PER ASTM C-443, OR HIGH DENSITY POLYETHYLENE PIPE (SMOOTH INTERIOR) CONFORMING TO AASHTO M294 WITH ELASTOMERIC COMPOUND GASKET JOINTS PER ASTM D3212.
2. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
3. ALL STORM SEWER MANHOLES SHALL BE STANDARD CITY OF HOUSTON TYPE "C" MANHOLES UNLESS OTHERWISE NOTED ON PLANS AND MUST INCLUDE THE WORDS "STORM SEWER".
4. ALL INLETS SHALL BE CITY OF HOUSTON TYPE B-B UNLESS OTHERWISE NOTED ON ALL THE PLANS. DEPTH OF INLETS SHALL BE INCREASED BEGINNING AT Z'-6" AND AS NECESSARY TO ACCOMMODATE THE DIAMETER AND ANGLE OF THE EXIT PIPE.
5. ALL STORM SEWER PIPES AND INLET LEADS WITHIN PUBLIC R.O.W. SHALL BE 24-INCH AND LARGER R.C.P. (C-76, CLASS III).
6. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.
7. STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH HARRIS COUNTY STANDARD AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
8. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED AND FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
9. CONTRACTOR SHALL PROVIDE 18" MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
10. ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
11. ADJUST MANHOLE COVERS, INLETS, AND VALVE BOXES TO GRADE.
12. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO ENSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
14. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.
15. FLOW LINES OF CULVERTS IN ROW TO BE SET PER DIRECTION OF COUNTY PREICINCT ENGINEER.

SANITARY SEWER CONSTRUCTION NOTES

1. SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING.
2. 8" AND LARGER SANITARY SEWER PIPE AND FITTINGS TO BE SDR-26 P.V.C. PIPE MEETING ASTM SPECIFICATION D3034 WITH RUBBER GASKET JOINTS UNLESS OTHERWISE NOTED. 6" AND SMALLER SANITARY SEWER PIPE TO BE SCH. 40 P.V.C. PIPE.
3. NO CONNECTION SHALL BE MADE TO THE EXISTING SANITARY SEWER LINES UNTIL ALL PROPOSED SEWER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE CONTRACTOR CONNECTING TO ANY EXISTING SEWER LINES.
4. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPE, EXCEPT SERVICE LEADS. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THE TEST IS TO BE RUN USING A MANDREL HAVING AN OUTSIDE DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
5. SANITARY LINES CROSSING WATER LINES ARE TO BE GREEN P.V.C. CLASS 150, DR-18, AWWA C-900 AND MUST HAVE A FULL LENGTH JOINT (20' NOMINAL) CENTERED AT THE CROSSING WITH A MINIMUM SEPARATION DISTANCE OF 2 FEET.
6. ALL SEWER LINES (INCLUDING SERVICE LEADS) ENTERING A MANHOLE AT A FLOWLINE HIGHER THAN 24-INCHES ABOVE THE MANHOLE INVERT MUST BE PROVIDED WITH A DROP PIPE AND HAVE THE INVERT FILLETED.
7. ALL SANITARY SEWER MANHOLES SHALL BE PRE-CAST TYPE ONLY AND SHALL INCLUDE THE WORD "SANITARY" ON THE COVER AND SHALL INCLUDE THE WORDS "CITY OF HOUSTON" ON THE COVER.
8. INFILTRATION/EXFILTRATION TEST: EITHER OF THE FOLLOWING INFILTRATION/EXFILTRATION TESTS SHALL BE PERFORMED WITHIN THE SPECIFIED TOLERANCES ON ALL GRAVITY SEWERS.
   A. WATER TEST: TOTAL LEAKAGE SHALL NOT EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF 2 FEET.
   B. LOW -- PRESSURE AIR TEST: PERFORM TEST ACCORDING TO UNI-B-6-9 OR OTHER APPROPRIATE PROCEDURES. MINIMUM ALLOWABLE TIME FOR PRESSURE DRIP FROM 3.5 PSIG TO 2.5 PSIG SHALL BE AS FOLLOWS:
      8": 5.50 SECONDS OR 1.778SL(I) FOR TEST LENGTHS GREATER THEN 298'.
      10": 6.84 SECONDS OR 2.778SL(I) FOR TEST LENGTHS GREATER THAN 239'.
      12": 7.95 SECONDS OR 3.995(L) FOR TEST LENGTHS GREATER THAN 199'.
9. PRIVATE SAN. SWRS. ARE TO BE PRIVATELY OWNED, OPERATED AND MAINTAINED BY SERVICED PROPERTY OWNER.

PRIVATE UTILITY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR 713-945-8037 (7:00 AM TO 4:30 PM) FOR TYPES OF LINE LOCATIONS BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-2111 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN TO FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

WARNING: UNDERGROUND ELECTRICAL UTILITIES

THE CONTRACTOR SHALL CALL 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-245-4545, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- ALL PROPOSED FACILITIES SHALL MAINTAIN 12" CLEAR FROM ALL EXISTING UTILITIES.

CAUTION: AT&T TEXAS/SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY AT (713)614-1973 OR E-MAIL HIM AT KR7894@ATT.COM IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBT FACILITIES.

HARRIS COUNTY PUBLIC ENGINEERING DEPARTMENT

1. NO NET FILL IS ALLOWED IN THE FLOOD PLAIN AND NO FILL IS ALLOWED IN THE FLOODWAY.
2. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.
3. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY'S ROAD RIGHTS-OF-WAY.

   NOTE: "AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY ENGINEERING DEPARTMENT PERMIT OFFICE REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN HARRIS COUNTY RIGHT-OF-WAY. CONTACT HARRIS COUNTY PERMIT OFFICE (713-274-3931)

TRAFFIC NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. PER HARRIS COUNTY, GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
3. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:30 PM MONDAY THRU FRIDAY.
4. OFF DUTY POLICE OFFICERS/FLAGGERS ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
5. CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW. IF COVERING IS NOT FEASIBLE, USE TRANTEX FR 336 EFX 36" DELINEATOR OR APPROVED EQUAL WITH SHEETING AND BASE EPOXIED TO PAVEMENT NEXT TO EXCAVATION DURING NON-WORKING HOURS.
6. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
7. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT ALTERNATE PLANS* TO TRAFFIC SECTION OF HCPD FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.
   - THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.
8. IF THE PROJECT IS WITHIN 400 FEET FROM A SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL CONTACT HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, SIGNAL DIVISION, AT 713-881-3210 FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUC

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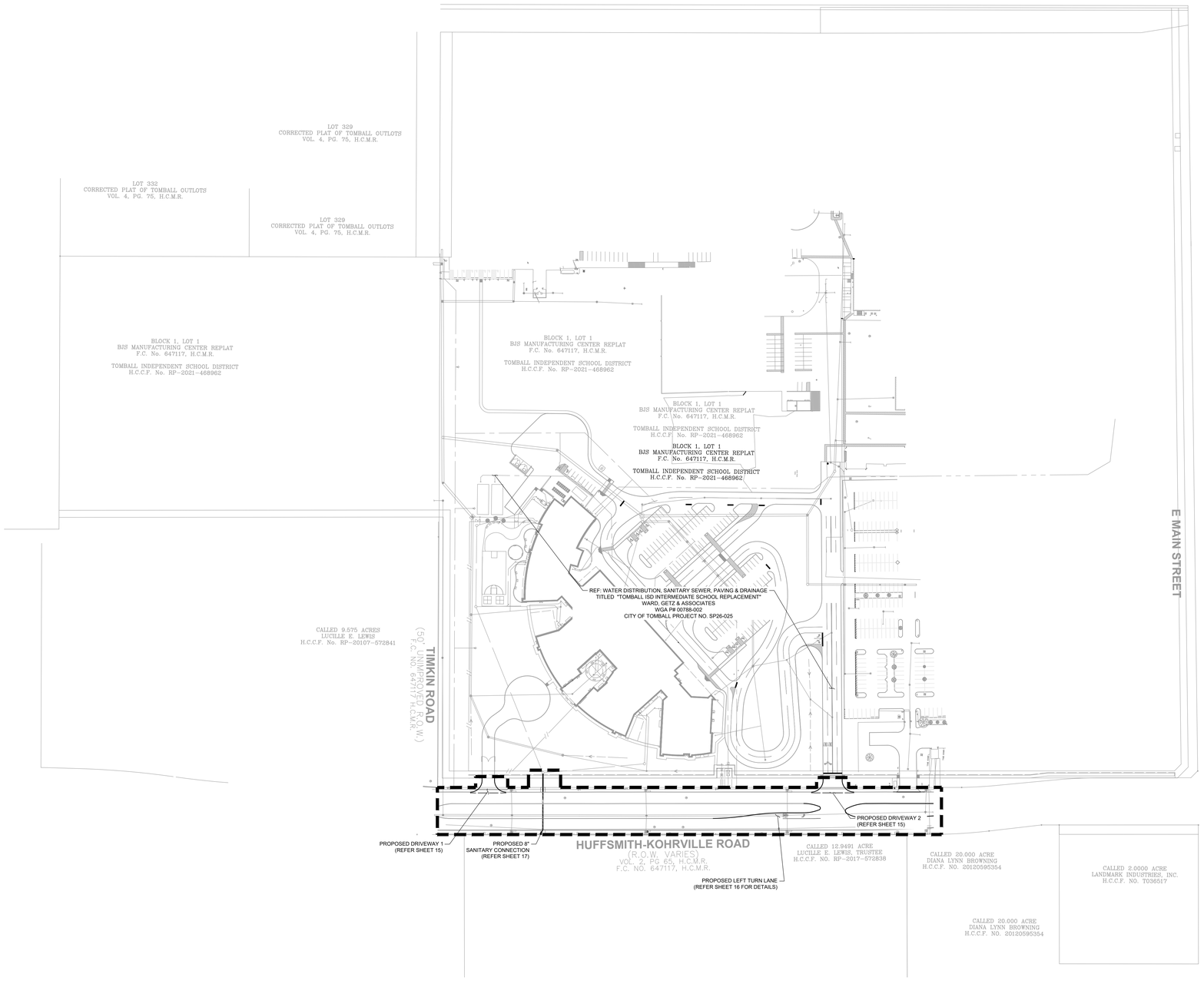

0 100 200
SCALE: 1" = 100'

OVERALL LAYOUT LEGEND:

○——○	PROPOSED STORM SEWER/MANHOLE
○—▭—▭	PROPOSED STORM SEWER/CURB INLET/ GRATE INLET
- - - -	LIMITS OF WORK

BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 22803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK 'B' ELEVATION - 174.74'

BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
TEMPORARY BENCHMARK 'C' ELEVATION - 176.71'

BOX XUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ±40' SOUTHWEST OF THE SOUTHWEST CORNER OF THE SOUTHEAST PARKING LOT.
TEMPORARY BENCHMARK 'D' ELEVATION - 177.49'

BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED ON THE NORTH SIDE OF THE DIESEL FUELING STATION.

FLOODPLAIN NOTE:

THIS SUBJECT TRACT LIES WITHIN UNSHADED ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOODPLAIN (1% ANNUAL FLOODPLAIN CHANCE) AS DELINEATED ON THE FLOOD INSURANCE MAP FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48201C0230L MAP REVISED JUNE 18TH, 2007.

WGA
TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900
4526 Research Forest, Suite 360 The Woodlands, Texas 77381 713.789.1900

SCALE	DESIGN	DRAWN
1" = 40'	AG, MH	AG

Revision / Date
S&S 07/13/2026

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
11/15/26
Sara Karouni

Huckabee
www.huckabee-inc.com
800.687.1229

OVERALL SITE PLAN
VOLUME 01

Job No.	Sheet No.
00788-002-01	C12.2
Drawn By: AG	
Date: 07.15.26	

S&S

11/19/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\12 – OVERALL SITE PLAN.dwg Last Plotted: Wed Jul 15, 2026 – 5:16pm By: agarcia

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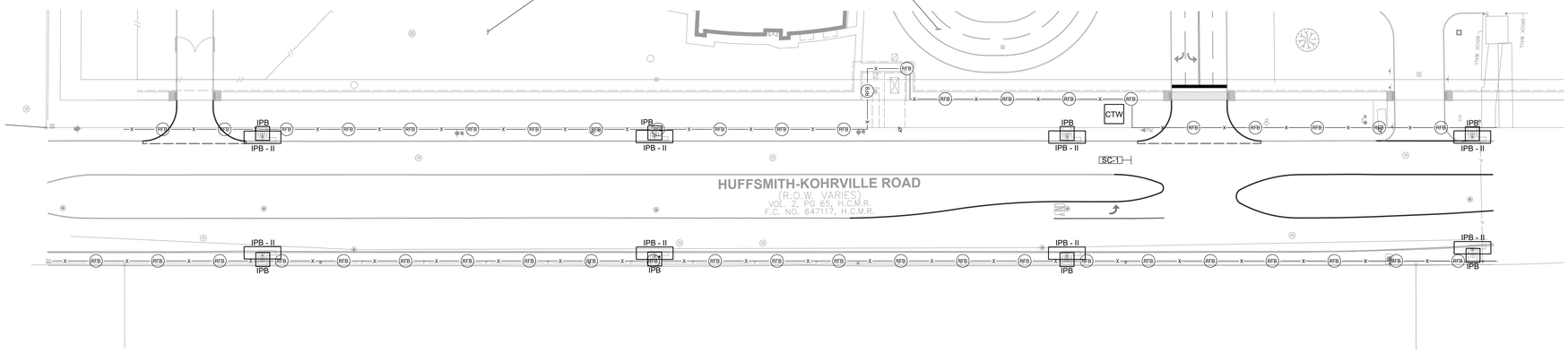

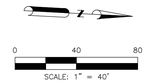

EROSION CONTROL SCHEDULE AND SEQUENCING

I. ROUGH GRADING
GRADING CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, AND STONE OVERFLOW STRUCTURES SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED.

II. UTILITY INSTALLATION
ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED.

III. PAVING
ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

IV. FINAL GRADING/SOIL
STABILIZATION: ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

SWPPP NOTE:

ANY OFF-SITE STAGING AREA UTILIZED BY THE OPERATOR OF THIS SITE MUST BE INCLUDED IN THE SWPPP NARRATIVE PLAN AND TO SWPPP SITE PLAN AS REQUIRED BY THE TPDES TEXAS GENERAL PERMIT TXR150000 (SECTION F). ANY SUCH AREA INCLUDED IN THE SWPPP WILL BE TREATED BY THE OPERATOR AS ANY OTHER PART OF THE CONSTRUCTION ACTIVITY FOR THE PURPOSES OF STORM WATER POLLUTION PREVENTION.

SWPPP LEGEND:

SC-1	STABILIZED CONSTRUCTION EXIT
RFB	REINFORCED FILTER FABRIC BARRIER
FF	FILTER FABRIC FENCE
IPB	INLET PROTECTION BARRIER (STAGE 1 & 2)
CTW	CONCRETE TRUCK WASHOUT AREA
IPB - II	INLET PROTECTION BARRIER TYPE II

BENCHMARKS:

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SCALE	DESIGN	DRAWN
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Date 07/13/2026
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STORM WATER POLLUTION PREVENTION PLANS
VOLUME 01

Job No.	Sheet No.
00788-002-01	C13.1
Drawn By: AG	
Date: 07.15.26	

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Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\13 - SWPPP.dwg Last Plotted: Wed Jul 15, 2026 - 5:17pm By: agarcia

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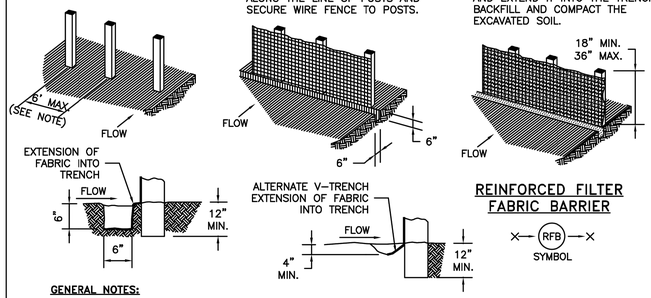
1. SET POSTS AT REQUIRED SPACING
2. EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE OF POSTS AND SECURE WIRE FENCE TO POSTS.
3. ATTACH FILTER FABRIC TO POSTS AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.

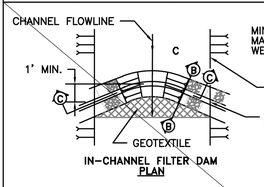


REINFORCED FILTER FABRIC BARRIER

RFB — SYMBOL

GENERAL NOTES:

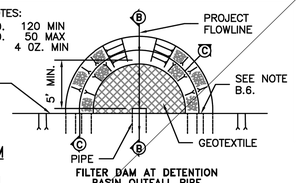
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



IN-CHANNEL FILTER DAM PLAN

GEOTEXTILE NOTES:

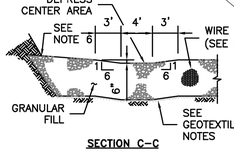
MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN



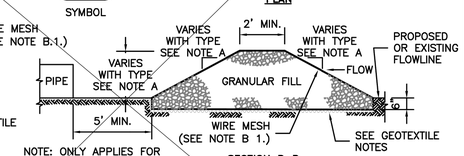
FILTER DAM AT DETENTION BASIN OUTFALL PIPE PLAN

FILTER DAM

RFD-TYPE — SYMBOL



SECTION C–C



NOTE: ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

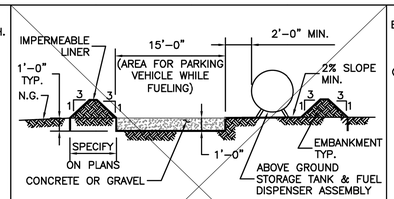
SECTION B–B

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT – 18–24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM)
   c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT – 18–36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT – 36–48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3–5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4–8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364–FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

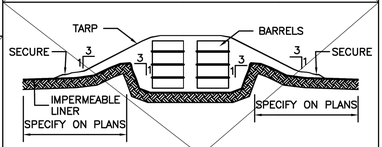


ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

TFA — SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.

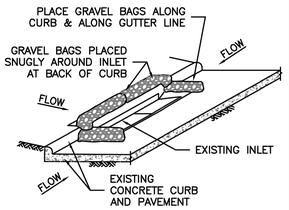


BARREL STORAGE AREA

BSA — SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.

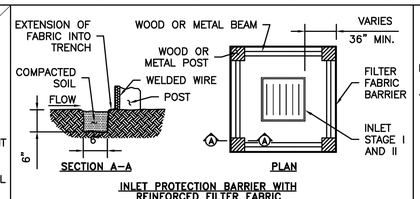


INLET PROTECTION BARRIERS FOR STAGE II INLETS

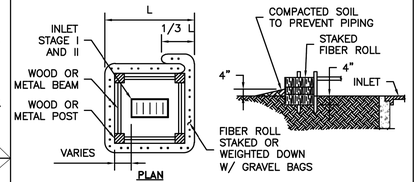
IPB–II — SYMBOL

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC



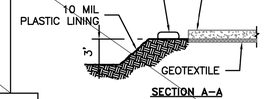
INLET PROTECTION BARRIER WITH FILTER ROLLS

GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

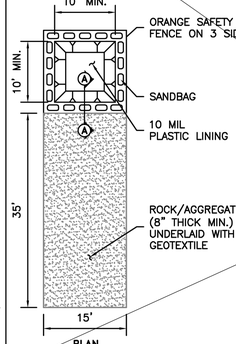
INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB — SYMBOL



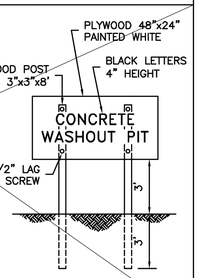
CONCRETE TRUCK WASHOUT AREA

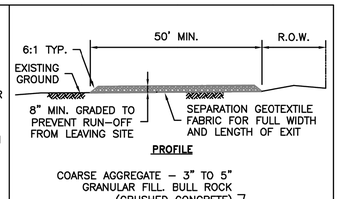
CTW — SYMBOL



GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN–SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.





STABILIZED CONSTRUCTION ACCESS

SC–1 — SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

NO.	REVISIONS	DATE	NAME
1			
2			
3			
4			
5			

HARRIS COUNTY ENGINEERING DEPARTMENT

FOR INTERIM REVIEW ONLY

DOCUMENT INCOMPLETE: NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ENGINEER: NAME
P.E. SERIAL No. NUMBER
DATE: / /

PROJECT TITLE:

SHEET DESCRIPTION: STORM WATER POLLUTION PREVENTION PLAN DETAILS

CIVIL STANDARD: SW3P

DRAWN BY: JDZ | CK'D BY: NR | SCALE: NONE | DATE: 8/15/17 | SHEET NO:

Date: 07/13/2026
Revision / S&S

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FOR
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SCALE	DESIGN	DRAWN
N.T.S.	AG, MH	AG

STORM WATER POLLUTION PREVENTION PLAN DETAILS VOLUME 01

Job No. 00788-002-01 | Drawn By: AG | Date: 07.15.26 | Sheet No. C13.2

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Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\14 – SWPPP DETAILS.dwg Last Plotted: Wed Jul 15, 2026 – 5:17pm By: agarcia

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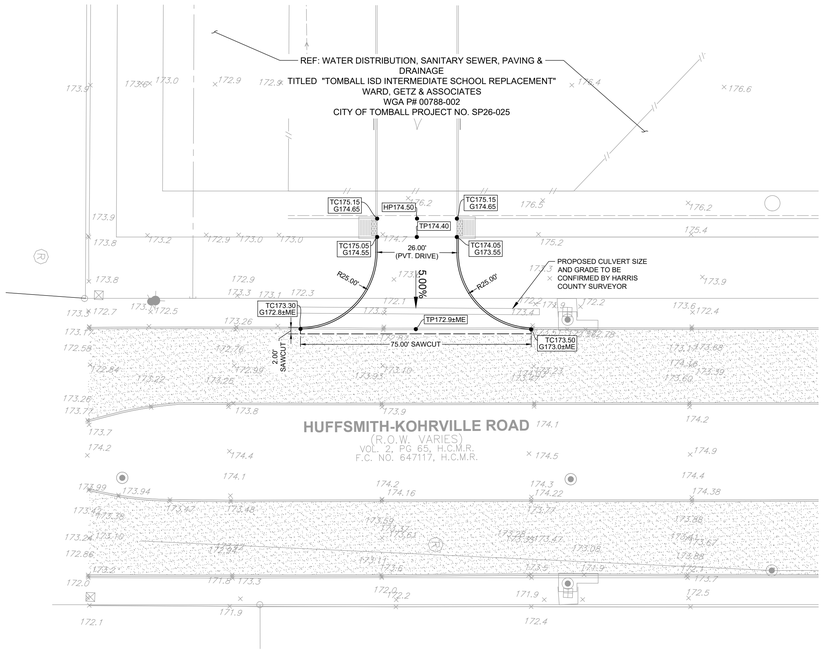
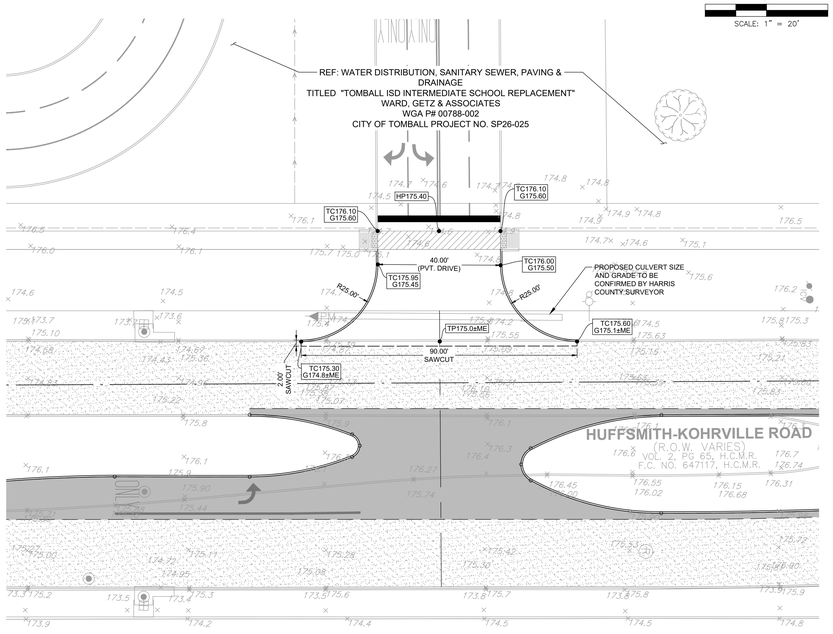


DRIVEWAY 1



DRIVEWAY 2

0 20 40
SCALE: 1" = 20'

LEGEND:

	EXISTING CONCRETE PAVEMENT
	PROPOSED CONCRETE PAVEMENT (MATCH EXISTING CONCRETE THICKNESS AND REINFORCING

PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND HARRIS COUNTY DESIGN STANDARD AS CURRENTLY AMMENDED

Appendix F

CONSTRUCTION NOTES FOR ESPLANADE OPENINGS AND TURN LANES

NO	DESCRIPTION OF ITEM
1	Esplanade noses at the crossover are to be bullet type, painted reflectorized yellow, in accordance with the Harris County Pavement Marking Detail and to be six inches (6") thick with surface colored black for concrete pavement and uncolored for asphalt pavement, a minimum of six feet (6') deep measured from the end of the median nose and the curbs are at least four feet (4') in width face to face.
2	The relocation of existing trees, landscaping, sprinkler systems, water meters, fire hydrants, manholes, and pipelines (if applicable) are to be re-installed as recommended by the Harris County Engineering Department – Permit Office and/or the Harris County Precinct (If located in Precinct 3, add note: **Contractor(s) to contact Precinct 3 Parks Administration Office @ (281-531-1592) two (2) weeks prior to construction for tree(s) and landscaping relocation.**
3	Existing reinforced concrete pavement is to be machine saw-cut 1-1/2 inches deep to expose a minimum of twenty-four (24) inches of reinforcing bars and place new reinforcing bars to match existing steel size and spacing and tie new reinforcing bars to existing reinforcing bars with eighteen (18) inch laps. Full depth saw-cut may be used as an alternative.
4	Reinforcing concrete pavement is to be a minimum eight (8) inches with a minimum of 5.0 sack cement per cubic yard, [4500 psi in twenty-eight (28) days]. Note: Depth of concrete to meet current requirements of depth of existing pavement whenever it is greater.
5	Asphalt turn lane to be minimum (2) inches H.M.A.C. with (10) inch base. Road widening's done on asphalt roadways for turn lanes must be overlaid full width of the roadway from beginning to ending transition.
6	Subgrade shall be a minimum of six (6) inches for asphalt and eight (8) inches for concrete, of a material as specified by the engineer and approved by Harris County, and compacted to ninety-five (95) percent standard proctor density (+/-) two (2) percent moisture. Cement stabilized sand, as prescribed by Harris County specs, may be used as an alternative.
7	Slope on proposed concrete left turn slots is to be a minimum of 1/8 inch per foot with crown at center of esplanade.
8	All sewers under or within one (1) foot of proposed or future pavement shall be backfilled with 1-1/2 sack cement stabilized sand to within one (1) foot of subgrade.
9	The contractor shall notify the Harris County Engineering Department – Permit Office twenty-four (24) hours in advance of commencing construction at (713) 274-3931 and written notification forty-eight (48) hours in advance of commencing construction for commercial and residential development.

Appendix F

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NO	DESCRIPTION OF ITEM
10	All pavement work will require an accredited lab certification for subgrade, concrete compressive strength, in place core. Asphalt work will require a sieve test, subgrade and base compaction results.
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12	Guidelines set for in the "Manual on Uniform Traffic Control Devices" shall be observed.
13	Include Harris County Drawing SD-1 as part of the construction plans.
14	Include Harris County Pavement Marking Detail as a part of the construction plans.
15	**NOTE:** "Notification(s) issued by Harris County Engineering Department - Permit Office required prior to construction of utilities or turn lanes within Harris County rights-of-way". Contact Harris County Permit Office at (713) 274-3931.
16	**OWNER OR OWNER'S AGENT** to obtain all permits and notification(s) required by Harris County, Texas prior to starting construction of utilities and/or culverts within Harris County road rights-of-way.

PLEASE ADD ALL NOTES CIRCLED IN RED TO THE CONSTRUCTION PLANS.

NOTES:

1. PROP. CURB LINE REPRESENTS FACE OF CURB. ALL STATION AND ELEVATION SHOTS ARE SHOWN TO FACE OF PROP. CURB.
2. CONTRACTOR TO ADJUST WATER VALVES WITHIN LIMITS OF CONSTRUCTION, AS NECESSARY.
3. CONTRACTOR TO RELOCATE ALL FIRE HYDRANTS 3' FROM BACK OF CURB, AS NECESSARY.

NOTE:

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2. SAW CUT AREA MUST BE TO THE EXISTING JOINTS
3. HARRIS COUNTY HAS FINAL DETERMINATION ON SAW CUT AREA

BENCHMARKS:

REFERENCE BENCHMARK PUBLISHED ELEVATION - 140.69'

RM120165 - ALUMINUM ROD WITH LOGO CAP STAMPED "120165" LOCATED ON THE WEST SIDE OF TUWA ROAD ±120' NORTH OF THE CENTERLINE OF THE DRIVEWAY FOR 23803 TUWA ROAD IN KEY MAP 289H IN THE WILLOW CREEK WATERSHED. (NAVD 88, 2001 ADJ.)

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BOX CUT ON "C1" INLET LOCATED ON THE EAST SIDE OF HUFSMITH-KOHRVILLE RAD ±1,175' SOUTH OF F.M. 2920 AND ±450' NORTH OF THE MOST EASTERLY SOUTHEAST CORNER OF THE SUBJECT TRACT.
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713.789.1900
4526 Research Forest, Suite 360
The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
N/A	AG, MH	AG

Date 07/13/2026
Revision / S&S

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED PROFESSIONAL ENGINEER
7/15/26

Huckabee
www.huckabee-inc.com
800.687.1229

PROPOSED DRIVEWAYS
VOLUME 01

Job No.	Sheet No.
00788-002-01	C14.1
Drawn By: AG	
Date: 07.15.26	

S&S

11/18/2025 8:38:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01, Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\15 - PLAN A.dwg Last Plotted: Wed Jul 15, 2026 - 5:17pm By: agarcia

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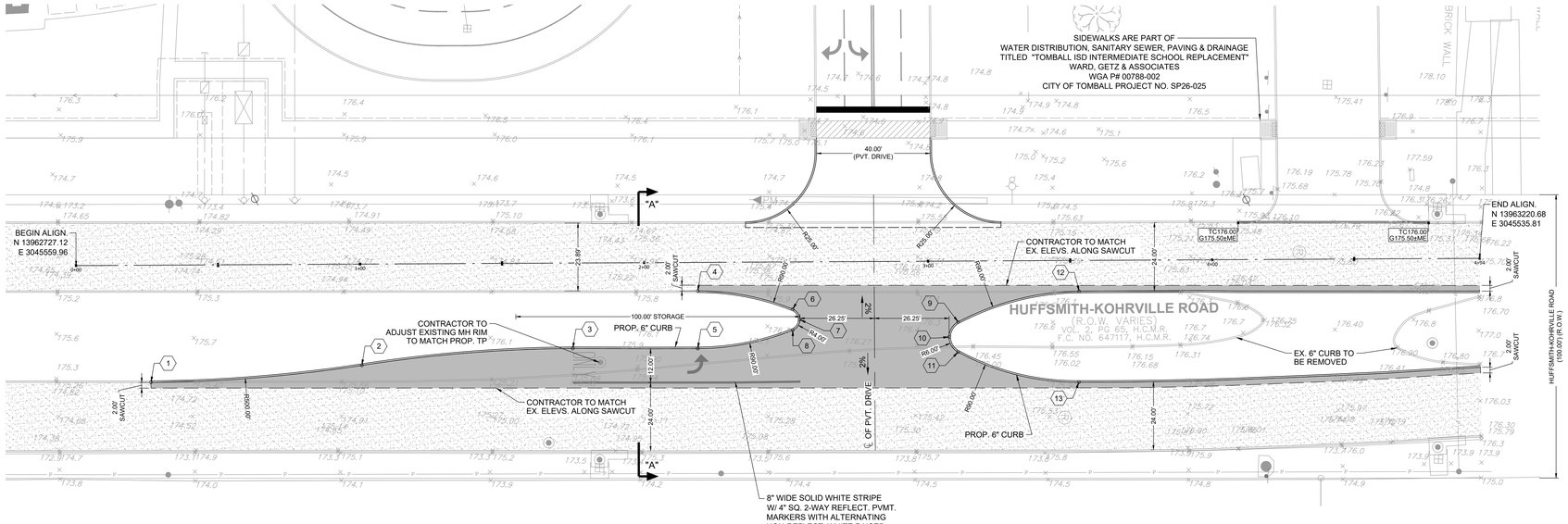

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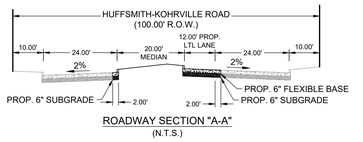

ROADWAY SECTION "A-A"
(N.T.S.)

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SPEED LIMIT 45

MEDIAN TC TABLE

No.	STATION	OFFSET	ELEVATION
1	0+26.15	41.29' RT	175.35±ME
2	1+00.45	35.65' RT	175.69
3	1+74.74	30.06 RT	176.06
4	2+18.83	10.09' RT	175.80±ME
5	2+18.74	30.35' RT	176.11
6	2+52.23	16.63' RT	176.04
7	2+54.72	20.36' RT	176.11
8	2+52.19	24.06' RT	176.18
9	3+10.43	21.46' RT	176.33
10	3+07.23	26.72' RT	176.37
11	3+10.35	32.03' RT	176.40
12	3+53.10	10.85' RT	176.16±ME
13	3+52.86	42.89' RT	176.30

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The Woodlands, Texas 77381
713.789.1900

SCALE	DESIGN	DRAWN
1" = 20'	AG, MH	AG

Date 07/13/2026
Revision / S&S

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
145244
LICENSED
PROFESSIONAL ENGINEER
7/15/26

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PROPOSED LEFT TURN LANE
VOLUME 01

Job No.	Sheet No.
00788-002-01	C15.1
Drawn By: AG	
Date: 07.15.26	

S&S

11/18/2025 5:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01, Tomball ISD IS Replacement_ARCH.rvt

Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\15 – PLAN A.dwg Last Plotted: Wed Jul 15, 2026 – 5:17pm By: agarcia

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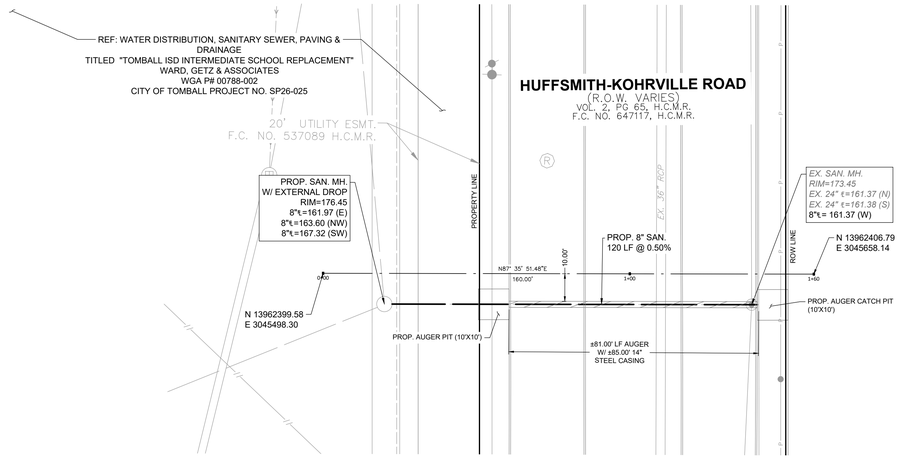
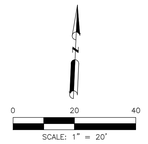
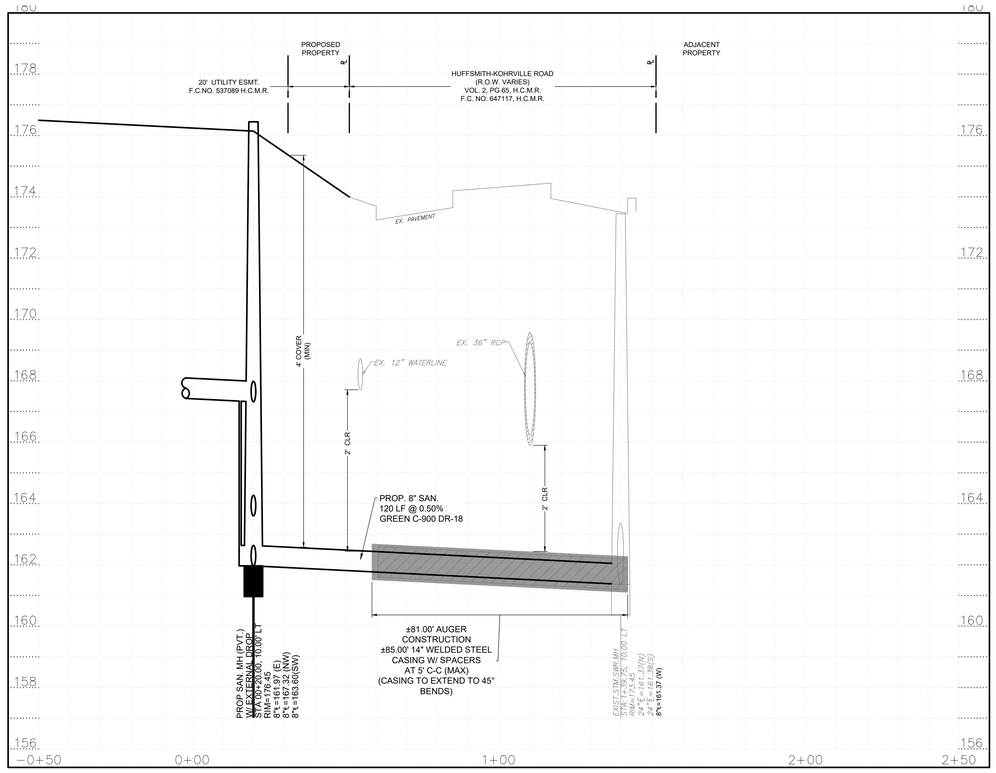




PROPOSED 8" SANITARY CONNECTION



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SCALE	DESIGN	DRAWN
1" = 20'	AG, MH	AG

Revision / Date
S&S 07/13/2026

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FOR
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TOMBALL, TEXAS

STATE OF TEXAS
SARA KAROUNI
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PLAN AND PROFILE - 8" SANITARY SEWER
VOLUME 01

Job No.	Sheet No.
00788-002-01	C16.1
Drawn By: AG	
Date: 07.15.26	

S&S

11/18/2025 8:39:39 AM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt
Drawing: Z:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\17 - SANITARY SEWER P & P.dwg Last Plotted: Wed Jul 15, 2026 - 5:18pm By: agarcia

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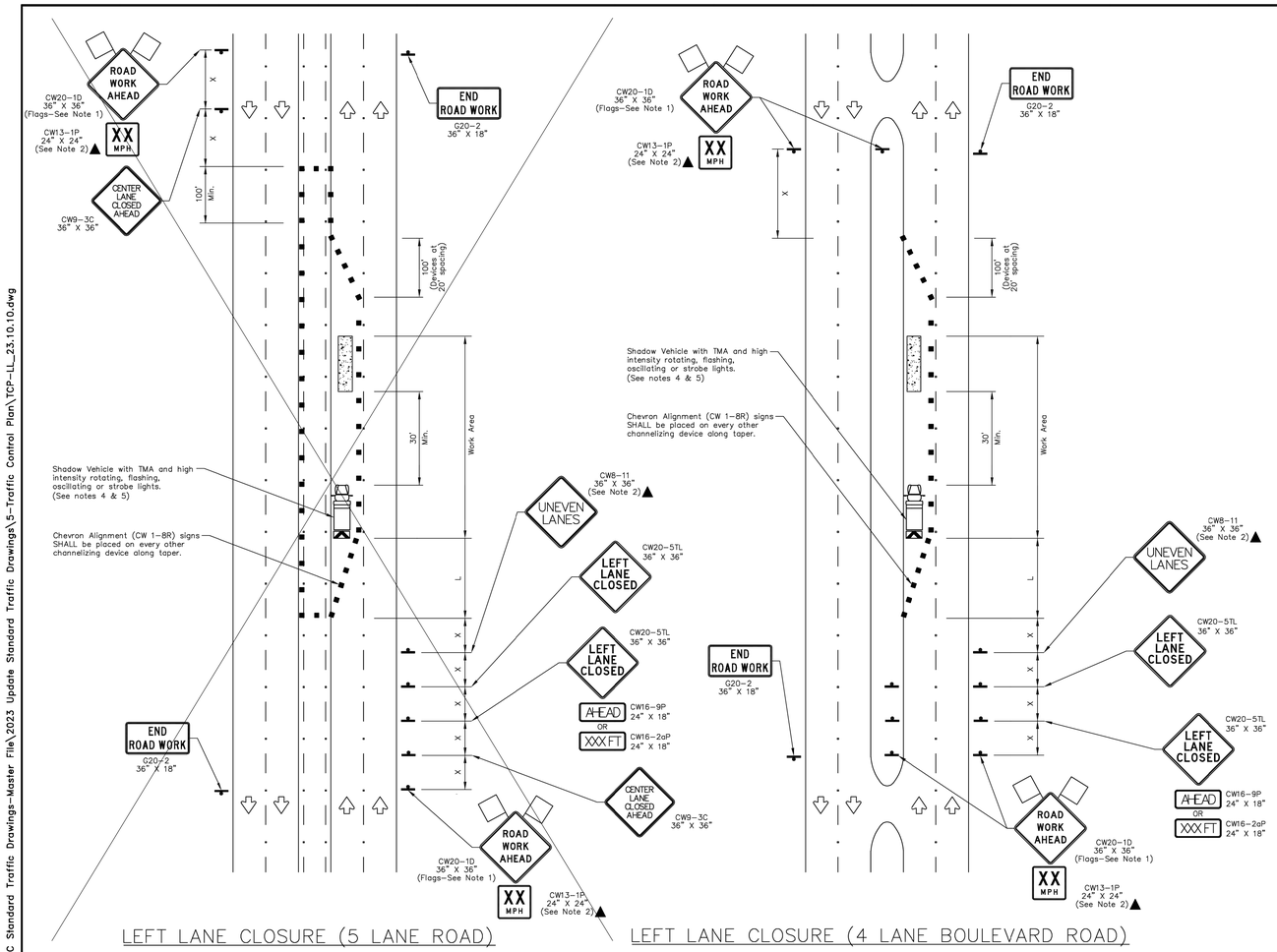

LEFT LANE CLOSURE (5 LANE ROAD)

LEFT LANE CLOSURE (4 LANE BOULEVARD ROAD)

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
HUFSMITH - KOHRVILLE RD	45	540'	45'	90'	320'	195'

LEGEND			
	Type 3 Barricade	■ ■	Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths "L" ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Flags attached to signs where shown are OPTIONAL.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD – Latest edition with revisions) during construction.
7. No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.
8. Off duty uniformed law enforcement officers/flaggers are required to direct traffic when applicable.
9. If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

NO.	REVISIONS	DATE	NAME
1			
2			
3			
4			
5			

HARRIS COUNTY ENGINEERING DEPARTMENT

FOR INTERIM REVIEW ONLY

DOCUMENT INCOMPLETE: NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ENGINEER: NAME
P.E. SERIAL No. NUMBER
DATE: / /

PROJECT TITLE:

SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (LEFT LANE CLOSURE)

TRAFFIC STANDARD: TCP-LL

DRAWN BY: BSH | CK'D BY: BSH | SCALE: NONE | DATE: 10/10/23 | SHEET NO: /

Date 07/13/2026
Revision / S&S

Project:
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TEXAS REGISTERED ENGINEERING FIRM F-9756
2500 Tanglewilde, Suite 120, Houston, Texas 77063, 713.789.1900
4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AG, MH	AG

HARRIS COUNTY TRAFFIC CONTROL PLAN VOLUME 01

Job No. 00788-002-01 | Sheet No. C17.1
Drawn By: AG
Date: 07.15.26

S&S

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Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

Drawing: J:\00788 (Huckabee)\002 Tomball Intermediate School Replacement\01 Public\500 CAD\530 Sheets\18 – HARRIS COUNTY TRAFFIC CONTROL PLAN.dwg Last Plotted: Wed Jul 15, 2026 – 5:18pm By: agarcia

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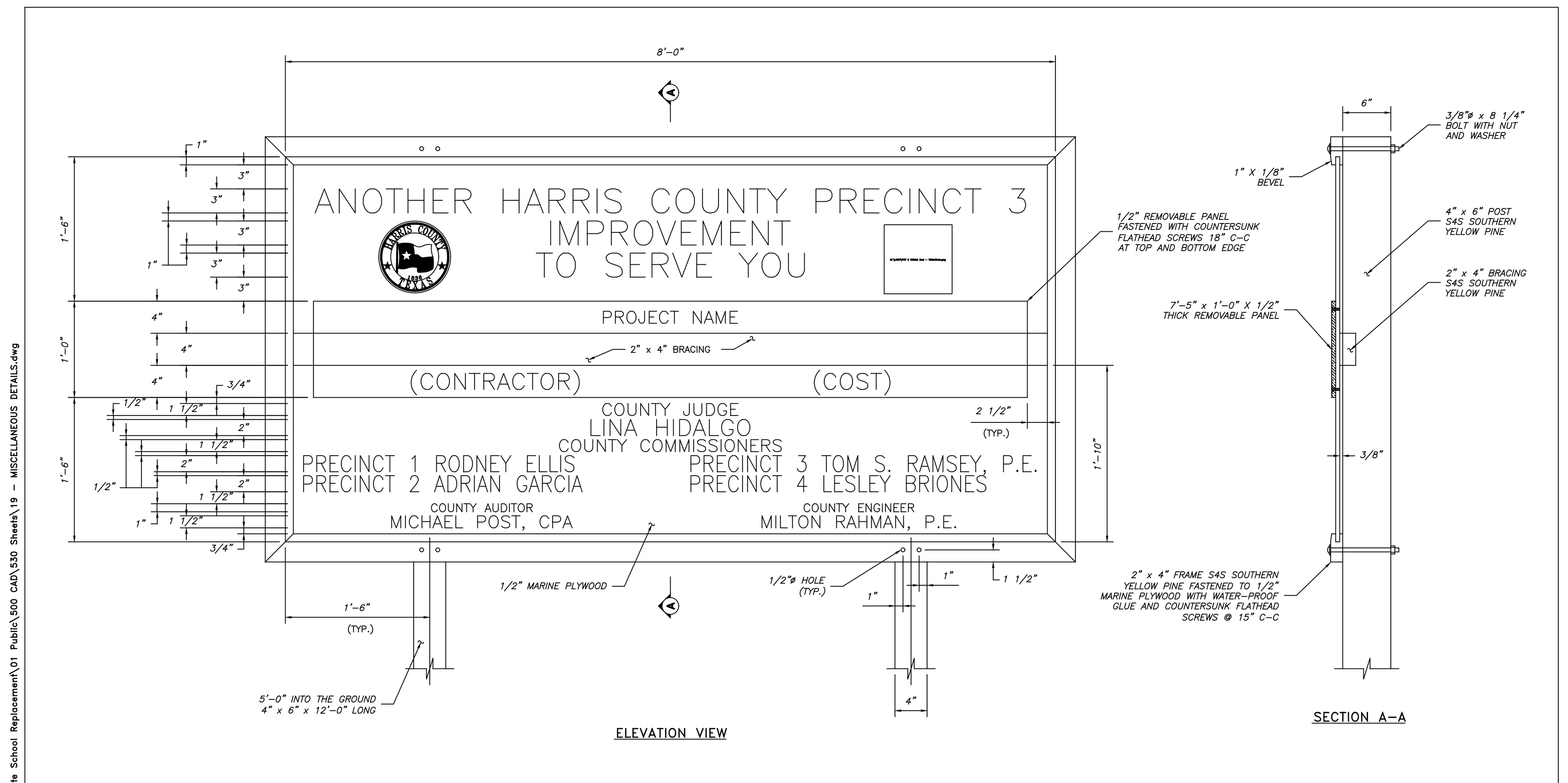

GENERAL NOTES:

1. THE SIGN SHALL HAVE BLACK LETTERS WITH WHITE BACKGROUND.
2. SIGN SHALL BE MOUNTED ON 4" x 6" POSTS AND LOCATED BY THE ENGINEER.
3. REMOVABLE PANEL SHALL BE 1/2" MARINE PLYWOOD.
4. ALL BOLTS, SCREWS, NAILS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
5. 4" x 6" POST SHALL BE WOLMANIZED OR PENTACHLOROPHENOL TREATED.
6. ALL WOOD SURFACES SHALL HAVE PRIME COAT AND TWO (2) COATS OF SHERWIN-WILLIAMS KEM-LUSTRA ENAMEL OR EQUAL.

HARRIS COUNTY ENGINEERING DEPARTMENT

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SHEET DESCRIPTION: PROJECT SIGN FOR PRECINCT 3 — CIVIL STANDARD PS-3 — DRAWN BY: SF — DATE: 02/0/24 — SCALE: 1" = 6"

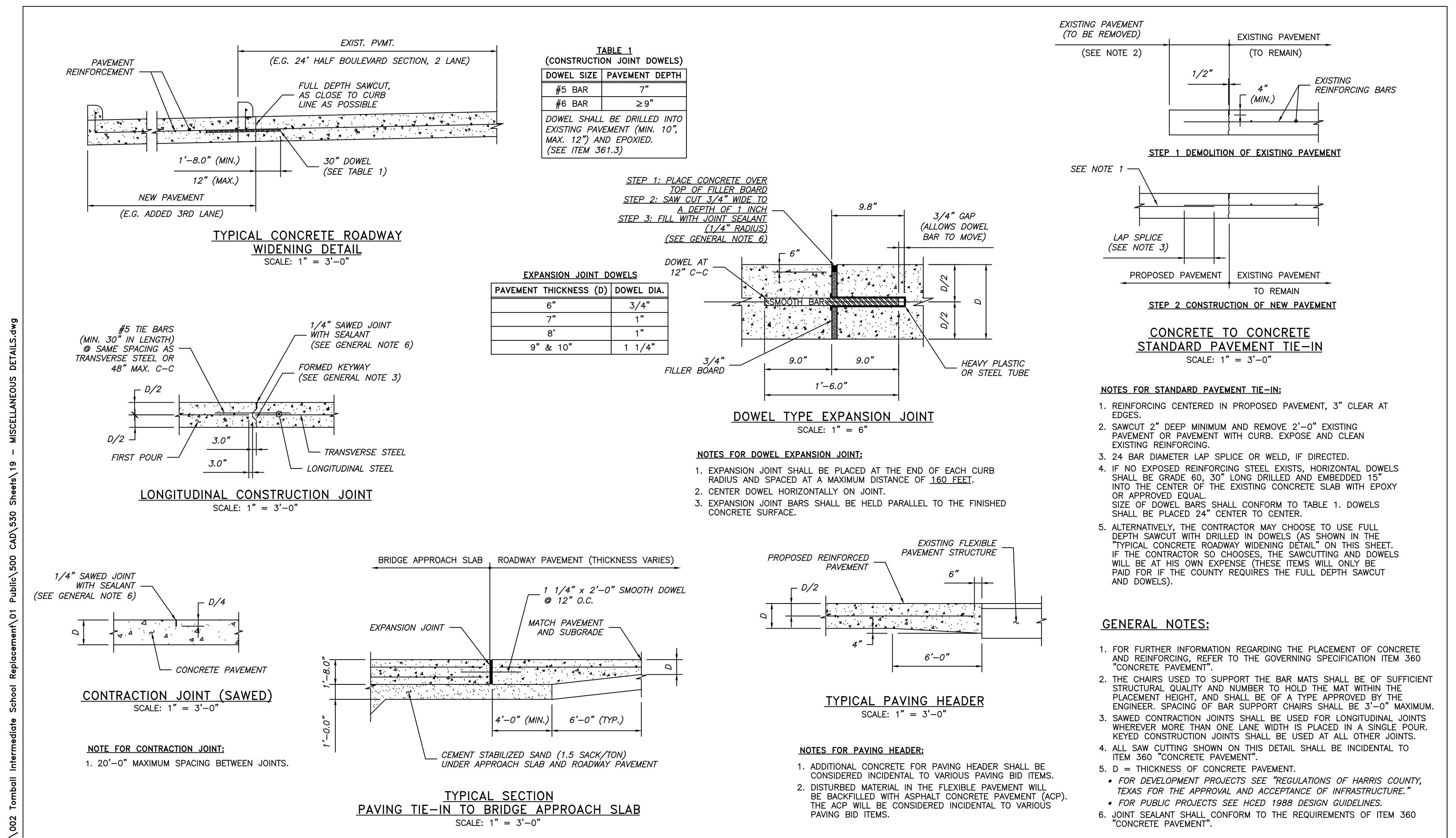


TABLE 1 (CONSTRUCTION JOINT DOWELS)

DOWEL SIZE	PAVEMENT DEPTH
#5 BAR	7"
#6 BAR	≥9"

DOWEL SHALL BE DRILLED INTO EXISTING PAVEMENT (MIN. 10", MAX. 12") AND EPOXIED. (SEE ITEM 361.3)

EXPANSION JOINT DOWELS

PAVEMENT THICKNESS (D)	DOWEL DIA.
6"	3/4"
7"	1"
8'	1"
9" & 10"	1 1/4"

STEP 1: PLACE CONCRETE OVER TOP OF FILLER BOARD
STEP 2: SAW CUT 3/4" WIDE TO A DEPTH OF 1 INCH
STEP 3: FILL WITH JOINT SEALANT (1/4" RADIUS) (SEE GENERAL NOTE 6)

NOTES FOR DOWEL EXPANSION JOINT:

1. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 160 FEET.
2. CENTER DOWEL HORIZONTALLY ON JOINT.
3. EXPANSION JOINT BARS SHALL BE HELD PARALLEL TO THE FINISHED CONCRETE SURFACE.

NOTE FOR CONTRACTION JOINT:

1. 20'-0" MAXIMUM SPACING BETWEEN JOINTS.

NOTES FOR PAVING HEADER:

1. ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
2. DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THE ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.

NOTES FOR STANDARD PAVEMENT TIE-IN:

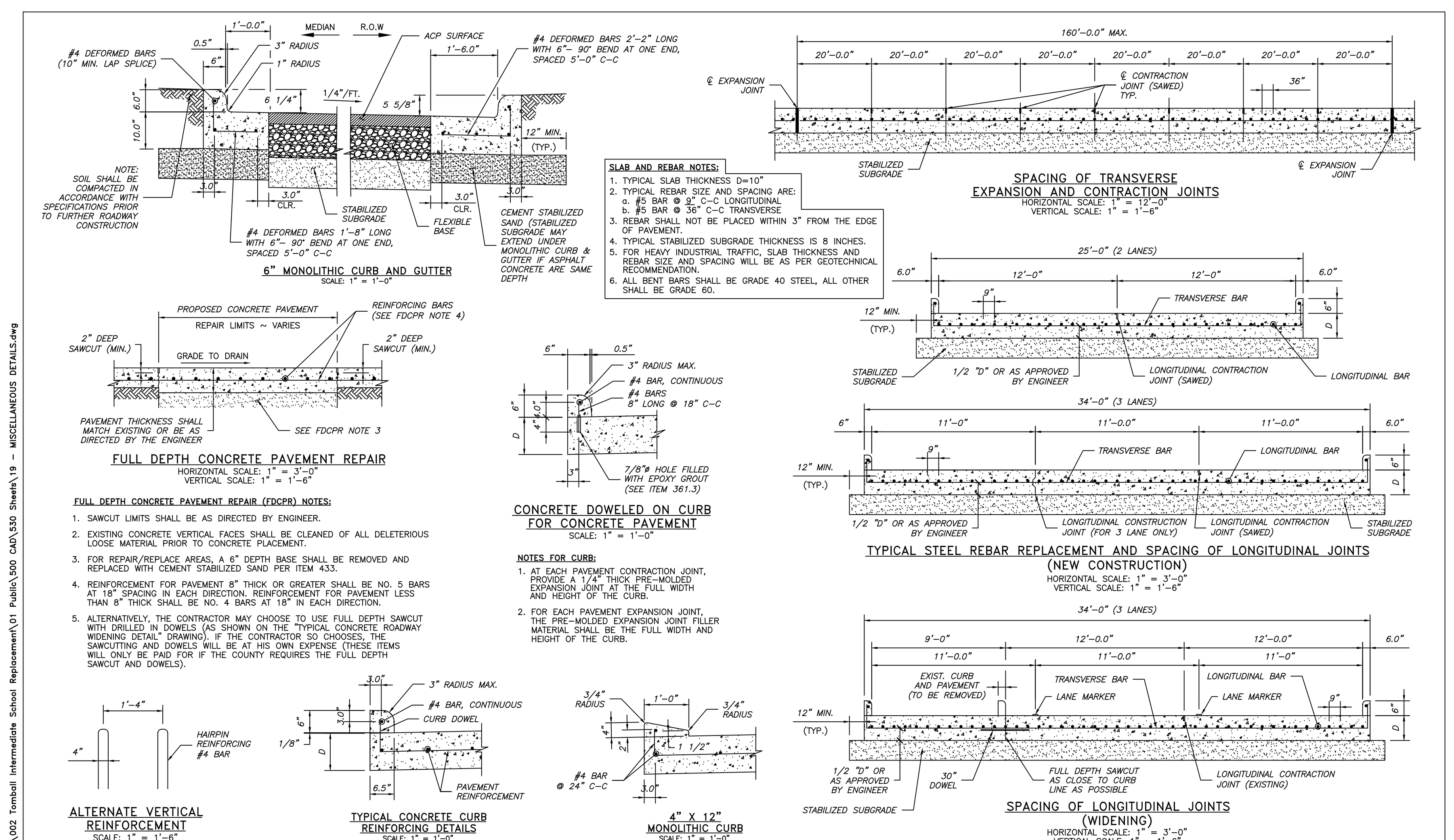
1. REINFORCING CENTERED IN PROPOSED PAVEMENT, 3" CLEAR AT EDGES.
2. SAWCUT 2" DEEP MINIMUM AND REMOVE 2'-0" EXISTING PAVEMENT OR PAVEMENT WITH CURB. EXPOSE AND CLEAN EXISTING REINFORCING.
3. 24 BAR DIAMETER LAP SPLICE OR WELD, IF DIRECTED.
4. IF NO EXPOSED REINFORCING STEEL EXISTS, HORIZONTAL DOWELS SHALL BE GRADE 60, 30" LONG DRILLED AND EMBEDDED 15" INTO THE CENTER OF THE EXISTING CONCRETE SLAB WITH EPOXY OR APPROVED EQUAL. SIZE OF DOWEL BARS SHALL CONFORM TO TABLE 1. DOWELS SHALL BE PLACED 24" CENTER TO CENTER.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN IN THE "TYPICAL CONCRETE ROADWAY WIDENING DETAIL" ON THIS SHEET. IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).

GENERAL NOTES:

1. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCING, REFER TO THE GOVERNING SPECIFICATION ITEM 360 "CONCRETE PAVEMENT".
2. THE CHAIRS USED TO SUPPORT THE BAR MATS SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT, AND SHALL BE OF A TYPE APPROVED BY THE ENGINEER. SPACING OF BAR SUPPORT CHAIRS SHALL BE 3'-0" MAXIMUM.
3. SAWED CONTRACTION JOINTS SHALL BE USED FOR LONGITUDINAL JOINTS WHEREVER MORE THAN ONE LANE WIDTH IS PLACED IN A SINGLE POUR. KEYED CONSTRUCTION JOINTS SHALL BE USED AT ALL OTHER JOINTS.
4. ALL SAW CUTTING SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO ITEM 360 "CONCRETE PAVEMENT".
5. D = THICKNESS OF CONCRETE PAVEMENT.
   - FOR DEVELOPMENT PROJECTS SEE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE."
   - FOR PUBLIC PROJECTS SEE HCED 1988 DESIGN GUIDELINES.
6. JOINT SEALANT SHALL CONFORM TO THE REQUIREMENTS OF ITEM 360 "CONCRETE PAVEMENT".

HARRIS COUNTY ENGINEERING DEPARTMENT

SHEET DESCRIPTION: CONCRETE PAVEMENT DETAILS PRECINCT 1 & 3 (1 OF 2) — CIVIL STANDARD CP-13 — DRAWN BY: JDZ — CK'D BY: PDG — DATE: 11/05/18 — SCALE: AS NOTED



SLAB AND REBAR NOTES:

1. TYPICAL SLAB THICKNESS D=10"
2. TYPICAL REBAR SIZE AND SPACING ARE:
   a. #5 BAR @ 9" C-C LONGITUDINAL
   b. #5 BAR @ 36" C-C TRANSVERSE
3. REBAR SHALL NOT BE PLACED WITHIN 3" FROM THE EDGE OF PAVEMENT.
4. TYPICAL STABILIZED SUBGRADE THICKNESS IS 8 INCHES.
5. FOR HEAVY INDUSTRIAL TRAFFIC, SLAB THICKNESS AND REBAR SIZE AND SPACING WILL BE AS PER GEOTECHNICAL RECOMMENDATION.
6. ALL BENT BARS SHALL BE GRADE 40 STEEL, ALL OTHER SHALL BE GRADE 60.

FULL DEPTH CONCRETE PAVEMENT REPAIR (FDCPR) NOTES:

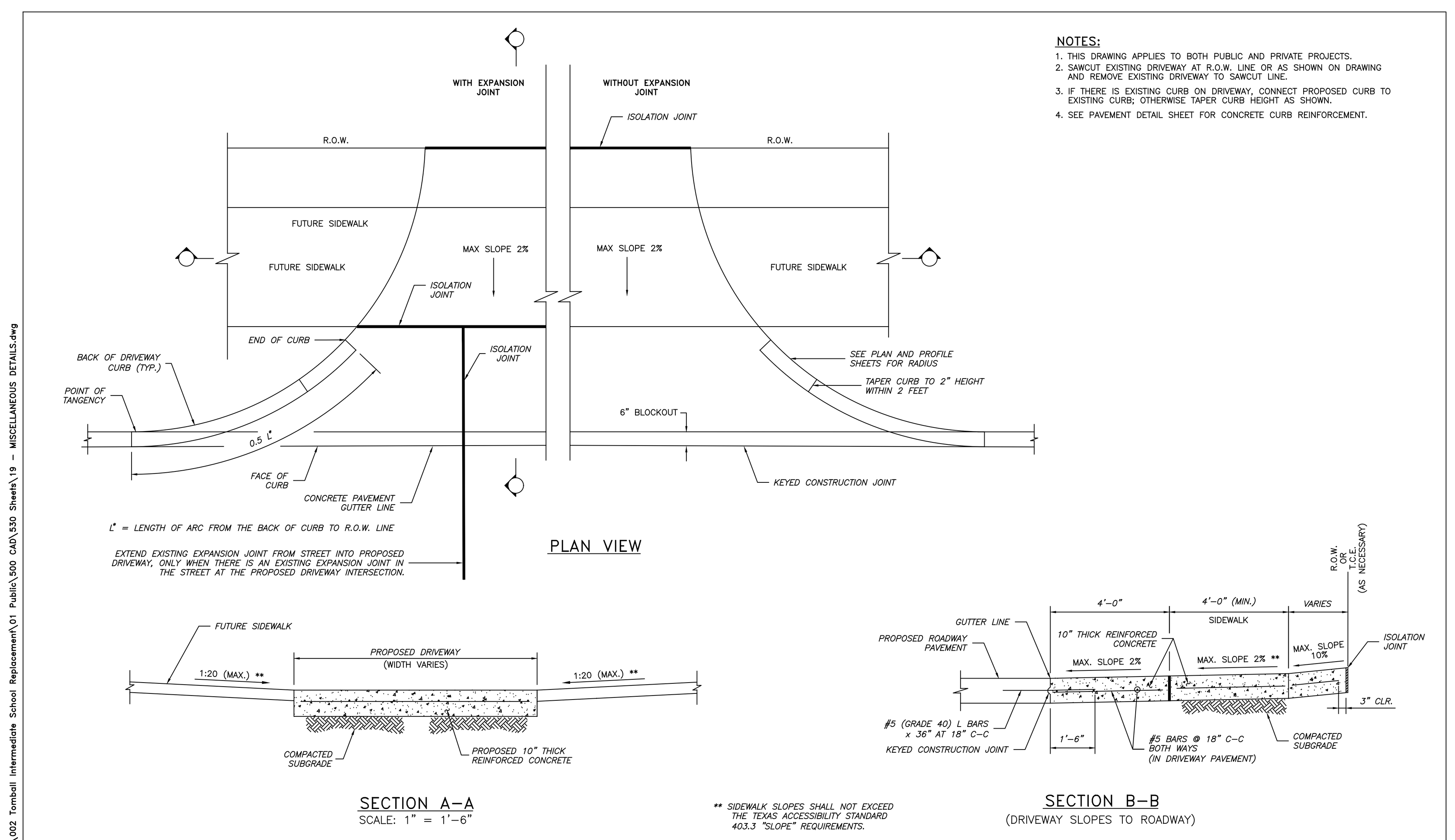
1. SAWCUT LIMITS SHALL BE AS DIRECTED BY ENGINEER.
2. EXISTING CONCRETE VERTICAL FACES SHALL BE CLEANED OF ALL DELETERIOUS LOOSE MATERIAL PRIOR TO CONCRETE PLACEMENT.
3. FOR REPAIR/REPLACE AREAS, A 6" DEPTH BASE SHALL BE REMOVED AND REPLACED WITH CEMENT STABILIZED SAND PER ITEM 433.
4. REINFORCEMENT FOR PAVEMENT 8" THICK OR GREATER SHALL BE NO. 5 BARS AT 18" SPACING IN EACH DIRECTION. REINFORCEMENT FOR PAVEMENT LESS THAN 8" THICK SHALL BE NO. 4 BARS AT 18" IN EACH DIRECTION.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN ON THE "TYPICAL CONCRETE ROADWAY WIDENING DETAIL" DRAWING). IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).

NOTES FOR CURB:

1. AT EACH PAVEMENT CONTRACTION JOINT, PROVIDE A 1/4" THICK PRE-MOLDED EXPANSION JOINT AT THE FULL WIDTH AND HEIGHT OF THE CURB.
2. FOR EACH PAVEMENT EXPANSION JOINT, THE PRE-MOLDED EXPANSION JOINT FILLER MATERIAL SHALL BE THE FULL WIDTH AND HEIGHT OF THE CURB.

HARRIS COUNTY ENGINEERING DEPARTMENT

SHEET DESCRIPTION: CONCRETE PAVEMENT DETAILS PRECINCT 1 & 3 (2 OF 2) — CIVIL STANDARD CP-13 — DRAWN BY: JDZ — CK'D BY: PDG — DATE: 11/05/18 — SCALE: AS NOTED



NOTES:

1. THIS DRAWING APPLIES TO BOTH PUBLIC AND PRIVATE PROJECTS.
2. SAWCUT EXISTING DRIVEWAY AT R.O.W. LINE OR AS SHOWN ON DRAWING AND REMOVE EXISTING DRIVEWAY TO SAWCUT LINE.
3. IF THERE IS EXISTING CURB ON DRIVEWAY, CONNECT PROPOSED CURB TO EXISTING CURB; OTHERWISE TAPER CURB HEIGHT AS SHOWN.
4. SEE PAVEMENT DETAIL SHEET FOR CONCRETE CURB REINFORCEMENT.

HARRIS COUNTY ENGINEERING DEPARTMENT

SHEET DESCRIPTION: PRECINCT 3 DRIVEWAY DETAILS — CIVIL STANDARD CD-3 — DRAWN BY: JDZ — CK'D BY: PDG — DATE: 02/28/18 — SCALE: 1" = 1'-6"

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4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
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Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS — SARA KAROUNI — 145244 — LICENSED PROFESSIONAL ENGINEER — 7/15/26

Huckabee — www.huckabee-inc.com — 800.687.1229

MISCELLANEOUS DETAILS (1 OF 2)
VOLUME 01

Job No. 00788-002-01 — Drawn By: AG — Date: 07.15.26 — Sheet No. C18.1

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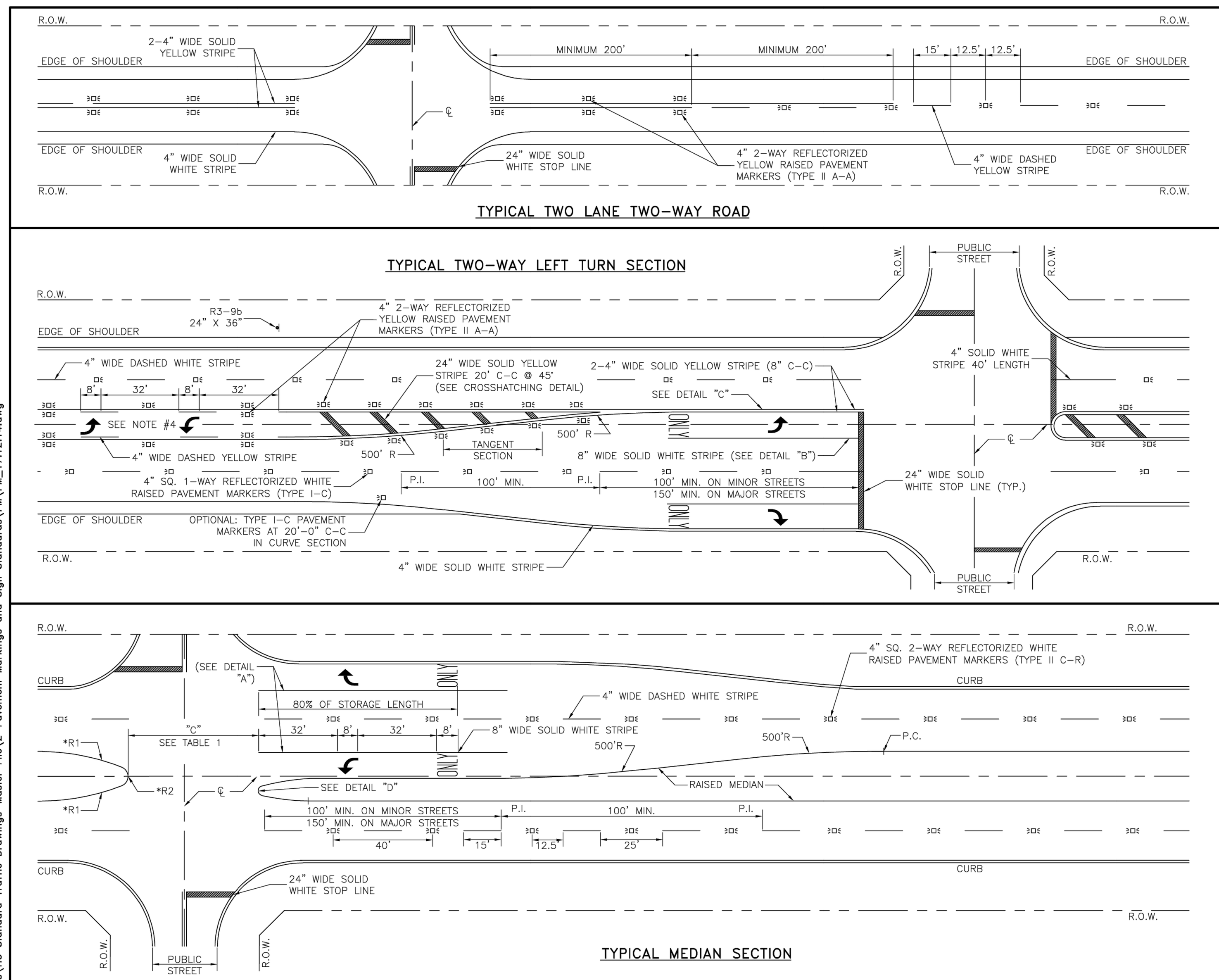
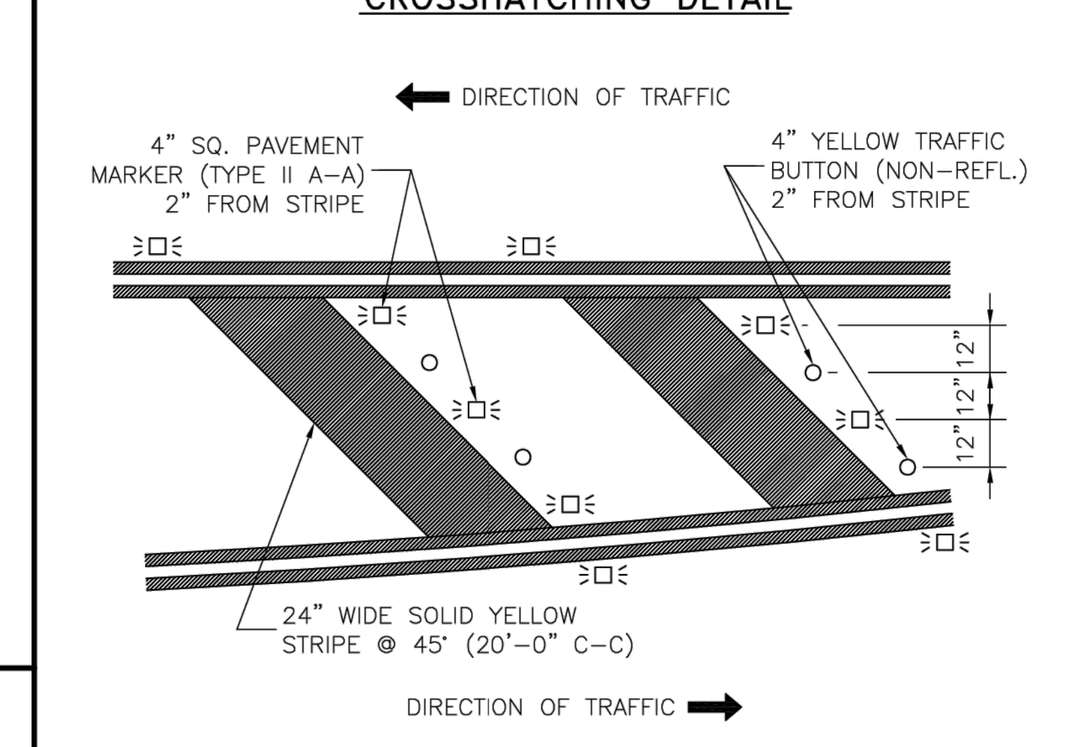


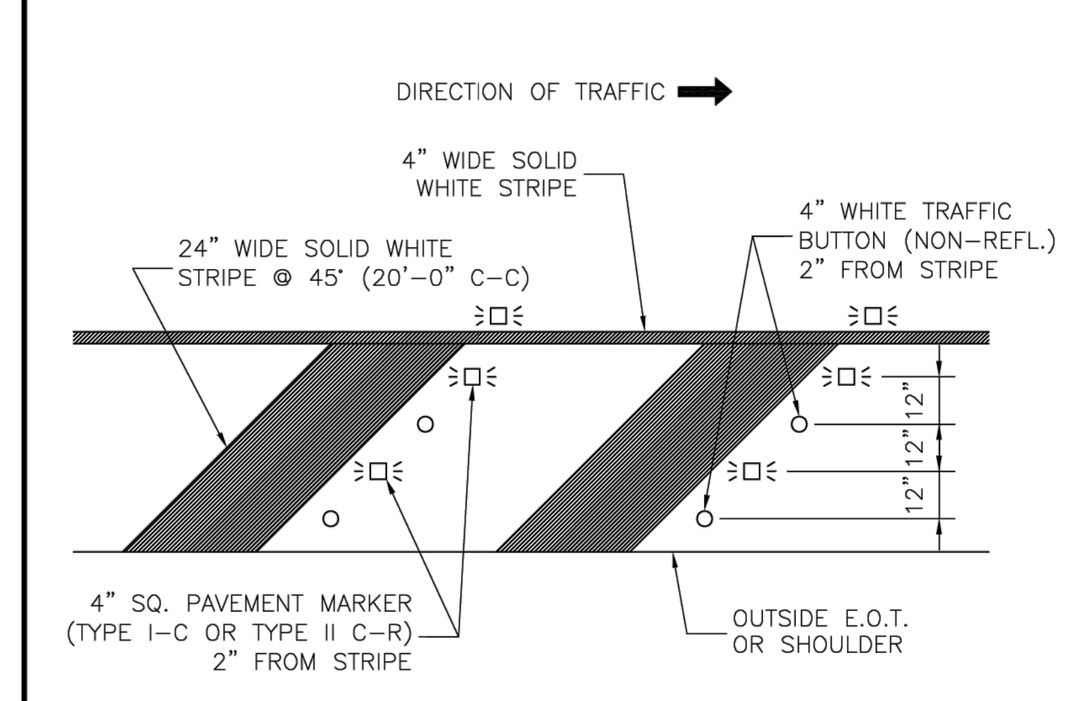
NOTES:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (TMUTCD).
2. ALL TRAFFIC BUTTONS AND MARKERS SHALL BE INSTALLED ADJACENT TO STRIPES (APPROXIMATELY 2").
3. LEFT TURN STORAGE BAYS SHALL BE A MIN. OF 100' ON MINOR STREETS AND A MIN. 150' ON MAJOR STREETS.
4. REPEAT ARROWS AT APPROXIMATELY 1000' INTERVALS WITHIN TWO-WAY LEFT TURN SECTION.
5. WHEN PAVEMENT MARKINGS EXTEND INTO OR CONTINUE THROUGH AN INTERSECTION AREA, THEY SHALL BE THE SAME COLOR AND AT LEAST THE SAME WIDTH AS THE LINE MARKINGS THEY EXTEND.
6. WHEN CROSSWALK MARKINGS ARE USED WITHIN AN ESTABLISHED SCHOOL ZONE AREA, CONTINENTAL TYPE MARKINGS SHALL BE USED.
7. ADDITIONAL SET OF "WORD" AND "ARROW" PAVEMENT MARKINGS SHALL BE USED WHEN TURN LANE STORAGE LENGTH IS 160 FEET OR GREATER.

CROSSHATCHING DETAIL



OUTSIDE EDGE CROSSHATCHING DETAIL



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ENGINEER: NAME
P.E. SERIAL No. NUMBER
DATE: / /

PROJECT TITLE:
SHEET DESCRIPTION: PAVEMENT MARKING DETAILS (1 OF 2) — TRAFFIC STANDARD PM
DRAWN BY: JDZ — DATE: 12/14/17
CK'D BY: BSH — SCALE: NONE — SHEET NO: /

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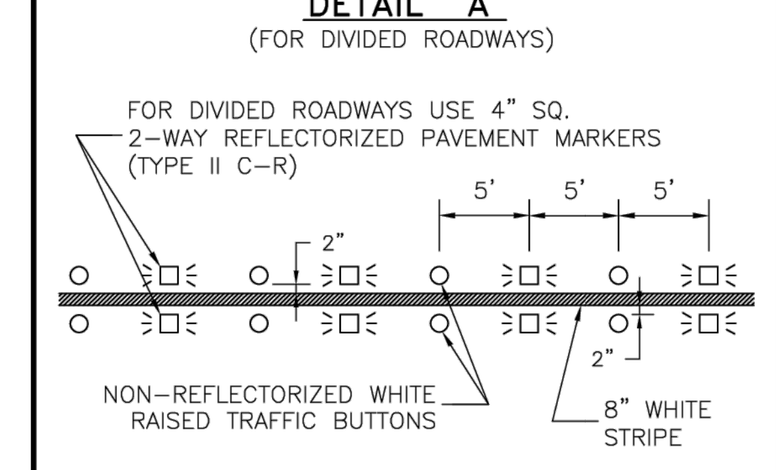
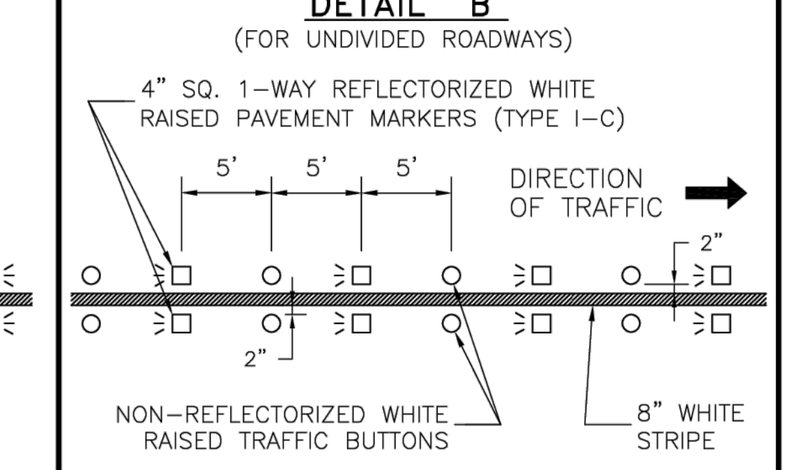
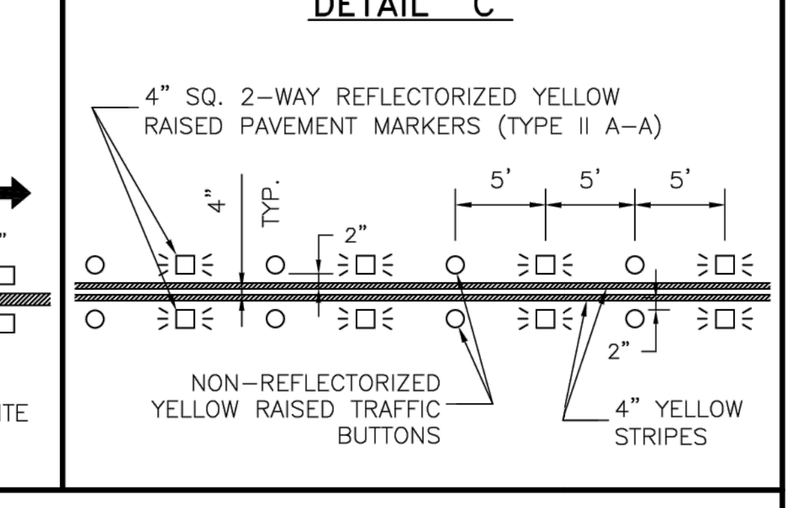
DETAIL "A" (FOR DIVIDED ROADWAYS)



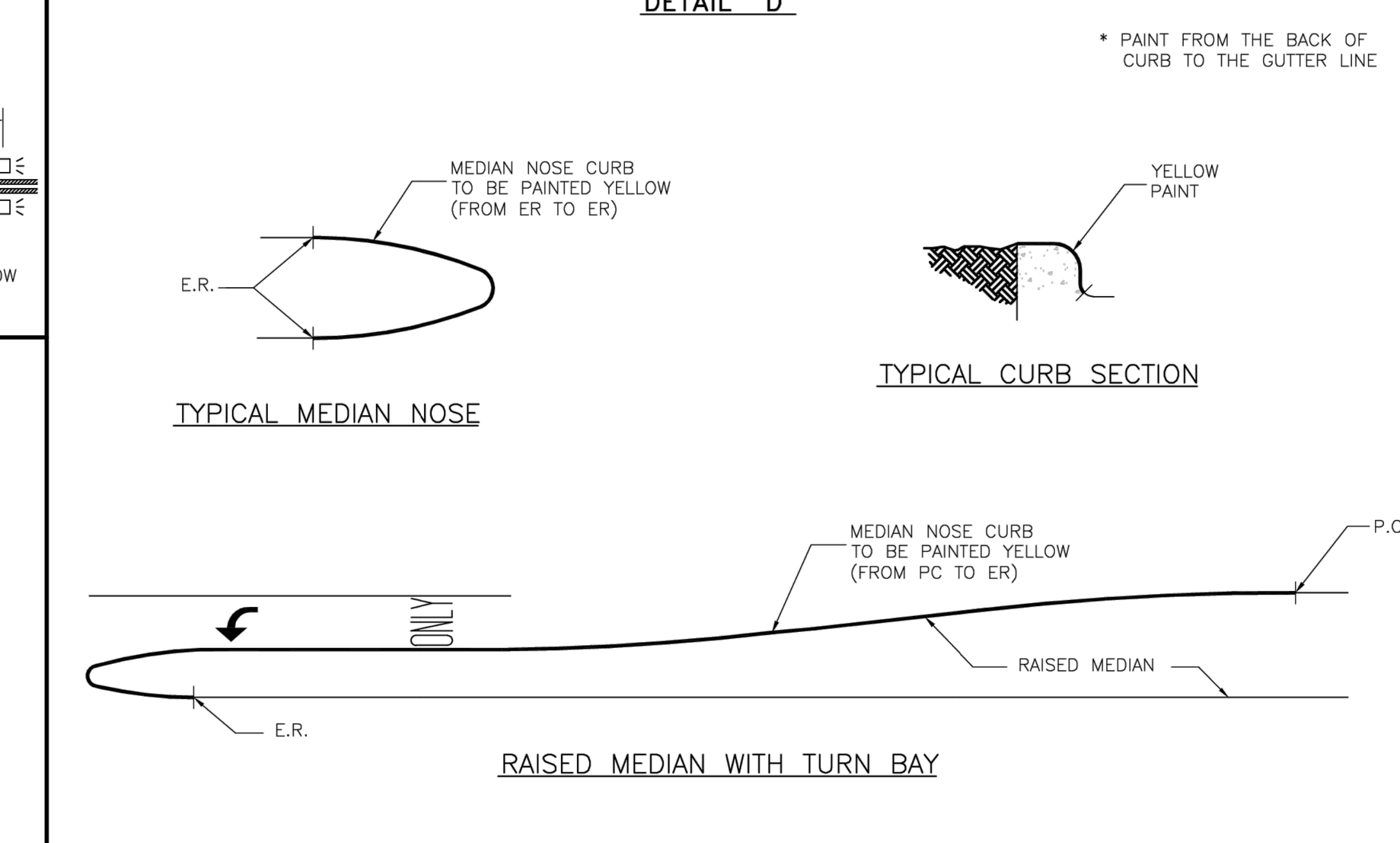
DETAIL "B" (FOR UNDIVIDED ROADWAYS)



DETAIL "C"



DETAIL "D"



PAVEMENT MARKER LEGEND

SYMBOL	DESCRIPTION
∃□∈	4" x 4" REFLECTORIZED RAISED PAVEMENT MARKER
□∈	INDICATED DIRECTION OF TRAFFIC FLOW
○	NON-REFLECTIVE 4" DIA. RAISED TRAFFIC BUTTON

RADIUS DIMENSIONS

MEDIAN	*R1	*R2
≤10'	N/A	W/2
>10' ≤40'	90'	W/5
>40'	N/A	N/A

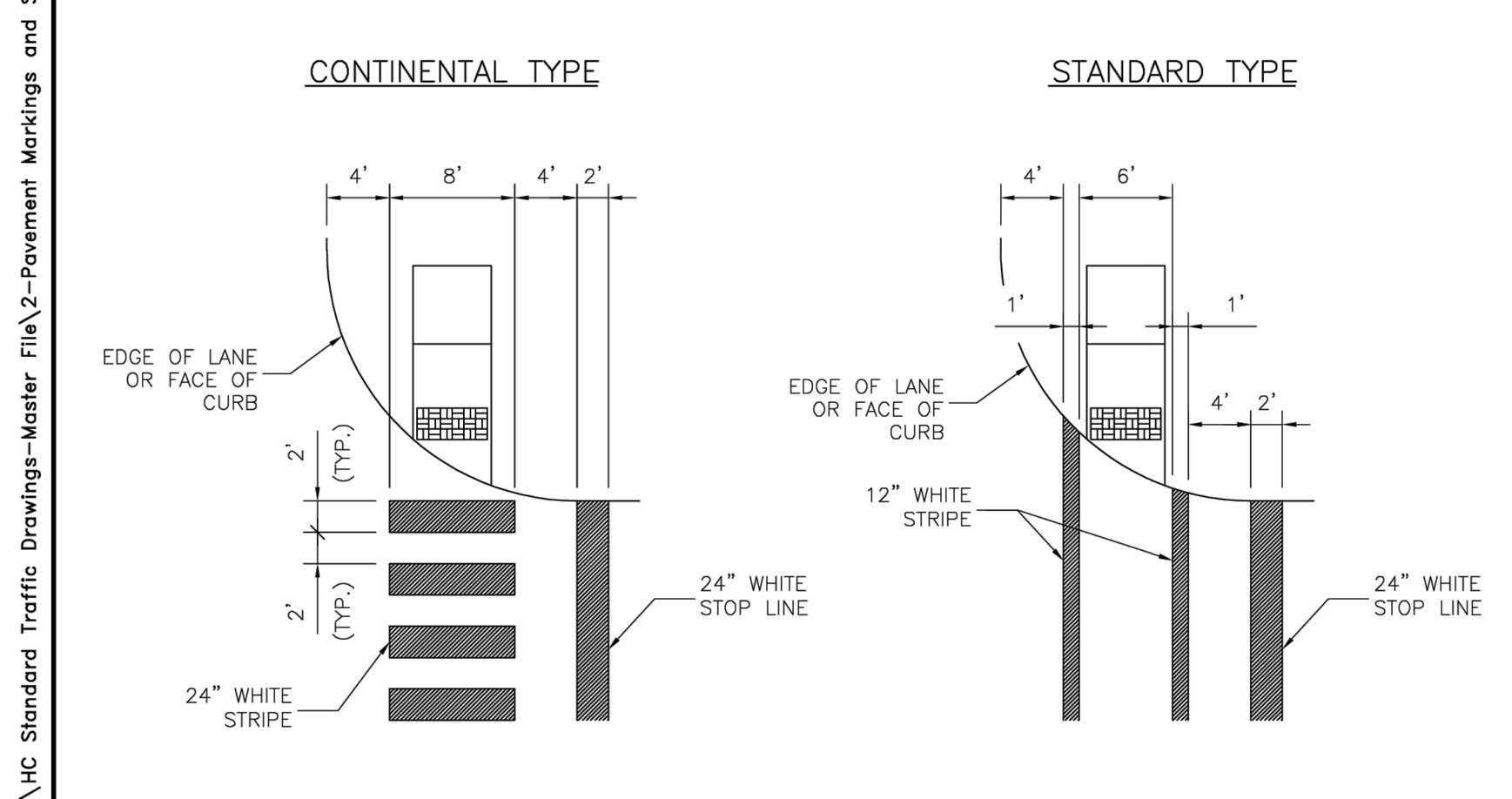
TABLE 1

TYPICAL MEDIAN OPENING "C"

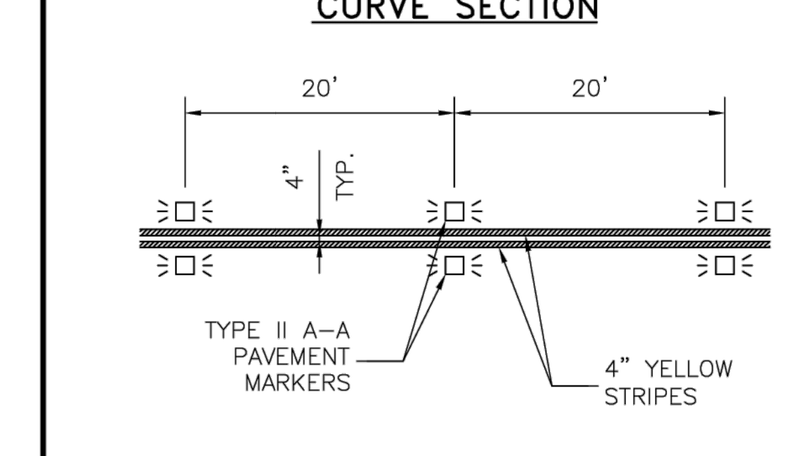
MEDIAN INTERRUPTION	(1) NO LTB	(1) 1 LTB	(1) 2 LTB
PRIVATE DRIVE	45'	52.5'	60'
UNDIVIDED STREET <40' 44'	45' 50'	52.5' (2) 55' (2)	60' 60'
DIVIDED STREET	D+22'	D+22'	D+22'

NOTES:
(1) LTB = LEFT TURN BAY
(2) DISTANCE FROM CENTERLINE OF OPENING TO MEDIAN NOSE WITH LEFT TURN LANE IS 30' FOR RIGHT ANGLE INTERSECTIONS. FOR INTERSECTIONS OTHER THAN 90°, APPLY DESIGN VEHICLE TURNING TEMPLATE TO DETERMINE DIMENSION TO MEDIAN NOSE CUT OFF.
(3) D = WIDTH OF DIVIDED STREET

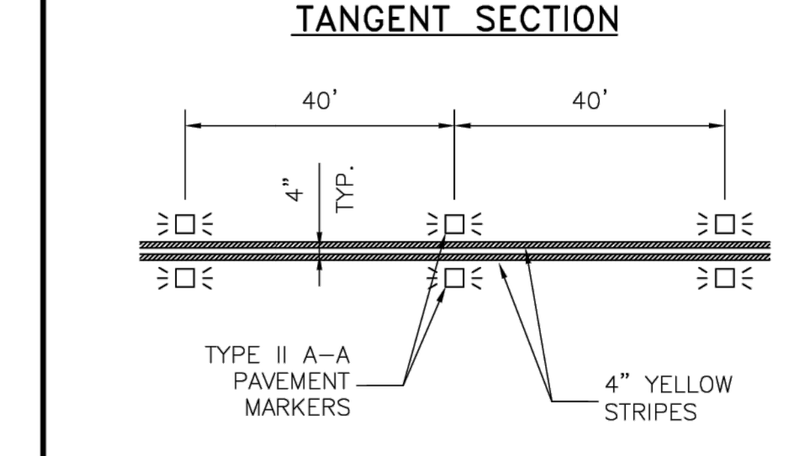
TYPICAL CROSSWALK PLACEMENT



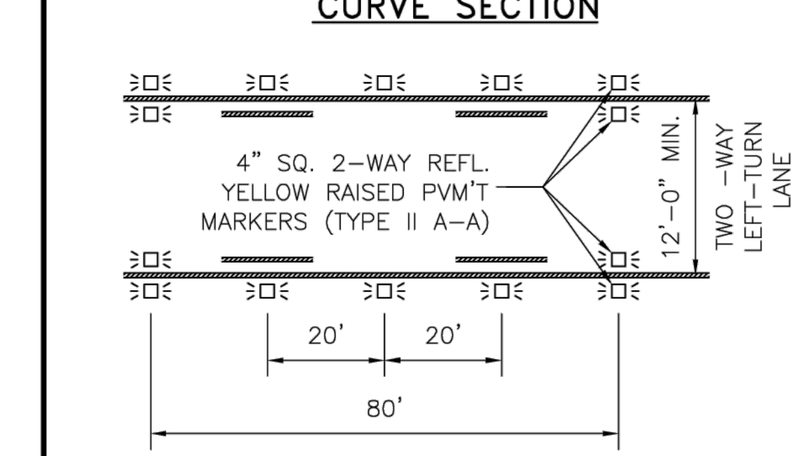
CENTER LINE DETAIL CURVE SECTION



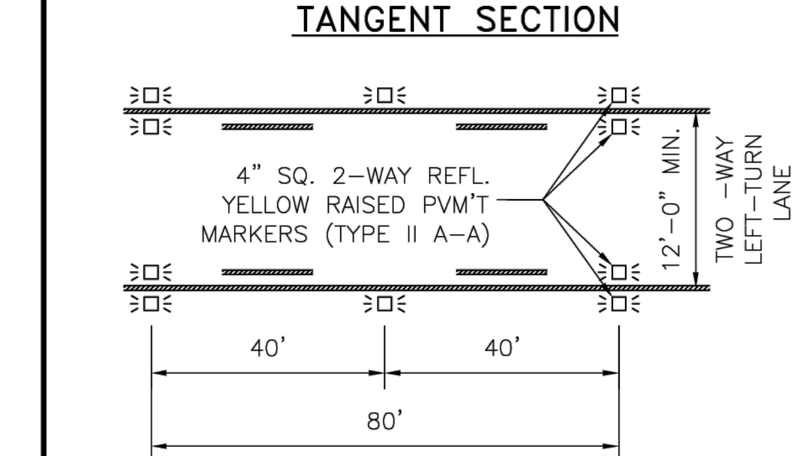
CENTER LINE DETAIL TANGENT SECTION



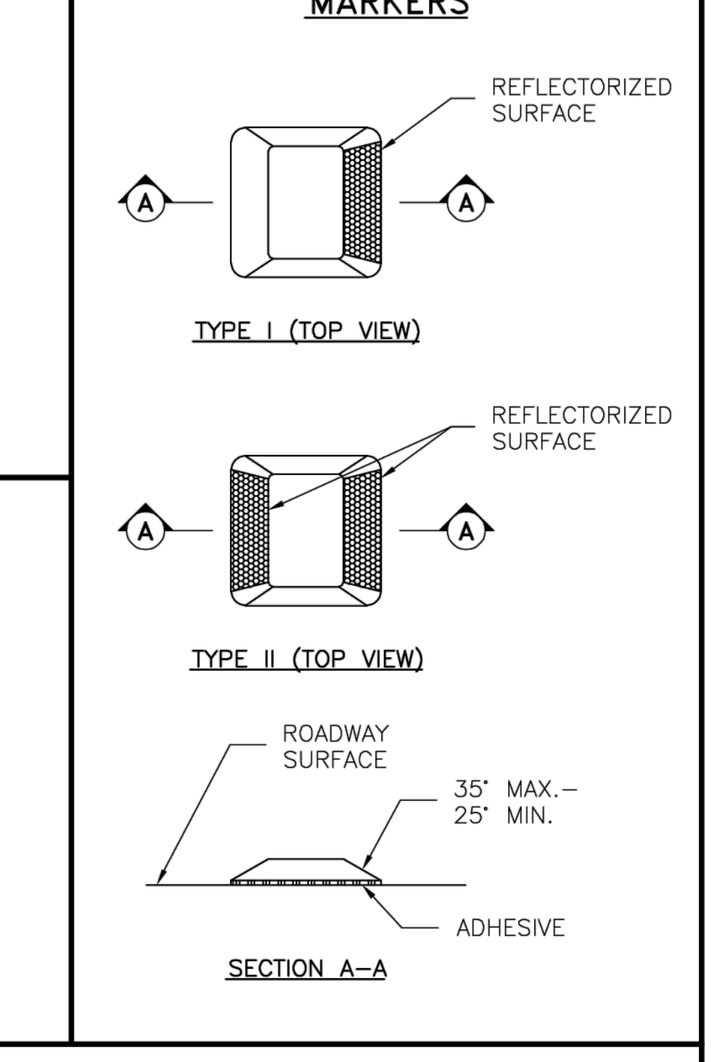
TWO-WAY LEFT TURN CURVE SECTION



TWO-WAY LEFT TURN TANGENT SECTION



RAISED PAVEMENT MARKERS



NO.	REVISIONS	DATE	NAME

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ENGINEER: NAME
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PROJECT TITLE:
SHEET DESCRIPTION: PAVEMENT MARKING DETAILS (2 OF 2) — TRAFFIC STANDARD PM
DRAWN BY: JDZ — DATE: 12/14/17
CK'D BY: BSH — SCALE: NONE — SHEET NO: /

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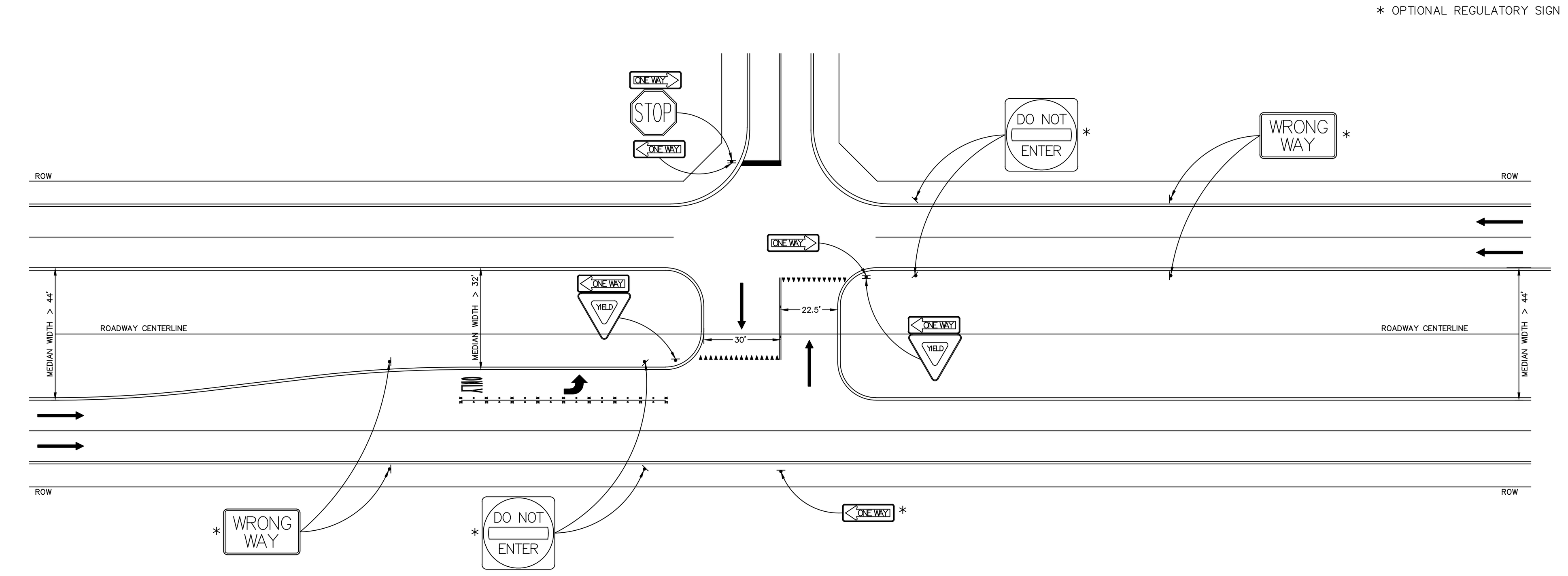
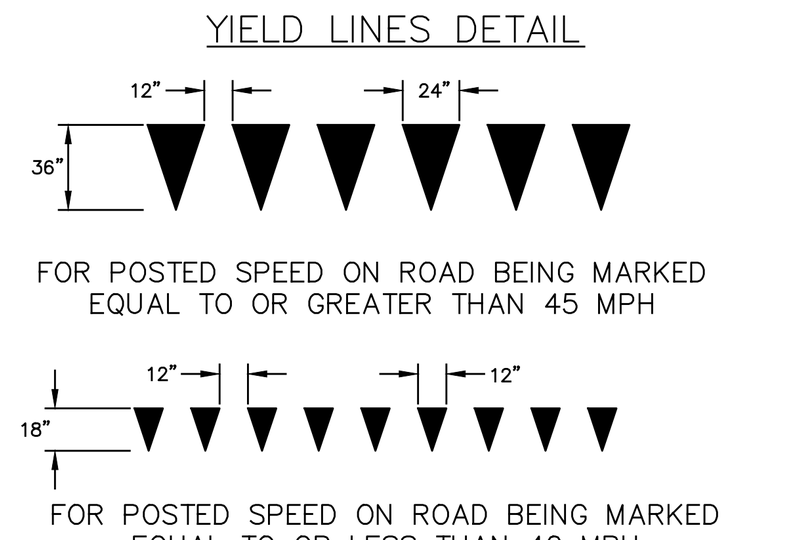
LEGEND
DIRECTIONAL ARROW
* OPTIONAL REGULATORY SIGN



YIELD LINES DETAIL



GENERAL NOTES:
1. MEDIAN WIDTHS ARE DETERMINED BY THE DISTANCE A VEHICLE HAS TO "CROSS" IN ORDER TO REACH A THROUGH LANE.
2. MEDIAN WIDTHS LESS THAN OR EQUAL TO 32' SHALL BE DESIGNATED AS A STANDARD DESIGN AND FOLLOW HARRIS COUNTY PAVEMENT MARKING DETAIL.
3. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM WITH THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), "STANDARD HIGHWAY SIGN DESIGN FOR TEXAS" (SHSD) AND HARRIS COUNTY STANDARD DETAILS.
4. ALL PAVEMENT MARKINGS MATERIALS SHALL MEET THE REQUIRED MATERIALS SPECIFICATIONS AS SPECIFIED BY HARRIS COUNTY AND PLANS.
5. SIGN SUBSTRATE MATERIAL SHALL MEET THE REQUIRED MATERIALS SPECIFICATIONS AS SPECIFIED BY HARRIS COUNTY AND PLAN.
6. THIS STANDARD IS TO PROVIDE GUIDANCE FOR THE DESIGN AND INSTALLATION OF MEDIAN TREATMENTS, PAVEMENT MARKINGS, AND SIGNING.

NO.	REVISIONS	DATE	NAME

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PROJECT TITLE:
SHEET DESCRIPTION: PAVEMENT MARKINGS & SIGNS FOR MEDIANS > 44' WIDE (UNSIGNALIZED) (2 OF 3) — TRAFFIC STANDARD PM-MED
DRAWN BY: BSH — DATE: 8/23/17
CK'D BY: BSH — SCALE: NONE — SHEET NO: /

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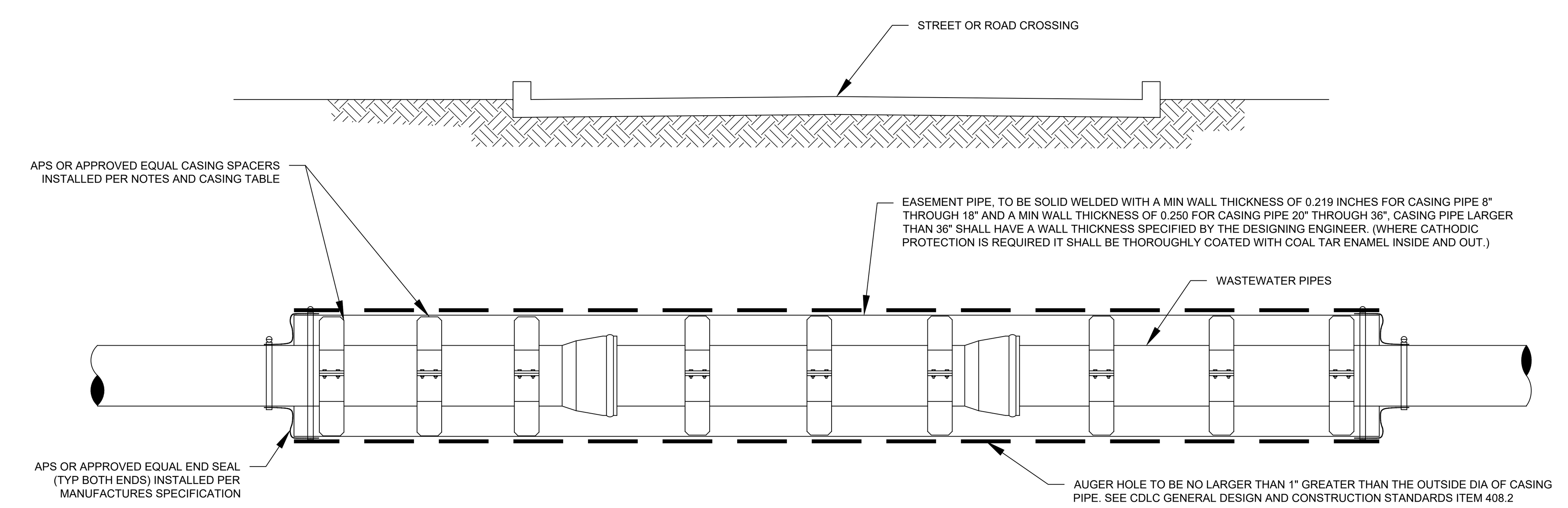


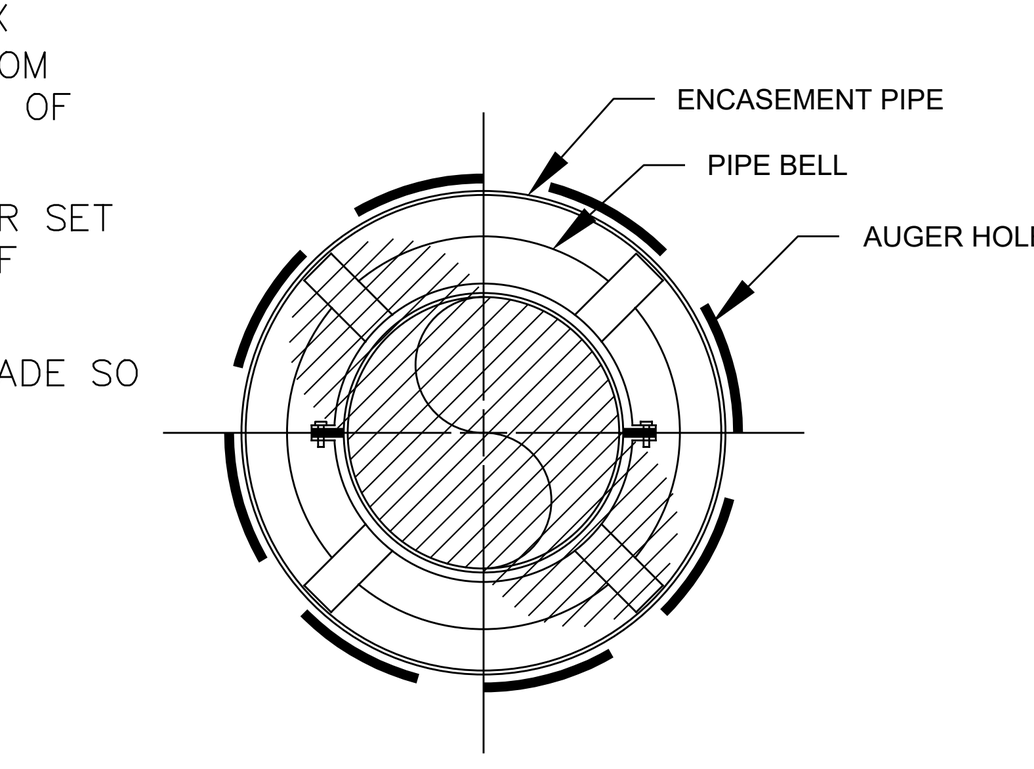
LONGITUDINAL SECTION

NOTES:

1. SPACERS FOR CARRIER PIPE SHALL BE ADVANCE PRODUCTS AND SYSTEMS, INC., STAINLESS STEEL, NEOPRENE OR APPROVED EQUAL AND SHALL BE INSTALLED TO CENTER CARRIER PIPE WITHIN CASING WITH A MAX TOLERANCE OF ½" BETWEEN RUNNER AND CASING INSIDE AS WELL AS PREVENT THE CARRIER PIPE FROM RESTING ON THE BELLS WITHIN THE CASING. SEE CASING TABLE FOR SPACER DISTANCE AND NUMBER OF SPACERS.
2. SPACERS TO BE PLACED A MIN OF 1' BACK FROM EACH JOINT THAT FALLS WITHIN CASING, A GREATER SET BACK MAY BE REQUIRED FOR LARGER PIPE. SEE CASING TABLE FOR ADDITIONAL INFO ON SPACING OF SUPPORTS.
3. WHEN INSTALLING GRAVITY PIPE WITH CASING CONTRACTOR SHALL TAKE INTO CONSIDERATION PIPE GRADE SO THAT THE SEWER PIPE MAINTAINS THE PROPER FALL.

CASING TABLE

NOMINAL PIPE SIZE DIA IN INCHES	CASING SIZE INSIDE DIA IN INCHES	MAX SKID SUPPORT SPACING IN FEET
4	8–10	4.7
6	10–12	6.3
8	14–16	7.4



CROSS SECTION

PIPE CASING DETAIL
N.T.S.

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4526 Research Forest, Suite 360, The Woodlands, Texas 77381, 713.789.1900

SCALE	DESIGN	DRAWN
N/A	AG, MH	AG

Revision / S&S — Date 07/13/2026

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS — SARA KAROUNI — 145244 — LICENSED PROFESSIONAL ENGINEER
7/15/26
Sara Karouni

Huckabee
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MISCELLANEOUS DETAILS (2 OF 2)
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Drawn By: AG
Date: 07.15.26
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Landscape Requirements:

1. Perform all work in accordance with all applicable laws, codes, and regulations required by authorities having jurisdiction over such work and provide all inspections and permits required by Federal, State, and local authorities in supply, transportation, and installation of materials.

2. The contractor shall be responsible for the verification of all underground utility lines (telephone, gas, water, electrical, cable, TV, etc.) and all overhead utility easements prior to start of any planting works.

3. All plant materials shall possess the following minimum qualities:
   a. Plants shall be nursery grown in accordance with good horticultural practices under climatic conditions similar to those of the project for at least twelve months.
   b. All plants shall be heavy, symmetrical, tightly knit, so trained or favored for development and appearance as to be superior in form, number of branches, compactness, and symmetry.
   c. Plants shall be sound, healthy and vigorous, well branched, and densely foliated when in leaf. They shall be free of disease, insects, pests, eggs, or larvae.
   d. All plants shall be true of species and variety and shall conform to measurements (caliper size, trunk heights, spread) as specified on the drawings.
   e. Container grown stock when specified shall have grown in the container in which delivered for at least six months, but not over two years. Samples must prove no rootbound conditions exist.
   f. Caliper measurements shall be taken at a point on the trunk six inches (6") above natural ground line for trees up to four inches (4") in caliper.
   g. All trees shall be staked by a minimum of two metal "T" stakes for single trunk trees and three stakes for all multi-trunk trees.

4. Planting mix shall be thoroughly mixed in the following proportions:
   a. Prepared soil as backfill for shade and ornamental trees shall be: 5 part clay loam topsoil + 2 part compost + 1 part sharp sand + 4 Lbs. Commercial fertilizer per CY Or 10 Lbs. Organic fertilizer.
   b. Prepared soil as backfill for shrubs and groundcovers and seasonal colors shall be: 1 part enriched mulch + 1 part compost bark mulch + 1 part enriched topsoil + 1 part No. 1 Bank Sand + 3 Lbs. Time- released fertilizer, 14-14-14 per CY or 8 Lbs. Organic fertilizer.

5. Excavation work and Surface drainage works shall conform to the following requirements:
   a. Test drainage of plant beds and plant pits by filling with water twice in succession. Conditions permitting the retention of water for more than 24 hours shall be brought to the attention of the Owner.
   b. Work shall include the final responsibility for proper surface drainage of planted areas. Any obstructions on the site, or prior work done by another part, which precludes establishing proper drainage shall be brought to the attention of the Owner in writing.
   c. Excavate each tree hole 18" deep plus the depth of the tree container size (15 gal. Or 30 gal. Or 65 gal. Or 100 gal.).
   d. Excavate entire shrub bed to a depth of 8" plus the depth of the shrub container size (5 gal.) unless noted as being pit planted on landscape legend.
   e. Excavate entire groundcover bed to a depth of 6" plus the depth of the groundcover container size (4" pot or 1 gal.).

6. Additional work requirements on landscape areas:
   a. Prior to installation of any planting works (trees, shrubs,groundcover and grass works); apply "Round Up" in all planting areas to eradicate all weed growths on site.
   b. ADD ALTERNATE: Install weed control barriers in all trees, shrub and groundcover planting areas. Weed barrier fabric shall be back polypropylene sheet 27 mils thick, 4 oz/s.y. grab tensile strength per ASTM D-4632; 90 lbs. (machine direction) 50 lbs.(cross machine direction). Provide DeWitt "Weed Barrier" or approved substitute.
   c. Use **"Shovel Edge"** to separate all plant beds from grass areas.
   d. Spread a minimum two inch layer of pine bark mulch overall shrub and groundcover bed areas.

7. Landscape maintenance work by the Landscape Contractor after final acceptance shall include the following:
   a. The maintenance period shall commence upon inspection and approval at Final Acceptance and shall be for a period of Sixty Days (60).
   b. The landscape contractor shall coordinate the watering program for all the landscape work with the Owner.
   c. Maintenance of new plantings shall consist of watering, cultivating, weeding, mulching, restaking, tightening and repair of guys; resetting plants for proper grades or upright position, and furnishing and application of pesticides/herbicides; sprays, and invigorants as are necessary to keep plantings free of insects and disease and in a thriving condition.

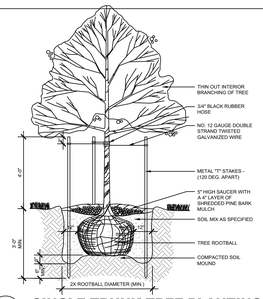
8. Warranty Periods, Plant Guarantees, and Replacements:
   a. Planting supplied shall be warranted to remain alive and healthy for a period of twelve months (12) after the date of Final Acceptance by Owner. Plants in an impaired, dead, or dying condition after initial acceptance or within 12 months shall be removed and replaced immediately to the satisfaction of the Owner.

Landscape Summary:

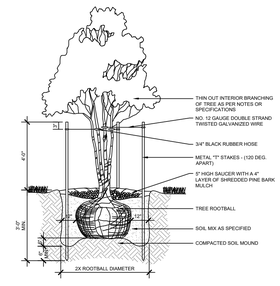
Applicable Code	Section 50-113, Code of Ordinances	
Total Area of Site (SF)	602,699 SF	
Total Area of Site covered by a building:	88,379.47 SF	
Total Area of Site NOT covered by a building:	514,319.53 SF	
TOMBALL REQUIREMENTS:	**REQUIRED**	**PROVIDED**
Front Yard Landscaping: 15% of the Front Yard shall be permanently landscaped. 60,425 x 15% = 9,063.75 SF required.	9,063.75 SF required.	17,423 SF provided
Tree Requirements: 40,001 sf or greater, per 20,000 sf: 3 trees Total SF of site not covered by a building:	514,319.53 SF/20,000 = 25.7 x 3 = 77 Trees	81 Trees Provided
Street Trees Section 50-113(f)(4)(d), code of ordinances Hufsmith-Kohrville Rd 770.60 LF/40 = 19.26 trees	19 Trees	19 Trees
Parking Lot Trees 152/10= 15.2 trees	15 Trees	15 Trees
Total Trees (Site + Street + Parking) 77 + 19 + 15 = 121	111 Trees	116 Trees

Grass Hydromulching Work Requirements:

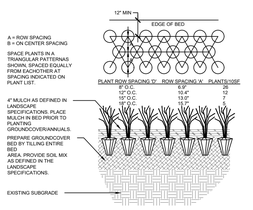
1. Grass works:
   a. Seed which has become wet, moldy and otherwise damaged in transit or in storage will not be acceptable.
   b. All grass seed shall be fresh, re-cleaned grass seed of the latest crop, mixed in the following proportions by weight and meeting the accepted standards of pure live seed content, purity and germination.
   c. Grass seed shall have the following minimum ratio:
      Summer Mix:
      Cynodon Dactylon (Hulled Common Bermuda Grass) 85% pure live seed at 75 Lbs. Pure live seed per acre.
      Winter Mix:
      Cynodon Dactylon (Unhulled - Common Bermuda Grass) 85% pure live seed at 75 Lbs. Pure live seed per acre. Annual Rye Grass or equal, 85% pure live seed at 175 Lbs. Pure live seed per acre.
2. Slurry Mix Component per Acre shall be Wood cellulose fiber mulch = 2,000 pounds + Grass Seed as specified + fertilizer (13-13-13) 800 pounds.
3. Hydromulched seeding on Prepared finished grades:
   a. Install and spread out a minimum of one inch layer of topsoil over all areas to be hydromulched.
   b. Bed preparation: Immediately after the finished grade has been approved, begin hydroseeding operation to reduce excessive weed growth and erosion.
   c. Apply seed, fertilizer and mulch by spraying them on the previously prepared seedbeds in the form of an aqueous mixture and by using the methods and equipment described herein.
   d. Particular care shall be exercised by the contractor to insure that the application is made uniformly and at the prescribed rate and to guard against miss and overlapped areas.
   e. Where slope of areas to be grassed exceed a 3:1 H:V; an erosion control fabric shall be installed prior to hyromulching process.
4. Maintenance:
   a. Maintenance shall consist of weeding, fertilizing, insect control, watering, replanting, mowing, maintaining of existing grades and repair of any erosion damages.
   b. Guarantee growth and coverage of hydromulch planting shall be a minimum on ninety five percent 95% of the area planted will be covered with specified planting after sixty days with no bare spots visible.
   c. Watering: Coordinate with the Owner to properly operate irrigation system to assure a regular, deep watering program.
5. Inspection and Final Acceptance:
   Final acceptance of lawn establishment shall mean that hydroseed areas are Ninety Five percent 95% uniform coverage of grass in excess of one inch height. No bare spots will be acceptable.



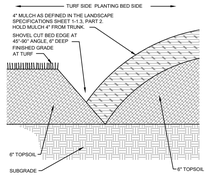
A L1.1 **SINGLE-TRUNK TREE PLANTING**
SCALE: NOT TO SCALE



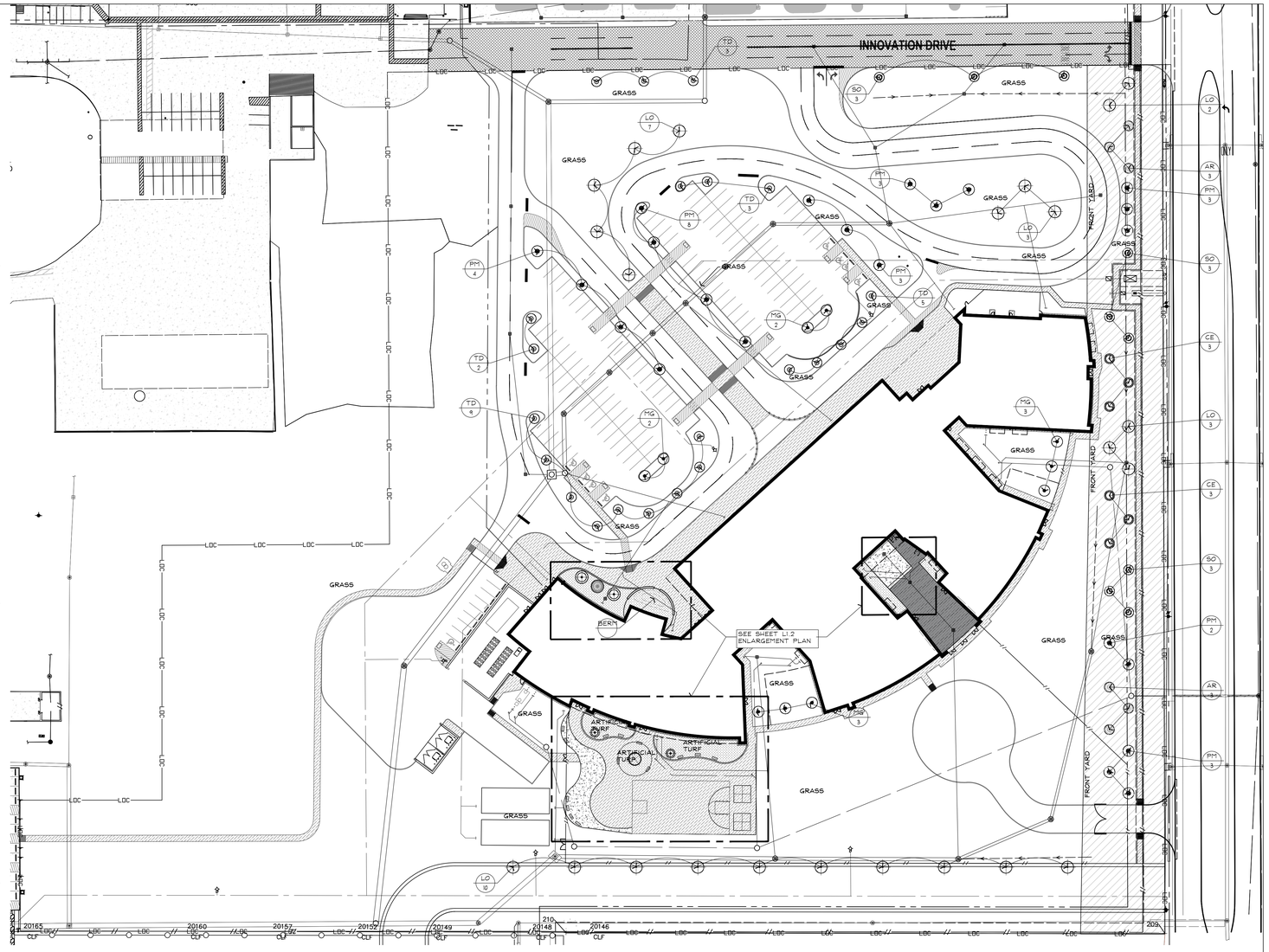
B L1.1 **MULTI -TRUNK TREE PLANTING**
SCALE: NOT TO SCALE



C L1.1 **GROUNDCOVER PLANTING**
SCALE: NOT TO SCALE



D L1.1 **SHOVEL CUT BED EDGE**
SCALE: NOT TO SCALE



Landscape Legend:

Symbolic Name	Quantities (Verify)	Botanical Name	Common Name	Size and Plant Requirements
LO	24	Quercus Virginiana	Live Oak	4" cal. 65 gal. container; 12' to 14' ht.
AR	6	Acer Rubrum	October Glory Maple	4" cal. 65 gal. container; 12' to 14' ht.
TD	22	Taxodium Distichum	Bald Cypress	3" cal. 65 gal. container; 12' to 14' ht.
PM	22	Platanus Mexicana	Mexican Sycamore	4" cal. 65 gal. container; 12' to 14' ht.
SO	9	Quercus Shumard	Shumard Oak	4" cal. 65 gal. container; 12' to 14' ht.
CE	6	Ulmus Crassifolia	Cedar Elm	4" cal. 65 gal. container; 12' to 14' ht.
MG	10	Magnolia Grandiflora	DD Blanchard Magnolia	3" cal. 65 gal. container; 12' to 14' ht.
SHRUBS, PERENNIALS, ORNAMENTAL GRASSES				
Edge — — —	Verify	Proposed 12" wide maintenance band to be constructed along all building edge.		Excavate a 12' wide channel to a minimum depth of 3". Compact subgrade and slope away from building. Install geotextile filter fabric membrane over excavated channel prior to filling with Black Star crushed granite. Use Permaloc edging as edge restraints.
Grass	Verify SF.	Cynodon Dactylon	Common Bermuda	**Hydromulch** for all areas within the limits of this project. All areas to be grassed shall be cleaned up of all construction debris prior to any fine grading works. All fine grading work shall adhere to WGA drainage/grading plans.

Owner's Responsibility For Maintenance
Client acknowledges and agrees that proper Project maintenance is required after the Project is complete. A lack of or improper maintenance in areas such as, but not limited to, operation and maintenance of automatic irrigation system, all site drainage and all planting materials maintenance may result in damage to property or persons. Client further acknowledges that he is solely responsible for the results of any lack of or improper maintenance.
Landscape Contractor's Responsibilities:
All drainage (surface and subsurface) of all landscape areas within the project limits shall be the responsibility of the installing landscape contractor and landscape maintenance company. All grading of areas along all building areas must absolutely have positive slope away from building, In no case shall any plant bed be constructed along edge of building that will impede water flow away from building. If planting beds are located at edges of building, landscape contractor shall make sure that these areas drain properly (surface and subsurface-wise). Contractor shall install moisture barrier along building as necessary to keep water from penetrating underneath building slab.

"REFER TO FINISHED GRADES SHOWN ON PROJECT CIVIL GRADING PLAN. IT WILL REPRESENT FINAL ELEVATIONS. CARE SHOULD BE TAKEN BY THE LANDSCAPE CONTRACTOR NOT TO INCREASE THESE FINISHED GRADES WITH LANDSCAPING OR OTHER ALTERATIONS. THE THICKNESS OF SOD, GRASS AND LANDSCAPING MATERIALS SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS IN THESE CIVIL GRADING PLANS IN ORDER TO DETERMINE THE GROUND ELEVATIONS DURING CONSTRUCTION."

0 10' 25' 50' 100'
SCALE: 1"=50'

1 L1.1 **LANDSCAPE PLAN**
SCALE: 1" = 50'-0"

N

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

Wong & Associates, Inc.
P.O. Box 2028 Bellaire, Texas 77402-2028
Tel. 713-777-9198 Cell. 713-557-9298
Member: American Society of Landscape Architects

Huckabee
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800.687.1229

LANDSCAPE PLAN
VOLUME 01

Job No.	Sheet No.
00802-04-01	L1.1
Drawn By: EW/SR	
Date: 07.15.26	

DD QC

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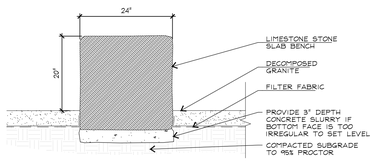
Landscape Legend:

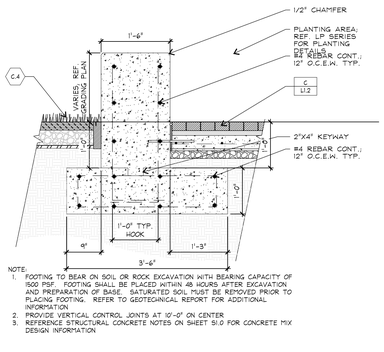
Symbolic Name	Quantities (Verify)	Botanical Name	Common Name	Size and Plant Requirements
TREES				
LO	1	Quercus Virginiana	Live Oak	4" cal. 100 gal. container; 12' to 14' ht.
PR	1	Prunus mexicana	Mexican Plum	2" cal. 30 gal. container; 9' to 10' ht.
CC	4	Cercis Canadensis	Texas Redbud	2" cal. 30 gal. container; 9' to 10' ht.
SHRUBS, PERENNIALS, ORNAMENTAL GRASSES				
Grass	Verify SF.	Cynodon Dactylon	Common Bermuda	**Hydromulch** for all areas within the limits of this project. All areas to be grassed shall be cleaned up of all construction debris prior to any fine grading works. All fine grading work shall adhere to WGA drainage/grading plans.

Hardscape Legend:

Key	Quantities (Verify)	Description / Model Number	Color/Finish	Contact	Remarks
CONCRETE / STONE / PAVER					
C.1	sf	Concrete with Rock Salt finish	Rock Salt finish to be coordinated with ARCH	N/A	-Contractor to provide sample for landscape architect approval prior to installation. -Contractor to verify quantity prior to ordering and installation. -Refer to plans for design and location -Mortar installation
C.2	sf	Traditional Prest Brick Nominal 4"x8" with Square Edge (3 $\frac{5}{8}$" x 7 $\frac{5}{8}$" x 3")	Granite Collection: GCB91006 Ground Tudor	Hanover Architectural Products: info@hanoverpavers.com	-Contractor to provide sample for landscape architect approval prior to installation. -Contractor to verify quantity prior to ordering and installation. -Refer to plans for design and location -Mortar installation
C.3	lf	6" CORTEN STEEL HAMMER-IN, ROUNDED TOP EDGE or IRON TREE GRATE	CORTEN STEEL or TBD	EDGE RIGHT OR SIMILAR https://edgeright.com/ info@edgeright.com 205-509-2733	-Contractor to provide sample for landscape architect approval prior to installation. -Contractor to verify quantity prior to ordering and installation. -Refer to plans for design and location
C.4	sf	SYNLAWN: SYNAugustine 347 or similar	Artificial Turf	SYNLAWN OR SIMILAR	-Contractor to provide sample for landscape architect approval prior to installation. -Contractor to verify quantity prior to ordering and installation. -Refer to plans for design and location
FURNISHING					
F.1	19	LIMESTONE BLOCK BENCH 2' X 5'	LIMESTONE	LOCAL SOURCE	- Install Per Manufacturer's Recommendations -Refer to plans for quantity and location -Contractor to provide cut sheet & color samples for approval prior to ordering

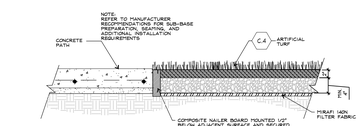


F.1 / L1.2 LIMESTONE BLOCK BENCH
SCALE: NOT TO SCALE



NOTE:
1. FOOTING TO BEAR ON SOIL OR ROCK EXCAVATION WITH BEARING CAPACITY OF 1500 PSF. FOOTING SHALL BE PLACED WITHIN 48 HOURS AFTER EXCAVATION AND PREPARATION OF BASE. SATURATED SOIL MUST BE REMOVED PRIOR TO PLACING FOOTING. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
2. PROVIDE VERTICAL CONTROL JOINTS AT 10'-0" ON CENTER
3. REFERENCE STRUCTURAL CONCRETE NOTES ON SHEET S1.0 FOR CONCRETE MIX DESIGN INFORMATION

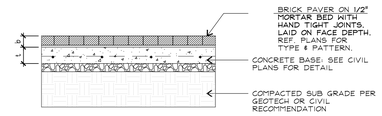
F.2 / L1.2 BLOCK WALL BENCH - COORDINATE WITH ARCH
SCALE: NOT TO SCALE



B / L1.2 ARTIFICIAL TURF AT CONCRETE PATH
SCALE: NOT TO SCALE

BRICK PAVER DROP SLAB DIMENSION:
FOR BRICKS LAID ON FACE DEPTH b= 3"
FOR BRICKS LAID ON EDGE DEPTH b= 3-7/8"

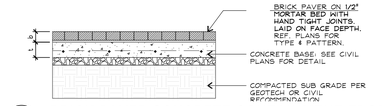
DROP SLAB AREAS TO BE NO GREATER THAN 400SF WITHOUT EXPANSION JOINTS OR AS SHOWN ON PLANS.



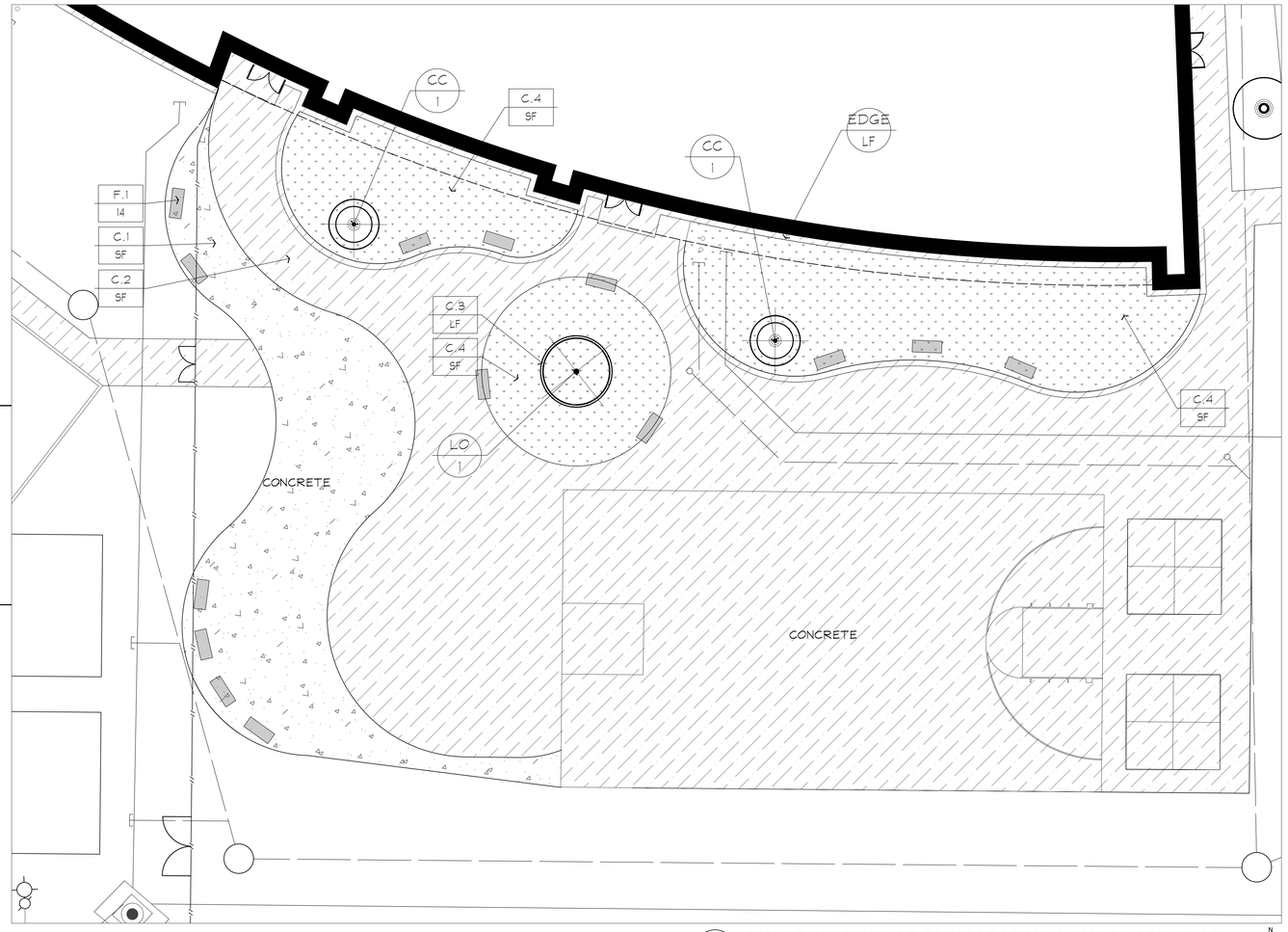
C / L1.2 BRICK PAVER ON MORTAR SETTING BED
SCALE: NOT TO SCALE - FLUSH JOINTS - ON CONCRETE

BRICK PAVER DROP SLAB DIMENSION:
FOR BRICKS LAID ON FACE DEPTH b= 3"
FOR BRICKS LAID ON EDGE DEPTH b= 3-7/8"

DROP SLAB AREAS TO BE NO GREATER THAN 400SF WITHOUT EXPANSION JOINTS OR AS SHOWN ON PLANS.

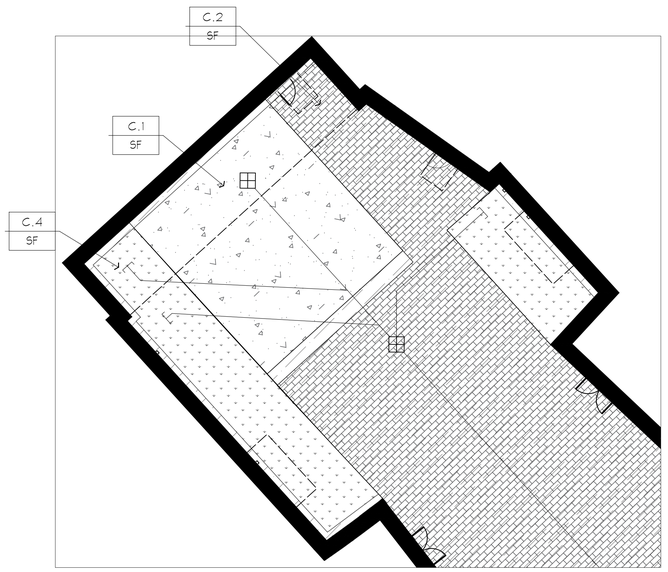


D / L1.2 BRICK PAVER CONCRETE CONTAINMENT EDGE
SCALE: NOT TO SCALE - COORDINATE WITH ARCH



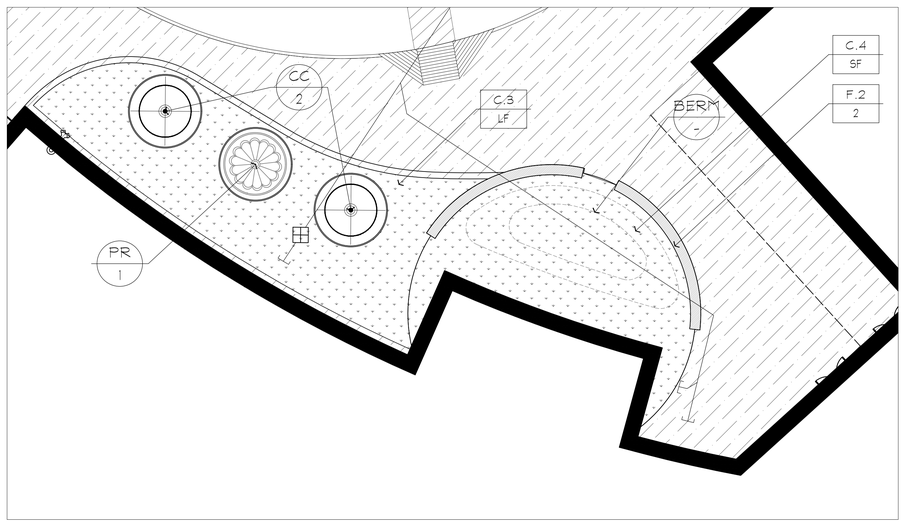
2 / L1.2 ENLARGEMENT OF PLAYGROUND LANDSCAPE PLAN
SCALE: 1" = 10'-0"

0 1' 5' 10' 20'
SCALE: 1"=10'



3 / L1.1 ENLARGEMENT OF COURTYARD
SCALE: 1" = 10'-0"

0 1' 5' 10' 20'
SCALE: 1"=10'



1 / L1.1 ENLARGEMENT OF ENTRANCE LANDSCAPE
SCALE: 1" = 10'-0"

0 1' 5' 10' 20'
SCALE: 1"=10'

Owner's Responsibility For Maintenance
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All drainage (surface and subsurface) of all landscape areas within the project limits shall be the responsibility of the installing landscape contractor and landscape maintenance company. All grading of areas along all building areas must absolutely have positive slope away from building. In no case shall any plant bed be constructed along edge of building that will impede water flow away from building. If planting beds are located at edges of building, landscape contractor shall make sure that these areas drain properly (surface and subsurface-wise). Contractor shall install moisture barrier along building as necessary to keep water from penetrating underneath building slab.

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

Wong & Associates, Inc.
P.O. Box 2026
Bellaire, Texas 77402-2026
Tel: 713-777-5198 Cell: 713-557-5298
Member: American Society of Landscape Architects

Huckabee
www.huckabee-inc.com
800.687.1229

ENLARGEMENT LANDSCAPE PLAN
VOLUME 01

Job No.	Sheet No.
00802-04-01	L1.2
Drawn By: EW/SR	
Date: 07.15.26	

DD QC

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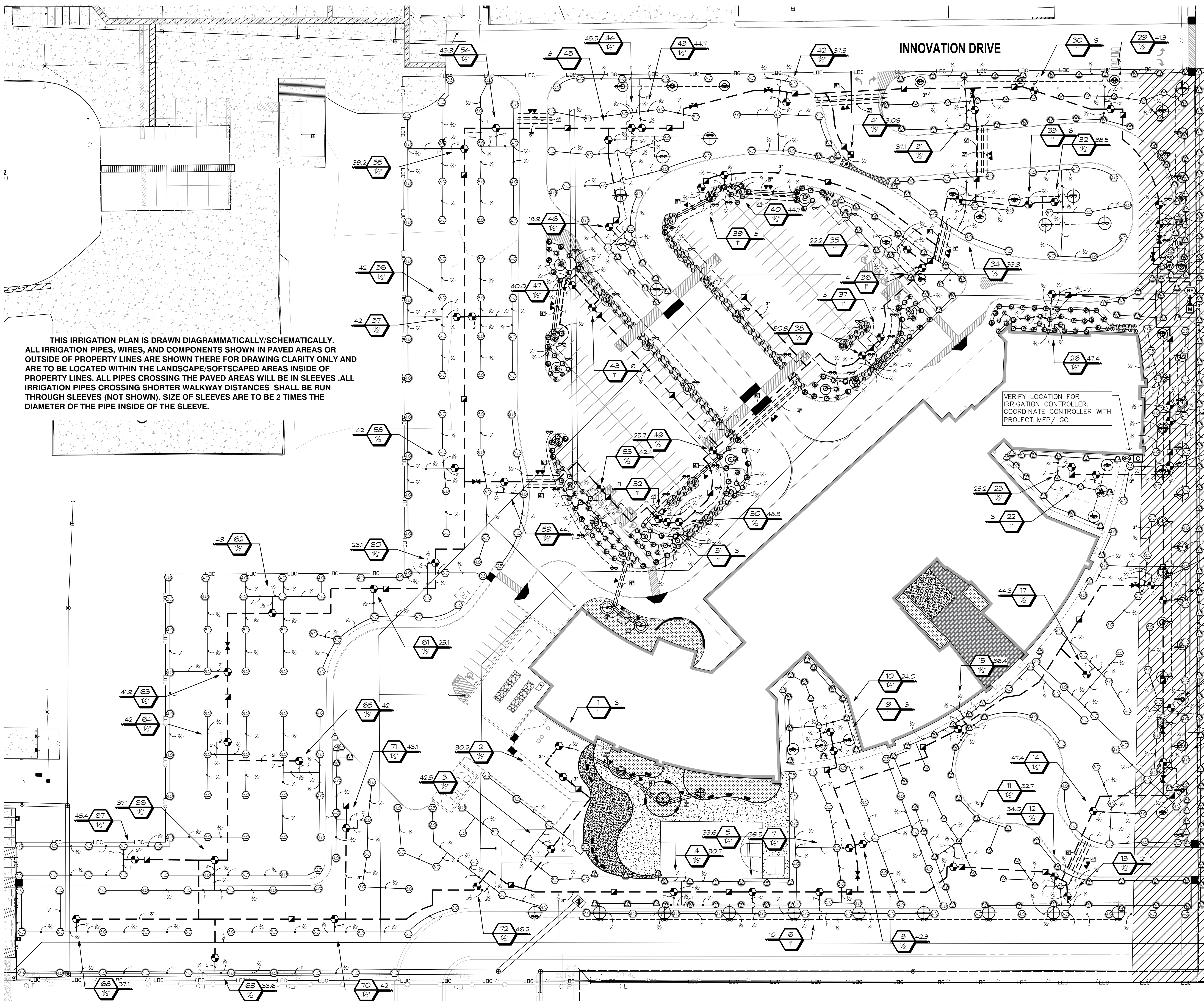
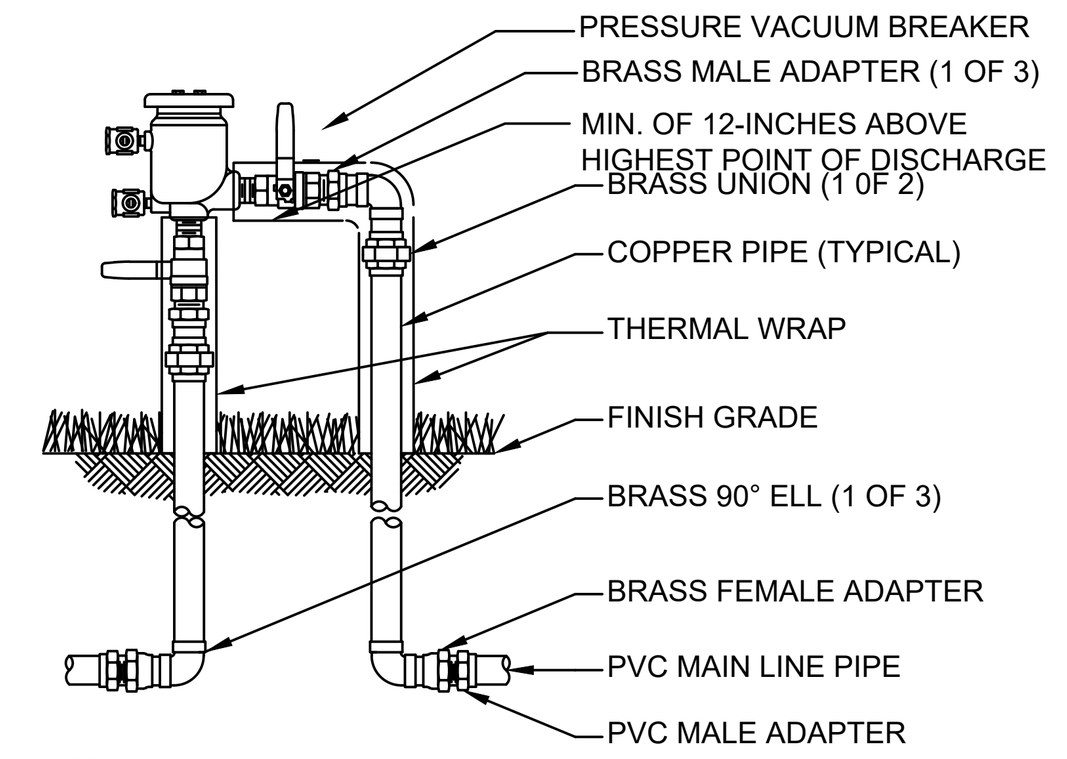
Irrigation General Notes:

1. ALL materials and equipment shall conform to all applicable State of Texas, City and County codes.
2. The irrigation contractor shall be responsible for securing all permits prior to actual work on site.
3. The intent of the 100% coverage of all landscape areas.
4. Prior to commencement of work, the irrigation contractor shall contact the Owner to coordinate all required inspections.
5. Extreme care shall be exercised in excavating and working near existing utility easements. The irrigation contractor shall be responsible for the verification of all utility locations (telephone, TV, gas electrical, water, cable, etc.). The irrigation contractor shall be responsible for all damages inflicted on any and all utility lines.
6. The Irrigation contractor shall at all times protect his work from damage and theft and replace all damaged or stolen parts at his expense until receipt of the Certificate of Substantial Completion from the Owner.
   The Irrigation contractor shall flush and adjust the system for optimum performance. This shall include regulating the pressure at each valve to obtain the optimum operating pressure for each system.
7. Use glue joints in mainline passing through sleeves under pavement. PVC sleeves shall be Schedule 40 and shall extend 24" out of the nearest existing pavement areas for easy location. The irrigation contractor shall be responsible for coordinate all sleeve locations on the project site with the Owner and/or general contractor.
8. The irrigation contractor shall also comply to these additional special requirements to the irrigation system shall include the following.
   a. All mainlines shall have a minimum of 18" of cover **(Sch. 40 PVC Pipe.)**.
   b. All lateral and sub-main pipe to have a minimum of 12" of cover **(Class 200 PVC Pipe.)**.
   c. No rocks, boulders or other extraneous materials shall be used for backfilling of trenches.
   d. All pipes to be installed as per manufacturer's specifications.
   e. All threaded joints to be coated with Teflon tape or Liquid Teflon.
   f. All lines to be thouroughly flushed before installation of any sprinkler heads.
   g. Sprinkler and related equipments shall be installed as per manufacturer's specification.
   h. No electrical connections shall be made in the field except at a valve control box or another valve box specifically for connections.
   i. All 24 volt control wire shall be No. 14/UF/UL AWG 2 - Wire Cable for Zone Wires per controller manufacturer's recommendations, direct burial .
   j. The irrigation contractor shall be responsible for proper coverage of areas to be watered; i.e. adjust heads with insufficient coverage due to blockage by existing or proposed site features or sizing down sprinkler heads to avoid excessive overthrow.
   k. The irrigation contractor shall refer to landscape planting plan to keep sprinkler equipments and accessory materials from interfering with proper planting; i.e. Verify rootball size for planting; configuration of shrub/groundcover beds, etc.
   l. The irrigation contractor shall provide expansion coils at each wire connection in valve box (wrap around 3/4" pipe 12 times).
   m. The irrigation contractor shall utilize appropriate automatic drain device where low head drainage may occur.
   n. All sprinkler heads shall be mounted on swing joints unless otherwise noted.
   o. The irrigation contractor shall install a separate common for each controller.
   p. The irrigation contractor shall install manufacturer's recommended grounding equipment for power supply and valve output with (2) 5/8" copper clad ground rods.
   q. The irrigation contractor shall install manufacturer's recommendation on fault ground and lightning protection.
   r. The irrigation contractor shall furnish the owner with the following : 2 wrenches for disassembling and adjusting each type of sprinkler heads and valves + 2 keys for the automatic controller +2 quick coupler keys with matching hose swivels.
   s. The irrigation contractor shall add extension risers to pop up sprinklers when needed for proper coverage. Coordinate with landscape contractor as to where risers for sprinkler heads are required.
   t. The irrigation contractor shall install sprinkler equipments 12" from all buildings foundations and install sprinklers 4" from any curbs or walkways.
   u. The irrigation backflow prevention device shall be installed within areas of proposed shrub plantings. The purpose of this is to keep the device screened from view.
9. The entire irrigation system (labor and materials) shall be guaranteed and warranted for a period of one year. The warranty period shall commenced upon final acceptance by Owner of all landscape and irrigation works.
10. The irrigation contractor for the project must be licensed to do business within the State of Texas , as required by TCEQ."
11. This irrigation plan is diagrammatic only. Irrigation contractor shall provide final irrigation design layout plan complete with licensed irrigator's seal and signature. All applicable design calculations shall be shown on their irrigation plan to comply with all TCEQ requirements.
12. **Irrigation Contractor to confirm static water pressure at Point of Connection before starting work. If static water pressure is below "Critical Station Pressure at P.O.C." on the "Critical Analysis" on Sht. IR1.2 contact Landscape Architect before proceeding with work.**
13. **Trenching within the drip-line of existing trees shall not employ the use of mechanical trenching devices. Hand dig without severing roots which exceed 1/2" in diameter. It is the Irrigation Contracors responsibility to protect all existing trees from damages from all work involved with the installation of the irrigation system. Irrigation plan is diagramatic, Irrigation Contractor to confirm routing of trenching with owners representative and get their approval before any trenching begins. Irrigation contractor is ultimately responsible for preventing damage to existing trees from system installation .**

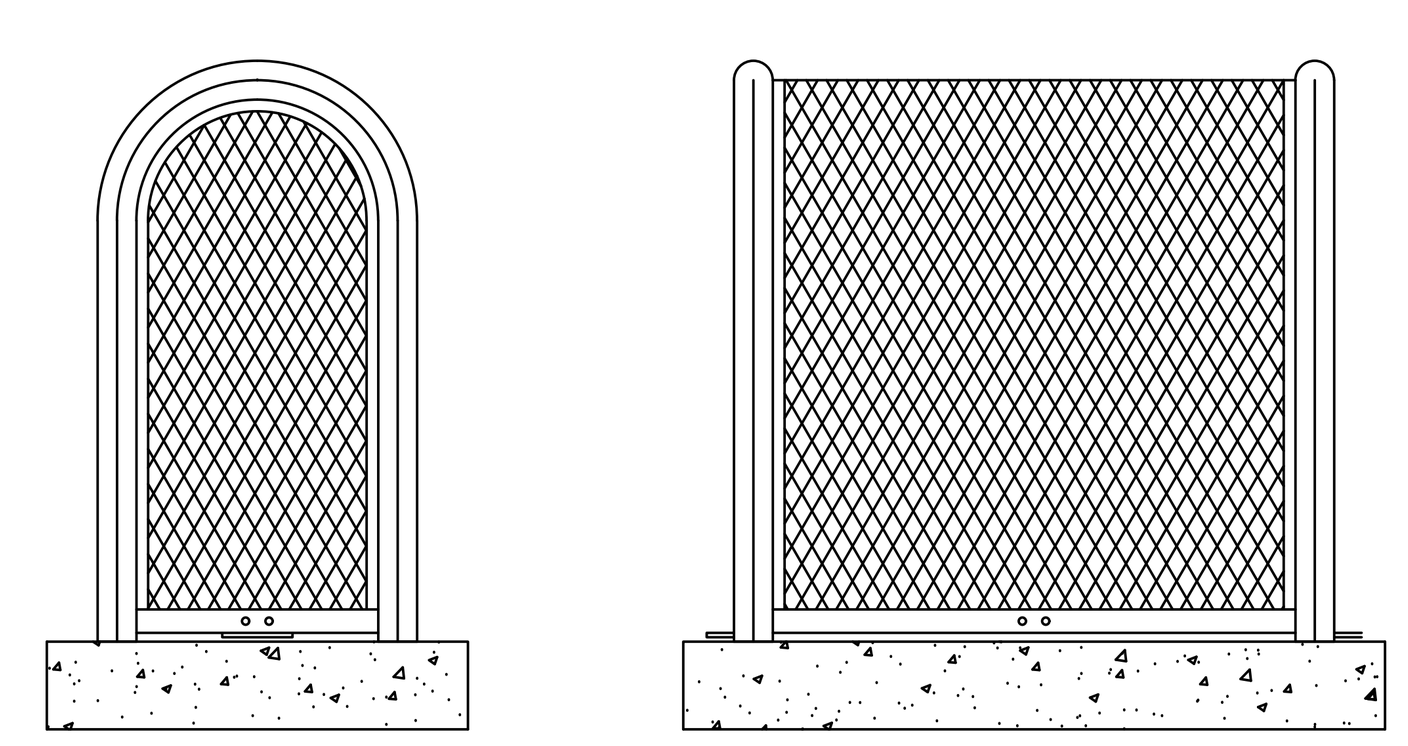
THIS IRRIGATION PLAN IS DRAWN DIAGRAMMATICALLY/SCHEMATICALLY. ALL IRRIGATION PIPES, WIRES, AND COMPONENTS SHOWN IN PAVED AREAS OR OUTSIDE OF PROPERTY LINES ARE SHOWN THERE FOR DRAWING CLARITY ONLY AND ARE TO BE LOCATED WITHIN THE LANDSCAPE/SOFTSCAPED AREAS INSIDE OF PROPERTY LINES. ALL PIPES CROSSING THE PAVED AREAS WILL BE IN SLEEVES .ALL IRRIGATION PIPES CROSSING SHORTER WALKWAY DISTANCES SHALL BE RUN THROUGH SLEEVES (NOT SHOWN). SIZE OF SLEEVES ARE TO BE 2 TIMES THE DIAMETER OF THE PIPE INSIDE OF THE SLEEVE.





NOTE:
1. INSTALL BACK FLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION. DOUBLE CHECK VALVE ASSEMBLY MAY BE REQUIRED

A / IR1.1 — **FEBCO 2" PRESSURE VACUUM BREAKER**
SCALE: NOT TO SCALE



STANDARD GUARDSHACK™ ENCLOSURES
INSTALL PER GUARDSHACK GUIDELINES AND SPECIFICATIONS

B / IR1.1 — **GUARDSHACK BACKFLOW ENCLOSURE**
SCALE: NOT TO SCALE

IRRIGATION IN TEXAS IS REGULATED BY:
THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)
MC-178 / PO BOX 18087
AUSTIN, TEXAS 78711-3087
WWW.TCEQ.STATE.TX.US.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CALL UTILITY LOCATES AND REFER TO CIVIL AND MEP PLANS

DESIGN DISCLAIMER:

This irrigation drawing is a preliminary layout. It is a diagrammatic representation for purpose of providing a basic depiction of the scope of coverage, initial valve zoning, with head type and placement. The Irrigation drawing does not provide necessary zone flow, hydraulic calculations to determine Design Pressure. These are defined in Texas Administrative Code*§§344.61 Minimum Standards for Design of the Irrigation Plan* , and required by the T.C.E.Q for a complete Irrigation Plan and for Permit and Construction. It will be the responsibility of the installing licensed irrigator or irrigator-in-charge, to use information provided on this Preliminary Irrigation drawing, to provide a final Irrigation Plan meeting all standards as required by T.C.E.Q, Signed and Sealed.

Wong & Associates, Inc. shall not be responsible and accepts no liability for design failure, inaccurate head layout, incorrect hydro-zoning, pipe sizing, zone flow or hydraulic calculations, irrigation equipment, or aspects of the preliminary design drawing not in compliance with local irrigation regulations. The irrigation contractor shall be ultimately responsible for the final design, installation and proper operation of the irrigation system.

Disclaimer

Wong & Associates, Inc. shall not be responsible for the operation and/or maintenance of this irrigation system, once the date of final acceptance by the owner is established. All grades and elevations on the project shall be set by the project civil engineer. The Owner shall be responsible for the monitoring and the maintaining of the irrigation system. Monthly moisture sensor tests of all sprinkler zones around all building pads and on entire property, shall be performed by the Owner to ensure that no over-watering and/or any irrigation system leaks are present. The irrigation contractor shall be responsible for providing all guarantee and warranties for the irrigation system. The irrigation contractor shall be ultimately responsible for the installation and proper operation of the irrigation system.

1 / L2.1 — **IRRIGATION PLAN**
SCALE: 1" = 40'-0"

0 10' 20' 40' 80'
SCALE: 1"=40'

Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

STATE OF TEXAS — LESLIE V SHOUR — 1531 — LICENSED IRRIGATOR
06/15/2026

Wong & Associates, Inc.
P.O. Box 2028 Bellaire, Texas 77402-2028
Tel. 713-777-9198 Cell : 713-557-9298
Member: American Society of Landscape Architects

www.huckabee-inc.com
800.687.1229

IRRIGATION PLAN

VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: EW/SR	IR1.1
Date: -	

DD QC

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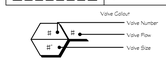
IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS
6	Rain Bird 1804-SAM-PRS 05H Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	180	30	0.2	5'
6	Rain Bird 1804-SAM-PRS 05Q Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	90	30	0.1	5'
8	Rain Bird 1804-SAM-PRS 08F Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	360	30	1.05	8'
8	Rain Bird 1804-SAM-PRS 08H Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	180	30	0.52	8'
8	Rain Bird 1804-SAM-PRS 08Q Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	90	30	0.26	8'
8	Rain Bird 1804-SAM-PRS 08T Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	120	30	0.35	8'
10	Rain Bird 1804-SAM-PRS 10F Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	360	30	1.58	10'
10	Rain Bird 1804-SAM-PRS 10H Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	180	30	0.79	10'
10	Rain Bird 1804-SAM-PRS 10Q Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	90	30	0.39	10'
12	Rain Bird 1804-SAM-PRS 12F Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	360	30	2.37	12'
12	Rain Bird 1804-SAM-PRS 12H Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	180	30	1.3	12'
12	Rain Bird 1804-SAM-PRS 12Q Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	90	30	0.65	12'
12	Rain Bird 1804-SAM-PRS 12TQ Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	270	30	1.95	12'
15	Rain Bird 1804-SAM-PRS 15F Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	360	30	3.7	15'
15	Rain Bird 1804-SAM-PRS 15H Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	180	30	1.85	15'
15	Rain Bird 1804-SAM-PRS 15Q Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	90	30	0.92	15'
12	Rain Bird 1804-SAM-PRS 12V Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	Adj	30	≤ 2.38	12'
15	Rain Bird 1804-SAM-PRS 15V Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	Adj	30	≤ 3.67	15'
18	Rain Bird 1804-SAM-PRS 18V Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	Adj	30	≤ 5.33	18'
△	Hunter MP Corner PROS-04-PRS40-CV T Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS40 body.	Adj	40		14'
△	Hunter MP Strip PROS-04-PRS40-CV LCS Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. LCS=Ivory left strip, SS=Brown side strip, RCS=Copper right strip.	LCS	40	0.22	5'x15'
△	Hunter MP1000 PROS-04-PRS40-CV M Turf Rotator, 4in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	90-210	40		14'
△	Hunter MP1000 PROS-04-PRS40-CV O Turf Rotator, 4in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	360	40	0.84	14'
△	Hunter MP2000 PROS-04-PRS40-CV G Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	210-270	40		19'
△	Hunter MP2000 PROS-04-PRS40-CV K Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	90-210	40		19'
△	Hunter MP2000 PROS-04-PRS40-CV R Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	360	40	1.48	19'
31	Hunter MP3000 PROS-04-PRS30-CV (2) A Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	360	30	3.15	27'
△	Hunter MP3000 PROS-04-PRS40-CV A Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	360	40	3.64	30'
△	Hunter MP3000 PROS-04-PRS40-CV B Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	90-210	40		30'
△	Hunter MP3000 PROS-04-PRS40-CV Y Turf Rotator, 4in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	210-270	40		30'
35	Hunter MP3500 PROS-04-PRS40-CV LB Turf Rotator, 4in. Pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. LB=light brown adjustable arc, 90-210.	90-210	40		35'
◒	Rain Bird 1804-SAM-1400 Flood 1402 Flood Bubbler 4.0in. popup with check valve. Install w/ PA-80 adapter.	360	20	0.5	3'

IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		PSI	GPM	RADIUS
⬡	Hunter I-20-04 (2) 2.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	1.7	33'
⬡	Hunter I-20-04 (2) 2.5 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	2.1	35'
⬡	Hunter I-20-04 (2) 3.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	2.7	36'
⬡	Hunter I-20-04 (2) 4.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	3.5	39'
⬡	Hunter I-20-04 (2) 5.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	4.5	39'
⬡	Hunter I-20-04 (2) 6.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	5.6	40'
⬡	Hunter I-20-04 (2) 8.0 Turf Rotor, 4in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.		35	7	41'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
⧓	Rain Bird XCZ-100-PRB-COM 1" Wide Flow Drip Control Kit for Commercial Applications. 1in. Ball Valve with 1in. PESB Valve and 1in. Pressure Regulating 40psi Quick-Check Basket Filter. 5 GPM-20 GPM.				
◉	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6in. drip box.				
BED	Area to Receive Dripline Rain Bird XFS-CV-06-12 XFS-CV Sub-Surface and On-Surface Landscape Dripline with a Heavy-Duty 4.3 psi Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Specify XF insert fittings.				
GRASS					
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
◔	Rain Bird PEB-IVM (2) 1-1/2" 1in., 1-1/2in., 2in. Plastic Industrial Smart Valves w/ Factory Installed IVM-SOL. Low Flow Operating Capability, Globe Configuration.				
◔	Rain Bird PEB-IVM (2) 1" 1in., 1-1/2in., 2in. Plastic Industrial Smart Valves w/ Factory Installed IVM-SOL. Low Flow Operating Capability, Globe Configuration.				
◪	Rain Bird 33-DNP 3/4" 3/4in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Non-Potable Purple Rubber Cover, and 2-Piece Body.				
⋈	Landscape Products Inc. BGV 1/2in., 3/4in., 1in., 1-1/4in., 1-1/2in., 2in., 2-1/2in., 3in., 4in. Brass Gate Valve. Threaded bonnet, Non-rising stem, Pressure rated to 200 psi. Same size as mainline.				
MV	Superior 3200 2" Normally Closed Brass Master Valve that Provides Dirty Water Protection and No Minimum Flow Feature, which ensures reliable opening and closing of the valve in extreme high or low flow scenarios. Available in 3/4in.,1in.1-1/2in.,2in.,2-1/2in. and 3in..				
BF	Febco 765 2" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12in. above highest downstream outlet and the highest point in the downstream piping.				
C	Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet. System Requirements: Rain Bird LXIVM-XXX Integrated Valve Modules & 2-Wire Devices. Use Paige Electric Cable P707/2D & Rain Bird WC20 Dry Splices ONLY. Ground System w/ (X) LXIVMSD Surge Device in Rain Bird Round Valve Boxes. Install Per Manufacturers Recommendations.				
RFS	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.				
FS	Rain Bird UFS-150 (2) 1-1/2in. Ultrasonic Flow Sensors, with Glass Filled Nylon Body. Operating Range 0.5 GPM to 100 GPM Size for Flow Not According to Pipe Size.				
M	Water Meter 2"				
	Irrigation Lateral Line: PVC Class 200 SDR 21				
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 2 1/2"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"				
	Irrigation Mainline: PVC Schedule 40				
	Irrigation Mainline: PVC Schedule 40 3"				
	Pipe Sleeve: PVC Schedule 40				



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	VELOCITY	FRICTION LOSS	VALVE LOSS	PSI	PSI LESS VALVE LOSS	PSI @ POC	RESIDUAL PSI	PRECIP
1	Rain Bird PEB-IVM (2)	1"	Bubbler	3	20	4 Ft.sec.	0.49	1.5	22.0	20.5	26.1	32.9	2.01 in/h
2	Rain Bird PEB-IVM (2)	1-1/2"	Bubbler	30.19	40	4 Ft.sec.	1.37	3.6	45.0	41.4	50.3	8.75	0.64 in/h
3	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42.5	35	4 Ft.sec.	1.83	3.53	40.4	36.8	46.8	12.2	0.55 in/h
4	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	30.71	40	4 Ft.sec.	1.47	3.59	45.1	41.5	50.2	8.81	0.57 in/h
5	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	33.6	35	4 Ft.sec.	2.64	3.56	41.2	37.6	46.5	12.5	0.5 in/h
6	Rain Bird PEB-IVM (2)	1"	Bubbler	10	20	4 Ft.sec.	1.99	1.8	23.8	22.0	28.0	31.0	2.01 in/h
7	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	39.5	35	4 Ft.sec.	2.16	3.51	40.7	37.2	46.5	12.5	0.56 in/h
8	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42.3	35	4 Ft.sec.	1.21	3.52	39.7	36.2	45.9	13.1	0.51 in/h
9	Rain Bird PEB-IVM (2)	1"	Bubbler	3	20	4 Ft.sec.	0.14	1.5	21.6	20.1	25.8	33.2	2.01 in/h
10	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	24.05	40	4 Ft.sec.	1.34	3.78	45.1	41.3	49.8	9.22	0.5 in/h
11	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	32.73	40	4 Ft.sec.	1.2	3.57	44.8	41.2	50	9	0.39 in/h
12	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	34.0	40	4 Ft.sec.	1.6	3.56	45.2	41.6	50.5	8.52	0.35 in/h
13	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	21	35	3.5 Ft.sec.	2.06	3.87	40.9	37.1	45.4	13.6	0.59 in/h
14	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	47.4	35	4 Ft.sec.	1.89	3.57	40.5	36.9	47.2	11.8	0.63 in/h
15	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	36.44	35	4 Ft.sec.	3.11	3.54	41.6	38.1	47.2	11.8	0.54 in/h
16	Rain Bird PEB-IVM (2)	1"	Bubbler	7	20	4 Ft.sec.	0.47	1.74	22.2	20.5	26.4	32.6	2.02 in/h
17	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	44.32	35	4 Ft.sec.	1.82	3.54	40.4	36.8	46.8	12.2	0.57 in/h
18	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	48.89	35	4 Ft.sec.	1.65	3.59	40.2	36.6	47.2	11.8	0.59 in/h
19	Rain Bird PEB-IVM (2)	1"	Bubbler	7	20	4 Ft.sec.	0.42	1.74	22.2	20.4	26.3	32.7	2.02 in/h
20	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	49.74	35	4 Ft.sec.	1.29	3.6	39.9	36.3	46.8	12.2	0.51 in/h
21	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	32.09	40	2 Ft.sec.	1.7	3.58	45.3	41.7	50.4	8.63	0.22 in/h
22	Rain Bird PEB-IVM (2)	1"	Bubbler	3	20	4 Ft.sec.	0.12	1.5	21.6	20.1	25.8	33.3	2.02 in/h
23	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	25.19	40	4 Ft.sec.	1.3	3.74	45.0	41.3	49.8	9.23	0.52 in/h
24	Rain Bird PEB-IVM (2)	1"	Bubbler	8	20	4 Ft.sec.	0.58	1.76	22.3	20.6	26.5	32.5	2.02 in/h
25	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	46.1	35	4 Ft.sec.	1.91	3.56	40.5	36.9	46.8	12.2	0.83 in/h
26	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	47.41	30	4 Ft.sec.	1.76	3.57	35.3	31.8	41.8	17.2	1.85 in/h
27	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	24.87	40	3.5 Ft.sec.	1.93	3.75	45.7	41.9	50.2	8.82	0.43 in/h
28	Rain Bird PEB-IVM (2)	1"	Bubbler	6	20	4 Ft.sec.	0.29	1.72	22.0	20.3	26.1	32.9	2.02 in/h
29	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	41.31	40	4 Ft.sec.	1.32	3.51	44.8	41.3	50.6	8.39	0.5 in/h
30	Rain Bird PEB-IVM (2)	1"	Bubbler	6	20	4 Ft.sec.	1.32	1.72	23.0	21.3	27.2	31.8	2.02 in/h
31	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotary	37.11	40	4 Ft.sec.	1.34	3.53	44.9	41.3	50.4	8.61	0.43 in/h
32	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	38.5	35	4 Ft.sec.	2	3.52	40.5	37.0	46.4	12.7	0.54 in/h
33	Rain Bird PEB-IVM (2)	1"	Bubbler	6	20	4 Ft.sec.	0.32	1.72	22.0	20.3	26.2	32.8	2.02 in/h
34	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	33.91	40	4 Ft.sec.	1.24	3.56	44.8	41.2	50.1	8.87	0.53 in/h
35	Rain Bird PEB-IVM (2)	1"	Turf Rotary	22.23	40	4 Ft.sec.	1.73	3.5	45.2	41.7	49.8	9.23	0.5 in/h
36	Rain Bird PEB-IVM (2)	1"	Bubbler	4	20	4 Ft.sec.	0.42	1.6	22.0	20.4	26.2	32.8	2.01 in/h
37	Rain Bird PEB-IVM (2)	1"	Bubbler	8	20	4 Ft.sec.	0.73	1.76	22.5	20.7	26.7	32.3	2.01 in/h
38	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	50.9	30	4 Ft.sec.	1.48	3.66	35.1	31.5	42.6	16.5	1.93 in/h
39	Rain Bird PEB-IVM (2)	1"	Bubbler	5	20	4 Ft.sec.	0.62	1.7	22.3	20.6	26.5	32.5	2.01 in/h
40	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	44.66	30	3.7 Ft.sec.	2.74	3.55	36.3	32.7	43.2	15.8	1.72 in/h
41	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	3.06	30	4 Ft.sec.	0.06	5	35.1	30.1	39.2	19.8	1.5 in/h
42	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	37.46	35	4 Ft.sec.	1.43	3.53	40.0	36.4	45.6	13.4	0.48 in/h
43	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	44.7	35	4 Ft.sec.	2.05	3.55	40.6	37.0	47.2	11.8	0.68 in/h
44	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	45.5	35	4 Ft.sec.	1.91	3.56	40.5	36.9	47.2	11.9	0.57 in/h
45	Rain Bird PEB-IVM (2)	1"	Bubbler	8	20	4 Ft.sec.	0.86	1.76	22.6	20.9	26.8	32.2	2.01 in/h
46	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	18.87	40	4 Ft.sec.	0.7	3.9	44.6	40.7	49.0	9.99	0.58 in/h
47	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	39.99	30	4 Ft.sec.	1.73	3.5	35.2	31.7	41.6	17.4	1.97 in/h
48	Rain Bird PEB-IVM (2)	1"	Bubbler	6	20	4 Ft.sec.	0.77	1.72	22.5	20.8	26.7	32.4	2.01 in/h
49	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	25.67	30	4 Ft.sec.	2.29	3.73	36.0	32.3	40.8	18.2	1.68 in/h
50	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	48.78	30	4 Ft.sec.	1.55	3.59	35.1	31.6	42.3	16.7	1.82 in/h
51	Rain Bird PEB-IVM (2)	1"	Bubbler	3	20	4 Ft.sec.	0.73	1.5	22.2	20.7	26.4	32.6	2.01 in/h
52	Rain Bird PEB-IVM (2)	1"	Bubbler	11	20	4 Ft.sec.	1.39	1.91	23.3	21.4	27.5	31.5	2.01 in/h
53	Rain Bird PEB-IVM (2)	1-1/2"	Turf Spray	42.35	30	4 Ft.sec.	1.2	3.52	34.7	31.2	41.0	18.0	1.82 in/h
54	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	43.9	35	4 Ft.sec.	1.75	3.54	40.3	36.8	46.8	12.2	0.57 in/h
55	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	39.2	35	4 Ft.sec.	2.06	3.51	40.6	37.1	46.5	12.5	0.61 in/h
56	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	1.2	3.52	39.7	36.2	46.0	13.0	0.58 in/h
57	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	1.26	3.52	39.8	36.3	46.1	13.0	0.56 in/h
58	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	1.32	3.52	39.8	36.3	46.1	12.9	0.54 in/h
59	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	44.1	35	4 Ft.sec.	1.77	3.54	40.3	36.8	46.8	12.2	0.6 in/h
60	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	23.1	35	4 Ft.sec.	1.12	3.81	39.9	36.1	44.6	14.5	0.71 in/h
61	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	25.1	35	4 Ft.sec.	1.85	3.75	40.6	36.8	45.4	13.6	0.54 in/h
62	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	49	35	4 Ft.sec.	1.91	3.59	40.5	36.9	47.8	11.2	0.59 in/h
63	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	41.9	35	4 Ft.sec.	2.85	3.52	41.4	37.8	47.8	11.2	0.54 in/h
64	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	1.75	3.52	40.3	36.8	46.7	12.3	0.52 in/h
65	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	1.57	3.52	40.1	36.6	46.7	12.3	0.53 in/h
66	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	37.1	35	4 Ft.sec.	2.13	3.53	40.7	37.1	46.6	12.5	0.48 in/h
67	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	45.4	35	4 Ft.sec.	2.31	3.55	40.9	37.3	48.0	11.1	0.63 in/h
68	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	37.1	35	4 Ft.sec.	1.96	3.53	40.5	37.0	46.5	12.5	0.46 in/h
69	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	33.6	35	4 Ft.sec.	2.61	3.56	41.2	37.6	46.7	12.3	0.47 in/h
70	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	42	35	4 Ft.sec.	2.33	3.52	40.9	37.3	47.2	11.8	0.42 in/h
71	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	43.13	35	4 Ft.sec.	2.21	3.53	40.7	37.2	47.4	11.6	0.58 in/h
72	Rain Bird PEB-IVM (2)	1-1/2"	Turf Rotor	46.2	35	4 Ft.sec.	1.75	3.56	40.3	36.8	47.1	11.9	0.54 in/h

CRITICAL ANALYSIS

Generated: 2026-07-14 13:10

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 2"
Flow Available 70.55 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Elevation Change: 0.00 ft
Service Line Size: 2"
Length of Service Line: 15 ft
Pressure Available: 59 PSI

DESIGN ANALYSIS
Flow Velocity: 5 Ft.sec.
Maximum Station Flow: 50.9 GPM
Flow Available at POC: 70.55 GPM
Residual Flow Available: 70.55 GPM

Critical Station: 29
Design Pressure: 40 PSI
Friction Loss: 1.2 PSI
Fittings Loss: 0.12 PSI
Elevation Loss: 0 PSI
Loss through Valve: 3.51 PSI
Pressure Req. at Critical Station: 44.8 PSI
Loss for Fittings: 0.04 PSI
Loss for Main Line: 0.39 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 3.4 PSI
Loss for Master Valve: 0.57 PSI
Loss for Water Meter: 1.38 PSI
Critical Station Pressure at POC: 50.6 PSI
Pressure Available: 59 PSI
Residual Pressure Available: 8.39 PSI

IRRIGATION IN TEXAS IS REGULATED BY:
THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)
MC-178 / PO BOX 18087
AUSTIN, TEXAS 78711-3087
WWW.TCEQ.STATE.TX.US.

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CALL UTILITY LOCATES AND REFER TO CIVIL AND MEP PLANS

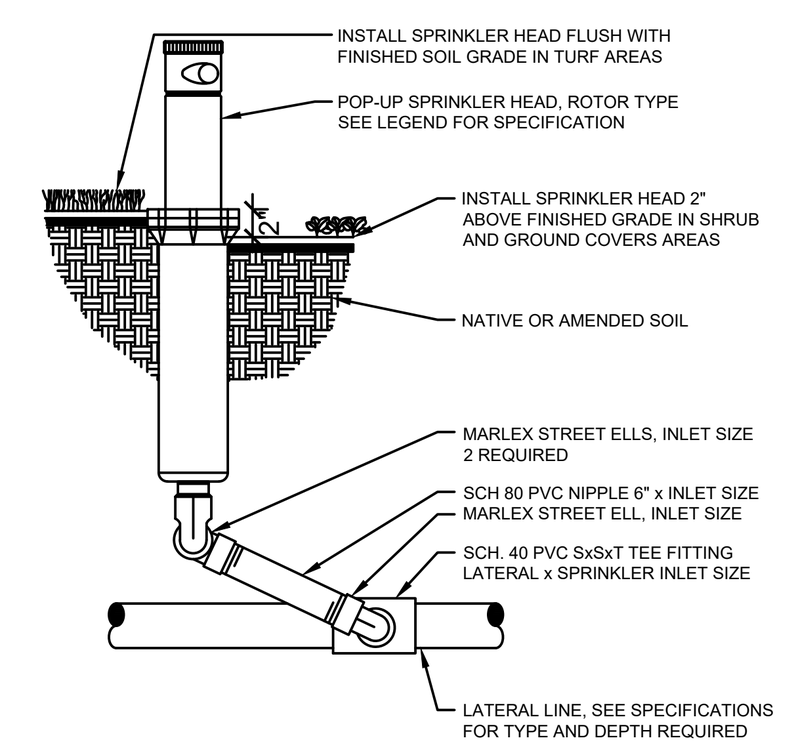
DESIGN DISCLAIMER:

This irrigation drawing is a preliminary layout. It is a diagrammatic representation for purpose of providing a basic depiction of the scope of coverage, initial valve zoning, with head type and placement. The Irrigation drawing does not provide necessary zone flow, hydraulic calculations to determine Design Pressure. These are defined in Texas Administrative Code,*§§344.61 Minimum Standards for Design of the Irrigation Plan* , and required by the T.C.E.Q for a complete Irrigation Plan and for Permit and Construction. It will be the responsibility of the installing licensed irrigator or irrigator-in-charge, to use information provided on this Preliminary Irrigation drawing, to provide a final Irrigation Plan meeting all standards as required by T.C.E.Q, Signed and Sealed.

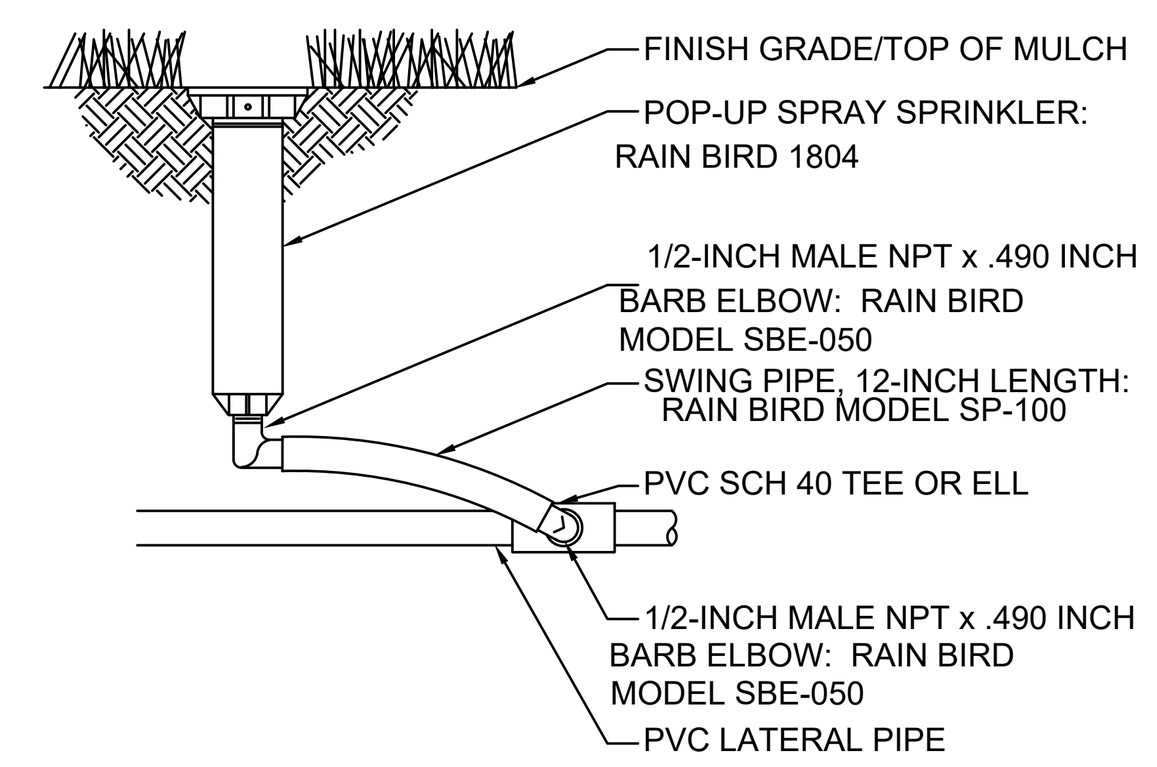
Wong & Associates, Inc. shall not be responsible and accepts no liability for design failure, inaccurate head layout, incorrect hydro-zoning, pipe sizing, zone flow or hydraulic calculations, irrigation equipment, or aspects of

Irrigation General Notes:

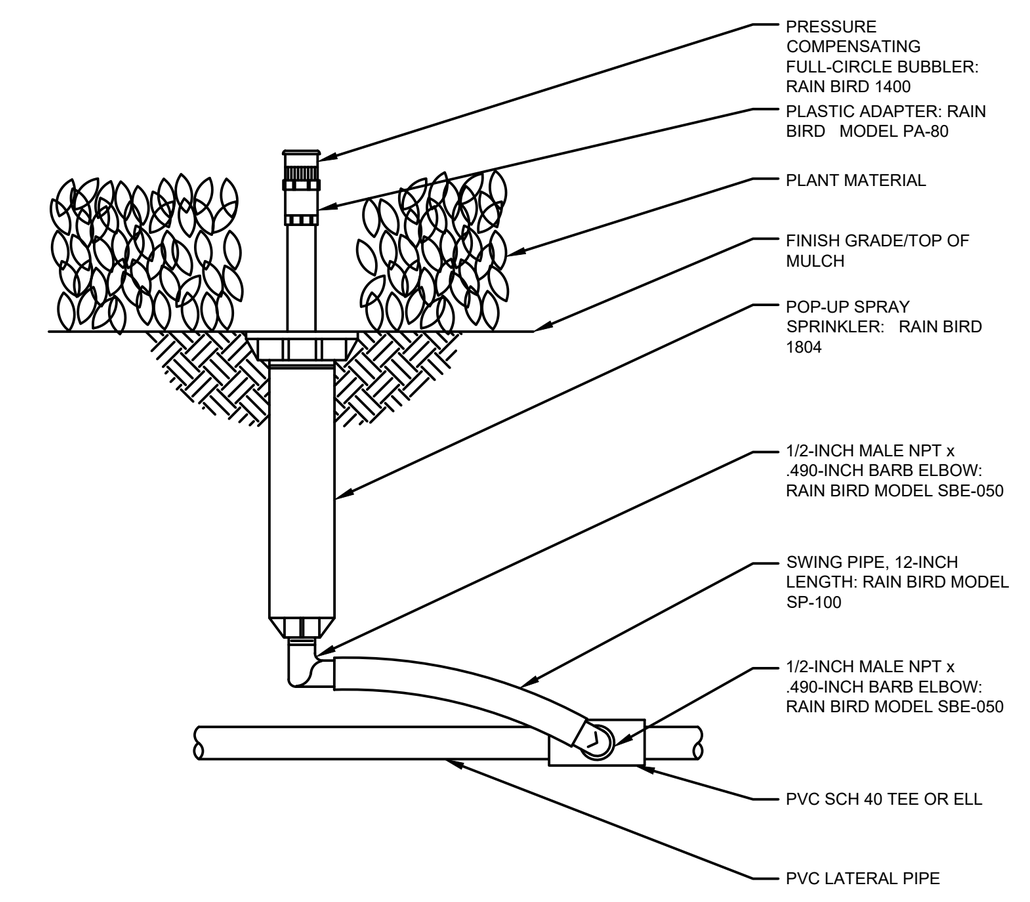
1. ALL materials and equipment shall conform to all applicable State of Texas, City and County codes.
2. The irrigation contractor shall be responsible for securing all permits prior to actual work on site.
3. The intent of the 100% coverage of all landscape areas.
4. Prior to commencement of work, the irrigation contractor shall contact the Owner to coordinate all required inspections.
5. Extreme care shall be exercised in excavating and working near existing utility easements. The irrigation contractor shall be responsible for the verification of all utility locations (telephone, TV, gas electrical, water, cable, etc.). The irrigation contractor shall be responsible for all damages inflicted on any and all utility lines.
6. The Irrigation contractor shall at all times protect his work from damage and theft and replace all damaged or stolen parts at his expense until receipt of the Certificate of Substantial Completion from the Owner.
   The Irrigation contractor shall flush and adjust the system for optimum performance. This shall include regulating the pressure at each valve to obtain the optimum operating pressure for each system.
7. Use glue joints in mainline passing through sleeves under pavement. PVC sleeves shall be Schedule 40 and shall extend 24" out of the nearest existing pavement areas for easy location. The irrigation contractor shall be responsible for coordinate all sleeve locations on the project site with the Owner and/or general contractor.
8. The irrigation contractor shall also comply to these additional special requirements to the irrigation system shall include the following.
   a. All mainlines shall have a minimum of 18" of cover **(Sch. 40 PVC Pipe.)**.
   b. All lateral and sub-main pipe to have a minimum of 12" of cover **(Class 200 PVC Pipe.)**.
   c. No rocks, boulders or other extraneous materials shall be used for backfilling of trenches.
   d. All pipes to be installed as per manufacturer's specifications.
   e. All threaded joints to be coated with Teflon tape or Liquid Teflon.
   f. All lines to be thouroughly flushed before installation of any sprinkler heads.
   g. Sprinkler and related equipments shall be installed as per manufacturer's specification.
   h. No electrical connections shall be made in the field except at a valve control box or another valve box specifically for connections.
   i. All 24 volt control wire shall be No. 14/UF/UL AWG 2 - Wire Cable for Zone Wires per controller manufacturer's recommendations, direct burial .
   j. The irrigation contractor shall be responsible for proper coverage of areas to be watered; i.e. adjust heads with insufficient coverage due to blockage by existing or proposed site features or sizing down sprinkler heads to avoid excessive overthrow.
   k. The irrigation contractor shall refer to landscape planting plan to keep sprinkler equipments and accessory materials from interfering with proper planting; i.e. Verify rootball size for planting; configuration of shrub/groundcover beds, etc.
   l. The irrigation contractor shall provide expansion coils at each wire connection in valve box (wrap around 3/4" pipe 12 times).
   m. The irrigation contractor shall utilize appropriate automatic drain device where low head drainage may occur.
   n. All sprinkler heads shall be mounted on swing joints unless otherwise noted.
   o. The irrigation contractor shall install a separate common for each controller.
   p. The irrigation contractor shall install manufacturer's recommended grounding equipment for power supply and valve output with (2) 5/8" copper clad ground rods.
   q. The irrigation contractor shall install manufacturer's recommendation on fault ground and lightning protection.
   r. The irrigation contractor shall furnish the owner with the following : 2 wrenches for disassembling and adjusting each type of sprinkler heads and valves + 2 keys for the automatic controller +2 quick coupler keys with matching hose swivels.
   s. The irrigation contractor shall add extension risers to pop up sprinklers when needed for proper coverage. Coordinate with landscape contractor as to where risers for sprinkler heads are required.
   t. The irrigation contractor shall install sprinkler equipments 12" from all buildings foundations and install sprinklers 4" from any curbs or walkways.
   u. The irrigation backflow prevention device shall be installed within areas of proposed shrub plantings. The purpose of this is to keep the device screened from view.
9. The entire irrigation system (labor and materials) shall be guaranteed and warranted for a period of one year. The warranty period shall commenced upon final acceptance by Owner of all landscape and irrigation works.
10. The irrigation contractor for the project must be licensed to do business within the State of Texas , as required by TCEQ."
11. This irrigation plan is diagrammatic only. Irrigation contractor shall provide final irrigation design layout plan complete with licensed irrigator's seal and signature. All applicable design calculations shall be shown on their irrigation plan to comply with all TCEQ requirements.
12. **Irrigation Contractor to confirm static water pressure at Point of Connection before starting work. If static water pressure is below "Critical Station Pressure at P.O.C." on the "Critical Analysis" on Sht. IR1.2 contact Landscape Architect before proceeding with work.**
13. **Trenching within the drip-line of existing trees shall not employ the use of mechanical trenching devices. Hand dig without severing roots which exceed 1/2" in diameter. It is the Irrigation Contracors responsibility to protect all existing trees from damages from all work involved with the installation of the irrigation system. Irrigation plan is diagramatic, Irrigation Contractor to confirm routing of trenching with owners representative and get their approval before any trenching begins. Irrigation contractor is ultimately responsible for preventing damage to existing trees from system installation .**



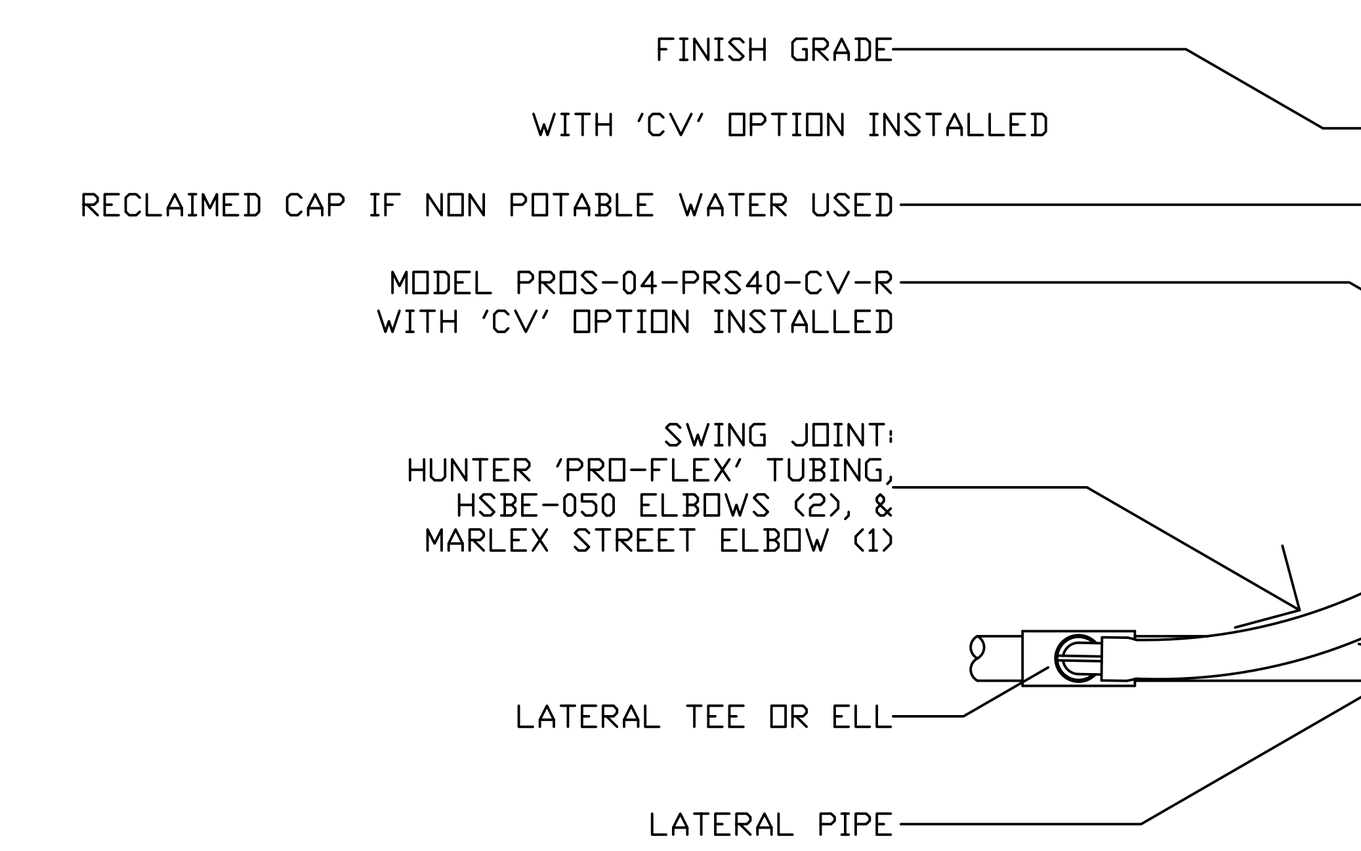
A IR1.3 **POP-UP SPRINKLER ROTOR TYPE (4")**
SCALE: NOT TO SCALE



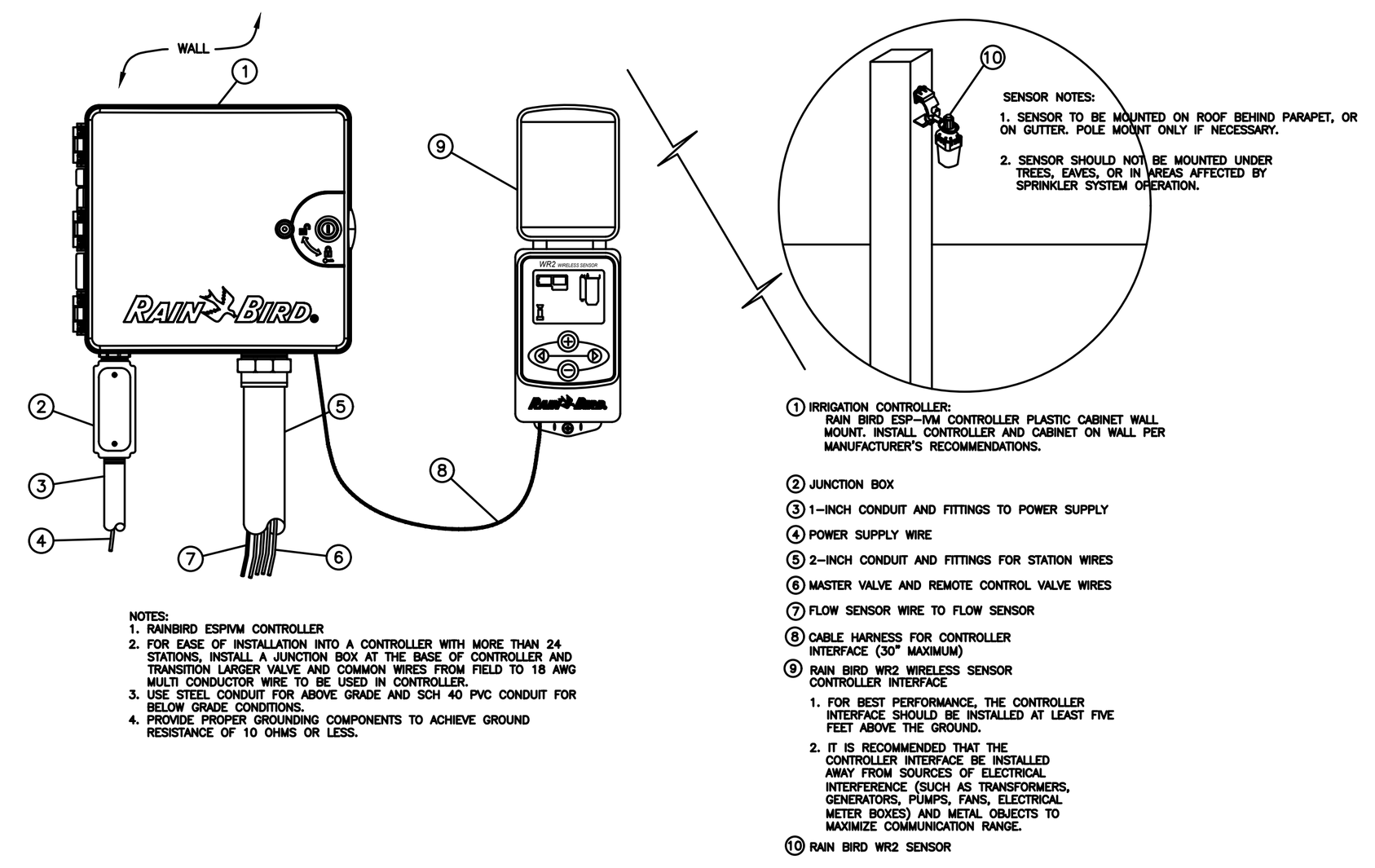
B IR1.3 **POP UP SPRAY HEAD (4")**
SCALE: NOT TO SCALE



C IR1.3 **PRESSURE COMPENSATING FULL-CIRCLE BUBBLER**
SCALE: NOT TO SCALE RAIN BIRD 1400 ON 1804 POP-UP



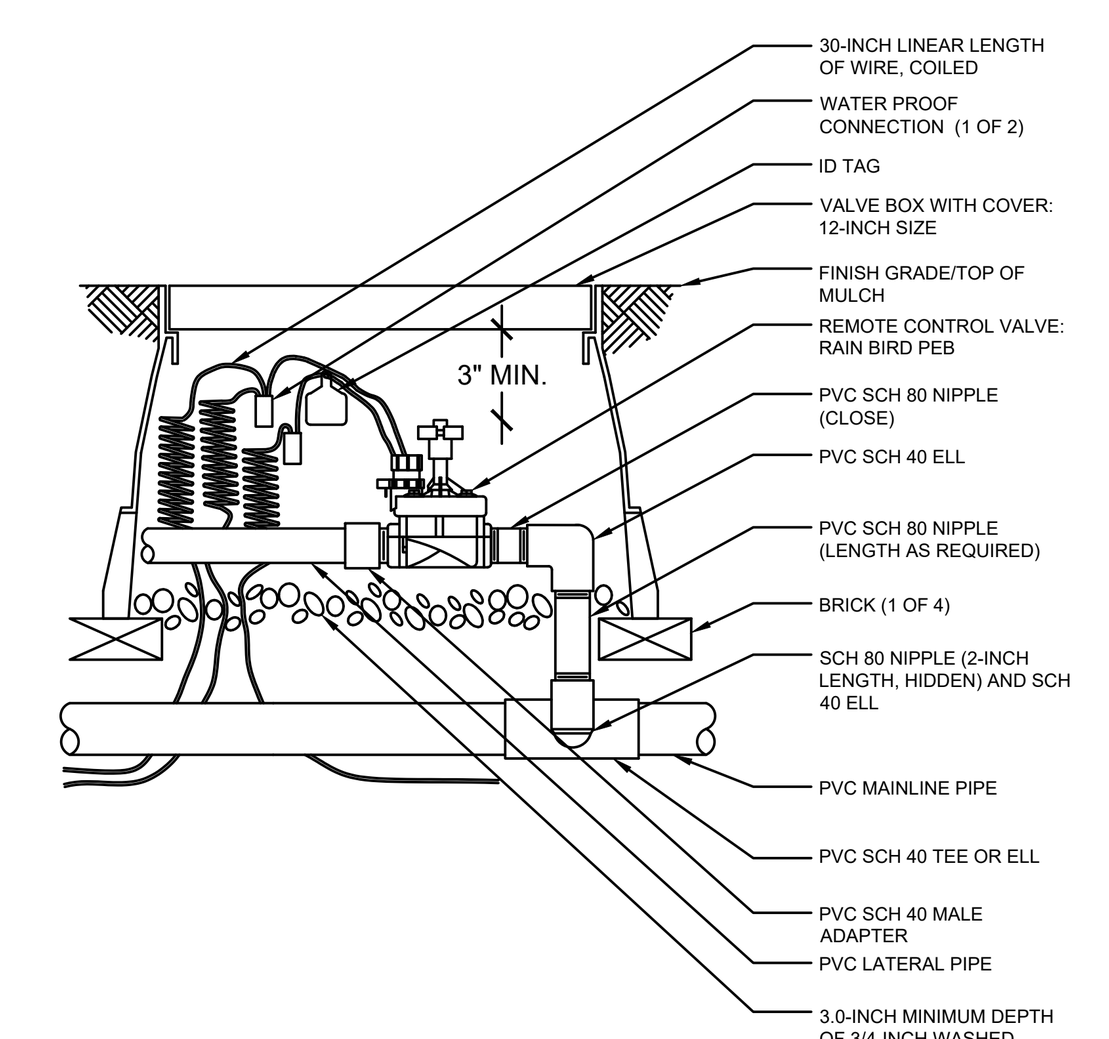
D IR1.3 **HUNTER 4" SPRAY POP-UP W/ MP-ROTATOR**
SCALE: NOT TO SCALE



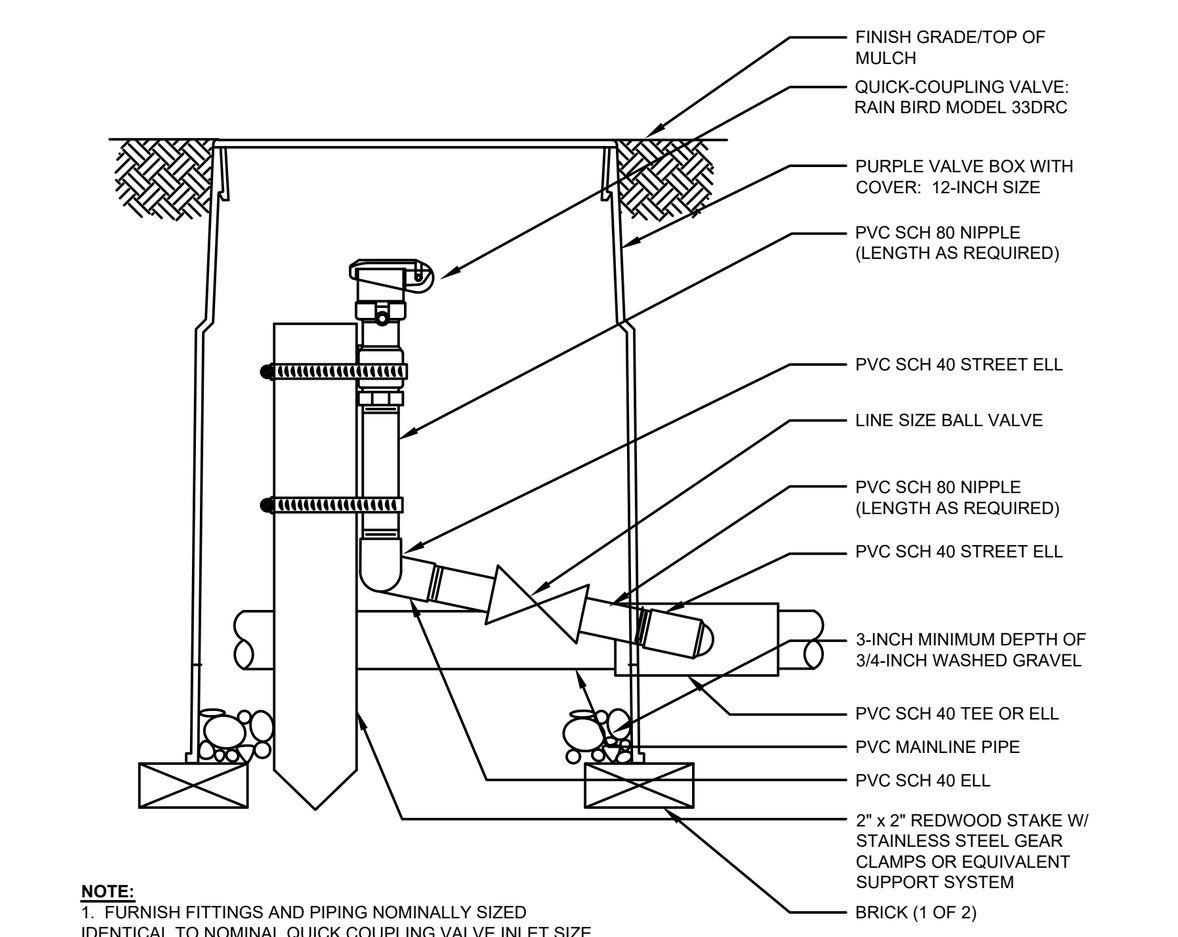
NOTES:
1. RAINBIRD ESPVM CONTROLLER
2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

1. IRRIGATION CONTROLLER: RAIN BIRD ESP-IVM CONTROLLER PLASTIC CABINET WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. MASTER VALVE AND REMOTE CONTROL VALVE WIRES
7. FLOW SENSOR WIRE TO FLOW SENSOR
8. CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAXIMUM)
9. RAIN BIRD WR2 WIRELESS SENSOR CONTROLLER INTERFACE
   1. FOR BEST PERFORMANCE, THE CONTROLLER INTERFACE SHOULD BE INSTALLED AT LEAST FIVE FEET ABOVE THE GROUND.
   2. IT IS RECOMMENDED THAT THE CONTROLLER INTERFACE BE INSTALLED AWAY FROM SOURCES OF ELECTRICAL INTERFERENCE (SUCH AS TRANSFORMERS, GENERATORS, PUMPS, FANS, ELECTRICAL METER BOXES) AND METAL OBJECTS TO MAXIMIZE COMMUNICATION RANGE.
10. RAIN BIRD WR2 SENSOR

E IR1.3 **IRRIGATION CONTROLLER & RAIN/FREEZE SENSOR**
SCALE: NOT TO SCALE

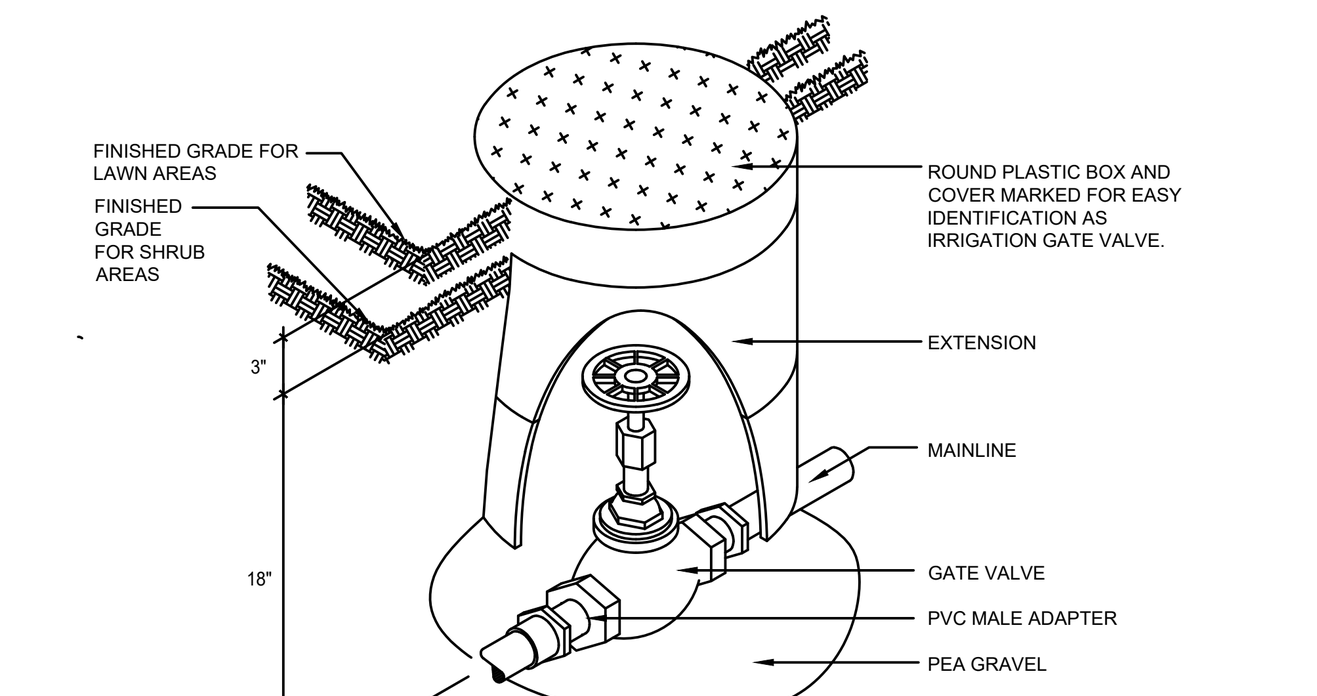


F IR1.3 **REMOTE CONTROL VALVE**
SCALE: NOT TO SCALE

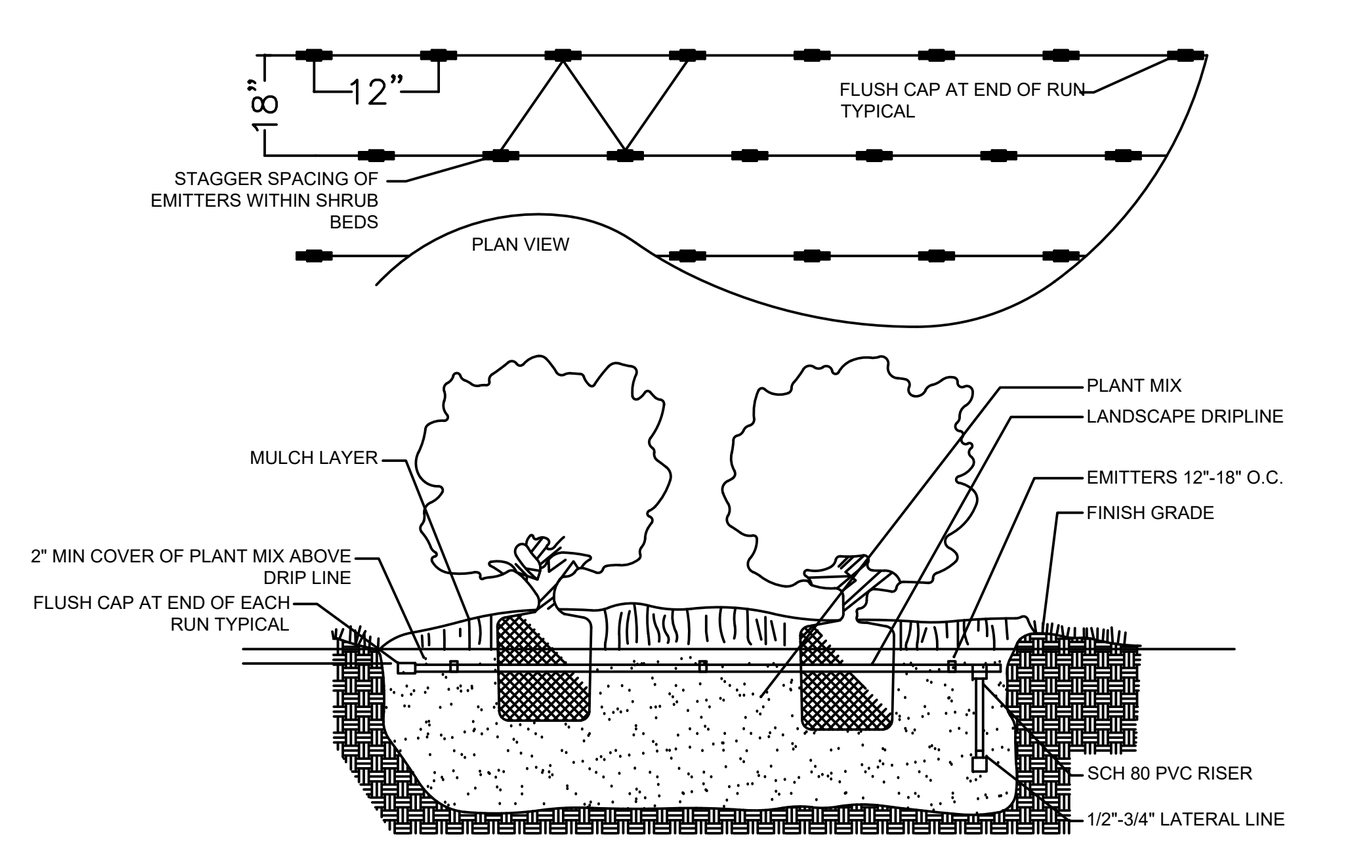


NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

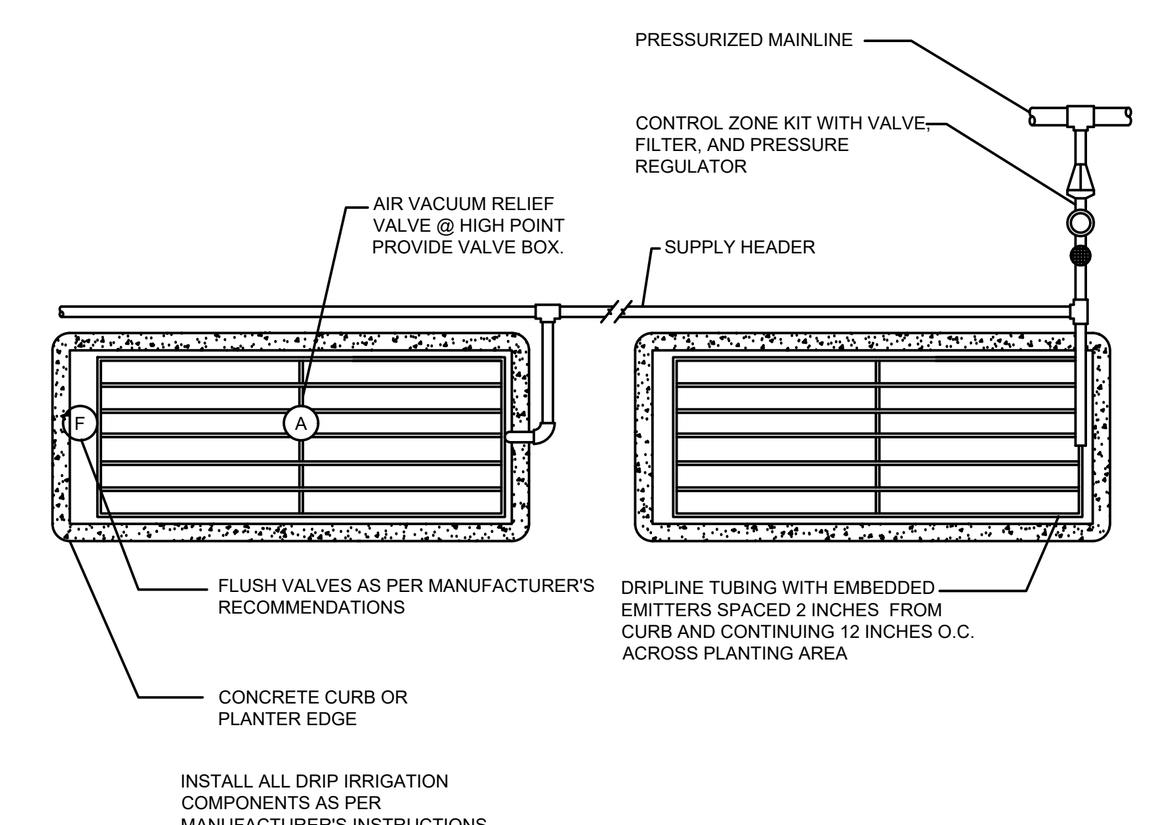
G IR1.3 **QUICK COUPLING VALVE**
SCALE: NOT TO SCALE



H IR1.3 **GATE VALVE**
SCALE: NOT TO SCALE

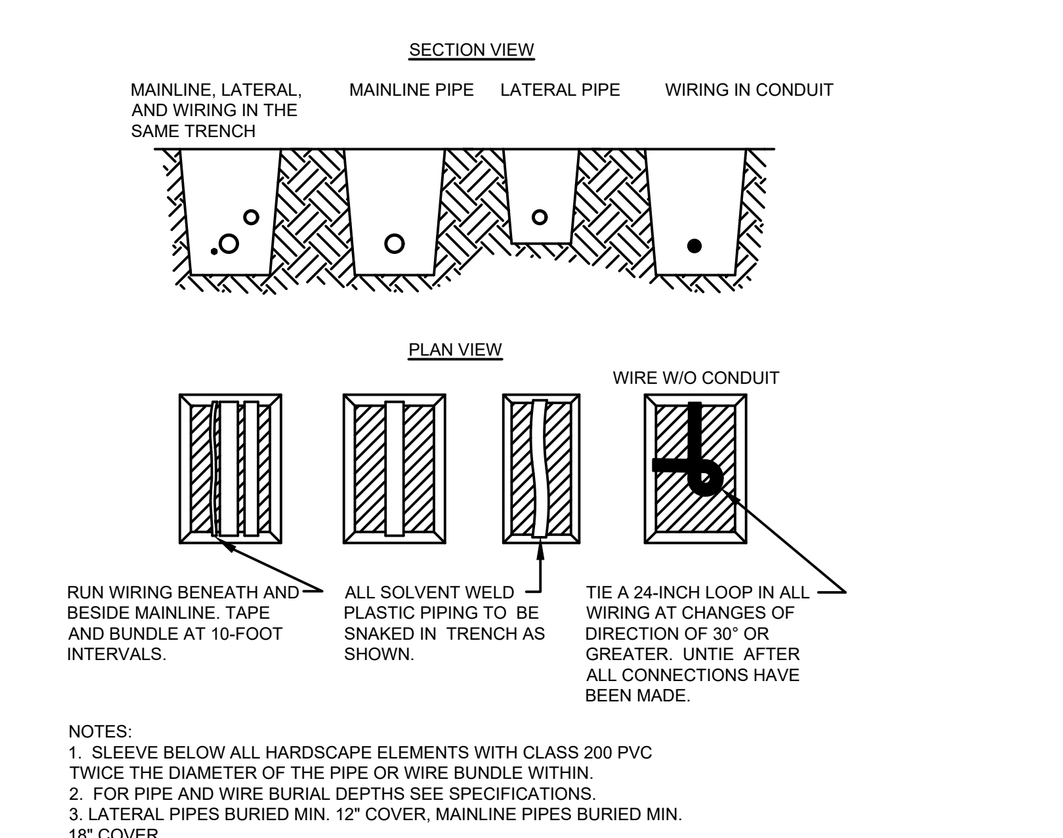


I IR1.3 **SHRUB DRIP IRRIGATION DETAIL**
SCALE: NOT TO SCALE



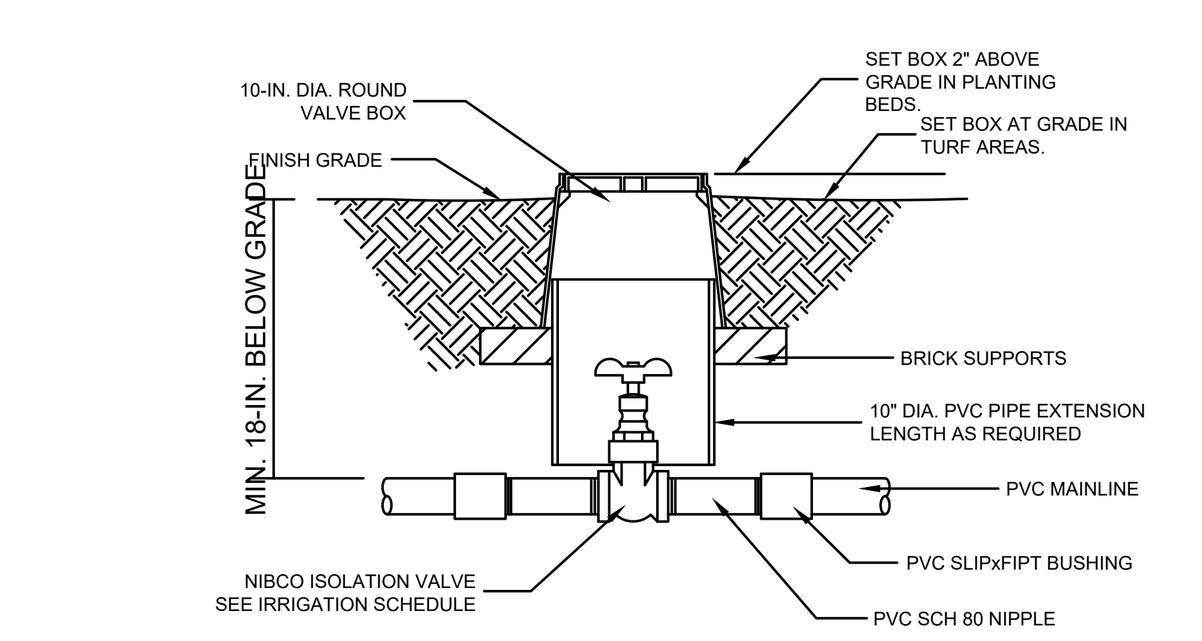
INSTALL ALL DRIP IRRIGATION COMPONENTS AS PER MANUFACTURER'S INSTRUCTIONS.

J IR1.3 **MULTIPLE BED DRIP IRRIGATION**
SCALE: NOT TO SCALE

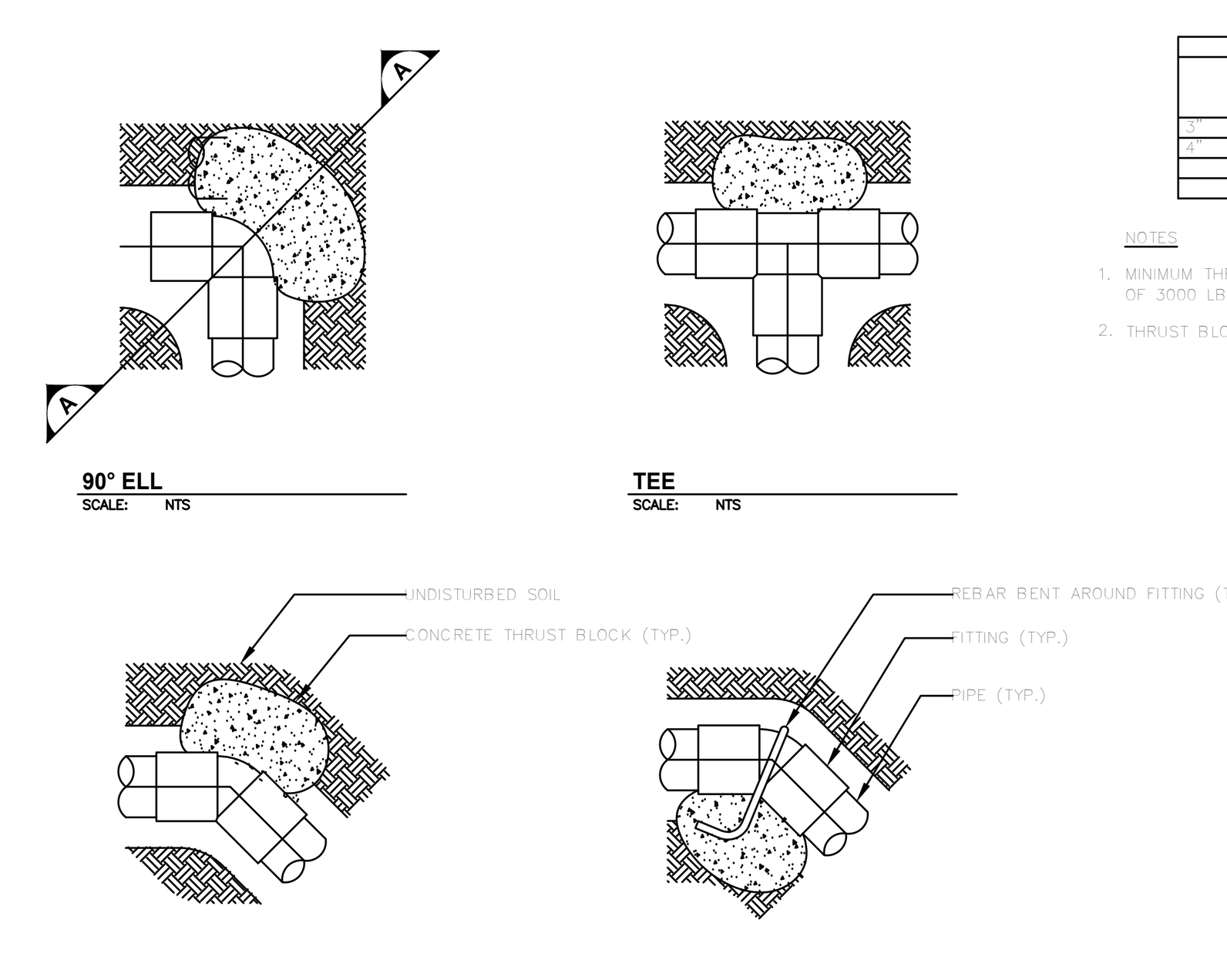


NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.
3. LATERAL PIPES BURIED MIN. 12" COVER, MAINLINE PIPES BURIED MIN. 18" COVER

K IR1.3 **TRENCH DETAIL**
SCALE: NOT TO SCALE



L IR1.3 **ISOLATION/SHUT-OFF VALVE**
SCALE: NOT TO SCALE



90° ELL
SCALE: NTS

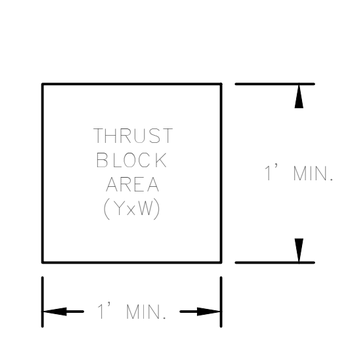
TEE
SCALE: NTS

45° ELL
SCALE: NTS

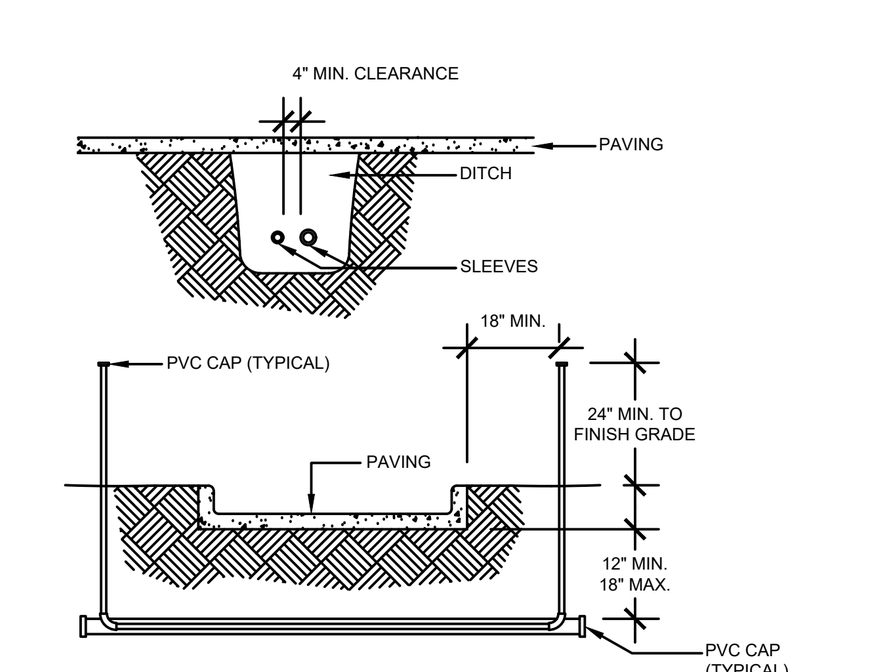
45° ELL (VERTICAL)
SCALE: NTS

MINUMUM THRUST BLOCK AREA (YxW)		
PIPE SIZE	IRRIGATION PIPE	
	TEE, DEAD END 90° BEND	
3"	1 SF	
4"	1.5 SF	

NOTES
1. MINIMUM THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING CAPACITY OF 3000 LBS/SF
2. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.



M IR1.3 **THRUST BLOCK DETAIL**
SCALE: NOT TO SCALE



NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE CLASS 200 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

N IR1.3 **SLEEVING**
SCALE: NOT TO SCALE

IRRIGATION IN TEXAS IS REGULATED BY:
THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)
MC-178 / PO BOX 18087
AUSTIN, TEXAS 78711-3087
WWW.TCEQ.STATE.TX.US.

811
Know what's below.
Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CALL UTILITY LOCATES AND REFER TO CIVIL AND MEP PLANS

DESIGN DISCLAIMER:

This irrigation drawing is a preliminary layout. It is a diagrammatic representation for purpose of providing a basic depiction of the scope of coverage, initial valve zoning, with head type and placement. The Irrigation drawing does not provide necessary zone flow, hydraulic calculations to determine Design Pressure. These are defined in Texas Administrative Code*§§344.61 Minimum Standards for Design of the Irrigation Plan* , and required by the T.C.E.Q for a complete Irrigation Plan and for Permit and Construction. It will be the responsibility of the installing licensed irrigator or irrigator-in-charge, to use information provided on this Preliminary Irrigation drawing, to provide a final Irrigation Plan meeting all standards as required by T.C.E.Q, Signed and Sealed.

Wong & Associates, Inc. shall not be responsible and accepts no liability for design failure, inaccurate head layout, incorrect hydro-zoning, pipe sizing, zone flow or hydraulic calculations, irrigation equipment, or aspects of the preliminary design drawing not in compliance with local irrigation regulations. The irrigation contractor shall be ultimately responsible for the final design, installation and proper operation of the irrigation system.

Disclaimer

Wong & Associates, Inc. shall not be responsible for the operation and/or maintenance of this irrigation system, once the date of final acceptance by the owner is established. All grades and elevations on the project shall be set by the project civil engineer. The Owner shall be responsible for the monitoring and the maintaining of the irrigation system. Monthly moisture sensor tests of all sprinkler zones around all building pads and on entire property, shall be performed by the Owner to ensure that no over-watering and/or any irrigation system leaks are present. The irrigation contractor shall be responsible for providing all guarantee and warranties for the irrigation system. The irrigation contractor shall be ultimately responsible for the installation and proper operation of the irrigation system.

1 IR1.3 **IRRIGATION DETAILS**
SCALE: N.T.S.

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

STATE OF TEXAS
LESLIE V SHOUR
1531
LICENSED IRRIGATOR
06/15/2026

Wong & Associates, Inc.
P.O. Box 2028 Bellaire, Texas 77402-2028
Tel. 713-777-9198 Cell : 713-557-9298
Member: American Society of Landscape Architects

www.huckabee-inc.com
800.687.1229

IRRIGATION DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	IR1.3
Drawn By: EW/SR	
Date: -	

DD QC

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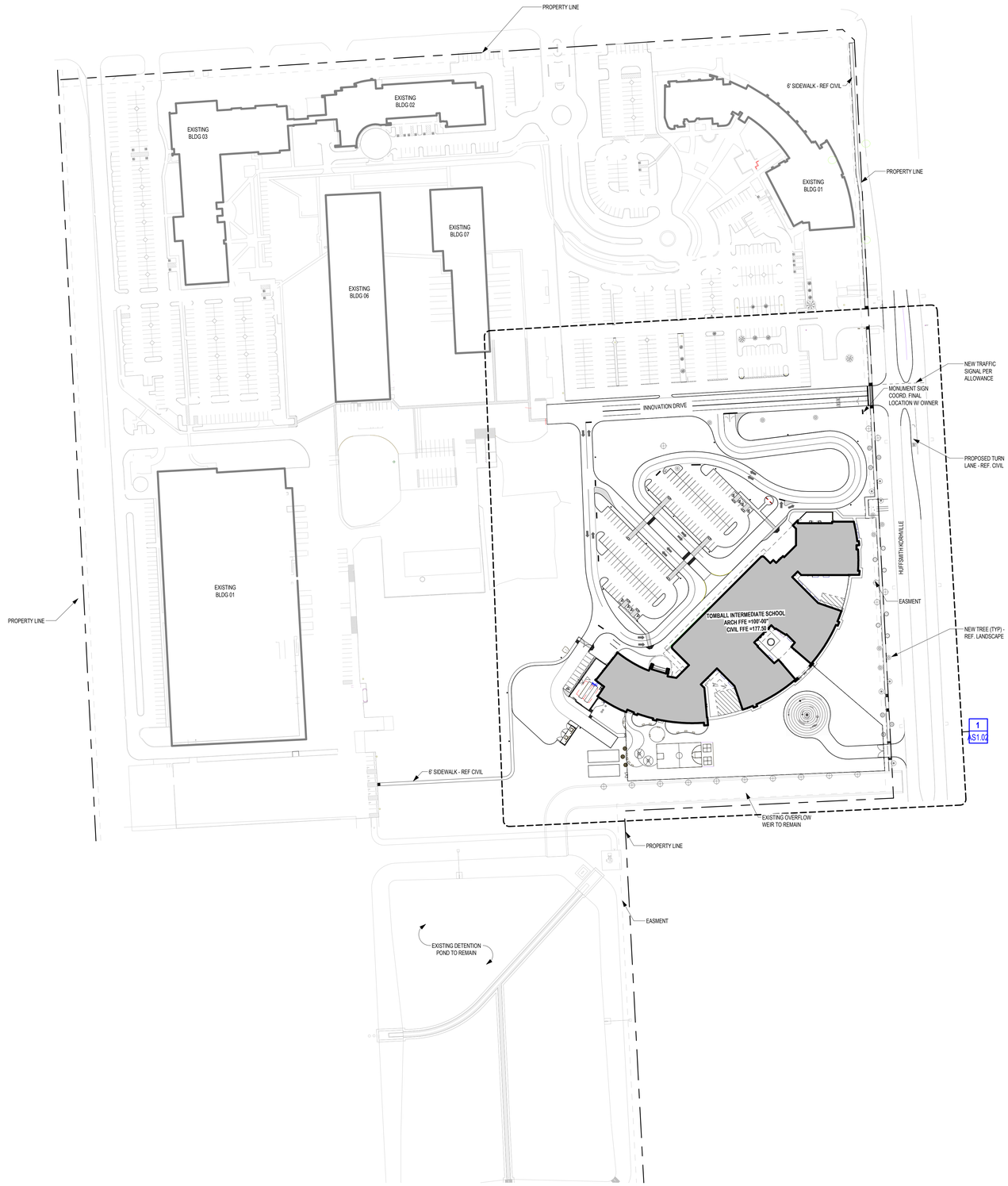

1 OVERALL ARCHITECTURAL SITE PLAN
1" = 100'-0"

N
TRUE

1. ALL SITE INFORMATION INCLUDING, BUT NOT LIMITED TO, PROPERTY LINES, METES & BOUNDS, CONTOURS, EXISTING BUILDINGS, EASEMENTS, TREES, WALKS, DRIVES, FENCES, ETC., TAKEN FROM SURVEY BY:

   WEST BELT SURVEYING, INC
   21020 PARK ROW
   KATY, TX 77449
   PHONE (281)-599-9288

2. HUCKABEE AND ASSOCIATES, INC. ALONG WITH THEIR CONSULTANTS HAVE LOCATED, SHOWN , AND NOTED EXISTING SITE FEATURES INCLUDING BUT NOT LIMITED TO PROPERTY LINES, METES AND BOUNDS, GRADE CONTOURS, EXISTING STRUCTURES, EASEMENTS, TREES, FENCES, ROADWAYS, OVERHEAD AND UNDERGROUND UTILITIES, AND OTHER EXISTING FEATURES TO THE BEST OF OUR ABILITY BASED UPON OWNER PROVIDED SURVEYS, EXISTING CONSTRUCTION DOCUMENTS AND OTHER EXISTING DATA COLLECTION IN REGARDS TO THE SPECIFIED SITE. HUCKABEE AND ASSOCIATES, INC. NOR THEIR CONSULTANTS SHALL ASSUME ANY RESPONSIBILITY OR LIABILITIES IN REGARD TO THE ACCURACY OF THE ABOVE MENTIONED OWNER PROVIDED DATA.
3. IF THE CONTRACTOR FINDS ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND THOSE WHICH ARE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY CONTACT THE ARCHITECT.
4. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH ALL UTILITY ENTITIES TO LOCATE AND MARK ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
6. REF. SHEET AS2.01-AS2.05 FOR DETAILS AND OTHER SITE IMPROVEMENT DETAILS.
7. FINISH GRADE AT PERIMETER OF THE BUILDING SHALL BE AS SHOWN ON SITE GRADING PLAN. REF. CIVIL DRAWINGS. SITE GRADES SHALL SLOPE UNIFORMLY AWAY FROM THE BUILDING AND INTERSECT WITH ELEVATIONS SHOWN.
8. REF. CIVIL DRAWINGS FOR ALL SITE DIMENSIONS
9. MAKE ALL SLOPES OF WALKS AND DRIVES COMPLY WITH FINISH ELEVATION SHOWN ON CIVIL DRAWINGS. THE LINE OF SLOPE SHALL FORM STRAIGHT LINES BETWEEN FINISH ELEVATIONS WHEN POSSIBLE AND GRADING CONTOURS WHEN STRAIGHT LINES ARE NOT POSSIBLE. VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECT ON JOB. REF. CIVIL.
10. ALL WALKS AND PLAZAS SHALL BE REINFORCED CONCRETE - REF. CIVIL FOR DETAILS. PROVIDE 1/2" EXPANSION JOINT AS SHOWN BY CIVIL OR AT 25'-0" O.C. MAX. AND AT ALL INSIDE CORNERS. PROVIDE TOOLED CONTROL JOINTS AT 5'-0" O.C.B.W. MAX OR AS SHOWN. SEE CIVIL FOR TYPICAL WALK AND JOINT DETAILS.
11. PROVIDE 1/2" EXPANSION JOINT ALONG BUILDING FOUNDATION OR BRICK WHERE CONCRETE WALK IS PRESENT. REF. CIVIL DRAWINGS FOR TYPICAL DETAIL.
12. PROVIDE 1/2" EXPANSION JOINT ALONG BACK OF CONCRETE CURB WHERE WALK IS PRESENT. REF. CIVIL DRAWINGS FOR CURB DETAILS
13. CONTRACTOR SHALL REMOVE ALL EXISTING OBSTRUCTIONS TO NEW CONSTRUCTION, PAVING, WALKS, AND ALL OTHER SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO EXISTING TREES, FENCES, CONCRETE, ROCKS, DEBRIS, POSTS, VEGETATION, UTILITIES (AS NOTED), AND OTHER ITEMS AS NOTED FOR CONSTRUCTION.
14. REF. ELECTRICAL DRAWINGS FOR OUTDOOR LIGHTING REQUIREMENTS.
15. REF. CIVIL DRAWINGS FOR SITE GRADING PLAN, SITE UTILITY PLAN (INCLUDING FIRE HYDRANT LOCATIONS), EROSION CONTROL PLANS, AND CURB AND PAVING REQUIREMENTS AND DETAILS.
16. REF. CIVIL SHEETS FOR SITE GRADING CONTOURS. CONTRACTOR SHALL MAKE ALL CUTS AND FILLS REQUIRED TO ACCOMPLISH ALL WORK SHOWN. GRADE SITE TO TOLERANCES SPECIFIED.
17. REF. CIVIL DRAWINGS FOR THICKNESS AND LOCATIONS OF ALL TYPES OF PAVING.
18. FIRE LANE STRIPING SHALL COMPLY WITH CITY OF ***TOMBALL*** REQUIREMENTS AND NFPA.
19. PROVIDE DEDICATED STRUCTURAL CONCRETE FOUNDATION PAD FOR ALL ON-SITE ELECTRICAL TRANSFORMERS PER THE ELECTRICAL SERVICE PROVIDER REQUIREMENTS AND/OR SPECIFICATIONS.
20. PROVIDE DEDICATED STRUCTURAL CONCRETE FOUNDATION PAD FOR ALL ON-SITE GENERATORS AND ANY ASSOCIATED GENERATOR ENCLOSURES.

GENERAL SITE NOTES

PROPERTY DESCRIPTION

1) OWNER INFORMATION

A. NAME : TOMBALL ISD
B. ADDRESS: 310 S. CHERRY ST.
   TOMBALL, TEXAS 77375.

2) PROPERTY INFORMATION
A. NAME: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
B. ADDRESS: 22939 HUFSMITH KOHRVILLE RD, TOMBALL TX

3) LEGAL DESCRIPTION
TOMBALL ISD, NEW INTERMEDIATE SCHOOL

4) ZONING INFORMATION
A. CATEGORY: LIGHT INDUSTRIAL
B. TRANSLATED CATEGORY: EDUCATIONAL FACILITIES
C. ORDINANCE NUMBER: 2008-01, § 2, 2-4-2008

PARKING REQUIREMENTS

AS OBTAINED FROM CITY ORDINANCE, LAND DEVELOPMENT CODE, SECTION 66-112, THE REQUIRED NUMBER OF OFF STREET PARKING SPACES IS DETERMINED AS FOLLOWS:

1.5 SPACES FOR EACH CLASSROOM AND 2 SPACES FOR EACH OFFICE.

TOTAL SPACES REQUIRED
99 SPACES
04 ACCESSIBLE SPACES
103 TOTAL SPACES

TOTAL SPACES PROVIDED
136 SPACES
08 ACCESSIBLE SPACES
144 TOTAL SPACES

PROPERTY & PARKING NOTES

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNICH
29 STATE OF TEXAS
7/15/2026

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OVERALL ARCHITECTURAL SITE PLAN

VOLUME 01

Job No.	Sheet No.
00802-04-01	AS1.01
Drawn By: CB	
Date: 07.15.26	

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TREE (TYP) - REF. LANDSCAPE

11 AS2.05

6' SIDEWALK - REF CIVIL

ONLY

HUFFSMITH KOHRVILLE

1 AS2.0

EG7 HW: J705

ART COURTYARD

EG8 HW: J705

(11) SPACES

(17) SPACES

(18) SPACES

(16) SPACES

(2) FLAG POLES - REF. ELEC FOR UPLIGHTING

VISITOR PARKING

PARENT DROP OFF

(21) SPACES

(18) SPACES

(16) SPACES

(6) SPACES

LIGHT POLES (TYP) - REF. ELEC.

STAFF PARKING

BUS DROP OFF

EG1 HW: J705

6' HIGH BLACK VINYL FENCE

TOMBALL INTERMEDIATE SCHOOL
ARCH FFE = 100'-00"
CIVIL FFE = 177.50

LP

EG2 HW: J704

SEMI-RECESSED KNOX BOX

*NOTE AT POTENTIAL FUTURE ADDITIONS:

1. GENERAL CONTRACTOR SHALL COORDINATE ANY AND ALL SUBCONTRACTOR WORK TO PREVENT ANY PATHWAYS WITHIN THE AREA SHOWN, AND NOTED, FOR FUTURE ADDITION.

2. ALL UNDERGROUND UTILITIES THAT CAN NOT AVOID THIS AREA ARE TO HAVE THEIR LOCATIONS, INCLUDING DEPTH BELOW GRADE, CLEARLY DOCUMENTED AND PROVIDED TO THE OWNER AS PART OF THE AS-BUILT SET

24' WIDE POLE MOUNTED VEHICULAR SWING SECURITY GATE - PROVIDE KNOX BOX

EG12 HW: J002 DETAILS

BICYCLE RACK (4)

KNOX BOX

PROPOSED PAD MOUNTED ELEC TRANSFORMER - REF. ELECTRICAL

TYPE A BOLLARDS AT SURROUND OF TRANSFORMER

WALL MOUNTED FDC

COURTYARD - REF. LANDSCAPE

1 AS2.02

(19) SPACES

EG18 HW: J704

GAS METER - REF PLUMB

BICYCLE RACK

UP

PRE-MANUF. FABRIC SHADE CANOPIES. REF. SPEC SECT 10 7340

EG17 HW: J704

EG3 HW: J704

EG4 HW: J704

6' DECORATIVE METAL FENCE & GATES

SERVICE YARD

EG15 HW: J705

2 AS2.01

2 AS2.02

6' HIGH BLACK VINYL FENCE

GREASE TRAP

FIRE LANE

EG20

EG19

7 AS2.05

7 AS2.06

8' HIGH BLACK VINYL FENCE

EG11 HW: J704

KNOX BOX

PLAYGROUND EQUIPMENT(4)

6' SIDEWALK - REF CIVIL

FUTURE TEMPORARY CLASSROOM

FUTURE TEMPORARY CLASSROOM

PAINTED FOUR SQUARE COURT

FIRE LANE

EG13 HW: J002 DETAILS

24' WIDE POLE MOUNTED VEHICULAR SWING GATE - PROVIDE KNOX BOX

KNOX BOX

EG10 HW: J002

TEATHER BALL SET - OFCI

EXTERIOR POLE MOUNTED BASKETBALL GOAL

6' HIGH BLACK VINYL FENCE

EXISTING OVERFLOW WEIR TO REMAIN

1 ARCHITECTURAL SITE PLAN - OVERALL
1" = 30'-0"

GRAPHIC SCALE
0 30 60 90 120

N TRUE

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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ENLARGED ARCHITECTURAL SITE PLAN

VOLUME 01

Job No. 00802-04-01	Sheet No. AS1.02
Drawn By: CB	
Date: 07.15.26	

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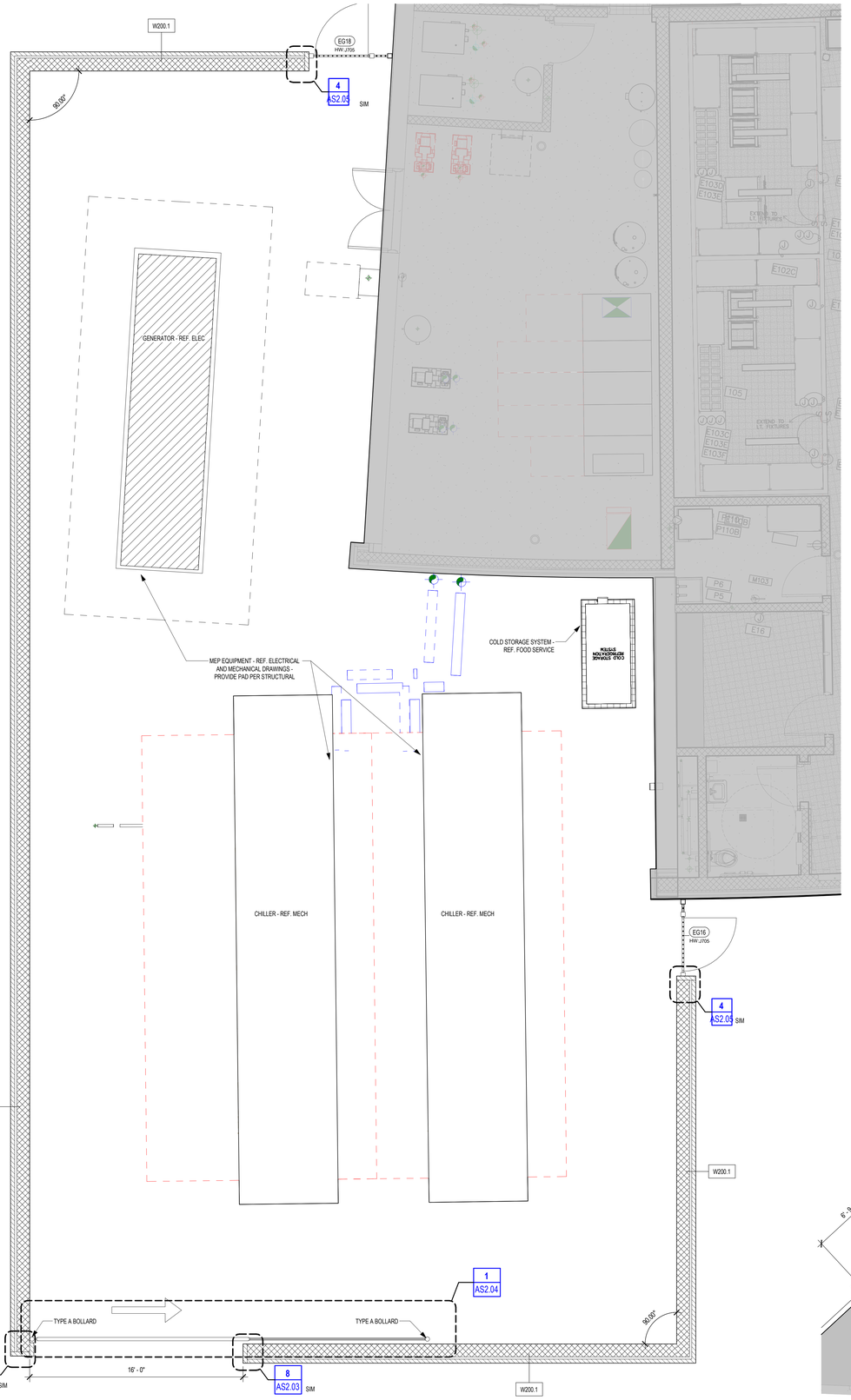
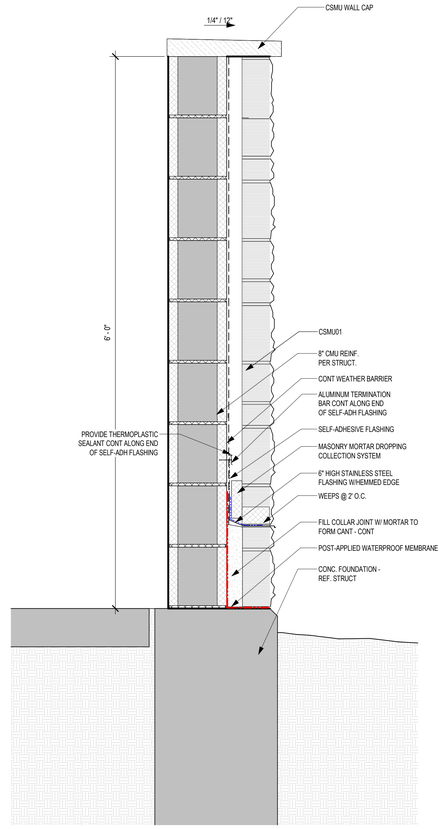
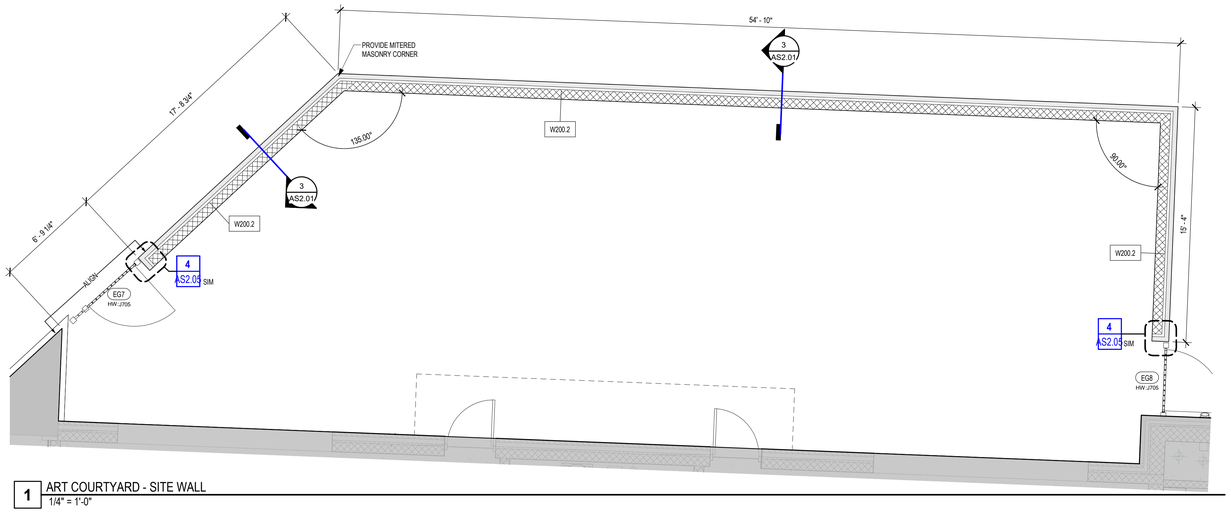


2 SERVICE YARD - SITE WALL
1/4" = 1'-0"



3 WALL SECTION
1 1/2" = 1'-0"



1 ART COURTYARD - SITE WALL
1/4" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
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7/15/2026

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ENLARGED SITE PLAN & SITE DETAILS

VOLUME 01

Job No. 00802-04-01
Drawn By: CB
Date: 07.15.26
Sheet No. AS2.01

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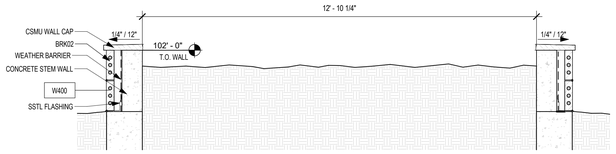
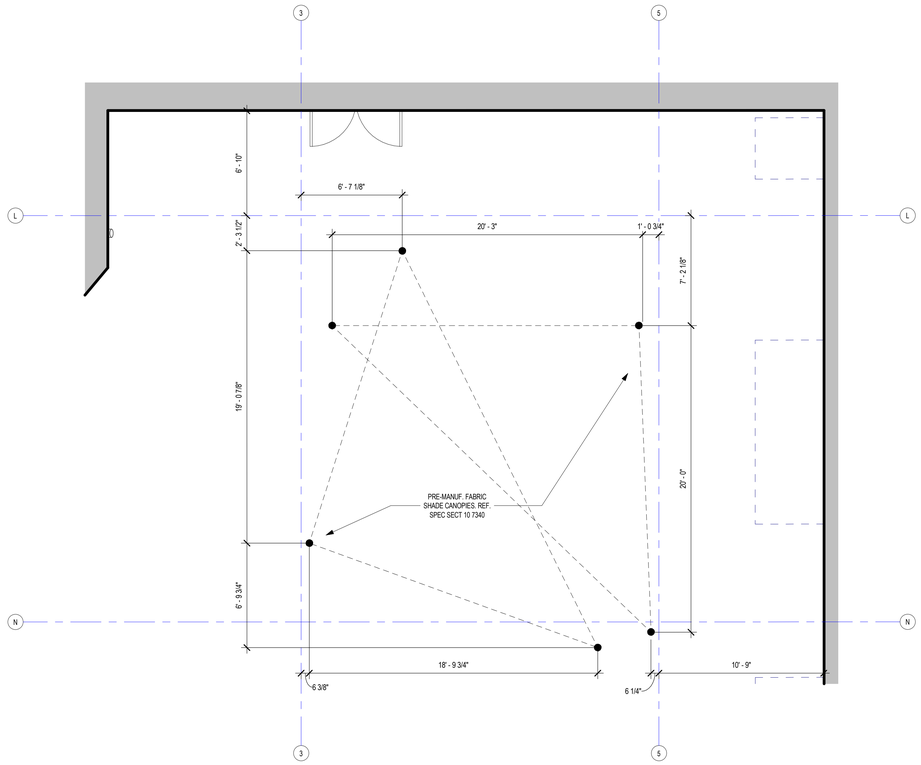
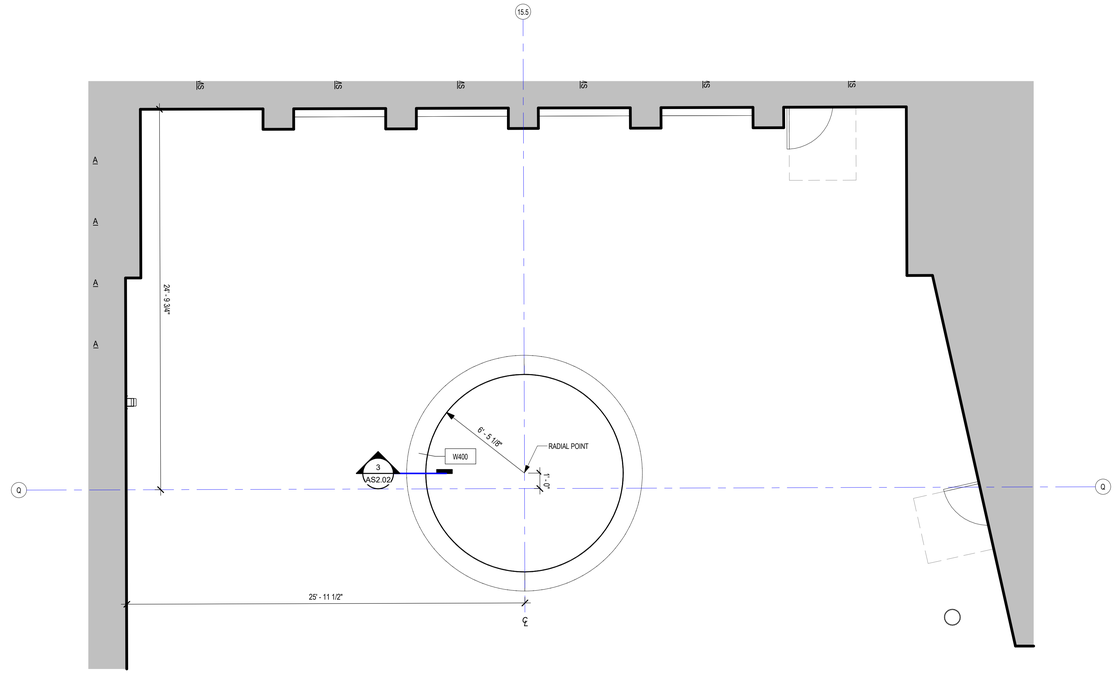


3 PLANTER SECTION
1/2" = 1'-0"



2 GYMNASIUM COURTYARD - SHADE CANOPY
1/4" = 1'-0" BACK REF: AS1.02



1 LIBRARY COURTYARD - PLANTER
1/4" = 1'-0" BACK REF: AS1.02

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
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VOLUME 01

Job No.	Sheet No.
00802-04-01	AS2.02
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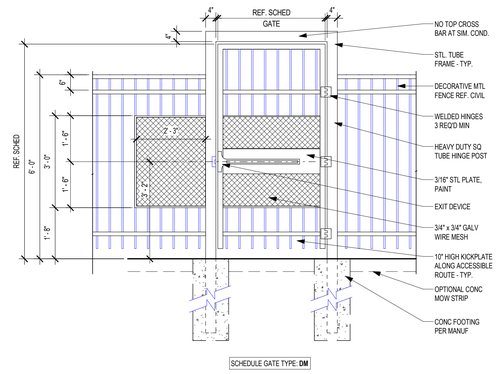
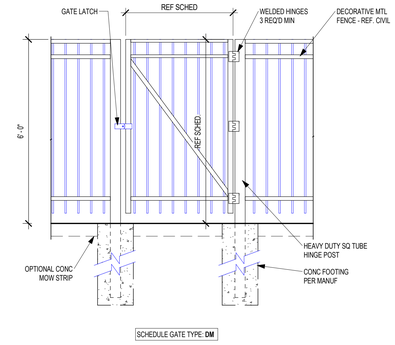
GATE SCHEDULE

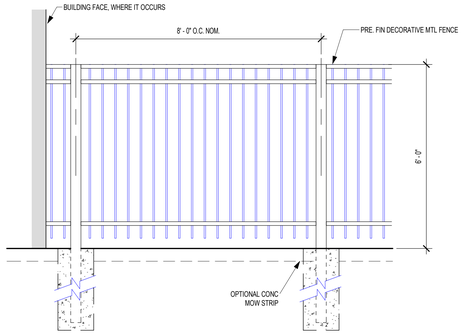
MARK	HARDWARE SET	GATE HEIGHT	GATE WIDTH	GATE MATERIAL & TYPE	PANIC HARDWARE	DETAILS & NOTES COMMENTS
EG1	J705	6' - 0"	3' - 0"	CL	Yes	BLACK VINYL REF. 9/AS2.02
EG2	J704	6' - 0"	6' - 0"	CL (PR)	Yes	BLACK VINYL REF. 9/AS2.02
EG3	J704	6' - 0"	6' - 0"	STL(PR)	Yes	CUSTOM DESIGN, REF. AS2.03
EG4	J704	6' - 0"	6' - 0"	STL(PR)	Yes	CUSTOM DESIGN, REF. AS2.03
EG7	J705	6' - 0"	4' - 0"	STL	No	DECORATIVE REF. 2/AS2.02
EG8	J705	6' - 0"	4' - 0"	STL	Yes	DECORATIVE REF. 2/AS2.02
EG10	J704	6' - 0"	10' - 0"	CL(PR)	No	BLACK VINYL REF. 9/AS2.02
EG11	J704	6' - 0"	6' - 0"	CL (PR)	Yes	BLACK VINYL REF. 9/AS2.02
EG12	REF. DETAILS	3' - 0"	26' - 0"	STL(V-PR)	No	PROVIDE POLE MOUNTED KNOX BOX
EG13	REF. DETAILS	3' - 0"	24' - 0"	STL(V-PR)	No	PROVIDE POLE MOUNTED KNOX BOX
EG16	J705	6' - 0"	4' - 0"	STL	Yes	DECORATIVE REF. 2/AS2.02
EG17	J704	6' - 0"	6' - 0"	STL(PR)	Yes	CUSTOM DESIGN, REF. AS2.03
EG18	J705	6' - 0"	4' - 0"	STL	Yes	DECORATIVE REF. 2/AS2.02
EG19	J002	10' - 0"	18' - 10"	CL (PR)	No	BLACK VINYL REF. 9/AS2.02
EQ20	J002	10' - 0"	18' - 10"	CL (PR)	No	BLACK VINYL REF. 9/AS2.02



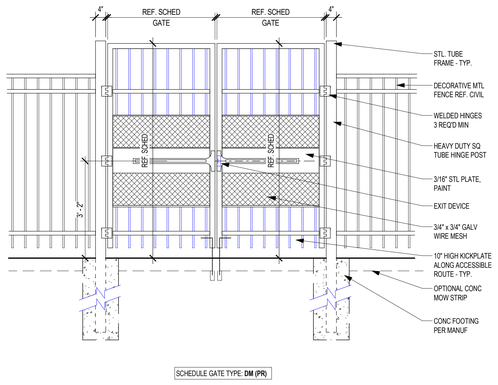
10 DECORATIVE METAL FENCE - SINGLE W/PANIC HDWR AND CLOSER
1/2" = 1'-0"



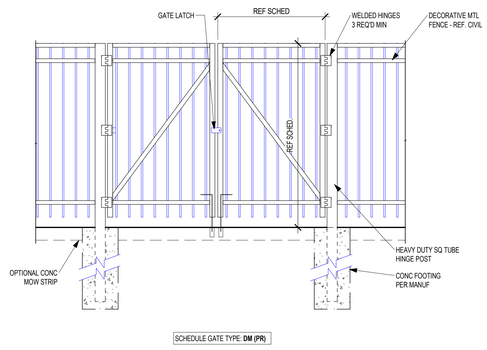
9 DECORATIVE METAL FENCE - SINGLE
1/2" = 1'-0"



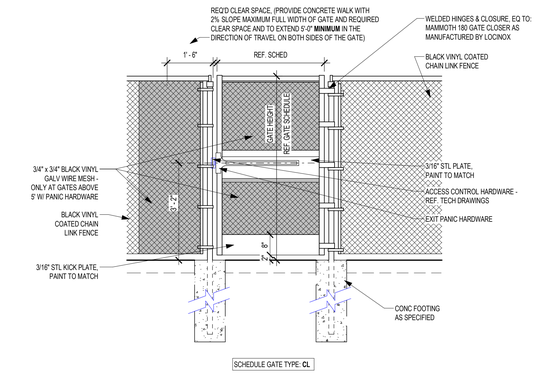
8 DECORATIVE METAL FENCE
1/2" = 1'-0"



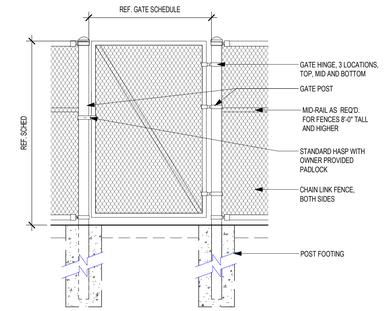
7 DECORATIVE METAL - DOUBLE W/PANIC HDWR AND CLOSER
1/2" = 1'-0"



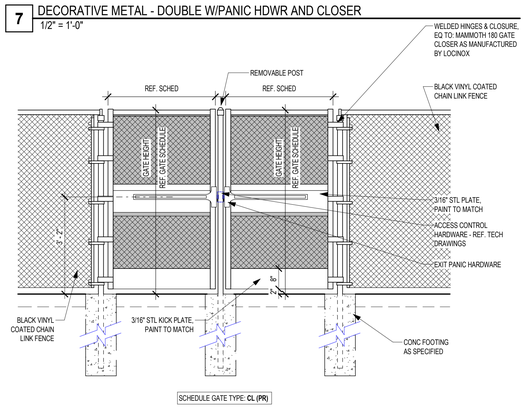
6 DECORATIVE METAL - DOUBLE
1/2" = 1'-0"



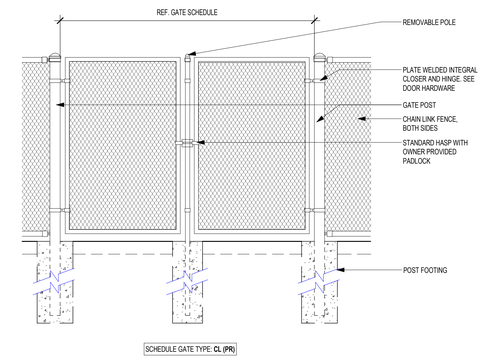
5 CHAIN LINK GATE - SINGLE W/ PANIC HARDWARE
1/2" = 1'-0"



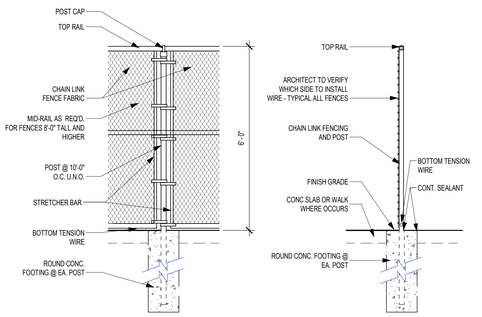
4 CHAIN LINK GATE - SINGLE
1/2" = 1'-0"



3 CHAIN LINK GATE - DOUBLE W/ PANIC HARDWARE
1/2" = 1'-0"



2 CHAIN LINK GATE - DOUBLE
1/2" = 1'-0"



1 CHAIN LINK FENCE
1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

REGISTERED ARCHITECT
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FENCE & GATE DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	AS2.03
Drawn By: CB	
Date: 07.15.26	

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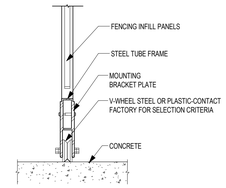
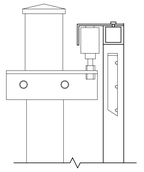
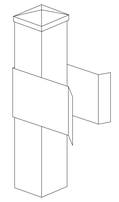
NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



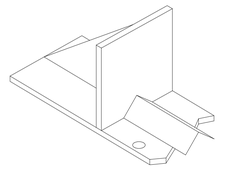
SINGLE WHEEL



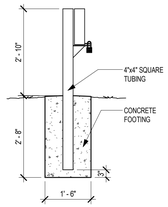
GUIDE WHEELS



CLOSE GATE POST WITH GUIDE



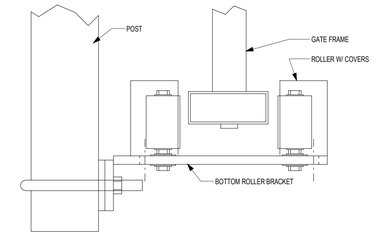
WHEEL STOP



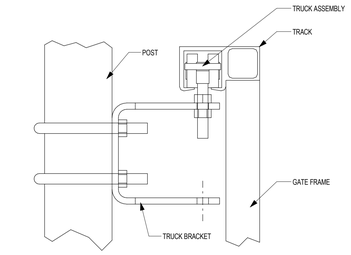
10 SECURITY GATE - LATCH POST
1/2" = 1'-0"



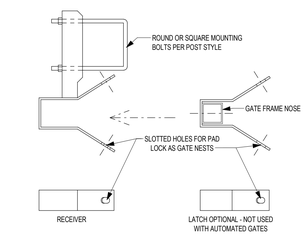
5 AS_SLIDING CL GATE GUSSET DETAIL
1/2" = 1'-0"



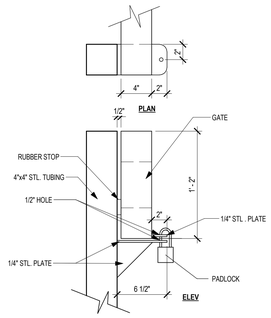
6 SLIDING CL GATE BOTTOM BRACKET DETAIL
1/2" = 1'-0"



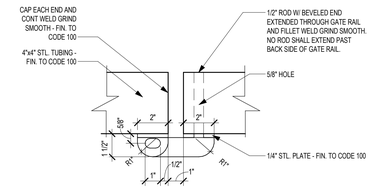
7 SLIDING CL GATE TOP
1/2" = 1'-0"



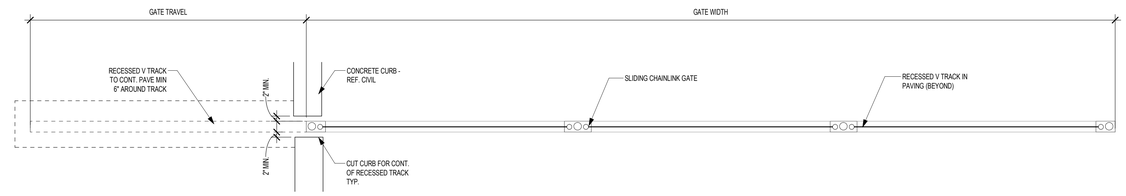
8 SLIDING CL GATE RECEIVER DETAIL
1/2" = 1'-0"



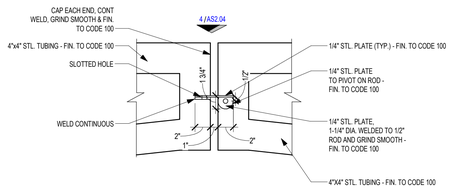
9 LATCH POST DETAIL
1 1/2" = 1'-0"



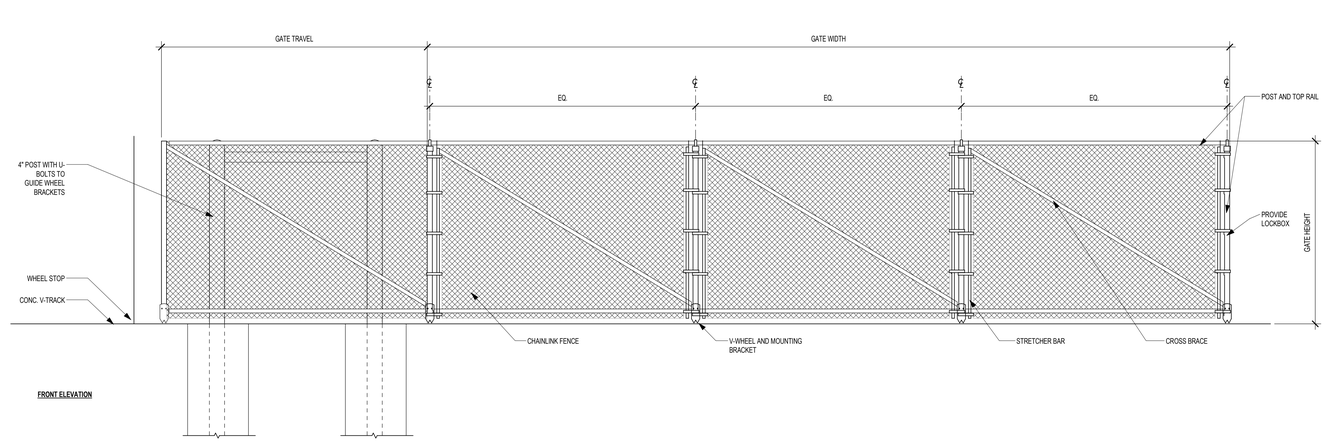
4 SECURITY LATCH ASSEMBLY PLAN DETAIL
3" = 1'-0"



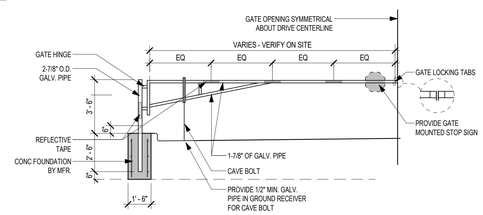
PLAN



3 SECURITY LATCH ASSEMBLY - ELEV. DETAIL - FRONT VIEW
1 1/2" = 1'-0"



FRONT ELEVATION



2 MANUAL DRIVE GATE ELEVATION
1/4" = 1'-0"

1 ROLLING BLACK VINYL CL GATE ELEVATION
1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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VEHICULAR GATE DETAILS

VOLUME 01

Job No.	Sheet No.
0/2602-04-01	AS2.04
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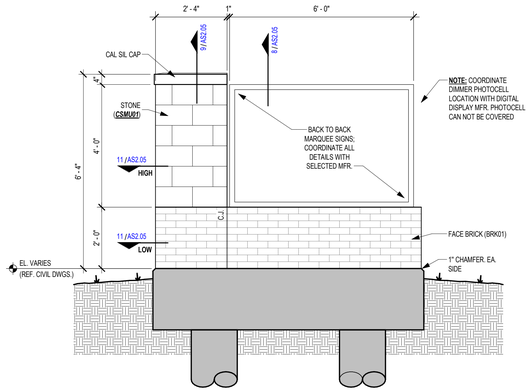
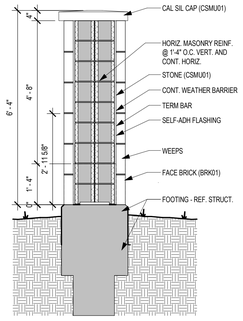
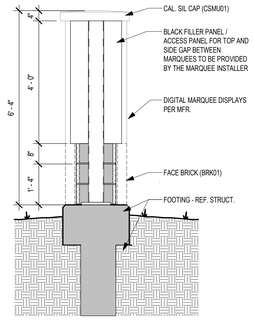


10 MONUMENT SIGN ELEVATION
1/2" = 1'-0"



9 MONUMENT SIGN SECTION
1/2" = 1'-0"



8 MONUMENT SIGN SECTION
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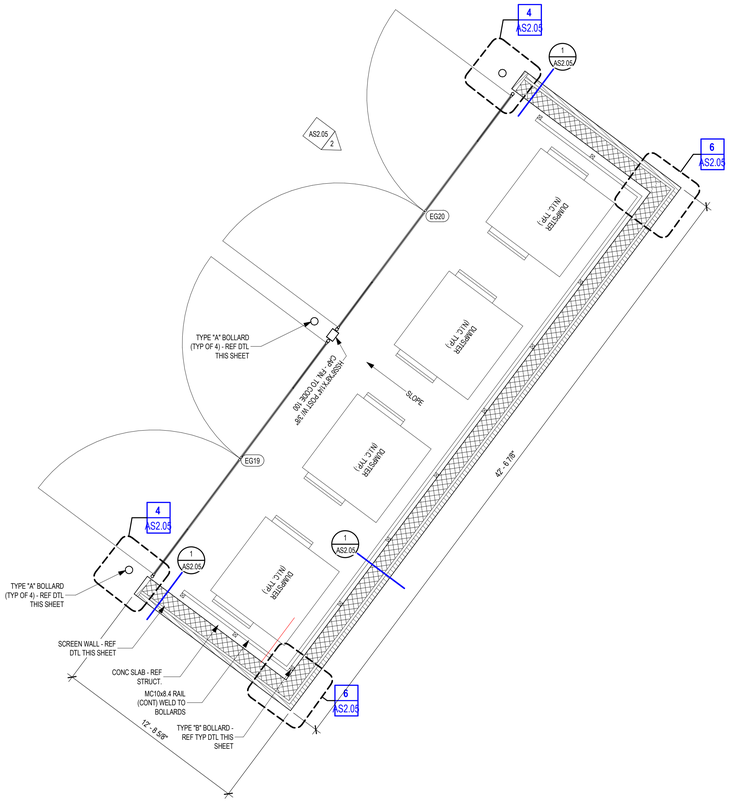
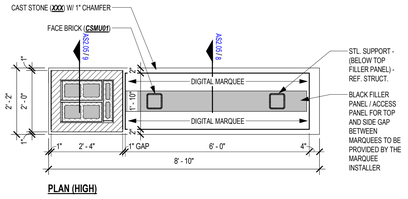
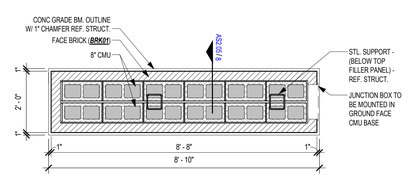


7 DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0"

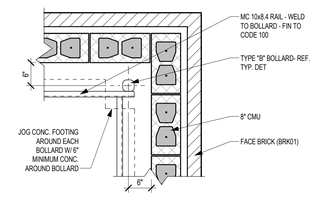


PLAN (HIGH)

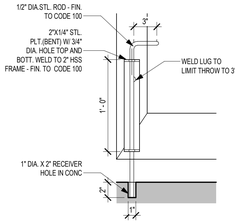


PLAN (LOW)

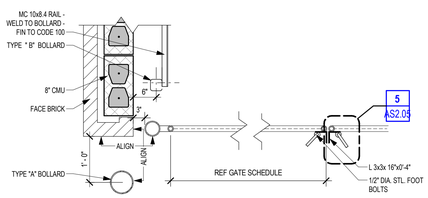
11 MONUMENT SIGN PLAN DETAIL
1/2" = 1'-0"



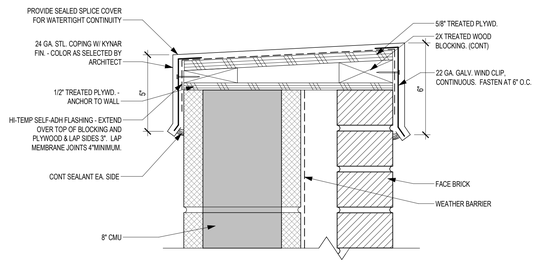
6 DUMPSTER ENCLOSURE FENCE DETAIL
3/4" = 1'-0"



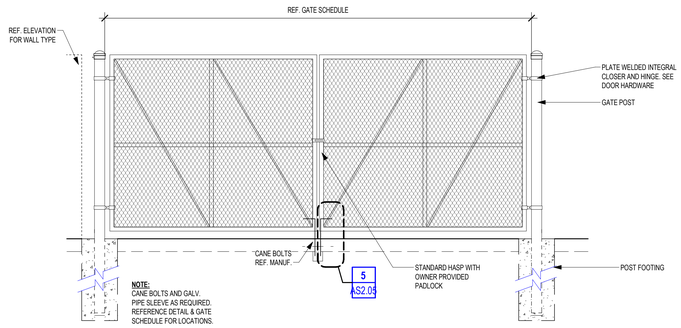
5 CANE BOLT DETAIL
1 1/2" = 1'-0"



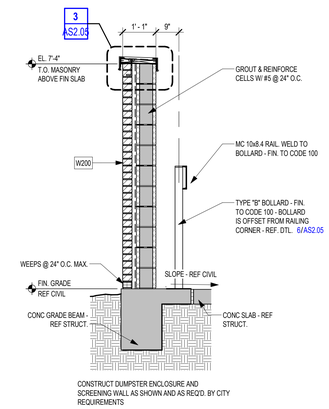
4 GATE PLAN DETAIL
3/4" = 1'-0"



3 DUMPSTER ENCLOSURE CAP DETAIL
3" = 1'-0"



2 VEHICULAR CHAIN LINK GATE
1/2" = 1'-0"



1 DUMPSTER ENCLOSURE SECTION
1/2" = 1'-0"

Date

Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29814
STATE OF TEXAS
7/15/2026

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DUMPSTER ENCLOSURE & MONUMENT SIGN DETAILS

VOLUME 01

Job No.	Sheet No.
00803-04-01	AS2.05
Drawn By: CB	
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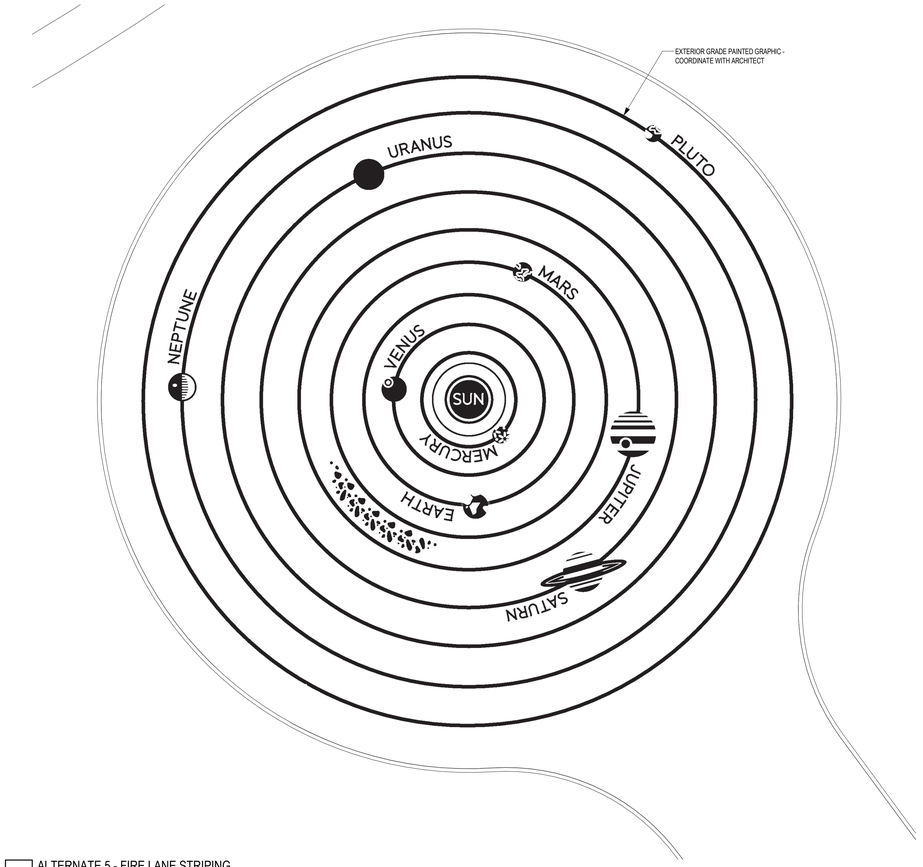
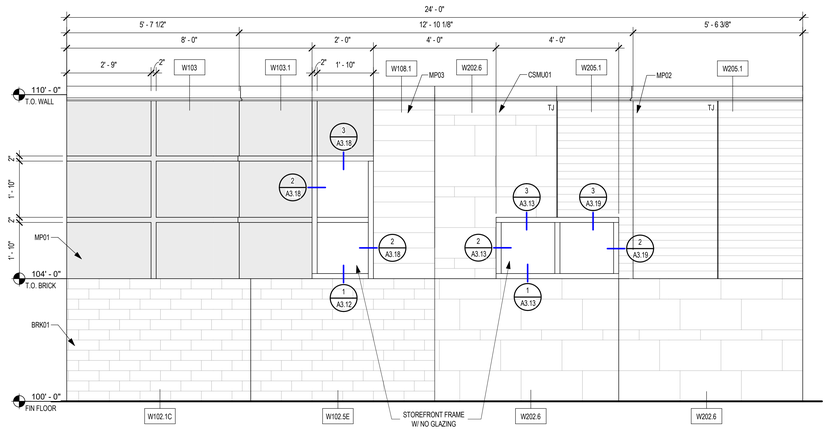
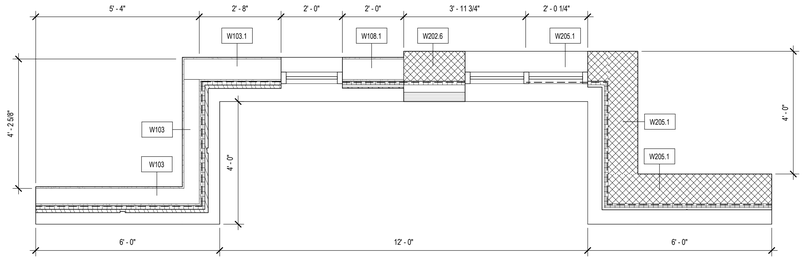


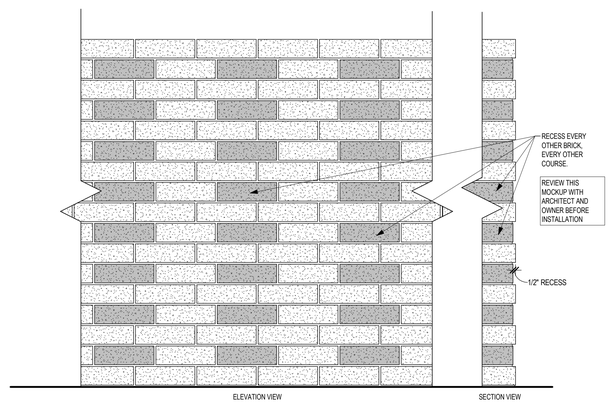
7 ALTERNATE 5 - FIRE LANE STRIPING
1/8" = 1'-0"



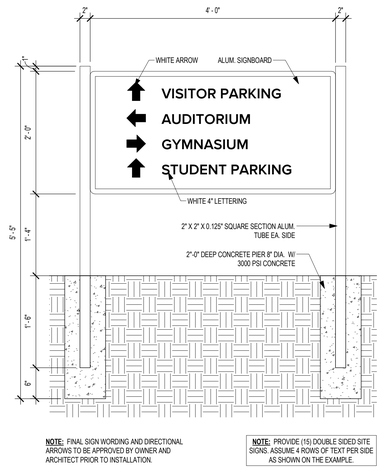
8 MOCK UP WALL - ELEVATION
1/2" = 1'-0"



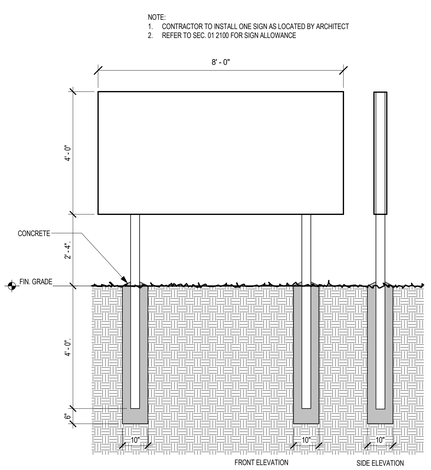
6 MOCK UP WALL - PLAN
1/2" = 1'-0"



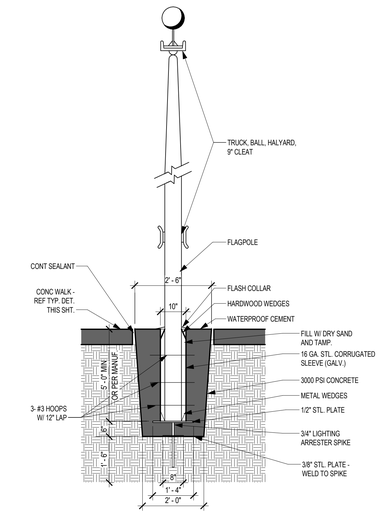
5 BRICK PATTERNING DETAIL FOR MOCK-UP WALL - BRK01
1" = 1'-0"



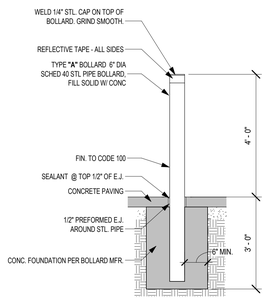
4 SITE DIRECTIONAL SIGNAGE
1" = 1'-0"



3 PROJECT SIGN
1/2" = 1'-0"



2 FLAGPOLE SECTION
1/2" = 1'-0"



1 TYPICAL BOLLARD DETAIL
1/2" = 1'-0"

Revision / Date

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FOR
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TOMBALL, TEXAS

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MISC. SITE DETAILS

VOLUME 01

Job No. 00802-04-01
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Date: 07.15.26
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GENERAL NOTES:

1. REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWING NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
2. ALL DIMENSIONS ASSOCIATED WITH EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE SEOR.
3. DO NOT CHANGE THE SIZE OR SPACING OF STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE SEOR.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
5. DETAILS SHOWN AS TYPICAL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SPECIFICALLY STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED BRACING OF THE BUILDING - INCLUDING ELEMENTS REQUIRED TO RESIST LATERAL LOADS - AND ANY OTHER STRUCTURES REQUIRED FOR STABILITY OF THE BUILDING DURING CONSTRUCTION UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED.
8. THE DESIGN IS BASED ON 2021 INTERNATIONAL BUILDING CODE.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE SEOR APPROVAL.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER 'S REPRESENTATIVE AND COORDINATE THEIR WORK WITH THE WORK OF OTHERS.
12. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SLEEVES, BLOCKOUTS, INSERTS, CURBS, OPENINGS, AND SLAB DEPRESSIONS THAT ARE REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN REFER TO MEP, CIVIL, AND ARCHITECTURAL DRAWINGS.
13. VERIFY SIZE AND LOCATION OF EQUIPMENT PADS WITH MECHANICAL AND/OR ELECTRICAL CONTRACTOR AND EQUIPMENT MANUFACTURER.
14. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR ANY PURPOSE. SEOR IS NOT RESPONSIBLE FOR DETERMINATION OF QUANTITY, LENGTH, OR FIT OF MATERIALS RESULTING FROM SCALING THE STRUCTURAL DRAWINGS.
15. CONTRACTOR SHALL COMPARE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
16. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.
17. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCH/ SEOR OF ANY CONDITION WHICH THEY BELIEVE MAY RESULT IN INSTABILITY AND/ OR DISTRESS IN THE STRUCTURE.
18. REFER TO SECTION 01 4533 OF THE PROJECT SPECIFICATIONS FOR QUALITY ASSURANCE PLAN AND SPECIAL INSPECTION REQUIREMENTS.
19. PRIOR TO SUBMITTING PROPOSALS, BIDS, OR GUARANTEED MAXIMUM PRICE (GMP) FOR THIS PROJECT - AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS - IT SHALL BE REQUIRED THAT THE CONTRACTOR REVIEW THE GEOTECHNICAL REPORT FOR THIS PROJECT; ALONG WITH ALL SUPPORTING DOCUMENTS TO THE REPORT SUCH AS SUPPLEMENTS AND ADDENDUMS, AND COMPARE THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT TO THE BUILDING PAD PREPARATION REQUIREMENTS (E.G. FILL MATERIAL REQUIREMENTS, COMPACTION REQUIREMENTS, EXTENTS OF EXCAVATION, ETC.) SPECIFIED IN THE CONSTRUCTION DOCUMENTS (BOTH DRAWINGS AND SPECIFICATIONS). IF THE CONTRACTOR BELIEVES THERE IS A DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS, THE MOST STRINGENT OF THOSE REQUIREMENTS SHALL GOVERN UNLESS OTHERWISE APPROVED BY THE SEOR. ADDITIONALLY, IF THE CONTRACTOR BELIEVES THERE IS A DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL SUBMIT AN RFI REQUESTING CLARIFICATION REGARDING ANY POTENTIAL DISCREPANCIES THE CONTRACTOR HAS IDENTIFIED.

FOUNDATION AND SOIL PREPARATION NOTES:

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING AS RECOMMENDED IN THE GEOTECHNICAL REPORT NO. 92245559.REVISION 1, DATED MAY 4, 2026 BY TERRACON;

BEARING STRATA:	NATURAL, UNDISTURBED SOILS
ALLOWABLE END BEARING PRESSURE	
0 FT TO 13 FT BELOW EXISTING GRADE ;	DISREGARD
13 FT TO 23 FT BELOW EXISTING GRADE ;	6,000 PSF
23 FT TO 30 FT BELOW EXISTING GRADE ;	8,000 PSF
SKIN FRICTION VALUES:	
IN COMPRESSION & TENSION (0' TO 13' PENETRATION):	DISREGARD
IN COMPRESSION & TENSION (13' TO 23' PENETRATION):	700 PSF
IN COMPRESSION & TENSION (23' TO 30' PENETRATION):	780 PSF
UPLIFT SOIL PRESSURE:	CAPACITY OF UPPER 4 FT OF THE ON-SITE SOILS SHOULD BE DISREGARDED DUE SURFACE PRESENCE OF FILL AND EXPANSIVE SOIL

2. THE CONTRACTOR AND DRILLER SHALL REVIEW THE REPORT AND BORING LOGS DURING THE BIDDING PHASE OF THE PROJECT. IF THE CONTRACTOR BELIEVES DISCREPANCIES EXIST BETWEEN THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND THESE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCH/ SEOR OF SUCH DISCREPANCIES PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE THE DIFFERENCE BETWEEN FINAL AND EXISTING GRADES IN THEIR BID. ADDITIONAL COST WILL NOT BE ALLOWED FOR FAILURE TO ACCOUNT FOR THE DIFFERENCE BETWEEN FINAL AND EXISTING GRADES. REFER TO THE CIVIL SITE GRADING PLAN FOR FINAL AND EXISTING GRADES.
3. PROVIDE POSITIVE DRAINAGE FOR ALL TRENCHES DURING CONSTRUCTION. DO NOT ALLOW ANY PONDING OF WATER DURING CONSTRUCTION.
4. THE SOIL BENEATH THE BUILDING AND SERVICE YARD, AND SITE STRUCTURES AND A MINIMUM OF 5 FEET AROUND THE PERIMETER OF THESE ELEMENTS SHALL BE TREATED AS FOLLOWS:
   A. STRIP ALL VEGETATION, TOPSOIL, AND UNSUITABLE MATERIALS AS REQUIRED. PROVIDE A MINIMUM 48-INCH-THICK SELECT FILL PAD BENEATH THE BUILDING, EXTENDING A MINIMUM OF 5 FEET BEYOND THE BUILDING PERIMETER.
   B. PROOFROLL THE EXPOSED SUBGRADE AFTER SITE PREPARATION AND PRIOR TO FILL PLACEMENT USING A 20-TON PNEUMATIC-TIRED ROLLER OR OTHER EQUIPMENT APPROVED BY THE GEOTECHNICAL ENGINEER. PROOFROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE. REMOVE WEAK OR PUMPING AREAS IDENTIFIED DURING PROOFROLLING, AS WELL AS FILL CONTAINING ORGANIC MATERIAL OR DEBRIS, AND REPLACE WITH COMPACTED SOIL MATCHING THE CLASSIFICATION, MOISTURE CONTENT, AND DENSITY OF THE ADJACENT IN-SITU SOIL.
   C. SCARIFY THE UPPER 6 INCHES OF SUBGRADE, MOISTURE CONDITION, AND COMPACT TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY PRIOR TO PLACEMENT OF FILL.
   D. ALL FILL WITHIN AND SURROUND THE BUILDING PAD SHALL BE A SELECT FILL MATERIAL MEETING CL OR SC CLASSIFICATION WITH PLASTICITY INDEX BETWEEN 10 AND 20 FOR ALL BUILDING PAD AND GRADE ADJUSTMENTS.
   E. PLACE SELECT FILL IN LIFTS NOT EXCEEDING 8 INCHES LOOSE (6 INCHES COMPACTED) AND COMPACT EACH LIFT TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT MOISTURE CONTENT WITHIN ±2 PERCENT OF OPTIMUM. PERFORM IN-PLACE DENSITY TESTING AT A MINIMUM FREQUENCY OF ONE (1) TEST PER LIFT FOR EACH 2,500 SQ. FT. OF BUILDING PAD AREA, WITH A MINIMUM OF THREE (3) TESTS PER LIFT PER DAY. ADDITIONAL TESTING SHALL BE PERFORMED AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR GEOTECHNICAL TESTING AGENCY.
   F. ALL FINISH GRADES ADJACENT TO THE BUILDING SHALL PROVIDE EFFECTIVE DRAINAGE AWAY FROM THE BUILDING DURING AND AFTER CONSTRUCTION. EXPOSED GROUND SHALL BE SLOPED AWAY FROM THE BUILDING FOR A MINIMUM OF 10 FEET BEYOND THE BUILDING PERIMETER. WATER SHALL NOT BE PERMITTED TO POND ADJACENT TO THE BUILDING. COLLECT ROOF RUNOFF IN GUTTERS OR ROOF DRAINS AND DISCHARGE ONTO PAVEMENT OR FLATWORK SLOPING AWAY FROM THE BUILDING, OR EXTEND DOWNSPOUTS A MINIMUM OF 10 FEET FROM THE BUILDING. WHERE PAVING OR FLATWORK ABUTS THE BUILDING, JOINTS SHALL BE EFFECTIVELY SEALED AND MAINTAINED TO PREVENT SURFACE WATER INFILTRATION.
   G. ALL UTILITY TRENCHES THAT PENETRATE BENEATH THE BUILDING SHALL BE EFFECTIVELY SEALED TO RESTRICT WATER INTRUSION AND MIGRATION BENEATH THE STRUCTURE. PROVIDE A COMPACTED CLAY TRENCH PLUG EXTENDING A MINIMUM OF 5'-0" BEYOND THE EXTERIOR FACE OF THE BUILDING. THE CLAY PLUG SHALL COMPLETELY SURROUND THE UTILITY LINE AND SHALL BE COMPACTED AT A MOISTURE CONTENT AT OR ABOVE OPTIMUM IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
   H. REFER TO SHEET S3.01 FOR AUGER CAST-IN-PLACE (ACIP) PILE NOTES.

CAST-IN-PLACE CONCRETE NOTES:

1. REFER TO SECTION 03 3000 OF THE PROJECT SPECIFICATIONS FOR CONCRETE MIX DESIGN REQUIREMENTS.
2. IF THE AIR TEMPERATURE IS GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURES SHALL BE USED. THE CONTRACTOR SHALL SUBMIT A PROCEDURE TO THE SEOR FOR APPROVAL. THESE PROCEDURES MAY INCLUDE THE FOLLOWING:
   A. PLACING THE CONCRETE DURING EARLY MORNING
   B. USE OF EVAPORATION REDUCER (REF BELOW)
   C. USE OF MISTING AS A CURING METHOD
   D. USE OF WET BLANKETS AS A CURING METHOD
3. CONCRETE CYLINDERS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS FOR EACH DAY'S POUR. THE CONCRETE SLUMP, TEMPERATURE, AND AIR CONTENT SHALL BE MEASURED EACH TIME A SET OF FOUR CYLINDERS IS MADE.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR CONCRETE CONSTRUCTION FOR BUILDINGS" (ACI 301) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
5. UNLESS NOTED OTHERWISE, IT SHALL BE ASSUMED THAT CONCRETE REINFORCEMENT BE SPLICED WITH "TYPE B" SPLICES PER ACI 318.
6. COVER FOR ALL REINFORCEMENT SHALL MEET THE COVERAGE REQUIREMENTS of THE LATEST EDITION OF ACI 318 AS NOTED BELOW; OR AS SHOWN ON THE DETAILS. COVER DIMENSIONS SHOWN ON THE DETAILS CONTROL OVER THOSE REQUIRED BY ACI 318 AND THOSE NOTED BELOW:
   A. CAST AGAINST FORMED SURFACES: 1 1/2"
   B. CAST AGAINST EARTH: 3"
   C. BETWEEN REBAR: 1 1/2"
   D. TOP OF SLAB ON GROUND: 1 1/2"
   E. TOP OF SLAB OVER METAL DECK: 1 "
7. ANY CONCRETE TO BE PLACED FURTHER THAN 16 FEET FROM THE END OF A CONCRETE TRUCK SHALL BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK OR OTHER PLACEMENT METHOD APPROVED BY THE SEOR. THE CONCRETE TRUCK SHALL NOT BE ALLOWED TO DRIVE OVER THE PREPARED SUBGRADE OR THE CONCRETE REINFORCEMENT.
8. REINFORCING STEEL SHALL BE NEW, DOMESTIC, DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60, ANY BAR MAY BE FIELD BENT ONE TIME WITHOUT NOTIFYING THE SEOR UNLESS NOTED OTHERWISE. REINFORCEMENT SMALLER THAN #4 BARS SHALL BE COLD BENT. REINFORCEMENT GREATER THAN A #4 BAR SHALL BE BENT WITH HEAT IN THE FIELD. HEATING SHALL BE CONTROLLED BY TEMPERATURE INDICATING CRAYONS AND SHALL REACH A MAXIMUM TEMPERATURE OF 1500 DEG FAHRENHEIT. REINFORCEMENT SHALL NOT BE ARTIFICIALLY COOLED UNTIL TEMPERATURE HAS REDUCED NATURALLY TO BELOW 600 DEG FAHRENHEIT. BENDS SHALL BE GRADUAL AND CARE SHALL BE TAKEN TO PREVENT HEATING OR CRACKING OF CONCRETE. IF REINFORCEMENT MUST BE FIELD BENT MORE THAN ONCE, THE CONTRACTOR SHALL ISSUE AN RFI INDICATING WHICH BARS NEED TO BE FIELD BENT.
9. DOWEL CONCRETE AND CMU WALLS, PILASTERS AND PIERS INTO GRADE BEAMS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3" OF BOTTOM OF GRADE BEAMS, TERMINATED WITH ACI STD. 90 DEGREE HOOK, UNLESS SPECIFICALLY NOTED OTHERWISE.
10. PROVIDE A ROUGH CONCRETE SURFACE (1/4" MINIMUM AMPLITUDE) AT THE INTERSECTION OF CONCRETE WALLS, STEM WALLS, AND PILASTERS WITH THE TOP OF GRADE BEAMS, DO NOT PROVIDE A KEYWAY UNLESS SHOWN OR NOTED ON THE DRAWINGS
11. NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS, BEAMS, OR WALLS EXCEPT AS FOLLOWS:
   A. WHERE SHOWN AND AS DETAILED ON DRAWINGS
   B. MISCELLANEOUS HOLES THROUGH SLABS OR WALLS WHICH DO NOT DISPLACE MORE THAN ONE BAR. THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
12. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. LOCATE WALL CONSTRUCTION JOINTS AT MASONRY CONTROL JOINTS WHERE POSSIBLE. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT. DETAIL JOINT AND SHOW ON SHOP DRAWINGS.
13. SAW-CUTS IN CONCRETE SLABS SHALL BE MADE USING EARLY-ENTRY EQUIPMENT AS SOON AS THE CONCRETE IS OF SUFFICIENT STRENGTH TO SAW WITHOUT RAVELING THE AGGREGATE. ANY TIME LAPSE GREATER THAN 4 HOURS AFTER PLACING THE CONCRETE SHALL BE PERMITTED ONLY IF APPROVED BY THE ENGINEER. IF NOT INDICATED OTHERWISE, FOR PROPOSAL PURPOSES THE CONTRACTOR SHALL ASSUME THAT SAW-CUTS OF SLABS-ON-GRADE SHALL BE REQUIRED BETWEEN ALL COLUMNS, AT CORNERS IN THE SLABS, AND AT 12'-0" ON-CENTER MAX BETWEEN. SAW-CUTS SHALL OCCUR IN BOTH PLAN DIRECTIONS AND PANELS SHALL HAVE ASPECT RATIOS OF A MAXIMUM 1.5:1. THE CONTRACTOR SHALL ISSUE A PROPOSED LAYOUT TO THE SEOR AND ARCHITECT FOR APPROVAL PRIOR TO PLACING SLABS. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL SAW-CUTTING INFORMATION.
14. WHERE MASONRY VENEER IS LOCATED ADJACENT GRADE BEAMS GREATER THAN 24 INCHES HIGH, PROVIDE VENEER TIES IN ACCORDANCE WITH SECTION 04 2000 OF THE PROJECT MANUAL.
15. PLACE INTERMEDIATE HORIZONTAL BARS (#4 AT 12" MAXIMUM) ON EACH VERTICAL FACE OF ALL BEAMS GREATER THAN 36 " IN DEPTH UNLESS NOTED OTHERWISE.
16. CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.
17. REINFORCING BARS, BAR SUPPORTS, AND SPACERS SHALL BE DETAILED AND PROVIDED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL, PROVIDE DAYTON SUPERIOR (800-745-3700) OR EQUAL WIRE-BAR SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS NO FURTHER THAN 4 FEET APART UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS. BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT SHALL BE MANUFACTURED FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE." AND AS FOLLOWS:
   A. FOR CONCRETE SURFACES EXPOSED TO VIEW WHERE LEGS OF WIRE BAR SUPPORTS CONTACT FORM, USE CRSI CLASS 1 PLASTIC-PROTECTED STEEL WIRE OR CRSI CLASS 2 STAINLESS-STEEL BAR SUPPORTS.
   B. FOR SLABS ON GRADE, PROVIDE SAND PLATES OR HORIZONTAL RUNNERS ON BOTTOM WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS OR WHERE VAPOR BARRIER HAS BEEN SPECIFIED. CONCRETE BLOCK OR CLAY MASONRY SHALL NOT BE USED.
18. ALL GRADE BEAM STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. TOP BARS SHALL BE SPLICED AT THE CENTER OF THE SPAN, BOTTOM BARS OVER THE SUPPORTS, AND OTHER HORIZONTAL AND TEMPERATURE BARS AS REQUIRED. REFER TO THE DETAILS AND SCHEDULES FOR SPLICE LENGTHS.
19. SEE ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS FOR EXACT LOCATIONS AND DETAILS OF DEPRESSED SLABS, FLOOR DRAIN LOCATIONS, PLATFORMS, CURBS, AND PADS.
20. NO PIPING OR CONDUITS SHALL BE INSTALLED IN ANY CONCRETE WITHOUT THE APPROVAL OF THE ENGINEER. IN GENERAL, IF APPROVED BY THE ENGINEER, ANY PIPING OR CONDUITS MUST BE LOCATED IN THE MIDDLE OF THE SLAB AND NOT BE OVER ONE INCH IN DIAMETER. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR PENETRATIONS ,
21. EXPANDED POLYSTYRENE FILL SHOWN ON THE PLANS AND SECTIONS SHALL BE CAPABLE OF WITHSTANDING A 200 PSF UNIFORM LOAD WITH A MAXIMUM COMPRESSION RESISTANCE OF 1 PERCENT DEFORMATION AT THAT LOAD WHEN MEASURED IN ACCORDANCE WITH ASTM D6817.
22. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS, AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. FOR EMBEDDED ITEMS AND REQUIRED DETAILS, SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS.
23. ALL PIPING AND DUCT PENETRATIONS THROUGH NEW STRUCTURAL SLABS ARE TO BE SLEEVED OR CHASED. NO CORING OF SLAB IS PERMITTED. ALL PIPING THROUGH EXISTING STRUCTURAL SLABS MAY BE CORED IF APPROVED BY ENGINEER.
24. THE CONTRACTOR SHALL VERIFY VAPOR BARRIER IS PROVIDED UNDER ALL SLAB AREAS WITH TILE, CARPET OR OTHER MOISTURE SENSITIVE COVERINGS PER THE FLOOR FINISH SCHEDULE (AFTER ALL ADDENDA).

STEEL NOTES:

1. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY.
3. ANY CONNECTIONS WITHOUT WELD SYMBOLS SHALL BE AT A MINIMUM WELDED ALL AROUND WITH THE MINIMUM FILLET, FLARE BEVEL OR BUTT WELD SIZE.
4. WELDS THAT ARE INDICATED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR 'S OPTION.
5. WELDING ELECTRODE MATERIAL SHALL BE MATCHED TO THE BASED METAL PER TABLE 3.1 OF AWS D1.1 AND SHALL BE A MINIMUM E70XX (Fu = 70 KSI).
6. STRUCTURAL STEEL AT W-, S-, AND L-SHAPES SHALL CONFORM TO ASTM A572/A572M GRADE 50. STRUCTURAL STEEL AT C-SHAPES AND MC-SHAPES SHALL CONFORM TO ASTM A992/A992M GRADE 50. STRUCTURAL STEEL AT PLATES AND BARS (UP TO 4-INCHES THICK), SHALL CONFORM TO ASTM A572/A572M GRADE 50. STRUCTURAL HSS SQUARE AND RECTANGULAR SECTIONS SHALL CONFORM TO ASTM A500/A500M GRADE C (50 KSI YIELD STRESS). STRUCTURAL HSS ROUND SECTIONS SHALL CONFORM TO ASTM A500/A500M GRADE C (50 KSI YIELD STRESS). STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B (35 KSI YIELD STRESS).
7. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
8. CONNECTIONS:
   A. ALL STEEL CONNECTIONS SHALL BE DESIGNED BY A CONNECTION ENGINEER TO BE HIRED BY THE CONTRACTOR. THE CONTRACTOR 'S CONNECTION ENGINEER RESPONSIBLE FOR THE CONNECTION DESIGN SHALL BE A PROFESSIONAL ENGINEER FAMILIAR WITH THE DESIGN OF SUCH ELEMENTS AND SHALL BE LICENSED TO PRACTICE ENGINEERING IN THE STATE OF TEXAS. CONNECTION DESIGNS AND DETAILS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED MINIMUMS. FINAL CONFIGURATION, PLATE AND ANGLE THICKNESSES, NUMBER OF BOLTS, BOLT DIAMETERS, AND WELD DESIGNS SHALL BE DESIGNED BY THE CONTRACTOR 'S CONNECTION ENGINEER. CONNECTION DESIGN WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
   B. TYPE OF REQUIRED CONNECTION (BOLT BEARING, PRE-TENSIONED, OR SLIP-CRITICAL) SHALL BE DETERMINED BY THE CONTRACTOR 'S CONNECTION ENGINEER, HOWEVER, BOLT BEARING TYPE IN A SNUG-TIGHT CONDITION SHALL BE USED WHERE PRE-TENSIONED OR SLIP-CRITICAL IS NOT REQUIRED.
   C. CONNECTIONS DESIGNED AS PRE-TENSIONED OR SLIP-CRITICAL SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR'S CONNECTION ENGINEER.
   D. BOLT TYPES:
      1. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO 3/4" (MINIMUM) DIAMETER A325 TYPE N OR A325 SC BOLTS IN STANDARD HOLES UNLESS NOTED OTHERWISE OR AS DETERMINED BY THE CONTRACTOR 'S CONNECTION ENGINEER.
      2. PRE-TENSIONED AND SLIP-CRITICAL BOLTS SHALL BE INDICATOR TYPE BOLTS EQUAL TO TENSION CONTROLLED BOLTS OF THE LeJEUNE COMPANY OF LAKEVILLE, MINNESOTA (800-872-2658).
   E. LOADS PROVIDED ON PLAN ARE LRFD FACTORED REACTIONS UNLESS NOTED OTHERWISE.
   F. WHERE A DESIGN SHEAR REACTION IS NOT PROVIDED ON PLAN, IN SECTION, OR IN PLAN NOTES,THE DESIGN SHEAR FOR THE CONNECTION SHALL BE AS FOLLOWS, WITH A MINIMUM FACTORED REACTION OF 14 KIPS:
      1. AT ROOF AND NON-COMPOSITE FLOOR BEAMS: 110% OF THE REACTION FROM THE MAXIMUM TOTAL UNIFORM LOAD PER TABLE 3-6 THROUGH TABLE 3-9 IN THE AISC STEEL CONSTRUCTION MANUAL.
      2. AT COMPOSITE FLOOR BEAMS: 180% OF THE REACTION FROM THE MAXIMUM TOTAL UNIFORM LOAD PER TABLE 3-6 THROUGH TABLE 3-9 IN THE AISC STEEL CONSTRUCTION MANUAL
      3. CONCENTRATED LOADS WITHIN A DISTANCE OF THE BEAM DEPTH FROM THE END OF THE BEAM SHALL BE ADDED TO THE MINIMUM ROOF AND FLOOR BEAM REACTIONS NOTED ABOVE
   G. THE DESIGN AXIAL LOAD FOR BRACE CONNECTIONS AT BRACED FRAMES SHALL BE AS NOTED ON THE DRAWINGS. WHERE NO REACTION IS PROVIDED, THE BRACE CONNECTION SHALL BE DESIGNED FOR A COMPRESSIVE LOAD EQUAL TO THE MAXIMUM AVAILABLE STRENGTH IN AXIAL COMPRESSION PER TABLE 4-1 THROUGH TABLE 4-12 IN THE 14 TH EDITION OF THE AISC STEEL MANUAL AND FOR A TENSILE LOAD EQUAL TO 75 % OF THE MAXIMUM AVAILABLE STRENGTH IN AXIAL TENSION PER TABLES 5-1 THROUGH 5-8 IN THE 14 TH EDITION OF THE AISC STEEL MANUAL.
9. ALL STEEL BEAMS TO RECEIVE SHEAR CONNECTORS SHALL HAVE NO PAINTING ON THE TOP FLANGES.
10. SHEAR CONNECTORS (SC) SHOWN ON THE PLAN SHALL BE 3/4" DIAMETER EQUAL TO NELSON FLUXED SHEAR CONNECTOR STUDS (UNO) WITH LENGTH EQUAL TO THE SLAB THICKNESS MINUS 1 ". STUDS SHALL BE CAPABLE OF DEVELOPING 17.2 KIPS IN SHEAR PER CONNECTOR WHEN INSTALLED. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE FIELD. EQUALLY SPACE STUDS AND STAGGER ON BEAMS PARALLEL TO THE DECK UNLESS DETAILED OTHERWISE. ON BEAMS PERPENDICULAR TO THE DECK, PLACE ONE STUD IN EACH RIB AND DOUBLE UP REMAINING REQUIRED ON EACH END. CLEAN OFF ALL WELD FLUX AND WELDING FERRULES FROM SHEAR CONNECTORS BEFORE PLACING CONCRETE. THE ENGINEER SHALL APPROVE ALL STUD PLACEMENT OPERATIONS.
11. PROVIDE 3/8" STIFFENER PLATES ON EACH SIDE OF THE WEB OF ALL BEAMS AT ALL SUPPORTS THAT ARE BELOW THE BEAM, AND AT ALL COLUMNS THAT ARE ABOVE THE BEAM, OMITTING WHERE BEAMS INTERSECT.
12. FOR PROPOSAL PURPOSES, STEEL FABRICATORS WITH NON-AISC SHOPS SHALL ASSUME THAT THE FULL SCOPE OF INSPECTION AND TESTING FOR ON-SITE STEEL CONSTRUCTION WILL APPLY TO ALL STEEL FABRICATED IN THE NON-AISC-CERTIFIED SHOP CONSTRUCTION.
13. UNLESS NOTED OTHERWISE, WHERE SLOTTED HOLES ARE DETAILED, PROVIDE LONG-SLOT HOLES AS DIMENSIONED IN THE NOMINAL HOLE DIMENSIONS TABLE IN CHAPTER J OF THE APPLICABLE AISC STEEL CONSTRUCTION MANUAL.
14. TOP OF BEAMS ELEVATIONS ARE DELIBERATELY NOT PROVIDED ON THE FRAMING PLANS BECAUSE THE TOP OF BEAM ELEVATION SHALL BE ESTABLISHED BY THE STEEL DETAILER BASED ON THE GEOMETRIC ROOF REQUIREMENTS DEFINED BY THE CONSTRUCTION DRAWINGS AND BOTTOM OF DECK ELEVATIONS. THE TOP OF BEAM ELEVATIONS SHALL ACCOUNT FOR THE ACTUAL JOIST SEAT DEPTHS, AS ESTABLISHED ON THE STEEL JOIST SHOP DRAWINGS.
15. ALL STRUCTURAL STEEL MEMBERS, JOISTS, AND METAL DECKS SHALL BE CONSIDERED AS PRIMARY FRAMING FOR FIREPROOFING PURPOSES UNLESS NOTED OTHERWISE.

STEEL JOIST AND ROOF DECK NOTES:

1. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS FOR OPEN WEB JOISTS. MATERIAL SHALL BE DOMESTIC STEEL WITH ANGLES FOR BOTTOM CHORDS. BRIDGING SHALL BE PROVIDED FOR ALL JOISTS IN ACCORDANCE WITH SJI REQUIREMENTS.
2. METAL ROOF DECK SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND AS INDICATED ON THE PLANS. METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS PER THE PROJECT SPECIFICATIONS.
3. THE JOIST GIRDERS SHALL BE DESIGNED AS A SIMPLE SPAN WITH THE UNFACTORED JOIST REACTIONS INDICATED BY THE JOIST GIRDER DESIGNATION (DEAD LOAD AND LIVE LOAD).
4. ALL JOISTS SHALL HAVE BOTTOM CHORD UPLIFT BRIDGING AT EACH END AND BE DESIGNED FOR C&C UPLIFT WIND PRESSURES PROVIDED IN THE DESIGN LOAD NOTES. IT IS ACCEPTABLE TO UTILIZE A RELIABLE ROOF DEAD LOAD OF 5 PSF (SERVICE LEVEL) AND THE WEIGHT OF THE JOIST IN THE CALCULATION OF NET UPLIFT.
5. FOR ALL ROOF PENETRATIONS THROUGH METAL DECK 8 " OR LARGER PROVIDE AN L3x3x1/4 AROUND THE OPENING AND FRAME ALL SIDES (EXCEPT WHERE OPENING EDGE IS WITHIN 1 '-0" OF ANOTHER FRAMING MEMBER - JOIST/BEAM) WITH A STRUCTURAL MEMBER. FRAMING NOT REQUIRED FOR ROOF OPENINGS SMALLER THAN 8 " .
6. LOADINGS F

BUILDING 3D AXONOMETRIC VIEW IS CONCEPTUAL ONLY. THE PLANS, DETAILS, SECTIONS AND SPECIFICATIONS SHALL GOVERN.

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
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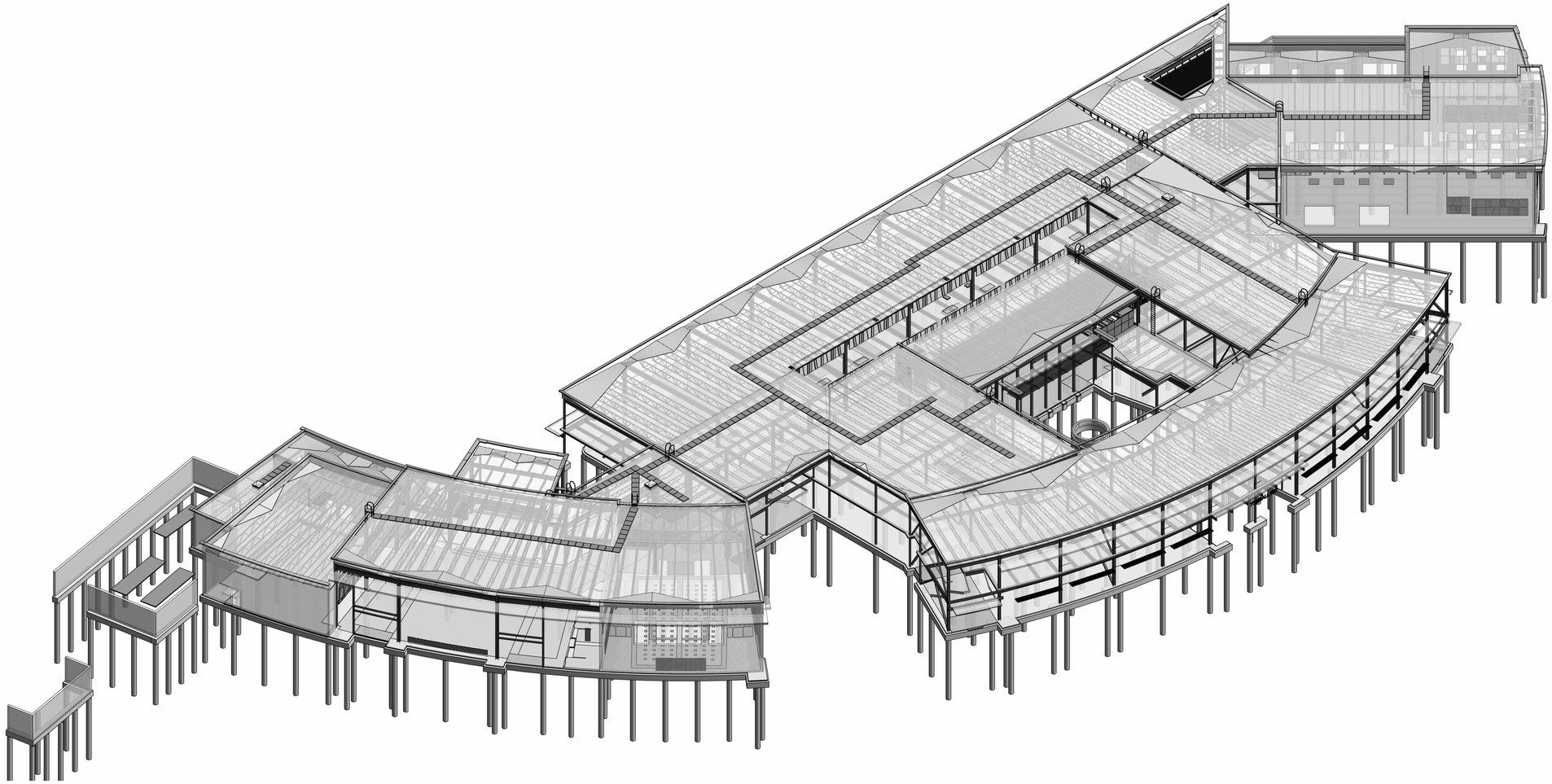

1 AXONOMETRIC 3D VIEW
S0.03

AXONOMETRIC 3D VIEW

VOLUME 01

Job No.	Sheet No.
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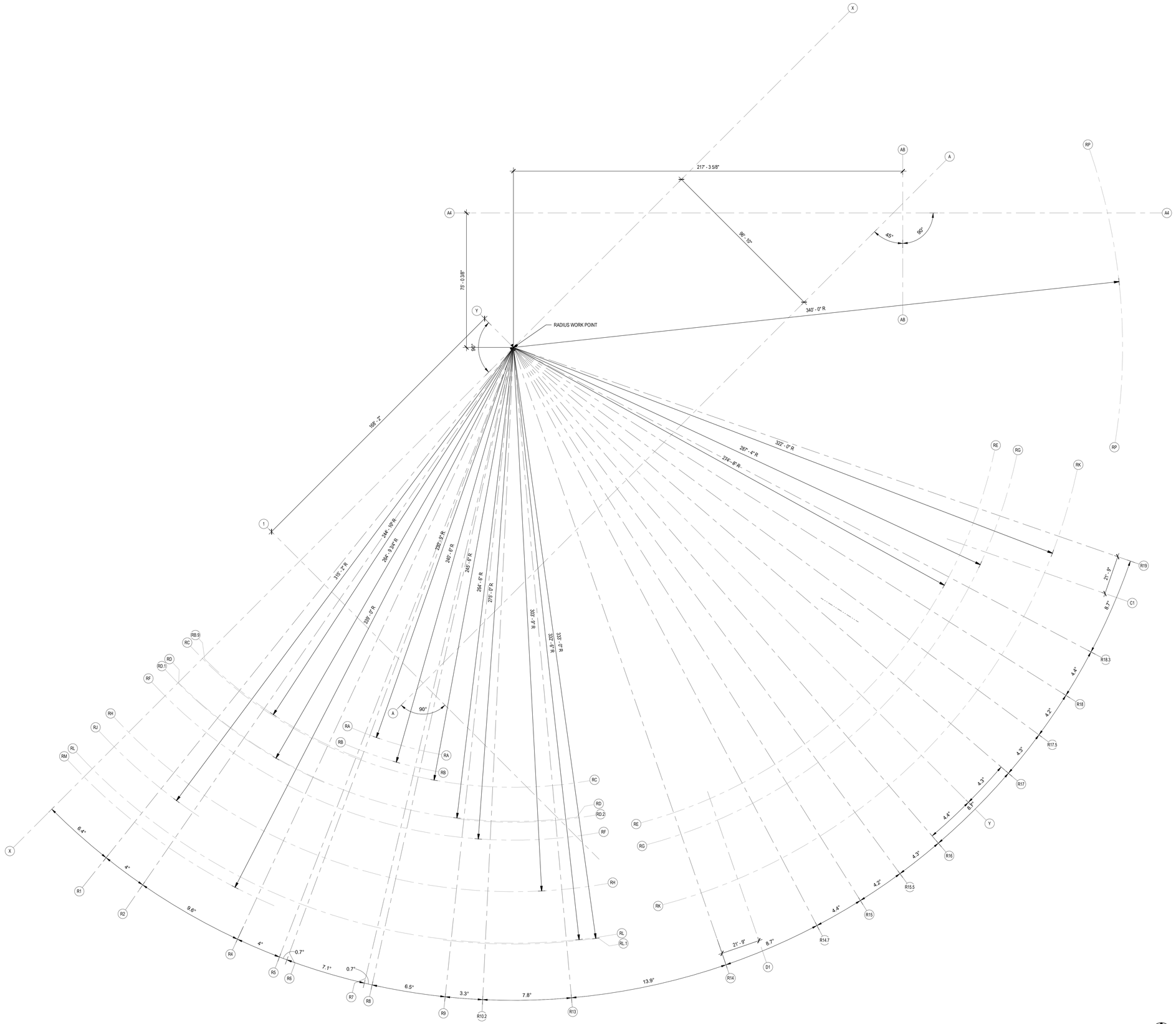
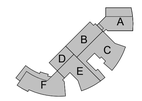


1 MASTER PLAN - DIMENSION CONTROL - GRIDS
S1.01 3/64" = 1'-0"

PLAN

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
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MASTER PLAN - DIMENSION CONTROL - GRIDS

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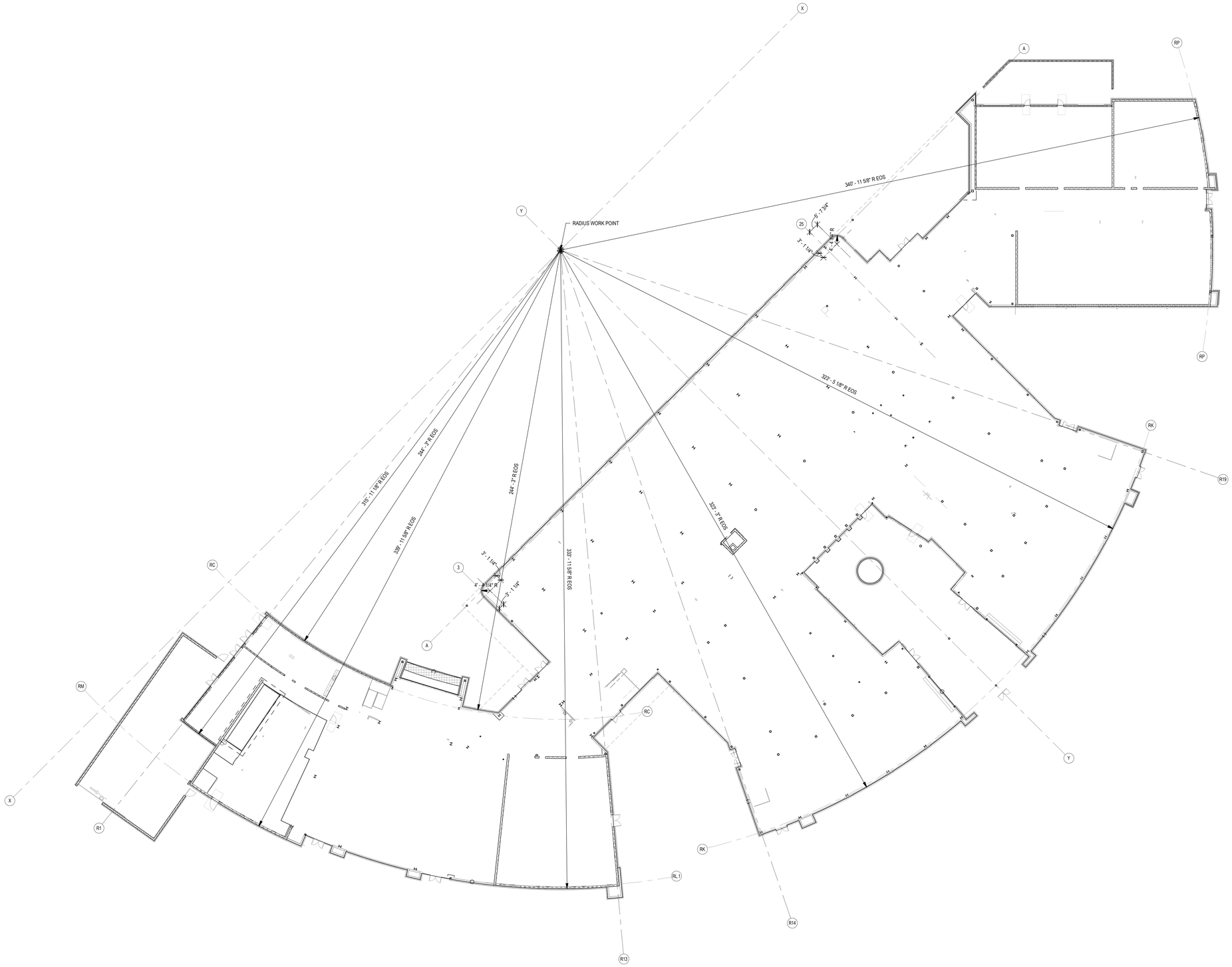
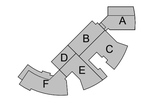


1 MASTER PLAN - DIMENSION CONTROL - FOUNDATION
S1.02 3/64" = 1'-0"

N
PLAN

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

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MASTER PLAN - DIMENSION CONTROL - FOUNDATION

VOLUME 01

Job No.	Sheet No.
00802-04-01	S1.02
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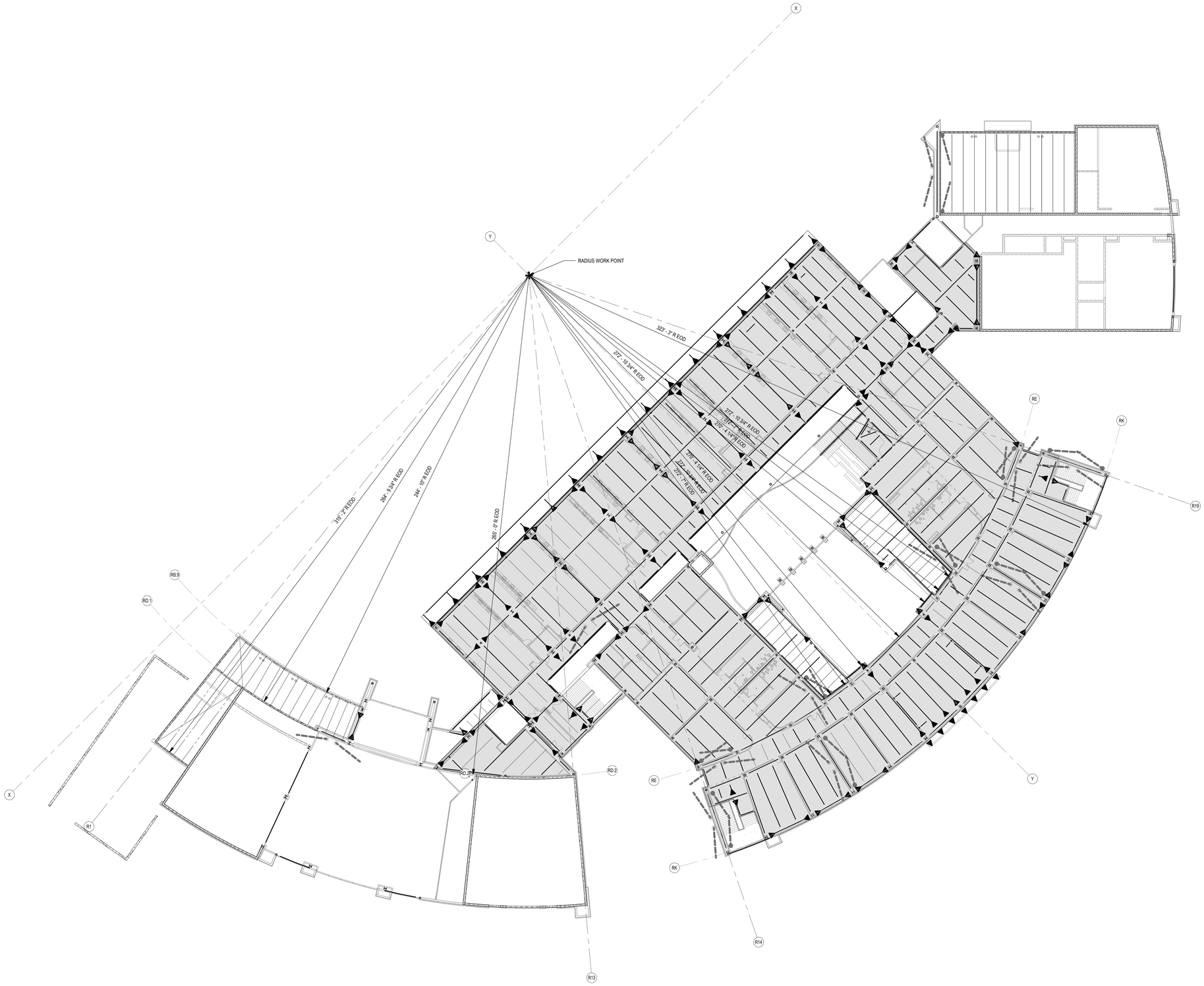
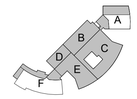


1 MASTER PLAN - DIMENSION CONTROL - FLOOR & LOW FRAMING PLAN
S1.03 3/64" = 1'-0"

N
PLAN

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 2ND FLOOR
N.T.S.

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MASTER PLAN - DIMENSION CONTROL - FLOOR & LOW FRAMING PLAN

VOLUME 01

Job No.	Sheet No.
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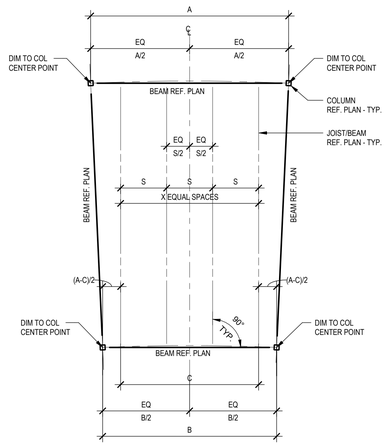

2 TYPICAL PURLIN LAYOUT AT TYPICAL "WEDGE" BAY
S1.04 NONE

1 MASTER PLAN - DIMENSION CONTROL - ROOF FRAMING PLAN
S1.04 3/64" = 1'-0"

N
PLAN

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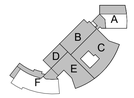
MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 2ND FLOOR
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MASTER PLAN - DIMENSION CONTROL - ROOF FRAMING PLAN

VOLUME 01

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1 MASTER PLAN - DEEP FOUNDATION ELEMENTS
S1.05 1/16" = 1'-0"

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MASTER FLOOR PLAN AND PLAN SECTIONS

KEY PLAN - 2ND FLOOR
N.T.S.

MASTER PLAN - DEEP FOUNDATION ELEMENTS

VOLUME 01

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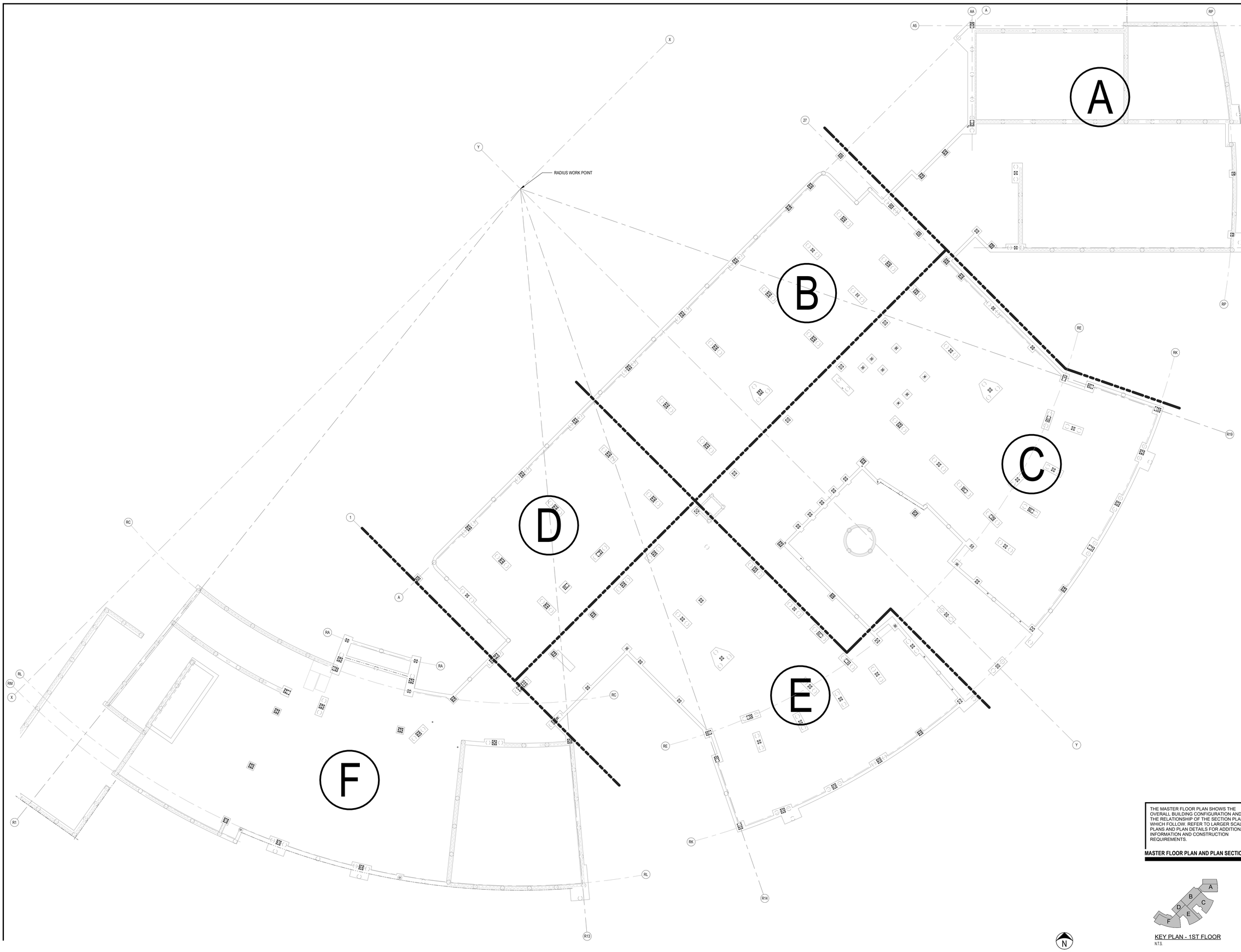

1 ANCHOR ROD PLACEMENT PLAN - MASTER PLAN
S1.06 1/16" = 1'-0"

N
PLAN

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MASTER FLOOR PLAN AND PLAN SECTIONS

KEY PLAN - 1ST FLOOR
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MASTER PLAN - ANCHOR ROD PLAN

VOLUME 01

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RADIUS WORK POINT

A

B

C

D

E

F

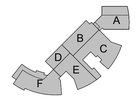
DASHED LINE INDICATES THE MINIMUM EXTENTS OF THE 48-IN. THICK SELECT FILL BUILDING PAD, AS SPECIFIED IN THE FOUNDATION AND SOIL PREPARATION NOTES ON SHEET S0.01. UNLESS OTHERWISE INDICATED, THE BUILDING PAD SHALL EXTEND A MINIMUM OF 5'-0" BEYOND THE FACE OF THE BUILDING.

1 MASTER PLAN - FOUNDATION
S1.07 1/16" = 1'-0"

N
PLAN

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 1ST FLOOR
N.T.S.

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MASTER PLAN - FOUNDATION

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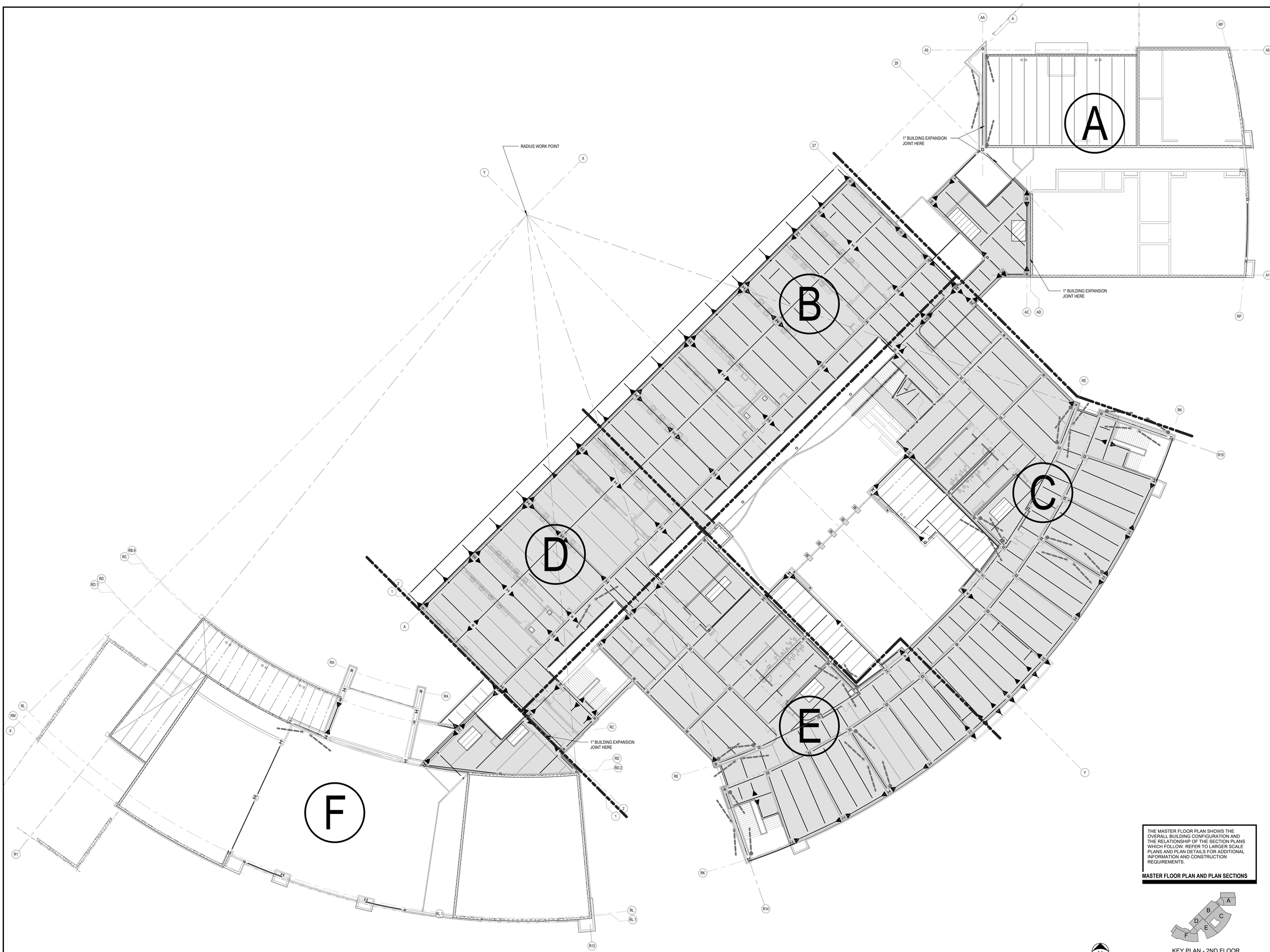

1 MASTER PLAN - FLOOR & LOW FRAMING PLAN
S1.08 1/16" = 1'-0"

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MASTER FLOOR PLAN AND PLAN SECTIONS

KEY PLAN - 2ND FLOOR
N.T.S.

N
PLAN

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MASTER PLAN - FLOOR FRAMING

VOLUME 01

Job No.	Sheet No.
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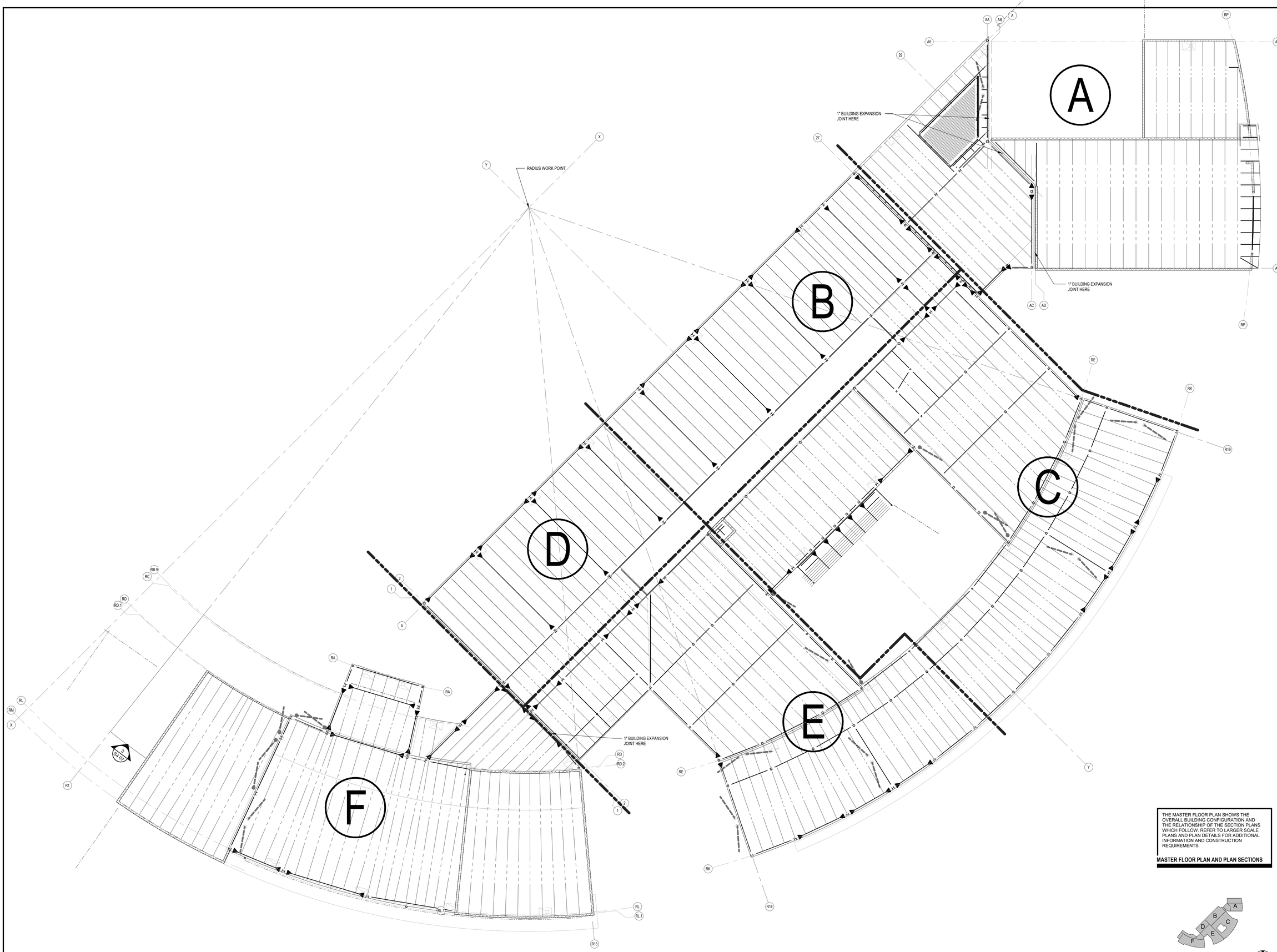

1 MASTER PLAN - ROOF FRAMING PLAN
S1.09 1/16" = 1'-0"

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS

KEY PLAN - 2ND FLOOR
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MASTER PLAN - ROOF FRAMING

VOLUME 01

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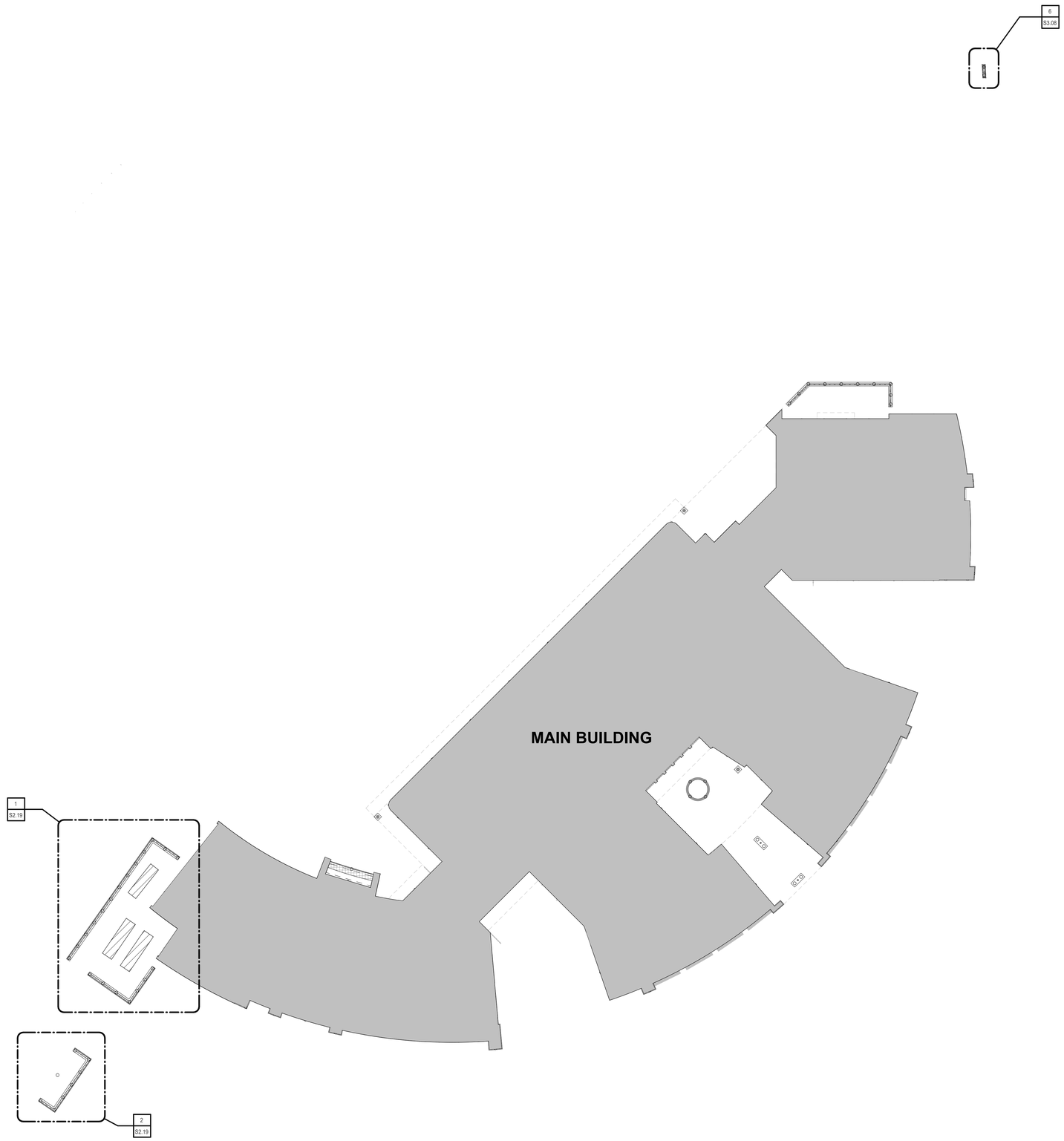

1 MASTER PLAN - SITE
S1.10 1" = 30'-0"

N
PLAN

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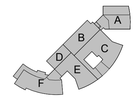
MASTER FLOOR PLAN AND PLAN SECTIONS



KEY PLAN - 1ST FLOOR
N.T.S.

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MASTER PLAN - SITE

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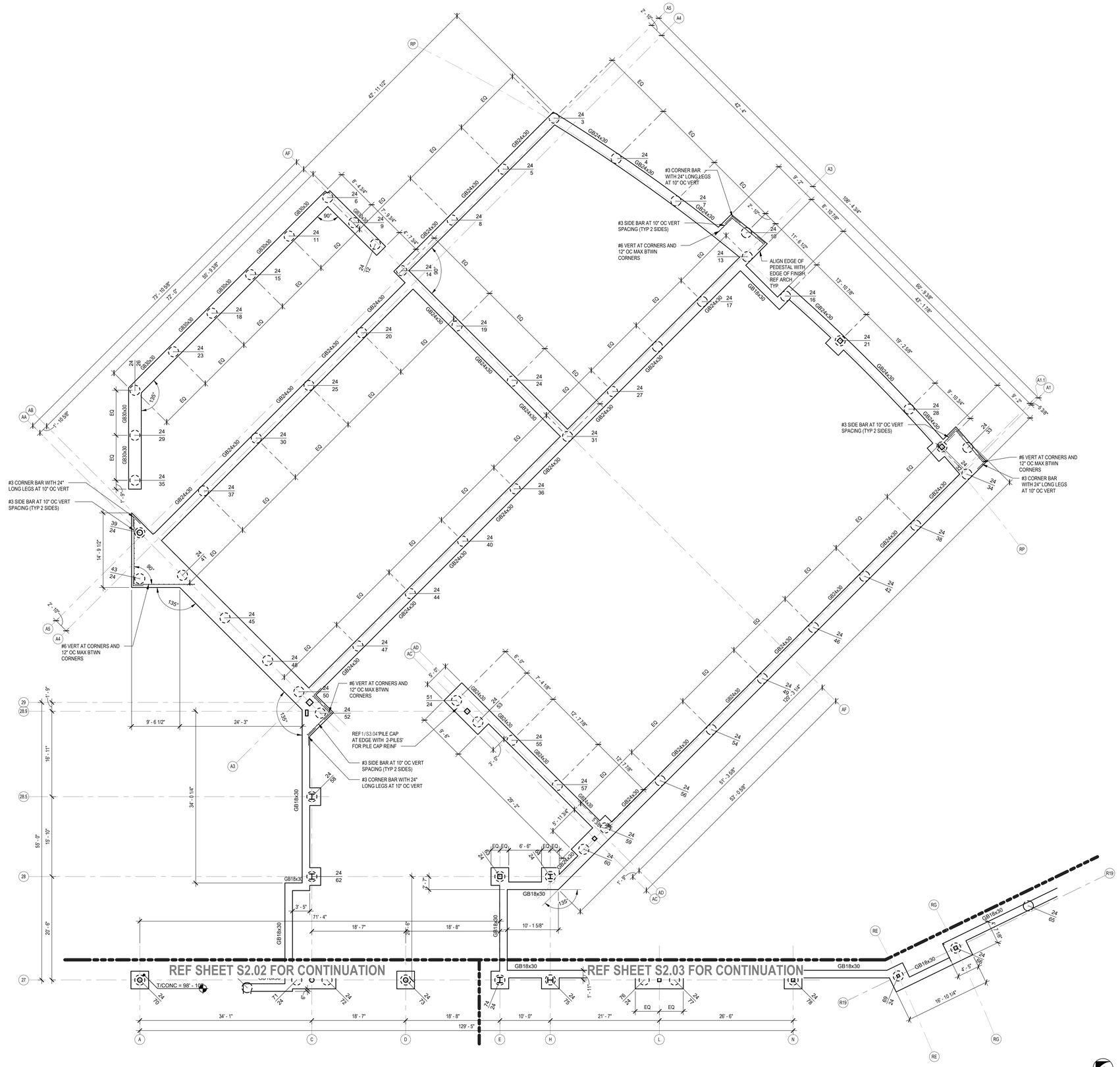
RP
AF
A5
A4
A3
AD
AC
A8
A1.1
A1
RG
RE
R19
42' - 11 1/2"
73' - 10 5/8"
72' - 0"
55' - 9 3/8"
42' - 4"
106' - 4 3/8"
60' - 3 3/8"
43' - 1 7/8"
11' - 6 1/2"
13' - 10 7/8"
16' - 2 3/8"
9' - 10 3/8"
9' - 7"
8' - 10 7/8"
8' - 4 5/8"
4' - 7 3/4"
4' - 9 3/4"
2' - 10"
1' - 10 5/8"
5' - 5"
14' - 9 1/2"
9' - 6 1/2"
24' - 3"
34' - 0 1/4"
16' - 11"
15' - 10"
20' - 6"
55' - 0"
1' - 9"
3' - 5"
71' - 4"
18' - 7"
18' - 8"
10' - 1 5/8"
34' - 1"
10' - 0"
21' - 7"
26' - 6"
129' - 5"
6' - 6"
5' - 10"
7' - 4 1/8"
12' - 7 7/8"
5' - 11 3/4"
26' - 7"
5' - 6"
3' - 0"
1' - 5"
16' - 10 1/4"
4' - 5"
GB24x30
GB30x30
GB18x30
GB18x30
GB24x30
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GB24

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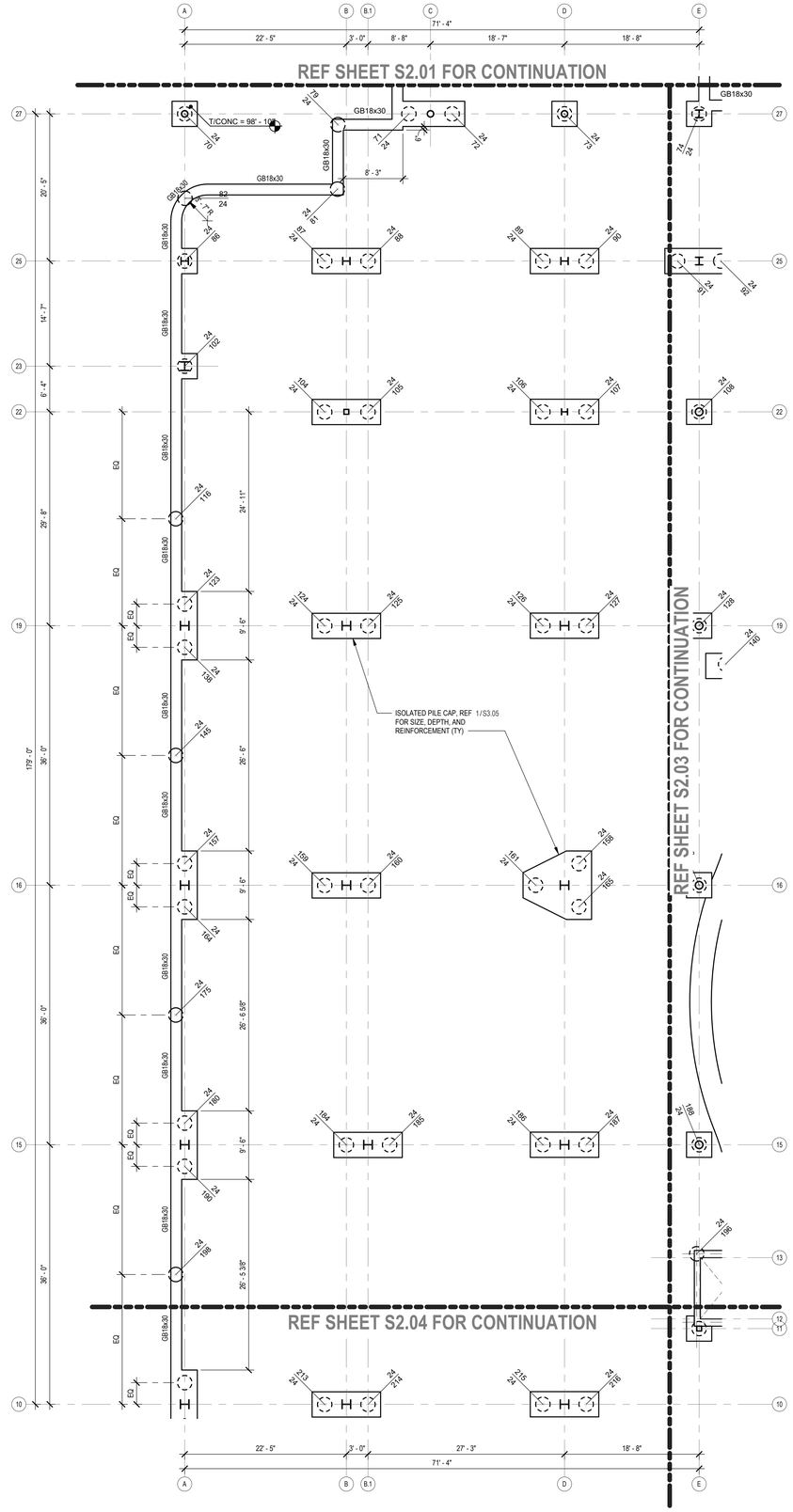
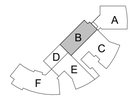
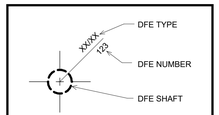


1 DEEP FOUNDATION ELEMENTS PLAN - AREA B
S2.02 1/8" = 1'-0"

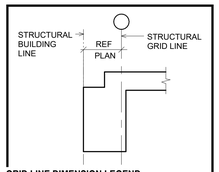
PLAN



KEY PLAN - 1ST FLOOR
N.T.S.



DFE PLAN LEGEND



GRID LINE DIMENSION LEGEND

DFE PLAN NOTES

1. REFERENCE 1/S3.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

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DEEP FOUNDATION ELEMENTS PLAN - AREA B

VOLUME 01

Job No.	Sheet No.
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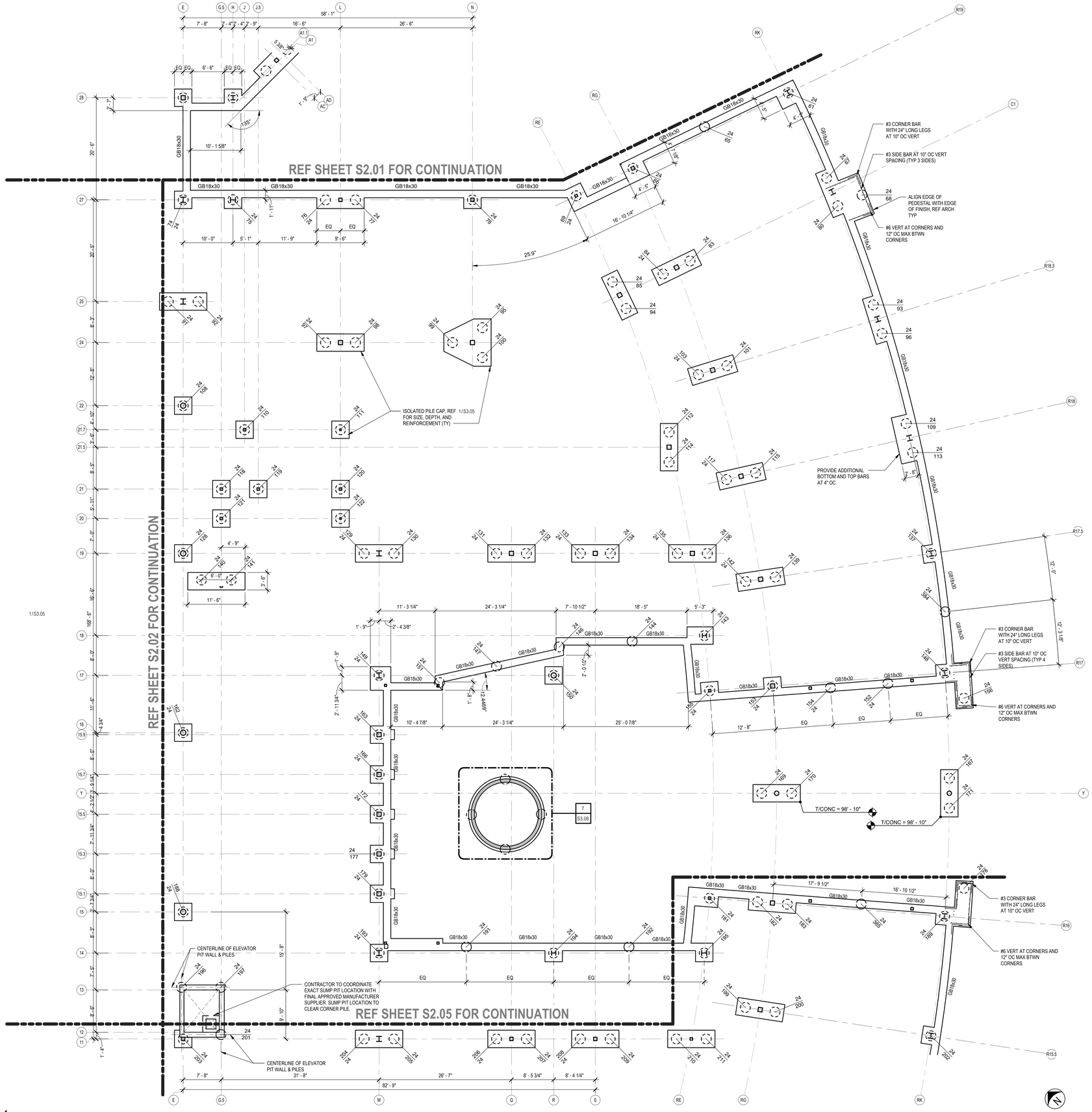

1 DEEP FOUNDATION ELEMENTS PLAN - AREA C
S2.03 1/8" = 1'-0"

PLAN

KEY PLAN - 1ST FLOOR
N.T.S.

DFE TYPE
DFE NUMBER
DFE SHAFT
GRADE BEAM
PIER CAP
PILASTER
BUILDING LINE
MATCH LINE

DFE PLAN LEGEND

STRUCTURAL BUILDING LINE
REF PLAN
STRUCTURAL GRID LINE

GRID LINE DIMENSION LEGEND

1. REFERENCE 1/S3.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

DFE PLAN NOTES

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DEEP FOUNDATION ELEMENTS PLAN - AREA C

VOLUME 01

Job No.	Sheet No.
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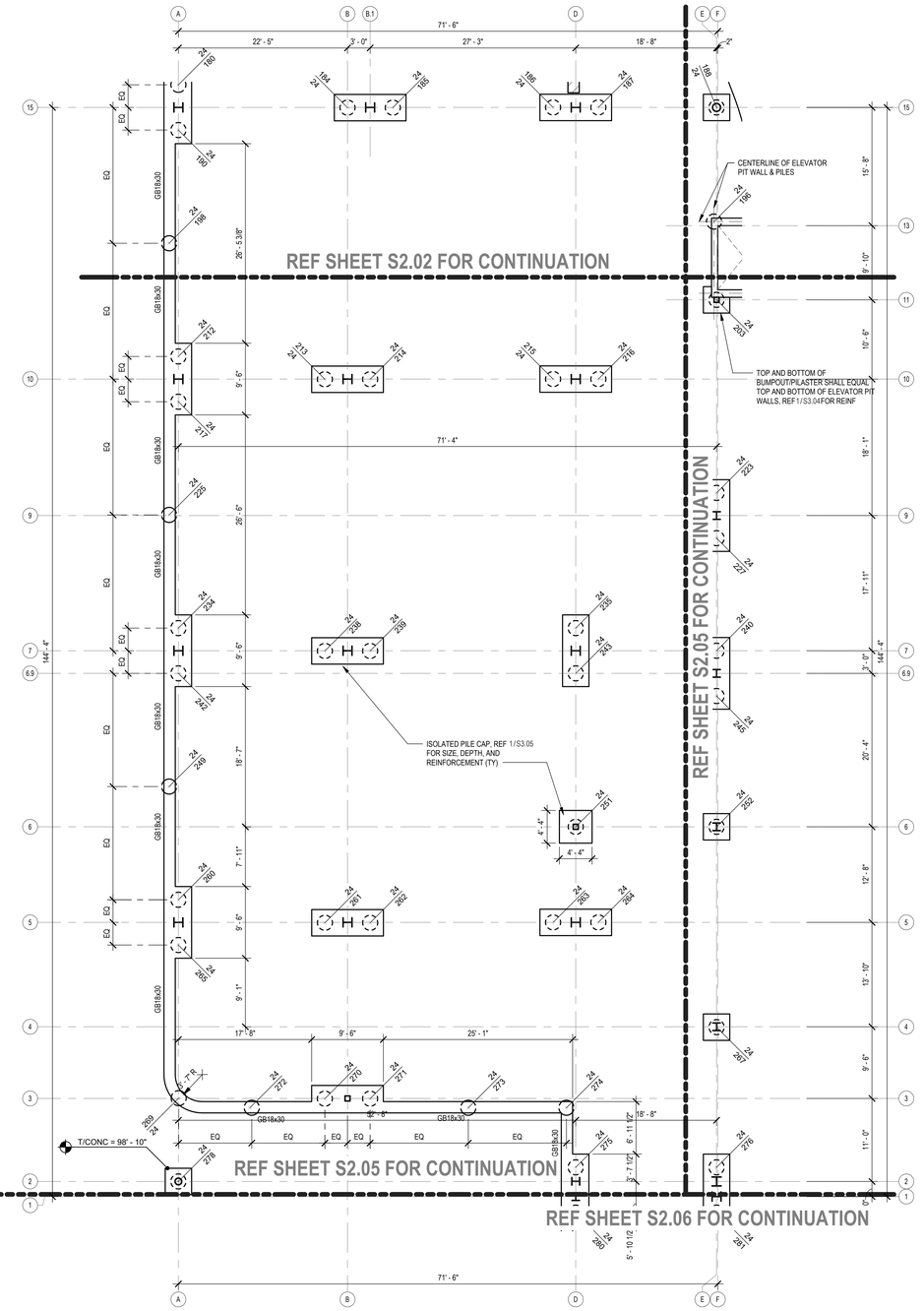
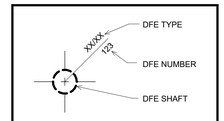
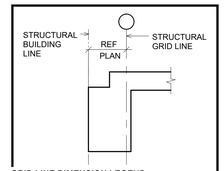


1 DEEP FOUNDATION ELEMENTS PLAN - AREA D
S2.04 1/8" = 1'-0"



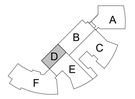
DFE PLAN LEGEND



GRID LINE DIMENSION LEGEND

1. REFERENCE 1/S3.01 FOR TYPICAL DEEP FOUNDATION ELEMENT DETAIL AND SCHEDULE.
2. DEEP FOUNDATION ELEMENT SHALL BE CENTERED UNDER GRADE BEAMS OR COLUMNS UNLESS NOTED OTHERWISE.
3. TOP OF DEEP FOUNDATION ELEMENT ELEVATION SHALL EQUAL TO BOTTOM OF GRADE BEAM OR PILASTER UNLESS NOTED OTHERWISE.
4. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.

DFE PLAN NOTES



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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LICENSED PROFESSIONAL ENGINEER
7.14.2026

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DEEP FOUNDATION ELEMENTS PLAN - AREA D

VOLUME 01

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00802-04-01	S2.04
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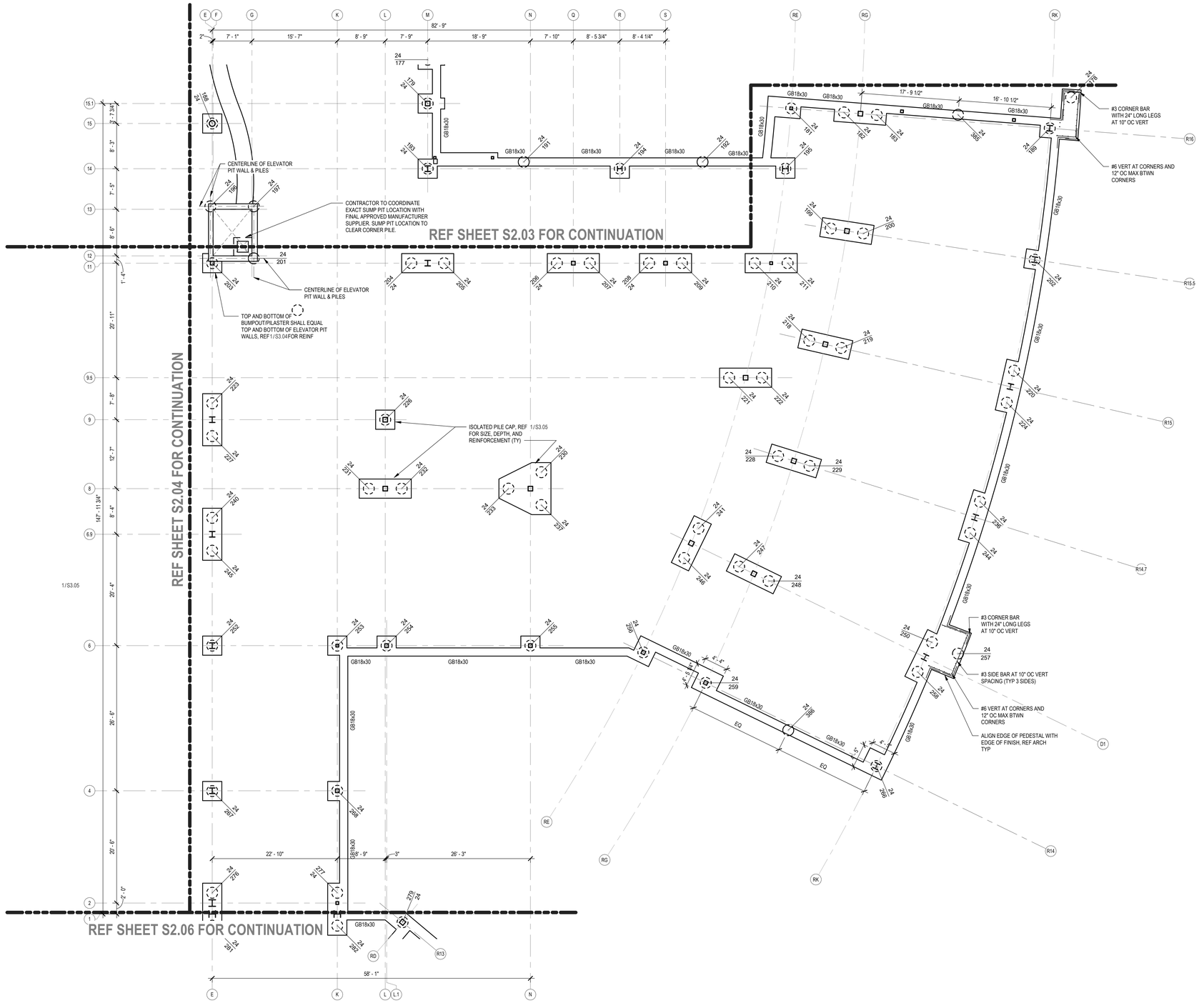
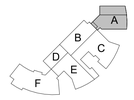


1 DEEP FOUNDATION ELEMENTS PLAN - AREA E
S2.05 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

DFE TYPE
DFE NUMBER
DFE SHAFT
GRADE BEAM
PIER CAP
PILASTER
BUILDING LINE
MATCH LINE

DFE PLAN LEGEND

STRUCTURAL BUILDING LINE
REF PLAN
STRUCTURAL GRID LINE

GRID LINE DIMENSION LEGEND

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DFE PLAN NOTES

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DEEP FOUNDATION ELEMENTS PLAN - AREA E

VOLUME 01

Job No.	Sheet No.
03802-04-01	S2.05
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Date: 07.15.26	

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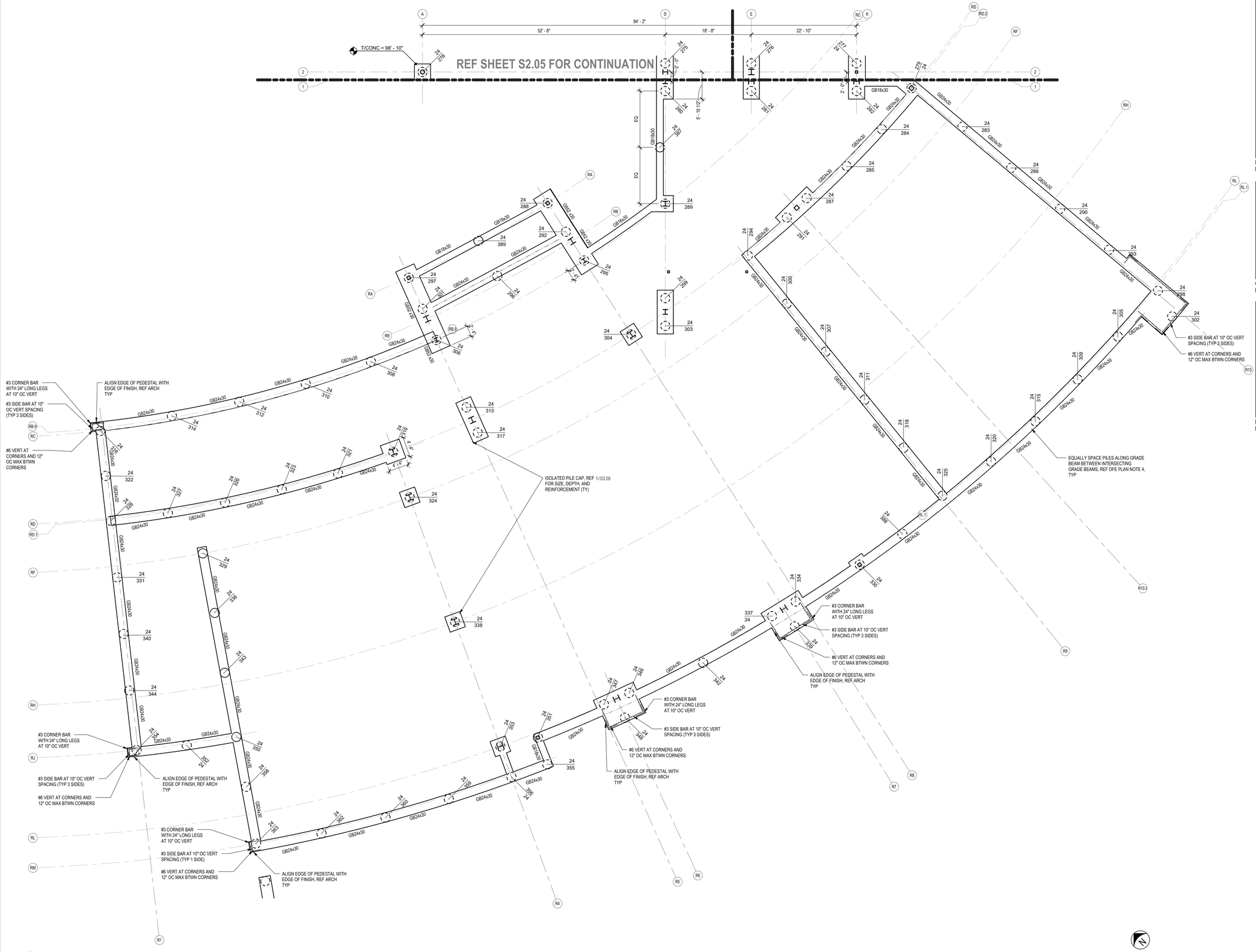
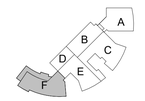
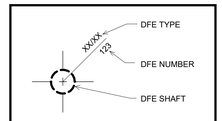


1 DEEP FOUNDATION ELEMENTS PLAN - AREA F
S2.06 1/8" = 1'-0"

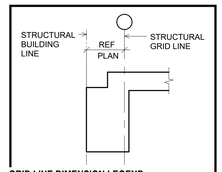
PLAN



KEY PLAN - 1ST FLOOR
N.T.S.



DFE PLAN LEGEND



GRID LINE DIMENSION LEGEND

DFE PLAN NOTES

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DEEP FOUNDATION ELEMENTS PLAN - AREA F

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Job No.	Sheet No.
03802-04-01	S2.06
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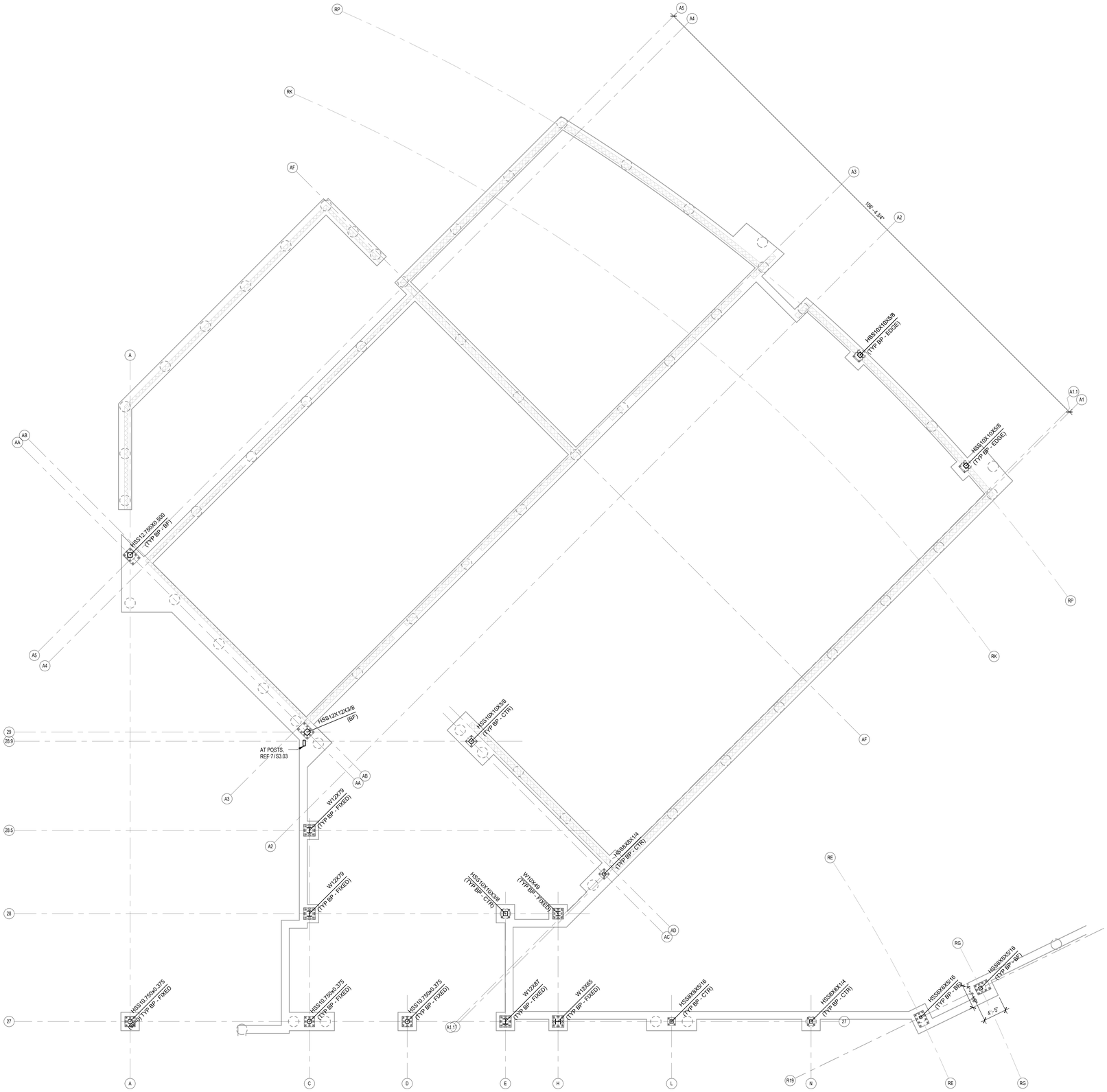

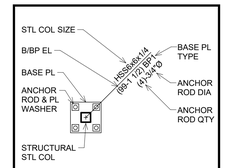

STRUCTURAL STL COL

GRADE BEAM

PILASTER IN GRADE BEAM

ISOLATED PIER CAP/PILASTER

DFE

ANCHOR ROD PLACEMENT PLAN LEGEND

1. THIS ANCHOR ROD PLACEMENT PLAN IS INTENDED TO BE AN AIDE TO THE CONTRACTOR FOR PREPARING THEIR OWN ANCHOR ROD PLACEMENT PLANS, AND IS NOT A SUBSTITUTE FOR PREPARATION OF THOSE SHOP DRAWINGS.
2. B/BP EL = 99'-5 1/2" UNO.
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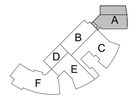
4. FOR BASE PLATE LABELED "TYP BP - EDGE" REFERENCE 2/S3.02
5. FOR BASE PLATE LABELED "TYP BP - FIXED" REFERENCE 5/S3.02
6. FOR BASE PLATE LABELED "TYP BP - BF" REFERENCE 3/S3.02

ANCHOR ROD PLACEMENT PLAN NOTES

1 ANCHOR ROD PLACEMENT PLAN - AREA A
S2.07 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

Date

Revision /

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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ANCHOR ROD PLACEMENT PLAN - AREA A

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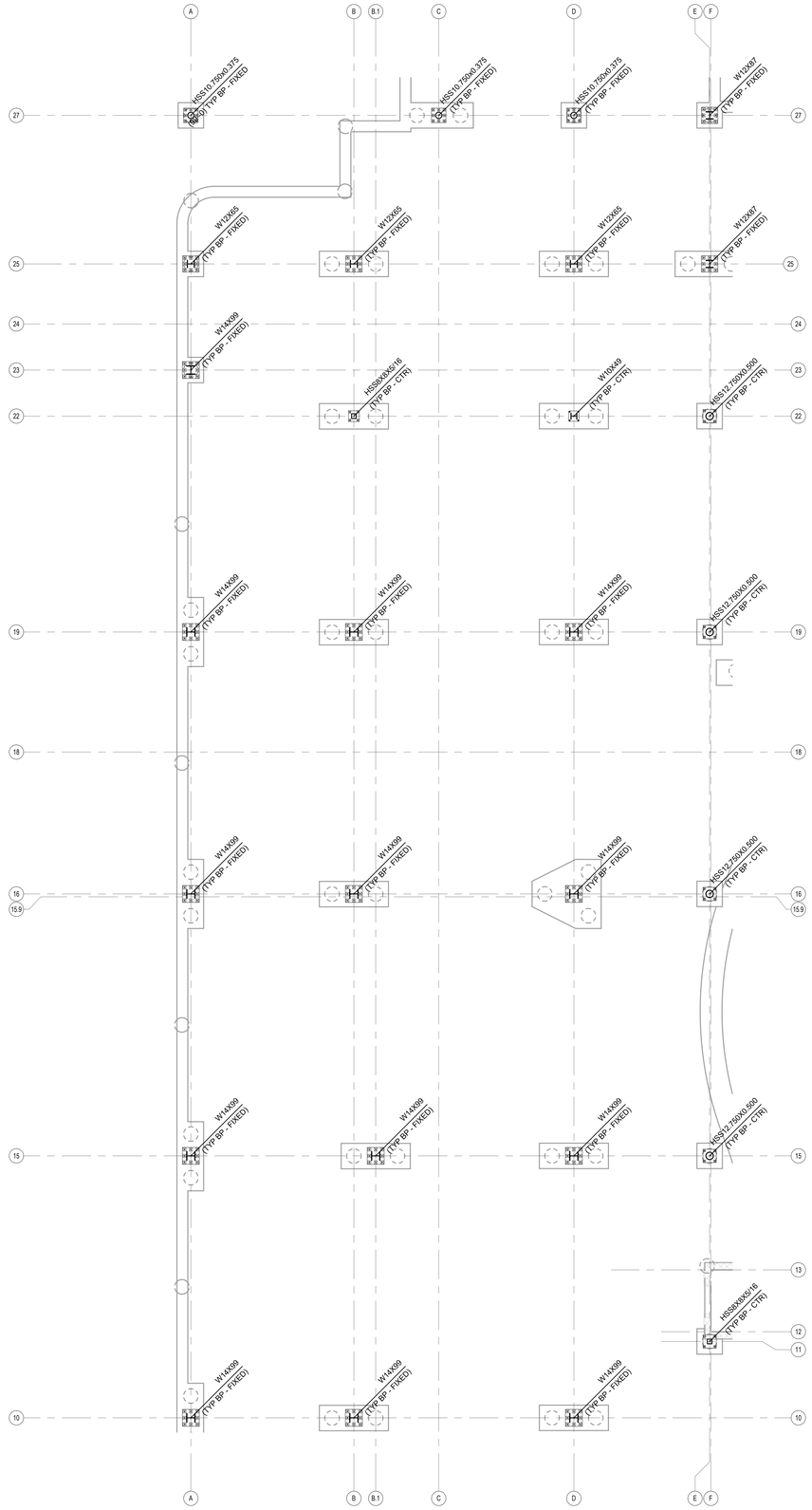
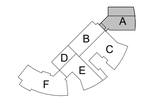
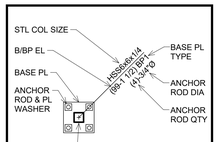


1 ANCHOR ROD PLACEMENT PLAN - AREA B
S2.08 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.



STRUCTURAL STL COL

GRADE BEAM

PILASTER IN GRADE BEAM

ISOLATED PIER CAP/PILASTER

DFE

ANCHOR ROD PLACEMENT PLAN LEGEND

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6. FOR BASE PLATE LABELED "TYP BP - BF" REFERENCE 3/S3.02

ANCHOR ROD PLACEMENT PLAN NOTES

Revision / Date

Project:
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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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ANCHOR ROD PLACEMENT PLAN - AREA B

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Job No. 00802-04-01	Sheet No. S2.08
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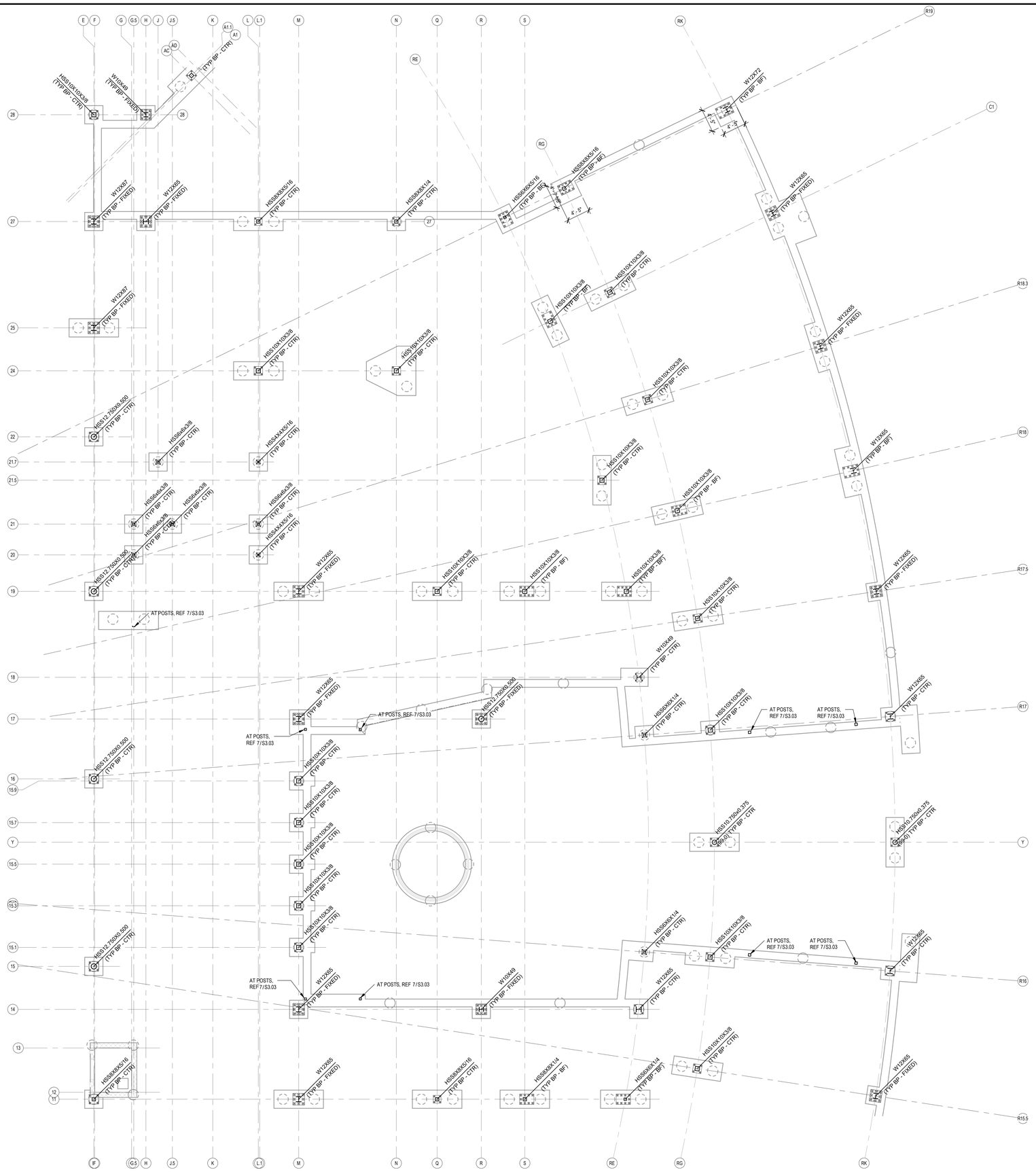
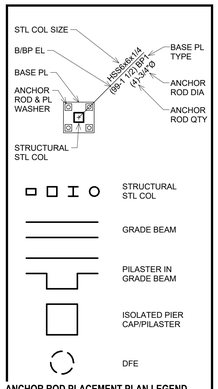


1 ANCHOR ROD PLACEMENT PLAN - AREA C
S2.09 1/8" = 1'-0"



ANCHOR ROD PLACEMENT PLAN LEGEND

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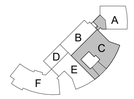
6. FOR BASE PLATE LABELED "TYP BP - BF" REFERENCE 3/S3.02

ANCHOR ROD PLACEMENT PLAN NOTES



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
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ANCHOR ROD PLACEMENT PLAN - AREA C

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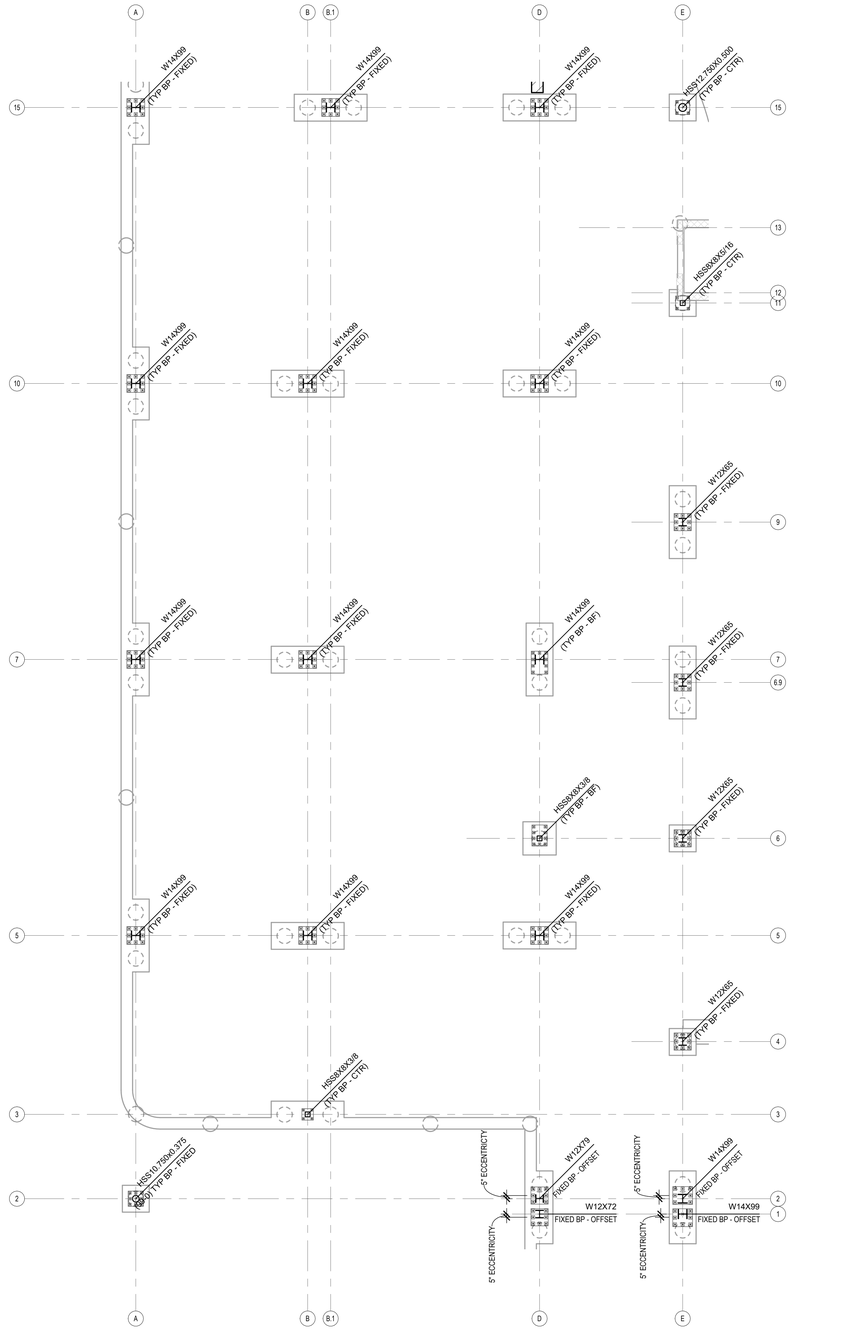
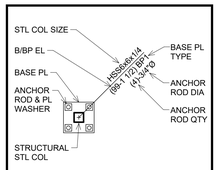
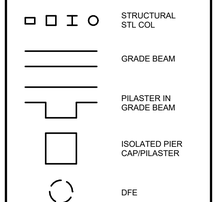


1 ANCHOR ROD PLACEMENT PLAN - AREA E

S2.10 1/8" = 1'-0"





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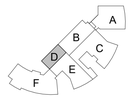
ANCHOR ROD PLACEMENT PLAN NOTES



KEY PLAN - 1ST FLOOR

N.T.S.

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ANCHOR ROD PLACEMENT PLAN - AREA D

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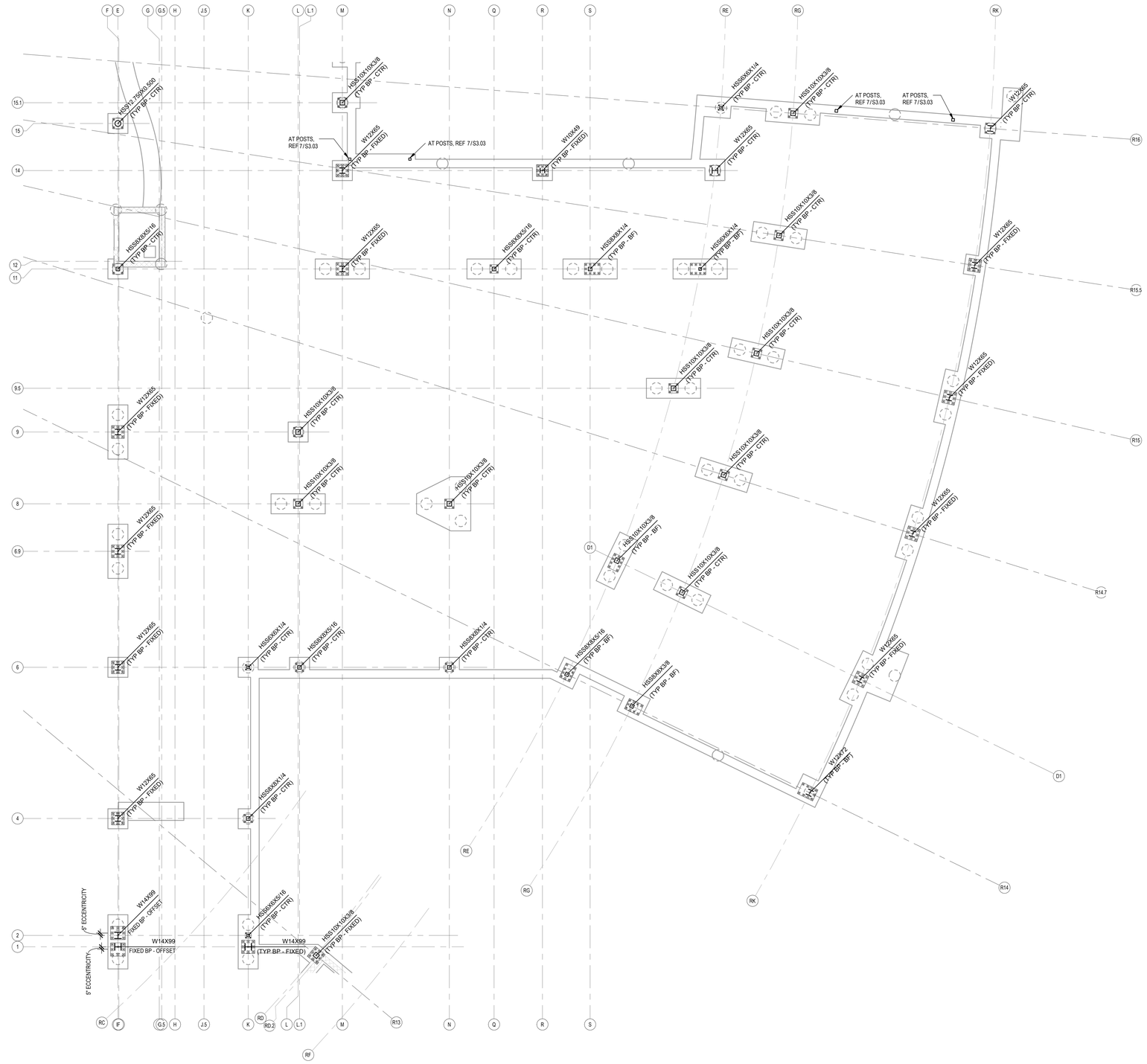
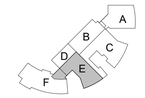
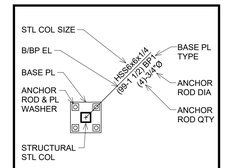


1 ANCHOR ROD PLACEMENT PLAN - AREA D
S2.11 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.



STRUCTURAL STL COL

GRADE BEAM

PILASTER IN GRADE BEAM

ISOLATED PIER CAP/PILASTER

DFE

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ANCHOR ROD PLACEMENT PLAN NOTES

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ANCHOR ROD PLACEMENT PLAN - AREA E

VOLUME 01

Job No.	Sheet No.
03802-04-01	S2.11
Drawn By: IEG	
Date: 07.15.26	

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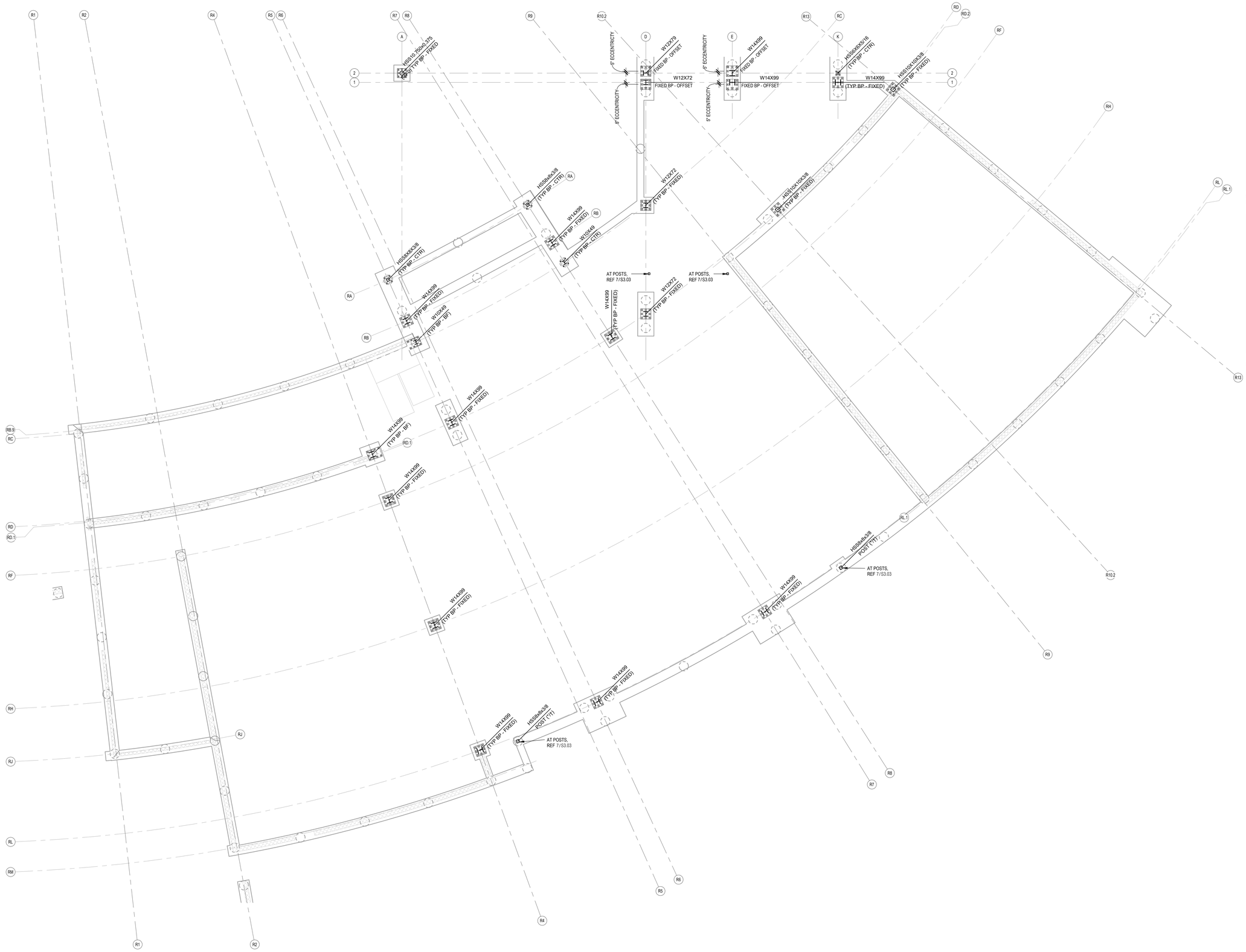
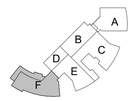
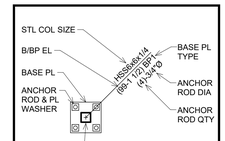


1 ANCHOR ROD PLACEMENT PLAN - AREA F
S2.12 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.



STRUCTURAL STL COL

GRADE BEAM

PILASTER IN GRADE BEAM

ISOLATED PIER CAP/PILASTER

DFE

ANCHOR ROD PLACEMENT PLAN LEGEND

1. THIS ANCHOR ROD PLACEMENT PLAN IS INTENDED TO BE AN AIDE TO THE CONTRACTOR FOR PREPARING THEIR OWN ANCHOR ROD PLACEMENT PLANS, AND IS NOT A SUBSTITUTE FOR PREPARATION OF THOSE SHOP DRAWINGS.
2. B/BP EL = 99'-5 1/2" UNO.
3. FOR BASE PLATE LABELED "TYP BP - CTR" REFERENCE 2/S3.02
4. FOR BASE PLATE LABELED "TYP BP - EDGE" REFERENCE 2/S3.02
5. FOR BASE PLATE LABELED "TYP BP - FIXED" REFERENCE 5/S3.02
6. FOR BASE PLATE LABELED "TYP BP - BF" REFERENCE 3/S3.02

ANCHOR ROD PLACEMENT PLAN NOTES

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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Innovative Engineering Group
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817.410.2808
TBPELS Firm No. F-5923

STATE OF TEXAS
R. CRAIG McKEE
111569
REGISTERED
ENGINEER
7.14.2026

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ANCHOR ROD PLACEMENT PLAN - AREA F

VOLUME 01

Job No.	Sheet No.
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Date: 07.15.26	

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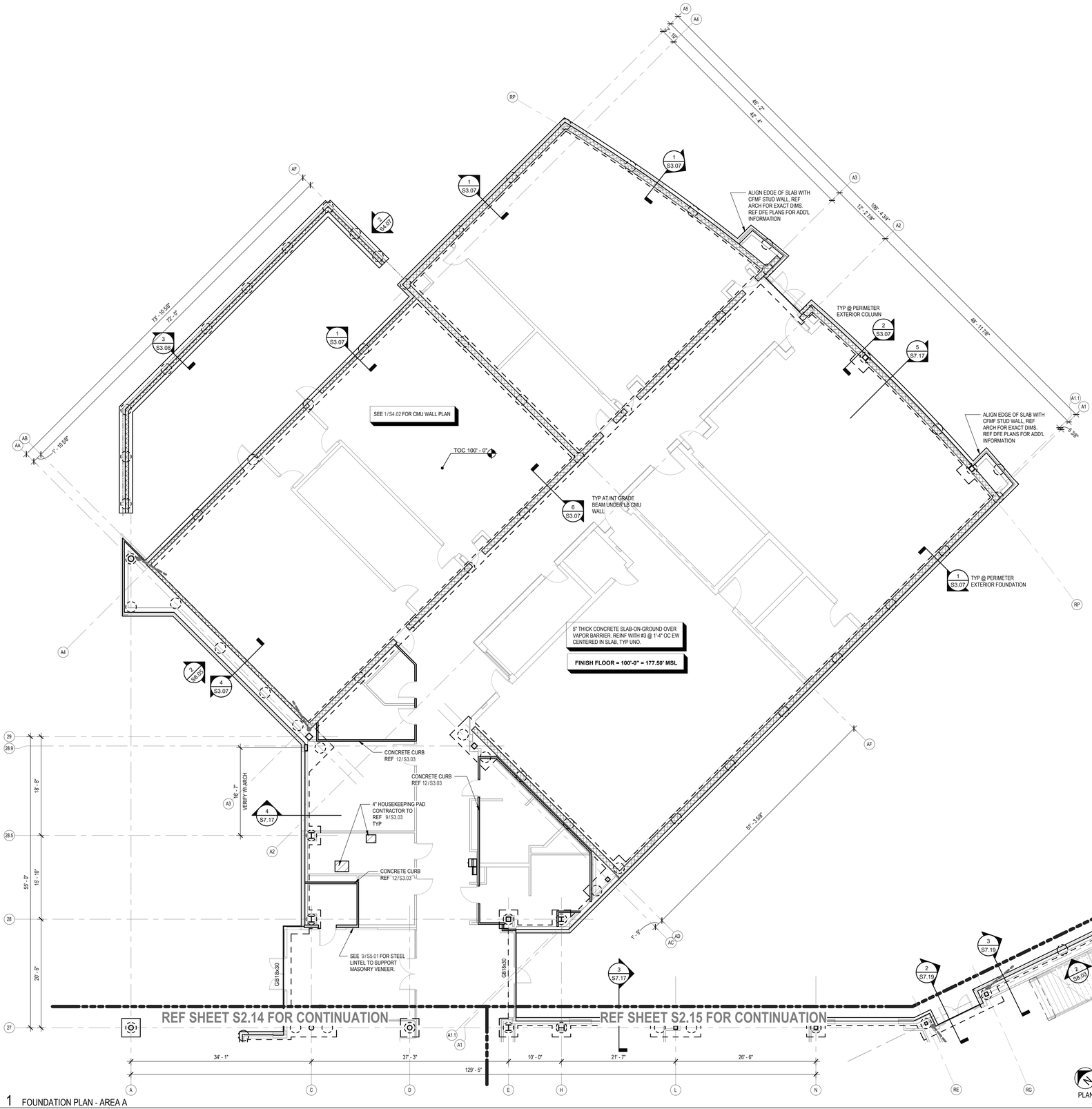

1 FOUNDATION PLAN - AREA A
S2.13 1/8" = 1'-0"

INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
GRADE BEAM
PILE CAP
SLAB STEP
FREEZER SLAB REF ARCH FOR EXTENTS & ADD'L INFO
OVERBUILD SLAB
FD FLOOR DRAIN
FS FLOOR SINK
T/CONC = XX'-XX" T/SLAB ELEVATION
STRUCTURAL STEEL COLUMN
BUILDING LINE
LOW END BRACE FRAME

FOUNDATION LEGEND

1. FOR GENERAL NOTES, SEE DWG. S0.01.
2. FOR FOUNDATION SECTIONS & DETAILS, SEE S3 SERIES DRAWINGS.
3. SEE ARCH DRAWINGS FOR EXACT LOCATION OF SLAB DEPRESSIONS, OPENINGS AND ENTRY AREAS.
4. SLOPE TOP AND BOTTOM OF STRUCTURAL SLAB AT ALL FLOOR DRAINS, MAINTAINING THE MINIMUM OVERALL CONCRETE SLAB THICKNESS AS SPECIFIED.
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FOUNDATION PLAN NOTES

KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

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FOUNDATION PLAN - AREA A

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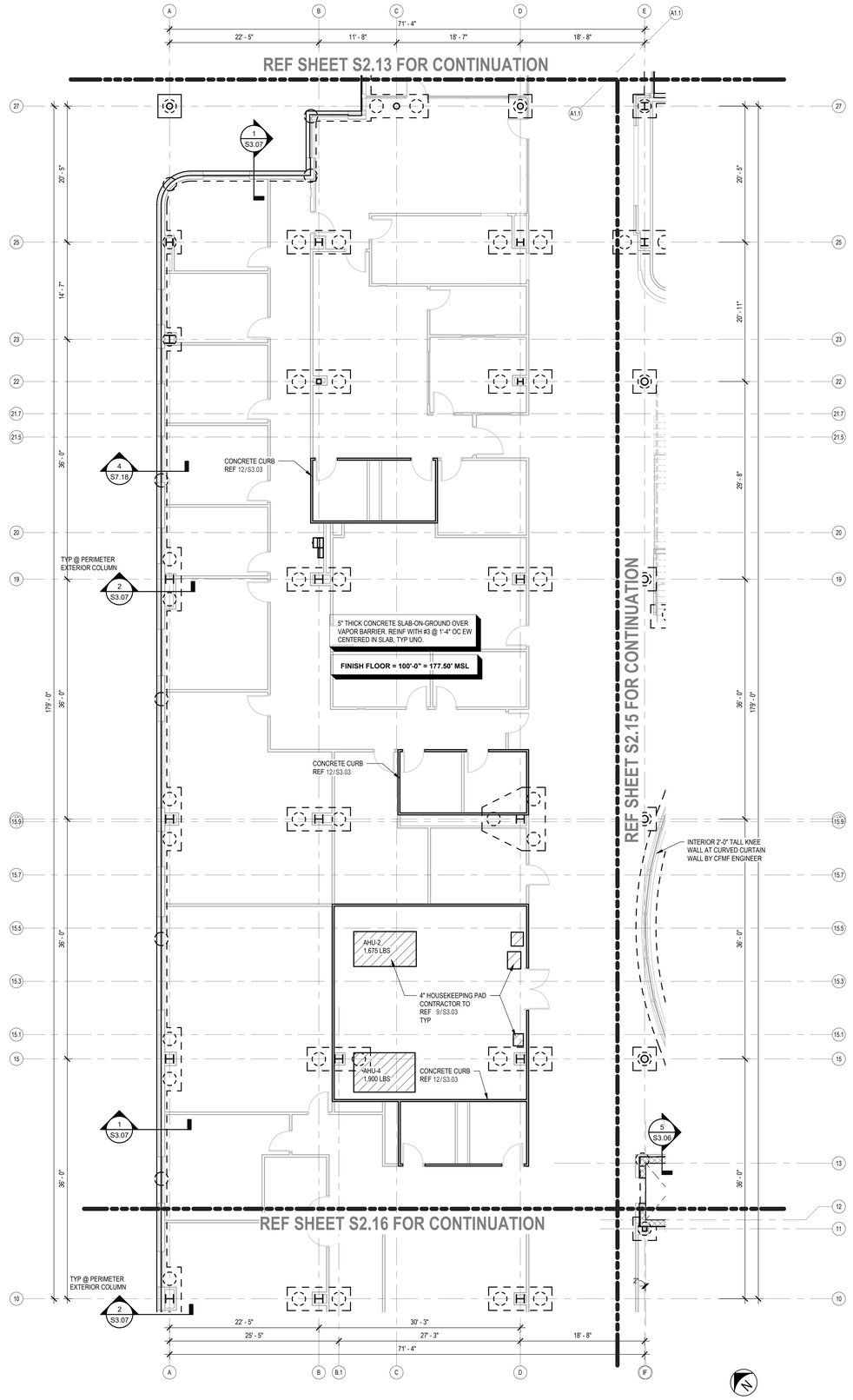

1 FOUNDATION PLAN - AREA B
S2.14 1/8" = 1'-0"

PLAN

FOUNDATION LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- GRADE BEAM
- PILE CAP
- SLAB STEP
- FREEZER SLAB REF ARCH FOR EXTENTS & ADDL INFO
- OVERBUILD SLAB
- FD FLOOR DRAIN
- FS FLOOR SINK
- T/CONC = XX'-XX" T/SLAB ELEVATION
- STRUCTURAL STEEL COLUMN
- BUILDING LINE
- LOW END BRACE FRAME

FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES, SEE DWG. S0.01.
2. FOR FOUNDATION SECTIONS & DETAILS, SEE S3 SERIES DRAWINGS.
3. SEE *ARCH* DRAWINGS FOR EXACT LOCATION OF SLAB DEPRESSIONS, OPENINGS AND ENTRY AREAS.
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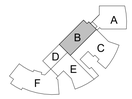

KEY PLAN - 1ST FLOOR
N.T.S.

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FOUNDATION PLAN - AREA B

VOLUME 01

Job No.	Sheet No.
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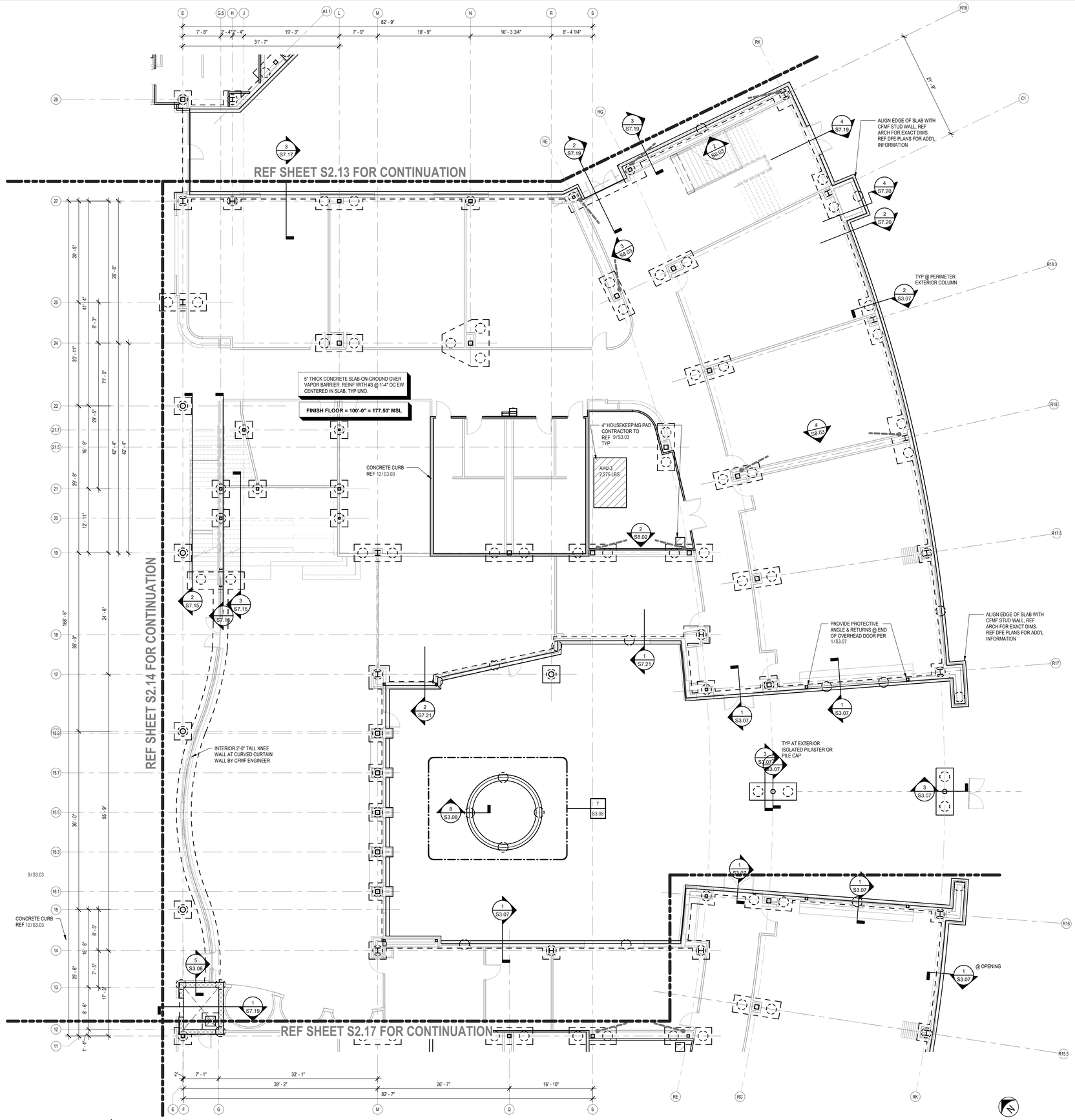

1 FOUNDATION PLAN - AREA C
S2.15 1/8" = 1'-0"

PLAN

FOUNDATION LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- GRADE BEAM
- PILE CAP
- SLAB STEP
- FREEZER SLAB REF ARCH FOR EXTENTS & ADDL INFO
- OVERBUILD SLAB
- FD FLOOR DRAIN
- FS FLOOR SINK
- T/CONC = XX'-XX" T/SLAB ELEVATION
- STRUCTURAL STEEL COLUMN
- BUILDING LINE
- LOW END BRACE FRAME

FOUNDATION PLAN NOTES

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KEY PLAN - 1ST FLOOR
N.T.S.

FOUNDATION PLAN - AREA C	
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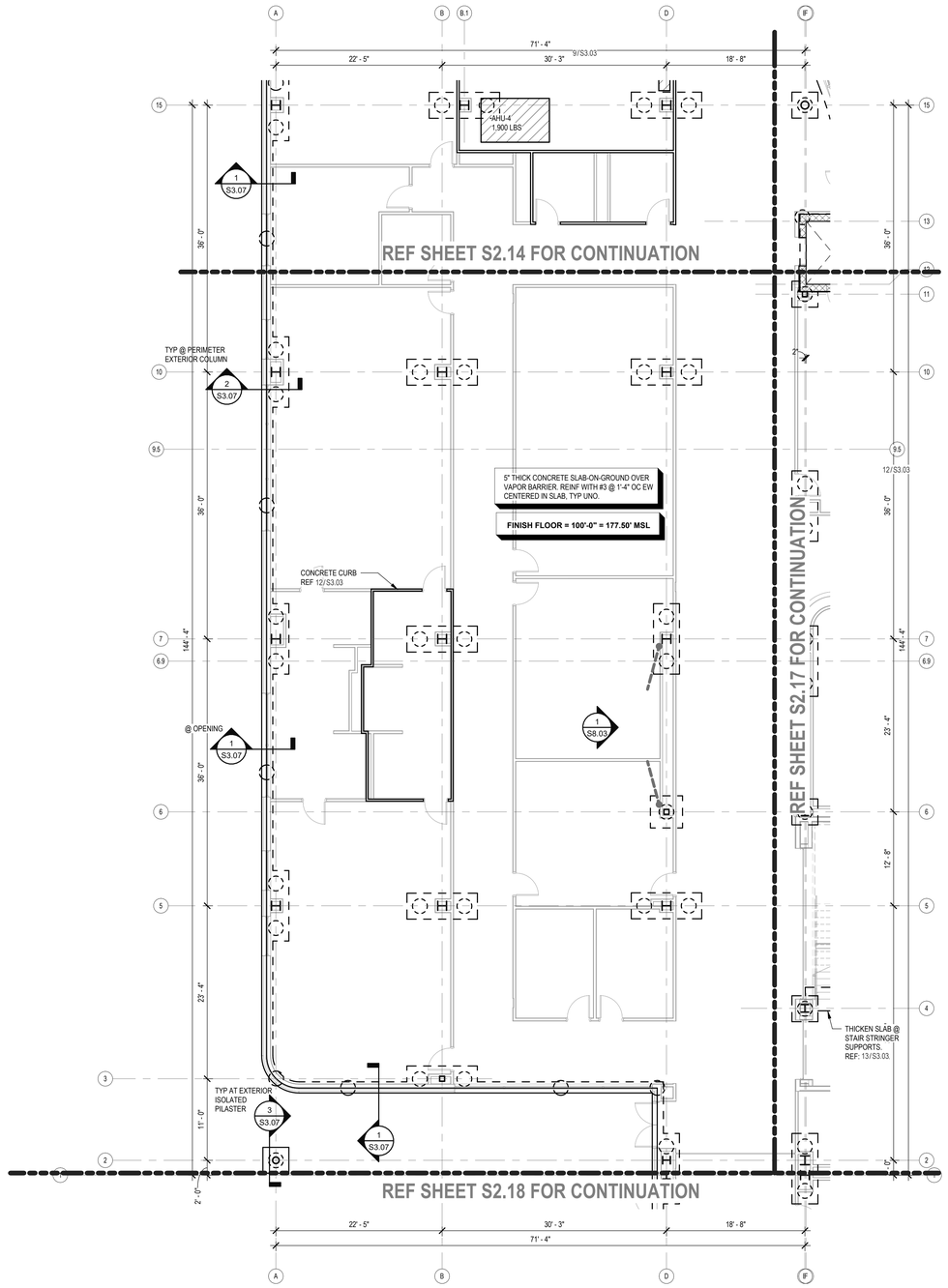

1 FOUNDATION PLAN - AREA D
S2.16 1/8" = 1'-0"

PLAN

INT NON LOAD-BEARING STUD WALL

INT NON LOAD-BEARING CMU OR STUD WALL

LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU

BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS

GRADE BEAM

PILE CAP

SLAB STEP

FREEZER SLAB
REF ARCH FOR EXTENTS & ADDL INFO

OVERBUILD SLAB

FD FLOOR DRAIN

FS FLOOR SINK

T/CONC = XX'-XX" T/SLAB ELEVATION

STRUCTURAL STEEL COLUMN

BUILDING LINE

LOW END BRACE FRAME

FOUNDATION LEGEND

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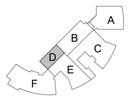
KEY PLAN - 1ST FLOOR
N.T.S.



FOUNDATION PLAN - AREA D

VOLUME 01

Job No. 0/2602-04-01	Sheet No. S2.16
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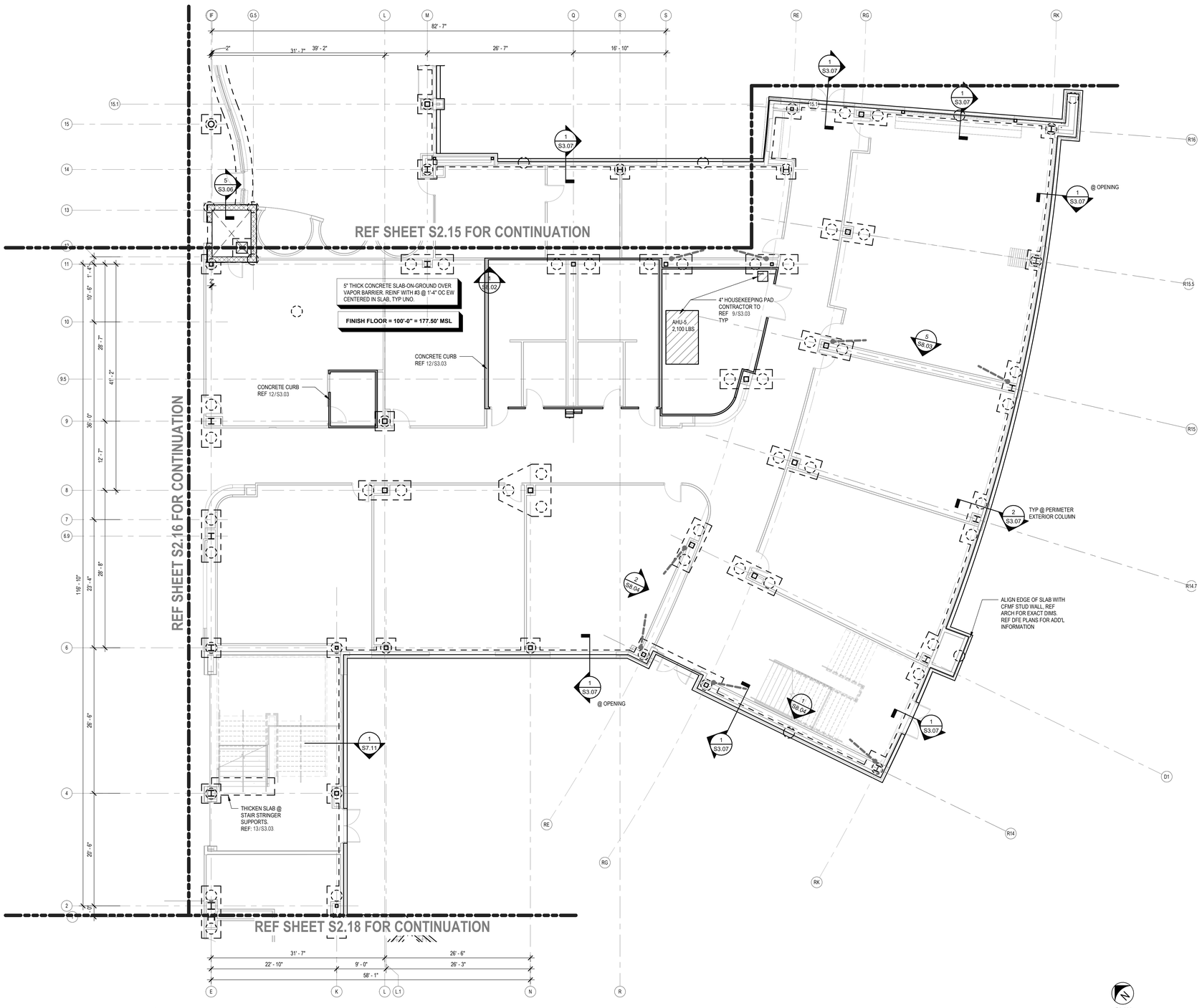
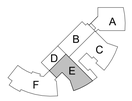


1 FOUNDATION PLAN - AREA E
S2.17 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

INT NON LOAD-BEARING STUD WALL
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FOUNDATION LEGEND

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FOUNDATION PLAN - AREA E

VOLUME 01

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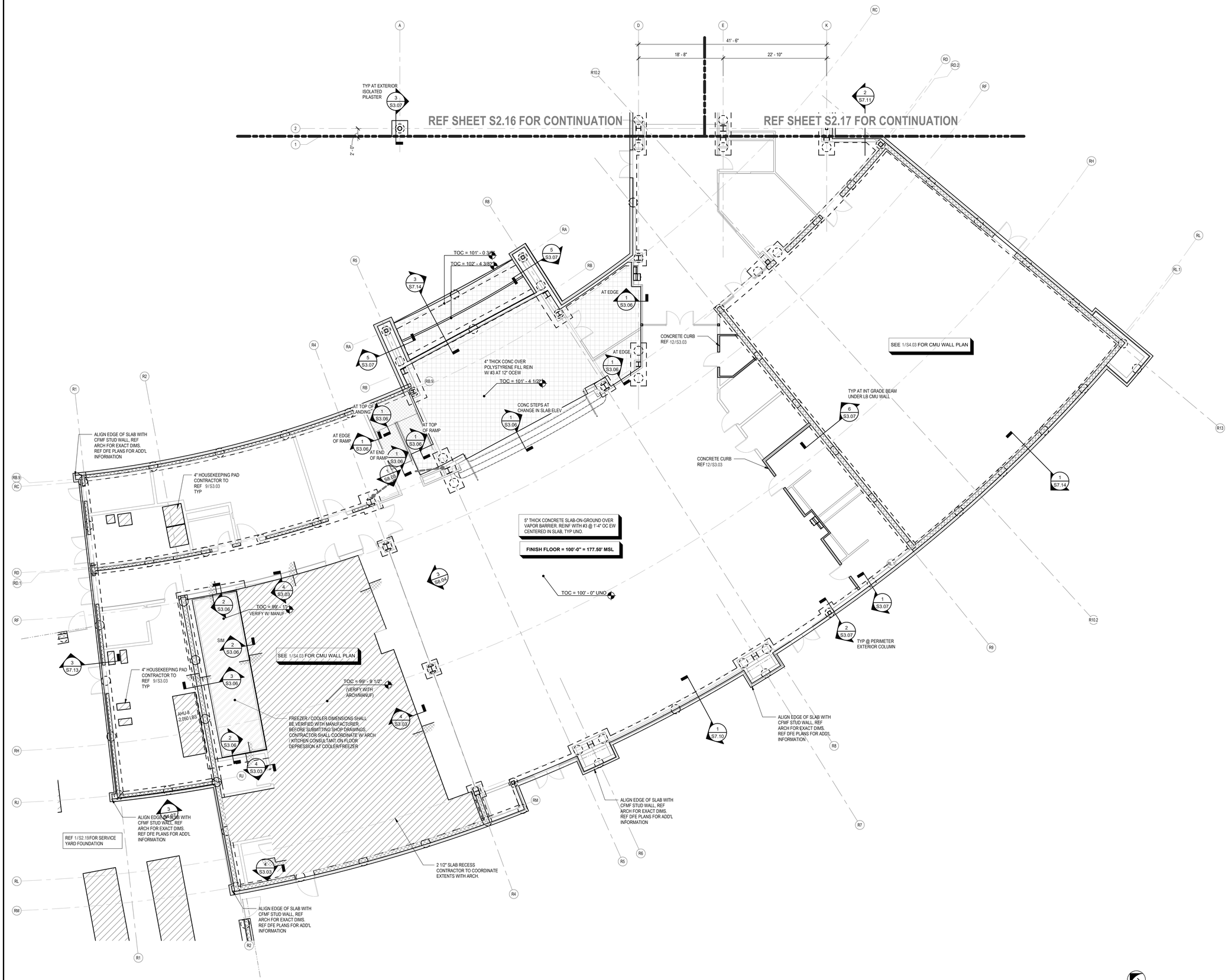

1 FOUNDATION PLAN - AREA F
S2.18 1/8" = 1'-0"

FOUNDATION LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- GRADE BEAM
- PILE CAP
- SLAB STEP
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KEY PLAN - 1ST FLOOR
N.T.S.

PLAN

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FOUNDATION PLAN - AREA F

VOLUME 01

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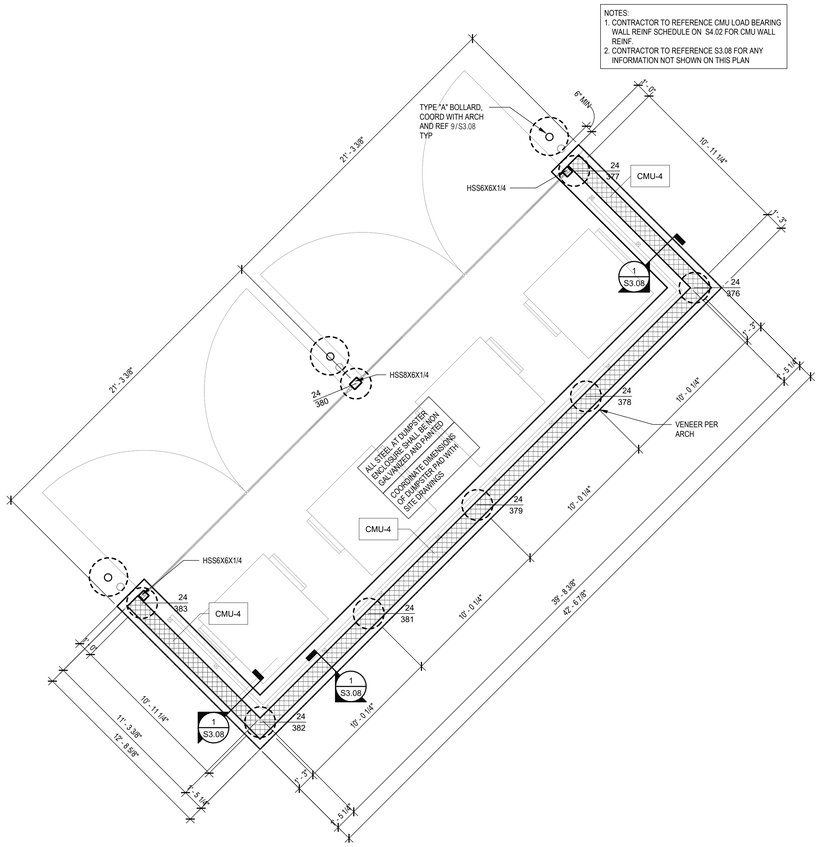
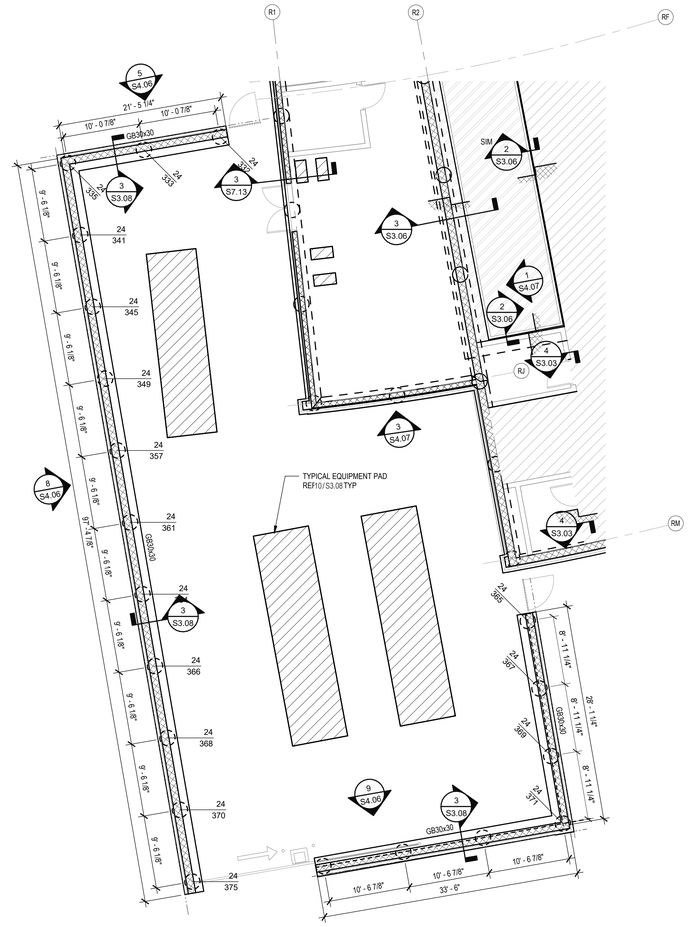


2 FOUNDATION PLAN - DUMPSTER
S2.19 1/4" = 1'-0"

PLAN



1 FOUNDATION PLAN - SERVICE YARD
S2.19 1/8" = 1'-0"

PLAN

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Date
Revision /

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Project:

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7.14.2026

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FOUNDATION PLAN - SITE

VOLUME 01

Job No.	Sheet No.
00802-04-01	S2.19
Drawn By: IEG	
Date: 07.15.26	

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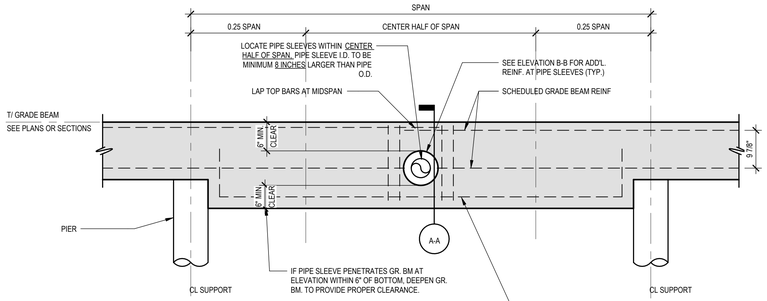
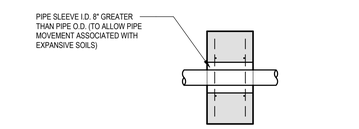


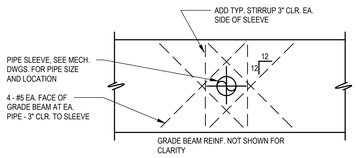
NOTES:
1. VOID BOXES AND TYPICAL GRADE BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.
2. SEE TYPICAL GRADE BEAM ELEVATIONS WITH PIPE SLEEVES FOR OTHER CONDITIONS.
3. COORDINATE PIPE SLEEVES WITH OTHER TRADES BEFORE BEGINNING CONSTRUCTION.
4. PROVIDE 2'-6" MIN. CLR. BETWEEN PIPE SLEEVES.
5. SEE SECTIONS & DETAILS FOR ADD'L. REINFORCING.
6. VERTICAL OR LONGITUDINAL PIPE SLEEVES IN GRADE BEAMS ARE NOT ALLOWED.
7. PIPE SLEEVES SHALL BE FORMED WITH SCHEDULE 40 PIPE, PVC OR STEEL.
8. LOCATE PIPE SLEEVES WITHIN CENTER HALF OF SPAN

GRADE BEAM WITH HORIZONTAL PIPE SLEEVES PERPENDICULAR TO THE SPAN

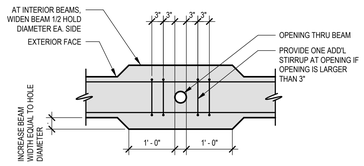
6 TYPICAL GRADE BEAM WITH MID-DEPTH PIPE SLEEVES
S3.01 3/4" = 1'-0"



SECTION A-A

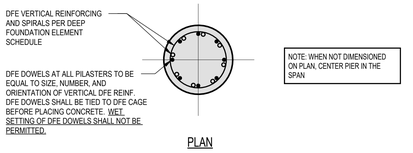


ELEVATION B-B

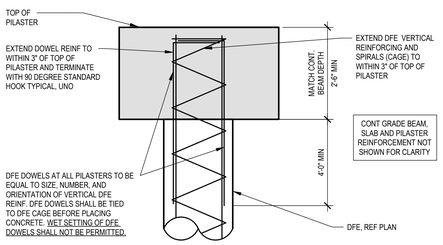


PLAN VIEW

VERTICAL PENETRATION THROUGH GRADE BEAM

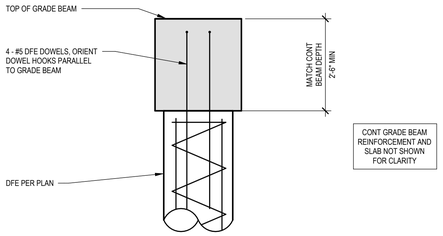


PLAN

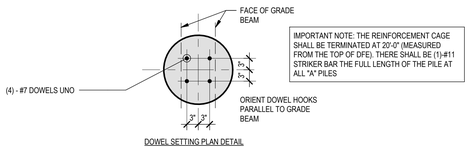


SECTION

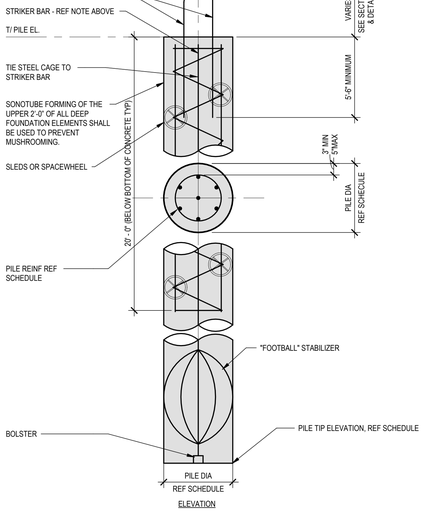
TYPICAL DFE TO PILASTER CONNECTION DETAIL



TYPICAL DFE TO GRADE BEAM DETAIL



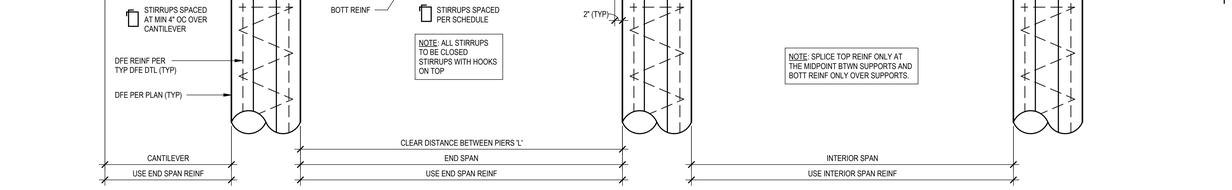
DOWEL SETTING PLAN DETAIL



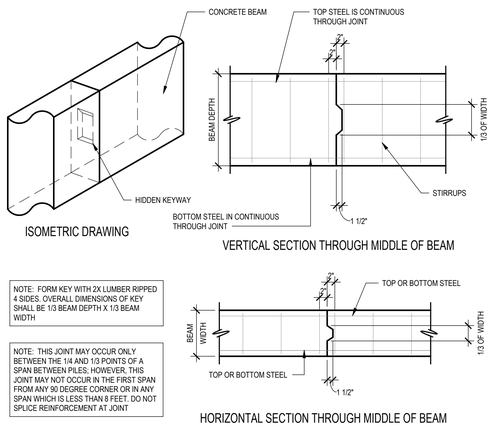
ELEVATION

AUGERED CAST-IN-PLACE (ACIP) PILE NOTES:

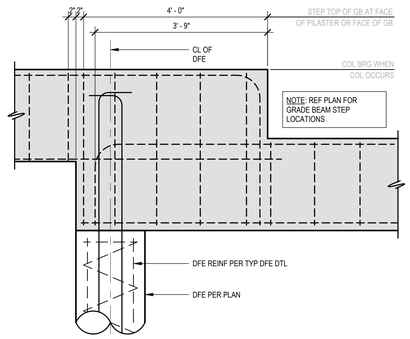
1. ACIP PILE DESIGN IS BASED ON AN ESTIMATED AUGERED CAST IN PLACE PILE DESIGN CAPACITY OF 108 KIPS FOR TYPE '24' PILES IN COMPRESSION AND DESIGN CAPACITY OF 83 KIPS FOR TYPE '24' PILES IN TENSION BASED ON THE DESIGN CRITERIA PROVIDED IN GEOTECHNICAL REPORT.
2. THIS ESTIMATED PILE CAPACITY SHALL BE VERIFIED BY ON-SITE PILE LOAD CAPACITY TESTS AS IDENTIFIED IN THE SPECIFICATIONS. REFER TO S1.05 FOR TEST PILE LOCATION. THE GEOTECHNICAL ENGINEER SHALL GIVE RECOMMENDATIONS FOR THE ALLOWABLE PILE LOAD CAPACITY AFTER THE LOAD TESTS. IF THIS LOAD CAPACITY IS DIFFERENT THAN THE ESTIMATED CAPACITY GIVEN ABOVE, THE STRUCTURAL ENGINEER MAY REVISE THE FOUNDATION DESIGN BASED ON THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. PROVIDE ADD/DEDUCT PRICES PER THE SPECIFICATIONS FOR CHANGES IN THE PILES.
   A. THE SITA SHALL OBSERVE INSTALLATION OF THE TEST PILE TO ESTABLISH THE NUMBER OF PUMP STROKES REQUIRED TO MAINTAIN THE MINIMUM 5-FOOT GROUT HEAD.
3. PRODUCTION ACIP PILE INSTALLATION SHALL BE CONTINUOUSLY OBSERVED BY A QUALIFIED REPRESENTATIVE OF THE SITA THAT IS EXPERIENCED IN ACIP PILE CONSTRUCTION. THE INSTALLATION SEQUENCE AND CONSTRUCTION TECHNIQUES SHALL BE PERIODICALLY EVALUATED BY THE SITA TO VERIFY THAT THE PRODUCTION PILES ARE BEING INSTALLED IN GENERAL ACCORDANCE WITH THE PROJECT REQUIREMENTS.
4. CALIBRATE THE GROUT PUMP AT THE BEGINNING OF THE PROJECT AND AFTER ANY SIGNIFICANT MAINTENANCE OR REPAIRS IN ACCORDANCE WITH THE DEEP FOUNDATIONS INSTITUTE (DFI) INSPECTOR'S GUIDE.
5. MEASURE GROUT CONSISTENCY FREQUENTLY DURING INSTALLATION. MAINTAIN A GROUT FLOW OF 10 TO 25 SECONDS AS MEASURED USING A STANDARD 3/4-INCH FLOW CONE.
6. MONITOR GROUT PRESSURE DURING INSTALLATION AND MAINTAIN PRESSURES BETWEEN 350 PSI AND 500 PSI. MAINTAIN A POSITIVE GROUT HEAD OF NOT LESS THAN 5 FEET PRIOR TO AND DURING AUGER WITHDRAWAL. CONTINUE GROUTING UNTIL SOIL-CONTAMINATED GROUT HAS BEEN COMPLETELY DISPLACED AND UNCONTAMINATED GROUT IS RETURNING FROM THE TOP OF THE EXCAVATION.
7. THE TOTAL GROUT VOLUME FOR EACH PILE SHALL NOT BE LESS THAN 115 PERCENT OF THE THEORETICAL PILE VOLUME. RECORD THE INCREMENTAL GROUT VOLUME FOR EACH 5-FOOT INCREMENT OF PILE INSTALLATION.
8. SUBMIT PILE INSTALLATION RECORDS INCLUDING DEPTH, GROUT VOLUME, PRESSURE, GROUT FACTOR, AND OBSERVATION REPORTS TO THE GEOTECHNICAL ENGINEER AND SEOR.
9. PROVIDE SONOTUBE FORMING FOR THE UPPER 2'-0" OF ALL PILES TO PREVENT MUSHROOMING AT THE TOP OF THE PILE.
10. PILE STEEL SHALL BE DELIVERED TO THE JOB SITE IN 40' OR 60' LENGTHS AND THE PIER CAGE BUILT TO THOSE LENGTHS. AFTER EACH SHAFT IS DRILLED, THE STEEL FOR THAT SHAFT SHALL BE CUT FROM THE STANDARD CAGE TO THE EXACT REQUIRED LENGTH. NO SPLICING OF THE STEEL SHALL BE ALLOWED.
11. NOTE TO BUILDING OFFICIAL: IT IS THE SEOR INTERPRETATION OF CODE REQUIREMENTS THAT ACI 318 PROVISIONS FOR REINFORCEMENT OF CONCRETE COLUMNS DO NOT APPLY TO THE DEEP FOUNDATION ELEMENTS (DRILLED PIERS AND/OR ACIP PILES) BECAUSE THEY ARE LATERALLY BRACED BY THE SOIL AGAINST WHICH THEY ARE CAST. WHILE SOME SHRINKAGE WITHIN THE ACTIVE DEPTH OF EXPENSIVE SOIL NEAR THE TOP OF THE DFE CANNOT BE CONSIDERED TO LATERALLY BRACE THE ELEMENT, THE NOTION IS NEGLECTED DUE TO THE VERY LIMITED LENGTH OF SHRINKAGE RELATIVE TO THE TYPICAL ELEMENT CROSS-SECTION. PLEASE NOTIFY THE SEOR BEFORE ISSUING A BUILDING PERMIT IF THIS INTERPRETATION IS NOT ACCEPTABLE.
12. TOP OF DFE ELEVATION SHALL EQUAL BOTTOM OF GRADE BEAM, PILASTER, OR SLAB ELEVATIONS AS REQUIRED. TOP OF DFE ELEVATIONS ARE DELIBERATELY NOT PROVIDED ON THE FOUNDATION PLANS. TOP OF DFE ELEVATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR BASED ON THE GEOMETRIC GRADE BEAM REQUIREMENTS DEFINED BY THE GRADE BEAM SCHEDULE AND BY TAKING INTO CONSIDERATION THE TOP OF SLAB ELEVATIONS DEFINED ON THE STRUCTURAL AND CIVIL DRAWINGS AND FINAL GRADE ELEVATIONS DEFINED ON THE CIVIL DRAWINGS. THE TOP OF DFE ELEVATIONS SHALL ALLOW FOR THE BOTTOM OF ALL GRADE BEAMS TO EXTEND A MINIMUM OF 12" BELOW ALL EXTERIOR FINAL GRADE. CONTRACTOR TO COORDINATE GRADE BEAM DEPTHS (AFTER ALL ADDENDUM) AND INCREASE THE DEPTH OF THE GRADE BEAMS AS REQUIRED TO MEET THIS MINIMUM REQUIREMENT.



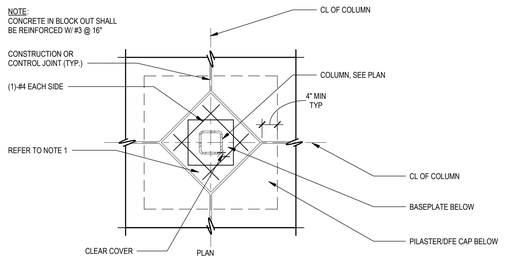
5 TYPICAL CONCRETE BEAM AND WALL FOOTING REINFORCEMENT DETAIL
S3.01 3/4" = 1'-0"



4 BEAM CONSTRUCTION JOINT DETAIL
S3.01 3/4" = 1'-0"



3 TYPICAL STEPPED GRADE BEAM
S3.01 3/4" = 1'-0"



NOTES :
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCK OUT FOR COLUMNS. INCREASE COLUMN BLOCK-OUT DIMENSIONS AS REQUIRED TO ACCOMMODATE GUSSET PLATES AT BRACE FRAMES.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN.

PLAN VIEW

2 TYPICAL DETAIL - BLOCKOUT AT COLUMN (SOG)
S3.01 3/4" = 1'-0"

PILE SCHEDULE

MARK (REFER TO PLAN)	SHAFT DIAMETER (INCHES)	REINFORCING		TIP ELEVATION (MSL, FT)	CAPACITY
		VERTICAL BARS	SMOOTH SPIRALS		
24	24"	(8)-#7	3/8" AT 12" PITCH	144' - 0"	108
TEST PILE	24"	(8)-#7	3/8" AT 12" PITCH	144' - 0"	197

1 TYPICAL DEEP FOUNDATION ELEMENT (ACIP PILE)
S3.01 3/4" = 1'-0"

Revision / Date

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TYPICAL FOUNDATION DETAILS

VOLUME 01

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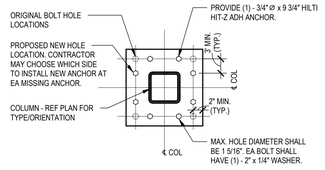
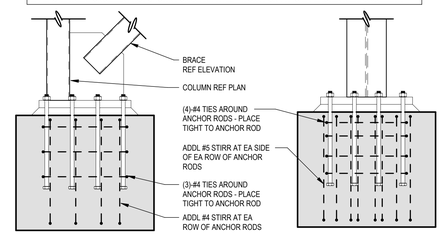


NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACED FRAMES OR MOMENT FRAMES. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA LOCATION W/ DAMAGED ANCHOR BOLTS.
2. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR ADH ANCHOR.
3. HIT-Z-R ANCHORS SHALL BE USED IN LIEU OF HIT-Z ANCHORS AT COLUMNS EXPOSED TO WEATHER.

9 TYPICAL DETAIL REPAIR AT GRAVITY BASE PLATE HSS
S3.02 3/4" = 1'-0"

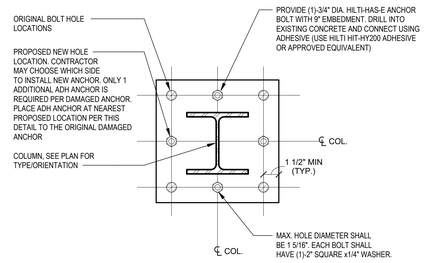
NOTES:
1. MOMENT FRAMES ARE INDICATED ON PLAN BY BEAMS ATTACHING TO COLUMNS WITH MOMENT CONNECTIONS (INDICATED BY ▷|— OR —|◁ ON PLAN).
2. PILASTER REINFORCEMENT NOT SHOWN FOR CLARITY. REF 1/S3.04 FOR TYPICAL PILASTER REINFORCEMENT.



TYPICAL ADDL REINF AT BRACE FRAMES

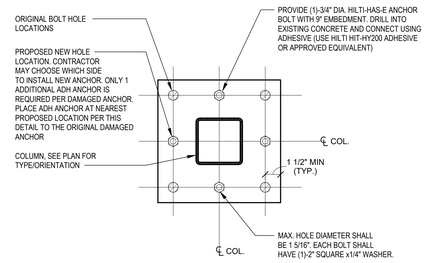
TYPICAL ADDL REINF AT MOMENT FRAMES

8 TYPICAL ADDITIONAL REINFORCEMENT AT BRACED & MOMENT FRAMES
S3.02 3/4" = 1'-0"



NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES.
2. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
3. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR ADHESIVE ANCHOR.

TYPICAL DETAIL
REPAIR AT GRAVITY BASE PLATE



NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES.
2. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
3. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR ADHESIVE ANCHOR.

TYPICAL DETAIL
REPAIR AT GRAVITY BASE PLATE

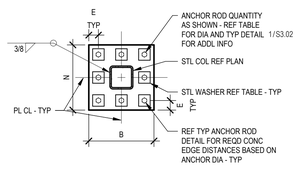
7 TYPICAL ANCHOR BOLT REPAIR DETAIL AT GRAVITY ONLY COLUMNS
S3.02 1 1/2" = 1'-0"

NOTES:
1. FIXED BASE PLATES SHALL BE USED AT MOMENT FRAMES INDICATED BY BEAMS ATTACHING TO COLUMNS WITH MOMENT CONNECTIONS (INDICATED BY ▷|— OR —|◁ OR ○|◁ ON PLAN) AS WELL AS ANY CANTILEVERED COLUMNS.
2. FIXED BASE PLATES SHALL BE A992 GRADE 50.

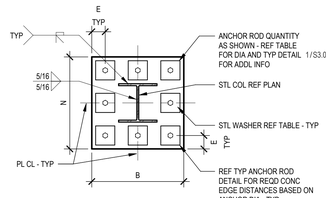
HSS COLUMN FIXED BASE PLATE SCHEDULE				
COL SIZE	"B" (IN)	"N" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)
≤ HSS6x6	17	17	2	1
HSS7x7	20	20		1 1/4
HSS8x8				
HSS9x9	24	24	2 1/2	1 1/2
HSS10x10				
HSS10.75				
HSS12x12	28	28		1 3/4
HSS12.75				

WIDE FLANGE COLUMN FIXED BASE PLATE SCHEDULE				
COL SIZE	"B" (IN)	"N" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)
W10	25	25	2 1/2	2
W12	27	27		
W14	28	28		

WIDE FLANGE COLUMN OFFSET FIXED BASE PLATE SCHEDULE				
COL SIZE	"B" (IN)	"N" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)
SBP 1	27	27	2 1/2	2
SBP 2	31	31		



GENERAL INFORMATION



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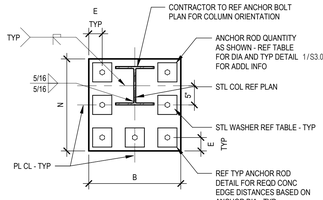


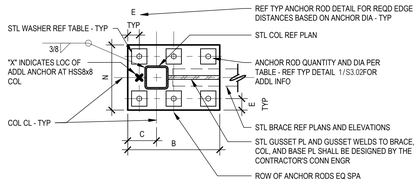
GENERAL INFORMATION

5 TYPICAL FIXED BASE PLATE DETAIL
S3.02 3/4" = 1'-0"

NOTES:
1. BRACED FRAME BASE PLATE SHALL OCCUR AT ALL LOCATIONS WHERE DIAGONAL BRACING OCCURS BETWEEN STEEL COLUMNS AS INDICATED IN PLAN AND/OR IN FRAMING ELEVATIONS.
2. BRACED FRAME BASE PLATES SHALL BE A992 GRADE 50.

HSS COLUMN BRACED FRAME BASE PLATE SCHEDULE						
COL SIZE	"B" (IN)	"N" (IN)	"C" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)	# OF EQ SPA ANCHOR RODS PER ROW
≤ HSS6x6	24	18	7 1/2	2	1 1/2	3
≥ HSS8x8	33	24	12	2 1/2		4
HSS12.75	36	26	13	2 1/2		AS SHOWN

WIDE FLANGE COLUMN BRACED FRAME BASE PLATE SCHEDULE						
COL SIZE	"B" (IN)	"N" (IN)	"C" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)	# OF ANCHOR RODS
W10	33	24	12	2 1/2	1 1/2	AS SHOWN
W12	36	26	13			



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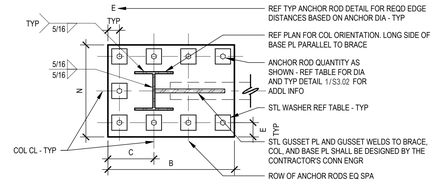
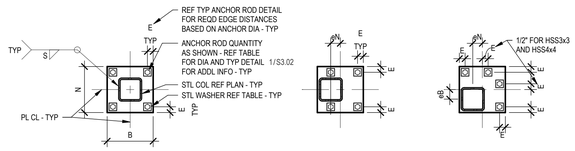


GENERAL INFORMATION

3 TYPICAL BRACED FRAME BASE PLATE DETAIL
S3.02 3/4" = 1'-0"

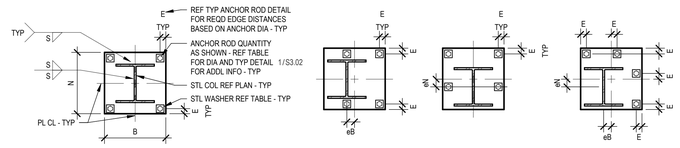
NOTES:
1. THIS DETAIL SHALL APPLY AT ALL HSS AND WIDE FLANGE COLUMNS (UNO) THAT ARE NOT PART OF A MOMENT FRAME, BRACED FRAME, CANTILEVER COLUMN, OR ANY OTHER SPECIAL CONDITION INDICATED ON PLAN OR DETAILED ELSEWHERE IN THE STRUCTURAL DRAWINGS.
2. TYPICAL BASE PLATES SHALL BE A992 GRADE 50.

HSS COLUMN BASE PLATE SCHEDULE							
COL SIZE	"B" (IN)	"N" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)	COL FILLET WELD SIZE "S" (IN)	"eN" AT EDGE & CORNER COL (IN)	"eB" AT EDGE & CORNER COL (IN)
HSS3x3	9	9	3/4	3/4	3/16	2	2
HSS4x4	10	10					
HSS5x5	11	11	1		1/4	4	4
HSS6x6	12	12					
HSS7x7	13	13					
HSS8x8	18	18	1 1/4	1			
HSS9x9	19	19					
HSS10x10	20	20	1 1/2	1 1/4	5/16		
HSS10.75	20	20					
HSS12x12	22	22					
HSS12.75	22	22					



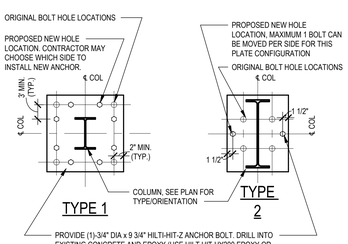
COLUMN CENTERED COLUMN AT EDGE COLUMN AT CORNER

WIDE FLANGE COLUMN BASE PLATE SCHEDULE							
COL SIZE	"B" (IN)	"N" (IN)	PLATE THICKNESS (IN)	ANCHOR ROD DIA (IN)	COL FILLET WELD SIZE "S" (IN)	"eN" AT EDGE & CORNER COL (IN)	"eB" AT EDGE & CORNER COL (IN)
W10	17	17	1 1/2	1	5/16	4	4
W12	22	22					
W14	24	24	2	1 1/4			



COLUMN CENTERED COLUMN AT EDGE COLUMN AT CORNER

2 TYPICAL BASE PLATE DETAILS
S3.02 3/4" = 1'-0"

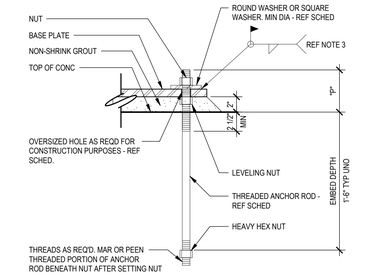


NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
2. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR EXPOXY ANCHOR.
3. HIT-Z-R ANCHORS SHALL BE USED IN LIEU OF HIT-Z ANCHORS AT COLUMNS EXPOSED TO WEATHER.

4 TYPICAL DETAIL REPAIR AT GRAVITY BASE PLATE WF
S3.02 3/4" = 1'-0"

NOMINAL ANCHOR BOLT DIA (IN)	PROJECTION "P" (IN)	BOLT STL GRADE	ANCHOR HOLE DIAMETER (IN)	WASHER SIZE (IN)	WASHER THICKNESS (IN)	ANCHOR CENTER LINE DISTANCE, "E" (IN)
3/4	5 1/2	F1554 GRADE 36	1 5/16	2	1/4	1 1/2
1	5 3/4	F1554 GRADE 55	1 7/8	3	3/8	2 1/2
1 1/4	7 1/4		2 1/8	3 1/2	1/2	2 1/2
1 1/2			2 3/8	4	1/2	3
1 3/4			2 7/8	4 1/2	3/4	3 1/2
2			3 1/4	5	3/4	3 1/2

NOTES:
1. ALL BASE PLATE NUTS SHALL BE HEAVY HEX TYPE W/ THE EXCEPTION OF THE LEVELING NUTS. LEVELING NUTS MAY BE GENERAL APPLICATION NUTS AT THE CONTRACTOR'S OPTION.
2. PLATE WASHERS SHALL BE ASTM A572 GRADE 50.
3. PLATE WASHERS SHALL BE WELDED TO BASE PLATE AT BRACED AND MOMENT FRAMES OR WHERE NOTED IN THE TYPICAL BASE PLATE DETAIL OR ON PLAN. FILLET WELD SIZE SHALL BE 1/4" MIN (UNO).
4. ANCHOR RODS SHALL BE PROVIDED WITH SUFFICIENT THREADS TO ALLOW INSTALLATION OF THE BASE PLATE AND FULL NUT ENGAGEMENT. IT IS STRUCTURALLY ACCEPTABLE TO CUT THE EXCESS THREAD EXTENSION ABOVE THE TOP OF THE NUT. CUT SHALL NOT BE LOWER THAN THE TOP OF THE NUT, AND THE ANCHOR ROD THREADS SHALL REMAIN FULLY ENGAGED WITH THE NUT.



1 TYPICAL ANCHOR ROD DETAIL
S3.02 1 1/2" = 1'-0"

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TYPICAL FOUNDATION DETAILS

VOLUME 01

Job No. 00802-04-01
Sheet No. S3.02
Drawn By: IEG
Date: 07.15.26

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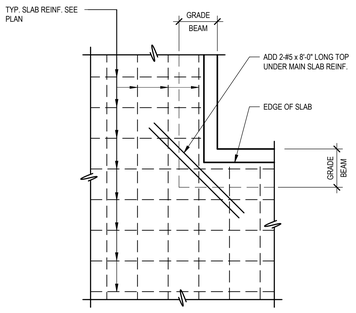
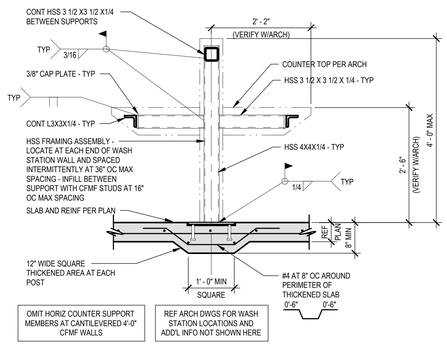
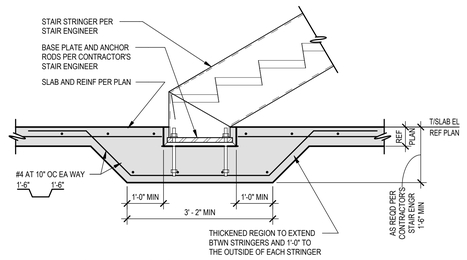


TYPICAL INSIDE SLAB CORNER

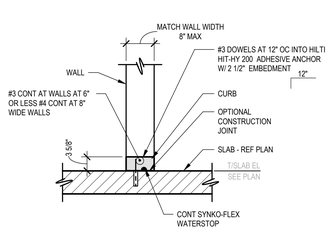
15 TYPICAL DETAIL
S3.03 3/4" = 1'-0"



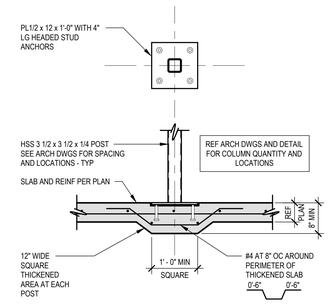
14 SUPPORT FRAMING AT CANTILEVERED CFMF WALLS AT WASH STATIONS
S3.03 3/4" = 1'-0"



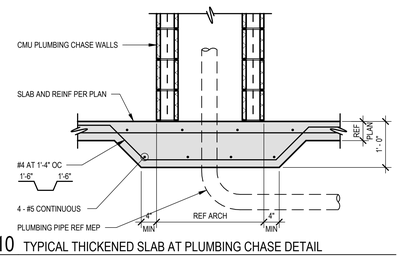
13 TYPICAL STAIR STRINGER TO FOUNDATION CONNECTION
S3.03 3/4" = 1'-0"



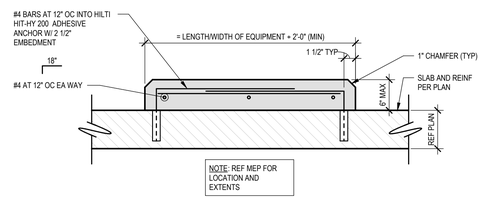
12 TYPICAL CONCRETE CURB
S3.03 3/4" = 1'-0"



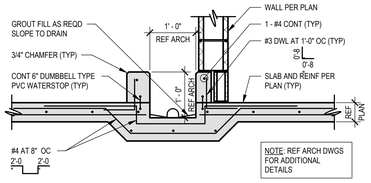
11 TYPICAL COMPUTER LAB TABLE BASE CONN DETAIL
S3.03 3/4" = 1'-0"



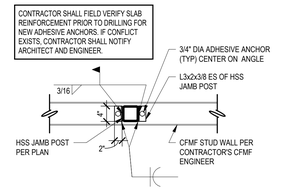
10 TYPICAL THICKENED SLAB AT PLUMBING CHASE DETAIL
S3.03 3/4" = 1'-0"



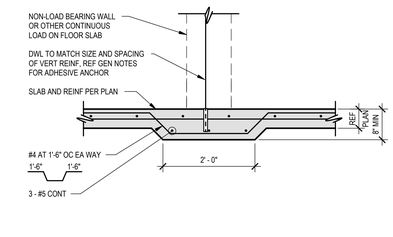
9 TYPICAL OVERBUILT PAD DETAIL
S3.03 1 1/2" = 1'-0"



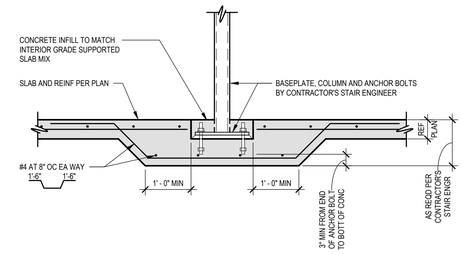
8 TYPICAL LAUNDRY DRAIN DETAIL
S3.03 3/4" = 1'-0"



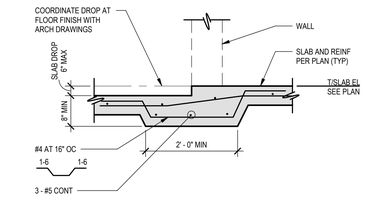
7 JAMB POST TO FOUNDATION CONNECTION DETAIL
S3.03 3/4" = 1'-0"



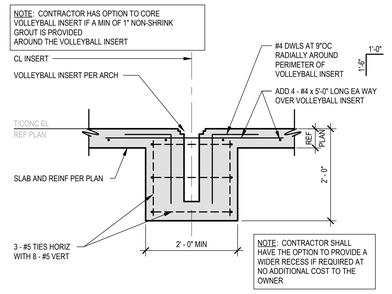
6 TYPICAL THICKENED SLAB AT INTERIOR NON-LOAD BEARING WALL DETAIL
S3.03 3/4" = 1'-0"



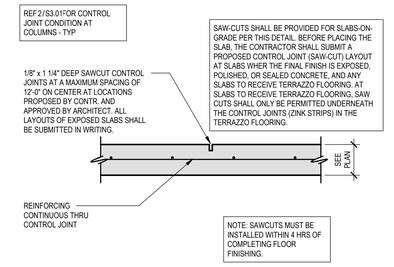
5 TYPICAL THICKENED SLAB AT STAIR SUPPORT
S3.03 3/4" = 1'-0"



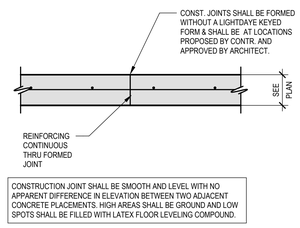
4 TYPICAL SLAB DEPRESSION 6" OR LESS
S3.03 3/4" = 1'-0"



3 TYPICAL VOLLEYBALL INSERT DETAIL
S3.03 3/4" = 1'-0"



2 TYPICAL SLAB CONTROL JOINT DETAIL
S3.03 3/4" = 1'-0"



1 TYPICAL SLAB CONSTRUCTION JOINT DETAIL
S3.03 3/4" = 1'-0"

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TYPICAL FOUNDATION DETAILS
VOLUME 01

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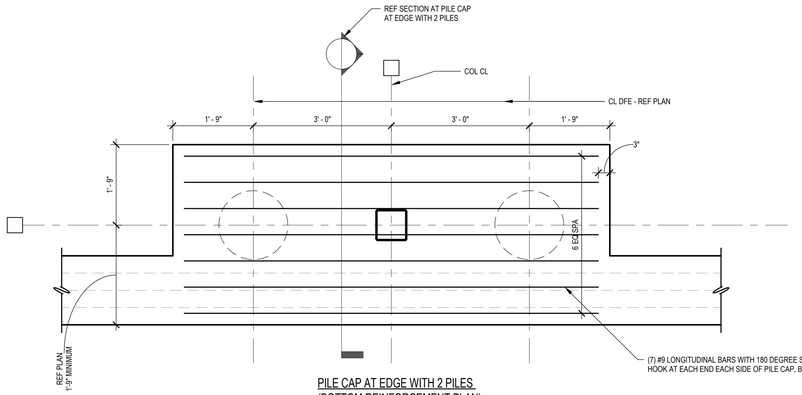
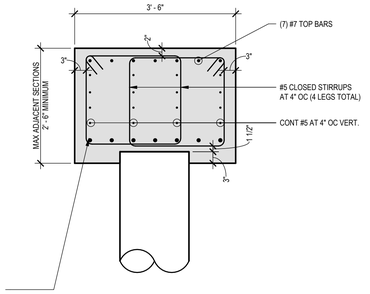
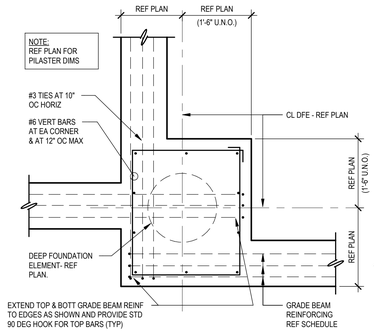


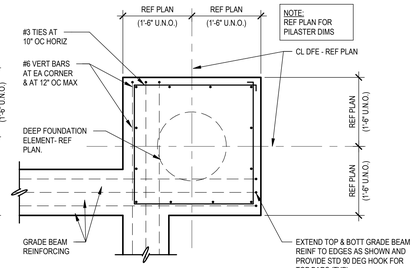
PILE CAP AT EDGE WITH 2 PILES
(BOTTOM REINFORCEMENT PLAN)



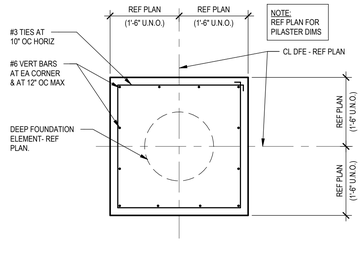
SECTION AT PILE CAP AT EDGE WITH 2 PILES



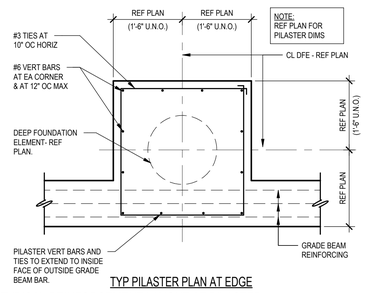
TYP PILASTER PLAN AT OFFSET CORNER/INTERSECTION



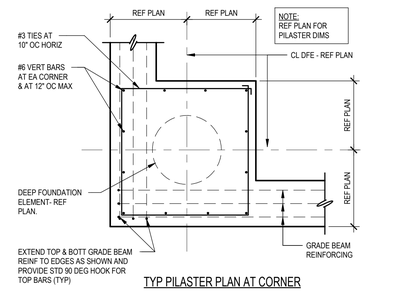
TYP PILASTER PLAN AT INSIDE CORNER



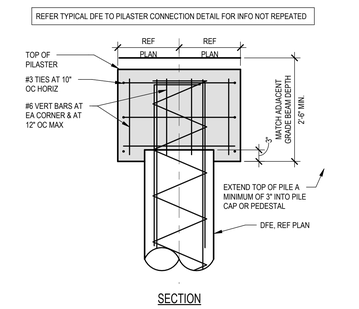
TYP PILASTER PLAN AT ISOLATED COLUMN



TYP PILASTER PLAN AT EDGE



TYP PILASTER PLAN AT CORNER



SECTION

1 TYPICAL REINFORCEMENT LAYOUT AT PILASTER
S3.04 3/4" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TYPICAL PERIMETER PEDESTAL AND PILE CAP DETAILS

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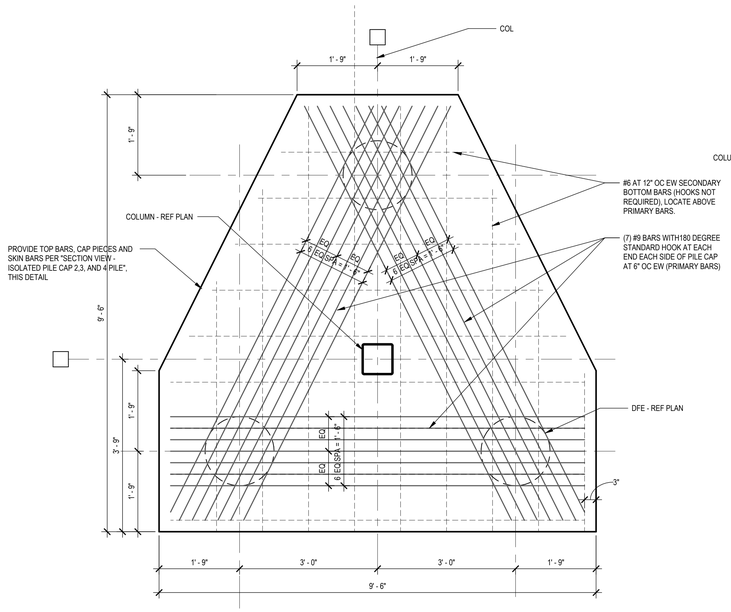
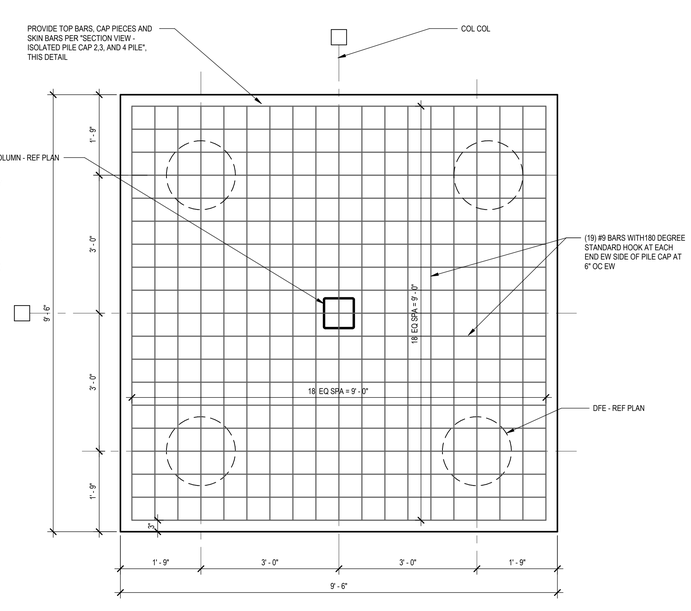
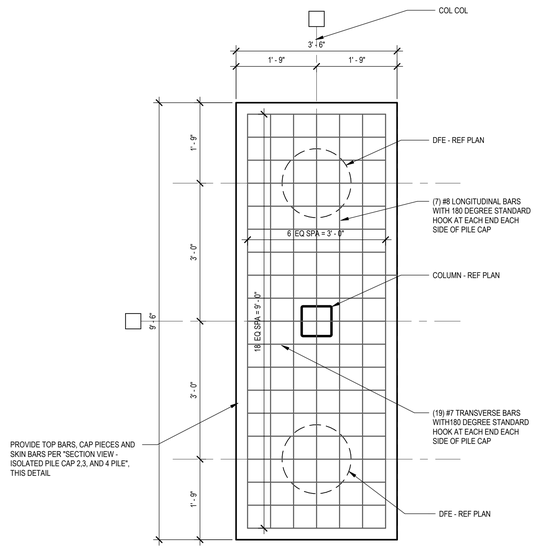


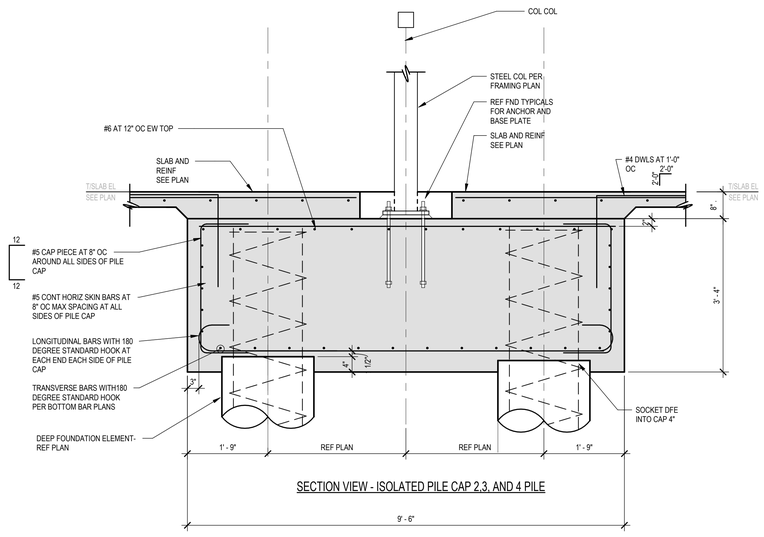
PLAN VIEW - 3-PILE CAP
(BOTTOM REINF LAYOUT)



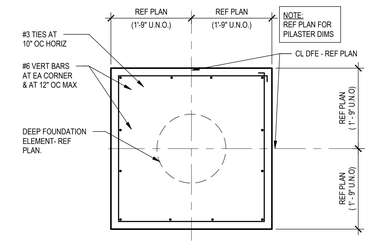
PLAN VIEW - 4-PILE CAP
(BOTTOM REINF LAYOUT)



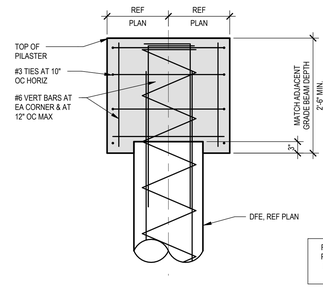
PLAN VIEW - 2-PILE CAP



SECTION VIEW - ISOLATED PILE CAP 2,3, AND 4 PILE



PLAN VIEW - SINGLE PILE PEDESTAL



REFER TYPICAL DFE TO PILASTER CONNECTION DETAIL FOR INFO NOT REPEATED

SECTION VIEW - SINGLE PILE PEDESTAL

1 TYPICAL SECTION AT PILE CAP
S3.05 3/4" = 1'-0"

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TYPICAL ISOLATED INTERIOR PILE CAP DETAILS

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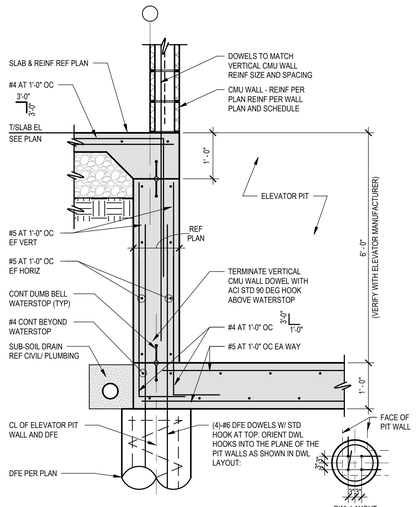
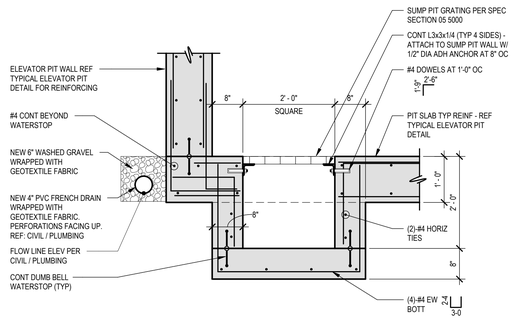
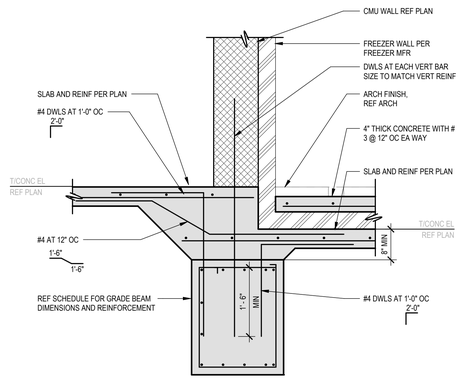


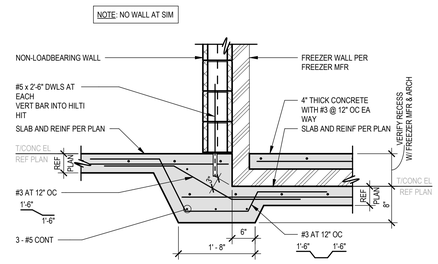
5 SECTION
S3.06 3/4" = 1'-0"



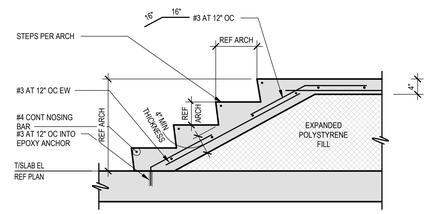
4 SECTION
S3.06 3/4" = 1'-0"



3 RECESS AT LOAD BEARING CMU WALL
S3.06 3/4" = 1'-0"



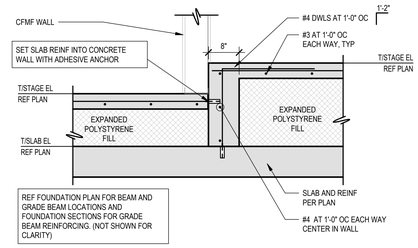
2 SECTION
S3.06 3/4" = 1'-0"



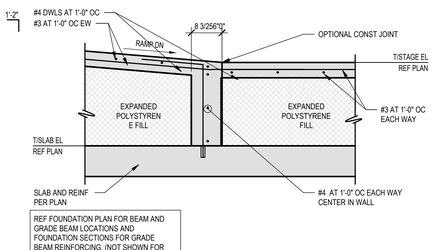
REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

REF ARCH DRAWINGS FOR LOCATIONS OF STEPS

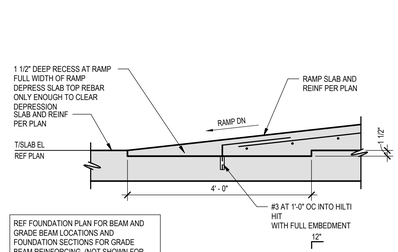
CONCRETE STEPS AT CHANGE IN SLAB ELEVATION



REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

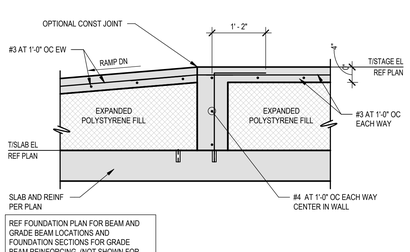


REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)



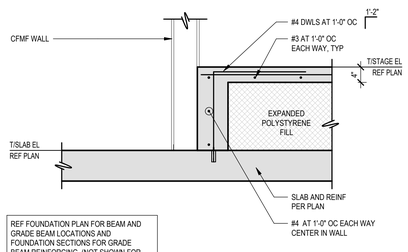
REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

AT END OF RAMP



REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

AT TOP OF RAMP OR LANDING



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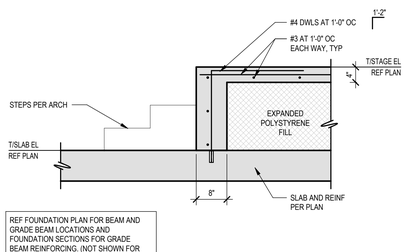
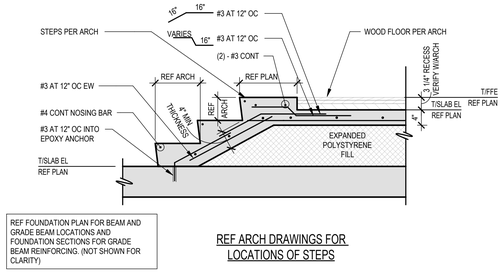
AT EDGE OR SIDE OF RAMP



REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

AT FRONT OF PLATFORM



REF FOUNDATION PLAN FOR BEAM AND GRADE BEAM LOCATIONS AND FOUNDATION SECTIONS FOR GRADE BEAM REINFORCING. (NOT SHOWN FOR CLARITY)

REF ARCH DRAWINGS FOR LOCATIONS OF STEPS

CONCRETE STEPS AT CHANGE IN SLAB ELEVATION

NOTE: REF ADJACENT FOUNDATION SECTIONS FOR INFORMATION NOT SHOWN HERE

1 TYPICAL SLAB OVER POLYSTYRENE DETAILS
S3.06 3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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FOUNDATION DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	S3.06
Drawn By: IEG	
Date: 07.15.26	

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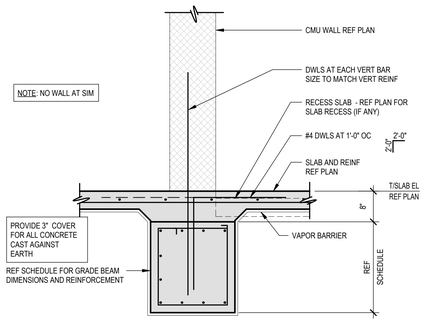
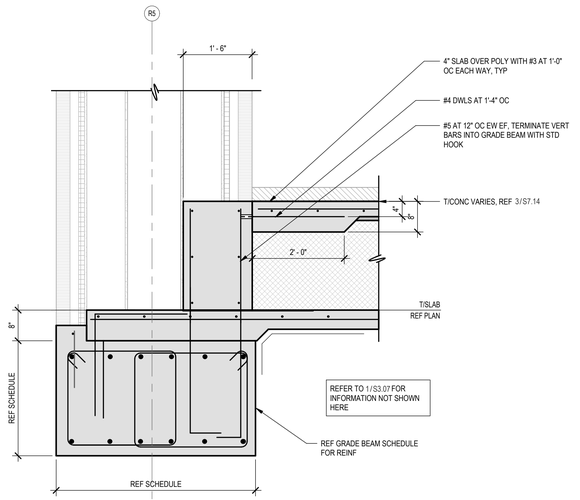
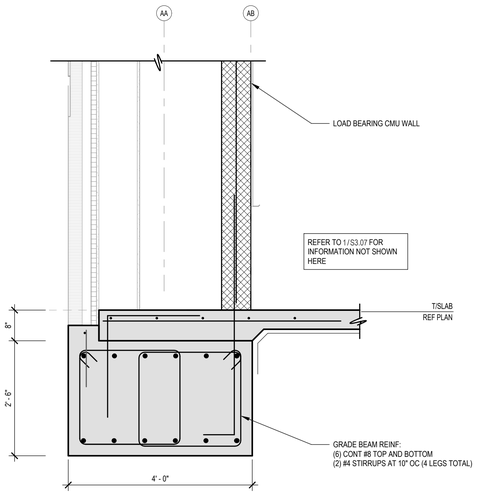


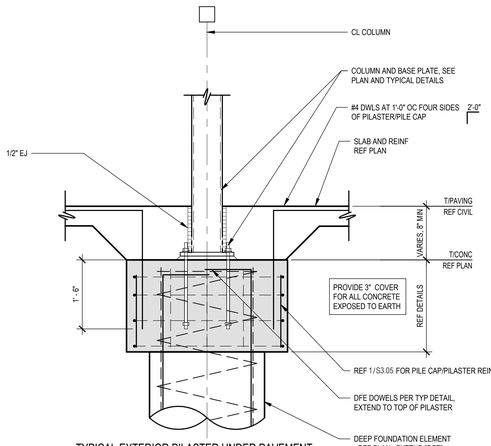
6 SECTION
S3.07 3/4" = 1'-0"



5 SECTION
S3.07 3/4" = 1'-0"

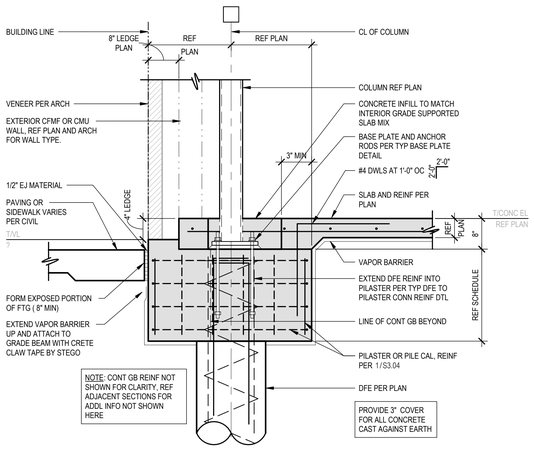


4 SECTION
S3.07 3/4" = 1'-0"

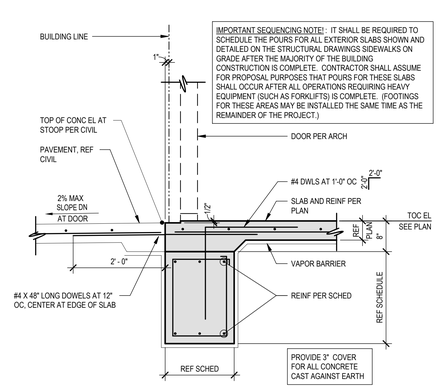


TYPICAL EXTERIOR PILASTER UNDER PAVEMENT WITHOUT MASONRY VENEER

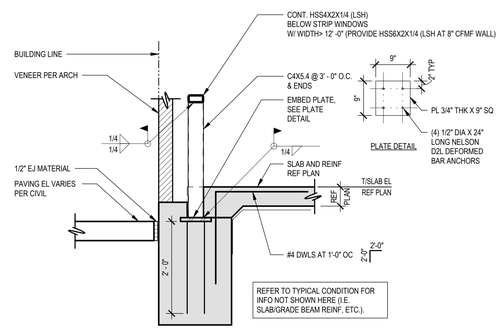
3 TYPICAL SEC EXTERIOR ISOLATED PILASTER OR PILE CAP
S3.07 3/4" = 1'-0"



2 TYPICAL SECTION - PERIMETER COLUMN PEDESTAL OR PILE CAP
S3.07 3/4" = 1'-0"



CONDITION D:PERIMETER GRADE BEAM AT DOOR



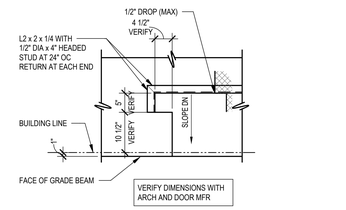
CONDITION E:PERIMETER GRADE BEAM AT LARGE OPENING WITH SILL ABOVE SLAB

COORDINATION OF PERIMETER FOUNDATION DETAILS:

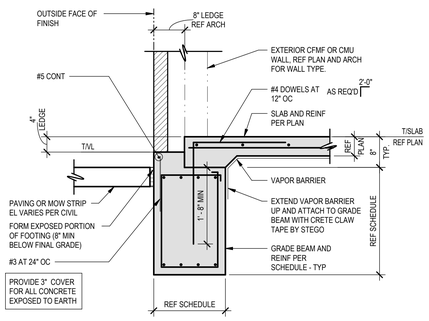
THE DETAILS IN THIS SECTION ARE INTENDED TO COLLECTIVELY DEFINE THE TYPICAL PERIMETER FOUNDATION, SLAB EDGE, DOOR, WALL, AND OPENING CONDITIONS THAT MAY OCCUR AROUND THE BUILDING PERIMETER.

THE CONTRACTOR SHALL COORDINATE THESE DETAILS WITH THE ARCHITECTURAL, STRUCTURAL, AND ALL OTHER CONTRACT DOCUMENTS TO DETERMINE THE LOCATION, LIMITS, AND APPLICABILITY OF EACH DETAIL AND SHALL CONSTRUCT THE WORK ACCORDINGLY.

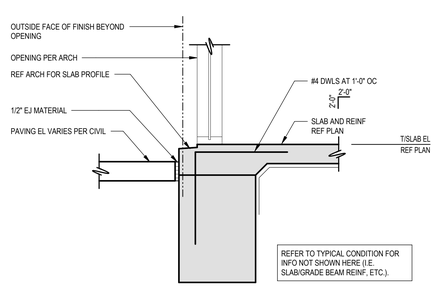
CONDITIONS NOT EXPLICITLY SHOWN SHALL NOT BE INTERPRETED AT THE CONTRACTOR'S DISCRETION. IF A CONDITION IS ENCOUNTERED THAT IS NOT CLEARLY ADDRESSED BY THE CONTRACT DOCUMENTS OR THESE DETAILS, THE CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT AND STRUCTURAL ENGINEER AND OBTAIN WRITTEN DIRECTION PRIOR TO PROCEEDING WITH THE WORK.



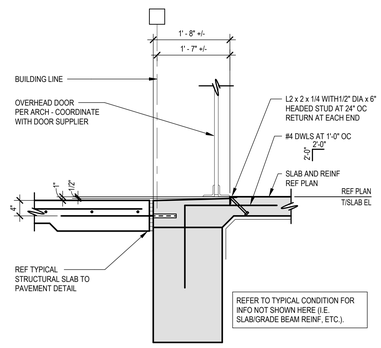
PLAN VIEW AT OVERHEAD DOOR CORNER



CONDITION A: PERIMETER GRADE BEAM AT CMU OR CFMF WALL WITHOUT OPENING (TYPICAL CONDITION)



CONDITION B:PERIMETER GRADE BEAM AT OPENING EXTENDING TO SLAB



CONDITION C:PERIMETER GRADE BEAM AT OVERHEAD DOOR

1 TYPICAL SECTION - PERIMETER GRADE BEAM WITH MASONRY VENEER
S3.07 3/4" = 1'-0"

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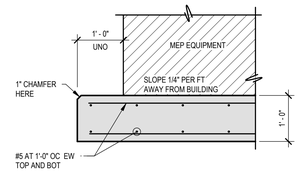
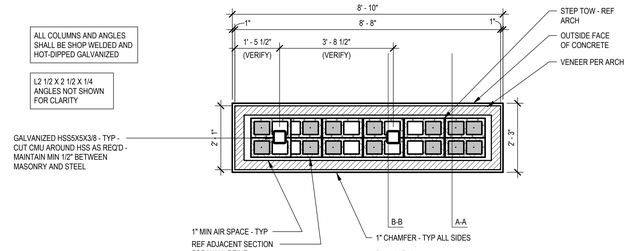
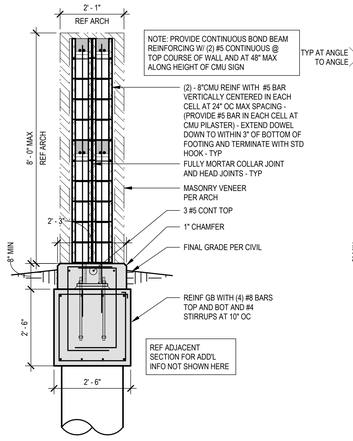
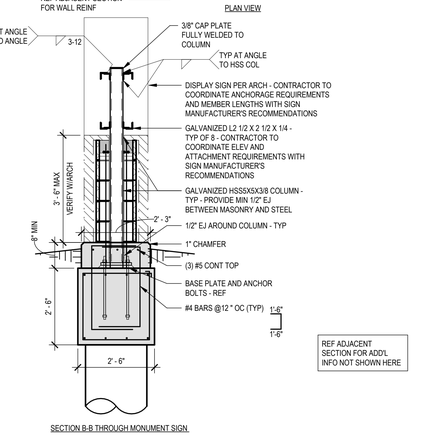


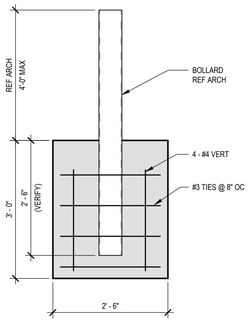
10 TYPICAL EQUIPMENT PAD DETAIL
S3.08 3/4" = 1'-0"



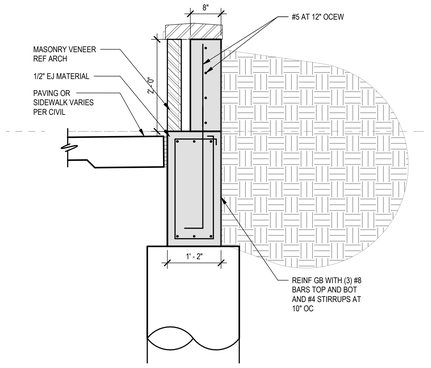




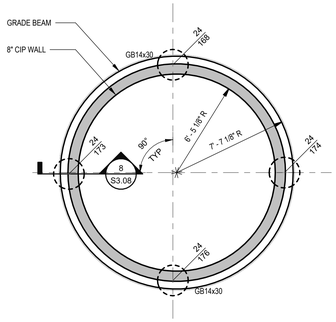
9 BOLLARD DETAIL - TYPE A
S3.08 3/4" = 1'-0"



8 TYPICAL SECTION AT PLANTER
S3.08 3/4" = 1'-0"

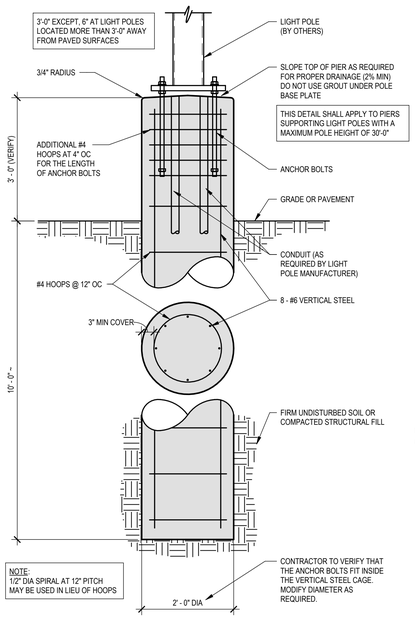


7 FOUNDATION PLAN - PLANTER
S3.08 1/4" = 1'-0"

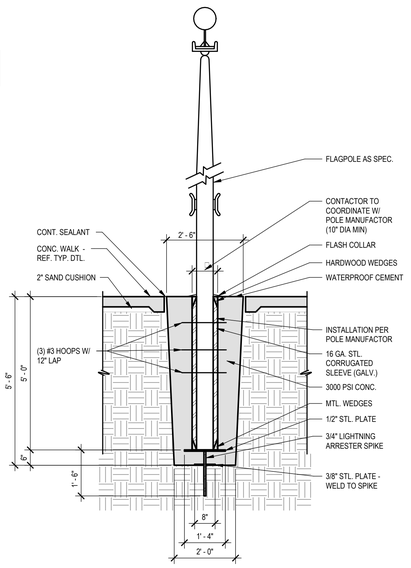


6 MONUMENT SIGN FOUNDATION
S3.08 1/2" = 1'-0"

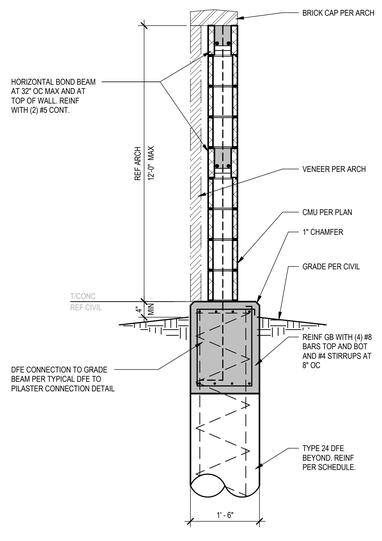
5 TYPICAL LIGHT POLE PIER FOR LIGHT POLES UP TO 30'-0" TALL
S3.08 3/4" = 1'-0"



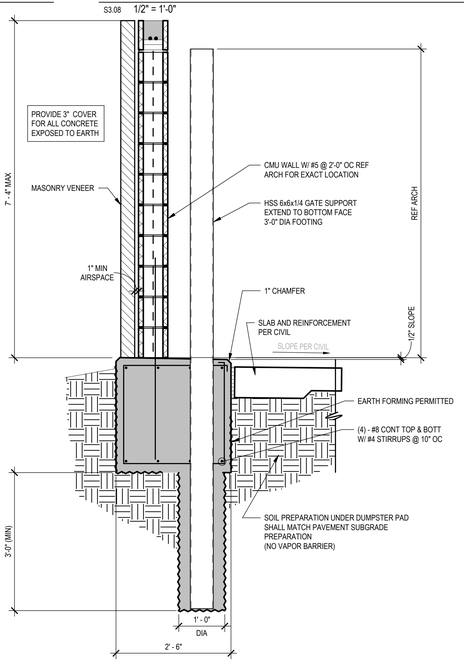
4 TYPICAL FLAGPOLE BASE FOR FLAGPOLES UP TO 25' MAX HEIGHT
S3.08 1/2" = 1'-0"



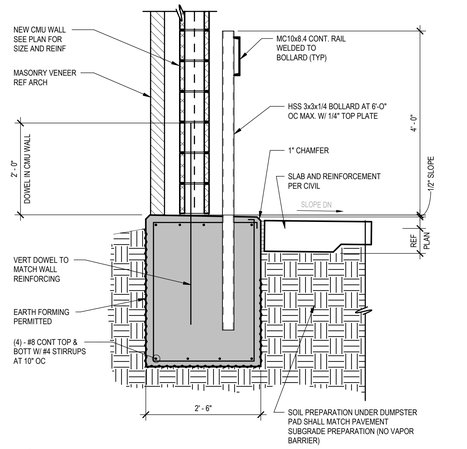
3 TYPICAL SCREEN WALL SECTION
S3.08 3/4" = 1'-0"



2 EXTERIOR GRADE BEAM AT DUMPSTER BOLLARD
S3.08 3/4" = 1'-0"



1 EXTERIOR GRADE BEAM AT DUMPSTER BOLLARD
S3.08 3/4" = 1'-0"



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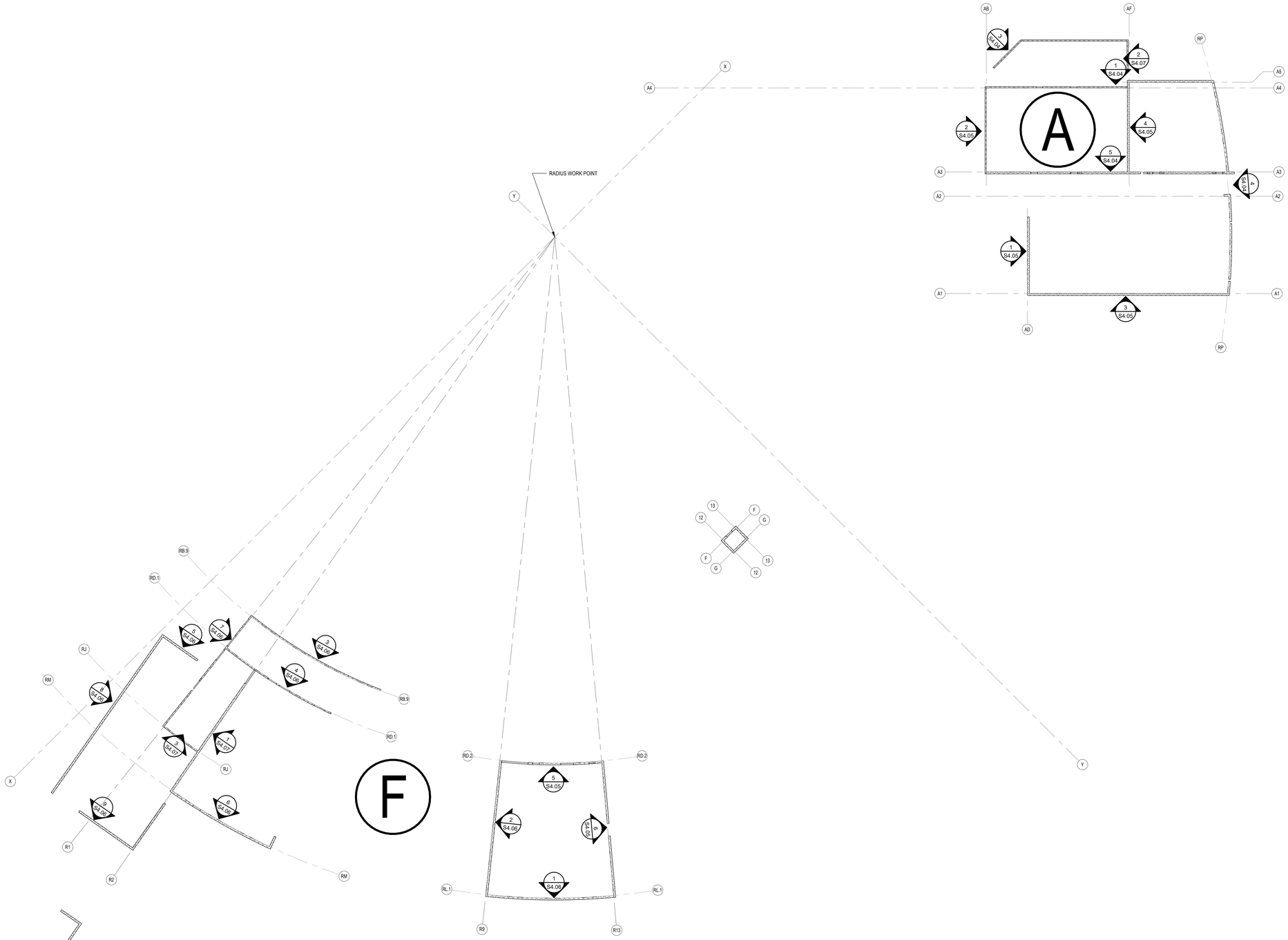
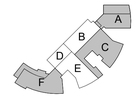


1 MASTER STRUCTURAL WALL PLAN
S4.01 3/64" = 1'-0"

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE SECTION PLANS WHICH FOLLOW. REFER TO LARGER SCALE PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS.

MASTER FLOOR PLAN AND PLAN SECTIONS

N
PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

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MASTER PLAN - STRUCTURAL WALLS

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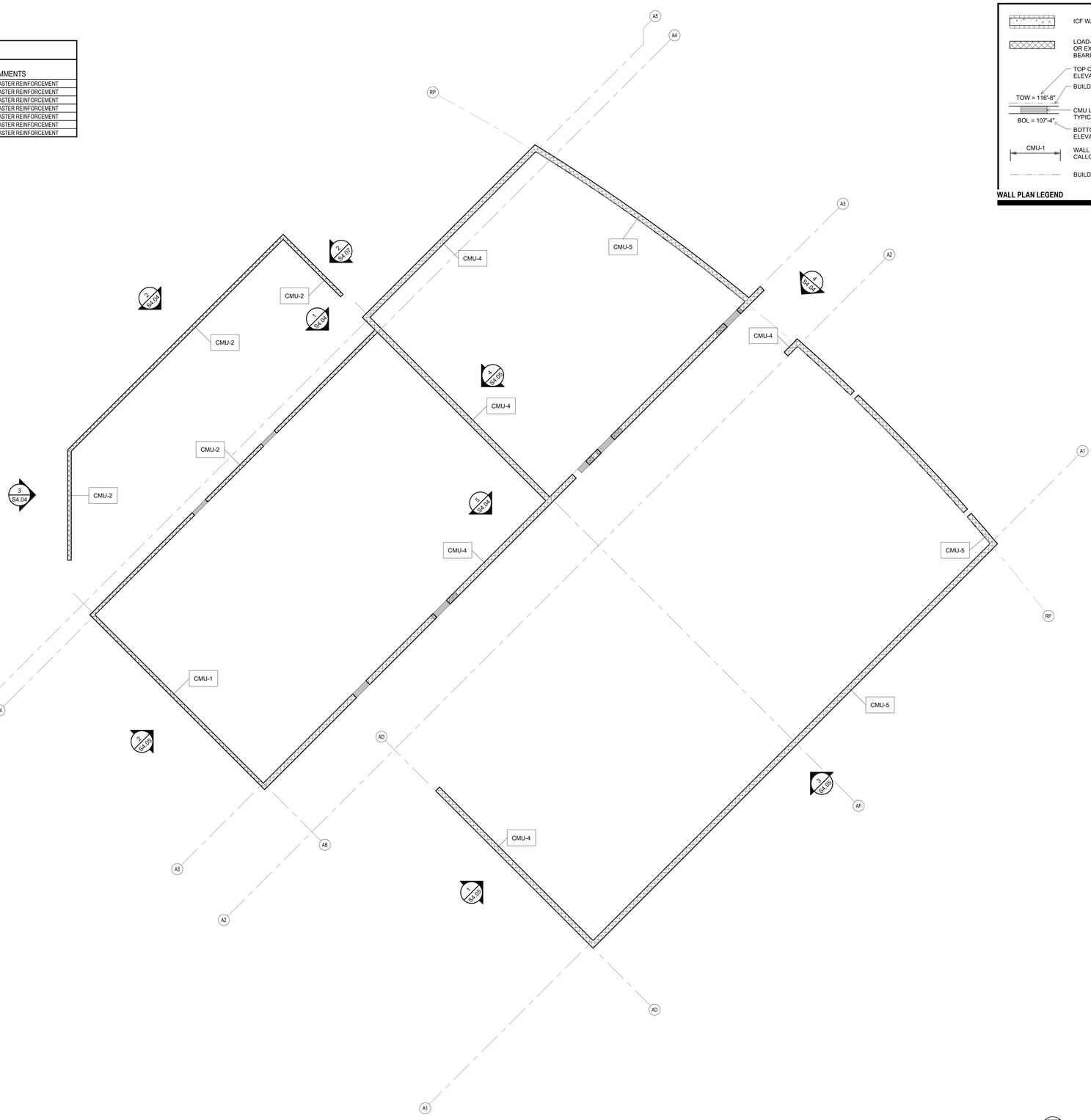
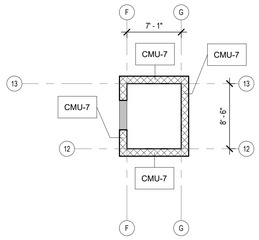
CMU LOAD BEARING WALL REINFORCEMENT SCHEDULE

WALL MARK	NOMINAL WALL THICKNESSES	GROUTING	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	COMMENTS
CMU-1	8"	PARTIAL	#5 AT 48" OC	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-2	8"	PARTIAL	#5 AT 32" OC	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-3	8"	PARTIAL	#5 AT 24" OC	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-4	12"	PARTIAL	#5 AT 48" EACH FACE	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-5	12"	PARTIAL	#5 AT 32" EACH FACE	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-6	12"	PARTIAL	#5 AT 24" EACH FACE	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT
CMU-7	12"	FULL	#5 AT 8" EACH FACE	(2) - #5 AT 48" OC + BED JOINT REINF AT 16" OC	SEE PLAN NOTE FOR PILASTER REINFORCEMENT

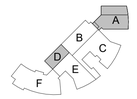




2 STRUCTURAL WALL PLAN - AREA D
S4.02 1/8" = 1'-0"

1 STRUCTURAL WALL PLAN - AREA A
S4.02 1/8" = 1'-0"

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

WALL PLAN LEGEND

Date

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ENLARGED WALL PLANS - AREA A & D

VOLUME 01

Job No.	Sheet No.
00802-04-01	S4.02
Drawn By: IEG	
Date: 07.15.26	

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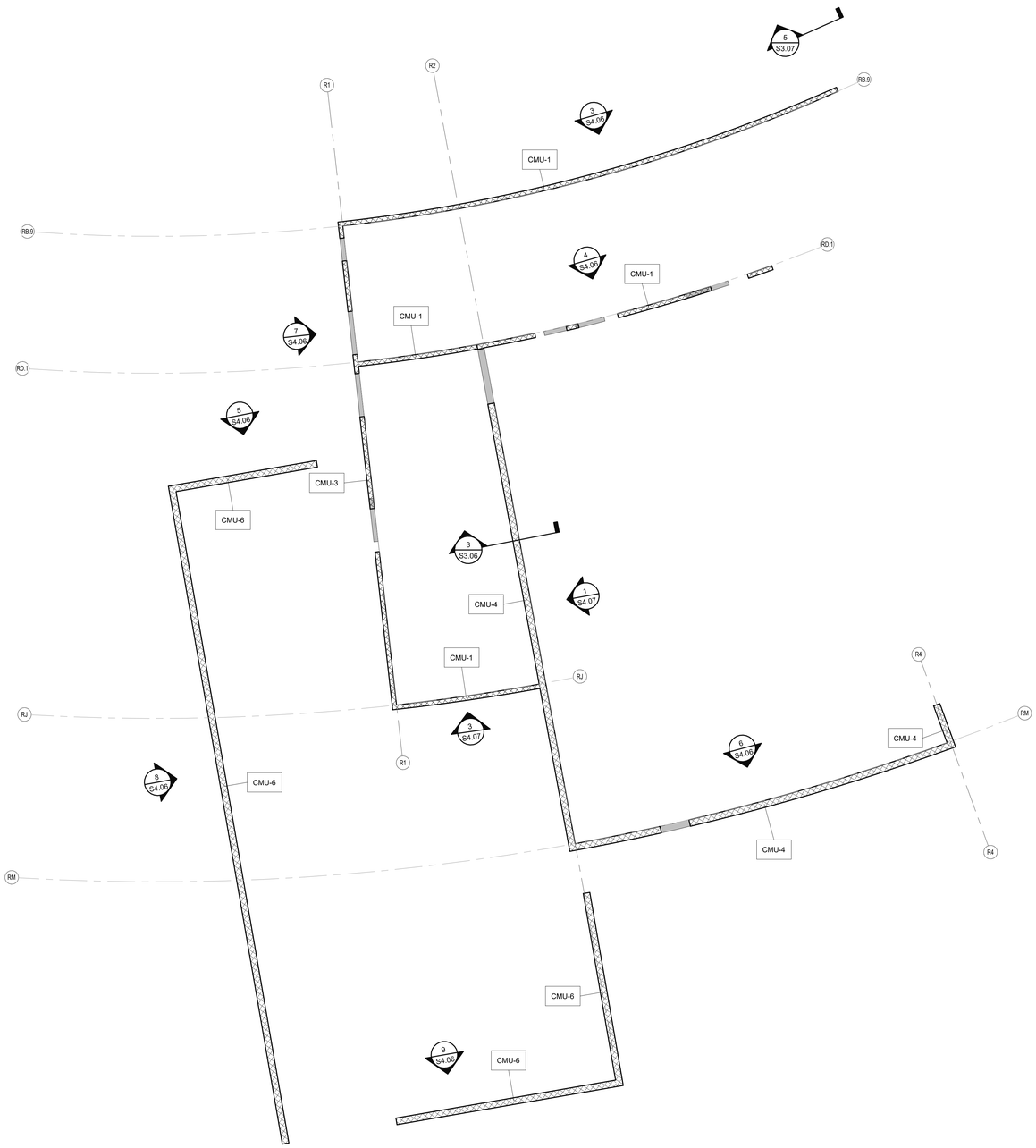
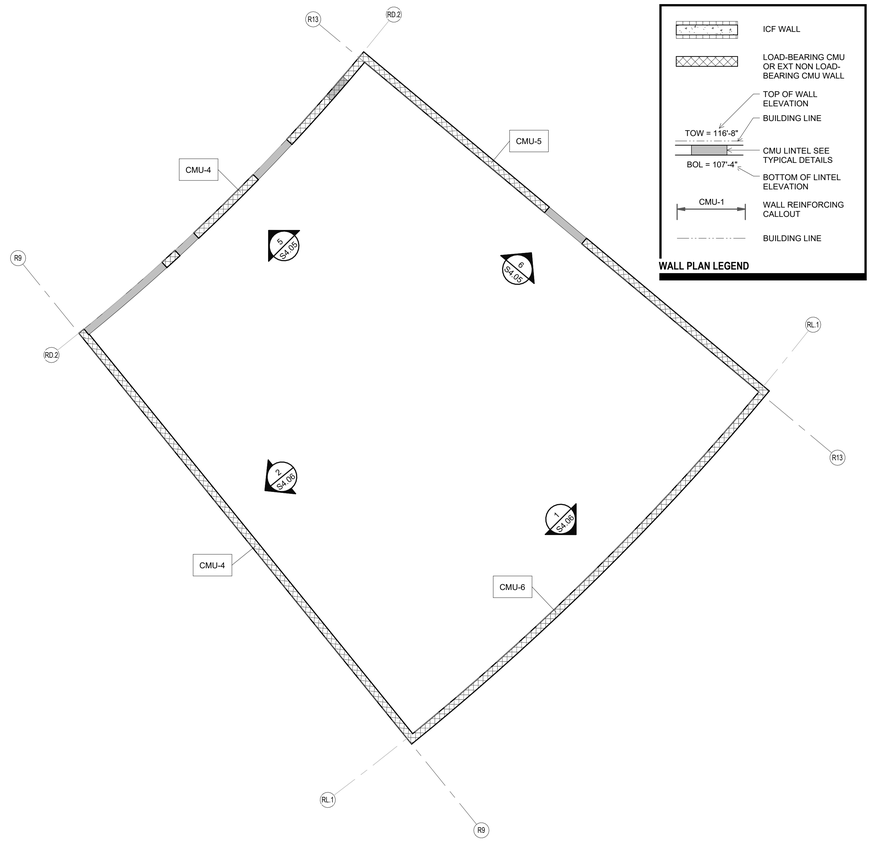
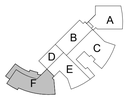


1 STRUCTURAL WALL PLAN - AREA F
S4.03 1/8" = 1'-0"



WALL PLAN LEGEND

PLAN



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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ENLARGED WALL PLAN - AREA F

VOLUME 01

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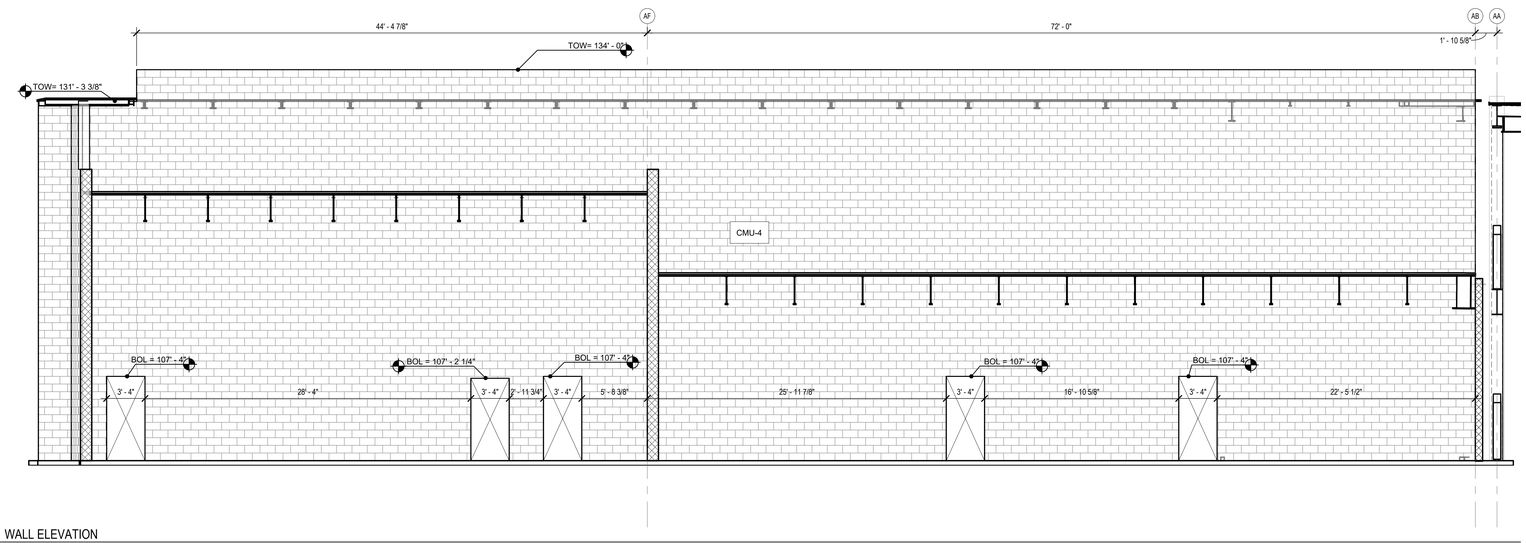
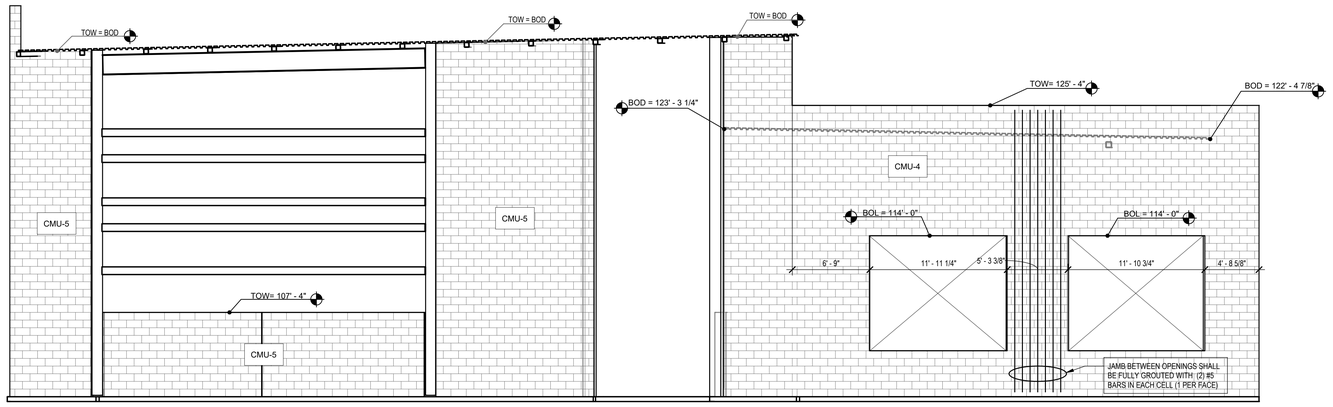
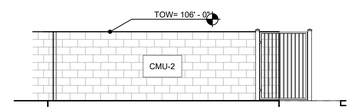


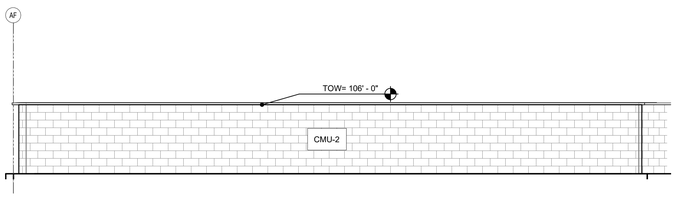
5 WALL ELEVATION
S4.04 3/16" = 1'-0"



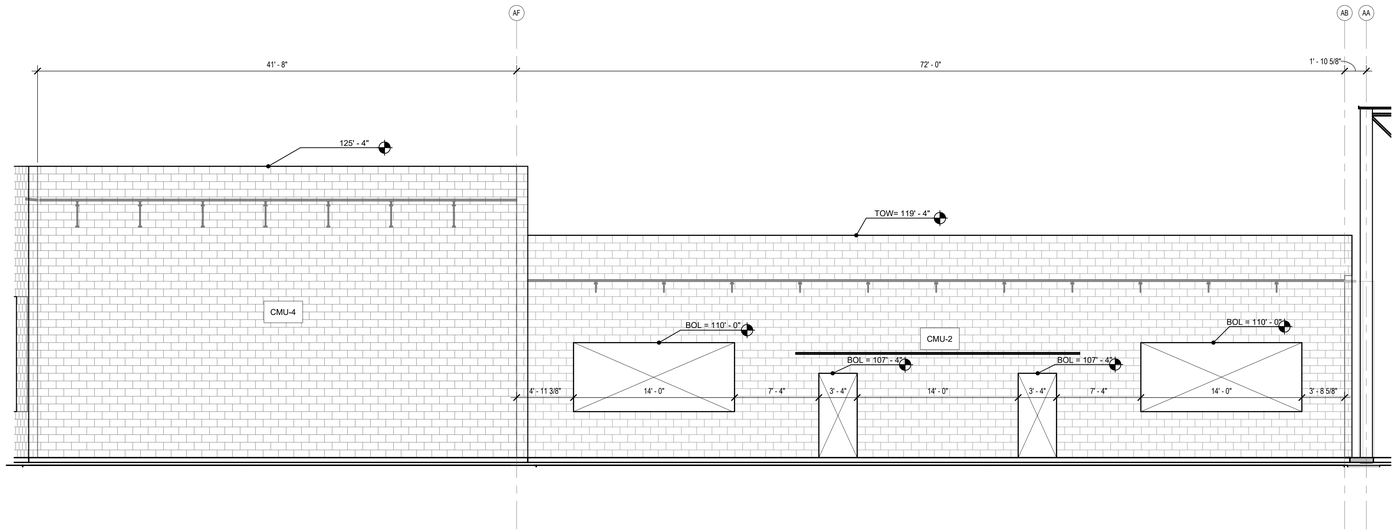
4 WALL ELEVATION
S4.04 3/16" = 1'-0"



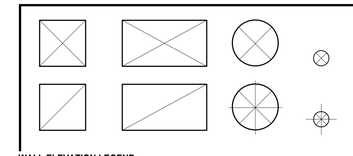
3 WALL ELEVATION
S4.04 3/16" = 1'-0"



2 WALL ELEVATION
S4.04 3/16" = 1'-0"



1 WALL ELEVATION
S4.04 3/16" = 1'-0"



WALL ELEVATION LEGEND

1. REFERENCE WALL REINFORCEMENT PLANS FOR TYPICAL WALL REINFORCEMENT.
2. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS OF MEP PENETRATIONS WITH ALL APPROVED MEP SHOP DRAWINGS FOR COMPONENTS SUCH AS DUCTS AND PIPES THAT WILL PENETRATE THE WALLS AND INDICATE THOSE ON THE SUBMITTED WALL SHOP DRAWINGS. SIMILARLY, THE CONTRACTOR SHALL COORDINATE THE FINAL OPENING SIZE AND LOCATION FOR ARCHITECTURALLY REQUIRED OPENINGS, SUCH AS DOORS AND WINDOWS, WITH THE FINAL APPROVED SHOP DRAWINGS FOR THOSE ITEMS. THESE REQUIREMENTS ALSO APPLY TO ALL ADDENDA.
3. FINAL MEP WALL OPENING SIZES SHALL CONSIDER ITEMS SUCH AS DUCT OR PIPE INSULATION REQUIREMENTS, BUT SHALL NOT EXCEED THE LIMITS OF TYPICAL CMU/ICF LINTEL DETAILS.
4. REFER TO TYPICAL CMU LINTEL DETAILS FOR PENETRATIONS LARGER THAN 8"x8" AND SHALL BE LIMITED TO A MAXIMUM OF 9'-4". LINTELS SCHEDULED AS "SPECIAL" INDICATED BY AN "SP" TAG, SHALL NOT BE CONSIDERED AS ALLOWABLE FOR MEP PENETRATIONS.
5. IF MEP ITEMS ARE SHIFTED FROM THE ORIGINAL LOCATIONS SHOWN ON THE MEP DRAWINGS, THE CONTRACTOR SHALL VERIFY A MINIMUM OF 24" BETWEEN MEP OPENINGS IS PROVIDED. HOWEVER, IT IS ACCEPTABLE TO HAVE MORE THAN ONE MEP ITEM PASS THROUGH A SINGLE OPENING IF IT DOESN'T EXCEED THE LIMITS OF THE TYPICAL LINTEL DETAILS.
6. MEP PENETRATIONS SHALL NOT BE ALLOWED WITHIN A 4'x4' SPACE BELOW STRUCTURAL MEMBER BEARING. IF IT IS REQUIRED TO PENETRATE ANY CLOSER TO A BEARING ELEVATION THE SEOR SHALL BE NOTIFIED.
7. CIRCULAR PENETRATIONS LESS THAN 8" IN DIAMETER ARE PERMITTED TO BE CORED IN THE FIELD. IF CORING IS UTILIZED, WALL REINFORCEMENT SHALL BE FIELD LOCATED AND NOT CUT OR DAMAGED.
8. ALL PREVIOUS NOTES APPLY TO ELEVATED, NON-ELEVATED, LOAD BEARING, AND NON-LOAD-BEARING WALLS.

WALL ELEVATION LEGEND

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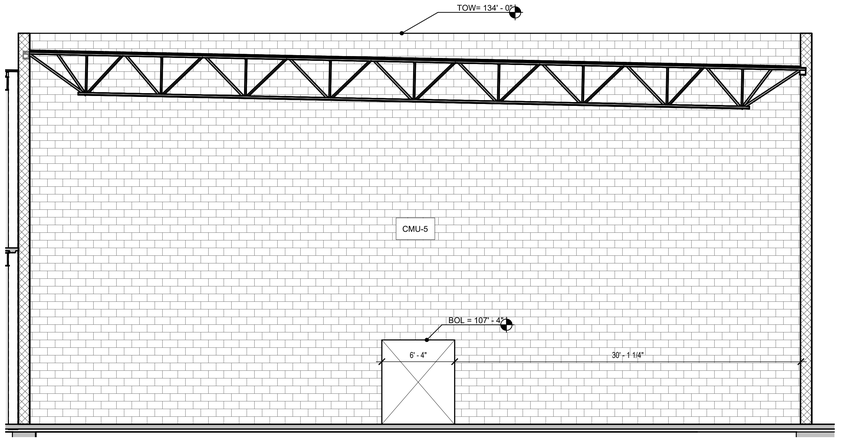
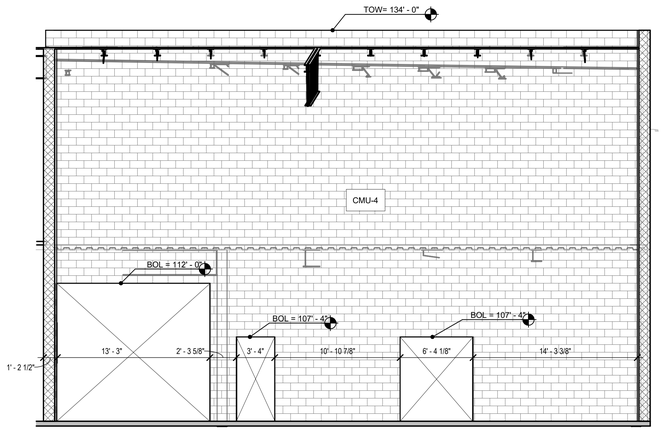
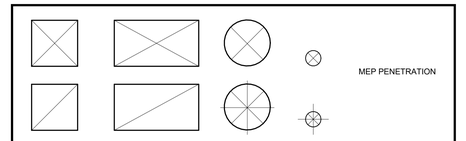


6 WALL ELEVATION
S4.05 3/16" = 1'-0"



5 WALL ELEVATION
S4.05 3/16" = 1'-0"



WALL ELEVATION LEGEND

1. REFERENCE WALL REINFORCEMENT PLANS FOR TYPICAL WALL REINFORCEMENT.
2. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS OF MEP PENETRATIONS WITH ALL APPROVED MEP SHOP DRAWINGS FOR COMPONENTS SUCH AS DUCTS AND PIPES THAT WILL PENETRATE THE WALLS AND INDICATE THOSE ON THE SUBMITTED WALL SHOP DRAWINGS. SIMILARLY, THE CONTRACTOR SHALL COORDINATE THE FINAL OPENING SIZE AND LOCATION FOR ARCHITECTURALLY REQUIRED OPENINGS, SUCH AS DOORS AND WINDOWS, WITH THE FINAL APPROVED SHOP DRAWINGS FOR THOSE ITEMS. THESE REQUIREMENTS ALSO APPLY TO ALL ADDENDA.
3. FINAL MEP WALL OPENING SIZES SHALL CONSIDER ITEMS SUCH AS DUCT OR PIPE INSULATION REQUIREMENTS, BUT SHALL NOT EXCEED THE LIMITS OF TYPICAL CMU/ICF LINTEL DETAILS.
4. REFER TO TYPICAL CMU LINTEL DETAILS FOR PENETRATIONS LARGER THAN 8"x8" AND SHALL BE LIMITED TO A MAXIMUM OF 9'-4". LINTELS SCHEDULED AS "SPECIAL" INDICATED BY AN "SP" TAG, SHALL NOT BE CONSIDERED AS ALLOWABLE FOR MEP PENETRATIONS.
5. IF MEP ITEMS ARE SHIFTED FROM THE ORIGINAL LOCATIONS SHOWN ON THE MEP DRAWINGS, THE CONTRACTOR SHALL VERIFY A MINIMUM OF 24" BETWEEN MEP OPENINGS IS PROVIDED. HOWEVER, IT IS ACCEPTABLE TO HAVE MORE THAN ONE MEP ITEM PASS THROUGH A SINGLE OPENING IF IT DOESN'T EXCEED THE LIMITS OF THE TYPICAL LINTEL DETAILS.
6. MEP PENETRATIONS SHALL NOT BE ALLOWED WITHIN A 4'x4' SPACE BELOW STRUCTURAL MEMBER BEARING. IF IT IS REQUIRED TO PENETRATE ANY CLOSER TO A BEARING ELEVATION THE SEOR SHALL BE NOTIFIED.
7. CIRCULAR PENETRATIONS LESS THAN 8" IN DIAMETER ARE PERMITTED TO BE CORED IN THE FIELD. IF CORING IS UTILIZED, WALL REINFORCEMENT SHALL BE FIELD LOCATED AND NOT CUT OR DAMAGED.
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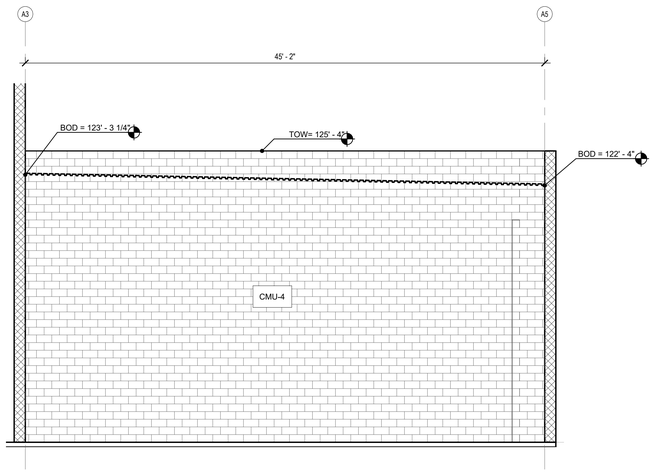
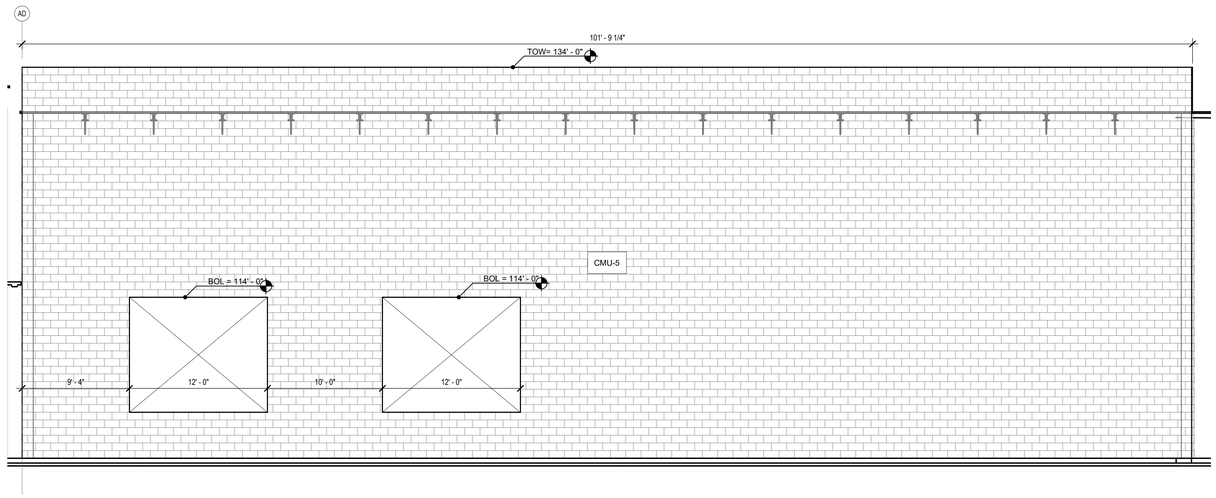
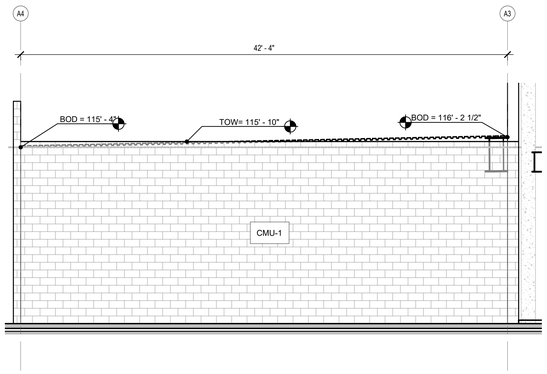
WALL ELEVATION LEGEND



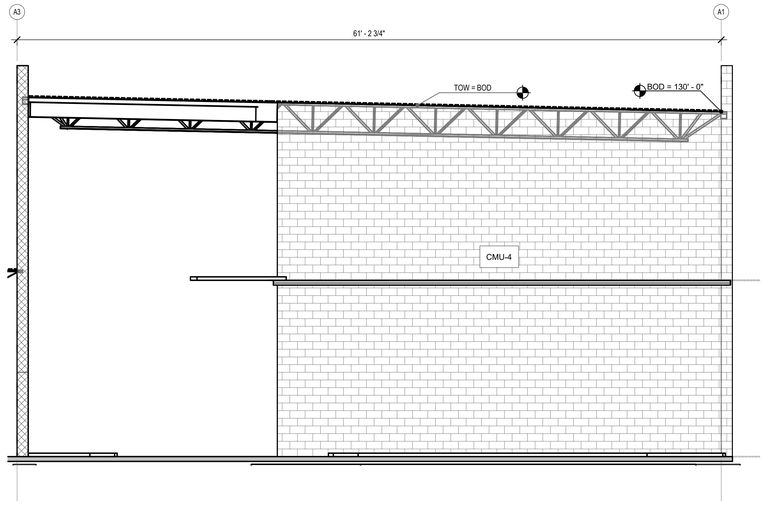
4 WALL ELEVATION
S4.05 3/16" = 1'-0"



3 WALL ELEVATION
S4.05 3/16" = 1'-0"



2 WALL ELEVATION
S4.05 3/16" = 1'-0"



1 WALL ELEVATION
S4.05 3/16" = 1'-0"

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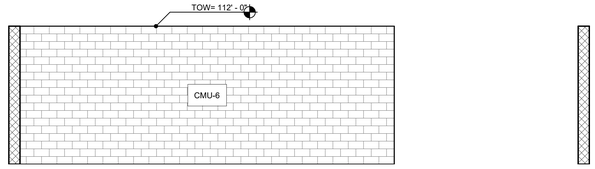
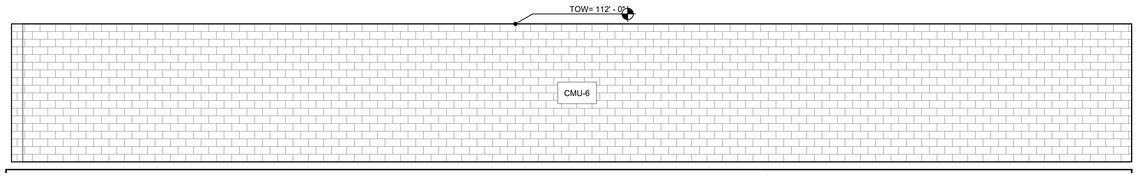
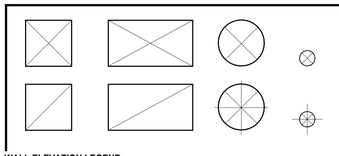


9 WALL ELEVATION
S4.06 3/16" = 1'-0"



8 WALL ELEVATION
S4.06 3/16" = 1'-0"



WALL ELEVATION LEGEND

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6. MEP PENETRATIONS SHALL NOT BE ALLOWED WITHIN A 4'x4' SPACE BELOW STRUCTURAL MEMBER BEARING. IF IT IS REQUIRED TO PENETRATE ANY CLOSER TO A BEARING ELEVATION THE SEOR SHALL BE NOTIFIED.
7. CIRCULAR PENETRATIONS LESS THAN 8" IN DIAMETER ARE PERMITTED TO BE CORED IN THE FIELD. IF CORING IS UTILIZED, WALL REINFORCEMENT SHALL BE FIELD LOCATED AND NOT CUT OR DAMAGED.
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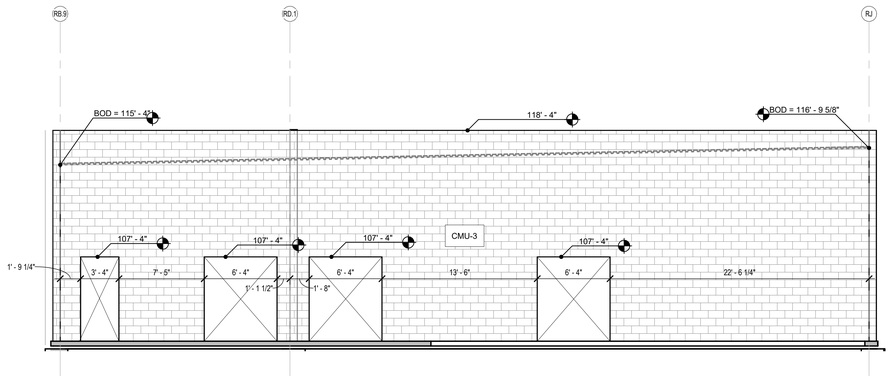
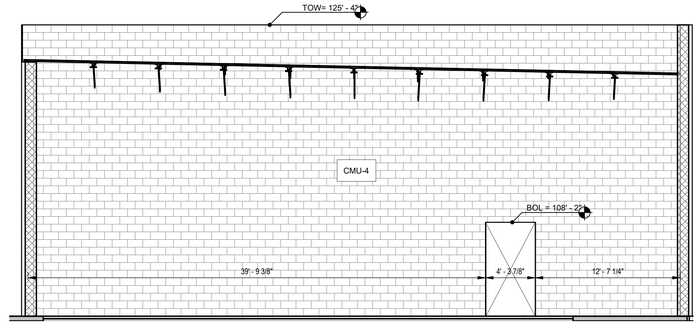
WALL ELEVATION LEGEND



7 WALL ELEVATION
S4.06 3/16" = 1'-0"



6 WALL ELEVATION
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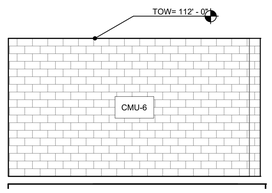
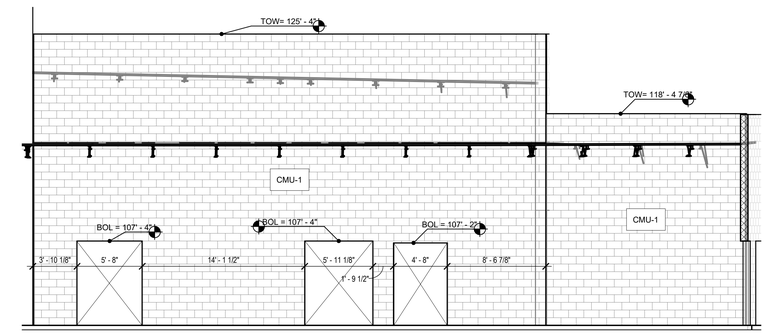
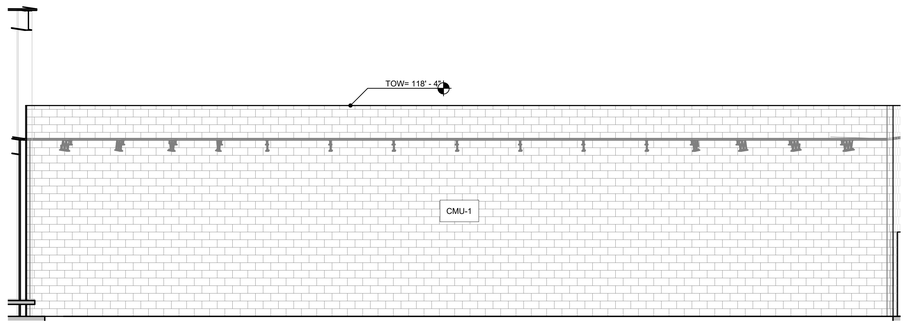


5 WALL ELEVATION
S4.06 3/16" = 1'-0"



4 WALL ELEVATION
S4.06 3/16" = 1'-0"



3 WALL ELEVATION
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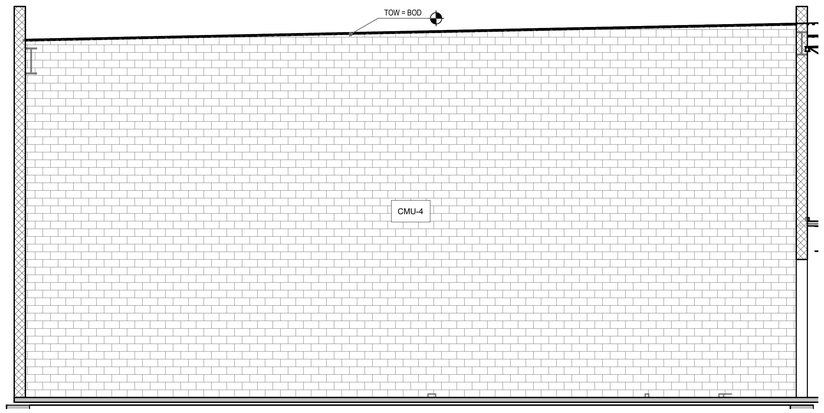

2 WALL ELEVATION
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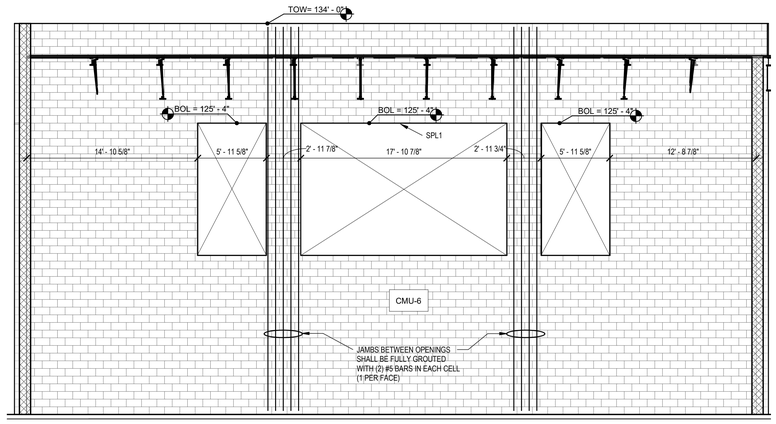

1 WALL ELEVATION
S4.06 3/16" = 1'-0"

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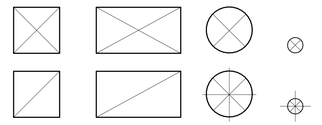

WALL ELEVATION LEGEND

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2. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS OF MEP PENETRATIONS WITH ALL APPROVED MEP SHOP DRAWINGS FOR COMPONENTS SUCH AS DUCTS AND PIPES THAT WILL PENETRATE THE WALLS AND INDICATE THOSE ON THE SUBMITTED WALL SHOP DRAWINGS. SIMILARLY, THE CONTRACTOR SHALL COORDINATE THE FINAL OPENING SIZE AND LOCATION FOR ARCHITECTURALLY REQUIRED OPENINGS, SUCH AS DOORS AND WINDOWS, WITH THE FINAL APPROVED SHOP DRAWINGS FOR THOSE ITEMS. THESE REQUIREMENTS ALSO APPLY TO ALL ADDENDA.
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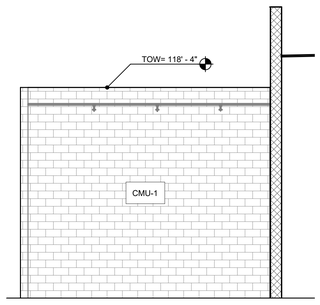
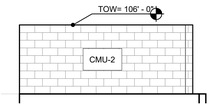
6. MEP PENETRATIONS SHALL NOT BE ALLOWED WITHIN A 4'x4' SPACE BELOW STRUCTURAL MEMBER BEARING. IF IT IS REQUIRED TO PENETRATE ANY CLOSER TO A BEARING ELEVATION THE SEOR SHALL BE NOTIFIED.
7. CIRCULAR PENETRATIONS LESS THAN 8" IN DIAMETER ARE PERMITTED TO BE CORED IN THE FIELD. IF CORING IS UTILIZED, WALL REINFORCEMENT SHALL BE FIELD LOCATED AND NOT CUT OR DAMAGED.
8. ALL PREVIOUS NOTES APPLY TO ELEVATED, NON-ELEVATED, LOAD BEARING, AND NON-LOAD-BEARING WALLS.

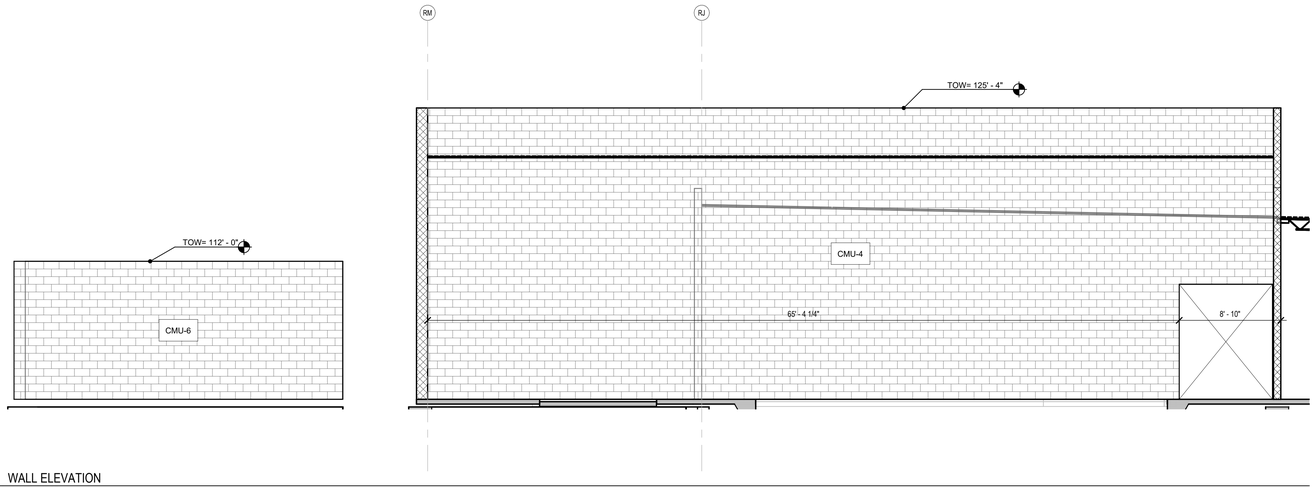
WALL ELEVATION LEGEND



3 WALL ELEVATION
S4.07 3/16" = 1'-0"



2 WALL ELEVATION
S4.07 3/16" = 1'-0"



1 WALL ELEVATION
S4.07 3/16" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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WALL ELEVATIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. S4.07
Drawn By: IEG	
Date: 07.15.26	

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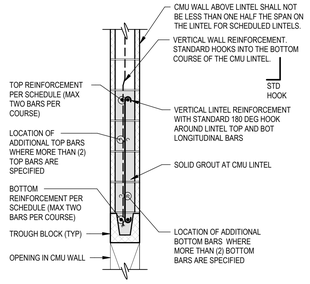
SCHEDULED CMU LINTELS					
CLEAR SPAN	DEPTH	TOP REINF	BOTTOM REINF	VERTICAL LINTEL REINFORCEMENT FOR LINTELS SUPPORTING LESS THAN 15'-0" OF MASONRY VENEER	VERTICAL LINTEL REINFORCEMENT FOR LINTELS SUPPORTING MORE THAN 15'-0" OF MASONRY VENEER
UP TO 2'-7"	0'-8"	-	(2)-#5	SAME AS VERT WALL REINF	#4 AT 1'-0" OC
UP TO 6'-7"	1'-4	(2)-#5	(2)-#5	SAME AS VERT WALL REINF	#4 AT 1'-0" OC
UP TO 9'-4"	2'-0"	(2)-#6	(2)-#6	#4 AT 1'-0" OC	#5 AT 1'-0" OC
UP TO 14'-0"	3'-4"	(2)-#6	(2)-#6	#4 AT 1'-0" OC	#5 AT 1'-0" OC
SPL 1	5'-4"	(4)-#6	(4)-#6	#4 AT 1'-0" OC	#5 AT 0'-8" OC
SPL 2	2'-0"	-	(2)-#5	SAME AS VERT WALL REINF	#4 AT 1'-0" OC

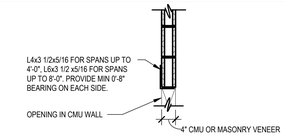


CMU LINTEL SCHEDULE NOTES:

1. CMU LINTELS FOR SPANS OVER 12'-0" SHALL BE DETAILED ELSEWHERE.
2. THE TOTAL SPAN OF THE CMU LINTEL SHALL BE THE CLEAR SPAN PLUS THE MINIMUM BEARING ON EACH END OF THE OPENING.
3. A MINIMUM OF 0'-8" BEARING SHALL BE PROVIDED AT EACH END OF CMU LINTELS WHERE THE TOTAL SPAN IS LESS THAN 8'-0".
4. A MINIMUM OF 1'-4" BEARING SHALL BE PROVIDED AT EACH END OF CMU LINTELS WHERE THE TOTAL SPAN IS GREATER THAN OR EQUAL TO 8'-0"
5. ALL CELLS FOR CMU LINTELS SHALL BE GROUTED SOLID
6. MINIMUM DEPTH OF ANY CMU LINTEL SUPPORTING MASONRY VENEER SHALL BE 2'-0". THE FIRST TWO COURSES OF ANY LINTEL SUPPORTING MASONRY VENEER SHALL BE 8" MINIMUM.

NOTE: THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE MASONRY WALLS ARE REQUIRED TO SPAN ACROSS OPENINGS IN 6,8,10, OR 12" LOAD BEARING, EXTERIOR NON-LOAD BEARING, AND NON-LOAD BEARING CMU WALLS.

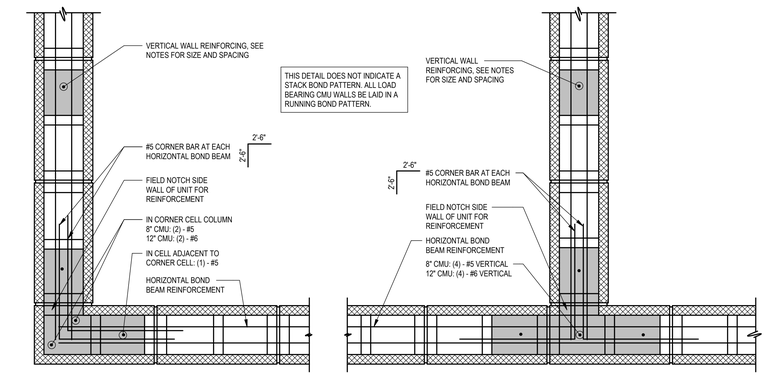
CONCRETE MASONRY UNIT LINTEL SCHEDULE FOR 6, 8, 10, AND 12" CMU



NOTE:
1. THIS DETAIL SHALL APPLY AT INTERIOR CONDITIONS WHERE SUPPORT IS REQUIRED FOR MASONRY VENEER AND NO CAVITY BETWEEN THE BACKUP CMU AND THE MASONRY VENEER IS SHOWN BY THE ARCHITECT. THE MASONRY VENEER SHALL BE SUPPORTED WITH LOOSE STEEL ANGLE LINTELS AS FOLLOWS:
2. FOR SPANS UP TO 4'-0": L4 x 3 1/2 x 5/16
3. FOR SPANS UP TO 8'-0": L6 x 3 1/2 x 5/16

TYPICAL STEEL LINTEL SCHEDULE FOR INTERIOR MASONRY VENEER WHERE COLLAR JOINT IS 3/8" WIDE AND MORTAR FILLED

9 TYPICAL CMU LINTEL
S5.01 3/4" = 1'-0"



CORNER (PLAN VIEW) INTERSECTION (PLAN VIEW)

7 TYPICAL CORNER BAR DETAIL
S5.01 3/4" = 1'-0"

NOTE: ALL VERT REINF DISPLACED BY OPENINGS IN CMU WALLS SHALL BE EQUALLY REDISTRIBUTED TO BOTH SIDES OF THE OPENING. REDISTRIBUTED VERT REINF SHALL EXTEND THE FULL HEIGHT OF ALL WALLS. PORTIONS OF WALL ABOVE AND BELOW OPENINGS SHALL BE REINF PER THE TYP CMU REINF DETAIL

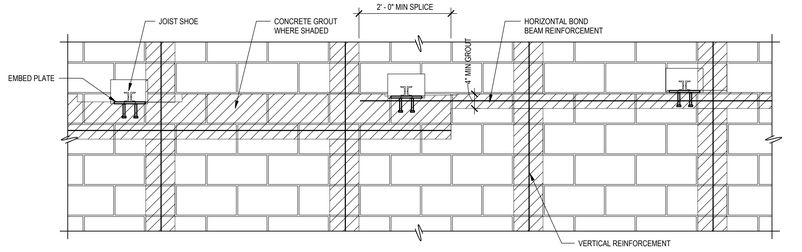
2 TYPICAL CMU REINFORCEMENT DETAIL
S5.01 3/4" = 1'-0"

INTERIOR NON LOAD-BEARING WALL MAXIMUM HEIGHT BASED ON VERTICAL REINFORCEMENT AND WALL THICKNESS				
SPECIFIED WALL VERTICALS REINFORCEMENT	NOMINAL WALL THICKNESS			
	0'-6"	0'-8"	0'-10"	1'-0"
#5 AT 120" OC	10'-0"	14'-0"	16'-0"	18'-0"
#5 AT 96" OC	12'-0"	16'-0"	18'-0"	20'-0"
#5 AT 72" OC	14'-0"	18'-0"	20'-0"	22'-0"
#5 AT 48" OC	16'-0"	20'-0"	22'-0"	26'-0"
#5 AT 32" OC	18'-0"	22'-0"	24'-0"	28'-0"
#5 AT 24" OC	20'-0"	24'-0"	26'-0"	30'-0"
#5 AT 16" OC	22'-0"	26'-0"	28'-0"	32'-0"

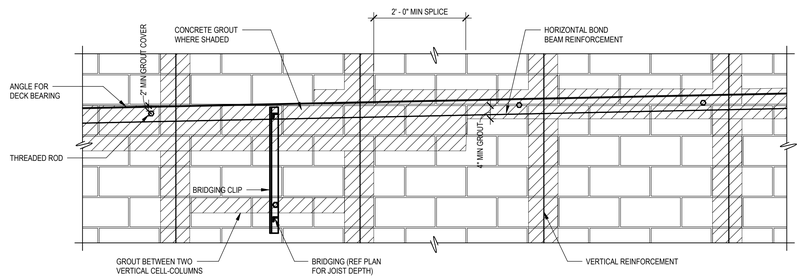
TYPICAL NON LOAD-BEARING CMU WALL REINFORCEMENT SCHEDULE NOTES:

1. WALL HEIGHT IS DEFINED AS VERTICAL DISTANCE BETWEEN LATERAL SUPPORT OF THE WALLS.
2. PROVIDE MIN (1)#5 VERTICAL REINFORCEMENT IN GROUTED FILLED CELL AT CORNERS, INTERSECTIONS, AND FIRST CELL OF EACH END OF WALLS.
3. PROVIDE BEDJOINT REINFORCEMENT AT 16" ON CENTER.
4. PROVIDE PREFABRICATED TEE AND CORNER BEDJOINT REINFORCEMENT TO MATCH BED JOINT REINFORCEMENT SIZE AND SPACING AT CORNERS AND INTERSECTIONS.
5. AT THE CONNECTION OF INTERSECTING WALLS, AT LEAST HALF OF THE MASONRY UNITS SHALL INTERLOCK OR PROVIDE 1/4" x 1-1/2" x 2'-4" LONG Z SHAPE METAL STRAP CONNECTORS AT 48" OC IN GROUTED CELLS.
6. REFER TO NON LOAD-BEARING WALL BRACING DETAILS FOR BRACING AND SUPPORT REQUIREMENTS.
7. PROVIDE BOND BEAMS AT 8'-0" OC AND REINFORCE WITH (1)-#5 BARS FOR 6 " CMU WALLS AND (2)-#5 BARS FOR 8 ", 10", AND 12" CMU WALLS, UNLESS NOTED OTHERWISE.
8. ALL VERTICAL REINFORCEMENT DISPLACED BY OPENINGS SHALL BE EQUALLY REDISTRIBUTED TO BOTH SIDES OF THE OPENING AND SHALL EXTEND FULL HEIGHT OF WALLS.

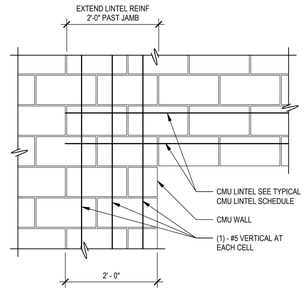
1 TYPICAL NON-LOAD BEARING CMU WALL SCHEDULE
S5.01 12" = 1'-0"



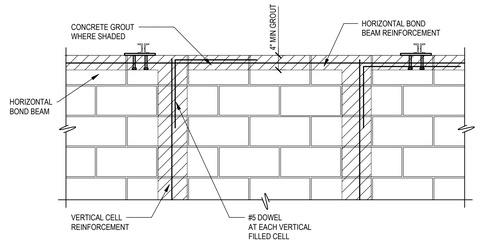
8 TYPICAL SLOPED BOND BEAM FOR JOIST
S5.01 3/4" = 1'-0"



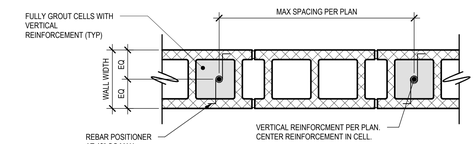
6 TYPICAL SLOPED BOND BEAM FOR ANGLE
S5.01 3/4" = 1'-0"



5 TYPICAL LINTEL JAMB
S5.01 3/4" = 1'-0"

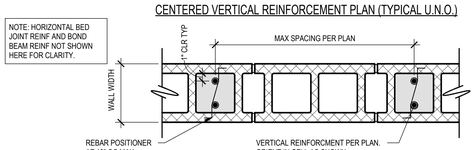


4 TYPICAL TOP BOND BEAM WITHOUT PARAPET
S5.01 3/4" = 1'-0"



CENTERED VERTICAL REINFORCEMENT PLAN (TYPICAL U.N.O.)

NOTE: HORIZONTAL BED JOINT REINF AND BOND BEAM REINF NOT SHOWN HERE FOR CLARITY.



STAGGERED VERTICAL REINFORCEMENT PLAN (SINGLE WYTHE WALL)

3 TYPICAL VERTICAL CMU REINFORCEMENT ORIENTATION DETAIL
S5.01 1 1/2" = 1'-0"

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TYPICAL CMU DETAILS

VOLUME 01

Job No.	Sheet No.
03803-04-01	S5.01
Drawn By: IEG	
Date: 07.15.26	

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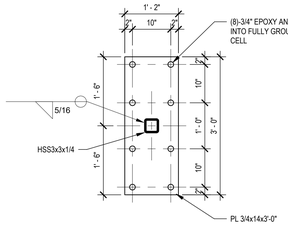


PLATE ELEVATION AT CMU

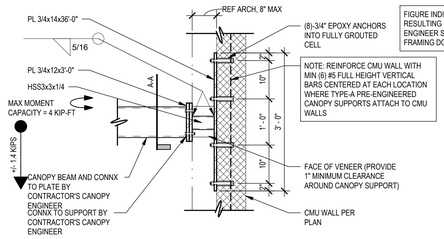
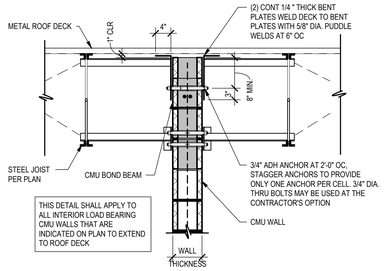


FIGURE INDICATES MAXIMUM PERMISSIBLE CONNECTION LOADS RESULTING FROM ANY COMBINATION OF LOADS. CANOPY ENGINEER SHALL VERIFY THE REACTIONS FROM THE CANOPY FRAMING DO NOT EXCEED THE ALLOWABLE LOADS (TYP)

7 TYPICAL CANTILEVERED CANOPY AT CMU WALL SUPPORT DETAIL
S5.02 3/4" = 1'-0"

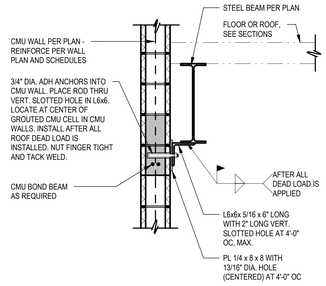


THIS DETAIL SHALL APPLY TO ALL INTERIOR LOAD BEARING CMU WALLS THAT ARE INDICATED ON PLAN TO EXTEND TO ROOF DECK

INTERIOR LOAD BEARING WALL TO ROOF DECK CONNECTION

6 TYPICAL INTERIOR L.B. WALL TO ROOF CONNX
S5.02 3/4" = 1'-0"

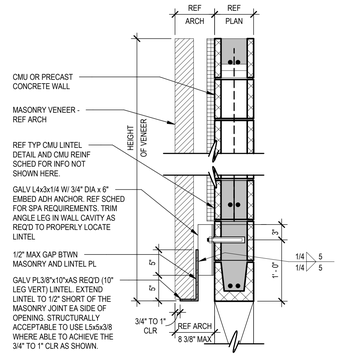
DETAIL NOTES:
1. WHERE REQ'D, IN LIEU OF THE L6X6X5/16 X 0'-6" LONG ANGLE, CONTRACTOR SHALL PROVIDE A 6" LONG X 5/16" THICK BENT PLATE WITH A 6" VERT LEG AND A HORIZ LEG AS REQ'D TO EXTEND WITHIN 1" OF STEEL BEAM CL. WHERE THE CENTER LINE IS 8" FROM THE FACE OF THE CMU WALL, USE AN L8X6X5/16 IN LIEU OF L6X6X5/16. WHERE REQ'D, IN LIEU OF AN L8X6X5/16, A 6" LONG X 5/16" THICK BENT PLATE W/ A 6" VERT LEG AND A HORIZ LEG AS REQ'D TO EXTEND WITHIN 1" OF STL BEAM CL.
2. VERTICALLY SLOTTED HOLES SHALL BE LONG-SLOT HOLES AS DIMENSIONED IN THE NOMINAL HOLE DIMENSIONS TABLE OF THE APPLICABLE AISC STEEL CONSTRUCTION MANUAL.



5 TYPICAL CMU DETAIL - SLOTTED CONNEX
S5.02 3/4" = 1'-0"

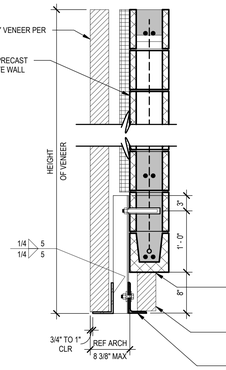
TYPICAL EXTERIOR BOLTED VENEER SUPPORT DETAIL NOTES:
1. THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE SUPPORT OF MASONRY VENEER IS REQUIRED AND THE BACKUP SUPPORT FOR THE MASONRY VENEER IS 8, 10, OR 12" CMU. IT SHALL NOT APPLY TO 4" CMU BACKUP.
2. PROVIDE FULL HEIGHT VERTICAL CONTROL JOINT IN MASONRY VENEER AT EACH SIDE OF OPENING IN THE WALL
3. AT PRECAST CONCRETE WALLS, IT IS STRUCTURALLY ACCEPTABLE TO PROVIDE EMBED PLATES IN THE PRECAST WALL DESIGNED BY THE CONTRACTOR'S PRECAST ENGINEER IN LIEU OF POST-INSTALLED ANCHORS. VERT ANGLE SHALL BE WELDED TO EMBED W/ 3/16" FILLET WELD FULL LENGTH OF EA VERT SIDE IN LIEU OF ADH ANCHOR ATTACHMENT.
4. AT INTERIOR CONDITIONS WHERE SUPPORT IS REQUIRED FOR MASONRY VENEER AND NO CAVITY BETWEEN THE BACKUP CMU/PRECAST CONCRETE AND THE MASONRY VENEER IS SHOWN BY THE ARCHITECT, THE MASONRY VENEER SHALL BE SUPPORTED WITH LOOSE STEEL ANGLE LINTELS AS FOLLOWS:
   A. FOR SPANS UP TO 4'-0": L4 x 3 1/2 x 5/16
   B. FOR SPANS UP TO 8'-0": L6 x 3 1/2 x 5/16
5. AT CMU, CONTRACTOR SHALL COORDINATE LOCATIONS OF ADH ANCHORS W/ STL FABRICATOR SUCH THAT ANCHORS ARE PROPERLY LOCATED ON GROUTED CMU CELLS (PER ADH ANCHOR MANUF INSTRUCTIONS) AND NOT IN HEAD/BED JOINTS.
6. BENT PL AND ANGLES SHALL BE GALVANIZED AFTER ALL CUTTING AND WELDING IS COMPLETE.

ANCHOR SCHEDULE	
SUPPORTED HEIGHT OF VENEER	GALV ADH ANCHOR/ANGLE CONN SPA
UP TO 10'-0"	2'-0" OC
10'-1" TO 15'-0"	1'-4" OC
15'-1" TO 30'-0"	0'-8" OC



VENEER LINTEL AT CMU OR PRECAST CONCRETE WALL

SEE VENEER LINTEL AT CMU OR PRECAST CONCRETE WALL FOR INFO NOT SHOWN HERE.



NOTE: TYPICAL VENEER AT LINTEL SOFFIT DETAIL SHALL BE USED WHERE THE ARCHITECTURAL DRAWINGS SHOW THE MASONRY VENEER EXTENDING BELOW THE BOTTOM OF CMU/PRECAST CONCRETE WALLS AND SUPPORT FOR A MAXIMUM OF 8" OF VENEER IS REQUIRED ON THE BACKSIDE OF THE LINTEL, SUCH AS VESTIBULES.

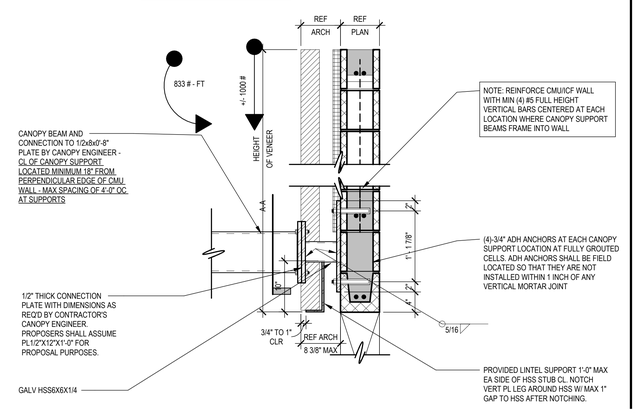
PROVIDE FULL BED JOINT BETWEEN MASONRY VENEER AND CMU/PRECAST CONCRETE WALL

NOTE: INSTALL INSIDE 8" TALL MASONRY VENEER PRIOR TO INSTALLING OUTSIDE VENEER

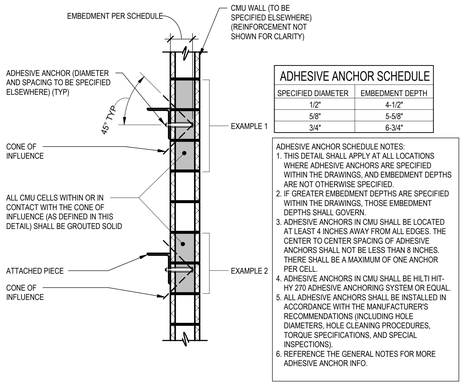
ADDITIONAL GALV L6x3-1/2x3/8 LLV TO BE STOPPED 1/2" SHORT OF MASONRY JOINT ON BOTH SIDES OF OPENING) W/ GALV 1/2" DIA THRU BOLT AT EA VERT ANGLE. VERT L4x3x1/4 CONTS TO BOT OF L3x3x1/4 AS SHOWN.

VENEER LINTEL AT SOFFIT

FIGURE INDICATES ALLOWABLE CONNECTION LOADS RESULTING FROM ANY COMBINATION OF LOADS. CANOPY ENGINEER SHALL VERIFY THE REACTIONS FROM THE CANOPY FRAMING DO NOT EXCEED THE ALLOWABLE LOADS (TYP)



VENEER LINTEL AT CMU OR PRECAST CONCRETE WALL W/ PRE-MANUFACTURED CANOPY



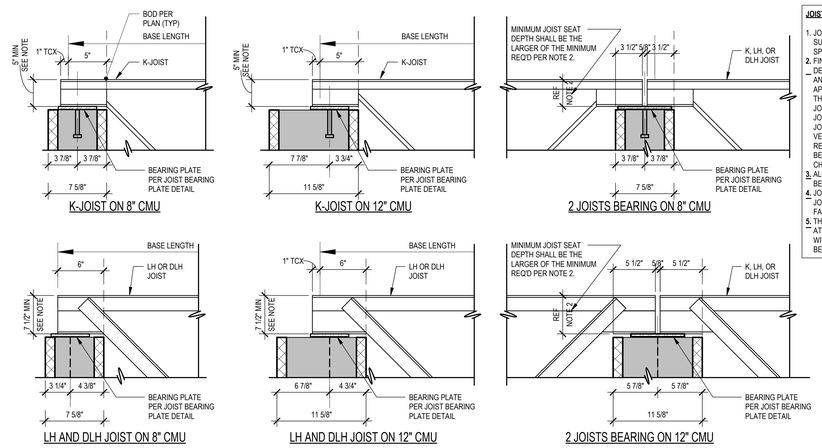
ADHESIVE ANCHOR SCHEDULE	
SPECIFIED DIAMETER	EMBEDMENT DEPTH
1/2"	4-1/2"
5/8"	5-5/8"
3/4"	6-3/4"

ADHESIVE ANCHOR SCHEDULE NOTES:
1. THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE ADHESIVE ANCHORS ARE SPECIFIED WITHIN THE DRAWINGS, AND EMBEDMENT DEPTHS ARE NOT OTHERWISE SPECIFIED.
2. IF GREATER EMBEDMENT DEPTHS ARE SPECIFIED WITHIN THE DRAWINGS, THOSE EMBEDMENT DEPTHS SHALL GOVERN.
3. ADHESIVE ANCHORS IN CMU SHALL BE LOCATED AT LEAST 4 INCHES AWAY FROM ALL EDGES. THE CENTER TO CENTER SPACING OF ADHESIVE ANCHORS SHALL NOT BE LESS THAN 8 INCHES. THERE SHALL BE A MAXIMUM OF ONE ANCHOR PER CELL.
4. ADHESIVE ANCHORS IN CMU SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM OR EQUAL.
5. ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING HOLE DIAMETERS, HOLE CLEANING PROCEDURES, TORQUE SPECIFICATIONS, AND SPECIAL INSPECTIONS).
6. REFERENCE THE GENERAL NOTES FOR MORE ADHESIVE ANCHOR INFO.

4 TYPICAL ADHESIVE ANCHOR DETAIL AT CMU WALLS
S5.02 3/4" = 1'-0"

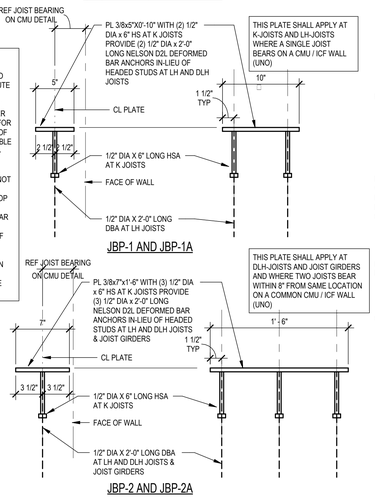
3 MASONRY VENEER SUPPORT DETAIL AT CMU
S5.02 1" = 1'-0"

JOIST BEARING PLATE DETAIL

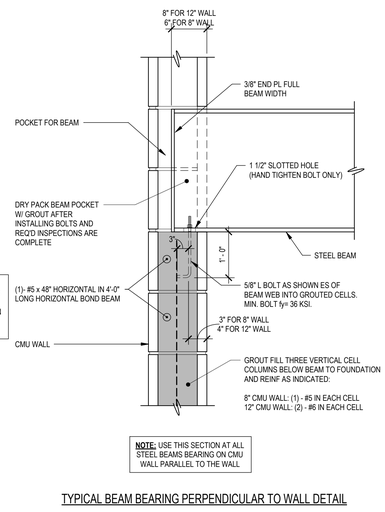


JOIST BEARING NOTES:
1. JOIST SEATS SHALL BE ATTACHED TO SUPPORTS PER STEEL JOIST INSTITUTE SPECIFICATIONS.
2. FINAL JOIST SEAT DEPTHS SHALL BE DETERMINED BY THE JOIST ENGINEER AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE JOISTS. THE MINIMUM PERMISSIBLE JOIST SEAT DEPTH SHALL BE 5" AT K-JOISTS AND 7 1/2" AT LH AND DLH JOISTS. THE JOIST ENGINEER SHALL VERIFY THAT LARGER DEPTHS ARE NOT REQUIRED FOR FABRICATION OR BEARING CONDITIONS, INCLUDING TOP CHORD EXTENSIONS.
3. ALL JOIST BASE LENGTHS MUST CLEAR BEARING DISTANCES SHOWN.
4. JOIST SUPPLIER TO VERIFY WIDTH OF JOIST BEARING PLATES PRIOR TO FABRICATION.
5. THE RESULTANT VERTICAL REACTION AT THE END OF THE JOIST SHALL BE WITHIN 1" FROM THE CENTER OF THE BEARING PLATE.

CMU BEARING PLATE DETAIL



2 TYPICAL JOIST BEARING DETAILS
S5.02 1 1/2" = 1'-0"



1 TYPICAL BEAM BEARING ON CMU WALL DETAILS
S5.02 3/4" = 1'-0"

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Project:
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FOR
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TYPICAL CMU DETAILS

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Job No.	Sheet No.
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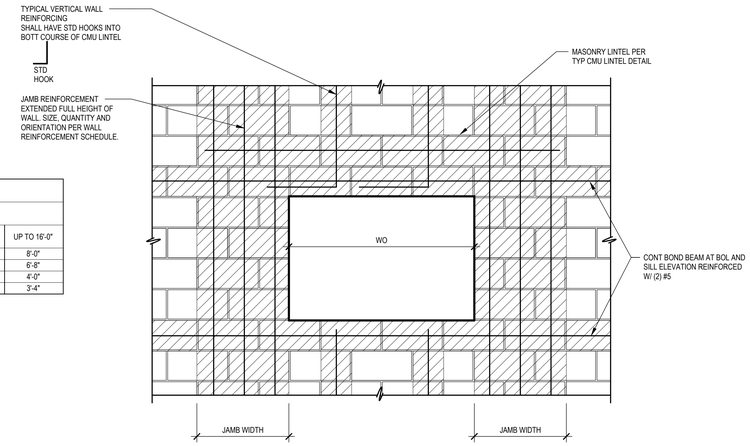
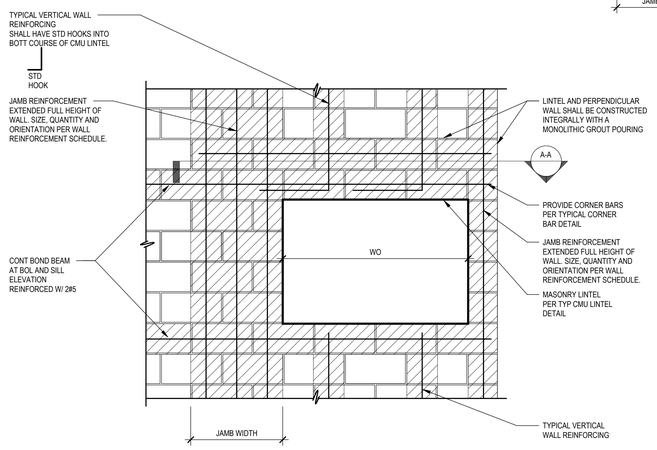
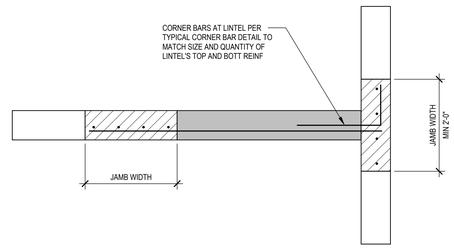
JAMB WIDTH ON EACH SIDE OF OPENING				
WALL REINF. SPACING PER WALL REINF. SCHEDULE	OPENING WIDTH (WO)			
	UP TO 3'-11"	UP TO 7'-11"	UP TO 12'-0"	UP TO 16'-0"
16" OC	3'-4"	4'-0"	6'-8"	8'-0"
24" OC	2'-0"	3'-4"	4'-0"	6'-8"
32" OC	1'-4"	2'-0"	3'-4"	4'-0"
>=40" OC	1'-4"	2'-0"	2'-0"	3'-4"





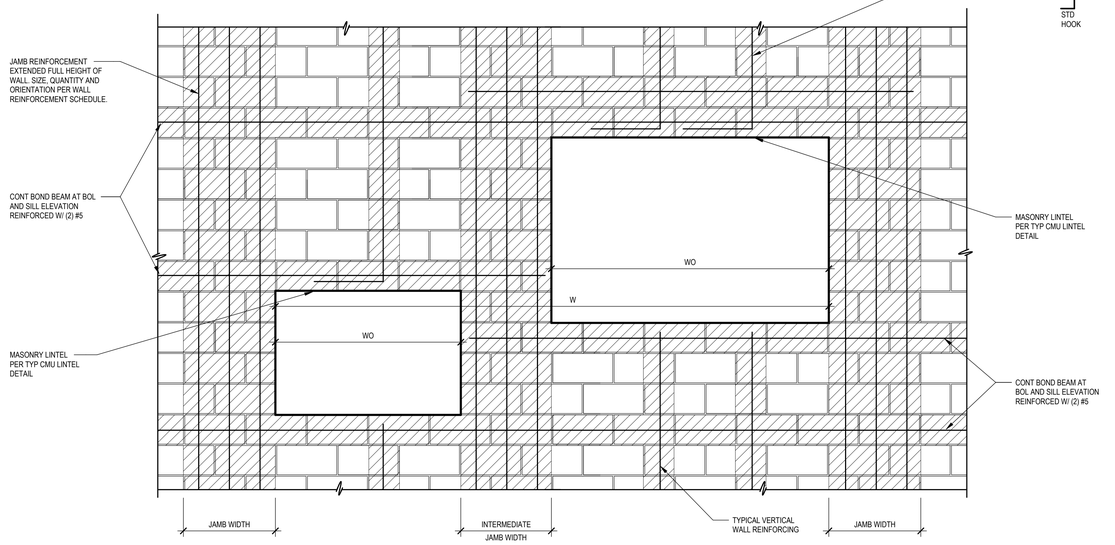


PLAN A-A

JAMB WIDTH ON EACH SIDE OF ADJACENT OPENINGS				
WALL REINF. SPACING PER WALL REINF. SCHEDULE	OPENING WIDTH (WO)			
	UP TO 3'-11"	UP TO 7'-11"	UP TO 12'-0"	UP TO 16'-0"
16" OC	3'-4"	4'-0"	6'-8"	8'-0"
24" OC	2'-0"	3'-4"	4'-0"	6'-8"
32" OC	1'-4"	2'-0"	3'-4"	4'-0"
>=40" OC	1'-4"	2'-0"	2'-0"	3'-4"

ADJACENT OPENINGS INTERMEDIATE JAMB WIDTH				
WALL REINF. SPACING PER WALL REINF. SCHEDULE	ADJACENT OPENINGS COMBINED WIDTH (W)			
	UP TO 7'-11"	UP TO 15'-11"	UP TO 24'-0"	UP TO 32'-0"
16" OC	3'-4"	4'-0"	6'-8"	8'-0"
24" OC	2'-0"	3'-4"	4'-0"	6'-8"
32" OC	1'-4"	2'-0"	3'-4"	4'-0"
>=40" OC	1'-4"	2'-0"	2'-0"	3'-4"

NOTE:
CONTRACTOR SHALL ENSURE THAT NO OPENINGS ARE PLACED THROUGH ANY STRUCTURAL LINTELS.



1 TYPICAL LINTEL JAMBS & BOND BEAMS
S5.03 3/4" = 1'-0"

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FOR
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TOMBALL, TEXAS

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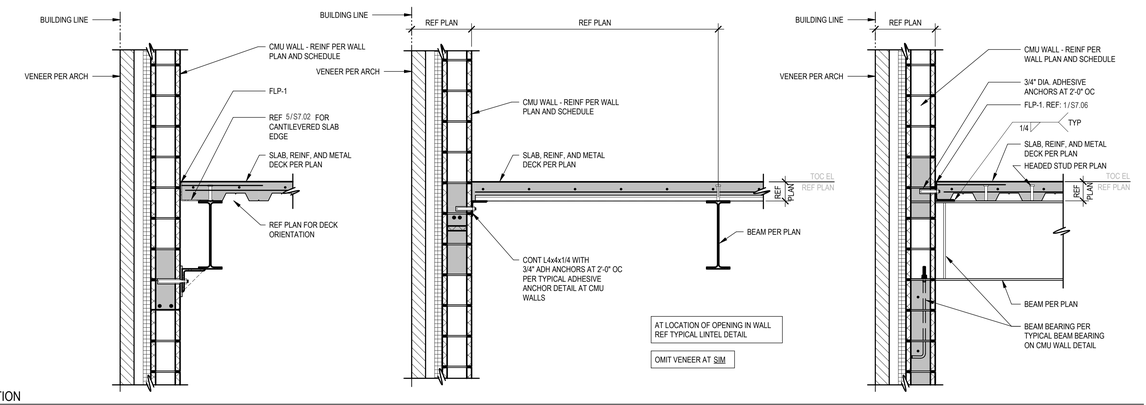

1 SECTION
S5.04 3/4" = 1'-0"

TYPICAL CMU DETAILS

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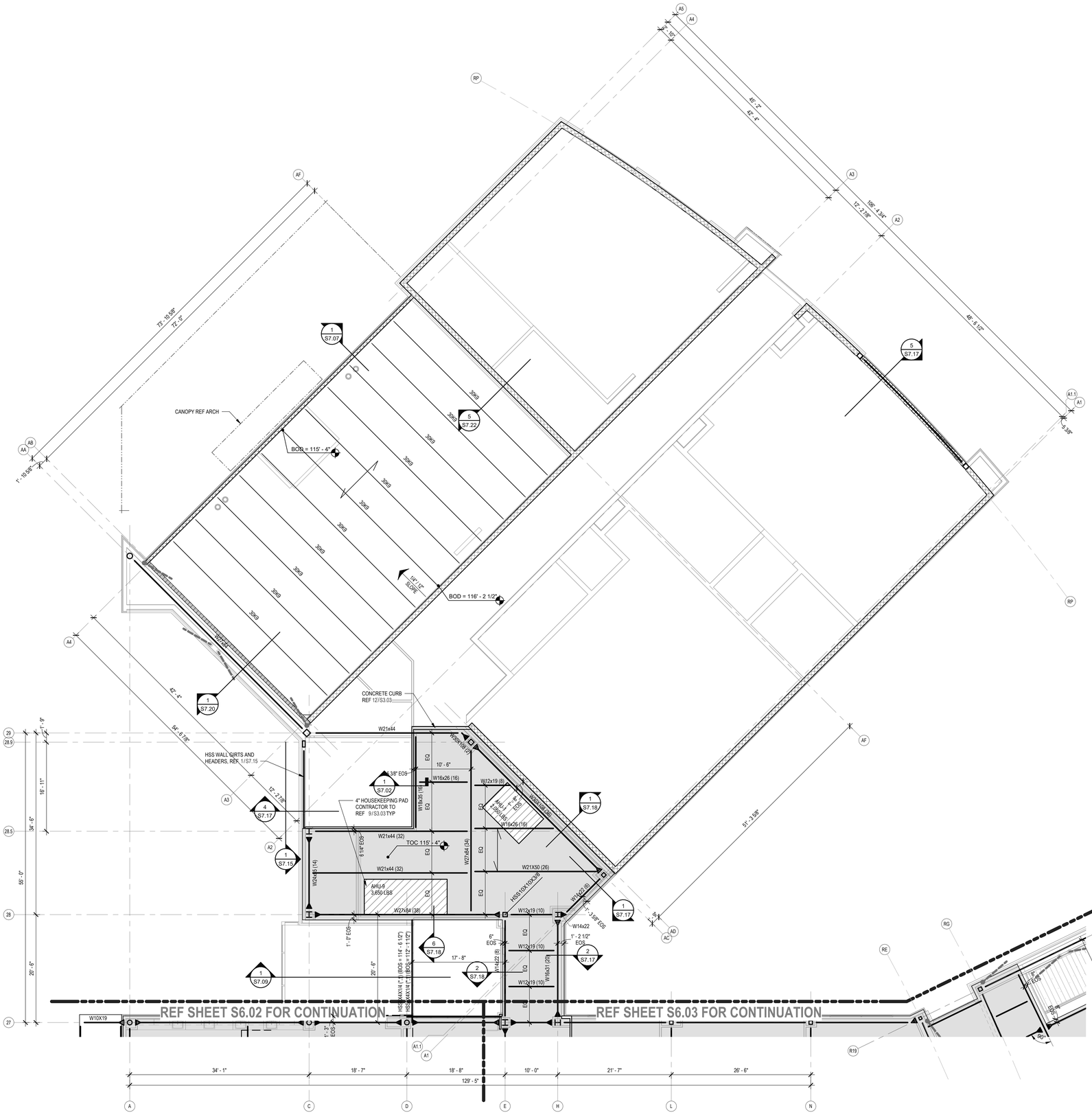
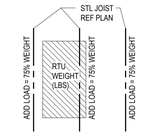


1 FLOOR & LOW ROOF FRAMING - AREA A
S6.01 1/8" = 1'-0"

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

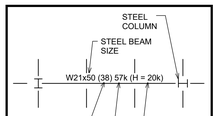
ROOF PLAN NOTES

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0". SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (10'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
7. COMPOSITE SLAB AND DECK IS 3" NW CONC OVER 2VLI 18 GA METAL DECK (5" TOTAL THICKNESS) REINFORCED W/ #3 AT 1'-0" OC EW UNO.
8. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
9. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

FLOOR PLAN NOTES

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = XXX'-X" — BOT OF LINTEL ELEVATION
- TOW = XXX'-X" — TOP OF WALL ELEVATION
- TOC = XXX'-X" — TOP OF CONCRETE ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- FLOOR OPENING
- RTU XXXX# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

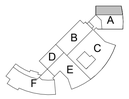
FLOOR FRAMING PLAN LEGEND



STEEL BEAM LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = 107'-4" — BOT OF LINTEL ELEVATION
- TOW = 116'-8" — TOP OF WALL ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

ROOF FRAMING PLAN LEGEND



KEY PLAN - 2ND FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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FLOOR & LOW ROOF FRAMING PLAN - AREA A

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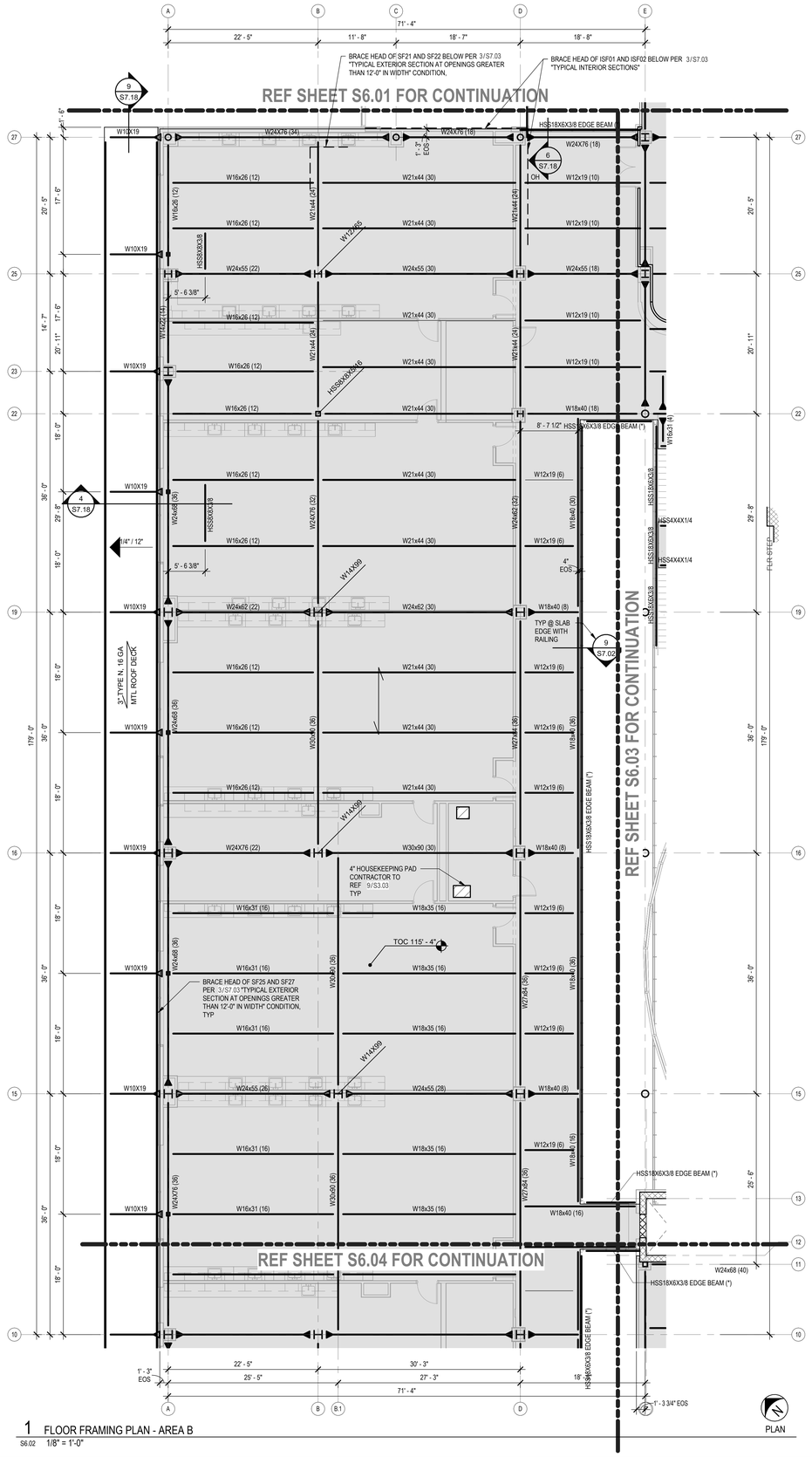
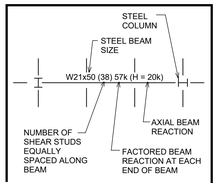


1 FLOOR FRAMING PLAN - AREA B
S6.02 1/8" = 1'-0"

FLOOR FRAMING PLAN LEGEND

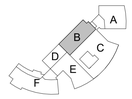
- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = XXX'-X" — BOT OF LINTEL ELEVATION
- TOW = XXX'-X" — TOP OF WALL ELEVATION
- TOC = XXX'-X" — TOP OF CONCRETE ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- FLOOR OPENING
- RTU XXXX# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

STEEL BEAM LEGEND



FLOOR PLAN NOTES

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0". SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (10'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
7. COMPOSITE SLAB AND DECK IS 3" NW CONC OVER 2VLI 18 GA METAL DECK (5" TOTAL THICKNESS) REINFORCED W/ #3 AT 1'-0" OC EW UNO.
8. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
9. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.



KEY PLAN - 2ND FLOOR
N.T.S.

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FLOOR FRAMING PLAN - AREA B

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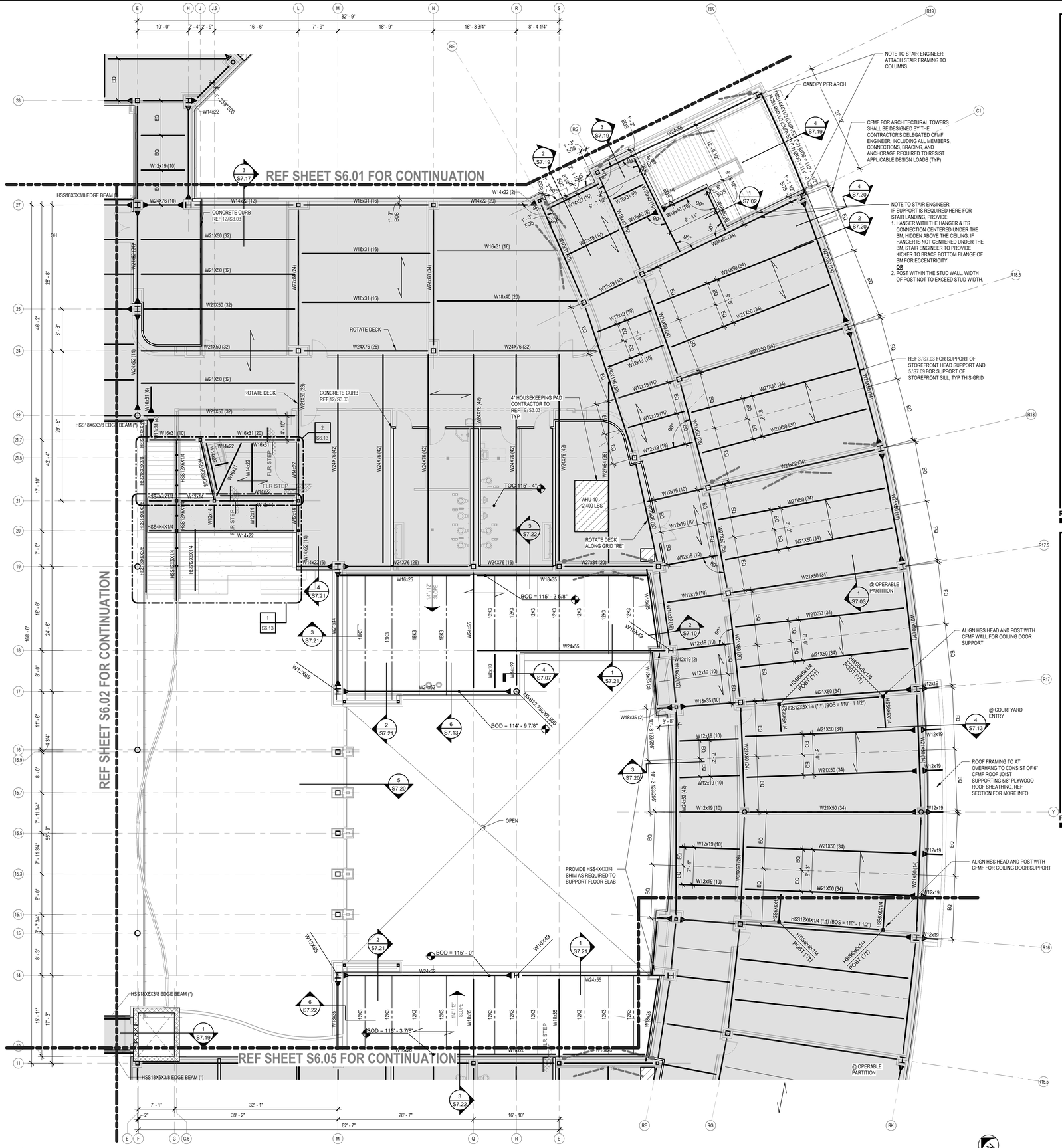


1 FLOOR FRAMING PLAN - AREA C
S6.03 1/8" = 1'-0"

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.
10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0", SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (10'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
7. COMPOSITE SLAB AND DECK IS 3" NW CONC OVER 2VLI 18 GA METAL DECK (5" TOTAL THICKNESS) REINFORCED W/ #3 AT 1'-0" OC EW UNO.
8. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
9. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTORS DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

FLOOR PLAN NOTES

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = XXX'-X" — BOT OF LINTEL ELEVATION
- TOW = XXX'-X" — TOP OF WALL ELEVATION
- TOC = XXX'-X" — TOP OF CONCRETE ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- FLOOR OPENING
- RTU XXXX# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

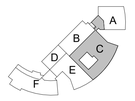
FLOOR FRAMING PLAN LEGEND

STEEL COLUMN; STEEL BEAM SIZE; W21x50 (38) 57k (H = 20k); AXIAL BEAM REACTION; NUMBER OF SHEAR STUDS EQUALLY SPACED ALONG BEAM; FACTORED BEAM REACTION AT EACH END OF BEAM

STEEL BEAM LEGEND

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = 107'-4" — BOT OF LINTEL ELEVATION
- TOW = 116'-8" — TOP OF WALL ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

ROOF FRAMING PLAN LEGEND



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

IEG
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STATE OF TEXAS
R. CRAIG MIKEE
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LICENSED PROFESSIONAL ENGINEER
7.14.2026
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FLOOR & LOW ROOF FRAMING PLAN - AREA C

VOLUME 01

Job No.	Sheet No.
03802-04-01	S6.03
Drawn By: IEG	
Date: 07.15.26	

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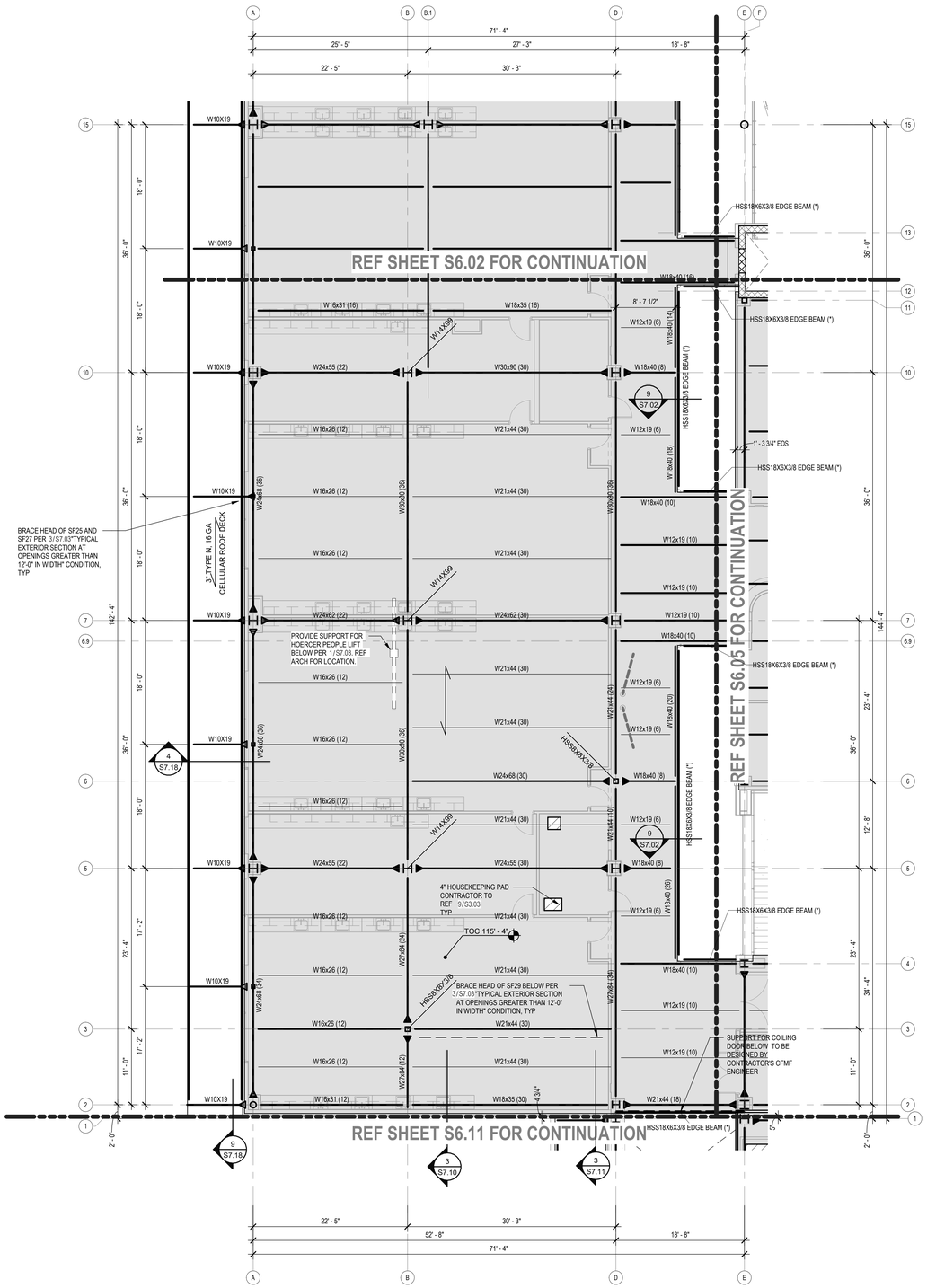
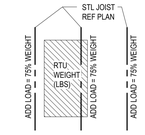


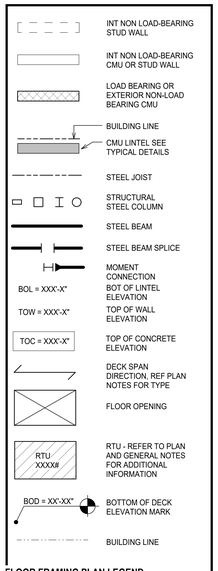
1 FLOOR FRAMING PLAN - AREA D
S6.04 1/8" = 1'-0"

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.

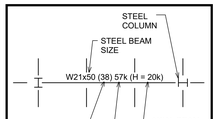


10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES



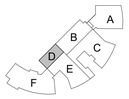
FLOOR FRAMING PLAN LEGEND



STEEL BEAM LEGEND

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0". SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (10'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
7. COMPOSITE SLAB AND DECK IS 3" NW CONC OVER 2VLI 18 GA METAL DECK (5" TOTAL THICKNESS) REINFORCED W/ #3 AT 1'-0" OC EW UNO.
8. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
9. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

FLOOR PLAN NOTES



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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7.14.2026

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FLOOR FRAMING PLAN - AREA D

VOLUME 01

Job No.	Sheet No.
00802-04-01	S6.04
Drawn By: IEG	
Date: 07.15.26	

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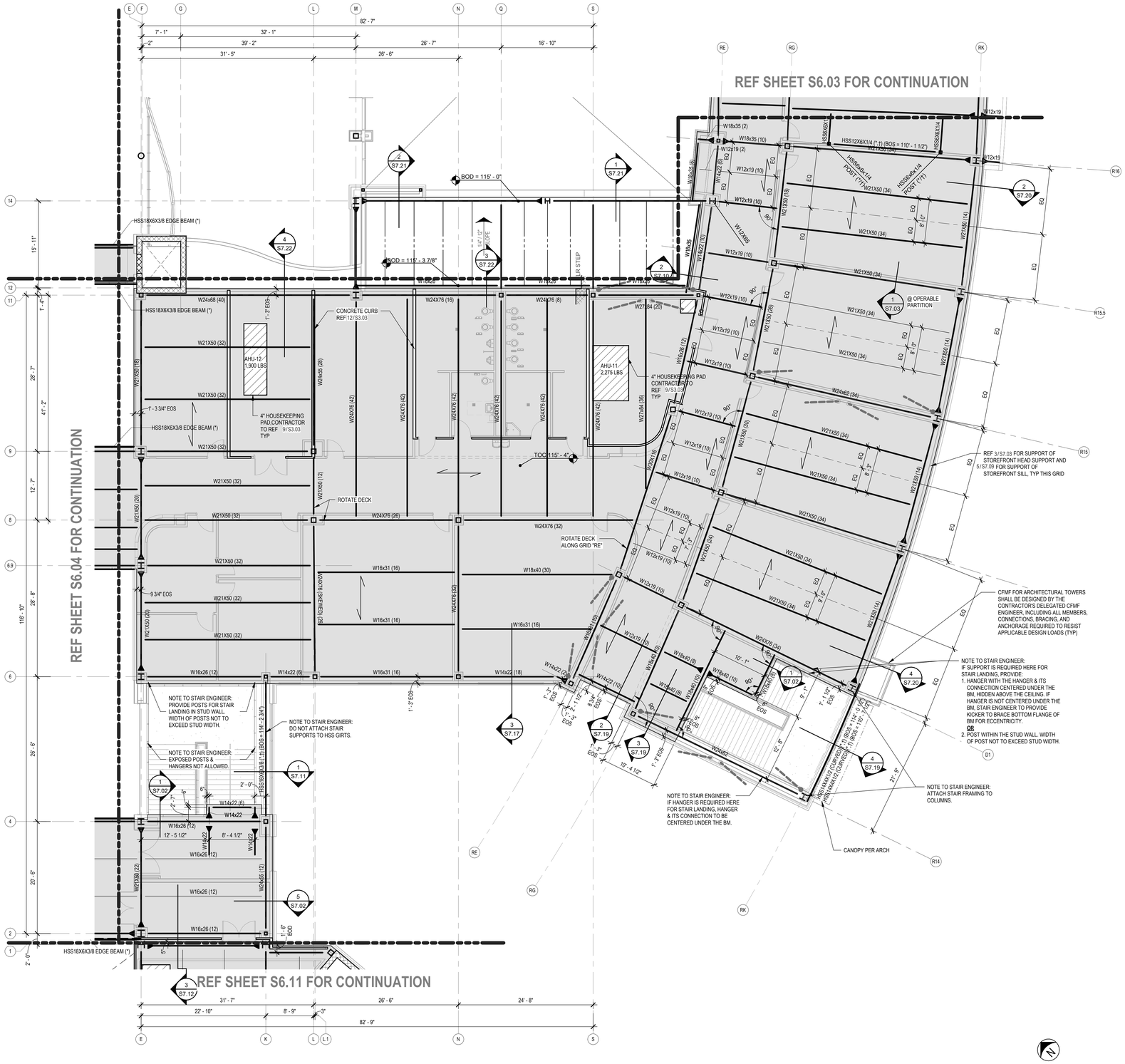
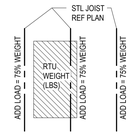


1 FLOOR FRAMING PLAN - AREA E
S6.05 1/8" = 1'-0"

PLAN

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
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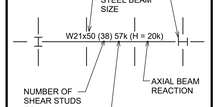
ROOF PLAN NOTES

- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = XXX'-X" — BOT OF LINTEL ELEVATION
- TOW = XXX'-X" — TOP OF WALL ELEVATION
- TOC = XXX'-X" — TOP OF CONCRETE ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- FLOOR OPENING
- RTU XXXX# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

FLOOR FRAMING PLAN LEGEND



STEEL BEAM LEGEND

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0". SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
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6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
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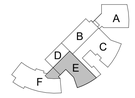
FLOOR PLAN NOTES



KEY PLAN - 1ST FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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FLOOR FRAMING PLAN - AREA E

VOLUME 01

Job No. 00802-04-01	Sheet No. S6.05
Drawn By: IEG	
Date: 07.15.26	

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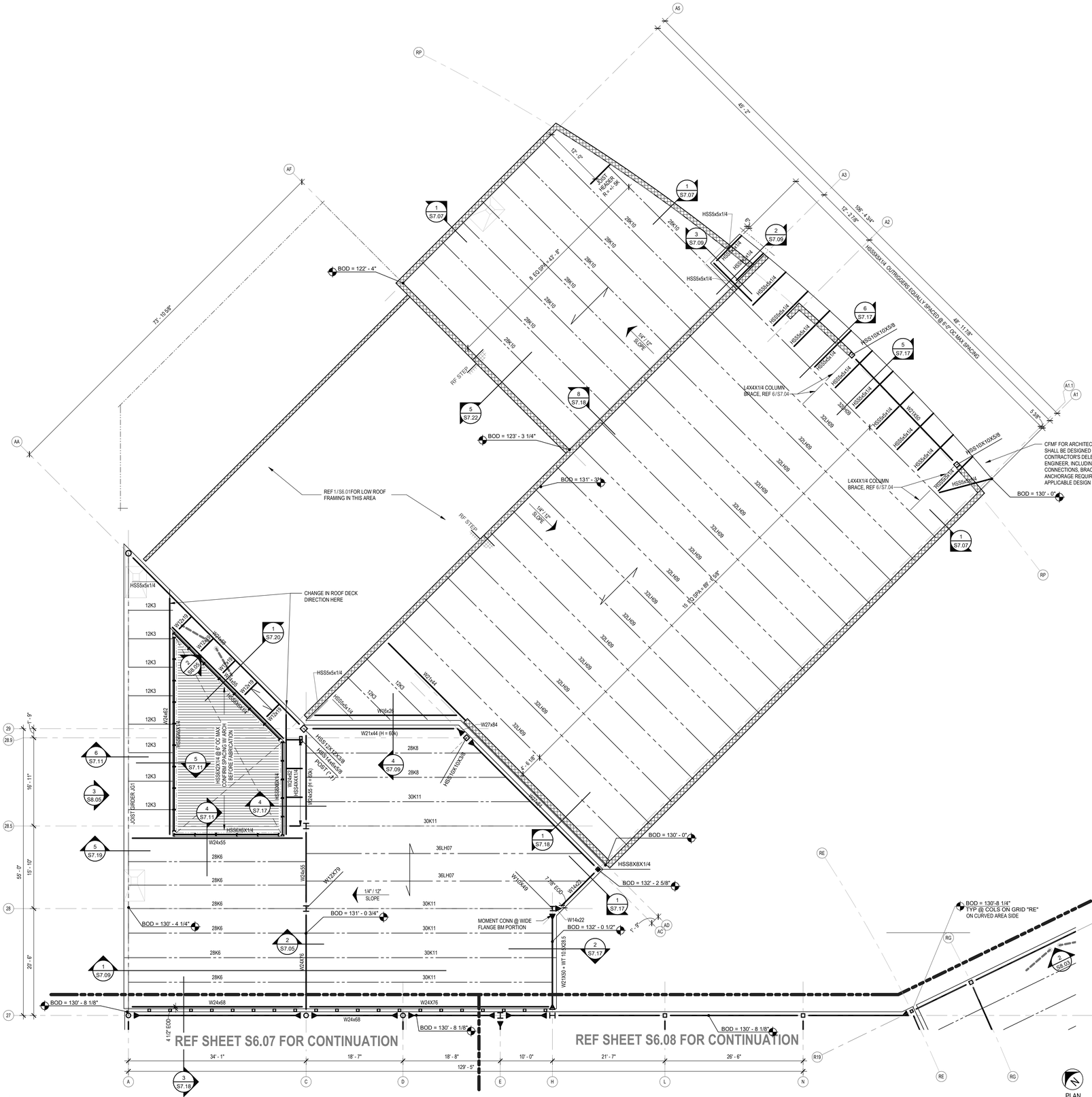
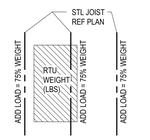


1 ROOF FRAMING PLAN - AREA A
S6.06 1/8" = 1'-0"

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
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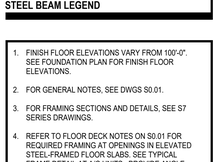
ROOF PLAN NOTES

INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
STEEL JOIST
STRUCTURAL STEEL COLUMN
STEEL BEAM
STEEL BEAM SPLICE
MOMENT CONNECTION
BOL = 107'-4" — BOT OF LINTEL ELEVATION
TOW = 116'-8" — TOP OF WALL ELEVATION
DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
BUILDING LINE

ROOF FRAMING PLAN LEGEND



STEEL BEAM LEGEND

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0". SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
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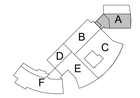
FLOOR PLAN NOTES



KEY PLAN - 2ND FLOOR
N.T.S.

Date
Revision /

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Project:

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ROOF FRAMING PLAN - AREA A

VOLUME 01

Job No.	Sheet No.
00802-04-01	S6.06
Drawn By: IEG	
Date: 07.15.26	

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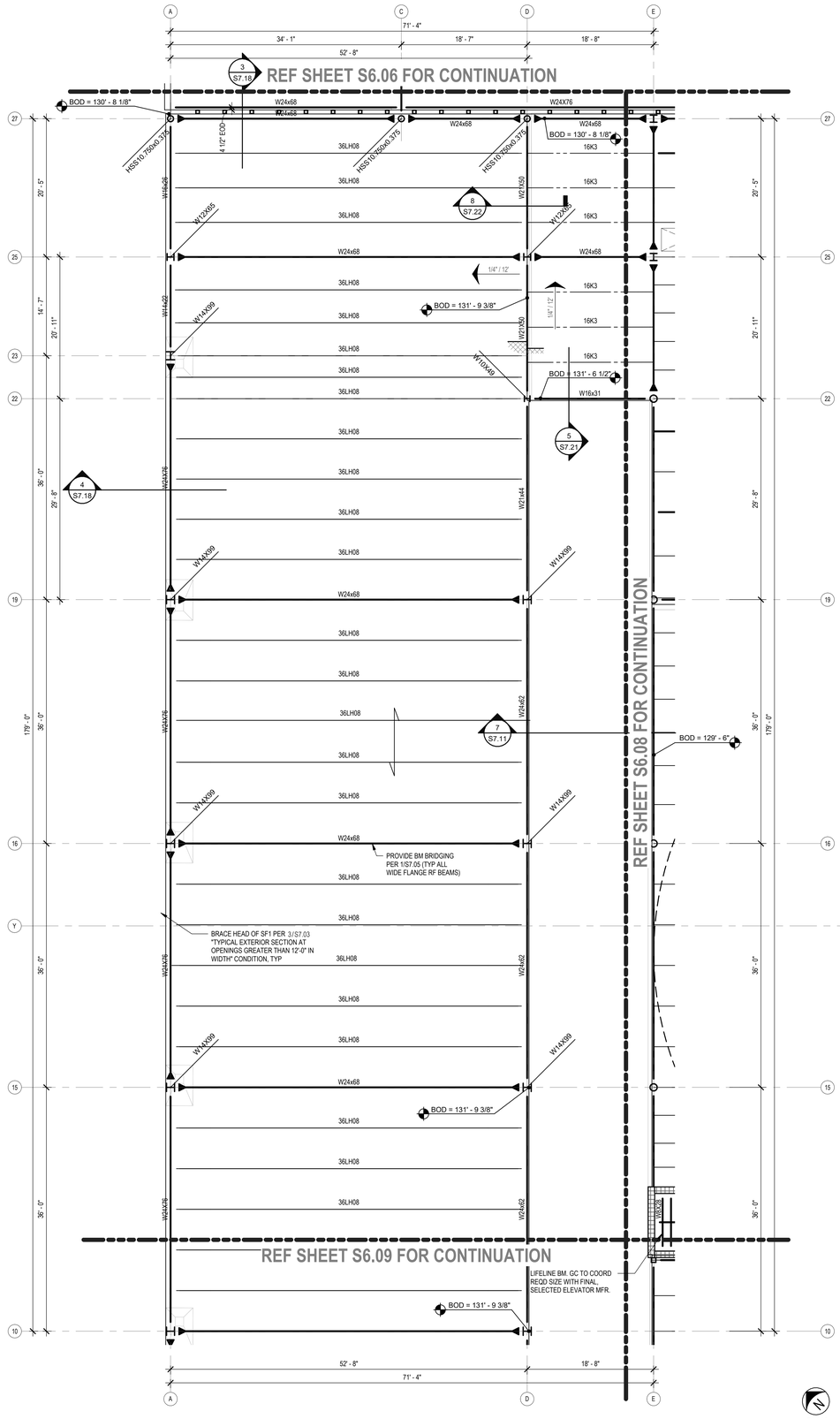
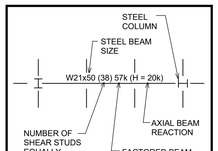


1 ROOF FRAMING PLAN - AREA B
S6.07 1/8" = 1'-0"

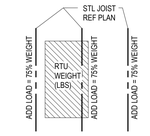
INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
STEEL JOIST
STRUCTURAL STEEL COLUMN
STEEL BEAM
STEEL BEAM SPLICE
MOMENT CONNECTION
BOL = 107'-4" — BOT OF LINTEL ELEVATION
TOW = 116'-8" — TOP OF WALL ELEVATION
DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
BUILDING LINE

ROOF FRAMING PLAN LEGEND



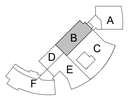
STEEL BEAM LEGEND

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DPE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES



KEY PLAN - 2ND FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

IEG
Innovative Engineering Group
www.iegengineers.com
817.410.2658
TBPELS Firm No. F-5923

STATE OF TEXAS
R. CRAIG McKEE
111569
LICENSED PROFESSIONAL ENGINEER
7.14.2026
F-1252
F-5923

Huckabee
www.huckabee-inc.com
800.687.1229

ROOF FRAMING PLAN - AREA B

VOLUME 01

Job No. 00802-04-01	Sheet No. S6.07
Drawn By: IEG	
Date: 07.15.26	

7/14/2026 5:29:27 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball IS Replacement_STRUC_V25.rvt

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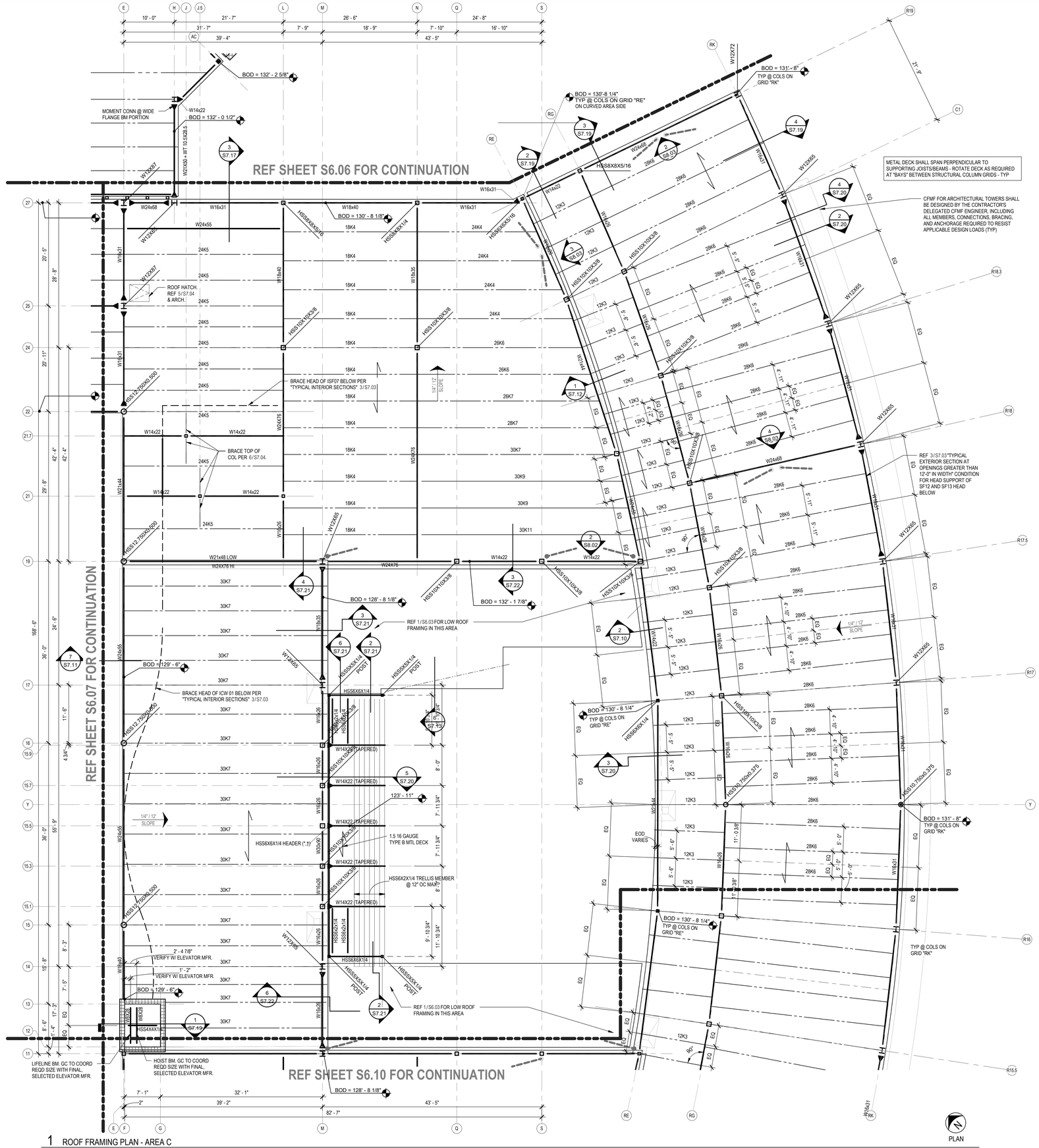
REF SHEET S6.06 FOR CONTINUATION
REF SHEET S6.07 FOR CONTINUATION
REF SHEET S6.10 FOR CONTINUATION
BOD = 132' - 2 5/8"
MOMENT CONN @ WIDE FLANGE BM PORTION
W14x22
BOD = 132' - 0 1/2"
W21x50 - 4(T 10.5X58.5
BOD = 130'-8 1/4" TYP @ COLS ON GRID "RE" ON CURVED AREA SIDE
BOD = 131' - 8" TYP @ COLS ON GRID "RK"
HSS8X8X5/16
W24x68
W16x31
W24x55
W12X65
W12X87
ROOF HATCH. REF 5/S7.04 & ARCH.
W18x40
BOD = 130' - 8 1/8"
HSS8X8X5/16
HSS8X8X1/4
W18x35
W21x44
W24X76
W14x22
BRACE TOP OF COL PER 6/S7.04.
HSS12.750X0.500
W21x48 LOW
W24X76 HI
W12X65
BRACE HEAD OF ISF07 BELOW PER "TYPICAL INTERIOR SECTIONS" 3/S7.03
1/4" / 12" SLOPE
HSS10X10X3/8
W12X72
W12X87
W16x31
W16x26
W16x36
W16x67
W16x89
W16x100
W16x57
W16x45
W16x50
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W16x83
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W18x60
W18x71
W21x93
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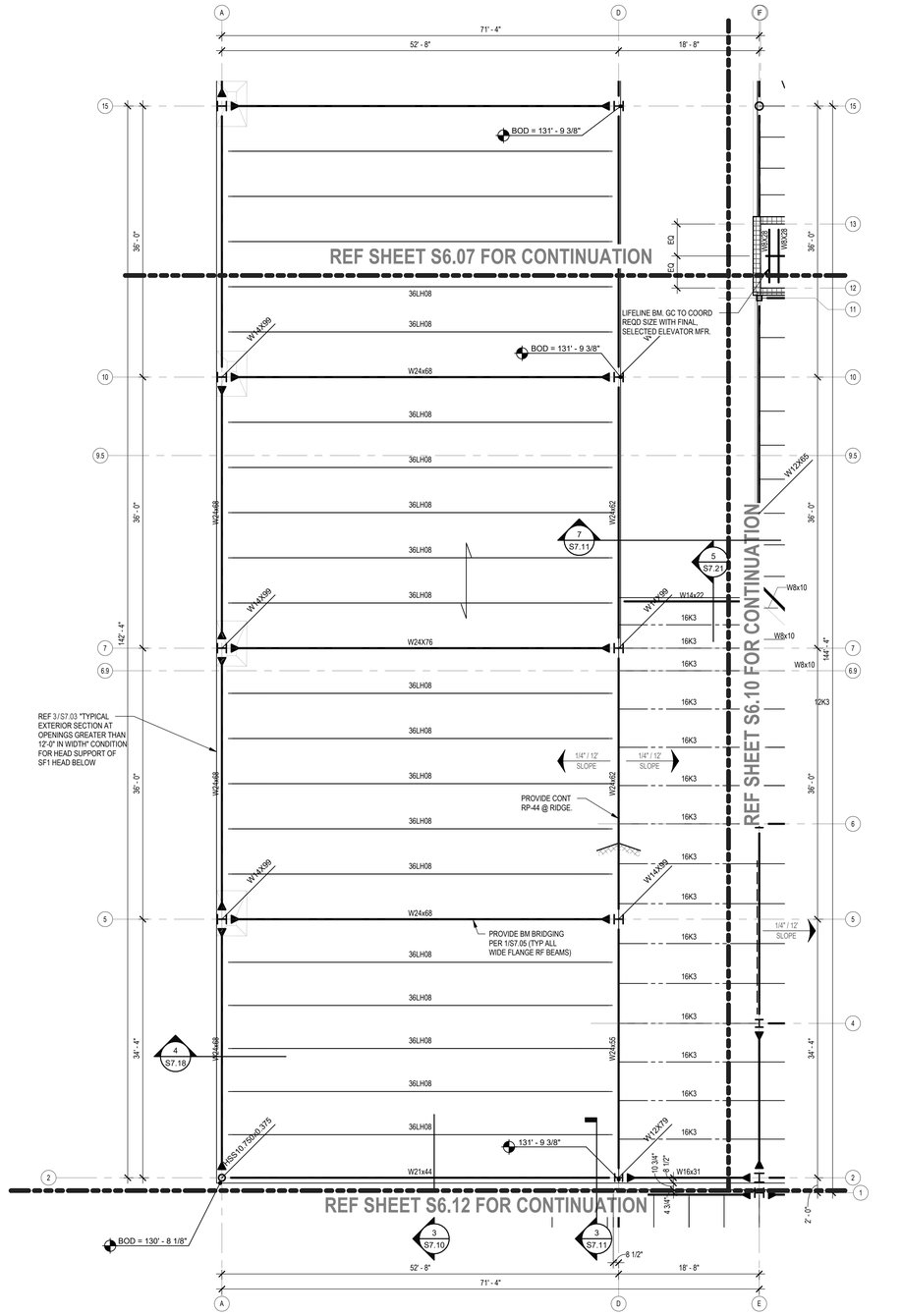
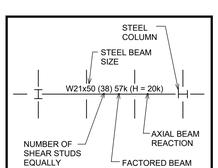


1 ROOF FRAMING PLAN - AREA D
S6.09 1/8" = 1'-0"

PLAN

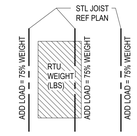
INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
STEEL JOIST
STRUCTURAL STEEL COLUMN
STEEL BEAM
STEEL BEAM SPLICE
MOMENT CONNECTION
BOL = 107'-4" — BOT OF LINTEL ELEVATION
TOW = 116'-8" — TOP OF WALL ELEVATION
DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
BUILDING LINE

ROOF FRAMING PLAN LEGEND



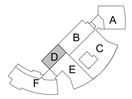
STEEL BEAM LEGEND

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES



KEY PLAN - 2ND FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

IEG
Innovative Engineering Group
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TBPELS Firm No. F-5923
STATE OF TEXAS
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PROFESSIONAL ENGINEER
7.14.2026
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ROOF FRAMING PLAN - AREA D

VOLUME 01

Job No. 00802-04-01	Sheet No. S6.09
Drawn By: IEG	
Date: 07.15.26	

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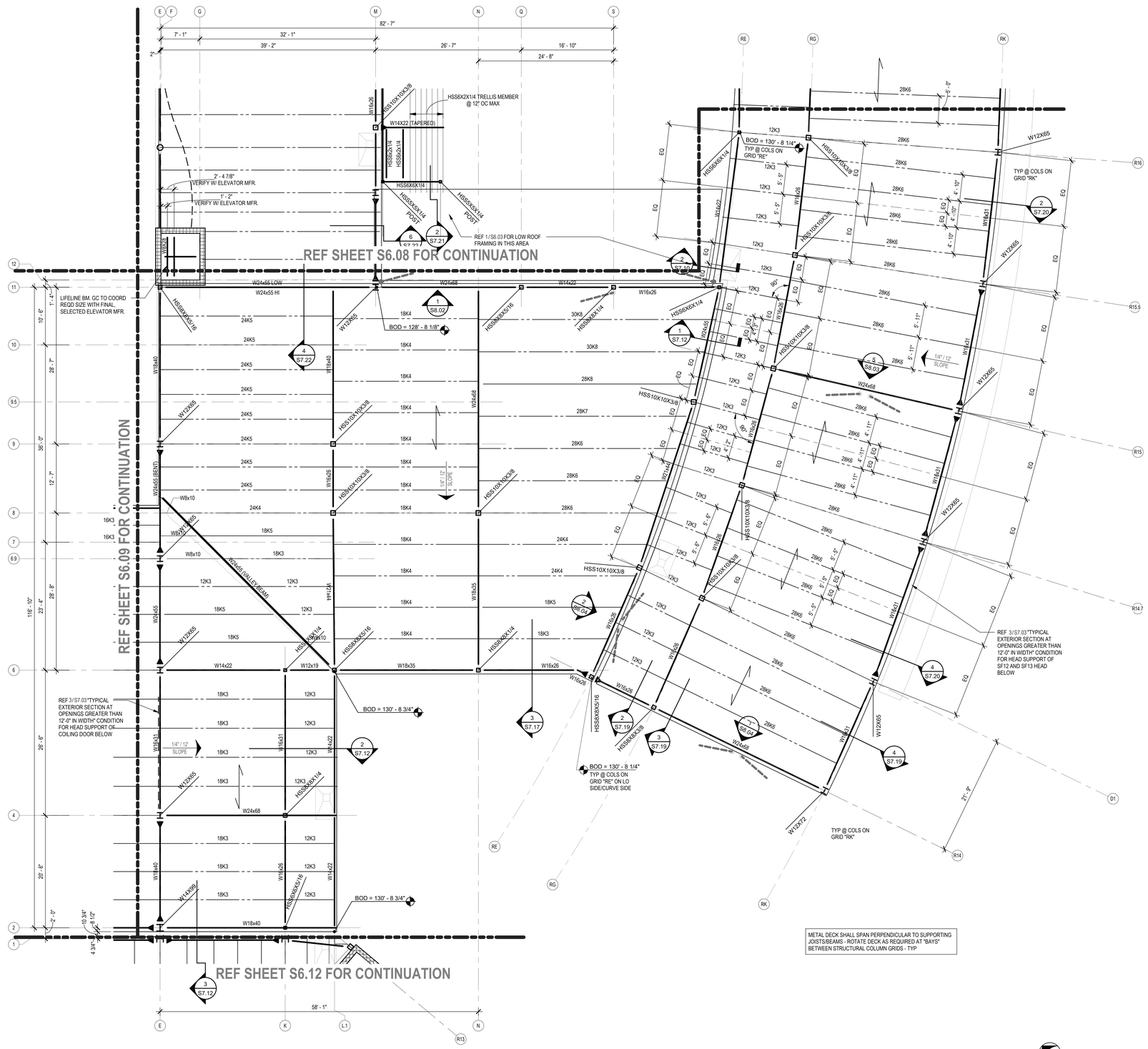

1 ROOF FRAMING PLAN - AREA E
S6.10 1/8" = 1'-0"

PLAN

INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
STEEL JOIST
STRUCTURAL STEEL COLUMN
STEEL BEAM
STEEL BEAM SPLICE
MOMENT CONNECTION
BOL = 107'-4" — BOT OF LINTEL ELEVATION
TOW = 116'-8" — TOP OF WALL ELEVATION
DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
RTU 1000# — RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
BUILDING LINE

ROOF FRAMING PLAN LEGEND

STEEL COLUMN
STEEL BEAM SIZE
W21x50 (38) 57k (H = 20k)
NUMBER OF SHEAR STUDS EQUALLY SPACED ALONG BEAM
AXIAL BEAM REACTION
FACTORED BEAM REACTION AT EACH END OF BEAM

STEEL BEAM LEGEND

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
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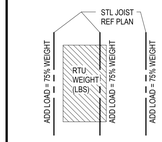
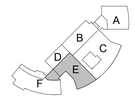
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING.
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES



KEY PLAN - 2ND FLOOR
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

IEG
Innovative Engineering Group
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TBPELS Firm No. F-5923
STATE OF TEXAS
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7.14.2026
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ROOF FRAMING PLAN - AREA E	VOLUME 01
Job No. 00802-04-01	Sheet No. S6.10
Drawn By: IEG	
Date: 07.15.26	

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Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball IS Replacement_STRUC_V25.rvt

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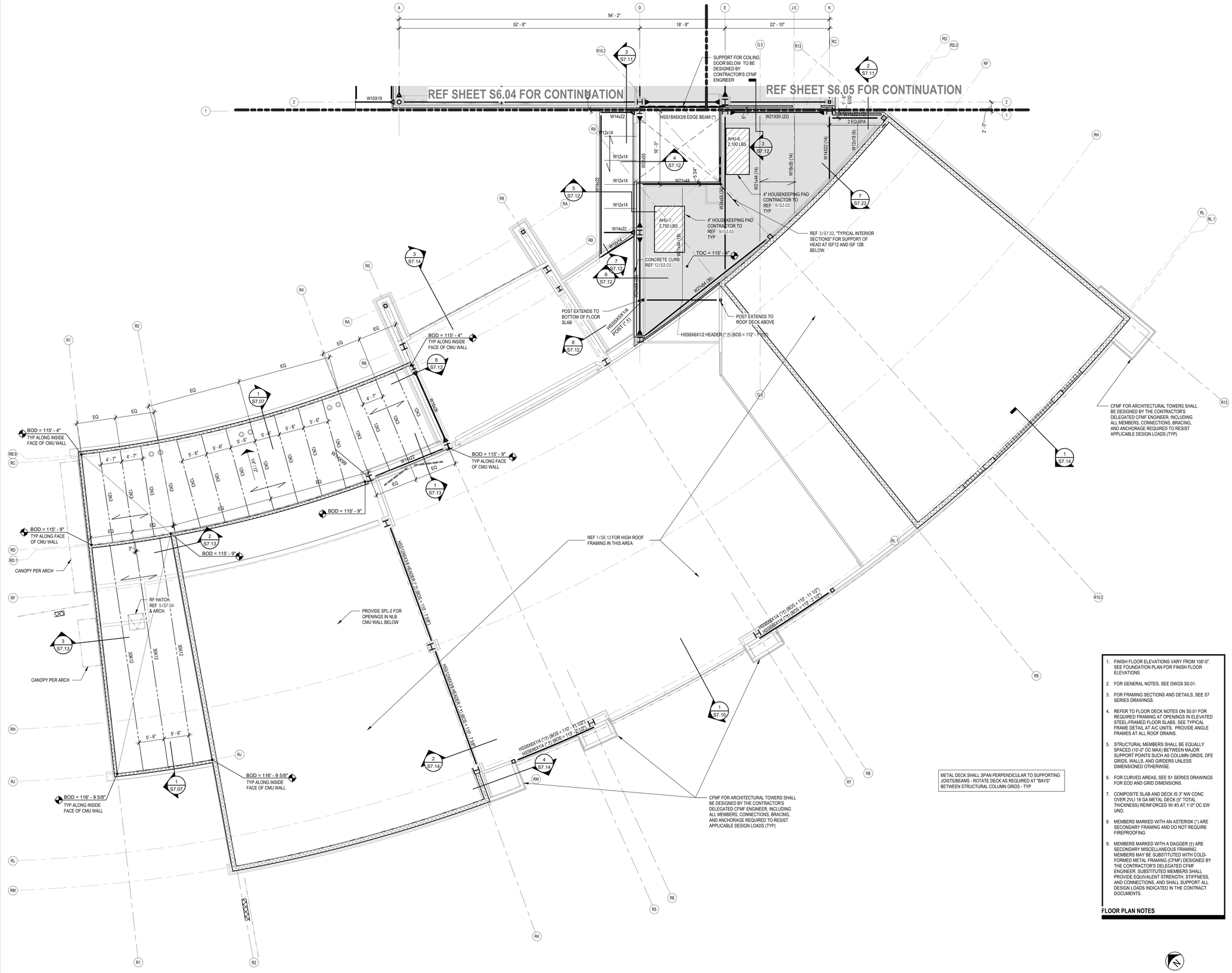
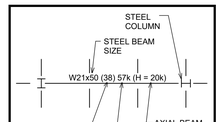


1 LOW ROOF FRAMING PLAN - AREA F
S6.11 1/8" = 1'-0"

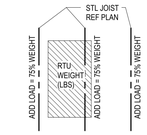
INT NON LOAD-BEARING STUD WALL
INT NON LOAD-BEARING CMU OR STUD WALL
LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
BUILDING LINE
CMU LINTEL SEE TYPICAL DETAILS
STEEL JOIST
STRUCTURAL STEEL COLUMN
STEEL BEAM
STEEL BEAM SPLICE
MOMENT CONNECTION
BOL = XXX'-X" BOT OF LINTEL ELEVATION
TOW = XXX'-X" TOP OF WALL ELEVATION
TOC = XXX'-X" TOP OF CONCRETE ELEVATION
DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
FLOOR OPENING
RTU XXXX# RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
BOD = XX'-XX" BOTTOM OF DECK ELEVATION MARK
BUILDING LINE

FLOOR FRAMING PLAN LEGEND



STEEL BEAM LEGEND

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.

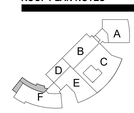


10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

ROOF PLAN NOTES

1. FINISH FLOOR ELEVATIONS VARY FROM 100'-0", SEE FOUNDATION PLAN FOR FINISH FLOOR ELEVATIONS.
2. FOR GENERAL NOTES, SEE DWGS S0.01.
3. FOR FRAMING SECTIONS AND DETAILS, SEE S7 SERIES DRAWINGS.
4. REFER TO FLOOR DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN ELEVATED STEEL-FRAMED FLOOR SLABS. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
5. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (10'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
6. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
7. COMPOSITE SLAB AND DECK IS 3" NW CONC OVER 2VLI 18 GA METAL DECK (5" TOTAL THICKNESS) REINFORCED W/ #3 AT 1'-0" OC EW UNO.
8. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING
9. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.

FLOOR PLAN NOTES



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN

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LOW ROOF FRAMING PLAN - AREA F

VOLUME 01

Job No.	Sheet No.
20802-04-01	S6.11
Drawn By: IEG	
Date: 07.15.26	

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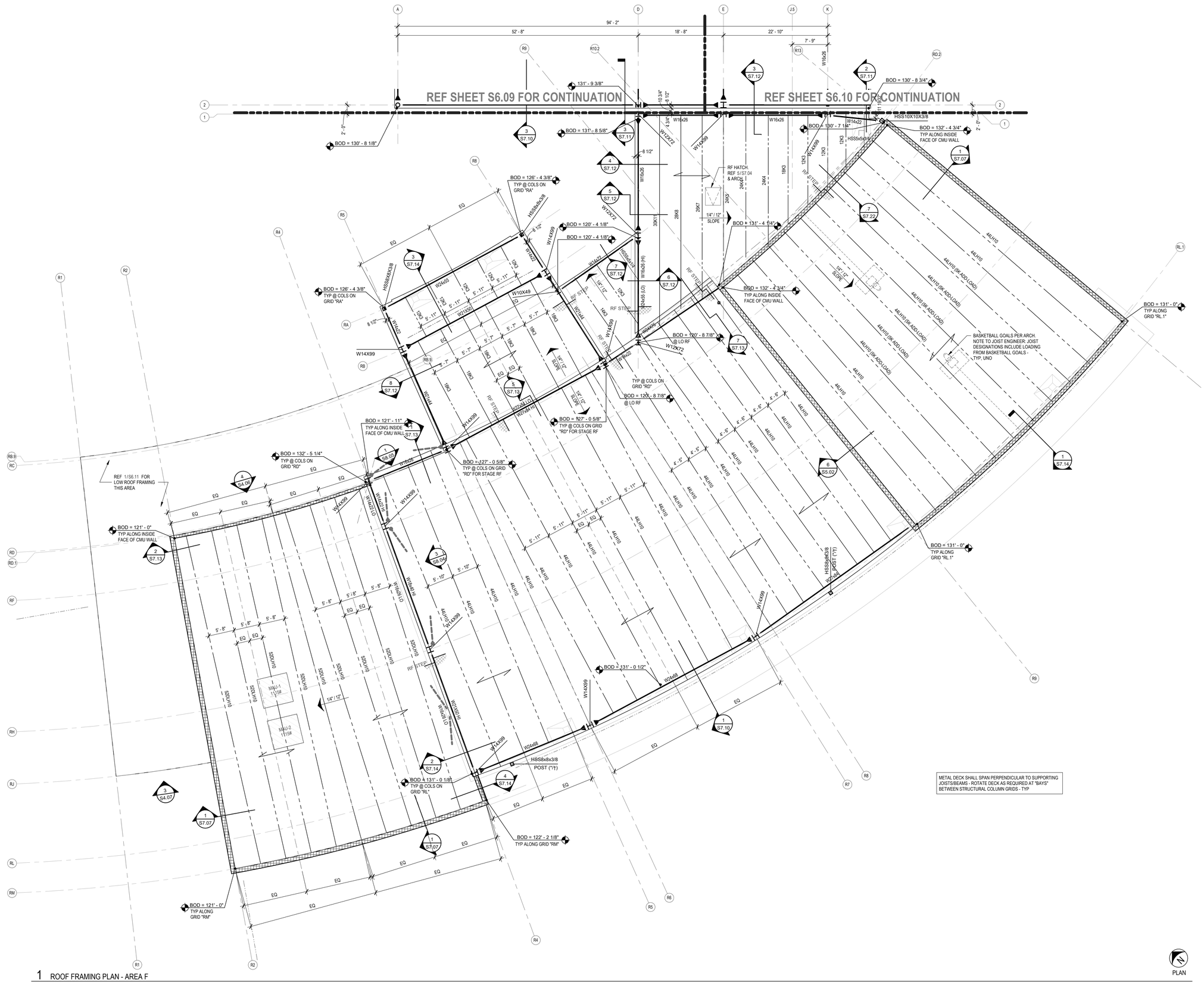


1 ROOF FRAMING PLAN - AREA F

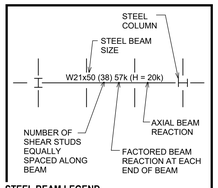
S6.12 1/8" = 1'-0"

PLAN

ROOF FRAMING PLAN LEGEND

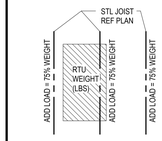
- INT NON LOAD-BEARING STUD WALL
- INT NON LOAD-BEARING CMU OR STUD WALL
- LOAD BEARING OR EXTERIOR NON-LOAD BEARING CMU
- BUILDING LINE
- CMU LINTEL SEE TYPICAL DETAILS
- STEEL JOIST
- STRUCTURAL STEEL COLUMN
- STEEL BEAM
- STEEL BEAM SPLICE
- MOMENT CONNECTION
- BOL = 107'-4" — BOT OF LINTEL ELEVATION
- TOW = 116'-8" — TOP OF WALL ELEVATION
- DECK SPAN DIRECTION, REF PLAN NOTES FOR TYPE
- RTU - REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION
- BOD = XX'-XX" — BOTTOM OF DECK ELEVATION MARK
- BUILDING LINE

STEEL BEAM LEGEND

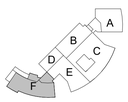


ROOF PLAN NOTES

1. FOR GENERAL NOTES, REF DWGS S0.01.
2. BRIDGING FOR ROOF JOISTS IS NOT SHOWN ON THIS PLAN FOR CLARITY. BRIDGING FOR ROOF JOISTS SHALL BE PROVIDED FOR ALL JOISTS PER SJI SPECIFICATIONS.
3. REFERENCE CMU WALL PLAN FOR BOTTOM OF LINTEL ELEVATIONS AT LOAD BEARING WALLS.
4. REFERENCE CMU WALL PLAN FOR ALL TOP OF WALL ELEVATIONS.
5. REF APPROVED MECHANICAL SHOP DRAWINGS FOR EXACT LOCATIONS OF RTU UNITS.
6. REFER TO ROOF DECK NOTES ON S0.01 FOR REQUIRED FRAMING AT OPENINGS IN METAL ROOF DECK. SEE TYPICAL FRAME DETAIL AT A/C UNITS. PROVIDE ANGLE FRAMES AT ALL ROOF DRAINS.
7. STRUCTURAL MEMBERS SHALL BE EQUALLY SPACED (6'-0" OC MAX) BETWEEN MAJOR SUPPORT POINTS SUCH AS COLUMN GRIDS, DFE GRIDS, WALLS, AND GIRDERS UNLESS DIMENSIONED OTHERWISE.
8. JOIST SEAT DEPTHS FOR OPEN WEB STEEL JOIST SHALL BE AS DETERMINED BY THE CONTRACTOR 'S JOIST ENGINEER WITH THE FOLLOWING MINIMUM DEPTHS (UNO IN DETAILS):
   A. K-SERIES JOIST: 5 INCHES
   B. LH-SERIES JOIST: 7 ½ INCHES
   C. DLH-SERIES JOIST: 7 ½ INCHES
9. JOISTS SUPPORTING MECHANICAL EQUIPMENT (RTU, ETC) SHALL HAVE ADDITIONAL "ADD LOAD" APPLIED TO THE JOIST DESIGN PER BELOW PARTIAL PLAN. VERIFY WEIGHT WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO CONSTRUCTION.



10. FOR CURVED AREAS, SEE S1 SERIES DRAWINGS FOR EOD AND GRID DIMENSIONS.
11. ROOF DECK IS 1.5B GA 20 METAL DECK UNO - TYP.
12. AT TYPICAL "WEDGE" BAY IN CURVED AREAS, LAYOUT PURLINS PER 2/S1.04 - TYP.
13. MEMBERS MARKED WITH AN ASTERISK (*) ARE SECONDARY FRAMING AND DO NOT REQUIRE FIREPROOFING.
14. MEMBERS MARKED WITH A DAGGER (†) ARE SECONDARY MISCELLANEOUS FRAMING. MEMBERS MAY BE SUBSTITUTED WITH COLD-FORMED METAL FRAMING (CFMF) DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER. SUBSTITUTED MEMBERS SHALL PROVIDE EQUIVALENT STRENGTH, STIFFNESS, AND CONNECTIONS, AND SHALL SUPPORT ALL DESIGN LOADS INDICATED IN THE CONTRACT DOCUMENTS.



KEY PLAN - 2ND FLOOR

N.T.S.

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Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

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HIGH ROOF FRAMING PLAN - AREA F

VOLUME 01

Job No. 00802-04-01	Sheet No. S6.12
Drawn By: IEG	
Date: 07.15.26	

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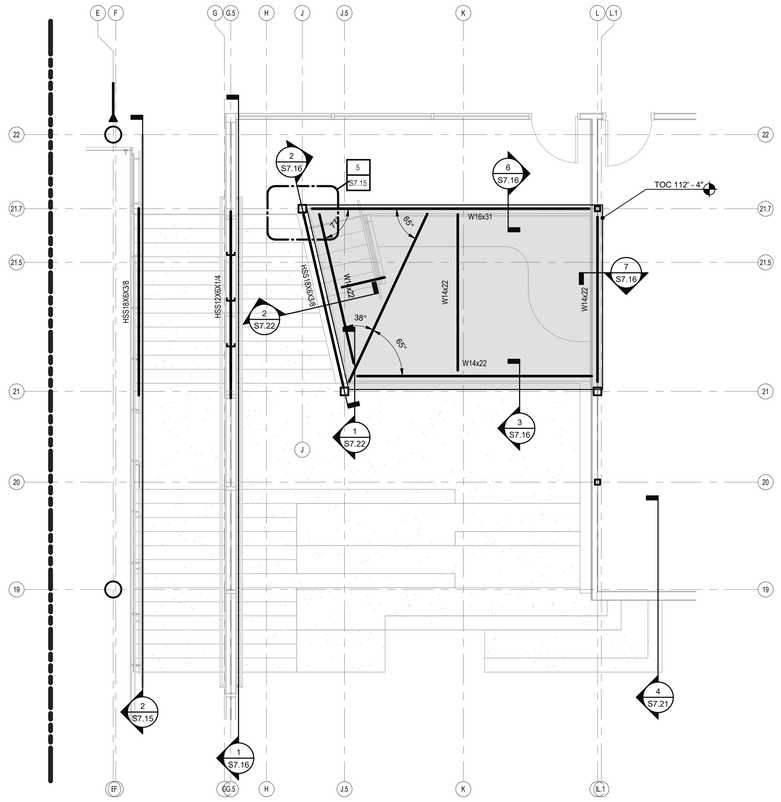
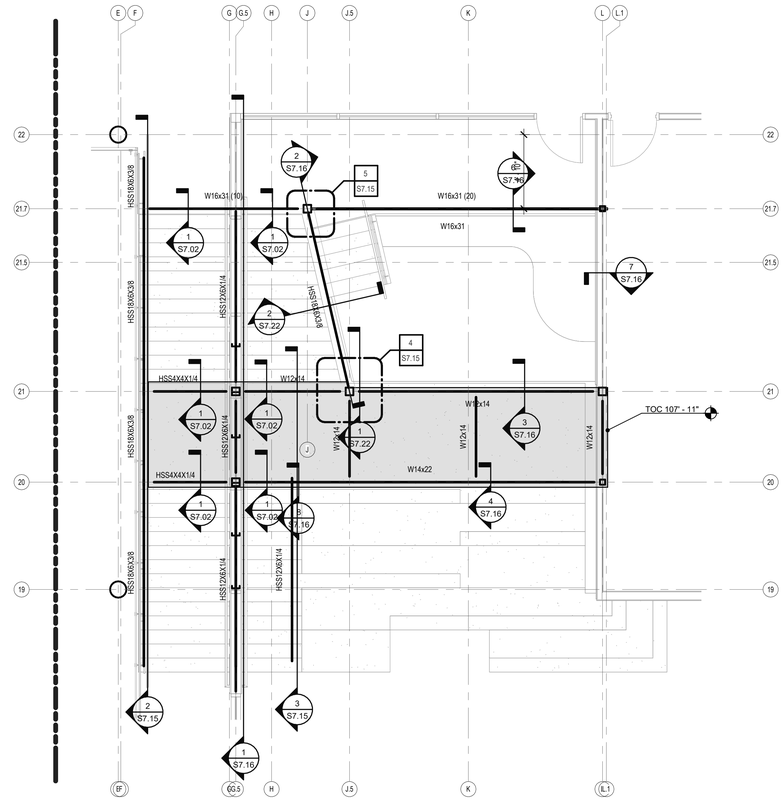


2 ENLARGED FRAMING PLAN - NEST LANDING

S6.13 1/4" = 1'-0"



1 ENLARGED FRAMING PLAN - LEARNING STAIR MID-LANDING

S6.13 1/4" = 1'-0"

Revision / Date

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ENLARGED FLOOR FRAMING PLANS

VOLUME 01

Job No.	Sheet No.
03802-04-01	S6.13
Drawn By: IEG	
Date: 07.15.26	

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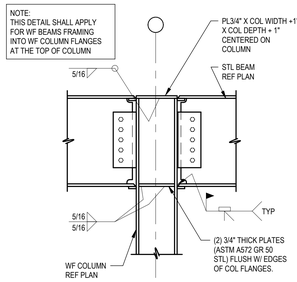
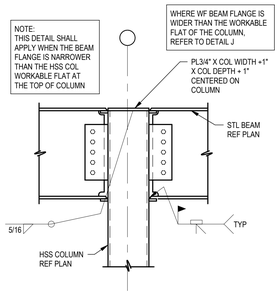
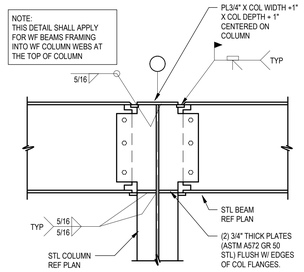


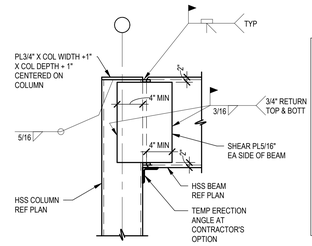
A - TYPICAL WF BEAM TO WF COL FLANGE MOMENT CONNECTION - AT TOP OF COL



C - TYPICAL WF BEAM TO HSS COL MOMENT CONNECTION - AT TOP OF COL

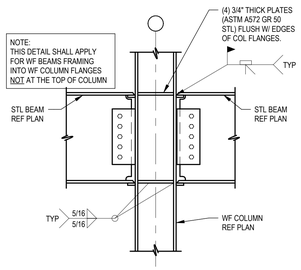


E - TYPICAL WF BEAM TO WF COL WEB MOMENT CONNECTION - AT TOP OF COL

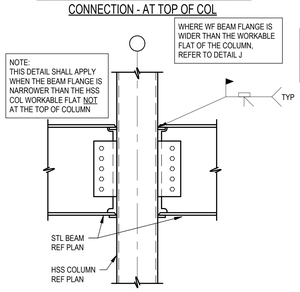


G - TYPICAL HSS BEAM TO HSS COL MOMENT CONNECTION

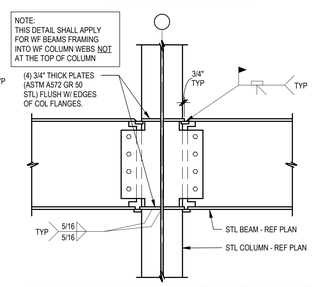
MOMENT CONNECTION DETAIL NOTES:
1. SHEAR CONNECTIONS SHALL BE DESIGNED BY CONTRACTOR'S CONNECTION ENGINEER. REF TYPICAL STRUCTURAL STEEL CONNECTION DETAILS FOR ADDITIONAL INFORMATION NOT PROVIDED HERE.
2. THE SEOR HAS DESIGNED THE WELDS OF THE BEAMS TO THE COLUMNS AND THE SIZES OF THE STIFFENER PLATES NOTED IN THIS DETAIL. ADDITIONALLY, DOUBLER PLATES ARE NOT REQUIRED AT ANY CONNECTION UNLESS NOTED OTHERWISE ON PLAN OR OTHER DETAILS.
3. FLANGE PLATES, BOLTS, AND WELDS AS SHOWN IN DETAIL J AND AS PERMITTED IN NOTE 4 SHALL BE DESIGNED BY THE CONTRACTOR'S CONNECTION ENGINEER FOR AN AXIAL TENSION/COMPRESSION FORCE EQUAL TO 75% OF THE BEAM PLASTIC MOMENT CAPACITY DIVIDED BY THE DISTANCE BETWEEN FLANGE CENTROIDS: T=C=0.9 ØMp / (D-tf). WHERE DESIGN MOMENTS ARE PROVIDED, THESE MOMENTS SHALL GOVERN OVER THE AFOREMENTIONED DESIGN CRITERIA: T=C=Mu / (D-tf)
4. BOLTED MOMENT CONNECTIONS DESIGNED AND DETAILED BY THE CONTRACTOR'S CONNECTION ENGINEER MAY BE USED IN LIEU OF FULLY WELDED MOMENT CONNECTIONS DETAILED HERE AT CONTRACTOR'S OPTION EXCEPT WHERE PROHIBITED IN NOTE 5.
5. BOLTED MOMENT CONNECTIONS MAY NOT BE USED AT ROOF BEAMS WHERE THE DECK IS DIRECTLY ATTACHING TO THE BEAM OR WHERE BOLTS WILL INTERFERE WITH JOIST SEATS OR OTHER BEARING CONDITIONS.
6. BACKER BARS AT FULL PENETRATION WELDS SHALL BE REMOVED AT ALL AESS.



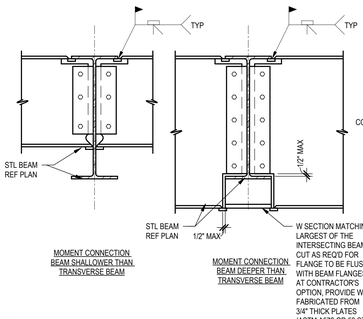
B - TYPICAL WF BEAM TO WF COL FLANGE MOMENT CONNECTION - AT CONT COL



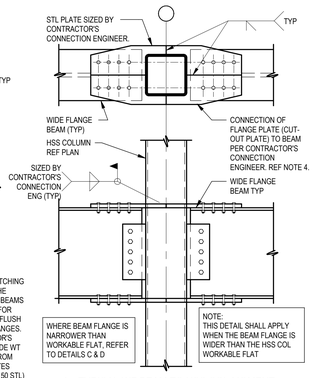
D - TYPICAL WF BEAM TO HSS COL MOMENT CONNECTION - AT CONT COL



F - TYPICAL WF BEAM TO WF COL WEB MOMENT CONNECTION - AT CONT COL



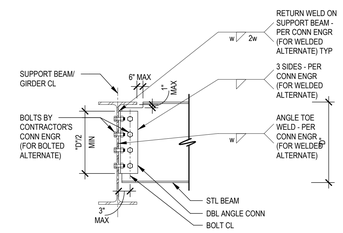
H - TYPICAL WF BEAM TO WF BEAM MOMENT CONNECTION



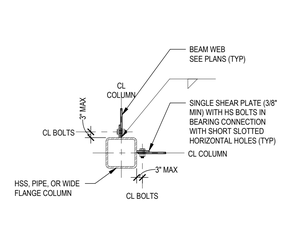
J - TYPICAL WF BEAM TO HSS COL MOMENT CONNECTION

3 TYPICAL MOMENT CONNECTIONS

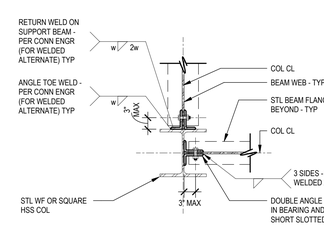
S7.01 1/2" = 1'-0"



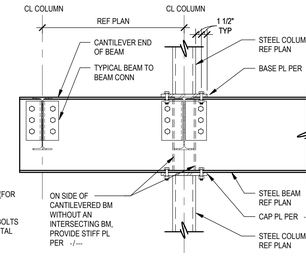
TYP BEAM TO BEAM DOUBLE ANGLE CONN



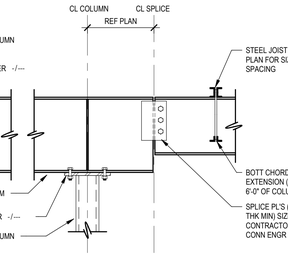
TYP SHEAR PL BEAM TO COLUMN CONN



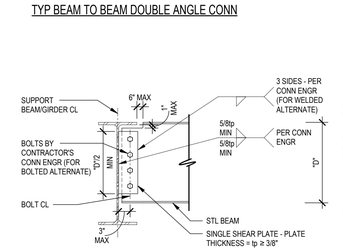
TYP DOUBLE ANGLE BEAM TO COLUMN CONN



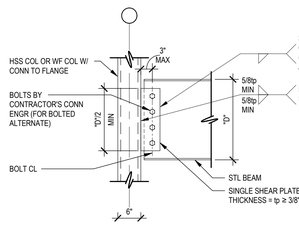
TYP CANTILEVER BEAM OVER TOP OF COLUMN DETAIL



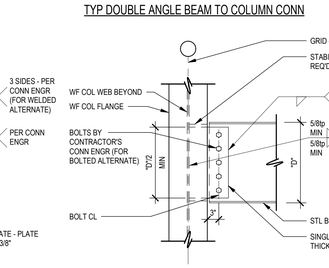
BEAM TO INTERIOR COLUMN AND BEAM SPLICE



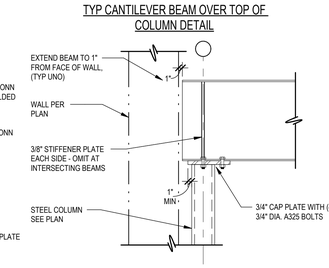
TYPICAL BEAM TO BEAM SHEAR PL CONN



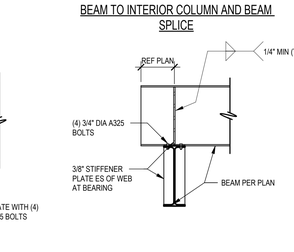
TYP SHEAR PL BEAM CONN TO HSS COLUMN OR WF FLANGE



TYP SHEAR PL BEAM CONN TO WF COLUMN WEB

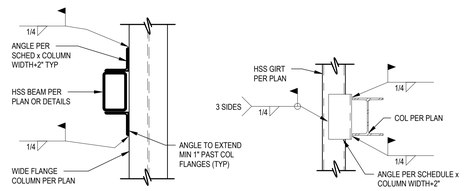


BEAM TO END COLUMN CONN



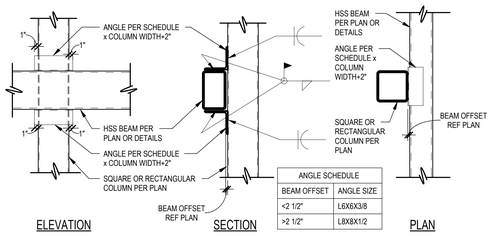
TYPICAL CANTILEVERED BEAM OVER BEAM CONN

STRUCTURAL STEEL CONNECTION NOTES:
1. CONNECTION SHALL BE DESIGNED PER GENERAL NOTES.
2. PROVIDE ERECTION SEAT OR OFFSET ANGLES WHERE REQUIRED BY OSHA.
3. AT CONTRACTOR'S OPTION CONN MAY BE BOLTED/BOLTED, WELDED/BOLTED, OR WELDED/WELDED.
4. BOLT HOLES SHALL BE STD OR SHORT SLOTTED ONLY.
5. LENGTH OF DOUBLE ANGLES OR SHEAR PLATES SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.
6. BOLT HOLES ARE NOT PERMITTED TO BE SLOTTED AT DRAG STRUT/COLLECTOR BEAM CONNECTIONS. THESE SHALL BE CONSIDERED ANY BEAMS FRAMING INTO A COLUMN LINE ALONG THE SAME GRID AS A BRACED FRAME OR MOMENT, OR WHERE ATTACHING TO MASONRY OR CONCRETE SHEAR WALLS.



SECTION PLAN

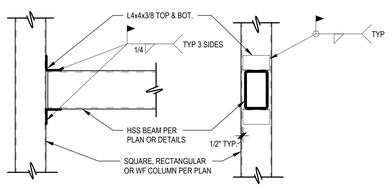
AT HSS GIRT BYPASSING WIDE FLANGE COLUMN



ANGLE SCHEDULE	
BEAM OFFSET	ANGLE SIZE
<2 1/2"	L6X6X3/8
>2 1/2"	L8X8X1/2

ELEVATION SECTION PLAN

AT HSS GIRT BYPASSING HSS COLUMN



SECTION ELEVATION

AT SQUARE HSS, RECTANGULAR HSS, OR WIDE FLANGE COLUMN

2 TYPICAL HSS GIRT TO STEEL COLUMN CONNECTION DETAIL

S7.01 3/4" = 1'-0"

1 TYPICAL STRUCTURAL STEEL CONNECTION DETAILS

S7.01 3/4" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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TYPICAL FRAMING DETAILS - COLUMNS AND CONNX

VOLUME 01

Job No. 00802-04-01	Sheet No. S7.01
Drawn By: IEG	
Date: 07.15.26	

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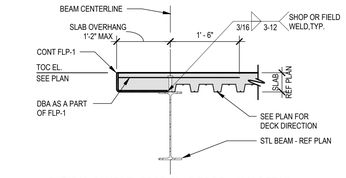
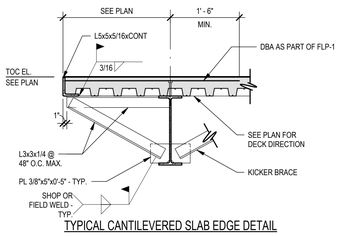
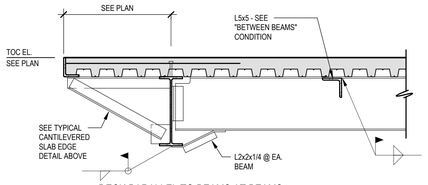


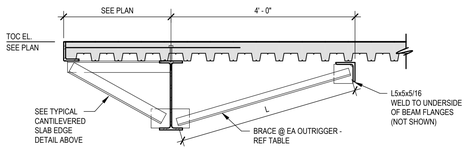
TYPICAL CANTILEVERED SLAB EDGE < 1'-2" DETAIL



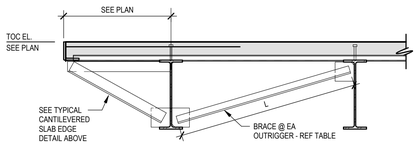
TYPICAL CANTILEVERED SLAB EDGE DETAIL



DECK PARALLEL TO BEAMS AT BEAMS



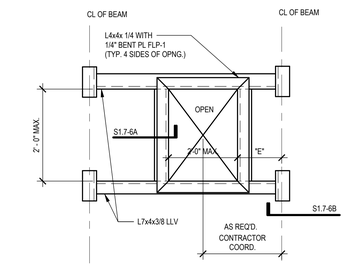
DECK PARALLEL TO BEAMS BETWEEN BEAMS



ANGLE BRACE	
"L"	BRACE SIZE
< 4'-0"	L2"x2"x1/4
4' TO 7'	L3x3x1/4
7' TO 10'	L4x4x1/4
10' TO 14'	L5x5x1/4

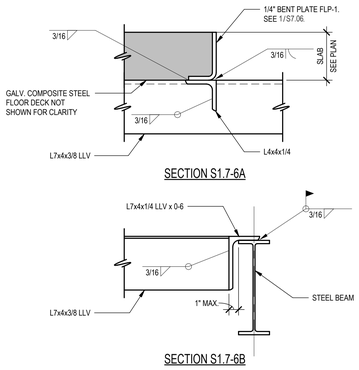
DECK PERPENDICULAR TO BEAMS

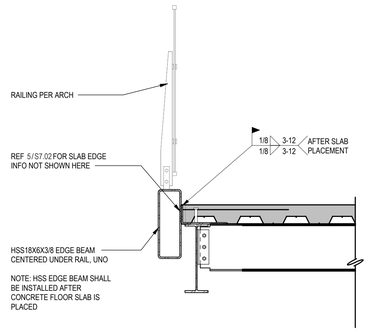
5 TYPICAL CANTILEVERED COMPOSITE SLAB DETAIL
S7.02 NO SCALE



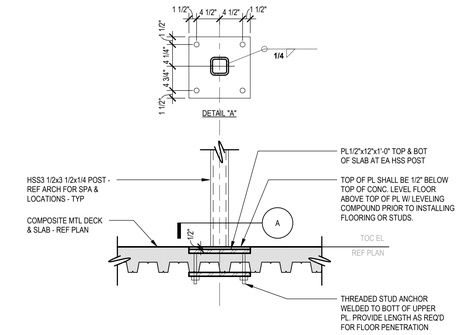
NOTE:
TYP. FLOOR OPENING DETAIL SHOWN APPLIES TO ALL FLOOR OPENINGS LESS THAN 2'-0" x 2'-0". WHERE DIMENSION "E" ALLOWS FOR 1" OR MORE BEARING OF BENT PL ON STEEL BEAM, L7x4 MAY BE OMITTED.

4 TYPICAL COMPOSITE FLOOR SLAB OPENING
S7.02 3/4" = 1'-0"



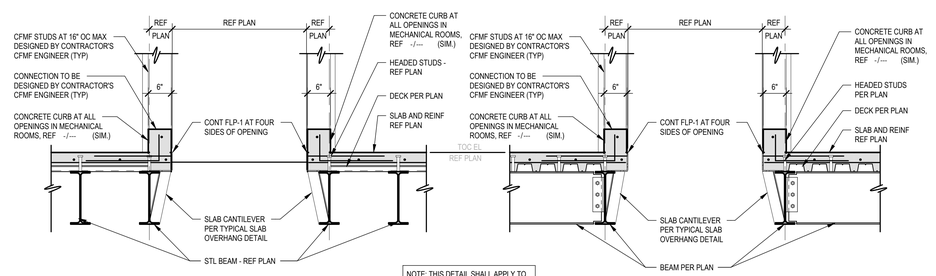


9 TYPICAL SECTION AT SLAB EDGE WITH TYPE "R5" RAILING
S7.02 3/4" = 1'-0"

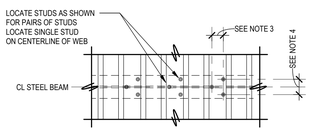


COMPUTER LAB TABLE BASE CONNX. AT COMPOSITE SLAB

6 SECTION
S7.02 1" = 1'-0"



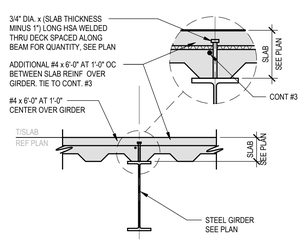
3 TYPICAL FLOOR OPENING DETAIL
S7.02 3/4" = 1'-0"



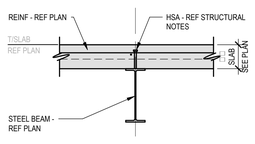
PLAN VIEW

STUD PLACEMENT NOTES:
1. BEAMS - PLACE STUDS UNIFORMLY ALONG LENGTH WITH REMAINDER PLACED AT FLUTES EACH END OF BEAM IN EQUAL NUMBERS.
2. LONGITUDINAL SPACING - 4 1/2" (6 STUD DIA.)
3. TRANSVERSE SPACING - 3" (4 STUD DIA.)
4. MAXIMUM SPACING - 36"

SHEAR STUD PLACEMENT

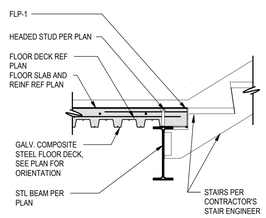


COMPOSITE SLAB REINFORCEMENT - GIRDER

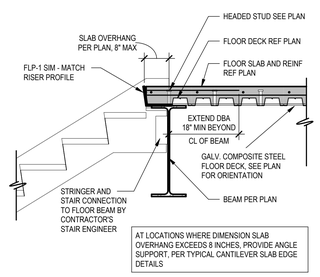


COMPOSITE SLAB REINFORCEMENT - BEAM

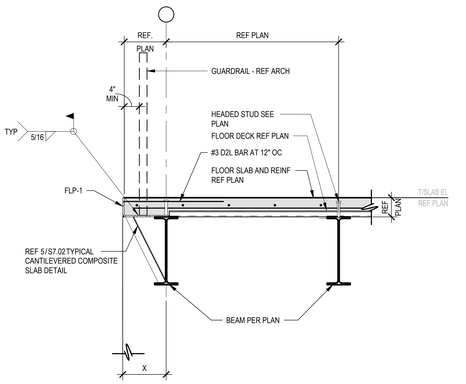
2 TYPICAL COMPOSITE BEAM AND GIRDER SECTION
S7.02 3/4" = 1'-0"



AT STRINGER (BOTTOM)



AT STRINGER (TOP)



AT HANDRAIL

1 TYPICAL SECTION AT STAIR OPENING SLAB EDGE
S7.02 3/4" = 1'-0"

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Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

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TYPICAL FRAMING DETAILS - FLOOR

VOLUME 01

Job No. 00802-04-01	Sheet No. S7.02
Drawn By: IEG	
Date: 07.15.26	

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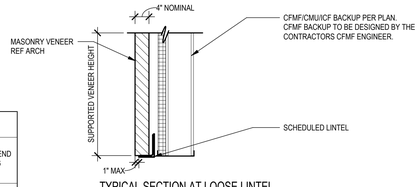
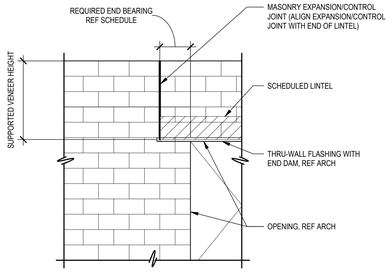


TYPICAL SECTION AT LOOSE LINTEL

LOOSE LINTEL SCHEDULE

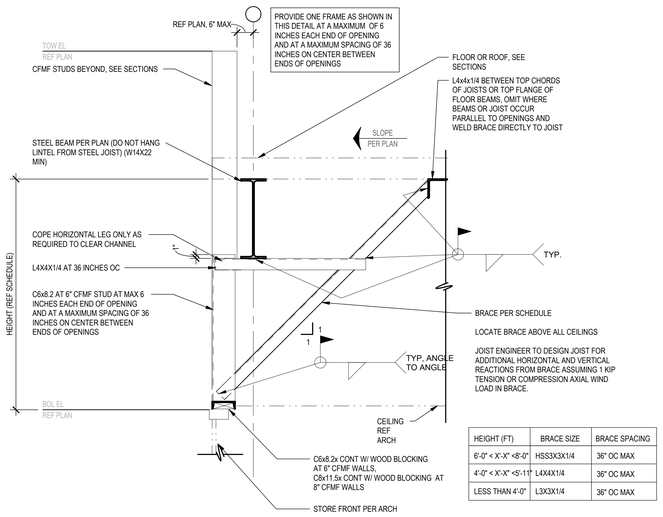
MINIMUM ANGLE SIZE (LLV)	MAX CLEAR SPAN/ CLEAR OPENING FOR LOOSE LINTELS SUPPORTING UP TO 14' - 0" VENEER	REQUIRED END BEARING
1 - L7x4x3/8	8'-0"	8"

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. ALL LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. PROVIDE 3/8" GAP IN MORTAR AT ENDS OF ANGLE. FORM GAP W/ BACKER ROD.
4. IT IS **NOT** STRUCTURALLY ACCEPTABLE TO FASTEN ANY TYPE OF ASSEMBLY OR CONNECTION TO THE LOOSE LINTEL OR USE THE LOOSE LINTEL FOR SUPPORT OF ANYTHING OTHER THAN SUPPORTING MASONRY VENEER AS INDICATED IN THIS DETAIL. ATTACHMENT OF CANOPIES, CURTAIN WALL, STOREFRONT, OR OTHER ELEMENTS TO ANY LOOSE LINTEL IS PROHIBITED.
5. PROVIDE TEMPORARY SHORING FOR ALL LOOSE LINTELS PRIOR TO CONSTRUCTING THE MASONRY SUPPORTED BY THE LINTEL. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL THE MASONRY HAS DEVELOPED SUFFICIENT STRENGTH TO SUPPORT THE APPLIED LOADS, BUT NOT LESS THAN 14 DAYS.



TYPICAL ELEVATION AT LOOSE LINTEL

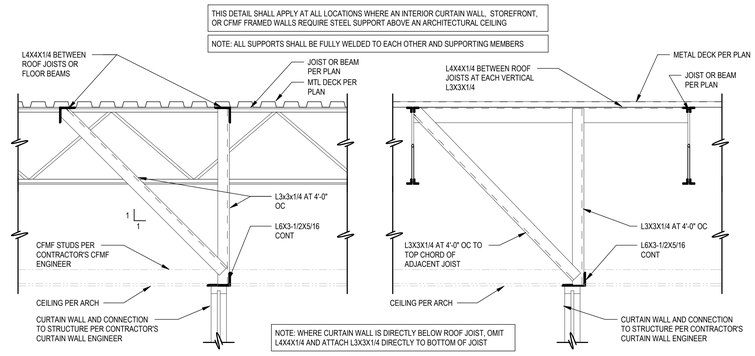
4 TYPICAL LOOSE LINTEL MASONRY SUPPORT
S7.03 3/4" = 1'-0"



HEIGHT (FT)	BRACE SIZE	BRACE SPACING
6'-0" < X'-X" <8'-0"	HSS3X3X1/4	36" OC MAX
4'-0" < X'-X" <5'-11"	L4X4X1/4	36" OC MAX
LESS THAN 4'-0"	L3X3X1/4	36" OC MAX

TYPICAL EXTERIOR SUPPORTS FOR OPENINGS GREATER THAN 12'-0" IN WIDTH

3 TYPICAL DETAIL - STORE FRONT / CURTAIN WALL BRACING
S7.03 3/4" = 1'-0"



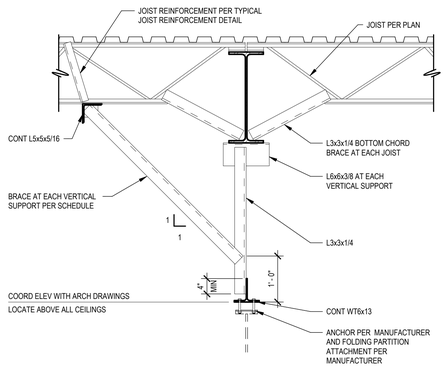
WALL PERPENDICULAR TO ROOF BEAM OR FLOOR BEAM

WALL PARALLEL TO ROOF JOIST OR FLOOR BEAM

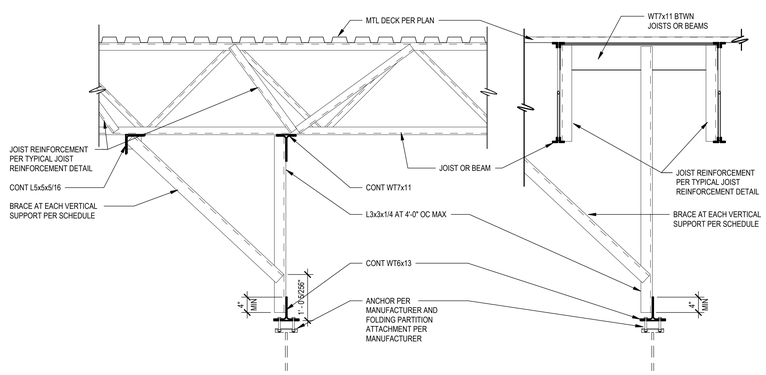
TYPICAL INTERIOR SECTIONS

NOTES:
1. ALL SUPPORTS SHALL BE FULLY WELDED TO EACH OTHER AND SUPPORTING MEMBERS.
2. ALL CONNECTIONS WITHOUT WELD SYMBOLS SHALL BE AT A MINIMUM WELDED ALL AROUND WITH THE MINIMUM FILLET OR BUTT WELD SIZE.
3. PROVIDE MINIMUM 2 SUPPORTS AT HANGING CHAIRS.
4. JOIST ENGINEER TO DESIGN ALL JOIST SUPPORTING PEOPLE MOVERS WITH AN ADDITIONAL 750# ADD LOAD AT EACH JOIST.
5. MAX LIVE LOAD DEFLECTION SHALL BE 1 INCH.
6. JOIST ENGINEER TO DESIGN ALL JOISTS SUPPORTING FOLDING PARITION WALLS OR FABRIC CURTAIN TO SUPPORT A UNIFORM TOTAL LOAD OF 270 PLF (120 PLF LL), PLUS THE FOLLOWING LOAD CASES:
   A. CASE 1: WALL OPEN POSITION: 120 PLF LIVE LOAD ALONG THE LENGTH OF THE PARTITION WALL.
   B. CASE 2: CONCENTRATED LOAD EQUAL TO LENGTH OF FOLDING PARITION WALL TIMES 120 PLF APPLIED AT STACKING AREA AS INDICATED ON THE ARCH DRAWINGS.
   C. CASE 1 AND CASE 2 DO NOT ACT CONCURRENTLY.

DIAGIONAL BRACE SCHEDULE	
L	BRACE SIZE
< 9'-0"	L3x3x1/4
9'-0" < L < 16'-0"	L5x5x5/16
16'-0" < L < 30'-0"	HSS5 1/2x5 1/2x3/16



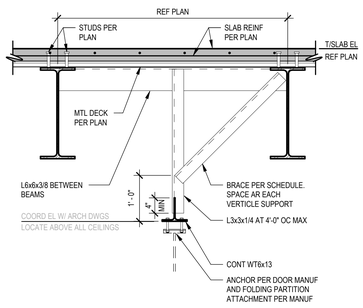
HANGING LOAD PARALLEL TO BEAM ABOVE



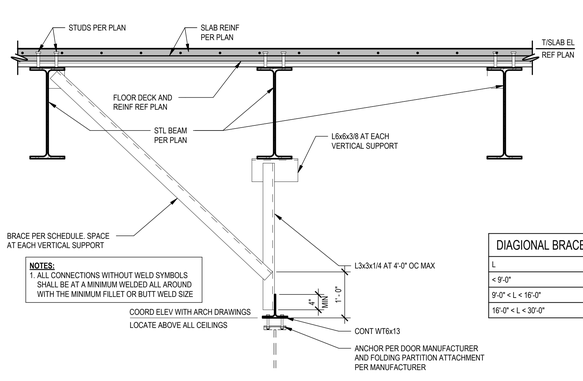
HANGING LOAD PERPENDICULAR TO JOIST

HANGING LOAD PARALLEL TO JOIST

2 TYPICAL GENERAL HANGING LOAD SUPPORT AND FOLDING PARTITION WALL SUPPORT DETAIL
S7.03 3/4" = 1'-0"



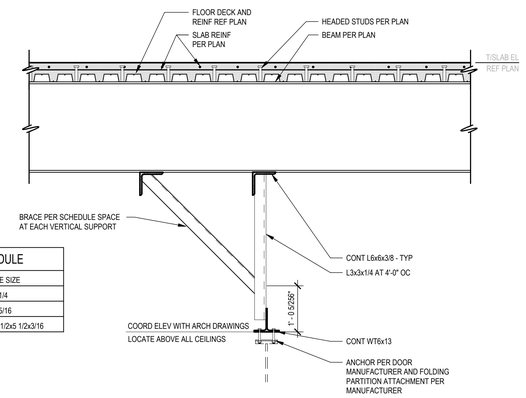
PARALLEL TO BEAM - BETWEEN BEAMS



NOTES:
1. ALL CONNECTIONS WITHOUT WELD SYMBOLS SHALL BE AT A MINIMUM WELDED ALL AROUND WITH THE MINIMUM FILLET OR BUTT WELD SIZE

PARALLEL TO BEAM - ALIGNED WITH BEAMS ABOVE

DIAGIONAL BRACE SCHEDULE	
L	BRACE SIZE
< 9'-0"	L3x3x1/4
9'-0" < L < 16'-0"	L5x5x5/16
16'-0" < L < 30'-0"	HSS5 1/2x5 1/2x3/16



PERPENDICULAR TO BEAMS

1 FOLDING PARTITION WALL SUPPORT DETAIL AT FLOOR
S7.03 3/4" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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TYPICAL FRAMING DETAILS - WALL

VOLUME 01

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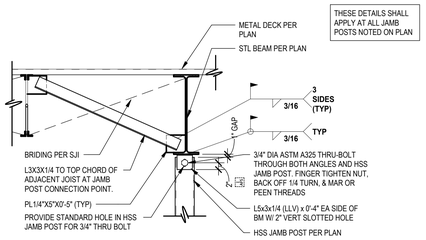
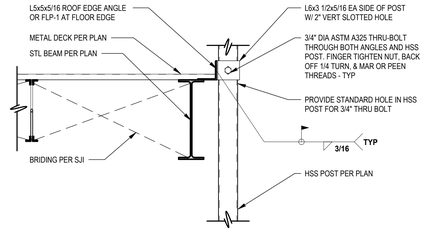
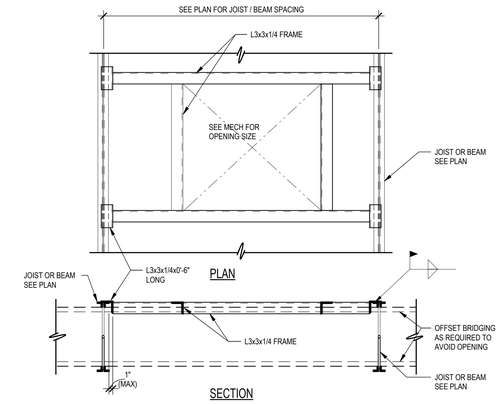


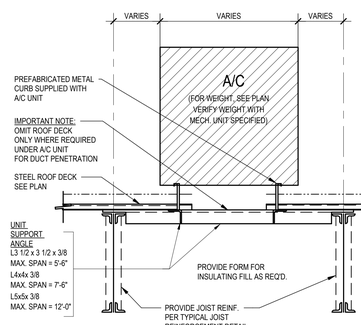


7 JAMB POST TO BEAM CONNECTION DETAIL
S7.04 3/4" = 1'-0"

6 BRACED FRAME/MOMENT FRAME COLUMN BRACE
S7.04 3/4" = 1'-0"

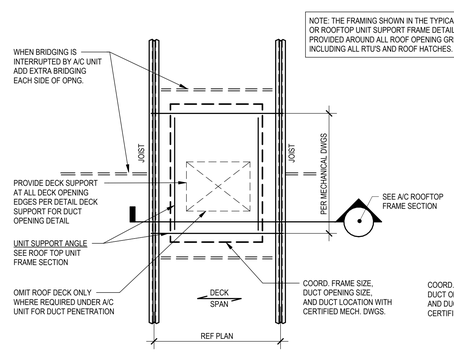


5 TYPICAL ROOF OPENING DETAIL
S7.04 3/4" = 1'-0"

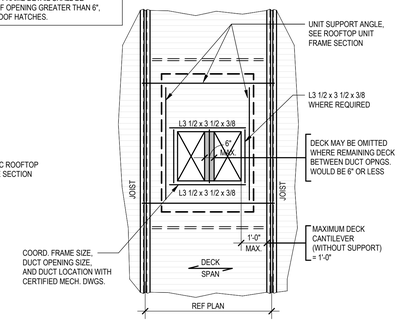


ROOF TOP UNIT FRAME SECTION

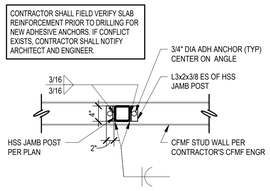
4 TYPICAL ROOFTOP DETAIL
S7.04 1 1/2" = 1'-0"



ROOF OPENING OR ROOFTOP UNIT SUPPORT FRAME DETAIL



DECK SUPPORT FOR DUCT OPENING DETAIL



3 JAMB POST TO FOUNDATION CONNECTION DETAIL
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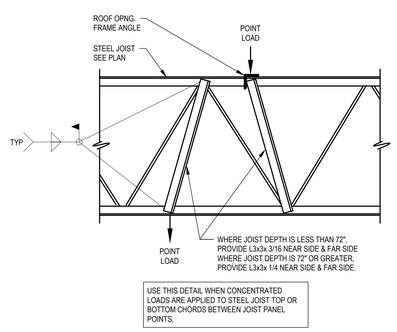

2 TYPICAL JOIST REINFORCEMENT AT POINT LOAD DETAIL
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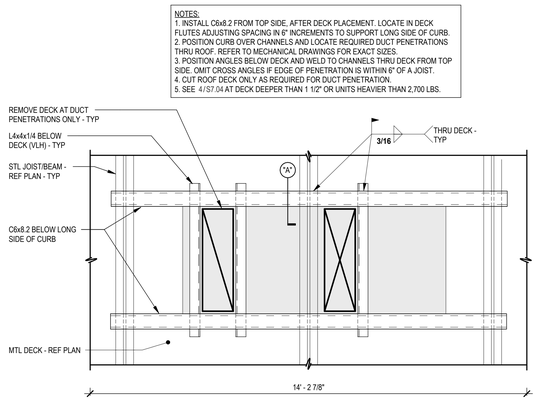
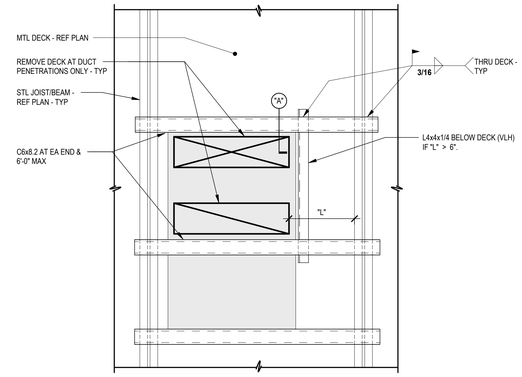
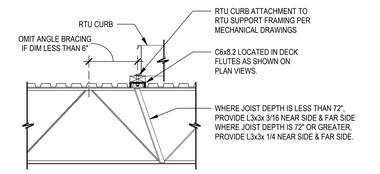


RTU PLAN VIEW - PERPENDICULAR TO JOISTS

1 TYPICAL RTU SUPPORT UNDER 2,700 LBS.
S7.04 1/2" = 1'-0"



RTU PLAN VIEW - PARALLEL TO JOISTS



DETAIL "A"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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TYPICAL FRAMING DETAILS - ROOF LOAD SUPPORT

VOLUME 01

Job No.	Sheet No.
0/2602-04-01	S7.04
Drawn By: IEG	
Date: 07.15.26	

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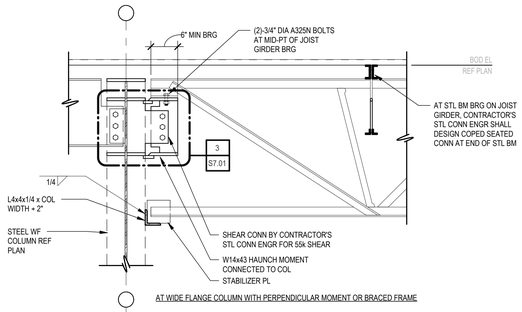
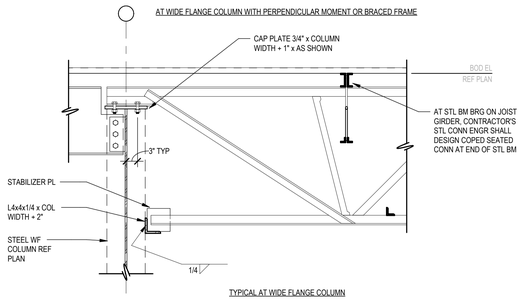
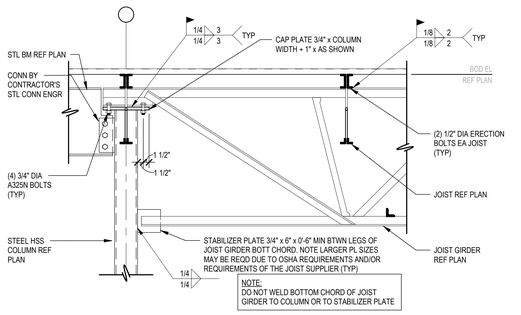


AT WIDE FLANGE COLUMN WITH PERPENDICULAR MOMENT OR BRACED FRAME

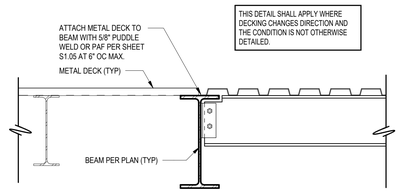


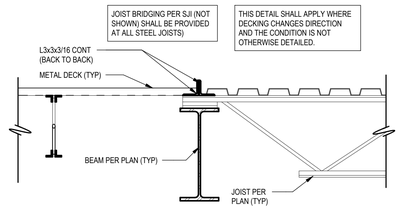
TYPICAL AT WIDE FLANGE COLUMN



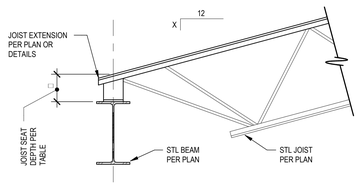
NOTE:
DO NOT WELD BOTTOM CHORD OF JOIST GIRDER TO COLUMN OR TO STABILIZER PLATE

5 TYPICAL JOIST GIRDER TO COLUMN CONNECTION DETAIL
S7.05 3/4" = 1'-0"

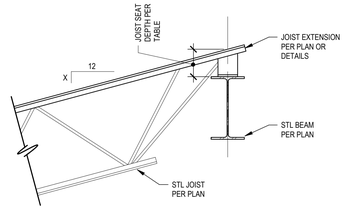




7 TYPICAL CHANGE IN DECK DIRECTION DETAIL
S7.05 1" = 1'-0"



SLOPED SEAT AT LOW JOIST END

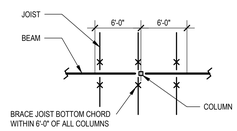


SLOPED SEAT AT HIGH JOIST END

SLOPED JOIST SEAT DEPTH	
SLOPE "X" : 12	MINIMUM SEAT DEPTH
1 1/2" TO 2 1/2"	4"
3 " TO 4"	4 1/2"
4 1/2" TO 5"	5"
5 1/2" TO 6"	5 1/2"
GREATER THAN 6"	REF PLAN / DETAILS

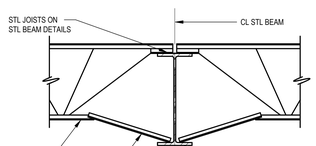
SLOPED JOIST SEAT DEPTHS GIVEN IN TABLE ARE MINIMUMS. REFER TO JOIST SEAT NOTES FOR ADDITIONAL JOIST SEAT REQUIREMENTS

4 TYPICAL JOIST SLOPED SEAT DETAIL
S7.05 1" = 1'-0"

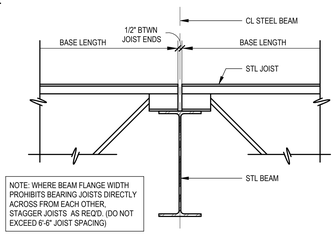


TYPICAL BOTTOM CHORD BRACE PLAN

JOIST SEAT NOTES :
1. JOIST SEATS SHALL BE ATTACHED TO SUPPORTS PER STEEL JOIST INSTITUTE SPECIFICATIONS.
2. FINAL JOIST SEAT DEPTHS SHALL BE DETERMINED BY THE JOIST ENGINEER AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE JOISTS. THE MINIMUM PERMISSIBLE JOIST'S 0K JOIST SUBSTITUTE SEAT DEPTH SHALL BE 3 1/2". THE JOIST ENGINEER SHALL VERIFY THAT LARGER DEPTHS ARE NOT REQUIRED FOR FABRICATION OR BEARING CONDITIONS, INCLUDING TOP CHORD EXTENSIONS.
3. ALL JOIST BASE LENGTHS MUST CLEAR BEARING DISTANCES SHOWN

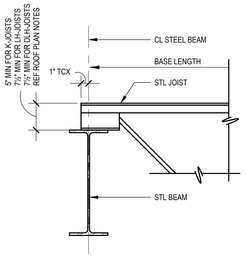


BOTTOM CHORD BRACE JOIST TO STEEL BEAM



NOTE: WHERE BEAM FLANGE WIDTH PROHIBITS BEARING JOISTS DIRECTLY ACROSS FROM EACH OTHER, STAGGER JOISTS AS REQ'D. (DO NOT EXCEED 6'-6" JOIST SPACING)

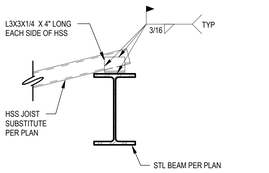
BEAM SUPPORTING JOIST ON BOTH SIDES



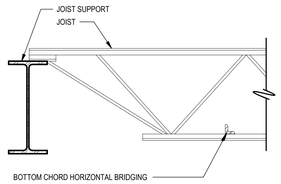
BEAM SUPPORTING JOIST ON ONE SIDE

JOIST ON A STEEL BEAM

2 TYPICAL ROOF FRAMING DETAILS
S7.05 1 1/2" = 1'-0"



10 TYPICAL DETAIL - HSS JOIST SUBSTITUTE AT STEEL BEAM
S7.05 1" = 1'-0"



6 TYPICAL UPLIFT BRIDGING DETAIL
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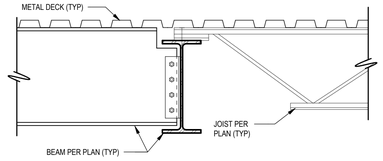
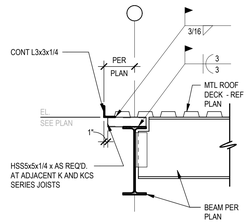
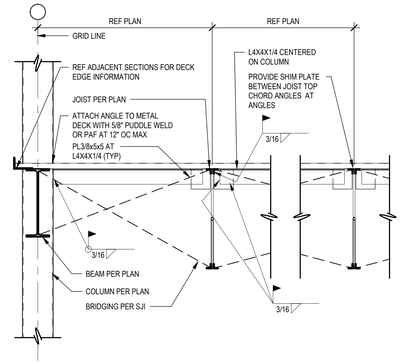


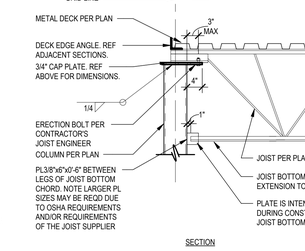
11 TYPICAL COPED BEAM AT JOIST DETAIL
S7.05 1" = 1'-0"



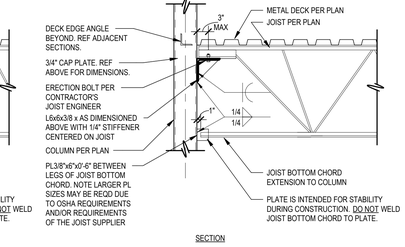
9 SECTION
S7.05 3/4" = 1'-0"



8 COLUMN DRAG STRUT DETAIL
S7.05 3/4" = 1'-0"

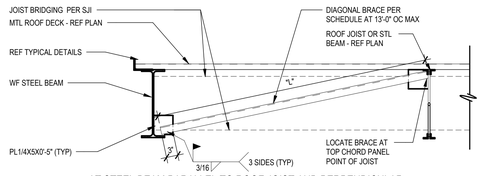


JOIST BEARING ON TOP OF COLUMN

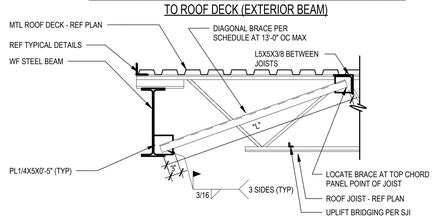


JOIST BEARING ON FACE OF COLUMN

3 TYPICAL JOIST BEARING ON COLUMN DETAIL
S7.05 3/4" = 1'-0"



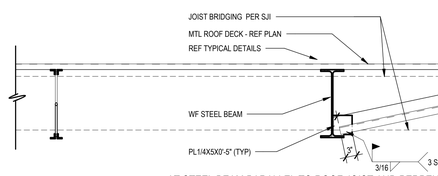
AT STEEL BEAM PARALLEL TO ROOF JOIST AND PERPENDICULAR TO ROOF DECK (EXTERIOR BEAM)



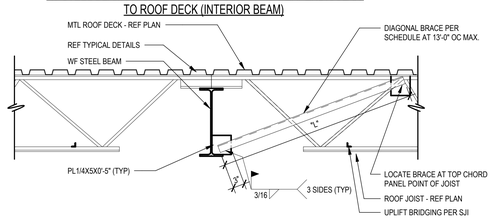
AT STEEL BEAM SUPPORTING ROOF JOIST NON PARALLEL TO ROOF DECK (EXTERIOR BEAM)

DIAGIONAL BRACE SCHEDULE	
L	BRACE SIZE
< 6'-0"	L2x2x1/4
6'-0" < L < 9'-0"	L3x3x1/4
9'-0" < L < 16'-0"	L5x5x5/16
16'-0" < L < 30'-0"	HSS5 1/2x5 1/2x3/16

NOTES:
1. THIS DETAIL SHALL APPLY AT ALL ROOF BEAMS WHERE OTHER MISCELLANEOUS BRACING (e.g. BRACES FOR STOREFRONT SUPPORT, BRACES FOR VENEER SUPPORT, ETC.) DOES NOT GOVERN (i.e. IS SPACED AT GREATER THAN 13'-0" OC).
2. LOADS APPLIED BY BRACES TO JOIST ARE TO BE CONSIDERED NOMINAL AND HAVE BEEN INCORPORATED INTO JOIST DESIGNATION.
3. AT LOCATIONS WHERE DIAGONAL BRACE CAN NOT BE ATTACHED TO STEEL JOISTS AT A JOIST PANEL POINT, REFER TO TYPICAL JOIST REINFORCMENT AT POINT LOAD DETAIL 2/S7.04



AT STEEL BEAM PARALLEL TO ROOF JOIST AND PERPENDICULAR TO ROOF DECK (INTERIOR BEAM)



AT STEEL BEAM SUPPORTING ROOF JOIST NON PARALLEL TO ROOF DECK (INTERIOR BEAM)

1 TYPICAL STEEL ROOF BEAM BRACING DETAIL
S7.05 3/4" = 1'-0"

Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

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TYPICAL FRAMING DETAILS - ROOF

VOLUME 01

Job No.	Sheet No.
00802-04-01	S7.05
Drawn By: IEG	
Date: 07.15.26	

7/14/2026 5:33:17 PM
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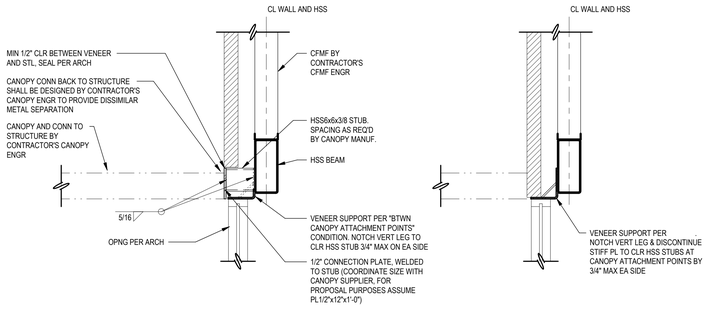
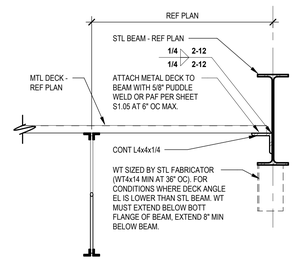
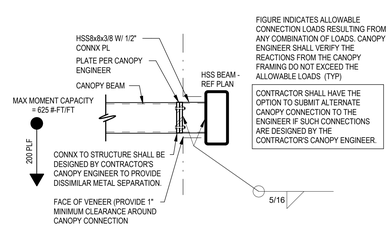


8 TYPICAL PRE-ENGINEERED CANOPY SUPPORT WITH BRICK & OPNG
S7.06 3/4" = 1'-0"



7 TYPICAL DECK SUPPORT AT BEAM WEB DETAIL
S7.06 1" = 1'-0"



6 TYPICAL PRE-ENGINEERED CANOPY SUPPORT AT HSS BEAM
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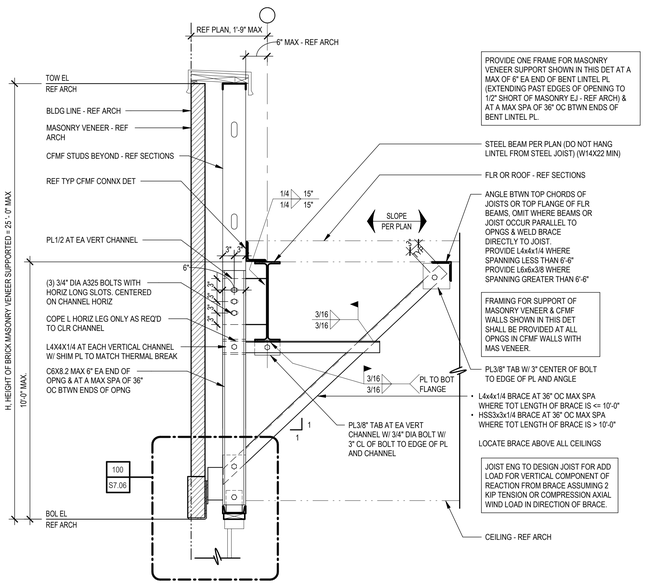
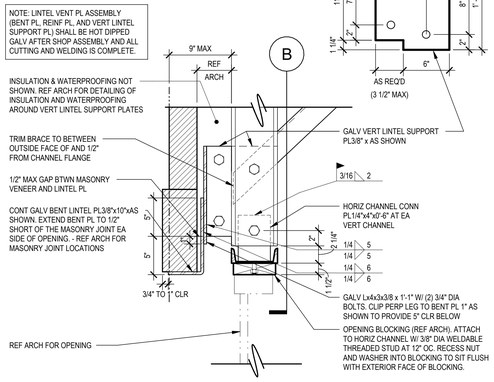
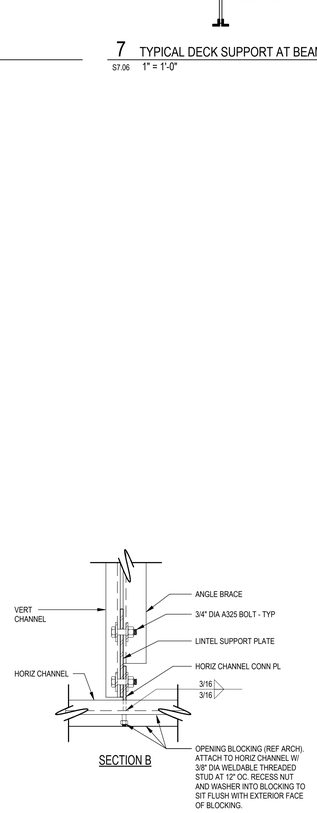


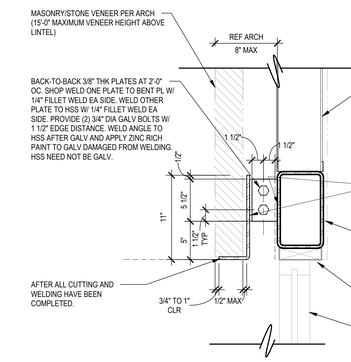
5 TYPICAL MASONRY SUPPORT AT CFMF WALL
S7.06 3/4" = 1'-0"



DETAIL 1A

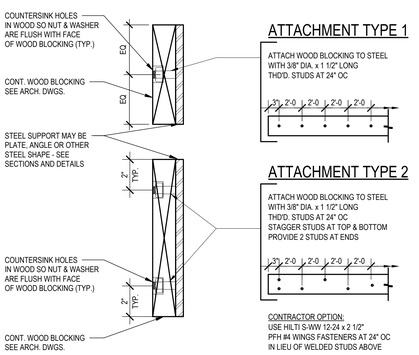


SECTION B

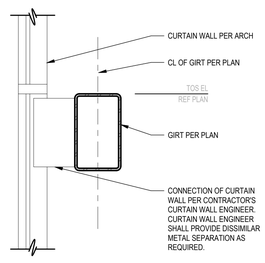


TYPICAL MASONRY SUPPORT AT HSS HEADER/WALL GIRT

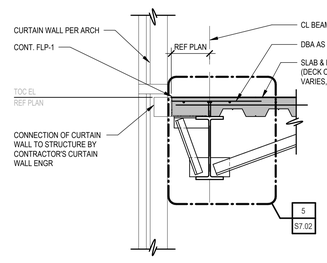
4 TYPICAL MASONRY SUPPORT WHERE NO ARCHITECTURAL CEILING IS PRESENT
S7.06 1 1/2" = 1'-0"



3 TYPICAL WOOD BLOCKING ATTACHMENT DETAIL
S7.06 3/4" = 1'-0"



2 TYPICAL CURTAIN WALL SUPPORT DETAIL
S7.06 3/4" = 1'-0"



1 TYPICAL PLATE DETAILS
S7.06 3/4" = 1'-0"

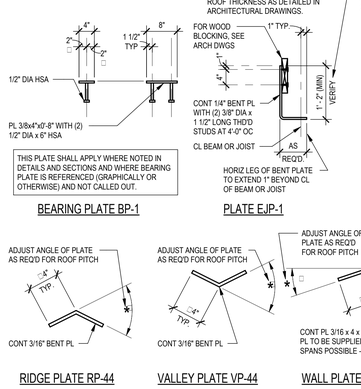


PLATE NOTES
1. ALL PLATES DETAILED MAY NOT BE USED FOR THIS PROJECT.
2. UNLESS OTHERWISE INDICATED, PLATES SHALL BE ASTM A36 STEEL PLATE.
3. CONTINUOUS WELDED PLATES MAY BE USED IN LIEU OF BENT PLATES (CONTRACTOR OPTION) UNLESS SPECIFICALLY PROHIBITED BY DETAIL.
4. PLATES SHALL BE PROVIDED CLEAN AND FREE OF RUST, OIL, DIRT AND SCALE.
5. ALL PLATES SHALL BE UNPAINTED, TYPICAL, UNO.
6. STEEL FABRICATOR/DETAILER SHALL USE PLATE IDENTIFICATION SIMILAR TO NAMED PLATES SHOWN, (I.E., BP-1, EJP-1, VP-44, ETC.)
7. UNLESS OTHERWISE INDICATED, HEADED STUD ANCHORS (HS OR HSA) SHALL BE ASTM A 108 GRADE 1015 BARS.
8. WHERE PLATE IS REFERENCED (GRAPHICALLY OR OTHERWISE), AND NOT CALLED OUT, CONTRACTOR SHALL VERIFY THE USE OF THE PLATES REFERENCED IN THIS DETAIL WITH THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OF PLATES.

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TYPICAL FRAMING DETAILS - PLATES
VOLUME 01

Job No.	Sheet No.
00802-04-01	S7.06
Drawn By: IEG	
Date: 07.15.26	

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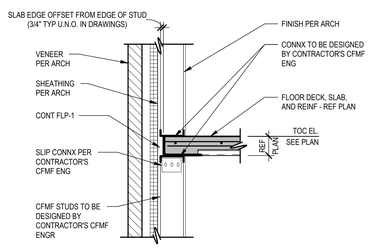
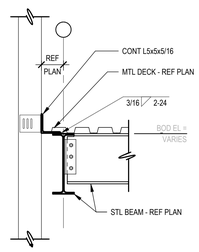
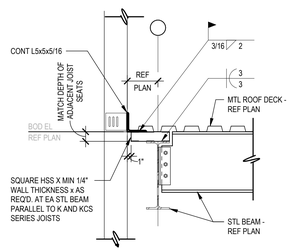


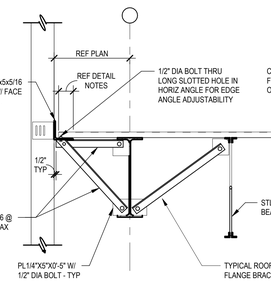
5 TYPICAL SLAB EDGE OFFSET AT CFMF
S7.07 3/4" = 1'-0"



TYPICAL STEEL BEAM PERPENDICULAR TO STEEL GIRDER BEAM

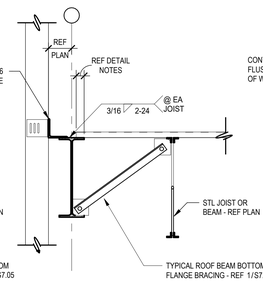


TYPICAL STEEL BEAM PARALLEL TO JOIST AT PERPENDICULAR GIRDER BEAM

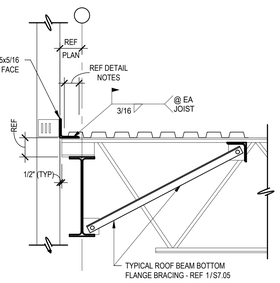


TYPICAL JOIST PARALLEL TO STEEL BEAM (ALT)

NOTE: THIS DETAIL SHALL APPLY WHEN 1" MIN L5X3X1/4 OVERLAP ONTO BEAM TOP FLANGE CANNOT BE ACHIEVED



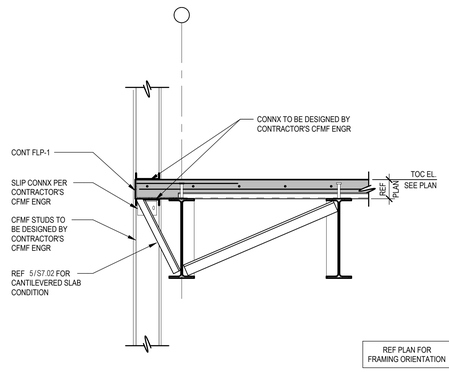
TYPICAL JOIST PARALLEL TO STEEL BEAM

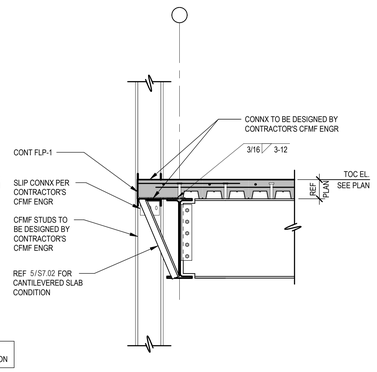


TYPICAL JOIST PERPENDICULAR TO STEEL GIRDER BEAM

DETAIL NOTES:
1. USE THIS DETAIL AT ALL PERIMETER WALLS WITH STEEL SUPERSTRUCTURE (UNO)
2. JOIST BRIDGING AS REQUIRED AND SPECIFIED BY THE JOIST ENGINEER/MANUFACTURER IS NOT SHOWN FOR CLARITY.
3. EXTERIOR CFMF SHALL BE ATTACHED TO THE CONT ROOF EDGE ANGLE (UNO) WITH CONNECTION OF CFMF TO ANGLE TO BE DESIGNED BY THE CONTRACTOR'S CFMF ENGINEER.
4. REF PLAN FOR METAL ROOF DECK TYPE, GAGE, AND SPAN DIRECTION.
5. MINIMUM OVERLAP OF STEEL ROOF DECK EDGE TO STEEL SUPPORT MEMBER SHALL BE 2" (UNO)

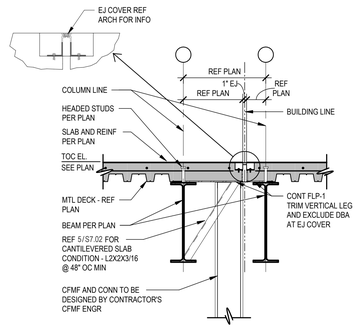
4 TYPICAL EDGE OF ROOF FRAMING DETAIL
S7.07 3/4" = 1'-0"



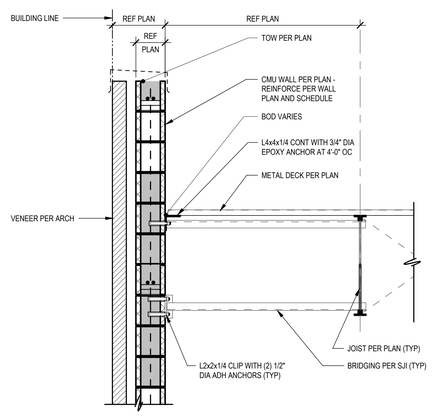


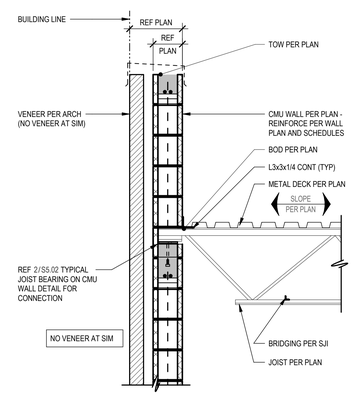
REF PLAN FOR FRAMING ORIENTATION

3 SECTION
S7.07 3/4" = 1'-0"



2 SECTION
S7.07 3/4" = 1'-0"





1 TYPICAL SECTION
S7.07 3/4" = 1'-0"

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TYPICAL FRAMING DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	S7.07
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TYPICAL FRAMING DETAILS

VOLUME 01

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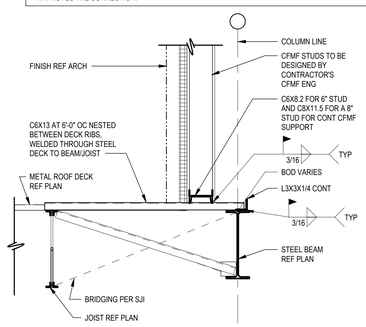
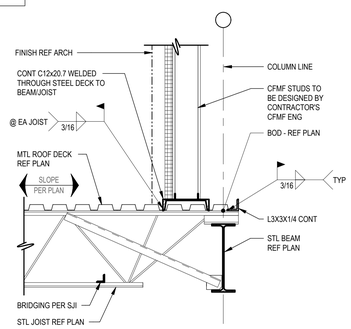
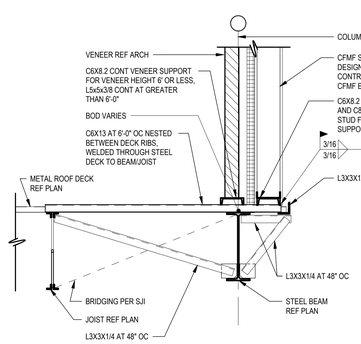
DETAIL NOTES:
1. REFER TO FRAMING PLANS FOR ORIENTATION OF JOIST AND BEAMS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH TYPE.
3. NOT ALL DETAILS MAY APPLY TO THIS PROJECT
4. UNLESS NOTED OTHERWISE, NON-GRAVITY LOAD BEARING CFMF (UP TO 20'-0" IN HEIGHT) MAY BEAR DIRECTLY ON STEEL DECKING, AND AT CONDITIONS WHERE HEAVY LOAD SUPPORT IS NOT REQUIRED (IE. NON-MASONRY VENEER). GENERAL CONTRACTOR TO COORDINATE SUPPORT OF CFMF FRAMING WITH CONTRACTOR'S CFMF ENGINEER. IT IS STRUCTURALLY ACCEPTABLE TO SUPPORT CFMF FRAMING DIRECTLY ON THE STEEL DECKING PROVIDED THE CONTRACTOR'S CFMF ENGINEER DESIGNS AND APPROVES THE CONNECTION.



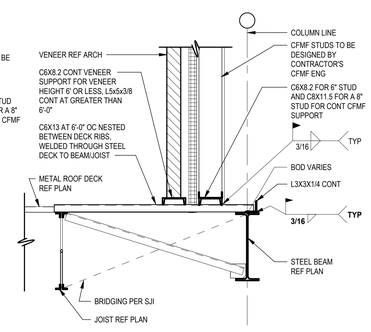
AT JOIST PARALLEL TO WALL - NON-MASONRY VENEER



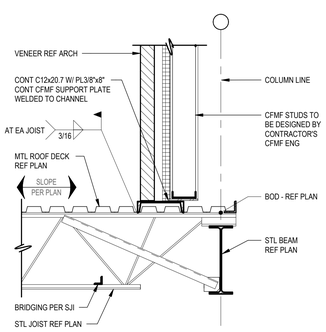
AT JOIST PERPENDICULAR TO WALL - NON-MASONRY VENEER



AT JOIST PARALLEL TO WALL AND EOD EXTENSION - WITH MASONRY VENEER



AT JOIST PARALLEL TO WALL - WITH MASONRY VENEER



AT JOIST PERPENDICULAR TO WALL - WITH MASONRY VENEER

1 TYPICAL DETAIL - WALL AT LOW ROOF
S7.08 3/4" = 1'-0"

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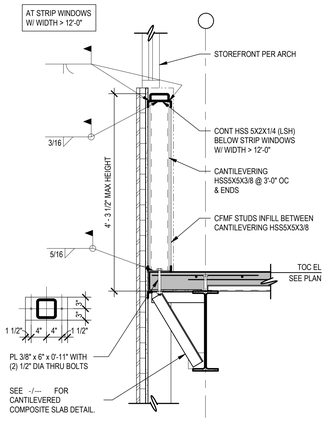
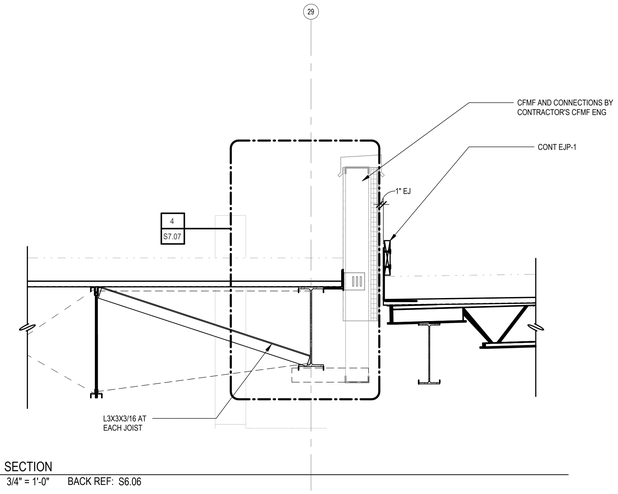
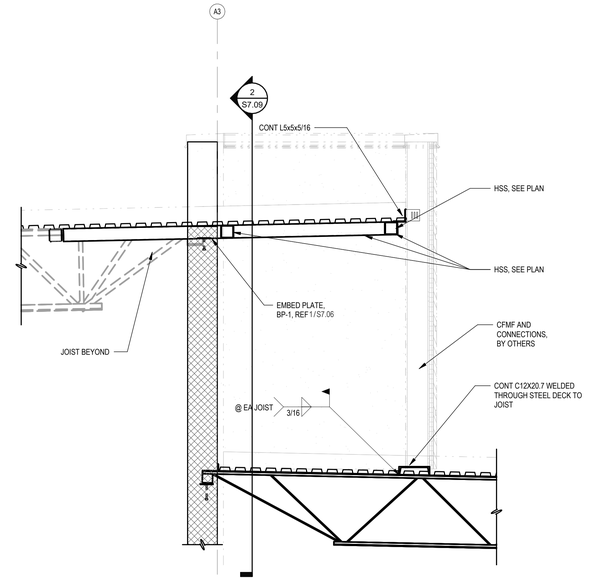


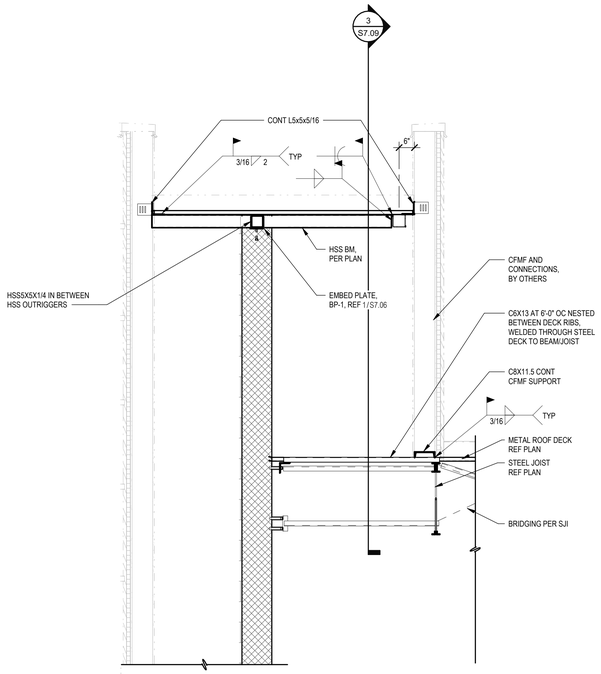
5 SECTION
S7.09 3/4" = 1'-0"



4 SECTION
S7.09 3/4" = 1'-0" BACK REF: S6.06



3 SECTION
S7.09 1/2" = 1'-0" BACK REF: S6.06



2 SECTION
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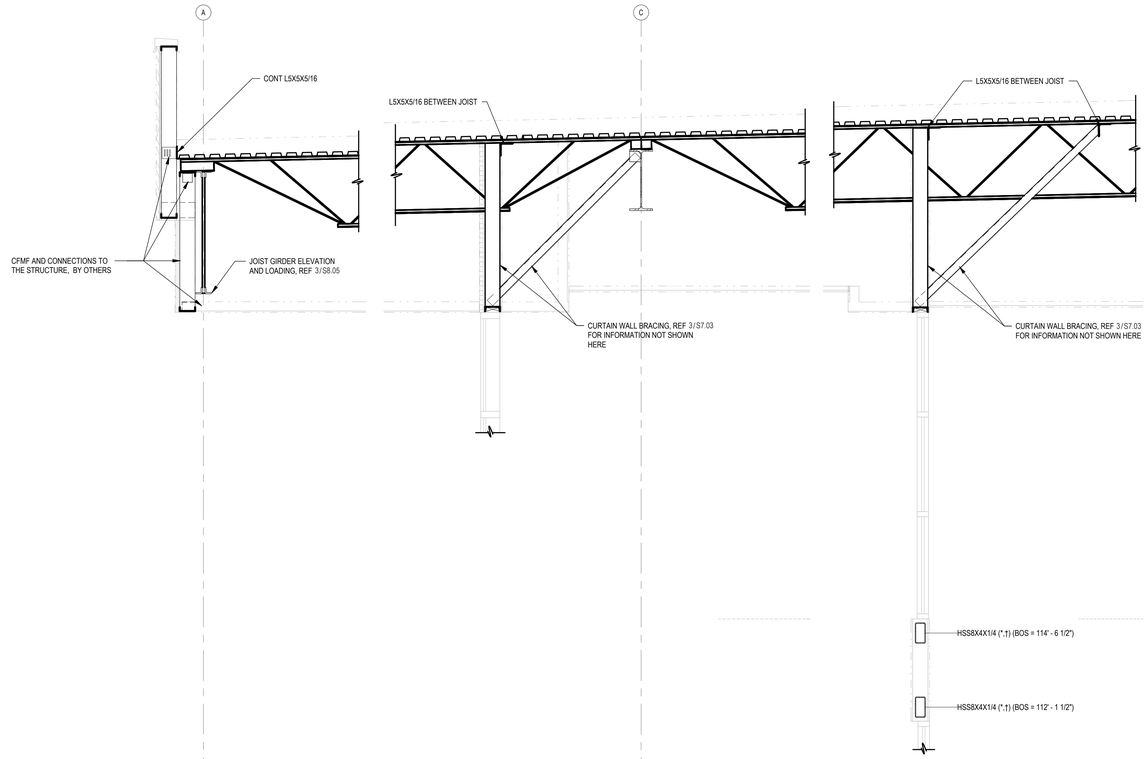

1 SECTION
S7.09 1/2" = 1'-0"

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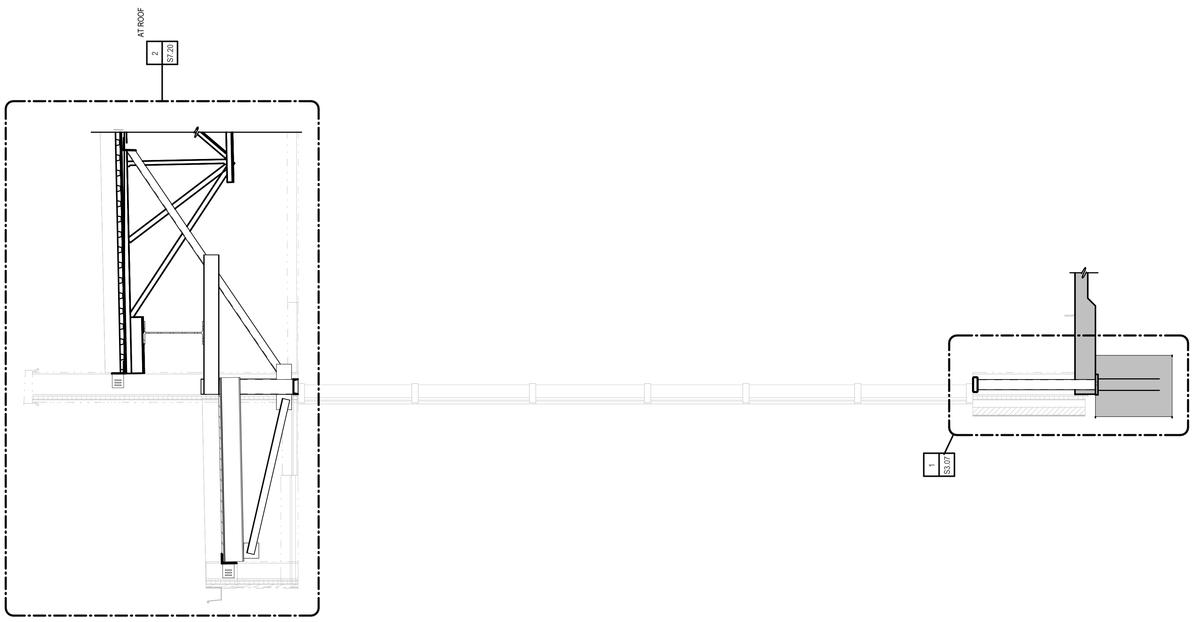
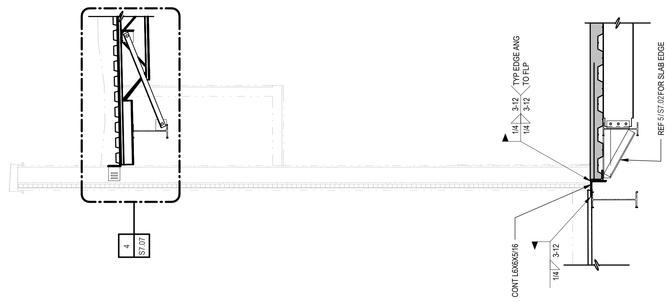


1 SECTION
S7.10 1/2" = 1'-0"



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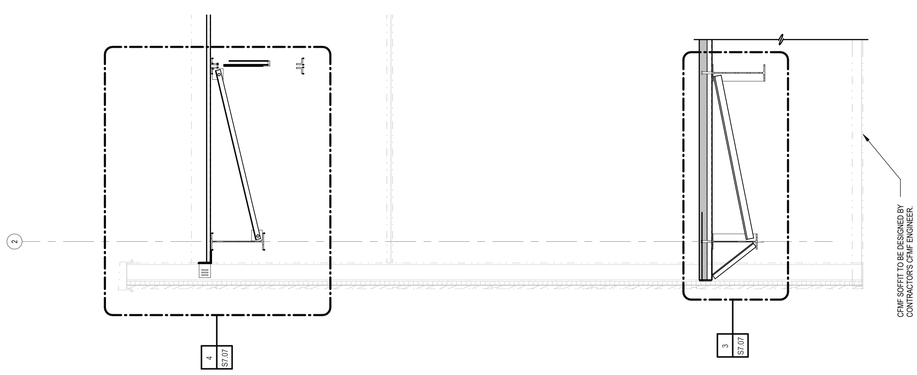
S7.10 1/2" = 1'-0" BACK REF: S6.01



3 SECTION
S7.10 1/2" = 1'-0" BACK REF: S6.04

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Sheet No. S7.10

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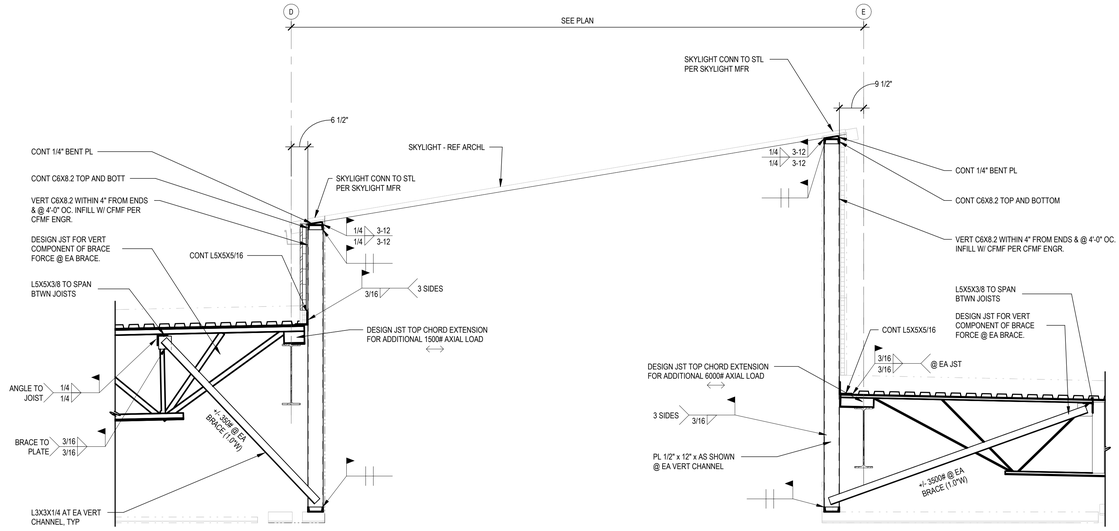
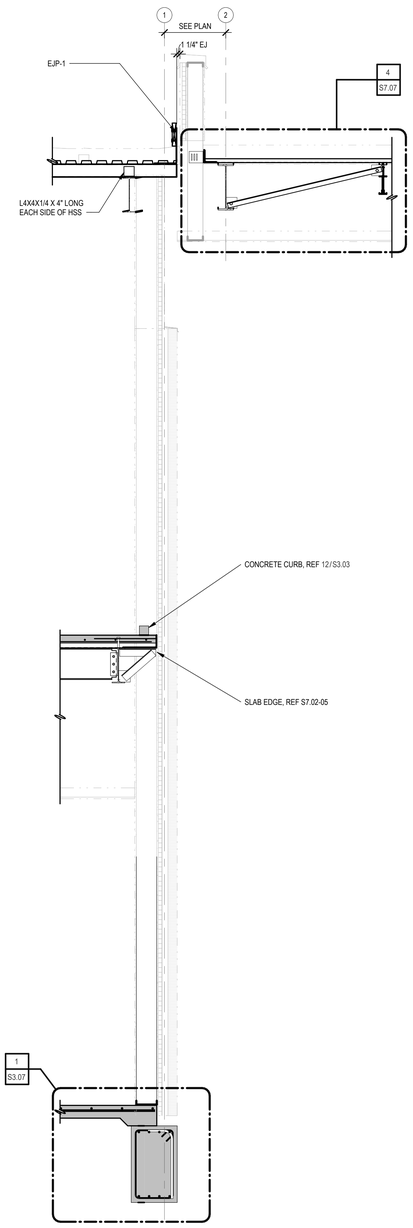
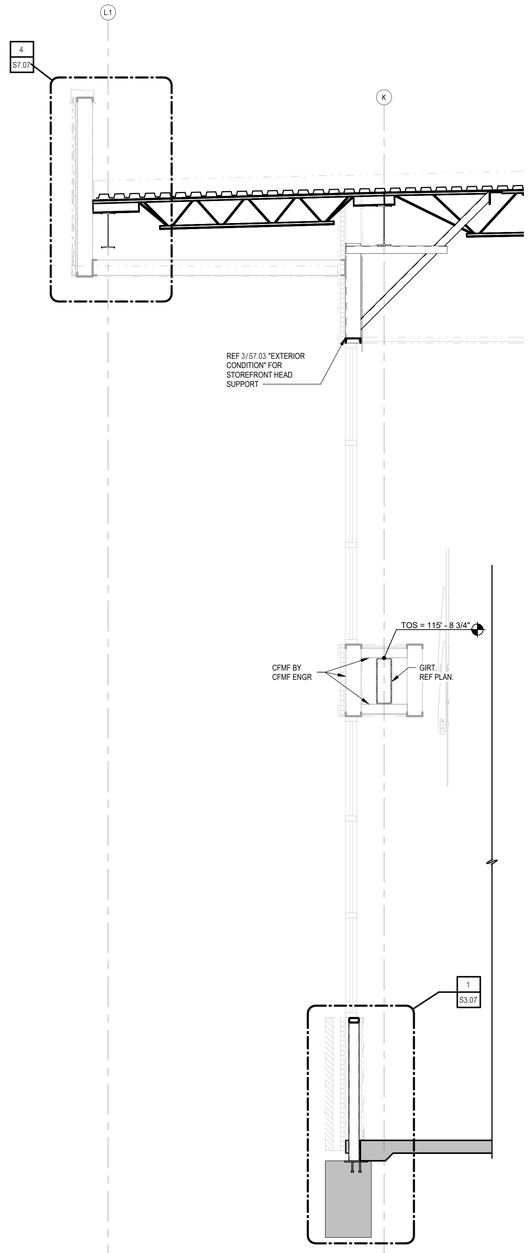
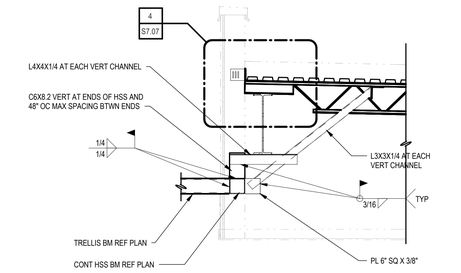


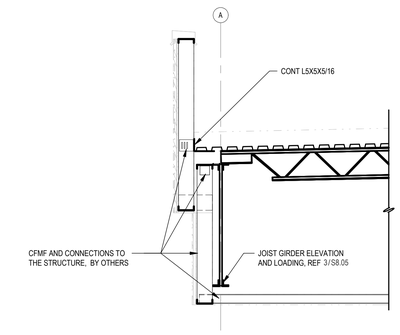
7 SECTION
S7.11 1/2" = 1'-0"



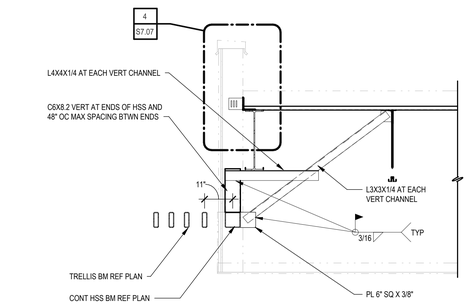




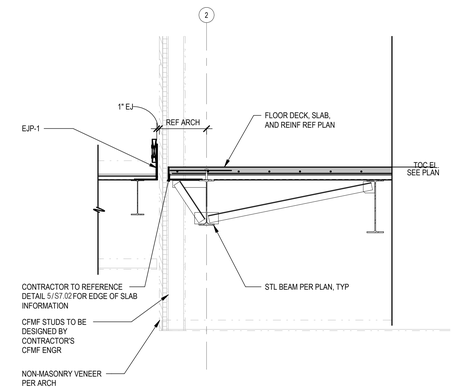
5 SECTION
S7.11 1/2" = 1'-0" BACK REF: S6.06



6 SECTION
S7.11 1/2" = 1'-0" BACK REF: S6.06



4 SECTION
S7.11 1/2" = 1'-0" BACK REF: S6.06



3 SECTION
S7.11 1/2" = 1'-0"

2 SECTION
S7.11 1/2" = 1'-0" BACK REF: S2.18

1 SECTION
S7.11 1/2" = 1'-0" BACK REF: S2.17

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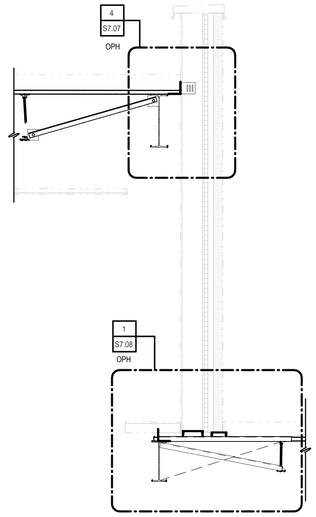
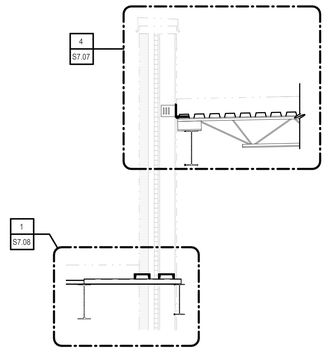


8 SECTION
S7.12 1/2" = 1'-0" BACK REF: S6.01



7 SECTION
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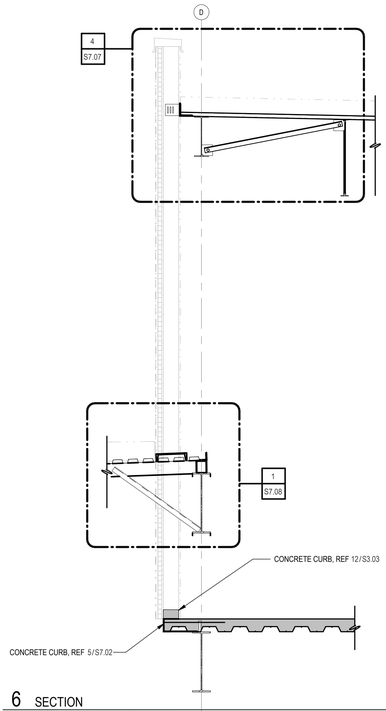
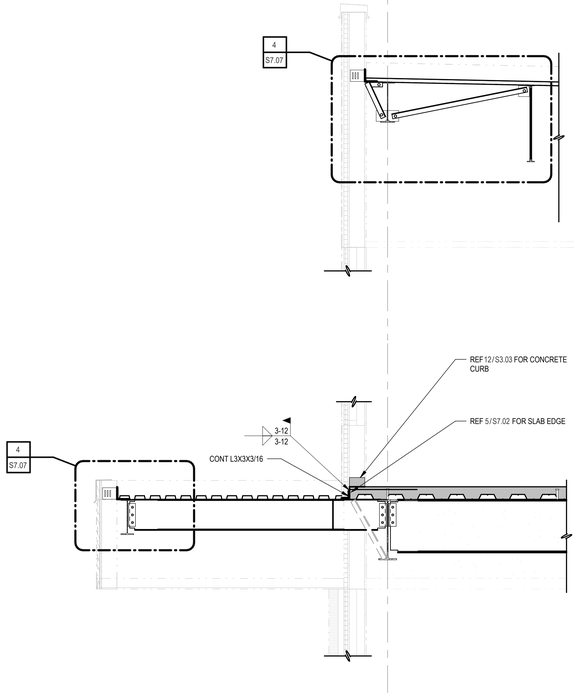


6 SECTION
S7.12 1/2" = 1'-0" BACK REF: S6.11



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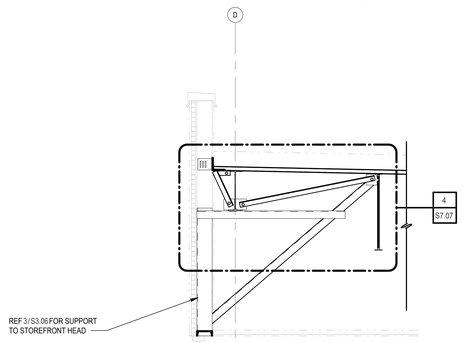
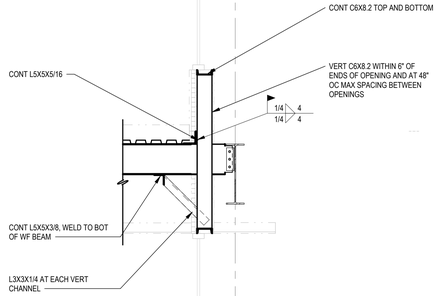
S7.12 1/2" = 1'-0" BACK REF: S6.11





4 SECTION
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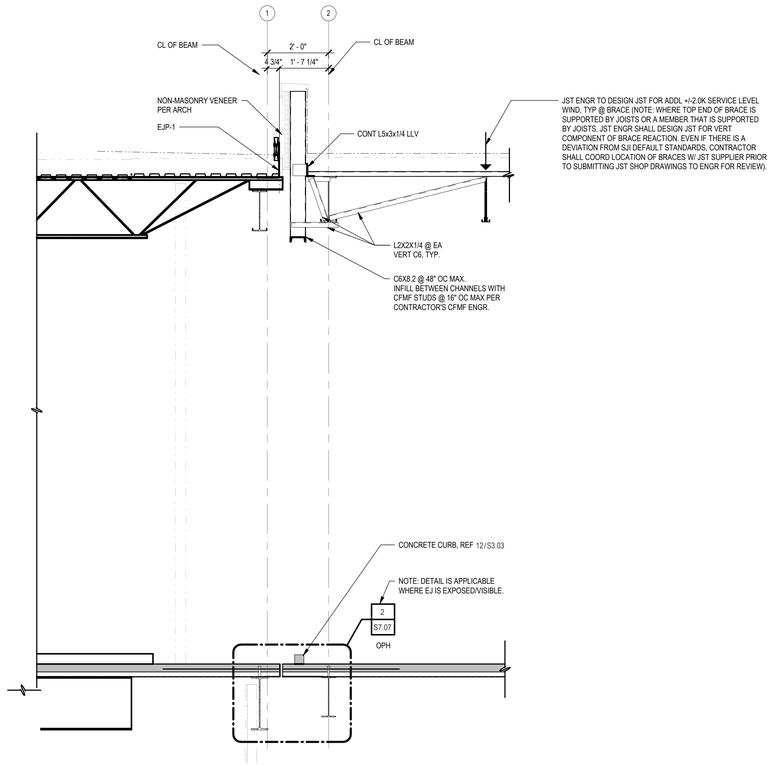

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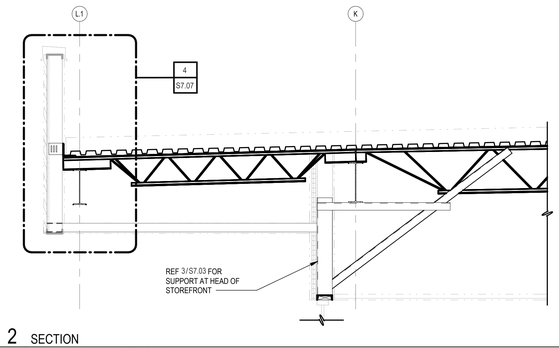

2 SECTION
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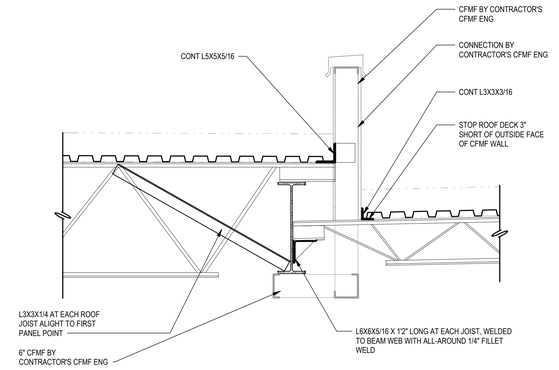

1 SECTION
S7.12 3/4" = 1'-0" BACK REF: S6.06

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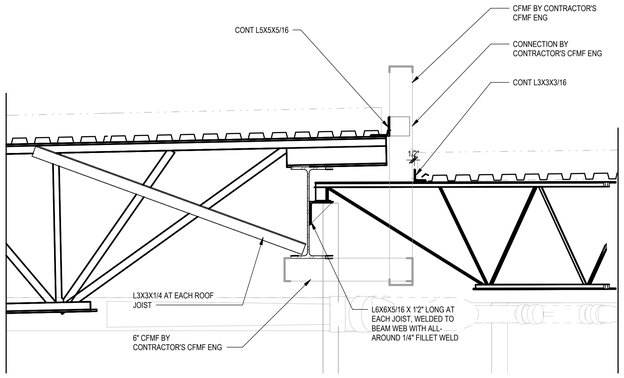

7 SECTION
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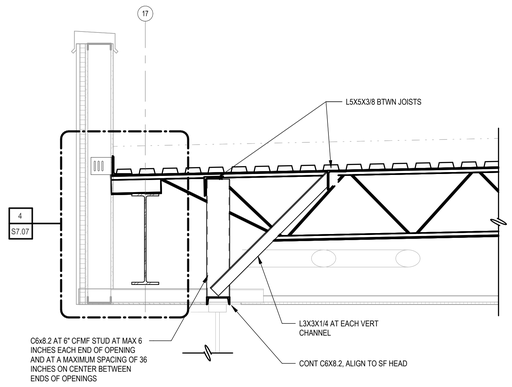
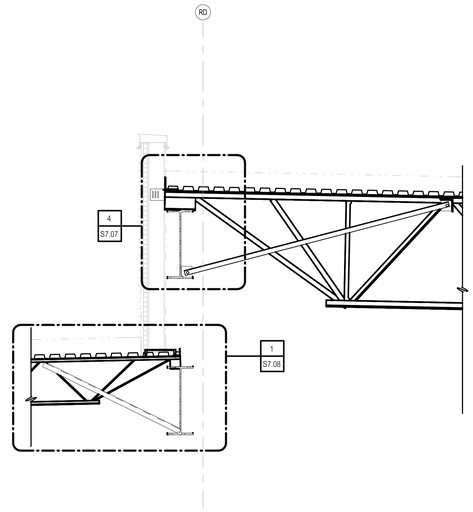


6 SECTION
S7.13 3/4" = 1'-0"



5 SECTION
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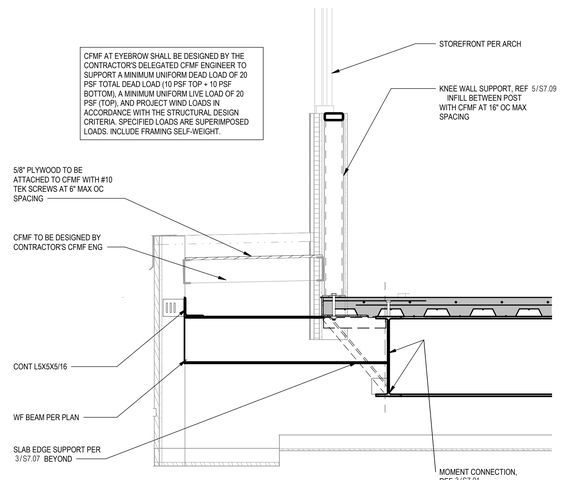
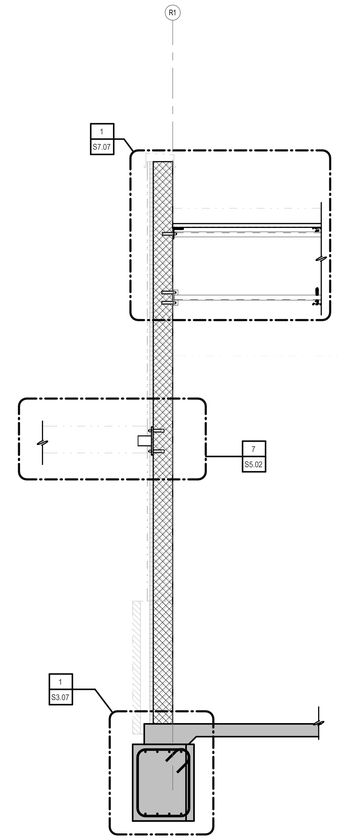
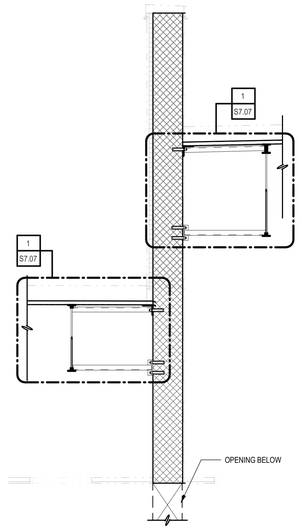


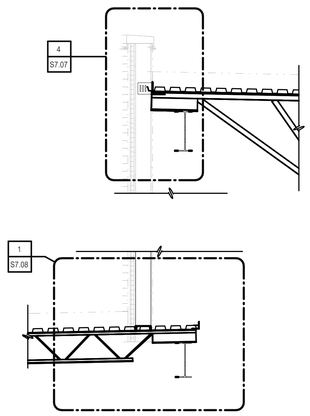
4 SECTION
S7.13 3/4" = 1'-0"



3 SECTION
S7.13 1/2" = 1'-0" BACK REF: S2.18



2 SECTION
S7.13 1/2" = 1'-0" BACK REF: S6.11



1 SECTION
S7.13 1/2" = 1'-0" BACK REF: S6.11

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Sheet No. S7.13

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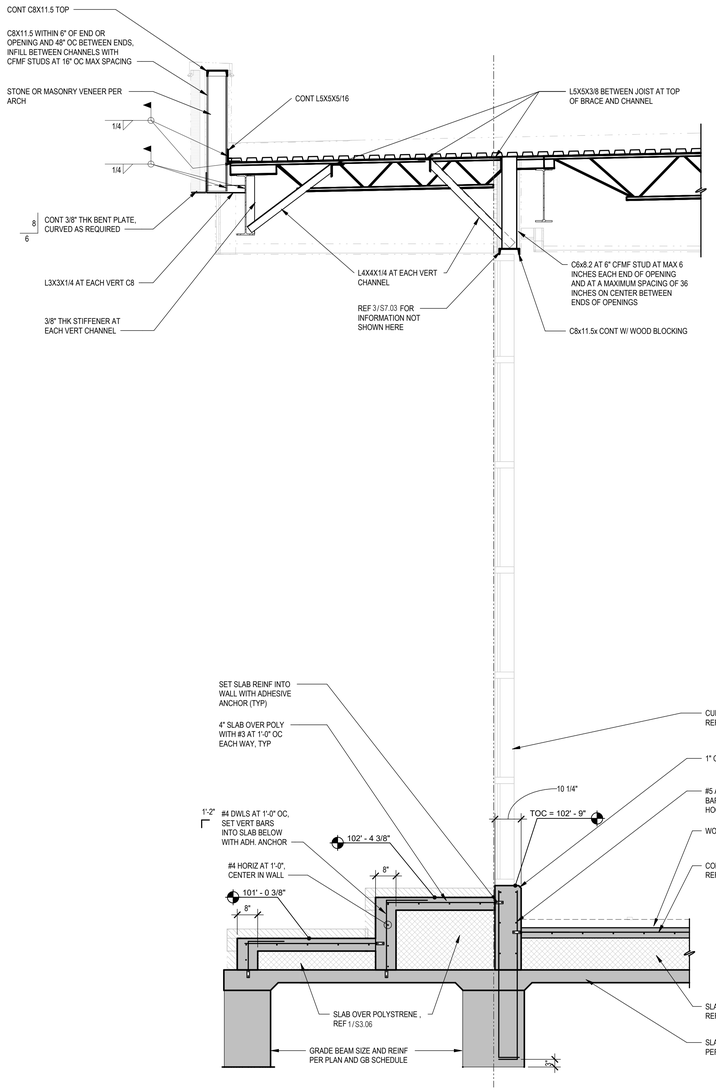
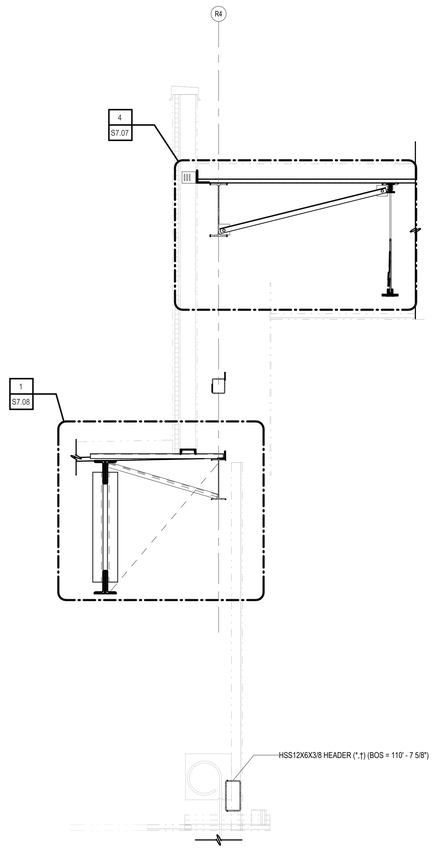
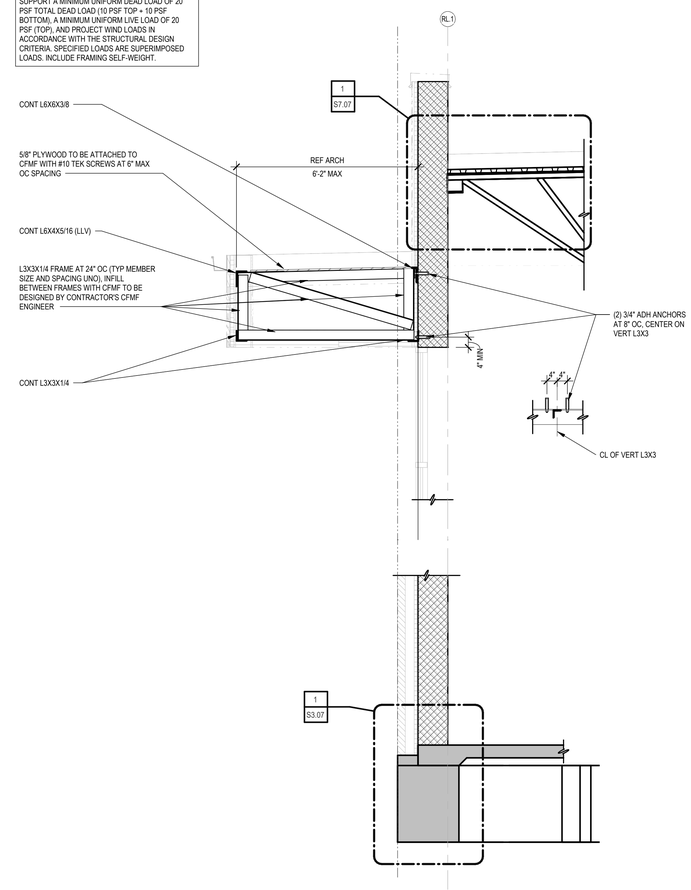


3 SECTION
S7.14 1/2" = 1'-0" BACK REF: S2.18

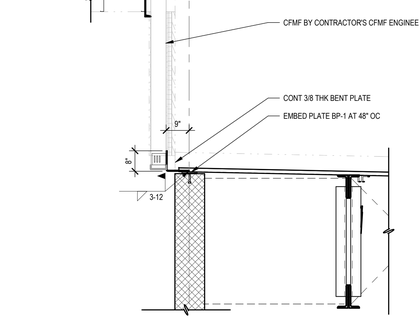


2 SECTION
S7.14 1/2" = 1'-0" BACK REF: S6.11

CFMF AT EYEBROW SHALL BE DESIGNED BY THE CONTRACTOR'S DELEGATED CFMF ENGINEER TO SUPPORT A MINIMUM UNIFORM DEAD LOAD OF 20 PSF TOTAL DEAD LOAD (10 PSF TOP + 10 PSF BOTTOM), A MINIMUM UNIFORM LIVE LOAD OF 20 PSF (TOP), AND PROJECT WIND LOADS IN ACCORDANCE WITH THE STRUCTURAL DESIGN CRITERIA. SPECIFIED LOADS ARE SUPERIMPOSED LOADS. INCLUDE FRAMING SELF-WEIGHT.



1 SECTION
S7.14 1/2" = 1'-0" BACK REF: S2.18



4 SECTION
S7.14 1/2" = 1'-0" BACK REF: S6.11

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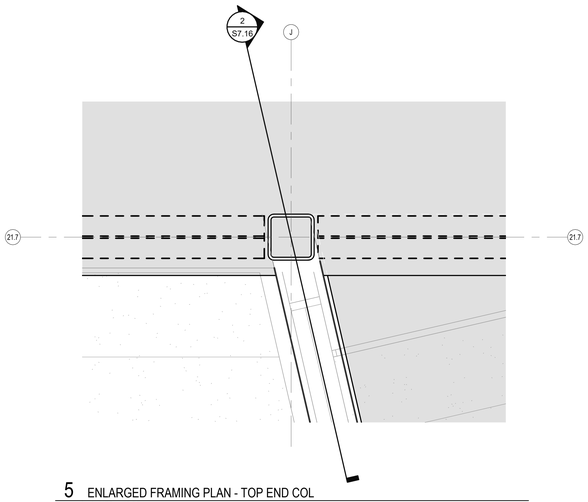
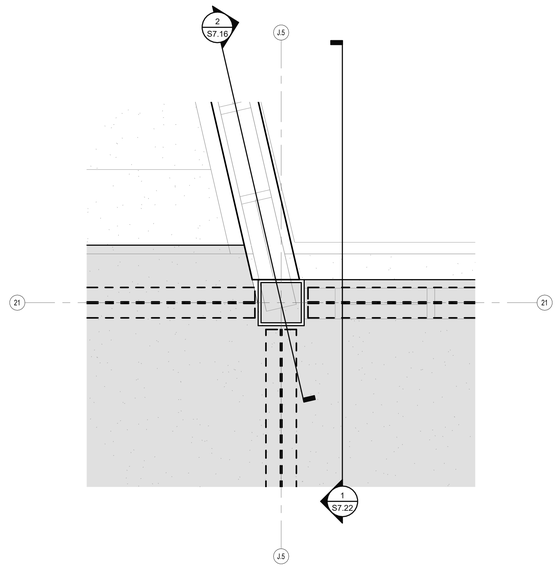
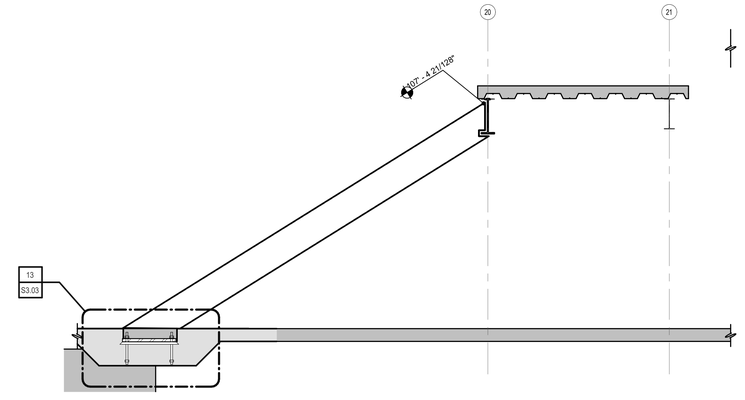


5 ENLARGED FRAMING PLAN - TOP END COL
S7.15 1 1/2" = 1'-0"



4 ENLARGED FRAMING PLAN - CORNER COL
S7.15 1 1/2" = 1'-0"



3 SECTION
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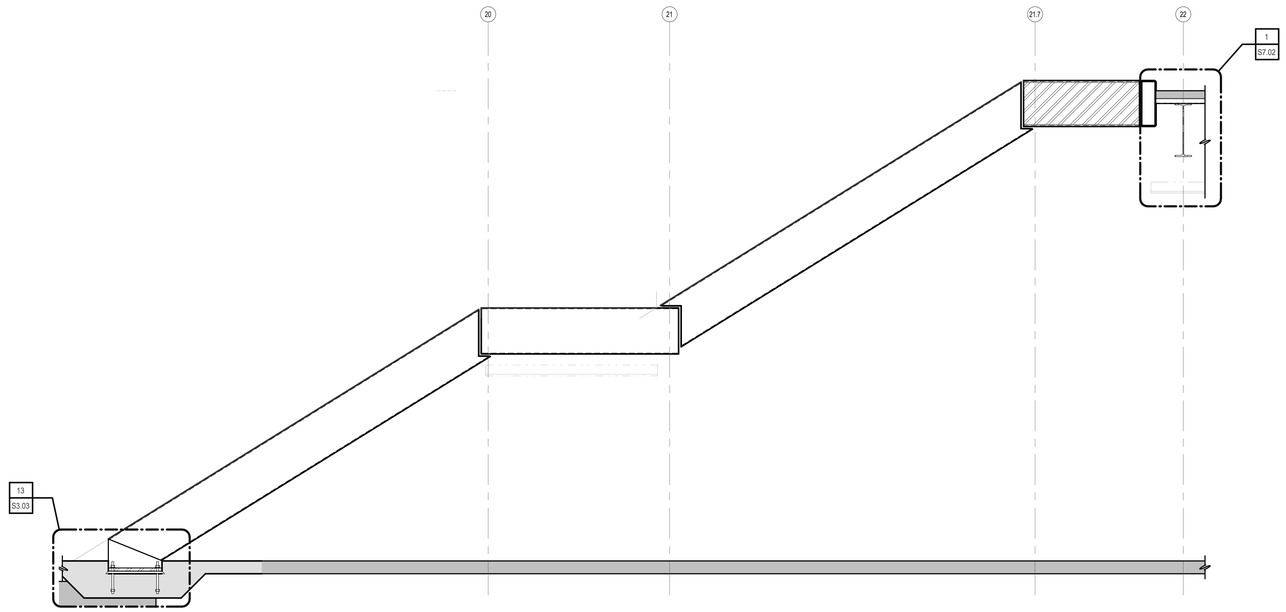

2 SECTION
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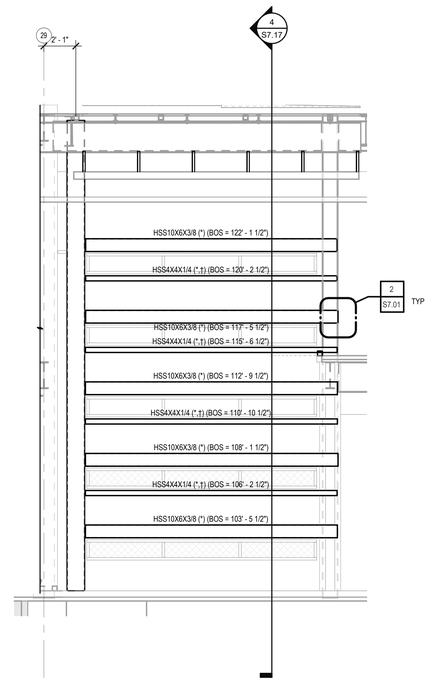

1 WALL ELEVATION
S7.15 1/4" = 1'-0"

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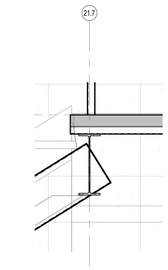

9 SECTION
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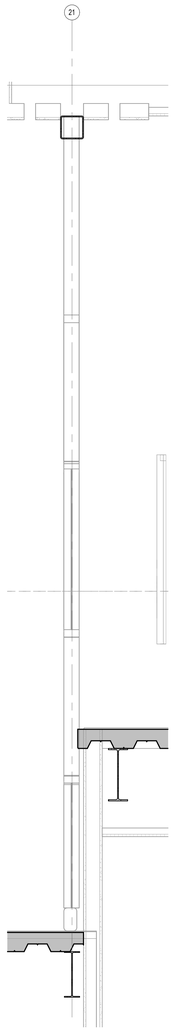

3 SECTION
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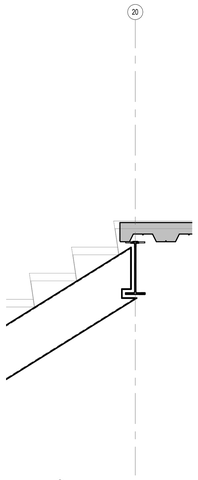

8 SECTION
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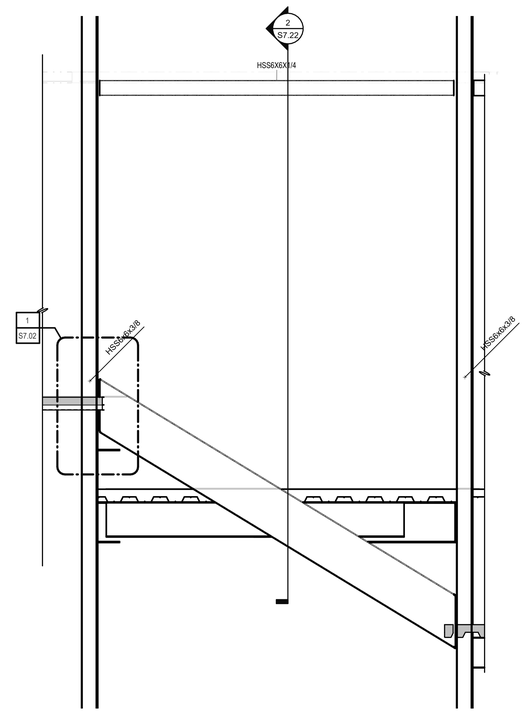

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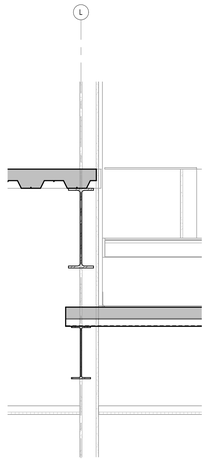

7 SECTION
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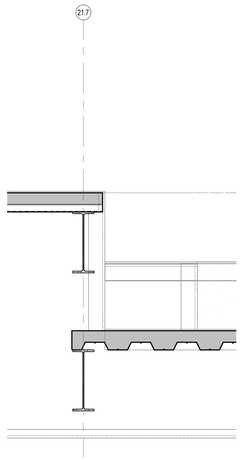

6 SECTION
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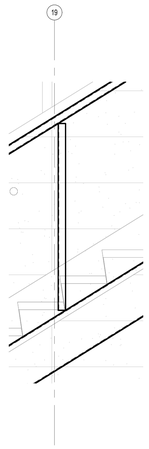

5 SECTION
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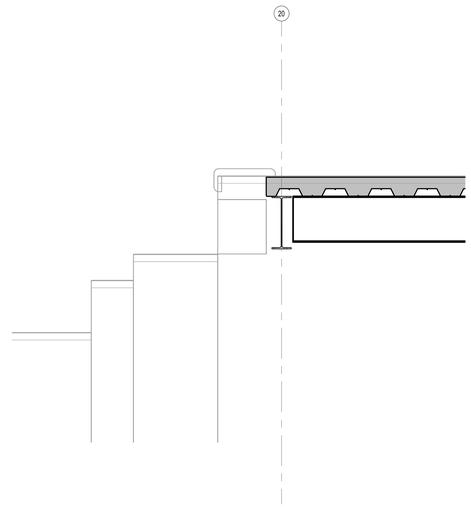

4 SECTION
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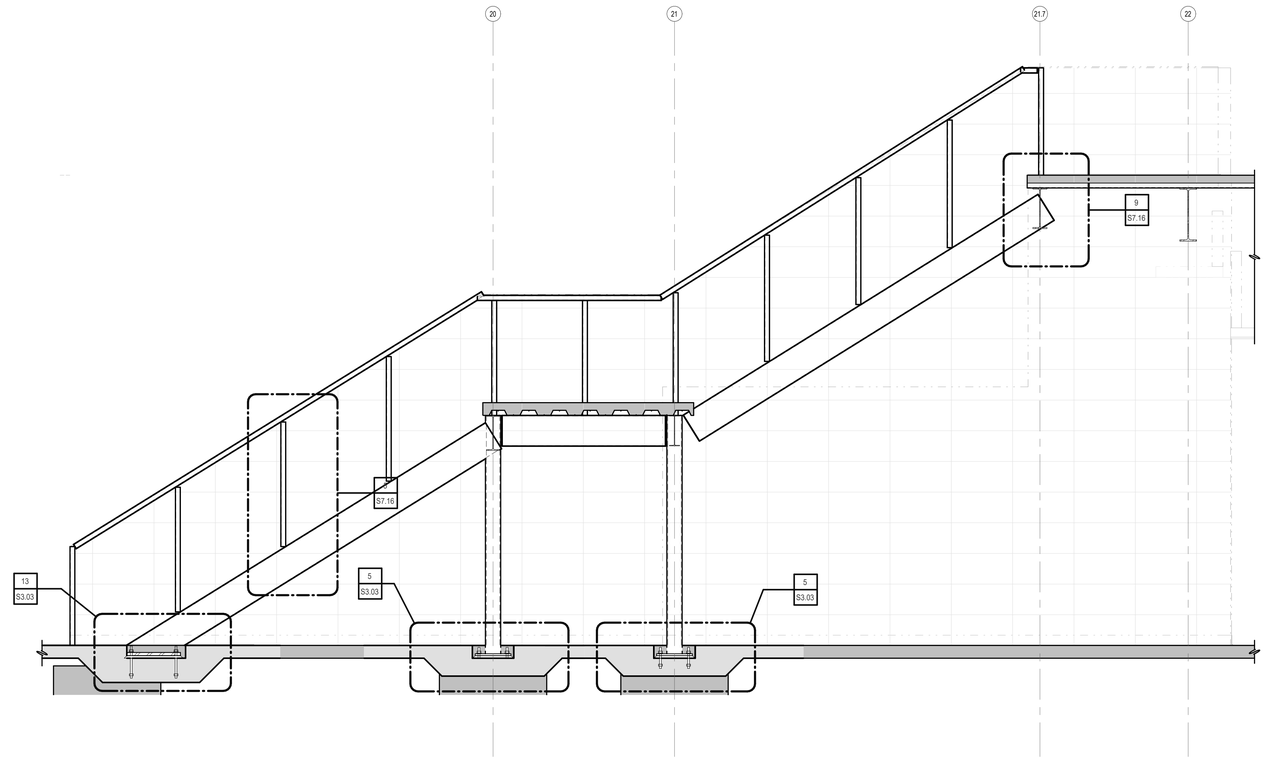

1 SECTION
S7.16 1/2" = 1'-0"

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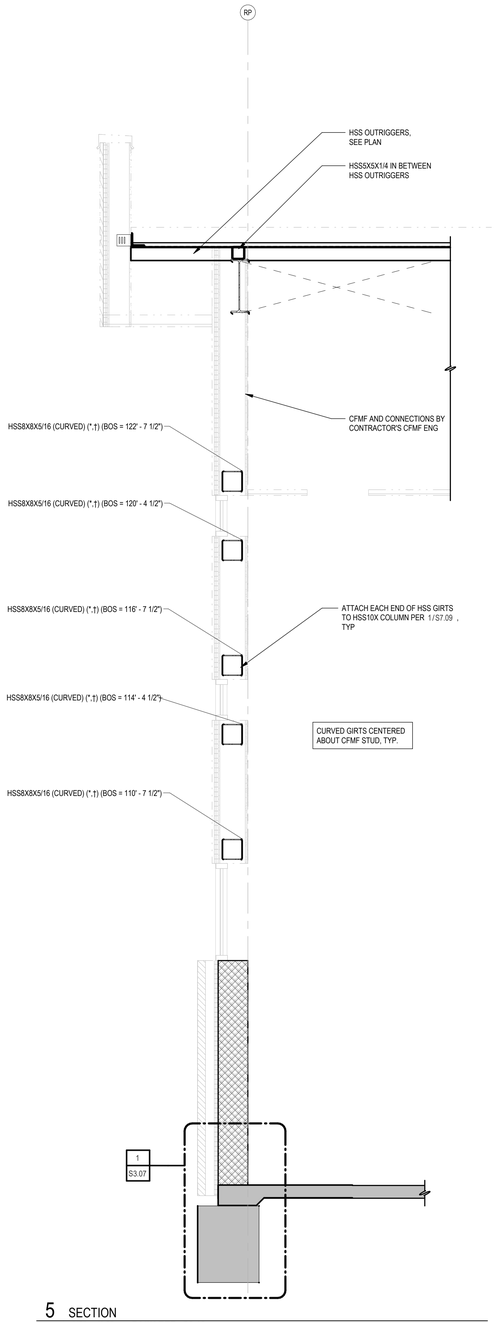

5 SECTION
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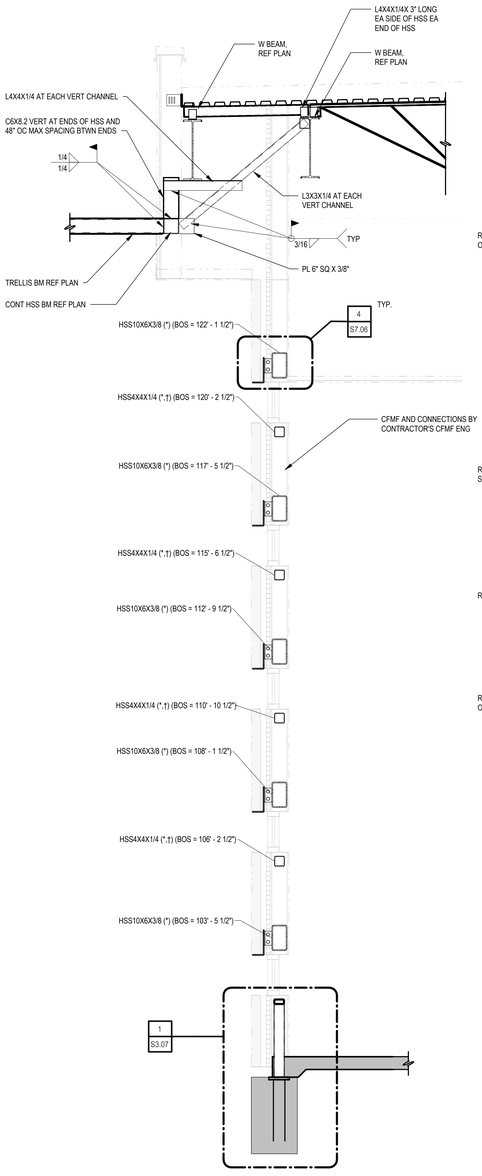

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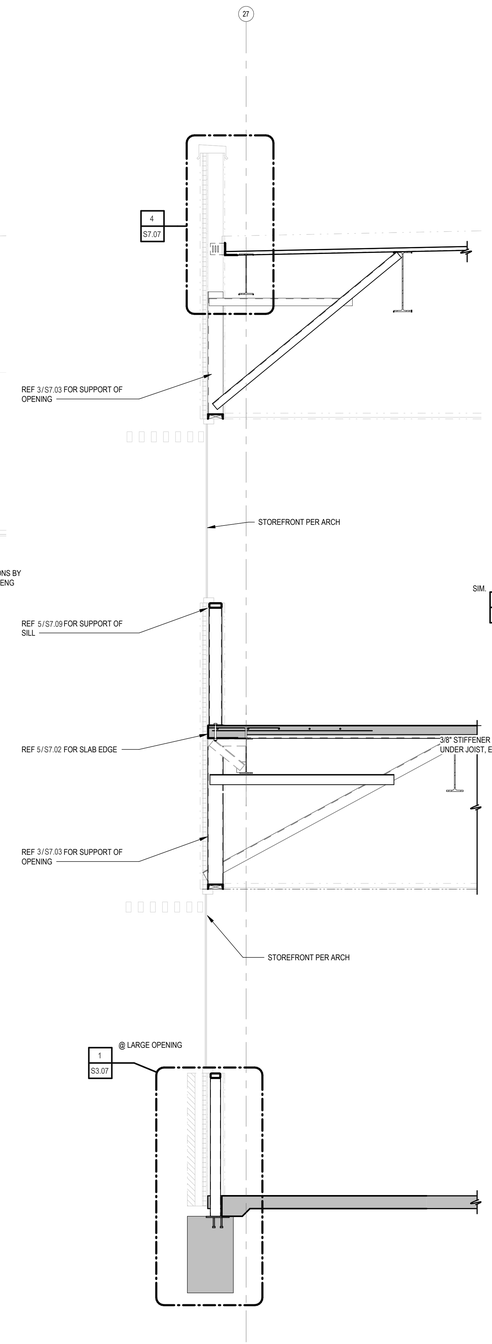

3 SECTION
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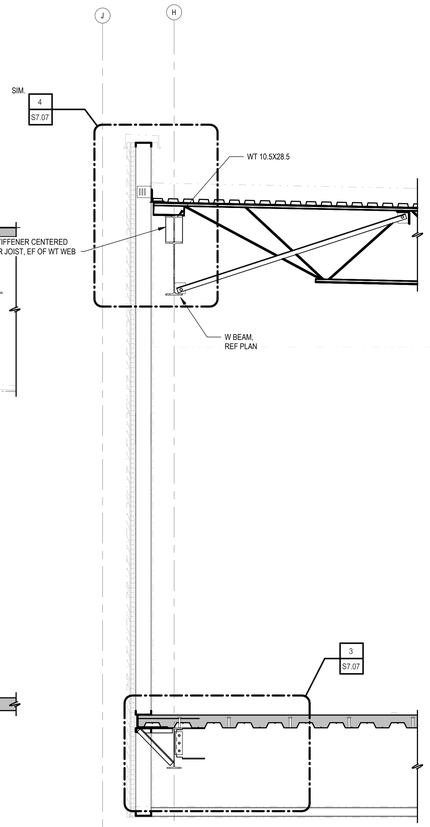

2 SECTION
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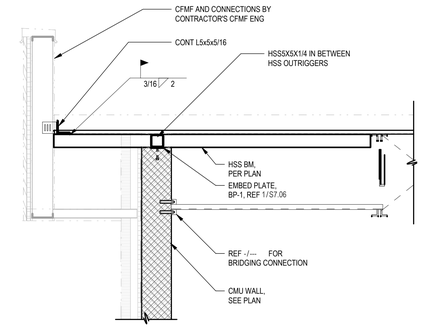

6 SECTION
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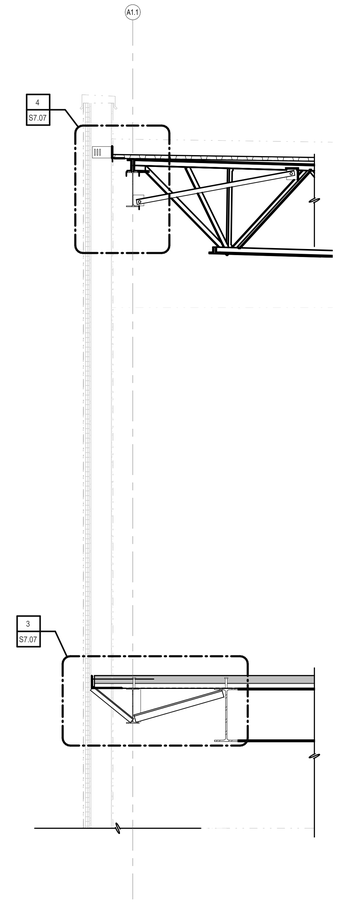

1 SECTION
S7.17 1/2" = 1'-0" BACK REF: S6.01

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Date: 07.15.26
Sheet No. S7.17

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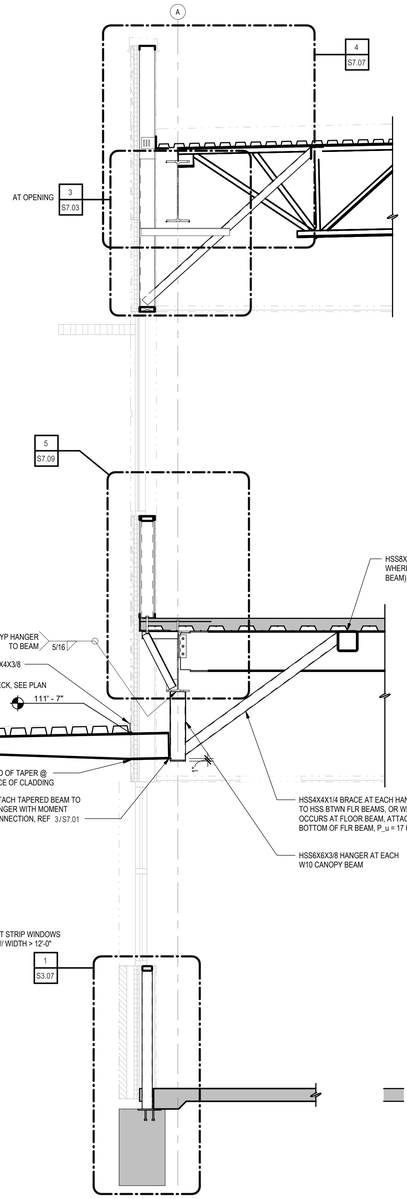

4 SECTION
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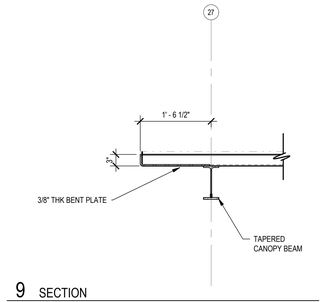
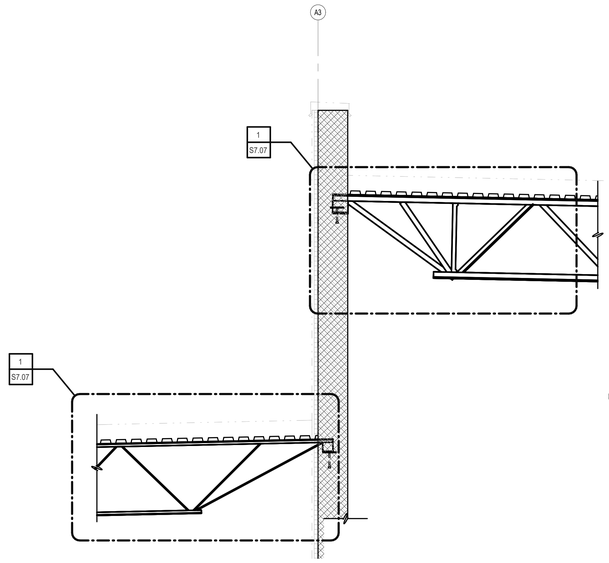


9 SECTION
S7.18 3/4" = 1'-0"



8 SECTION
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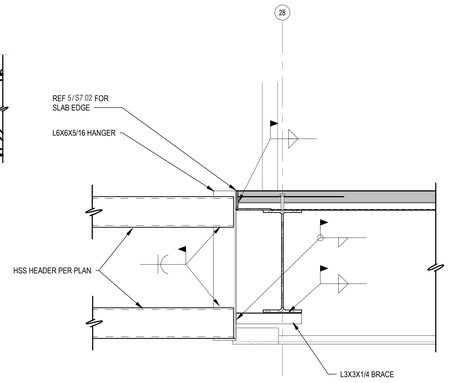

6 SECTION
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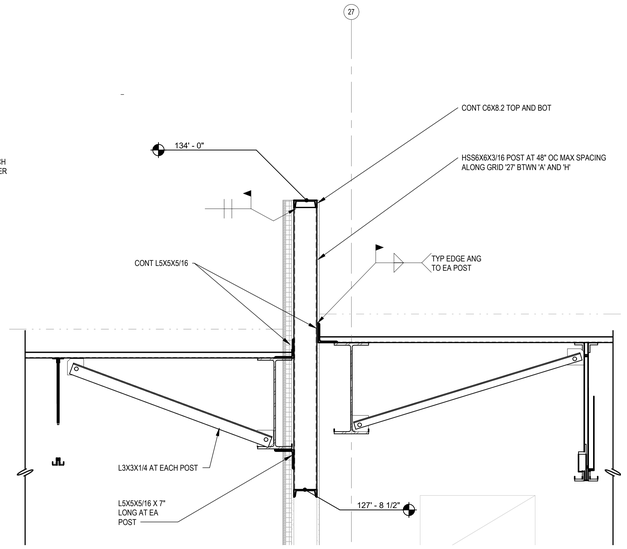

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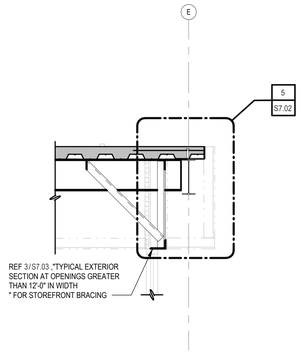
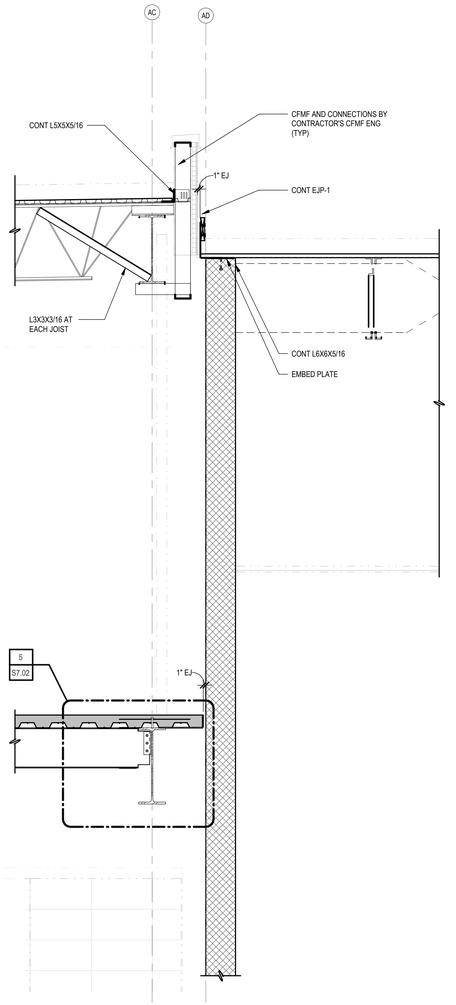
S7.18 3/4" = 1'-0" BACK REF: S6.06



2 SECTION
S7.18 1/2" = 1'-0" BACK REF: S6.01



1 SECTION
S7.18 1/2" = 1'-0" BACK REF: S6.01

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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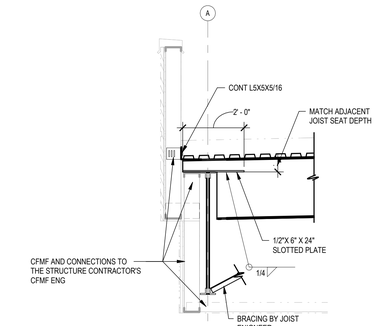

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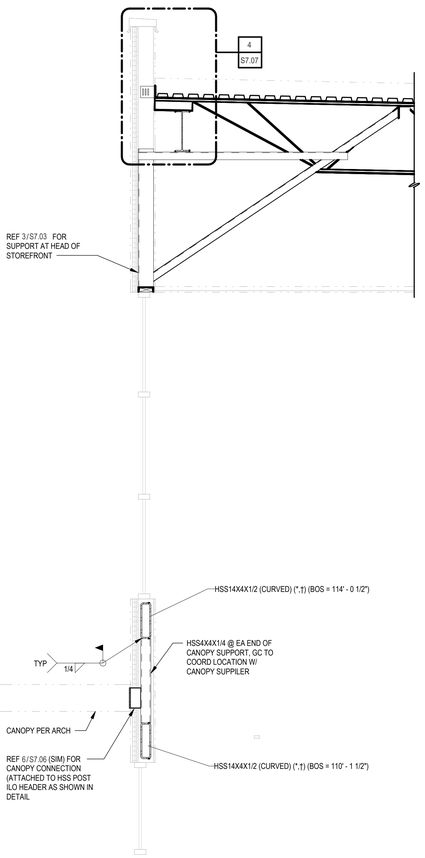

4 SECTION
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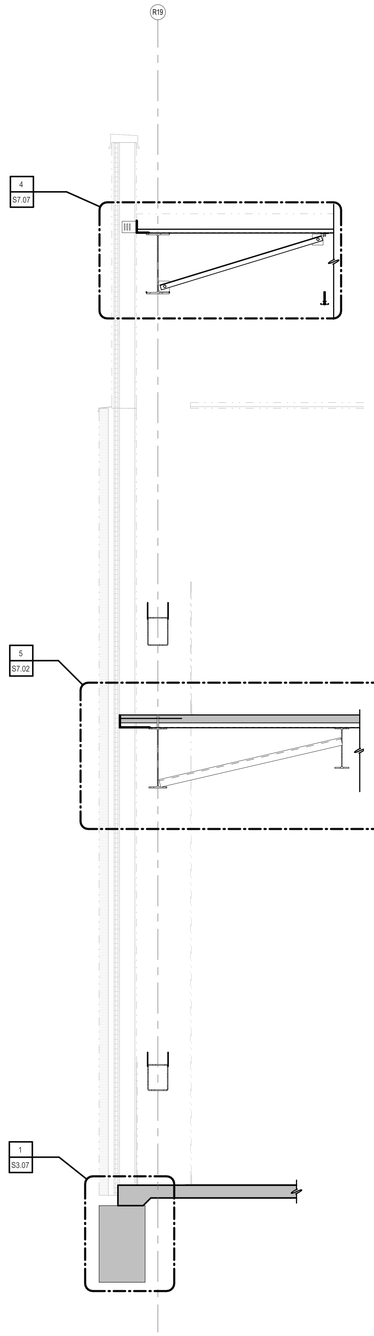

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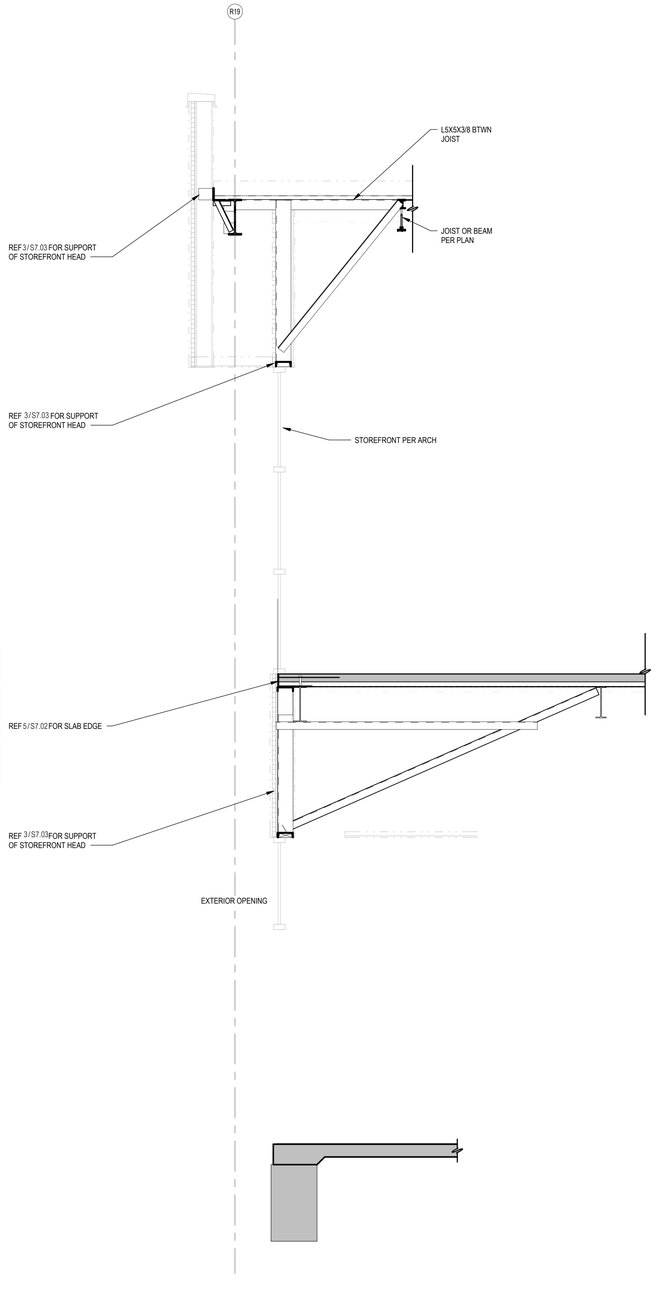
S7.19 1/2" = 1'-0" BACK REF: S2.13



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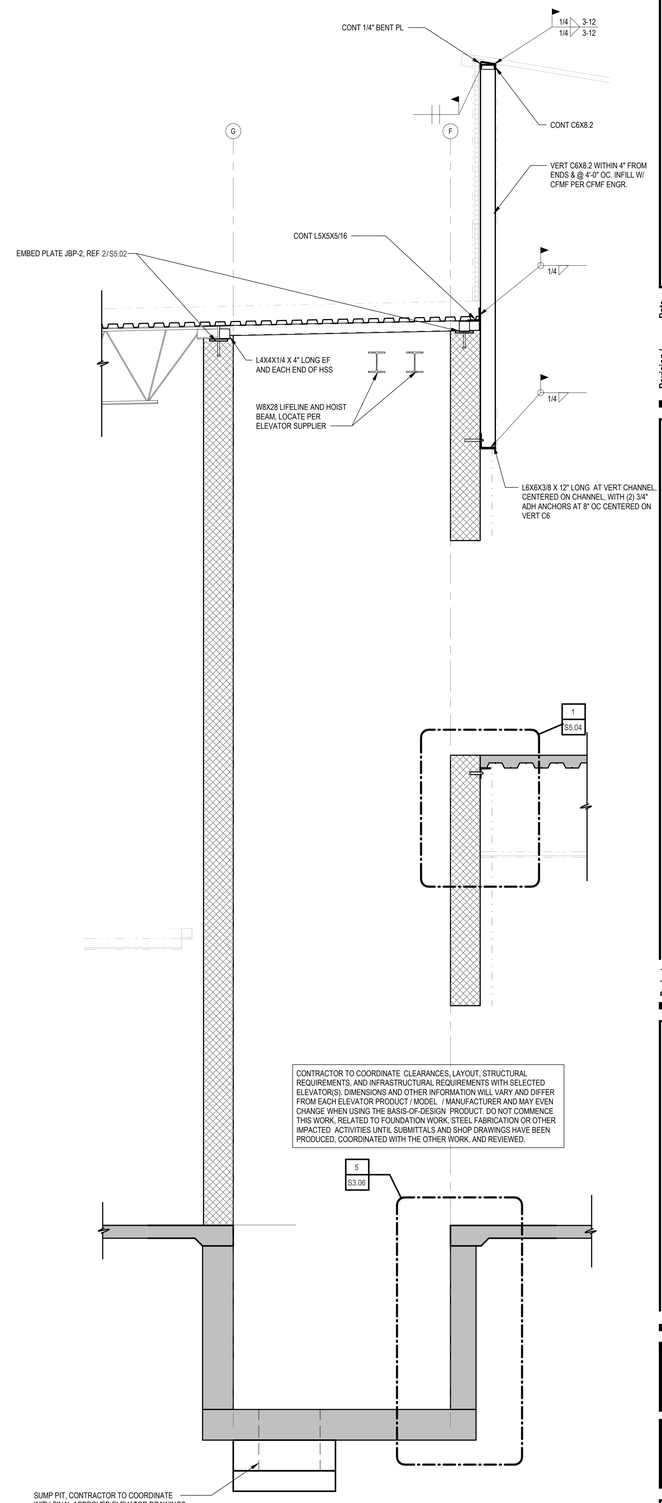
S7.19 1/2" = 1'-0" BACK REF: S2.13



1 SECTION
S7.19 1/2" = 1'-0" BACK REF: S2.15

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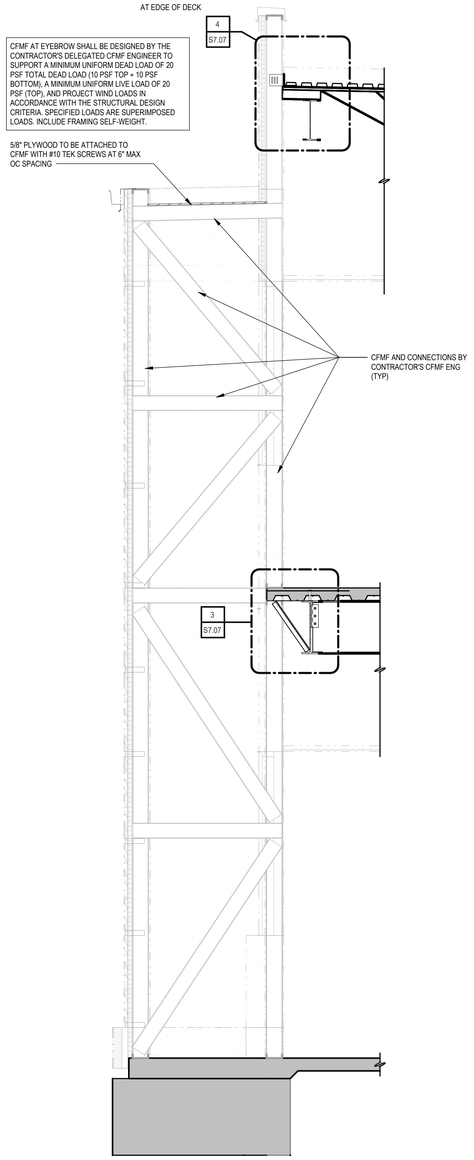

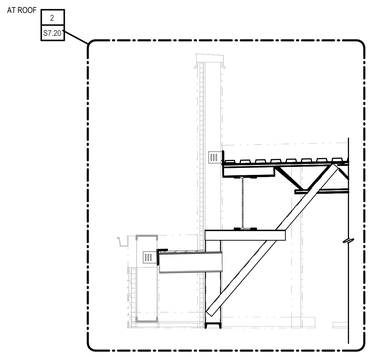

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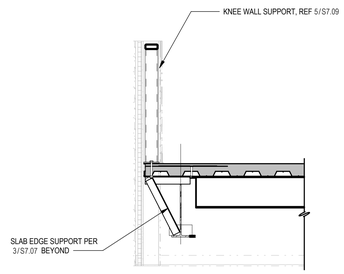

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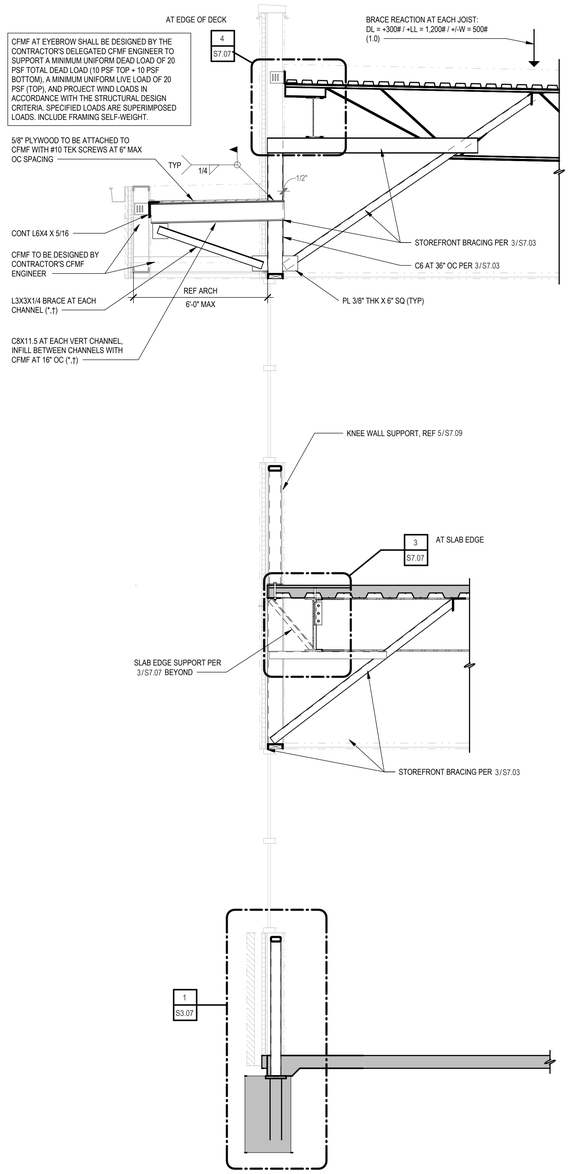
S7.20 1/2" = 1'-0" BACK REF: S6.03



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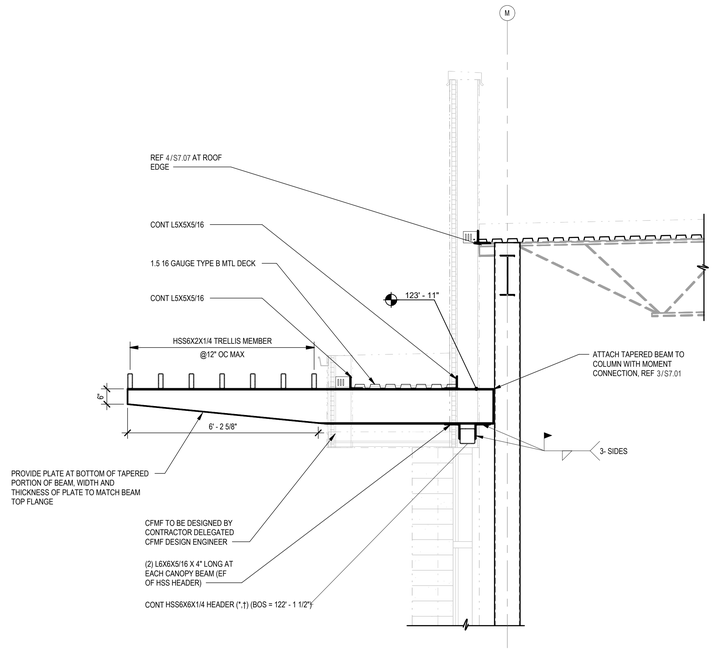

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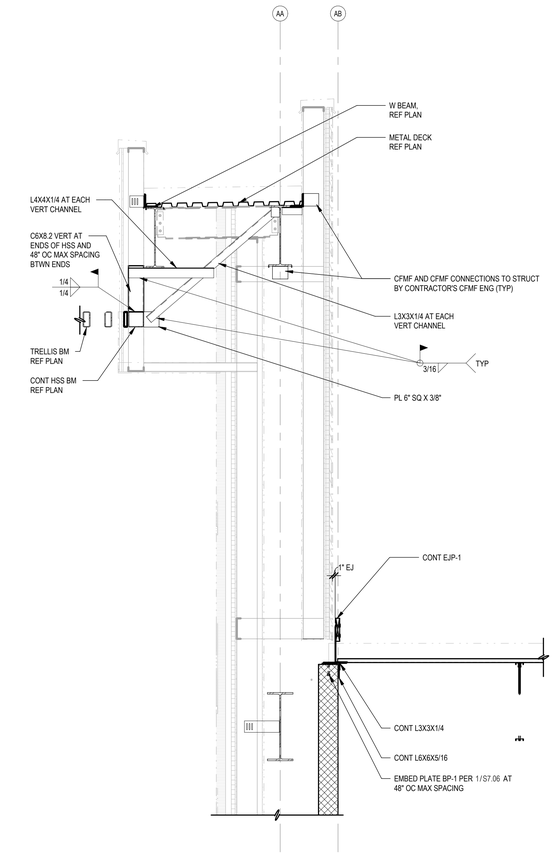

1 SECTION
S7.20 1/2" = 1'-0" BACK REF: S6.01

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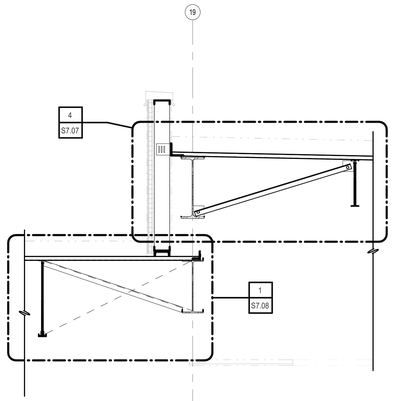

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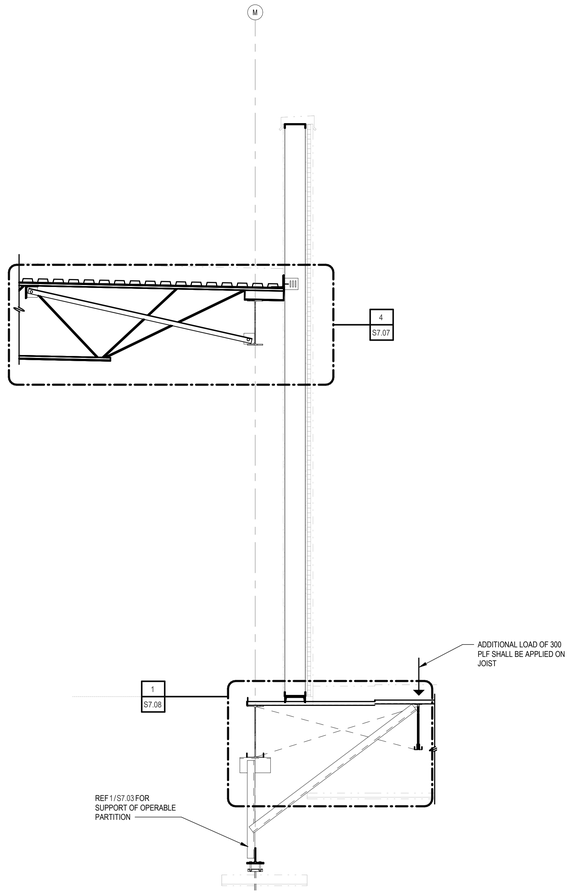
S7.21 1/2" = 1'-0" BACK REF: S6.03



3 SECTION
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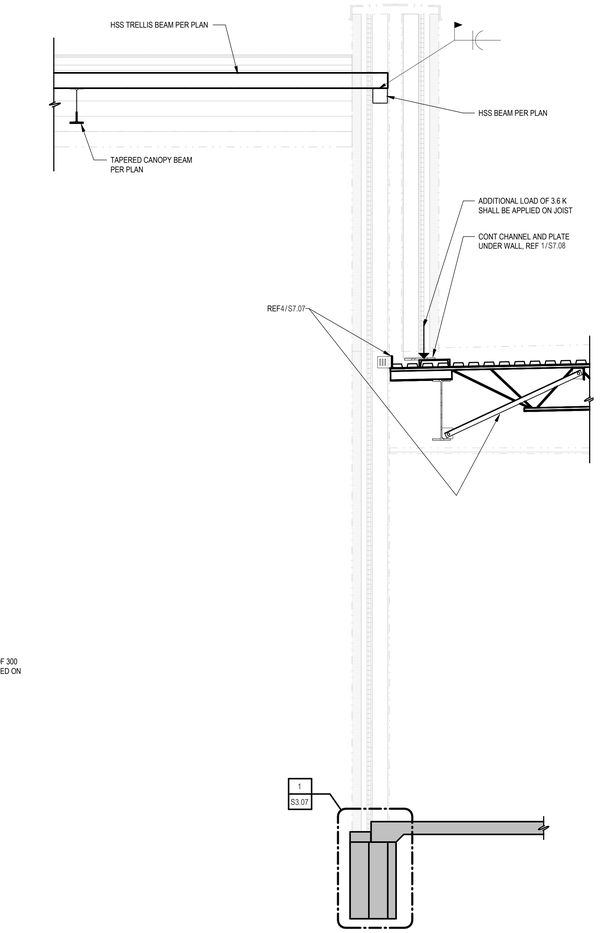

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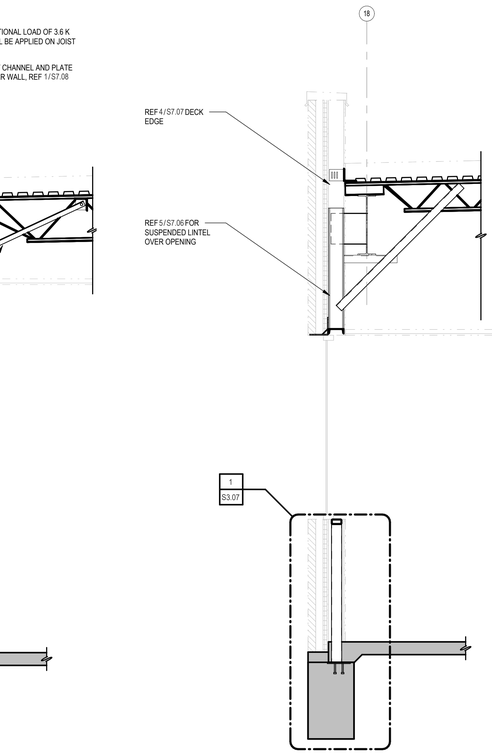
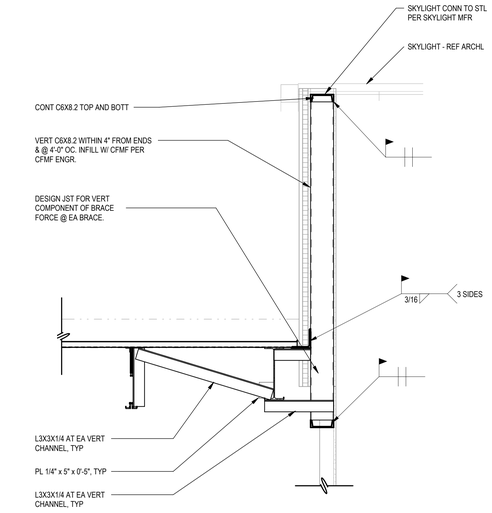


1 SECTION
S7.21 1/2" = 1'-0" BACK REF: S2.15



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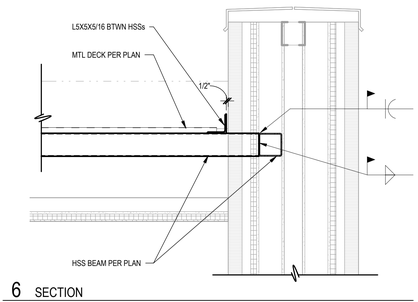
S7.21 3/4" = 1'-0"



6 SECTION
S7.21 3/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
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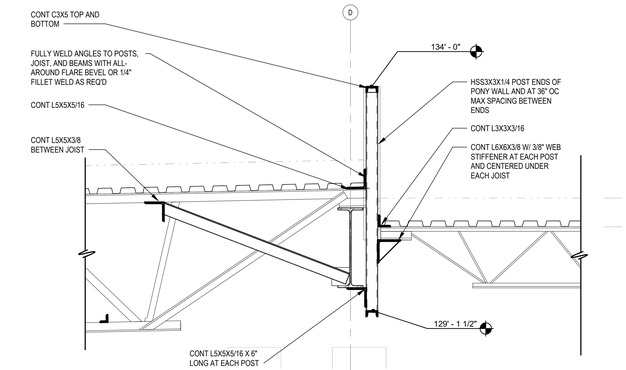

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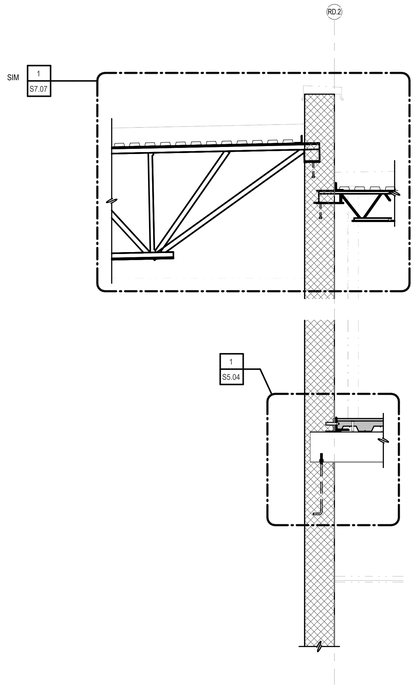

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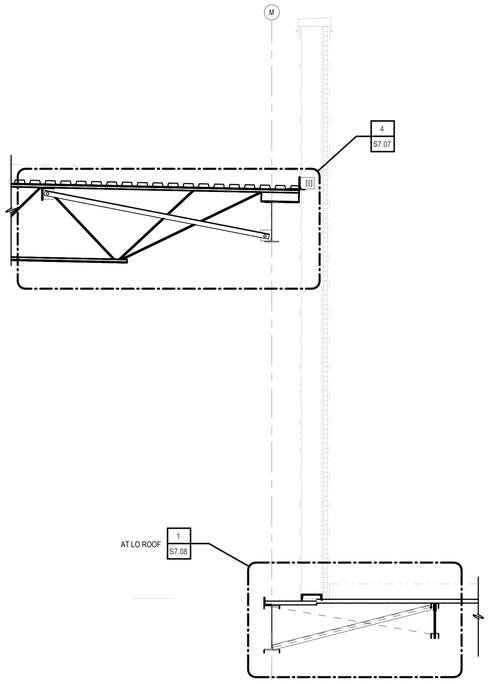
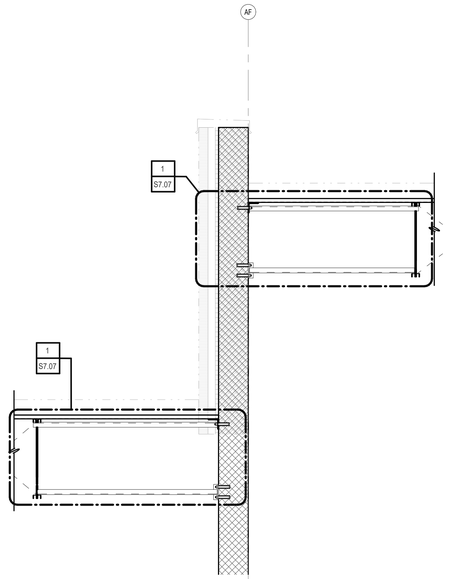


6 SECTION
S7.22 1/2" = 1'-0" BACK REF: S6.03



5 SECTION
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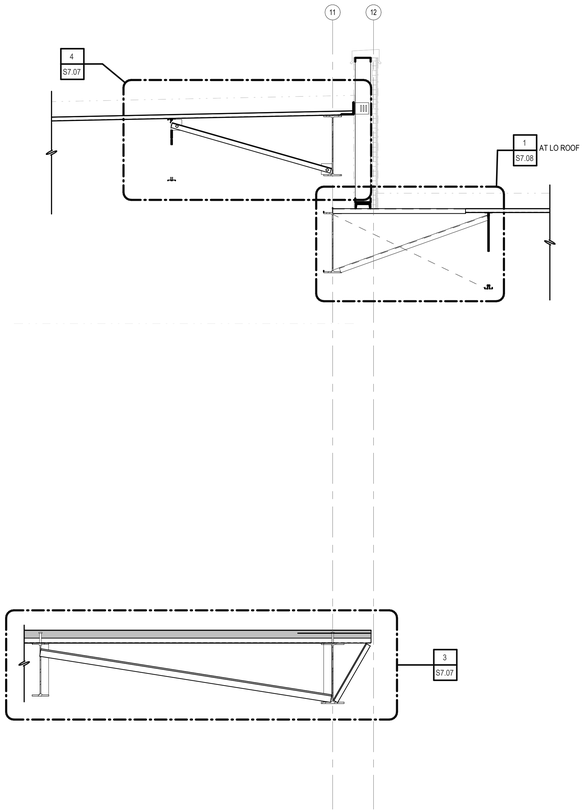

4 SECTION
S7.22 1/2" = 1'-0" BACK REF: S6.05

3 SECTION
S7.22 1/2" = 1'-0" BACK REF: S6.01

2 SECTION
S7.22 1/2" = 1'-0" BACK REF: S6.13

1 SECTION
S7.22 1/2" = 1'-0" BACK REF: S6.13

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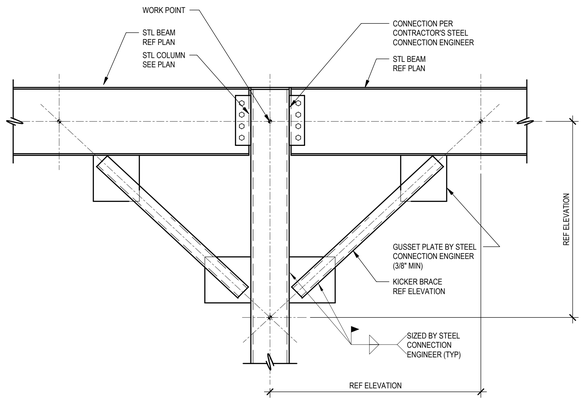
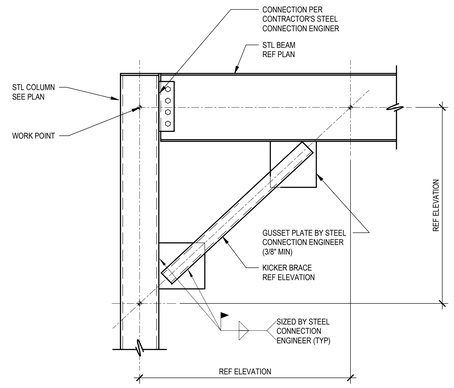
BRACE FRAME CONNECTION DETAIL NOTES:
1. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
2. DETAILS PROVIDED HERE ARE CONCEPTUAL IN NATURE. ELEMENT SIZES (e.g. PLATE SIZES, BOLT DIA, WELD SIZES AND LENGTHS, ETC.) SHALL BE CONSIDERED MINIMUMS AND ARE TO BE DETERMINED BY CONTRACTOR'S CONNECTION ENGINEER.
3. REF PLANS FOR BEAM REACTIONS. REFER TO TYPICAL STRUCTURAL STEEL CONNECTION DETAILS FOR ADDITIONAL INFORMATION NOT PROVIDED HERE.
4. REF BRACE ELEVATIONS FOR BRACE REACTIONS.



13 BRACE FRAME DETAIL - KICKER BRACE
S8.01 3/4" = 1'-0"



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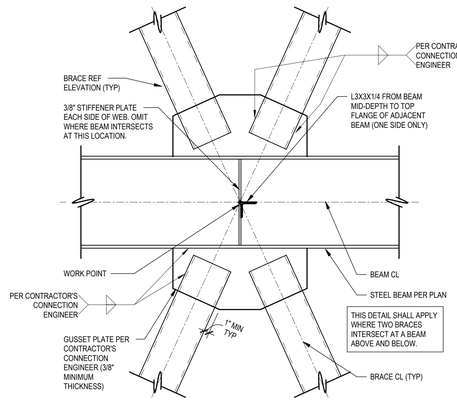
S8.01 3/4" = 1'-0"



11 BRACE FRAMING DETAIL - X-BRACING AT INTERMEDIATE BEAM
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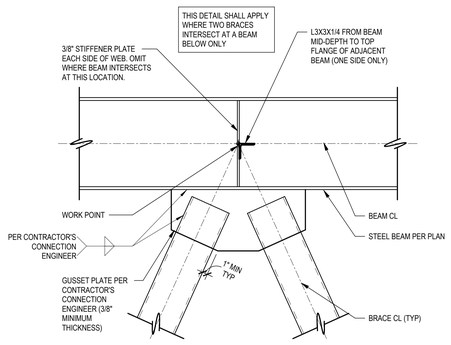

10 BRACE FRAMING DETAIL - X-BRACING AT MID BEAM
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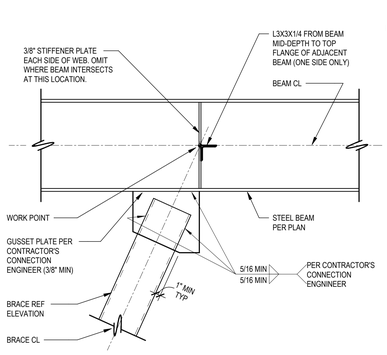

9 BRACE FRAMING DETAIL - X-BRACING AT SPLIT MID BEAM
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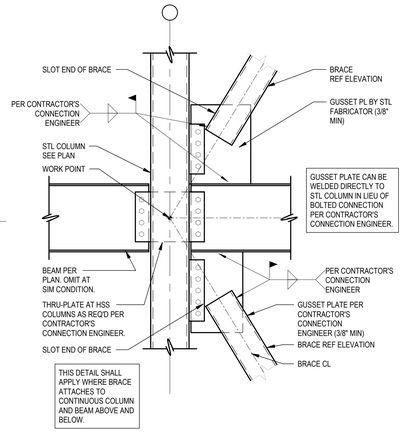
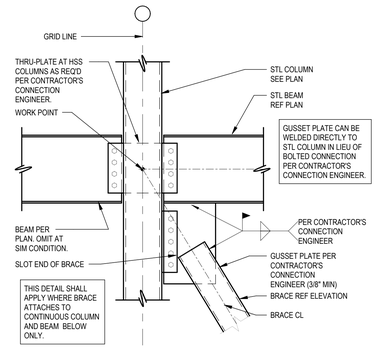
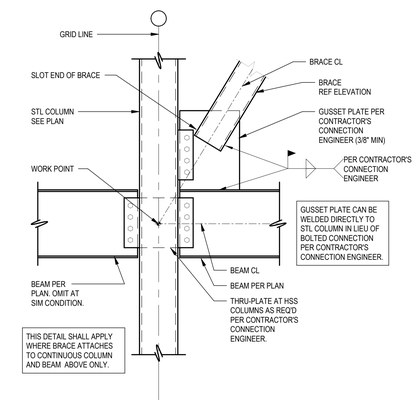


8 BRACE FRAMING DETAIL - MID-INTERSECTION AT COLUMN
S8.01 3/4" = 1'-0"



7 BRACE FRAME DETAIL - MID-INTERSECTION AT COLUMN
S8.01 3/4" = 1'-0"



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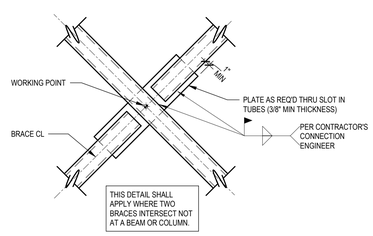
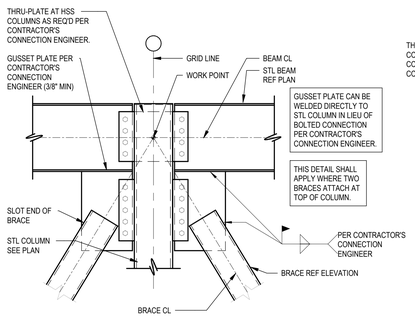
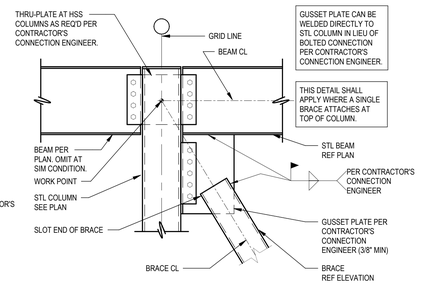
S8.01 3/4" = 1'-0"



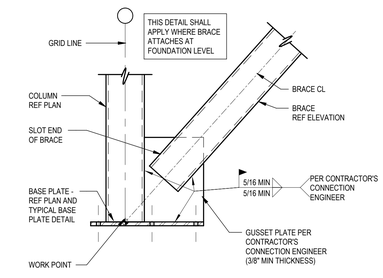
5 BRACE FRAME DETAIL - X-BRACING MID CONNECTION
S8.01 1" = 1'-0"



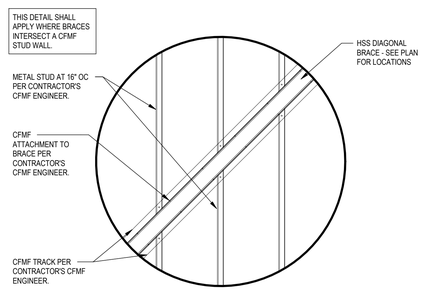
4 BRACE FRAME DETAIL - INTERSECTION AT COLUMN TOP
S8.01 3/4" = 1'-0"



3 BRACE FRAME DETAIL - INTERSECTION AT COLUMN TOP
S8.01 3/4" = 1'-0"



2 BRACE FRAME DETAIL - INTERSECTION AT FOUNDATION
S8.01 3/4" = 1'-0"



1 BRACE FRAME DETAIL - AT CFMF STUD WALL
S8.01 3/4" = 1'-0"

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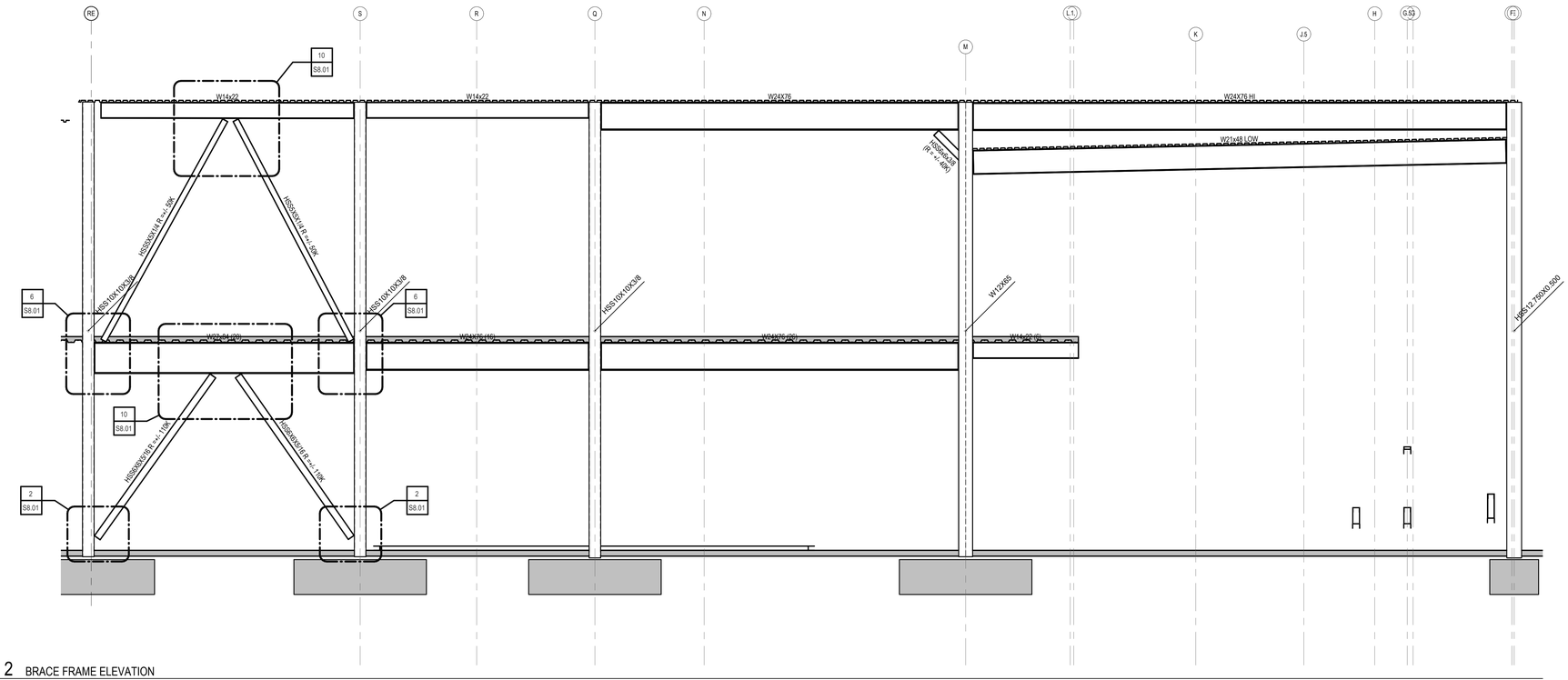
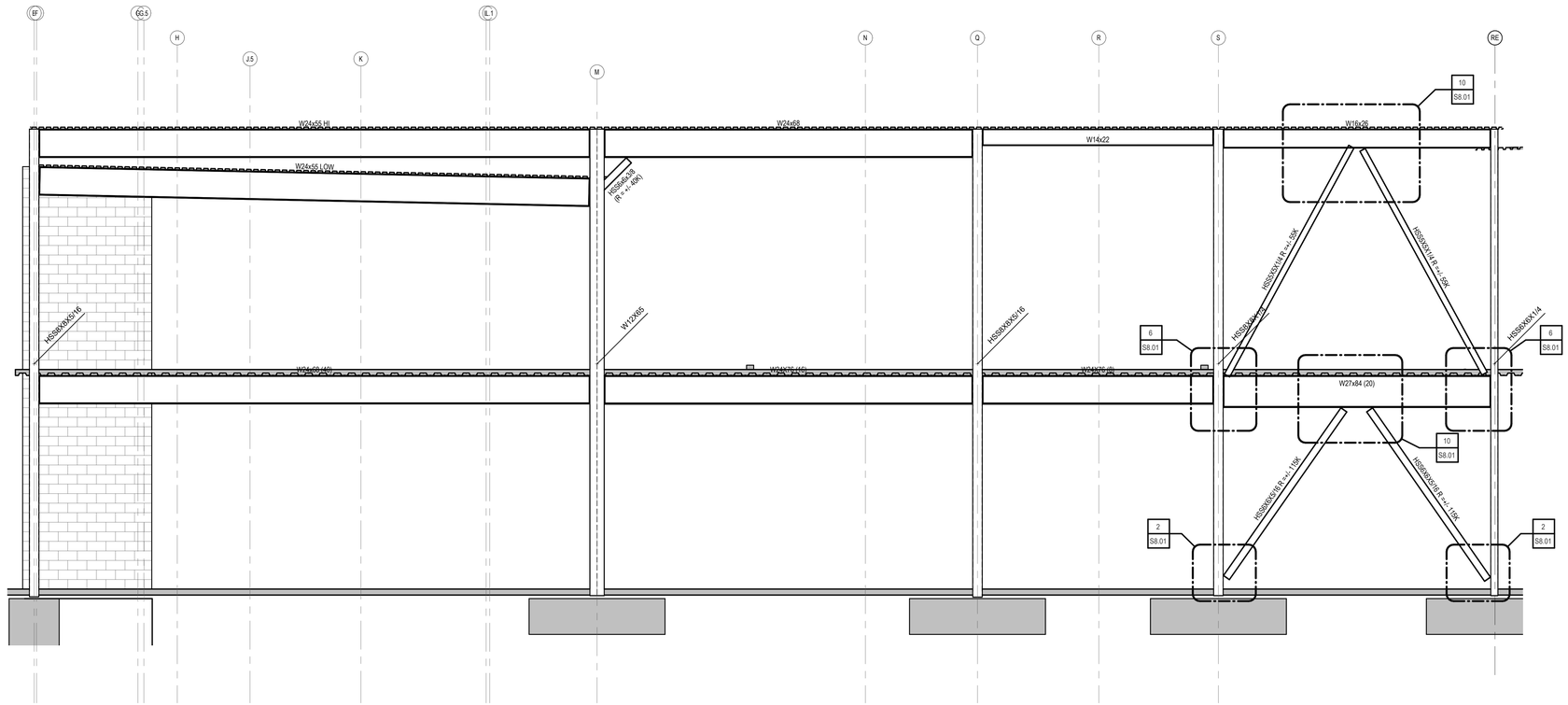


2 BRACE FRAME ELEVATION

S8.02 1/4" = 1'-0"



1 BRACE FRAME ELEVATION

S8.02 1/4" = 1'-0"

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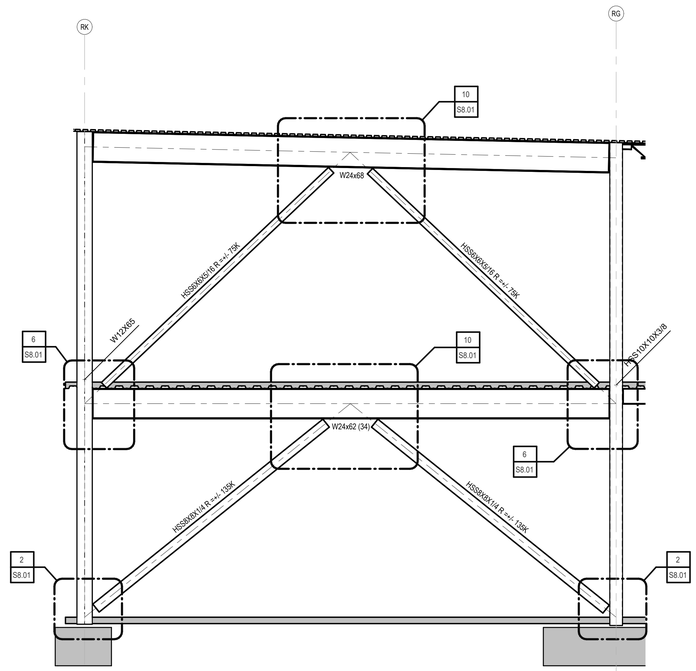
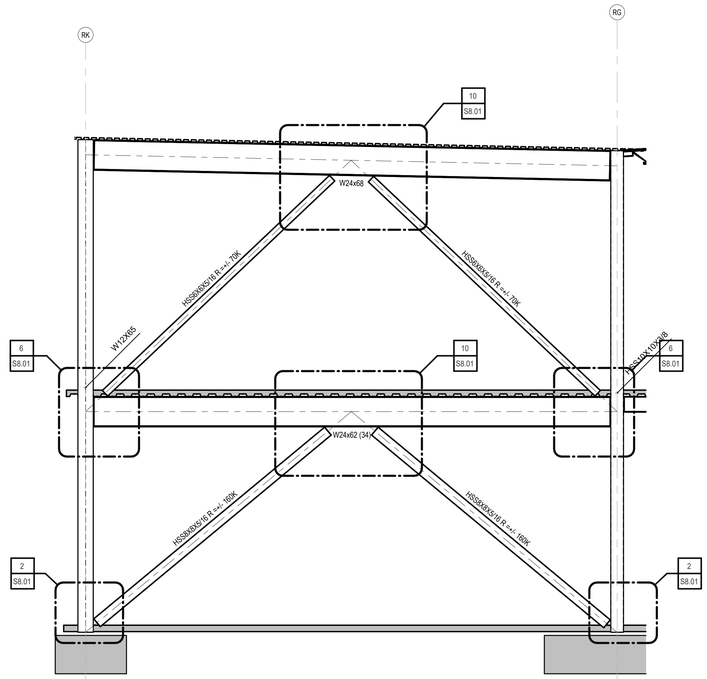
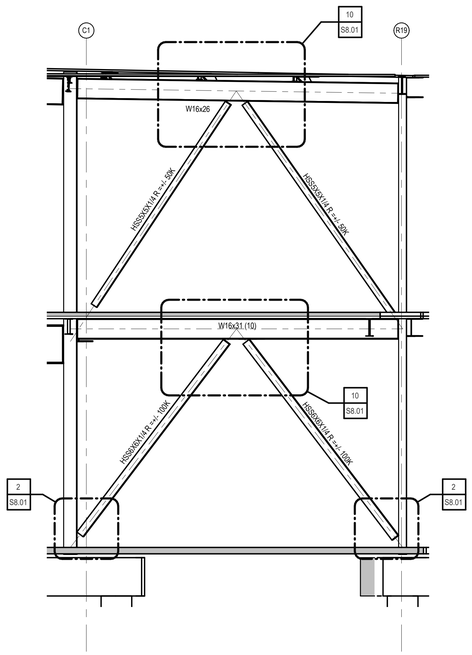


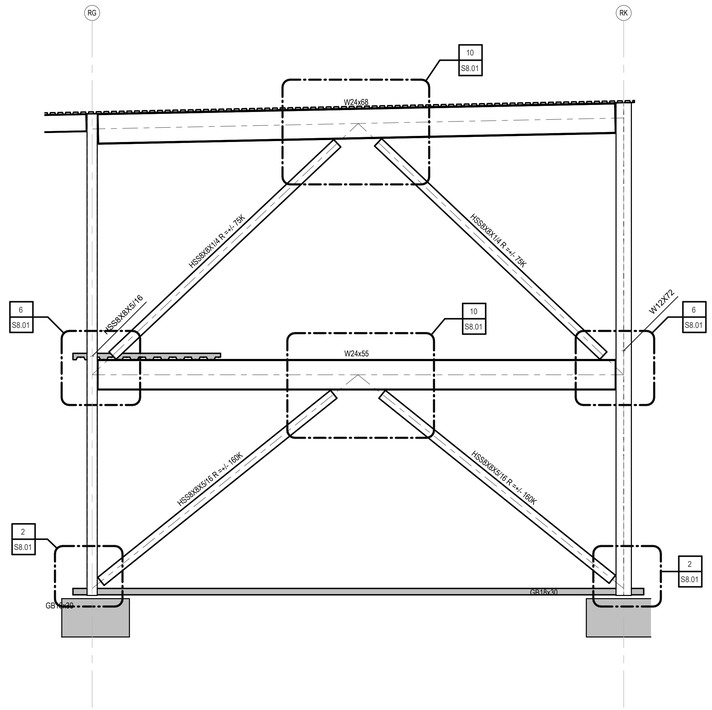
5 BRACE FRAME ELEVATION
S8.03 1/4" = 1'-0"



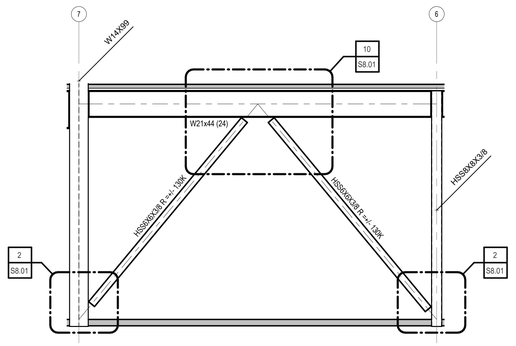
4 BRACE FRAME ELEVATION
S8.03 1/4" = 1'-0" BACK REF: S2.15



3 BRACE FRAME ELEVATION
S8.03 1/4" = 1'-0" BACK REF: S2.13



2 BRACE FRAME ELEVATION
S8.03 1/4" = 1'-0" BACK REF: S2.13



1 BRACE FRAME ELEVATION
S8.03 1/4" = 1'-0" BACK REF: S2.16

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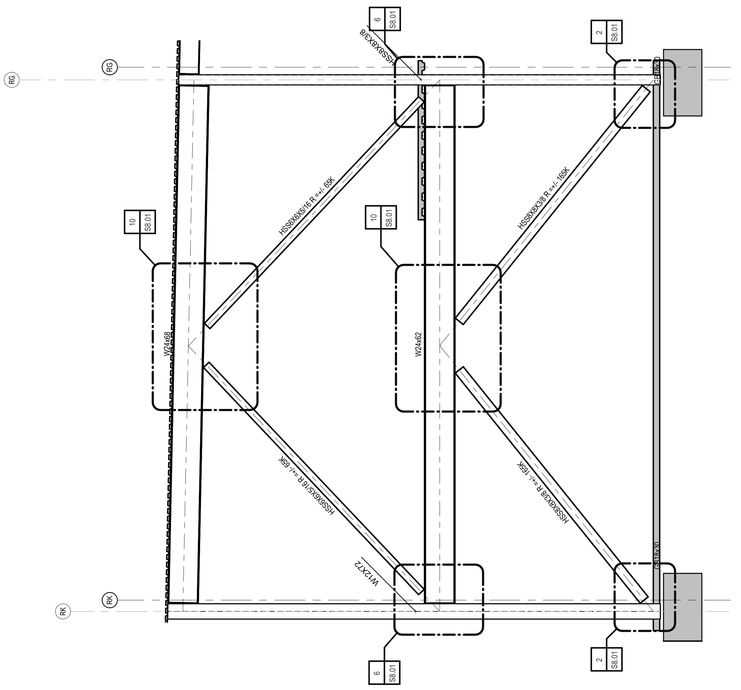
RG
RK
HSS8X8X1/4 R +/- 49K
HSS8X8X5/8 R +/- 165K
W24x68
W24x62
W14x109
W14x109
W14x109

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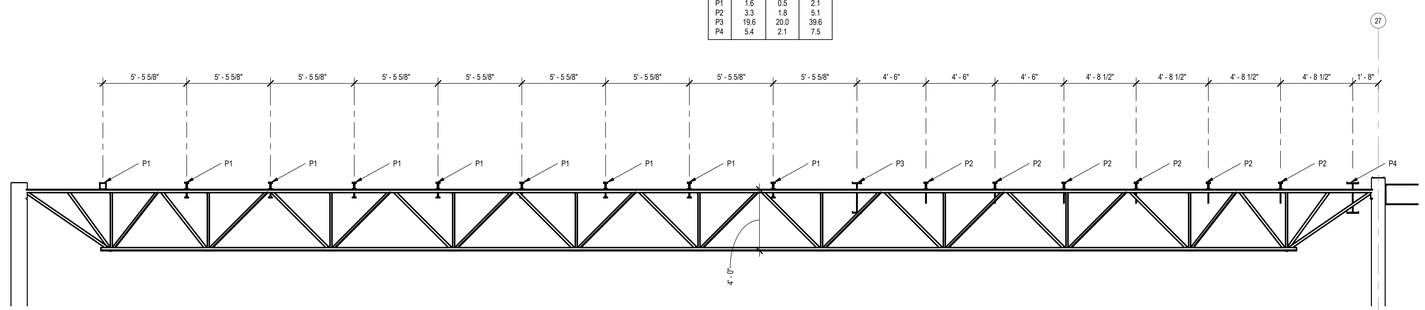
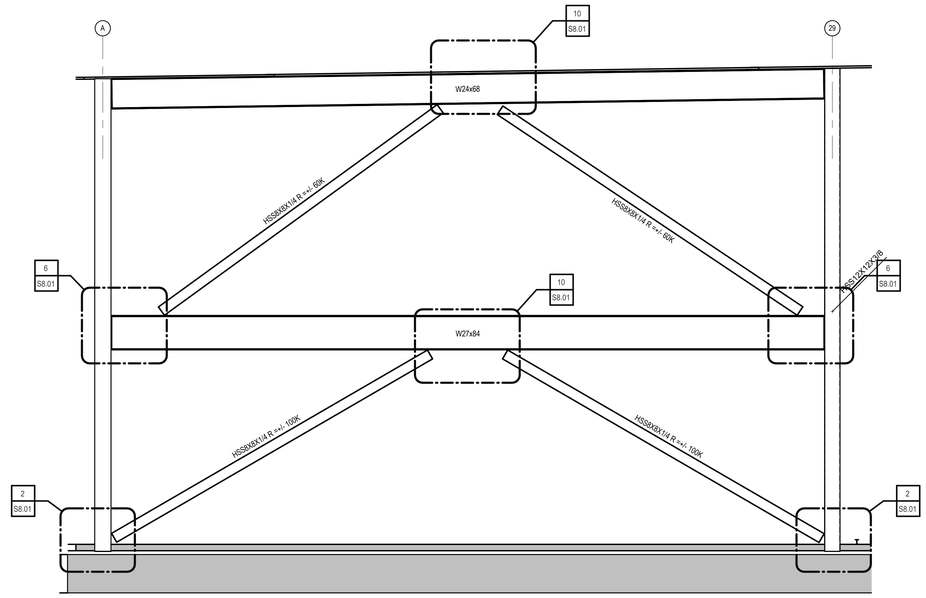
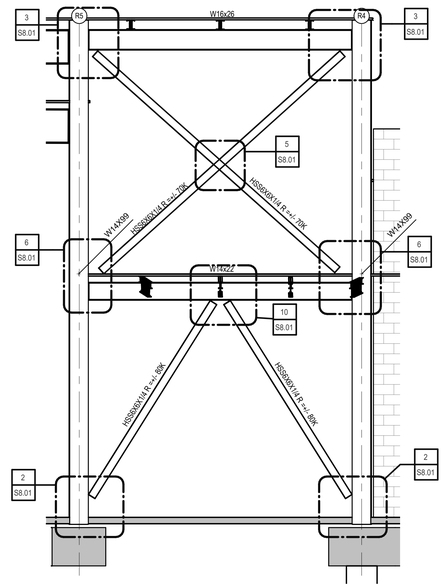
JOIST GIRDER LOADING (ASD)			
MARK	DL (KIPS)	RL (KIPS)	TL (KIPS)
P1	1.6	0.5	2.1
P2	3.3	1.8	5.1
P3	19.6	20.0	39.6
P4	5.4	2.1	7.5



3 JOIST GIRDER JG1 ELEVATION
S8.05 1/4" = 1'-0"



2 BRACE FRAME ELEVATION
S8.05 1/4" = 1'-0"



1 BRACE FRAME ELEVATION
S8.05 1/4" = 1'-0" BACK REF: S2.18

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BRACED FRAME ELEVATIONS

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NOTE: THE INTENT OF THE DETAILS ON THIS SHEET IS TO SHOW HOW NON-LOAD BEARING WALLS ARE TO BE BRACED TO THE BUILDING STRUCTURE. REFER TO THE ARCHITECTURAL DRAWINGS FOR REQUIRED SHEATHING, INSULATION, CAULKING, AND OTHER SPECIAL DETAILING REQUIREMENTS FOR SOUND AND FIRE RATED PARTITIONS. IF THERE ARE ANY CONFLICTS PERTAINING TO FIRE RATING AND SOUND RATING DETAILS BETWEEN THE DETAILS SHOWN ON THIS SHEET AND THE DETAILS SHOWN ON THE ARCHITECTURAL DRAWINGS, THE DETAILS ON THE ARCHITECTURAL SHEETS SHALL GOVERN FOR THESE ITEMS.

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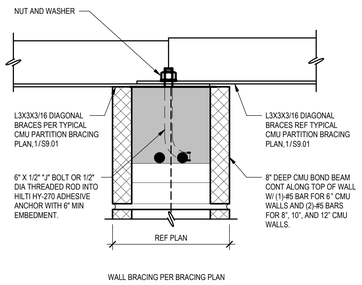
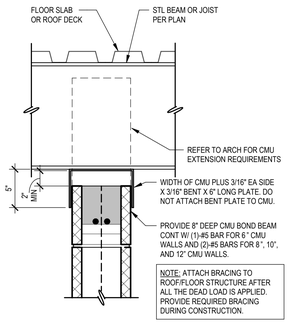
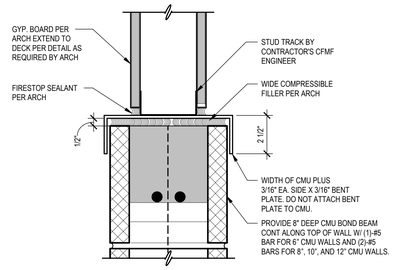


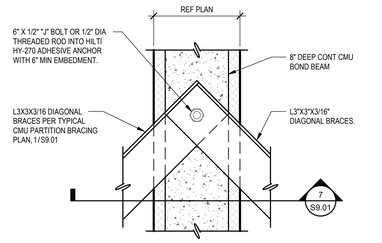
7 TYPICAL WALL BRACING ANCHOR DETAIL
S9.01 3" = 1'-0"



6 TYPICAL CMU PARTITION CONNECTION AT STL BEAM
S9.01 1 1/2" = 1'-0"



5 TYPICAL CMU PARTITION CONNECTION AT DRYWALL
S9.01 3" = 1'-0"



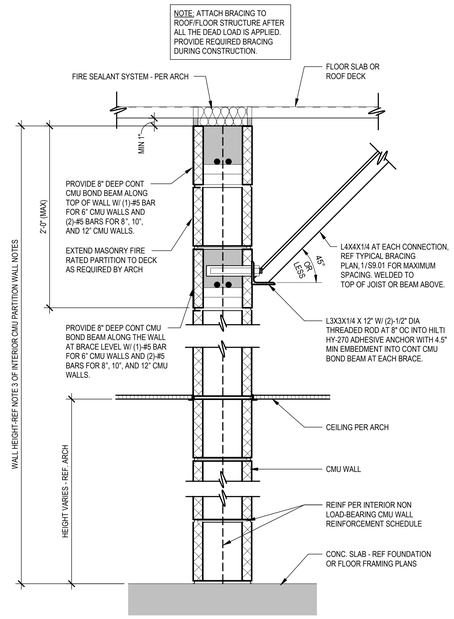
8 TYPICAL CONNECTION ANGLE BRACES TO CMU
S9.01 3" = 1'-0"

PROVIDE WALL BRACING ON BOTH SIDES OF WALL USING THE THE BRACE LENGTH (LB):

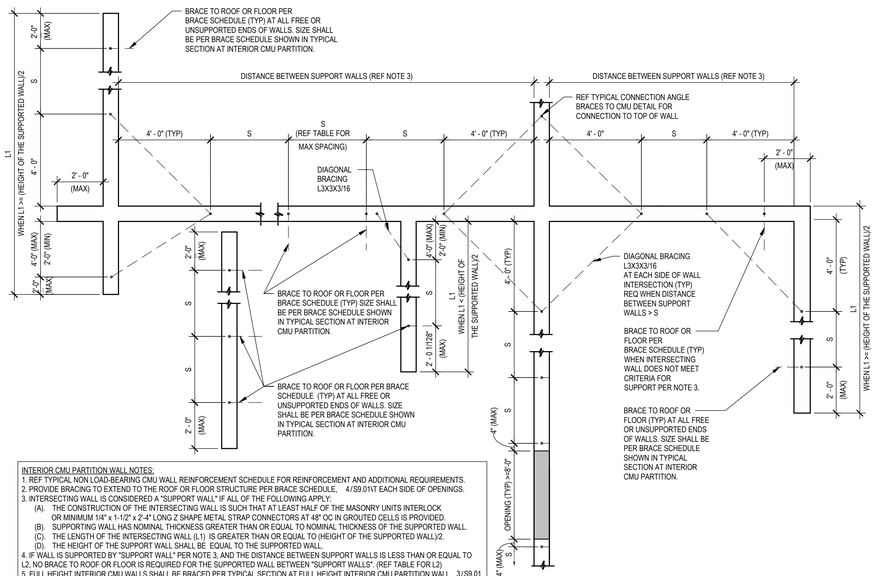
"LB"	BRACE SIZE
UP TO 6'-0"	L2X2X3/16
6'-0" TO 9'-0"	L3X3X3/16
9'-0" TO 13'-0"	L4X4X1/4
13'-0" TO 19'-0"	HSS3X3X3/16

REF TYPICAL BRACING PLAN FOR MAXIMUM SPACING, 1/S9.01

4 NON-LOAD BEARING WALL BRACE SCHEDULE
S9.01 3/4" = 1'-0"



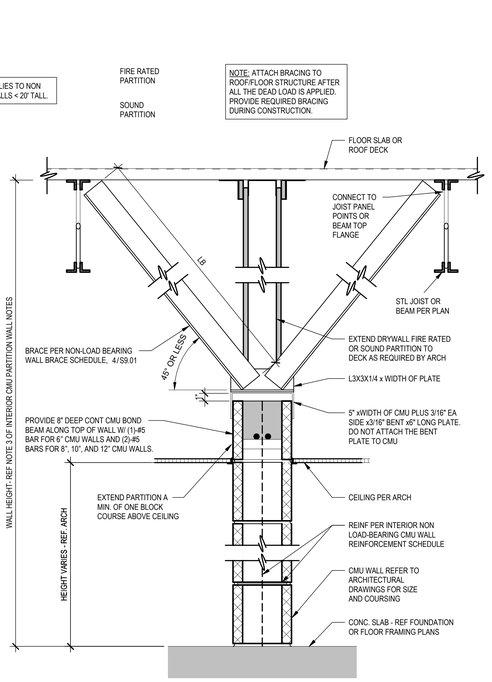
3 TYPICAL SECTION AT FULL HEIGHT INTERIOR CMU PARTITION
S9.01 1 1/2" = 1'-0"



INTERIOR CMU PARTITION WALL NOTES:
1. REF TYPICAL NON LOAD-BEARING CMU WALL REINFORCEMENT SCHEDULE FOR REINFORCEMENT AND ADDITIONAL REQUIREMENTS.
2. PROVIDE BRACING TO EXTEND TO THE ROOF OR FLOOR STRUCTURE PER BRACE SCHEDULE, 4/S9.01AT EACH SIDE OF OPENINGS.
3. INTERSECTING WALL IS CONSIDERED A "SUPPORT WALL" IF ALL OF THE FOLLOWING APPLY:
   (A). THE CONSTRUCTION OF THE INTERSECTING WALL IS SUCH THAT AT LEAST HALF OF THE MASONRY UNITS INTERLOCK OR MINIMUM 1/4" x 1-1/2" x 2'-4" LONG Z SHAPE METAL STRAP CONNECTORS AT 48" OC IN GROUTED CELLS IS PROVIDED.
   (B). SUPPORTING WALL HAS NOMINAL THICKNESS GREATER THAN OR EQUAL TO NOMINAL THICKNESS OF THE SUPPORTED WALL.
   (C). THE LENGTH OF THE INTERSECTING WALL (L1) IS GREATER THAN OR EQUAL TO (HEIGHT OF THE SUPPORTED WALL)/2.
   (D). THE HEIGHT OF THE SUPPORT WALL SHALL BE EQUAL TO THE SUPPORTED WALL.
4. IF WALL IS SUPPORTED BY "SUPPORT WALL" PER NOTE 3, AND THE DISTANCE BETWEEN SUPPORT WALLS IS LESS THAN OR EQUAL TO L2, NO BRACE TO ROOF OR FLOOR IS REQUIRED FOR THE SUPPORTED WALL BETWEEN "SUPPORT WALLS". (REF TABLE FOR L2)
5. FULL HEIGHT INTERIOR CMU WALLS SHALL BE BRACED PER TYPICAL SECTION AT FULL HEIGHT INTERIOR CMU PARTITION WALL, 3/S9.01
6. PROVIDE CONT BOND BEAM AT TOP OF THE WALL AND AT 8 '-0" OC AND REINFORCE WITH (1)-#5 BARS FOR 6 " CMU WALLS AND (2)-#5 BARS FOR 8", 10", AND 12" CMU WALLS, UNLESS NOTED OTHERWISE.
THE HEIGHT OF THE SUPPORT WALL SHALL BE EQUAL TO THE SUPPORTED WALL.

NOMINAL WALL THICKNESS	MAXIMUM "S"	L2
6"	8'-0"	16'-0"
GREATER THAN OR EQUAL TO 8"	12'-0"	20'-0"

TABLE NOTES:
S = SPACING OF TOP OF WALL BRACE POINTS
L1 = LENGTH OF INTERSECTING WALL, USED WHEN DETERMINING IF INTERSECTING WALL CAN BE CONSIDERED AS A SUPPORT.
L2= REF NOTE 4.



2 TYPICAL SECTION AT INTERIOR CMU PARTITION
S9.01 1 1/2" = 1'-0"

1 TYPICAL CMU PARTITION BRACING PLAN
S9.01 3/8" = 1'-0"

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NON-LOAD BEARING WALL BRACING DETAILS

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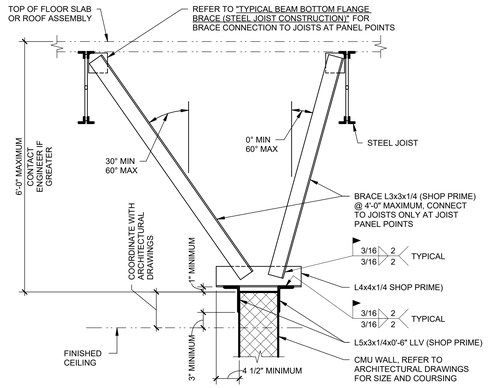
INTERIOR NON LOAD-BEARING WALL MAXIMUM HEIGHT BASED ON VERTICAL REINFORCEMENT AND WALL THICKNESS				
SPECIFIED WALL VERTICALS REINFORCEMENT	NOMINAL WALL THICKNESS			
	6"	8"	10"	12"
#5 AT 120" OC	10'-0"	14'-0"	16'-0"	18'-0"
#5 AT 96" OC	12'-0"	16'-0"	18'-0"	20'-0"
#5 AT 72" OC	14'-0"	18'-0"	20'-0"	22'-0"
#5 AT 48" OC	16'-0"	20'-0"	22'-0"	26'-0"
#5 AT 32" OC	18'-0"	22'-0"	24'-0"	28'-0"
#5 AT 24" OC	20'-0"	24'-0"	26'-0"	30'-0"
#5 AT 16" OC	22'-0"	26'-0"	28'-0"	32'-0"

TYPICAL NON LOAD-BEARING CMU WALL REINFORCEMENT SCHEDULE NOTES:

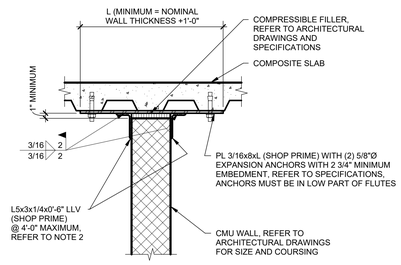
1. FOR THIS TABLE WALL HEIGHT IS DEFINED AS VERTICAL DISTANCE BETWEEN LATERAL SUPPORT OF THE WALLS.
2. ALL VERTICAL REINFORCEMENT SHALL EXTEND FULL HEIGHT OF WALLS
3. PROVIDE MIN (1)#5 VERTICAL REINFORCING BAR IN GROUTED FILLED CELL AT FIRST CELL OF EACH END OF WALLS.
4. PROVIDE BEDJOINT REINFORCEMENT AT 16" ON CENTER.
5. PROVIDE PREFABRICATED TEE AND CORNER BEDJOINT REINFORCEMENT TO MATCH BED JOINT REINFORCEMENT SIZE AND SPACING AT WALL CORNERS AND INTERSECTIONS. REF TYPICAL CORNER BAR DETAIL FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. REFER TO NON LOAD-BEARING WALL BRACING DETAILS FOR BRACING AND SUPPORT REQUIREMENTS.
7. PROVIDE BOND BEAM AT TOP OF THE WALL AND AT 8 '-0" OC AND REINFORCE WITH (1)-#5 BARS FOR 6 " CMU WALLS AND (2)-#5 BARS FOR 8 ", 10", AND 12" CMU WALLS, UNLESS NOTED OTHERWISE.
8. ALL VERTICAL REINFORCEMENT DISPLACED BY OPENINGS SHALL BE EQUALLY REDISTRIBUTED TO BOTH SIDES OF THE OPENING AND SHALL EXTEND FULL HEIGHT OF WALLS BUT NOT LESS THAN 2'-0" JAMBS PER TYPICAL LINTEL JAMB DETAIL.
9. LINTELS SHALL BE REINFORCED PER TYPICAL CMU LINTEL SCHEDULE.

4 NON-LOAD BEARING WALL SCHEDULE
S9.02 12" = 1'-0"



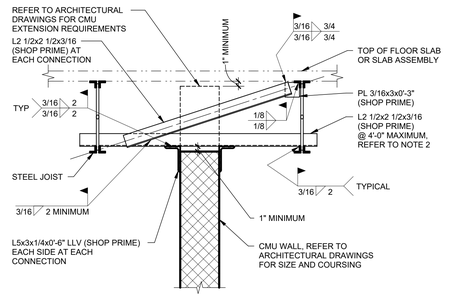
NOTES:
1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS. USE OF THIS DETAIL IS LIMITED TO WALL HEIGHTS UP TO 36 TIMES THE NOMINAL WALL THICKNESS.
2. FOR 4" PARTITIONS GREATER THAN 9'-0" TALL OR 6" PARTITIONS GREATER THAN 15'-0" TALL, REDUCE CONNECTION SPACING TO 3'-6".

3 TYPICAL INTERIOR NON-LOADBEARING CMU WALL TOP CONNECTION
S9.02 NO SCALE



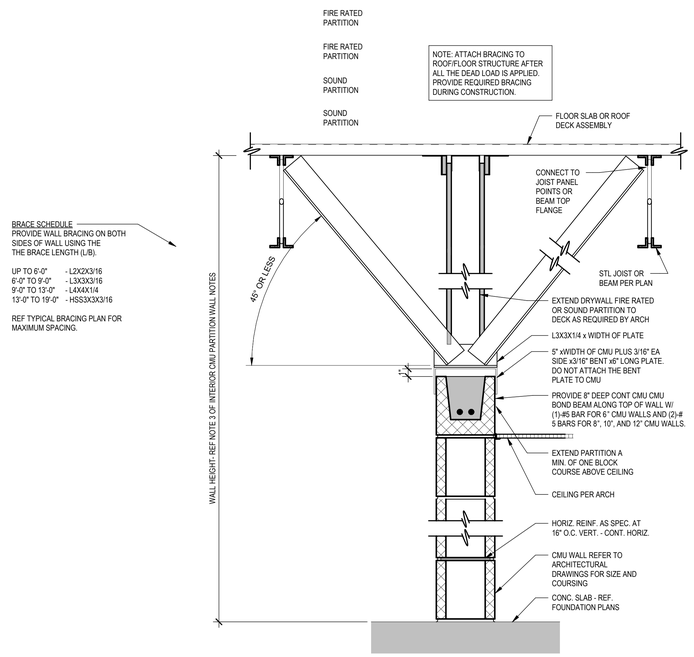
NOTES:
1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS. USE OF THIS DETAIL IS LIMITED TO WALL HEIGHTS UP TO 36 TIMES THE NOMINAL WALL THICKNESS.
2. FOR 4" PARTITIONS GREATER THAN 9'-0" TALL OR 6" PARTITIONS GREATER THAN 15'-0" TALL, REDUCE CONNECTION SPACING TO 3'-6".

2 TYPICAL INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION
S9.02 NO SCALE



NOTES:
1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS. USE OF THIS DETAIL IS LIMITED TO WALL HEIGHTS UP TO 36 TIMES THE NOMINAL WALL THICKNESS.
2. FOR 4" PARTITIONS GREATER THAN 9'-0" TALL OR 6" PARTITIONS GREATER THAN 15'-0" TALL, REDUCE CONNECTION SPACING TO 3'-6".

1 TYPICAL INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION
S9.02 NO SCALE



SHOWING DRYWALL EXTENSION OF FIRE RATED OR SOUND PARTITIONS TO DECK

5 TYPICAL SECTION AT INTERIOR CMU PARTITION
S9.02 1 1/2" = 1'-0"

BRACE SCHEDULE
PROVIDE WALL BRACING ON BOTH SIDES OF WALL USING THE THE BRACE LENGTH (LB).

UP TO 6'-0" - L2X2X3/16
6'-0" TO 9'-0" - L3X3X3/16
9'-0" TO 13'-0" - L4X4X1/4
13'-0" TO 19'-0" - HSS3X3X3/16

REF TYPICAL BRACING PLAN FOR MAXIMUM SPACING.

Date
Revision /

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

IEG
Innovative Engineering Group
www.iegengineers.com
817.410.2656
TBPELS Firm No. F-5923
STATE OF TEXAS
R. CRAIG McKEE
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LICENSED PROFESSIONAL ENGINEER
7.14.2026
F-1252
F-5923

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NON-LOAD BEARING WALL BRACING DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	S9.02
Drawn By: IEG	
Date: 07.15.26	

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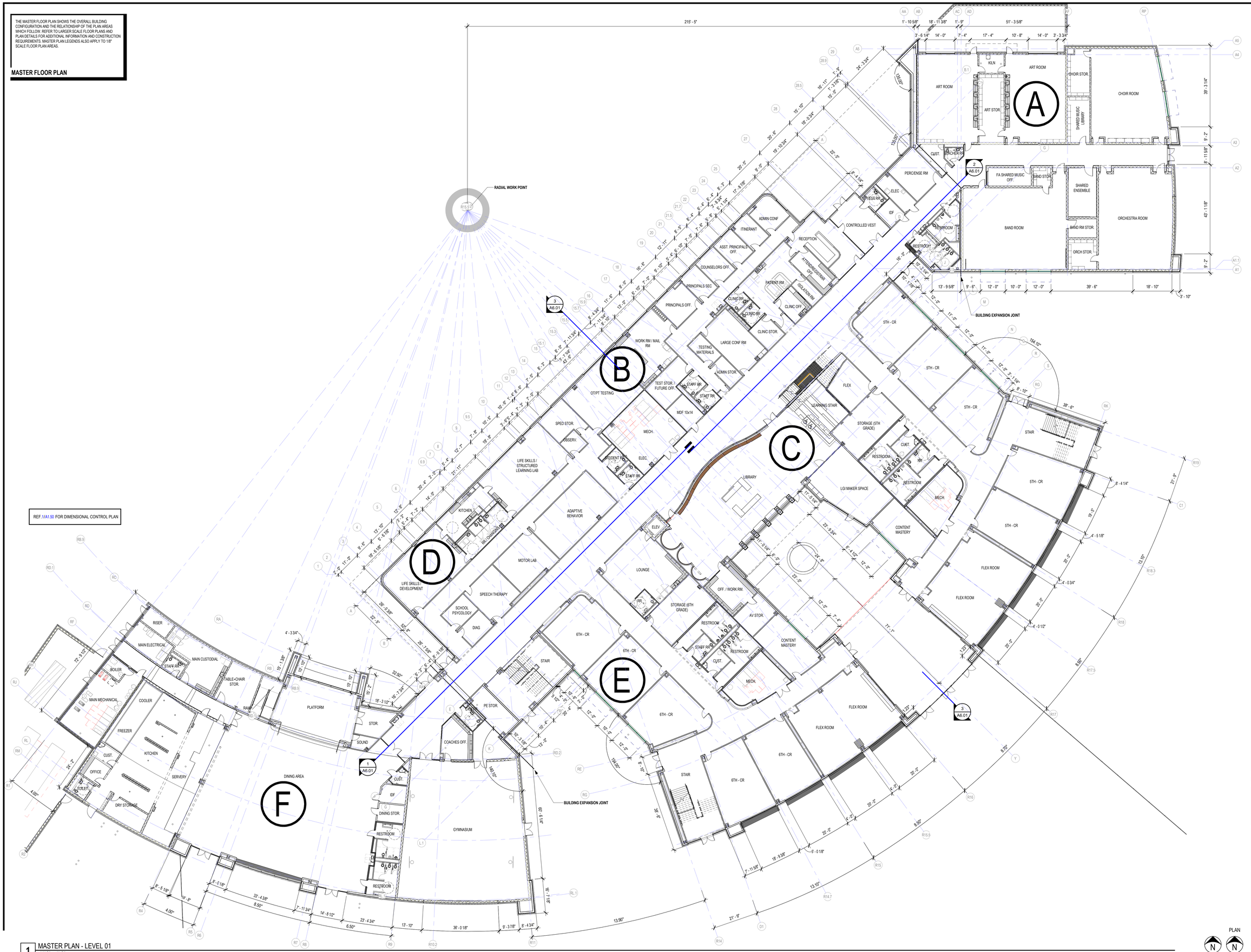
THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE PLAN AREAS WHICH FOLLOW. REFER TO LARGER SCALE FLOOR PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS. MASTER PLAN LEGENDS ALSO APPLY TO 1/8" SCALE FLOOR PLAN AREAS.

MASTER FLOOR PLAN



1 MASTER PLAN - LEVEL 01
1/16" = 1'-0"

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Revision / Date

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
7/15/2026

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MASTER FLOOR PLAN - LEVEL 1

VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: CB, CI	A1.01
Date: 07.15.26	

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1 FLOOR PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"

PLAN

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F., MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 13/A9.01 AND 11/A9.01 FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 SIM — XX/A101 **WALL SECTION REFERENCE**

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1-01 / ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

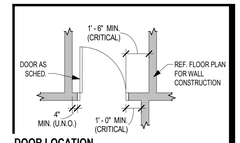
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

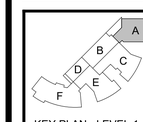
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.



7/15/2026

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FLOOR PLAN - LEVEL 1 - AREA A

VOLUME 01

Job No. 00802-04-01	Sheet No. A1.1A
Drawn By: CB, CI	
Date 07.15.26	

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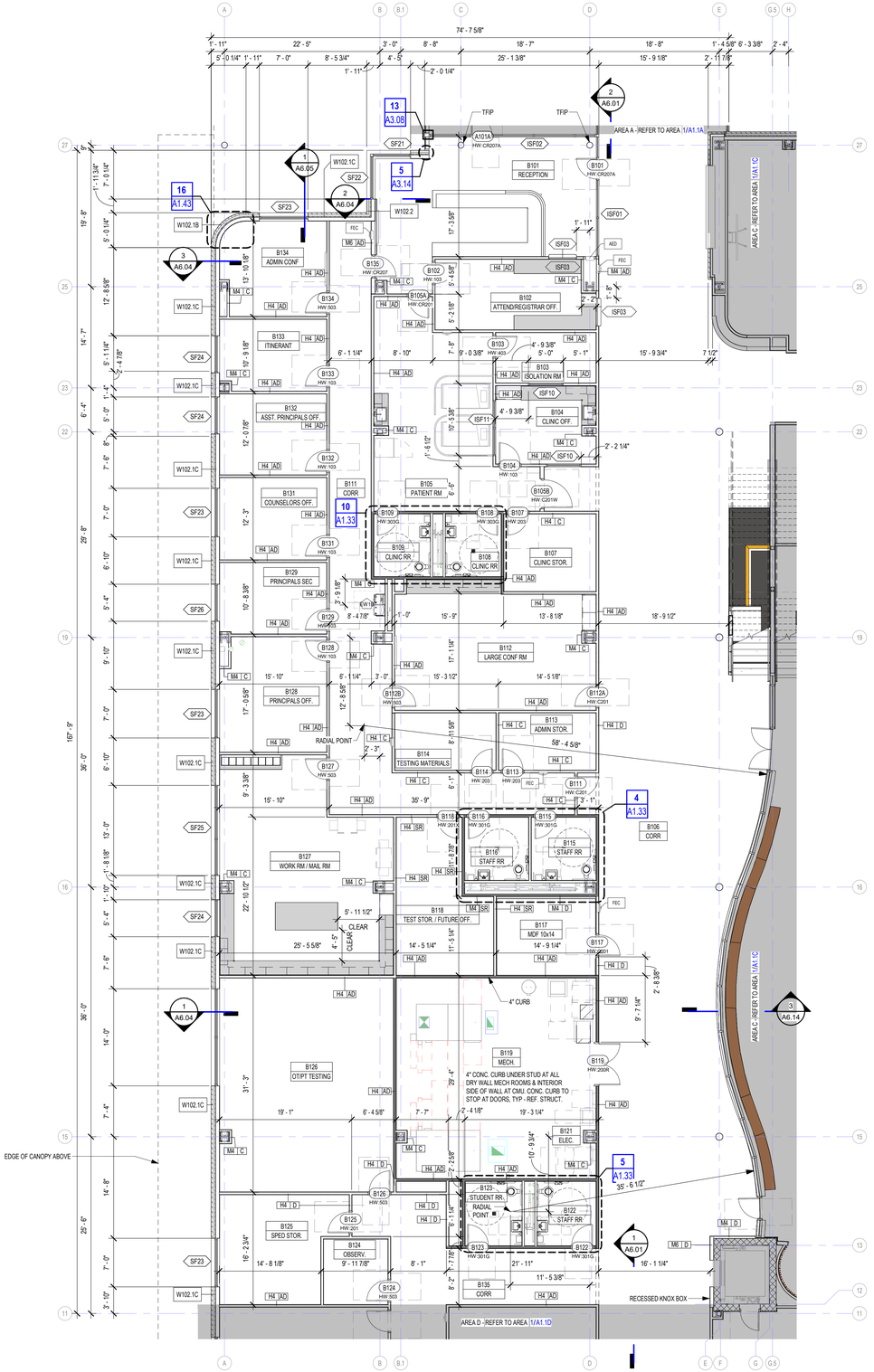

1 FLOOR PLAN - LEVEL 1 - AREA B
1/8" = 1'-0"

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F, MASONRY, U.N.O.
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4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE I/D. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE 13/A6.05 FILLED IN CMU AS SHOWN ON THE PLAN. REF [illegible] AND FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. — **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. — **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. — **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

X' M.B. — **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

X' T.B. — **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 — **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A — **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

S01.01 — **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 — **CALLOUT REFERENCE** SIM

1 / A101 — **WALL SECTION REFERENCE** XX / A101

XXX' - X" FIN FLOOR — **ELEVATION REFERENCE**

1-01 ROOM — **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS.

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

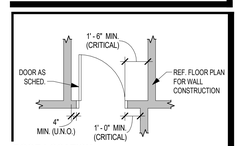
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

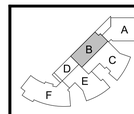
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNICH 29 STATE OF TEXAS
7/15/2026

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FLOOR PLAN - LEVEL 1 - AREA B

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Job No. 00802-04-01	Sheet No. A1.1B
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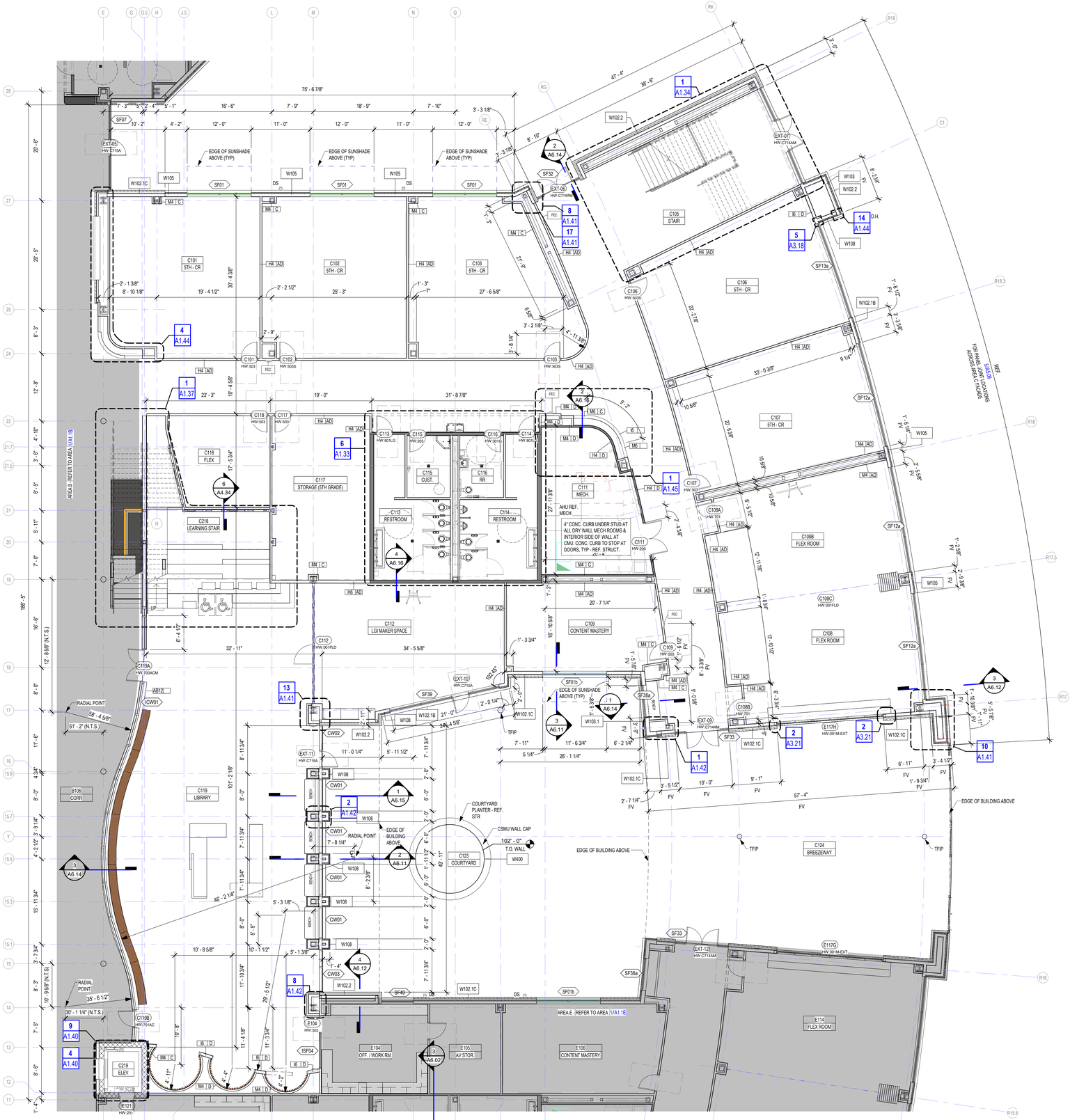

1 FLOOR PLAN - LEVEL 1 - AREA C
1/8" = 1'-0"

PLAN

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
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3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
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7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE 13/A2 CROSS IN LOCATIONS AS SHOWN ON THE PLAN. REF AND FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

'X' M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

'X' T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 **WALL SECTION REFERENCE** SIM. XX/A101

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1-01 ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS.

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

- D WALL TO DECK / STRUCTURE
- C WALL TO 6" (MIN.) ABOVE CEILING
- FR FIRE RATED WALL TO DECK
- AD ACOUSTICAL WALL TO DECK
- AC ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
- AR ACOUSTICAL RATED WALL TO DECK
- GD GYP WALL ABOVE TO DECK
- SR SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

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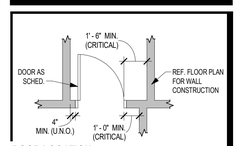
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.



7/15/2026

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FLOOR PLAN - LEVEL 1 - AREA C

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Job No.	Sheet No.
20803-04-01	A1.1C
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Date: 07.15.26	

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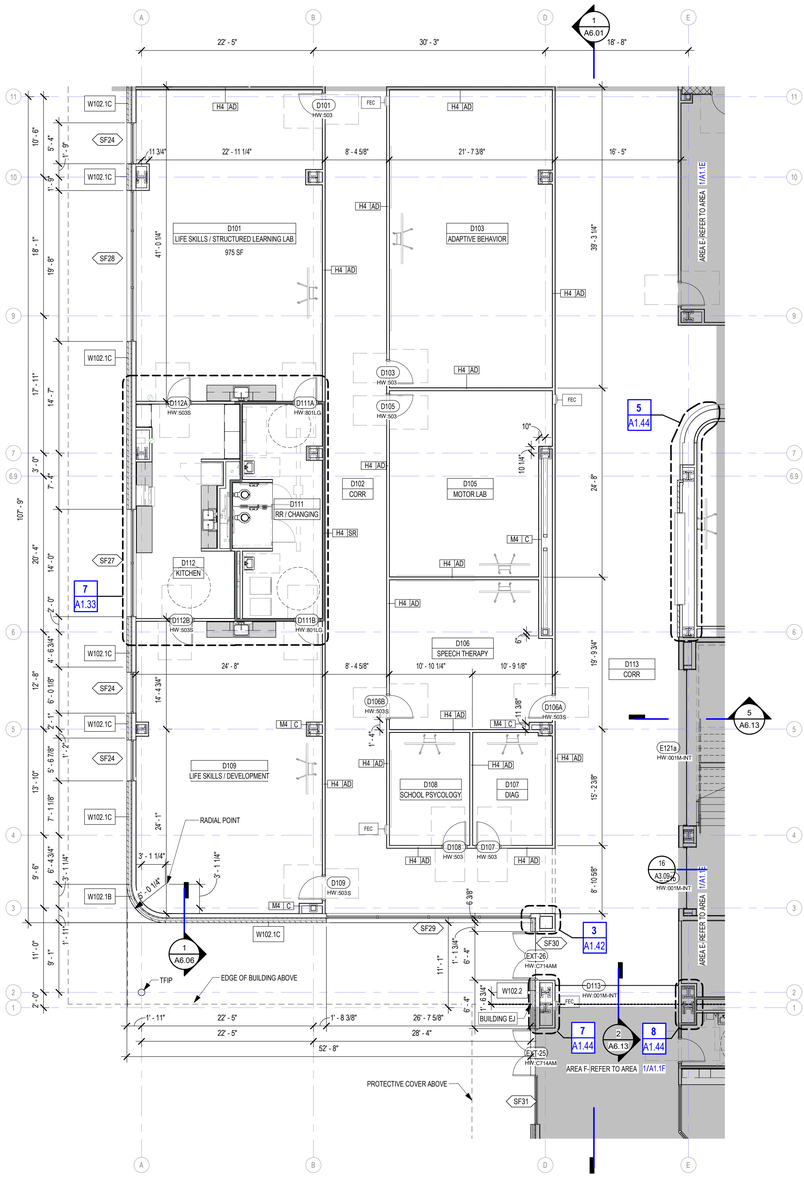

1 FLOOR PLAN - LEVEL 1 - AREA D
1/8" = 1'-0"

PLAN

NOTES:

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7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE 12/A6.01 GRIDS IN LOCATIONS AS SHOWN ON THE PLAN. REF AND FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

X' M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

X' T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOWSTOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 **WALL SECTION REFERENCE** SIM XX/A101

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1-01 ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER

STANDARD CMU

ARCHITECTURAL CMU (ACMU)

CFMF PARTITION

NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

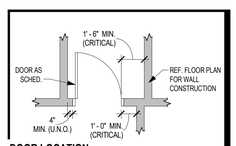
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

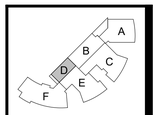
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 914

7/15/2026

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FLOOR PLAN - LEVEL 1 - AREA D

VOLUME 01

Job No. 00802-04-01	Sheet No. A1.1D
Drawn By: CB,CI	
Date: 07.15.26	

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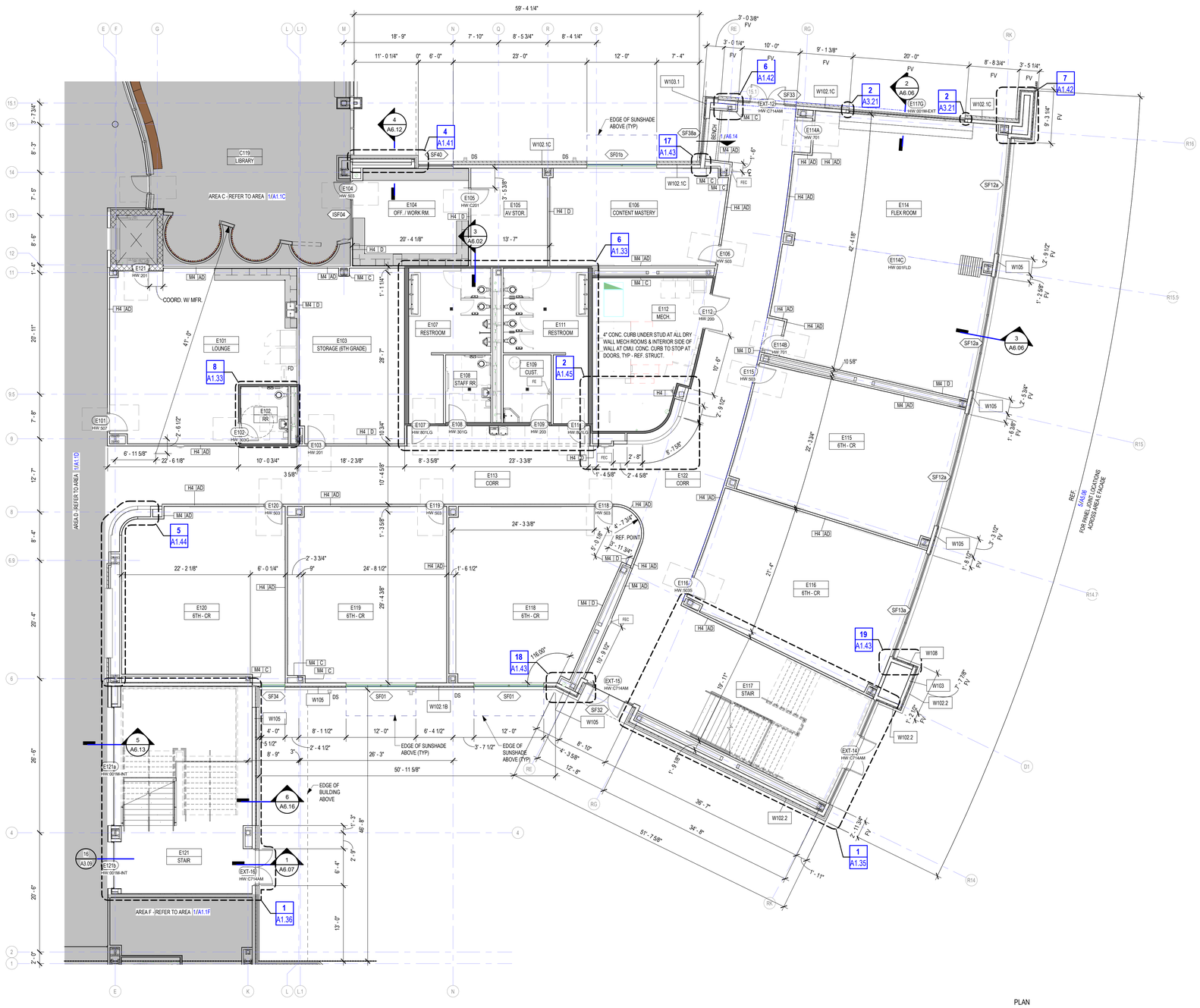


1 FLOOR PLAN - LEVEL 1 - AREA E
1/8" = 1'-0"

PLAN

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F., MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 13/A5.01 AND 17/A5.01 FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

X' M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

X' T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 SIM **WALL SECTION REFERENCE** XX/A101

XXX - X' FIN FLOOR **ELEVATION REFERENCE**

1-01 ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

- D WALL TO DECK / STRUCTURE
- C WALL TO 6" (MIN.) ABOVE CEILING
- FR FIRE RATED WALL TO DECK
- AD ACOUSTICAL WALL TO DECK
- AC ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
- AR ACOUSTICAL RATED WALL TO DECK
- GD GYP WALL ABOVE TO DECK
- SR SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

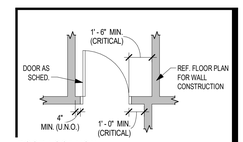
LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
   REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

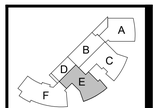
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29836 STATE OF TEXAS

7/15/2026

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FLOOR PLAN - LEVEL 1 - AREA E

VOLUME 01

Job No.	Sheet No.
03802-04-01	A1.1E
Drawn By: CB, CI	
Date: 07.15.26	

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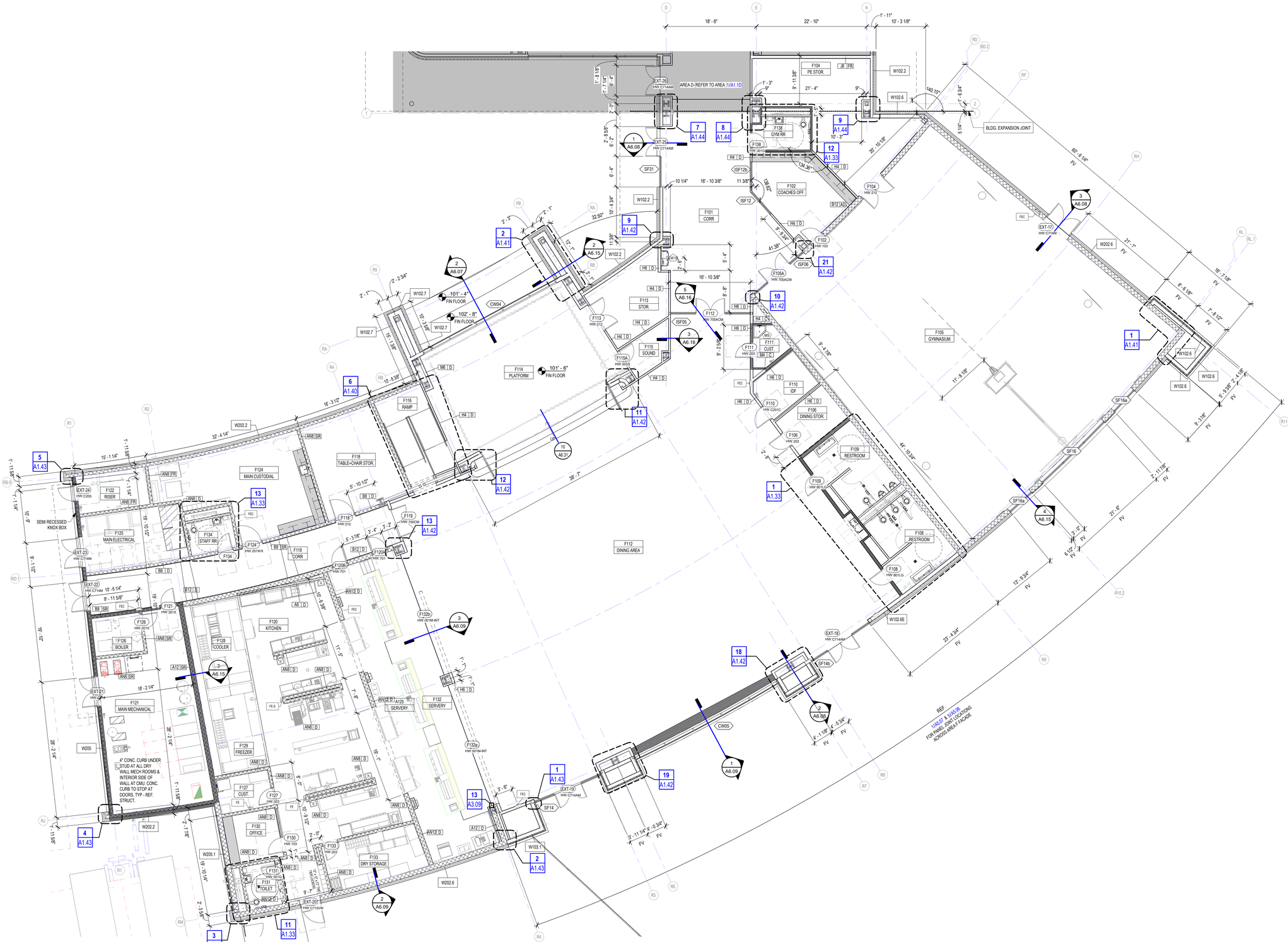
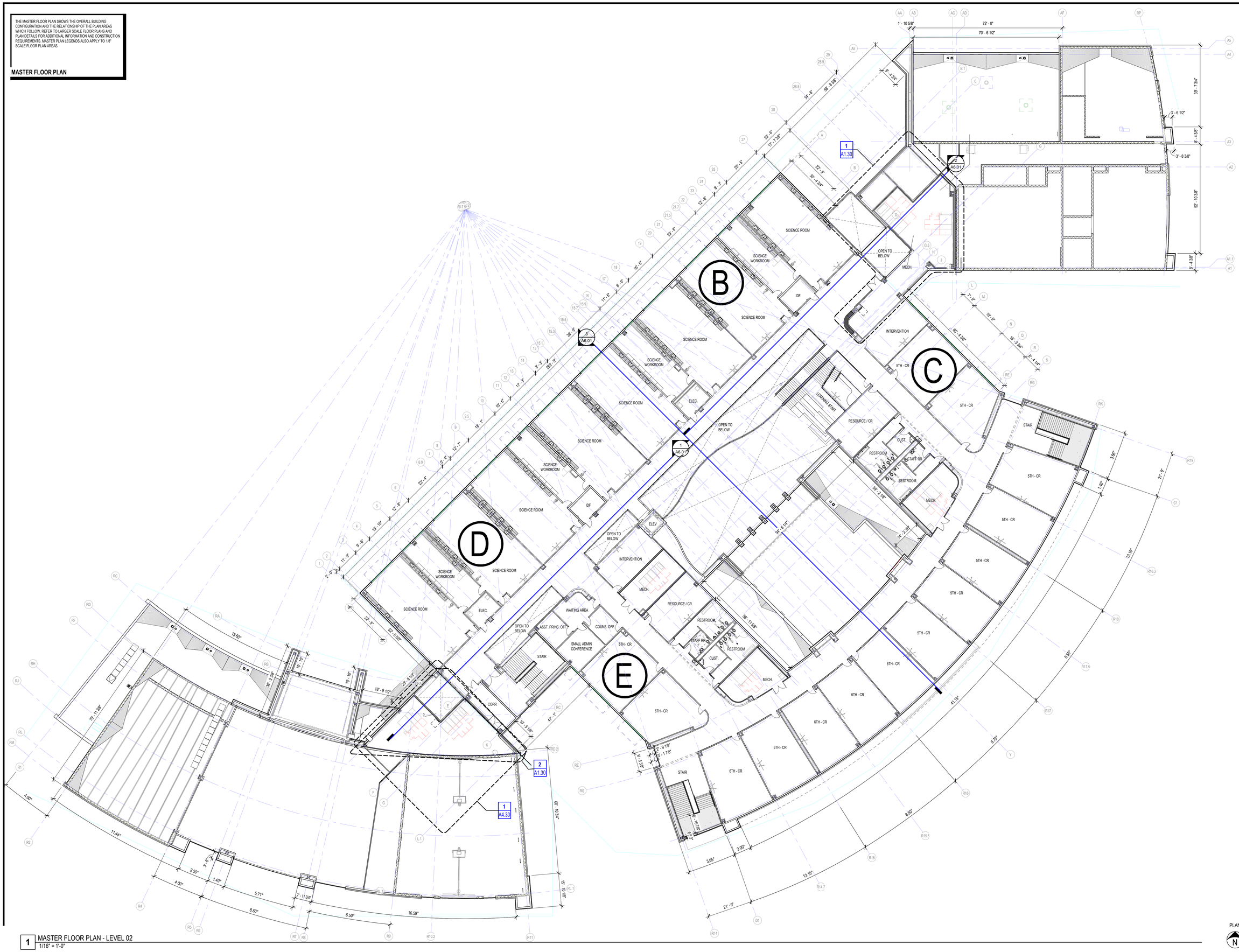

F104 PE STOR.
F138 GYM RR
F102 COACHES OFF.
F101 CORR
F113 STOR.
F115 SOUND
F114 PLATFORM
F116 RAMP
F124 MAIN CUSTODIAL
F118 TABLE+CHAIR STOR
F122 RISER
F125 MAIN ELECTRICAL
F134 STAFF RR
F119 CORR
F120 KITCHEN
F126 BOILER
F128 COOLER
F121 MAIN MECHANICAL
F129 FREEZER
F127 CUST.
F130 OFFICE
F131 TOILET
F133 DRY STORAGE
F132 SERVERY
F112 DINING AREA
F105 GYMNASIUM
F111 CUST.
F110 IDF
F106 DINING STOR.
F109 RESTROOM
F108 RESTROOM
AREA D-REFER TO AREA 1/A1.1D
BLDG. EXPANSION JOINT
101' - 4" FIN FLOOR
102' - 8" FIN FLOOR
101' - 6" FIN FLOOR
SEMI RECESSED KNOX BOX
4" CONC. CURB UNDER STUD AT ALL DRY WALL MECH ROOMS & INTERIOR SIDE OF WALL AT CMU. CONC. CURB TO STOP AT DOORS. TYP - REF. STRUCT.
REF. A1403 & 5/A5.05 FOR PANEL JOINT LOCATIONS ACROSS AREA F FACADE
18' - 8"
22' - 10"
10' - 3 1/8"
140.10°
134.36°
32.52°
41.39°
38' - 7"
60' - 5 1/4" FV
23' - 1" FV
16' - 7 1/8" FV
15' - 9 3/4" FV
23' - 4 3/4" FV
21' - 6" FV
43' - 10 3/4"
16' - 10 3/8"
11 3/8"
9' - 11 3/8"
21' - 4"
9' - 9 3/4"
9' - 4 7/8"
9' - 2 5/8"
16' - 3 1/2"
15' - 1 1/4"
32' - 4 1/4"
28' - 2 3/4"
18' - 2 1/4"
12' - 7 5/8"
11' - 8 1/8"
6' - 5 3/8" FV
8' - 3 7/8" FV
2' - 4 1/8" FV
6' - 8 1/8" FV
7' - 8 1/2" FV
16' - 7 1/8" FV
6' - 6 1/8" FV
6' - 8 1/8" FV
6' - 8 1/8" FV
2' - 11 7/8" FV
6' - 8 1/8" FV
6' - 8 1/8" FV
6' - 8 1

THE MASTER FLOOR PLAN SHOWS THE OVERALL BUILDING CONFIGURATION AND THE RELATIONSHIP OF THE PLAN AREAS WHICH FOLLOW. REFER TO LARGER SCALE FLOOR PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND CONSTRUCTION REQUIREMENTS. MASTER PLAN LEGENDS ALSO APPLY TO 1/8" SCALE FLOOR PLAN AREAS.

MASTER FLOOR PLAN



1 MASTER FLOOR PLAN - LEVEL 02
1/16" = 1'-0"

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Revision / Date

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
7/15/2026

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MASTER FLOOR PLAN - LEVEL 2

VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: CB	A1.02
Date: 07.15.26	

PLAN N

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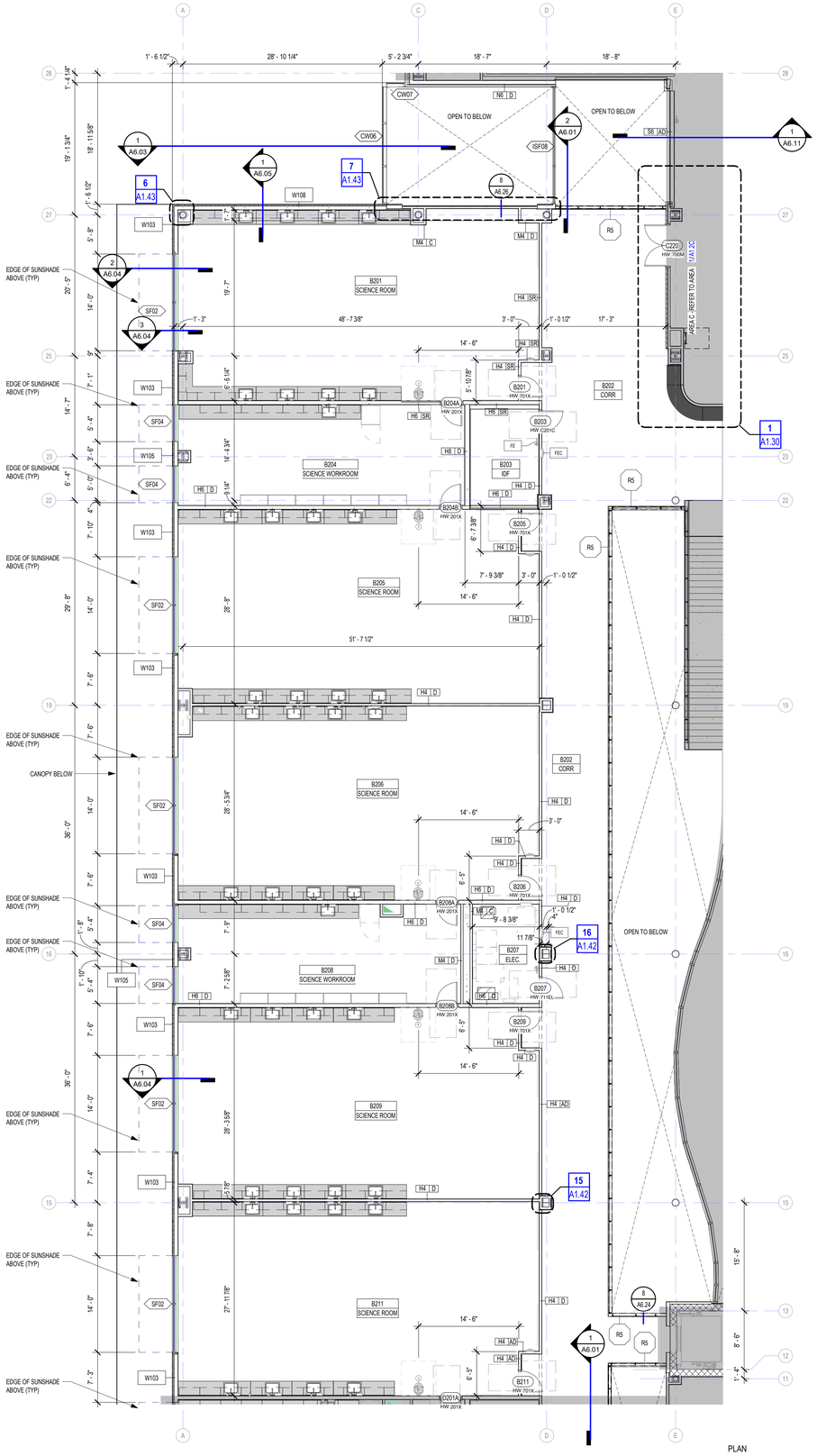


1 FLOOR PLAN - LEVEL 2 - AREA B
1/8" = 1'-0"

PLAN

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F. MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE 13/A2 ABOVE IN LOCATIONS AS SHOWN ON THE PLAN. REF AND FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. — **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. — **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. — **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

X' M.B. — **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

X' T.B. — **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 — **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A — **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 — **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 — **CALLOUT REFERENCE**

1 / A101 — SIM — XX / A101 — **WALL SECTION REFERENCE**

XXX - X" FIN FLOOR — **ELEVATION REFERENCE**

1-01 ROOM — **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

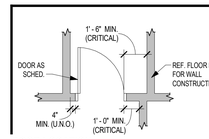
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

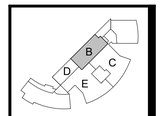
PARTITION LEGEND



DOOR LOCATION

Revision /	Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29 904
STATE OF TEXAS

7/15/2026

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FLOOR PLAN - LEVEL 2 - AREA B

VOLUME 01

Job No. 0/0802-04-01	Sheet No. A1.2B
Drawn By: CB, CI	
Date: 07.15.26	

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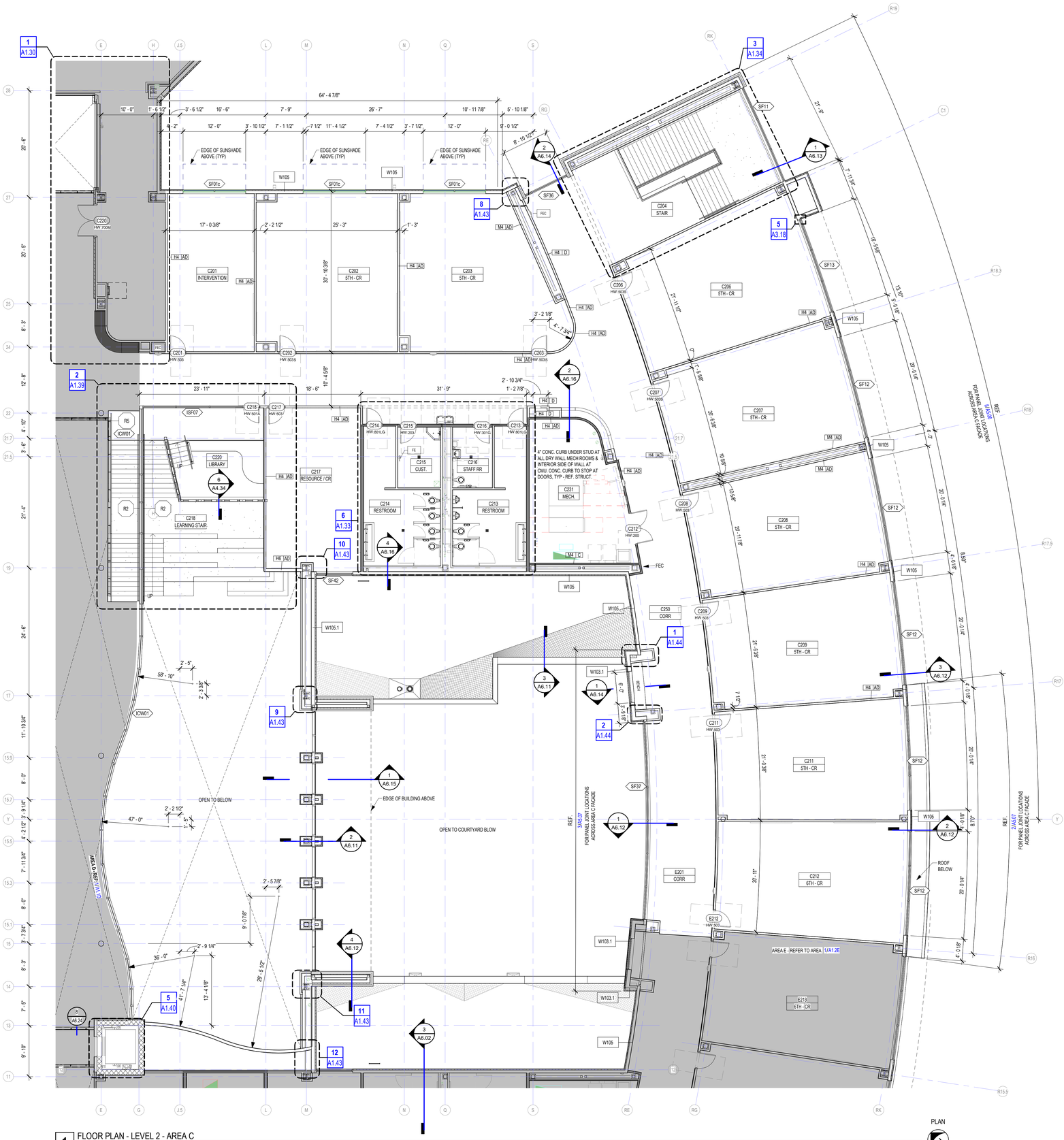


1 FLOOR PLAN - LEVEL 2 - AREA C
1/8" = 1'-0"

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F, MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE FILLED CORES IN LOCATIONS AS SHOWN ON THE PLAN. REF [illegible] AND [illegible] FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

- **F.E.** — **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS
- **F.E.C.** — **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS
- **P.S.** — **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS
- **X' M.B.** — **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS
- **X' T.B.** — **TACKBOARD** REF. TYP. DET. ON A4 SHEETS
- **ELECTRIC WATER COOLER** - REF PLUMBING PLAN.
- 1.01 — **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.
- SF-A — **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.
- SO1.01 — **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.
- 1 / A1.1 — **CALLOUT REFERENCE**
- 1 / A101 SIM — XX / A101 — **WALL SECTION REFERENCE**
- XXX' - X" FIN FLOOR — **ELEVATION REFERENCE**
- 1-01 ROOM — **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 | D

WALL ASSEMBLY'IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

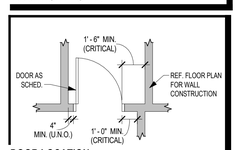
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

   REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

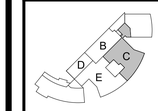
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29834 STATE OF TEXAS
7/15/2026

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FLOOR PLAN - LEVEL 2 - AREA C

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Job No. 00802-04-01	Sheet No. A1.2C
Drawn By: CB,CI	
Date: 07.15.26	

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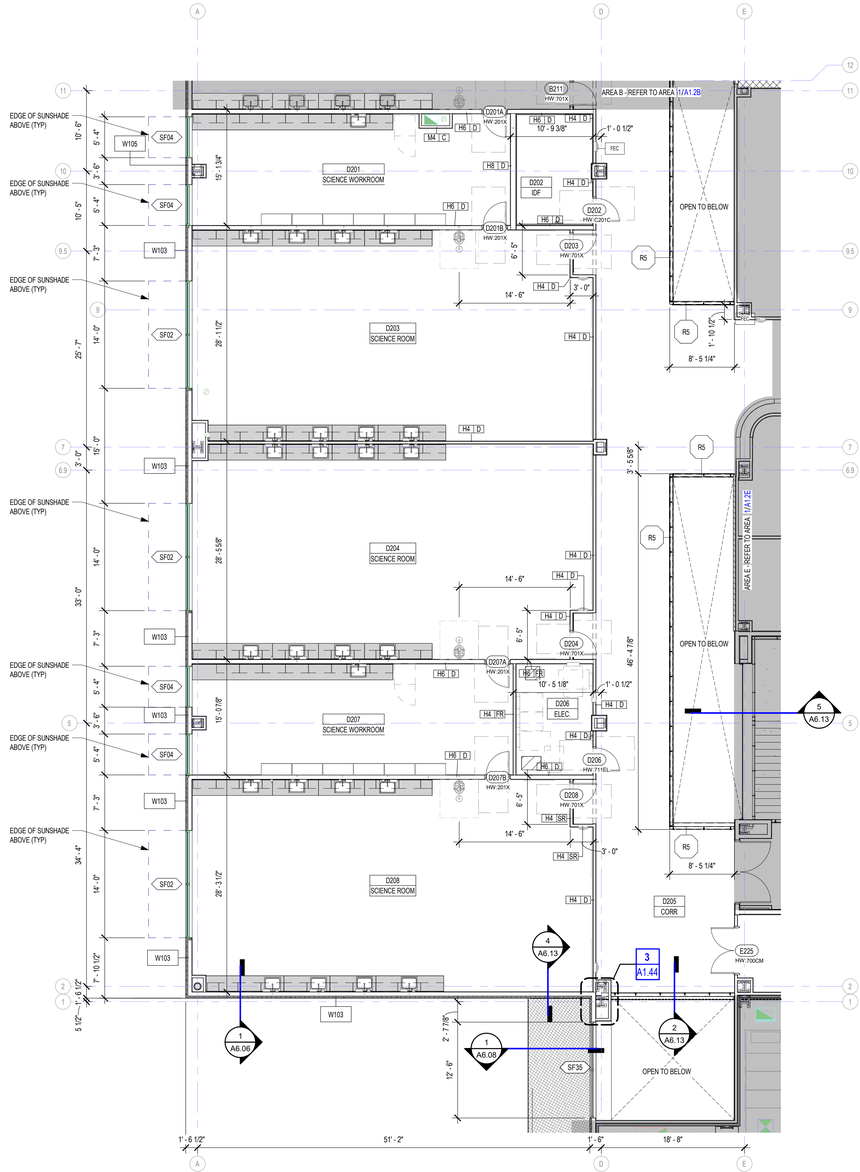


1 FLOOR PLAN - LEVEL 2 - AREA D
1/8" = 1'-0"

PLAN

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F., MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
6. REF. DOOR SCHEDULES AND DETAILS FOR MASONRY ROUGH OPENING SIZES.
7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 13/A6.01 AND 1/A6.01 FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 SIM — XX/A101 **WALL SECTION REFERENCE**

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1-01 ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- **MASONRY VENEER**
- **STANDARD CMU**
- **ARCHITECTURAL CMU (ACMU)**
- **CFMF PARTITION**
- **NON LOAD BEARING CMU**

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY'N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

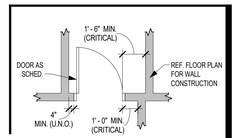
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

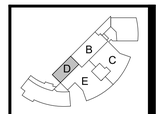
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29818
STATE OF TEXAS
7/15/2026

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FLOOR PLAN - LEVEL 2 - AREA D

VOLUME 01

Job No. 00802-04-01	Sheet No. A1.2D
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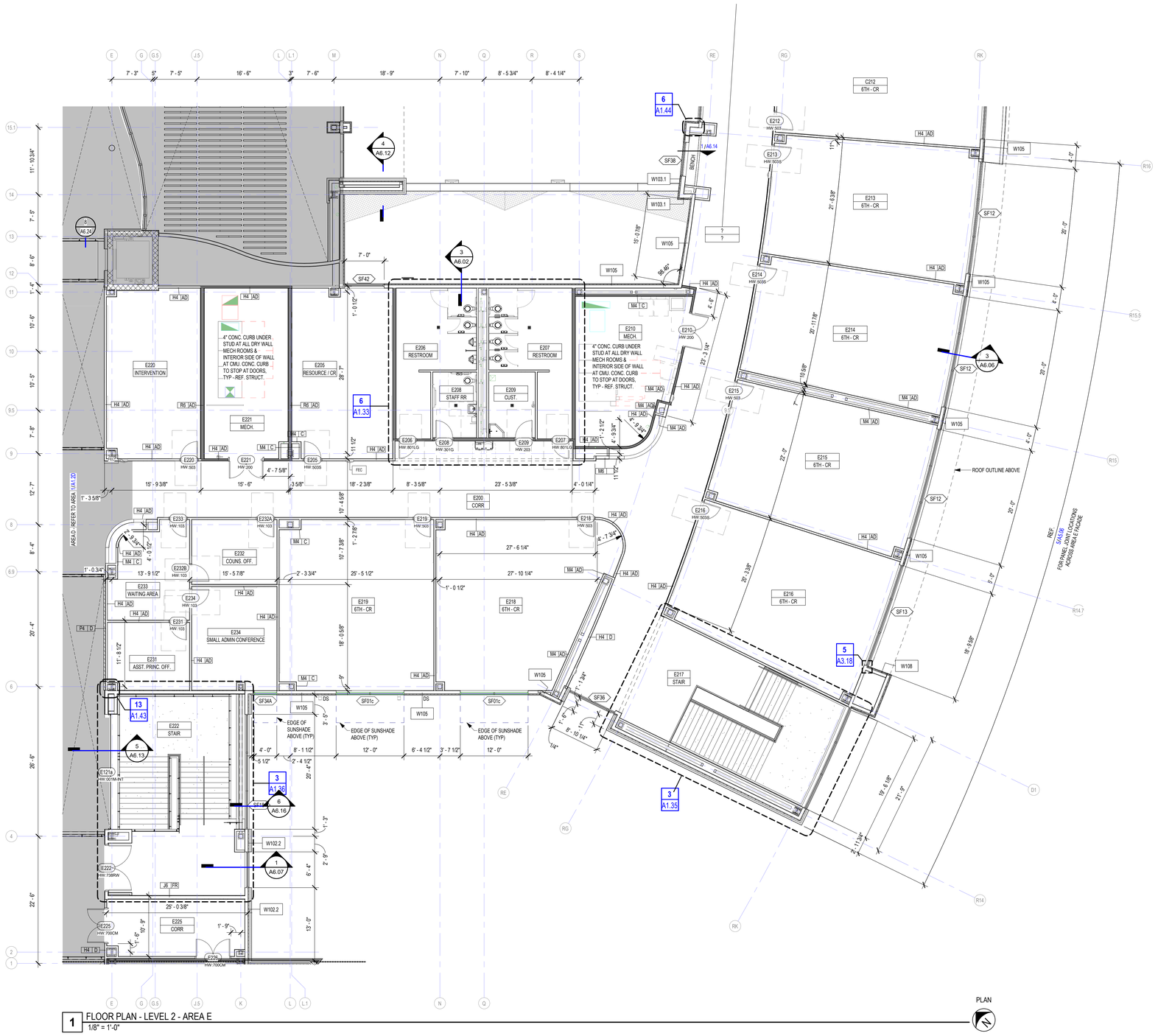

1 FLOOR PLAN - LEVEL 2 - AREA E
1/8" = 1'-0"

PLAN NORTH

NOTES:

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS AND THE SPECIFICATIONS.
2. ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF C.F.M.F. MASONRY, U.N.O.
3. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. SEE SPECIFICATIONS AND G3 SHEETS FOR ADDITIONAL MASONRY AND CFMF PARTITION REQUIREMENTS.
5. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR LOCATIONS OF FIXTURES.
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7. VERIFY ALL MASONRY OPENINGS WITH MANUFACTURERS' PRODUCTS (E.G. FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, ETC.).
8. PROVIDE WD. BLOCKING IN ALL GYP. BD. WALLS AS REQ'D. AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: HANDRAILS, TOILET ACCESSORIES, PROJECTORS, CASEWORK, TACK BD.'S, MARKER BD.'S, WALL STOPS & DOOR HOLDERS.
9. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE 13/A6.02 GIRTS IN LOCATIONS AS SHOWN ON THE PLAN. REF 4/A6.12 AND 1/A6.14 FOR DETAILS.
10. PROVIDE FLEXIBLE GYPSUM PANELS AT CURVED WALLS. SEE SPECIFICATIONS FOR DESIGN.

GENERAL FLOOR PLAN NOTES

F.E. **FIRE EXTINGUISHER (WALL MOUNTED)** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

F.E.C. **FIRE EXTINGUISHER CABINET** - REF. SPEC. SECT. 10 4400. PROVIDE TYPE "K" @ KITCHEN AREAS

P.S. **PROJECTION SCREEN** REF. TYP. DET. ON A4 SHEETS

W.M.B. **MARKERBOARD** REF. TYP. DET. ON A4 SHEETS

T.B. **TACKBOARD** REF. TYP. DET. ON A4 SHEETS

ELECTRIC WATER COOLER - REF PLUMBING PLAN.

1.01 **DOOR ASSEMBLY NUMBER** - REF. SCHEDULE ON A3 SHTS.

SF-A **WINDOW/STOREFRONT/CURTAIN WALL ASSEMBLY TYPE** - REF. A3 SHTS.

SO1.01 **SPECIAL OPENING NUMBER (ROLLING DOOR)** - REF. SCHEDULE ON A3 SHTS.

1 / A1.1 **CALLOUT REFERENCE**

1 / A101 SIM XX / A101 **WALL SECTION REFERENCE**

XXX' - X" FIN FLOOR **ELEVATION REFERENCE**

1-01 ROOM **ROOM NUMBER & NAME**

FLOOR PLAN LEGEND

APPLIES TO AREA PLANS

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION
- NON LOAD BEARING CMU

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

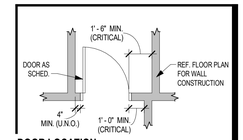
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO DECK ABOVE U.N.O.)
   WALLS/PARTITIONS - TYPE **H4** ACOUSTICAL
   COLUMN FURRING - **M4** NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

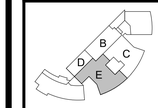
PARTITION LEGEND



DOOR LOCATION

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]

7/15/2026

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FLOOR PLAN - LEVEL 2 - AREA E

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Job No. 0/2602-04-01	Sheet No. A1.2E
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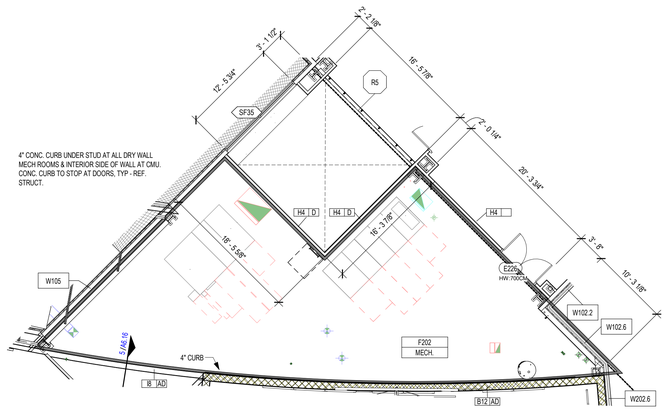
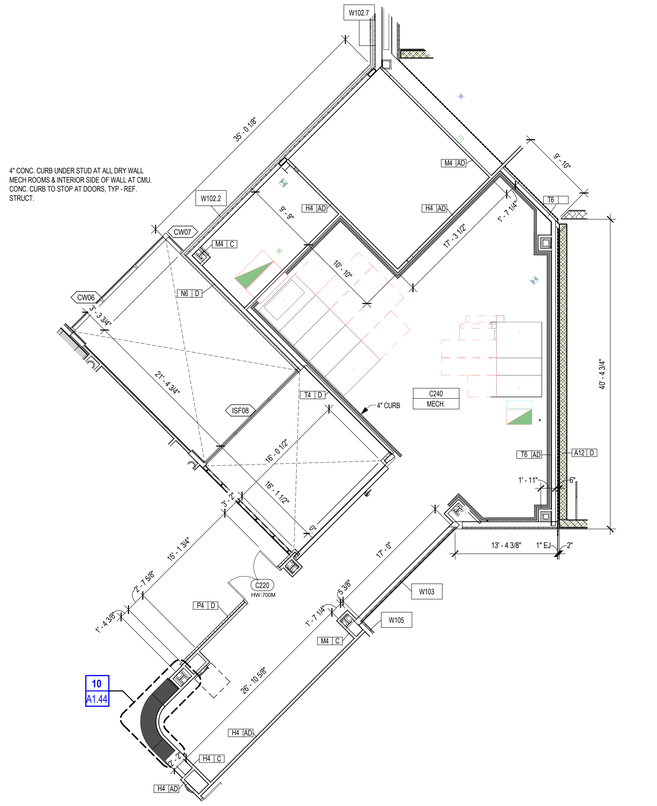


2 FLOOR PLAN - LEVEL 2 - AREA F EQUIPMENT PLAN
1/8" = 1'-0" BACK REF: A1.02



1 FLOOR PLAN - LEVEL 2 - AREA B EQUIPMENT PLAN
1/8" = 1'-0" BACK REF: A1.02

PLAN N

PLAN N

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29134
7/15/2026

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FLOOR PLAN - EQUIPMENT PLATFORMS

VOLUME 01

Job No. 03802-04-01
Drawn By: CB
Date: 07.15.26
Sheet No. A1.30

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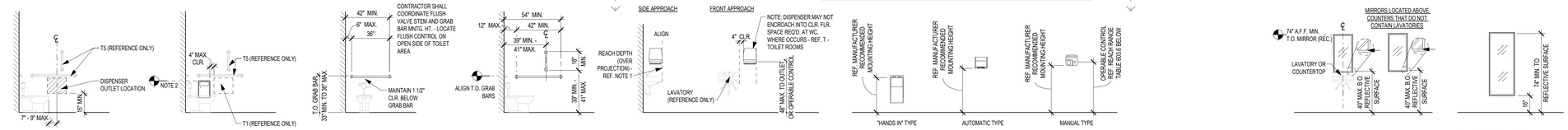
2017 ICC A117.1 TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT (FOR TOWEL DISPENSERS AND HAND DRYERS)						
REACH DEPTH	0.5 INCH	2 INCHES	5 INCHES	6 INCHES	9 INCHES	11 INCHES
REACH HEIGHT	48 INCHES	46 INCHES	42 INCHES	40 INCHES	36 INCHES	34 INCHES



(T1) TOILET TISSUE (ROLL) DISPENSER
2012 TAS 604.7 & 609.3

NOTES:
1. MAINTAIN 1-1/2" CLEARANCE BELOW GRAB BAR.

(T2) SANITARY NAPKIN DISPOSAL

NOTES:
1. MAINTAIN 1-1/2" CLEARANCE BELOW GRAB BAR.
2. ALIGN T.O. DISPOSAL WITH T.O. TOILET TISSUE DISPENSER.

(T4) REAR WALL GRAB BAR
2017 ICC A117.1 604.5.2

NOTES:
1. REAR GRAB BAR SHALL BE PERMITTED TO BE 24" MIN. IN LENGTH, CENTERED ON THE W.C. WHERE WALL SPACE DOES NOT PERMIT A 36" GRAB BAR DUE TO THE LOCATION OF A RECESSED FIXTURE ADJ. TO THE W.C.
2. WHERE THE A.H.J. REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE REAR GRAB BAR, THE GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

(T5) SIDE WALL GRAB BAR
2017 ICC A117.1 604.5.1

(T9) PAPER TOWEL DISPENSER
2017 ICC A117.1 603.6

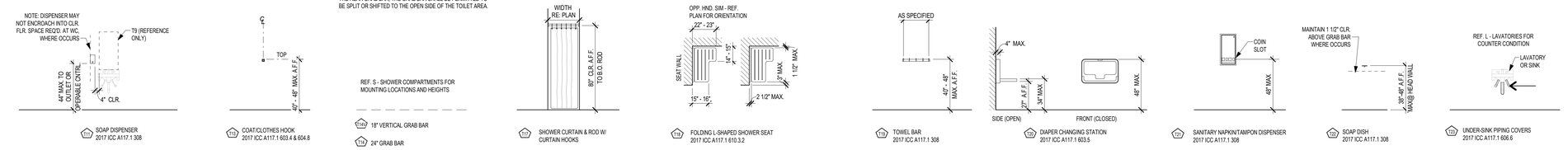
NOTE:
1. REFER TO TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT WHERE DISPENSER CANNOT BE ALIGNED WITH FRONT OF LAVATORY.

(T17) ELECTRIC HAND DRYER
2017 ICC A117.1 603.6

NOTE:
1. REFER TO TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT WHERE DRYER APPROACH MAY BE OBSTRUCTED. IN SUCH AN INSTANCE, THE LOWER MOUNTING HEIGHT APPLIES.

(T18) MIRROR
2017 ICC A117.1 603.3

(T19) MIRROR (FULL-LENGTH)



(T11) SOAP DISPENSER
2017 ICC A117.1 308

(T13) COAT/CLOTHES HOOK
2017 ICC A117.1 603.4 & 604.8

(T14V) 18" VERTICAL GRAB BAR

(T14) 24" GRAB BAR

(T15) L-SHAPED 18" X 30" GRAB BAR

(T16) 30" GRAB BAR

(T17) SHOWER CURTAIN & ROD W/ CURTAIN HOOKS

(T18) FOLDING L-SHAPED SHOWER SEAT
2017 ICC A117.1 610.3.2

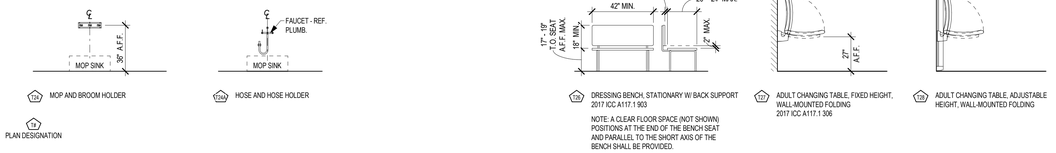
(T19) TOWEL BAR
2017 ICC A117.1 308

(T20) DIAPER CHANGING STATION
2017 ICC A117.1 603.5

(T21) SANITARY NAPKIN/TAMPON DISPENSER
2017 ICC A117.1 308

(T22) SOAP DISH
2017 ICC A117.1 308

(T23) UNDERSINK PIPING COVERS
2017 ICC A117.1 606.6



(T24) MOP AND BROOM HOLDER

(T24A) HOSE AND HOSE HOLDER

(T25) DRESSING BENCH, WALL-MOUNTED FOLDING
2017 ICC A117.1 903

NOTE: A CLEAR FLOOR SPACE (NOT SHOWN) POSITIONS AT THE END OF THE BENCH SEAT AND PARALLEL TO THE SHORT AXIS OF THE BENCH SHALL BE PROVIDED.

(T27) ADULT CHANGING TABLE, FIXED HEIGHT, WALL-MOUNTED FOLDING 2017 ICC A117.1 306

(T28) ADULT CHANGING TABLE, ADJUSTABLE HEIGHT, WALL-MOUNTED FOLDING

(T) PLAN DESIGNATION

1. THIS SHEET PROVIDES GUIDANCE FOR MOUNTING LOCATIONS AND HEIGHTS DERIVED FROM ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. NOT ALL TYPES SCHEDULED MAY BE USED. REFER TO ENLARGED FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
2. CONFIGURATIONS ON THIS SHEET ARE DIAGRAMMATIC. IN THE EVENT A PROJECT-SPECIFIC CONDITION DOES NOT COMPLY WITH CLEARANCES INDICATED, NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
3. TOILET ACCESSORIES: REFER TO SPECIFICATION SECTION 10 2800 TOILET, BATH AND LAUNDRY ACCESSORIES FOR ADDITIONAL INFORMATION.
4. FIXTURES: REFER TO PLUMBING PLANS FOR SCHEDULED TYPE AND DIVISION 22 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. AT METAL STUD PARTITIONS, PROVIDE FIRE-RETARDANT TREATED WOOD BLOCKING FOR ANCHORAGE OF GRAB BARS, WALL-MOUNTED SEATS AND BENCHES, DIAPER CHANGING STATIONS, AND OTHER SUCH WALL-MOUNTED ACCESSORIES WHERE ADDITIONAL LOADS ARE ANTICIPATED.

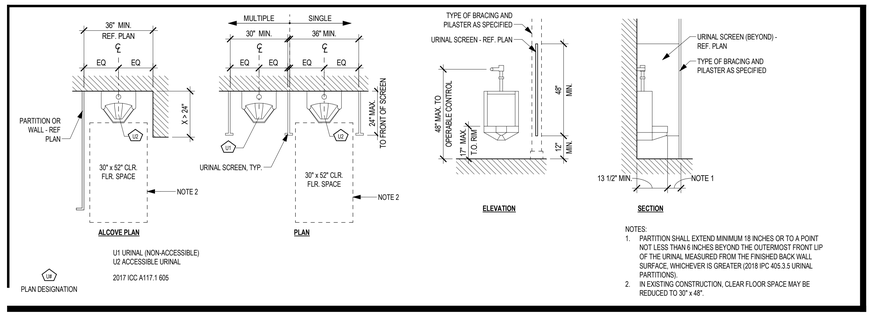
TOILET ACCESSORY LEGEND	
ITEM	DESCRIPTION
T1	TOILET TISSUE DISPENSER
T2	SANITARY NAPKIN DISPOSAL
T4	REAR WALL GRAB BAR
T5	SIDE WALL GRAB BARS
T6	PAPER TOWEL DISPENSER
T7	ELECTRIC HAND DRYER
T8	PAPER TOWEL DISPENSER AND WASTE DISPOSAL
T9	MIRROR
T10	MIRROR, FULL-LENGTH
T11	SOAP DISPENSER
T13	COAT/CLOTHES HOOK
T14	24" GRAB BAR
T14V	18" VERTICAL GRAB BAR
T15	L-SHAPED 18" X 30" GRAB BAR
T16	30" GRAB BAR
T17	SHOWER CURTAIN & ROD W/ CURTAIN HOOKS
T18	FOLDING L-SHAPED SHOWER SEAT
T19	TOWEL BAR
T20	DIAPER CHANGING STATION
T21	SANITARY NAPKIN/TAMPON DISPENSER
T22	SOAP DISH
T23	UNDERSINK PIPING COVERS
T24	MOP AND BROOM HOLDER
T24A	MOP BASIN HOSE AND BRACKET
T25	DRESSING BENCH, WALL-MOUNTED FOLDING
T26	DRESSING BENCH, STATIONARY W/ BACK SUPPORT
T27	ADULT CHANGING TABLE, FIXED HEIGHT, WALL-MOUNTED FOLDING
T28	ADULT CHANGING TABLE, ADJUSTABLE HEIGHT, WALL-MOUNTED FOLDING

PLUMBING FIXTURE LEGEND	
ITEM	DESCRIPTION
EW1	ELECTRIC WATER COOLER, WALL-MOUNTED, ACCESSIBLE
EW1B	ELECTRIC WATER COOLER, WALL-MOUNTED, ACCESSIBLE, WITH BOTTLE FILLER
EW2	ELECTRIC WATER COOLER, WALL-MOUNTED
L1	LAVATORY, WALL-MOUNTED, ACCESSIBLE
L2	LAVATORY, COUNTER-MOUNTED, ACCESSIBLE
MS	MOP SINK
U1	URINAL
U2	URINAL, ACCESSIBLE
WC1	WATER CLOSET
WC2	WATER CLOSET, ACCESSIBLE
WF	WASH FOUNTAIN

1. NOT ALL TYPES MAY BE USED IN THE PROJECT.
2. REFER TO TOILET ACCESSORIES AND PLUMBING FIXTURES' SHEET FOR ADDITIONAL INFORMATION.

GUIDANCE PROVIDED IS FOR CHILDREN IN K - 2ND GRADE (AGES 5 - 8) WHERE BUILDING ELEMENTS OR OPERABLE PARTS ARE DESIGNED FOR USE PRIMARILY BY CHILDREN IN ACCORDANCE WITH ICC A117.1. REFER TO ADULT MOUNTING HEIGHT SHEET FOR ALL OTHER FIXTURES AND ACCESSORIES.

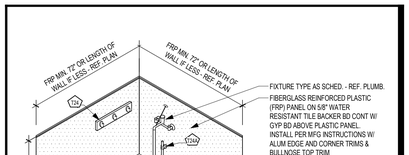
GENERAL NOTES



U1 URINAL (NON-ACCESSIBLE)
U2 ACCESSIBLE URINAL
2017 ICC A117.1 605

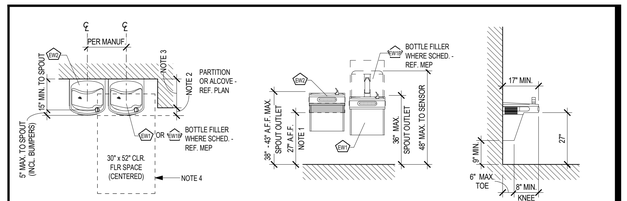
(U) PLAN DESIGNATION

NOTES:
1. PARTITION SHALL EXTEND MINIMUM 18 INCHES OR TO A POINT NOT LESS THAN 6 INCHES BEYOND THE OUTERMOST FRONT LIP OF THE URINAL MEASURED FROM THE FINISHED BACK WALL SURFACE, WHICHEVER IS GREATER (2018 IPC 405.3.5 URINAL PARTITIONS).
2. IN EXISTING CONSTRUCTION, CLEAR FLOOR SPACE MAY BE REDUCED TO 30" x 48".



(MS) PLAN DESIGNATION

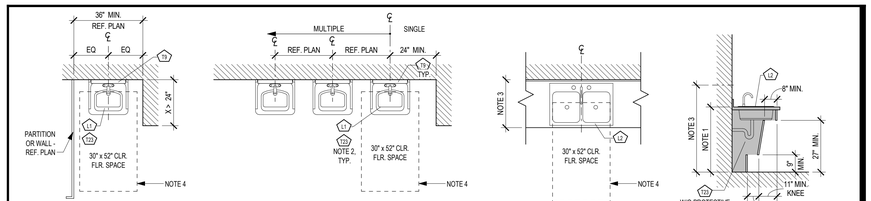
NOTE: FLOORING AS SCHED.



(EW) PLAN DESIGNATION

EW1 ACCESSIBLE WATER COOLER (LOW)
EW1B ACCESSIBLE WATER COOLER W/ BOTTLE FILLER (LOW)
EW2 STANDING PERSONS WATER COOLER (HIGH)
2017 ICC A117.1 602

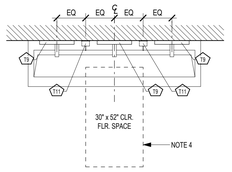
NOTES:
1. PROVIDE CANE DETECTION APRON AT EW2. MUST NOT IMPEDE CLEAR FLOOR SPACE REQUIREMENT FOR ADJACENT UNIT.
2. WHERE LOCATED IN ALCOVES, CANE DETECTION APRON NOT REQUIRED WHEN PROTRUSION IS 4" OR LESS.
3. WHERE A CLEAR FLOOR SPACE IS POSITIONED FOR A FORWARD APPROACH, THE ALCOVE SHALL BE 36 INCHES MINIMUM IN WIDTH WHERE THE DEPTH EXCEEDS 24 INCHES.
4. IN EXISTING CONSTRUCTION, CLEAR FLOOR SPACE MAY BE REDUCED TO 30" x 48".



(LA) PLAN DESIGNATION

L1 WALL-MOUNTED LAVATORY
L2 COUNTER-MOUNTED SINK
2017 ICC A117.1 606

NOTES:
1. THE FRONT OF THE LAVATORIES AND SINKS SHALL BE 34 INCHES MAXIMUM ABOVE THE FLOOR MEASURED TO THE HIGHER OF THE RIM OR COUNTER SURFACE.
2. PROVIDE AT EACH LAVATORY.
3. TOILET ACCESSORY MOUNTING HEIGHTS TO OPERABLE CONTROLS SHALL BE 44" A.F.F. MAX. WHERE THE FORWARD REACH DEPTH OVER THE COUNTER IS >20" AND NOT MORE THAN 25" MAX.
4. IN EXISTING CONSTRUCTION, CLEAR FLOOR SPACE MAY BE REDUCED TO 30" x 48".



WF2 = 2 STATIONS
WF3 = 3 STATIONS

(WF) PLAN DESIGNATION

2017 ICC A117.1 606

NOTES:
1. MOUNT 34" A.F.F. TO TOP OF FRONT RIM.
2. UNITS MUST COMPLY WITH KNEE AND TOE CLEARANCES AS SHOWN FOR LAVATORIES:
3. REFER TO MEP FOR FIXTURE SCHEDULE.
4. IN EXISTING CONSTRUCTION, CLEAR FLOOR SPACE MAY BE REDUCED TO 30" x 48".

Date
Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNICH
29
STATE OF TEXAS
7/15/2026

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TOILET ACCESSORIES AND PLUMBING FIXTURES

VOLUME 01

Job No.	Sheet No.
00803-04-01	A1.31
Drawn By: CI	
Date: 07.15.26	

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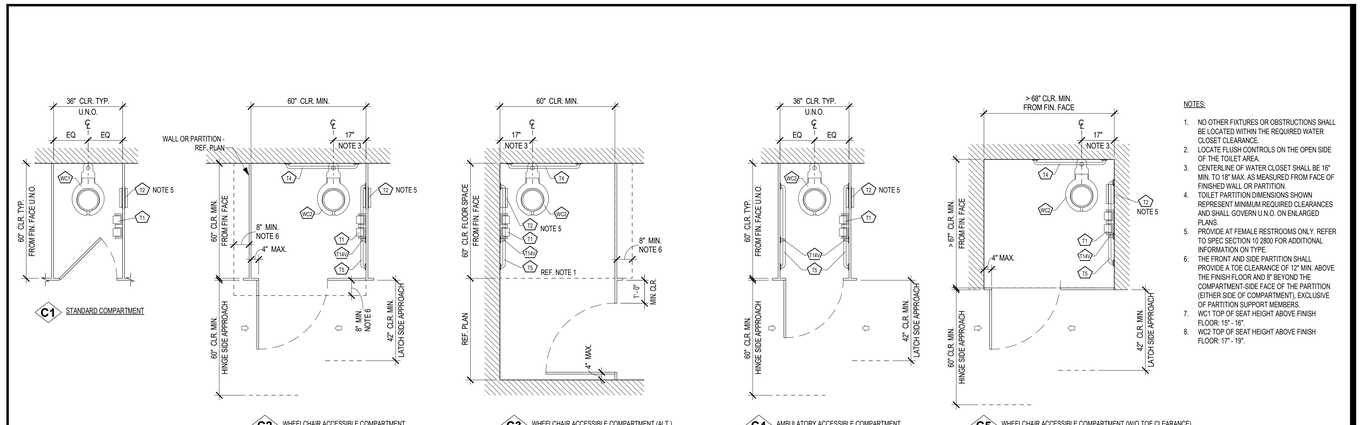

NOTES:

1. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.
2. LOCATE FLUSH CONTROLS ON THE OPEN SIDE OF THE TOILET AREA.
3. CENTERLINE OF WATER CLOSET SHALL BE 16" MIN. TO 18" MAX. AS MEASURED FROM FACE OF FINISHED WALL OR PARTITION.
4. TOILET PARTITION DIMENSIONS SHOWN REPRESENT MINIMUM REQUIRED CLEARANCES AND SHALL GOVERN U.N.O. ON ENLARGED PLANS.
5. PROVIDE AT FEMALE RESTROOMS ONLY. REFER TO SPEC SECTION 10 2800 FOR ADDITIONAL INFORMATION ON TYPE.
6. THE FRONT AND SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 12" MIN. ABOVE THE FINISH FLOOR AND 8" BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION (EITHER SIDE OF COMPARTMENT), EXCLUSIVE OF PARTITION SUPPORT MEMBERS.
7. WC1 TOP OF SEAT HEIGHT ABOVE FINISH FLOOR: 15" - 16".
8. WC2 TOP OF SEAT HEIGHT ABOVE FINISH FLOOR: 17" - 19".

TOILET ACCESSORY LEGEND	
ITEM	DESCRIPTION
T1	TOILET TISSUE DISPENSER (OFCI)
T2	SANITARY NAPKIN DISPOSAL
T4	REAR WALL GRAB BAR
T5	SIDE WALL GRAB BARS
T6	PAPER TOWEL DISPENSER (OFCI)
T7	ELECTRIC HAND DRYER
T8	PAPER TOWEL DISPENSER AND WASTE DISPOSAL
T9	MIRROR
T10	MIRROR, FULL-LENGTH
T11	SOAP DISPENSER (OFCI)
T13	COAT/CLOTHES HOOK
T14	24" GRAB BAR
T14V	18" VERTICAL GRAB BAR
T15	L-SHAPED 18" X 30" GRAB BAR
T16	30" GRAB BAR
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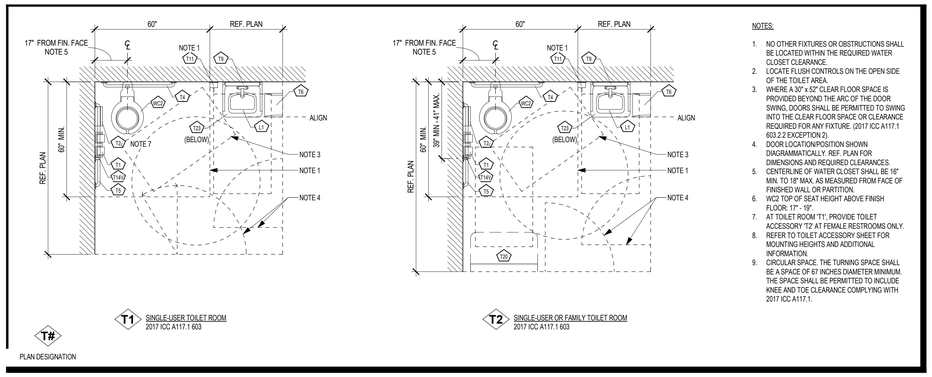

NOTES:

1. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.
2. LOCATE FLUSH CONTROLS ON THE OPEN SIDE OF THE TOILET AREA.
3. WHERE A 30" x 52" CLEAR FLOOR SPACE IS PROVIDED BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. (2017 ICC A117.1 603.2.2 EXCEPTION 2).
4. DOOR LOCATION/POSITION SHOWN DIAGRAMMATICALLY. REF. PLAN FOR DIMENSIONS AND REQUIRED CLEARANCES.
5. CENTERLINE OF WATER CLOSET SHALL BE 16" MIN. TO 18" MAX. AS MEASURED FROM FACE OF FINISHED WALL OR PARTITION.
6. WC2 TOP OF SEAT HEIGHT ABOVE FINISH FLOOR: 17" - 19".
7. AT TOILET ROOM 'T1', PROVIDE TOILET ACCESSORY 'T2' AT FEMALE RESTROOMS ONLY.
8. REFER TO TOILET ACCESSORY SHEET FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION.
9. CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 67 INCHES DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 2017 ICC A117.1.

PLUMBING FIXTURE LEGEND	
ITEM	DESCRIPTION
EW1	ELECTRIC WATER COOLER, WALL-MOUNTED, ACCESSIBLE
EW1B	ELECTRIC WATER COOLER, WALL-MOUNTED, ACCESSIBLE, WITH BOTTLE FILLER
EW2	ELECTRIC WATER COOLER, WALL-MOUNTED
L1	LAVATORY, WALL-MOUNTED, ACCESSIBLE
L2	LAVATORY, COUNTER-MOUNTED, ACCESSIBLE
MS	MOP SINK
U1	URINAL
U2	URINAL, ACCESSIBLE
WC1	WATER CLOSET
WC2	WATER CLOSET, ACCESSIBLE
WF	WASH FOUNTAIN

1. NOT ALL TYPES MAY BE USED IN THE PROJECT.
2. REFER TO 'TOILET ACCESSORIES AND PLUMBING FIXTURES' SHEET FOR ADDITIONAL INFORMATION.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29814
STATE OF TEXAS
7/15/2026

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TOILET ROOMS AND COMPARTMENTS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A1.32
Drawn By: CI	
Date: 07.15.26	

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30" x 52" CLEAR FLOOR SPACE PER ACCESSIBILITY REQUIREMENTS

67" DIAMETER TURNING SPACE PER ACCESSIBILITY REQUIREMENTS

PLAN LEGEND

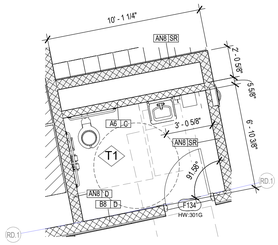
1. FOR ACCESSIBLE FIXTURES & ACCESSORIES REFER TO SHEET A1.31 "TOILET ACCESSORIES AND PLUMBING FIXTURES" FOR MOUNTING HEIGHTS & ACCESSIBILITY REQUIREMENTS. THE ACCESSORIES ARE CALLED OUT IN THE INDIVIDUAL STALL / ROOM TYPES / SHOWER TYPES.

   C1 T1 S1

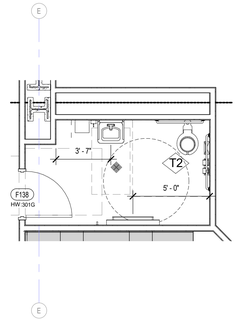
2. FIXTURES THAT STAND ALONE WILL BE TAGGED W/ A SYMBOL; LAVS, URINAL'S & EWC'S (L1) (U1)

3. PROVIDE PIPE INSULATION AS SPECIFIED AT ALL EXPOSED PIPING AND DRAIN AT ACCESSIBLE LAVATORIES.

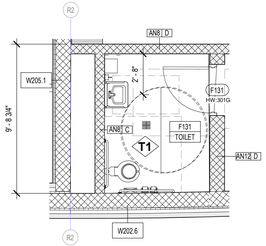
GENERAL NOTES



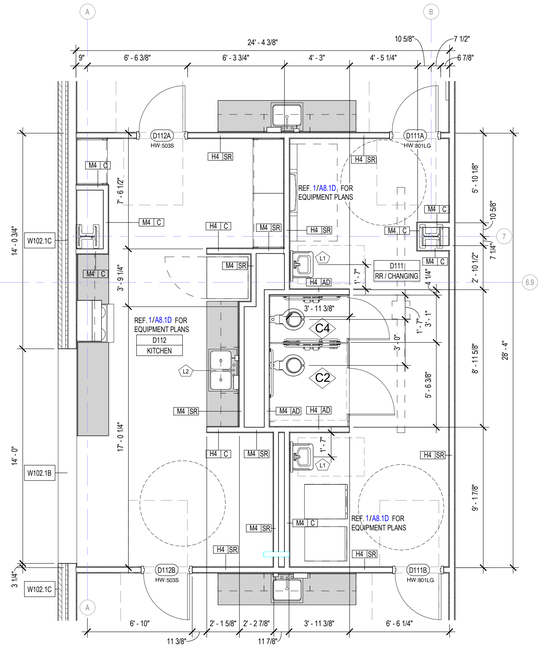
13 ENLARGED RESTROOM PLAN - AREA F
1/4" = 1'-0" BACK REF: A1.1F



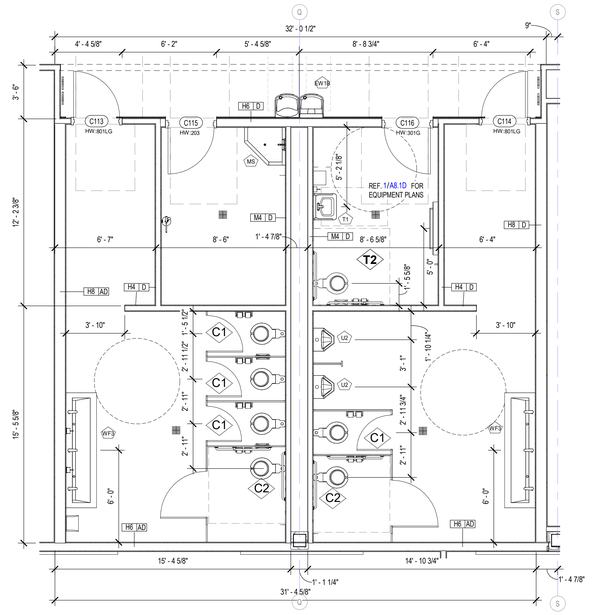
12 ENLARGED RESTROOM PLAN - AREA F
1/4" = 1'-0" BACK REF: A1.1F



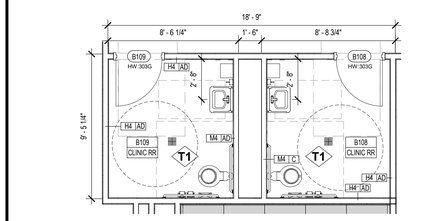
11 ENLARGED RESTROOM PLAN - AREA F
1/4" = 1'-0" BACK REF: A1.1F



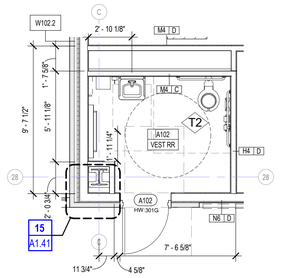
7 ENLARGED RESTROOM PLAN - AREA D
1/4" = 1'-0"



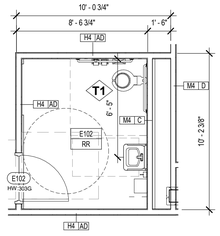
6 ENLARGED RESTROOM PLAN - AREA C & E
1/4" = 1'-0"



10 ENLARGED RESTROOM PLAN - AREA B
1/4" = 1'-0"



9 ENLARGED RESTROOM PLAN - AREA A
1/4" = 1'-0"



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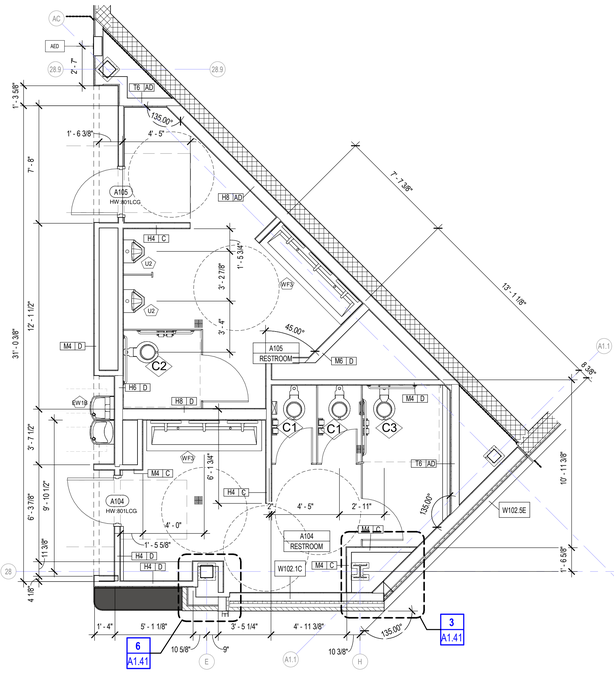
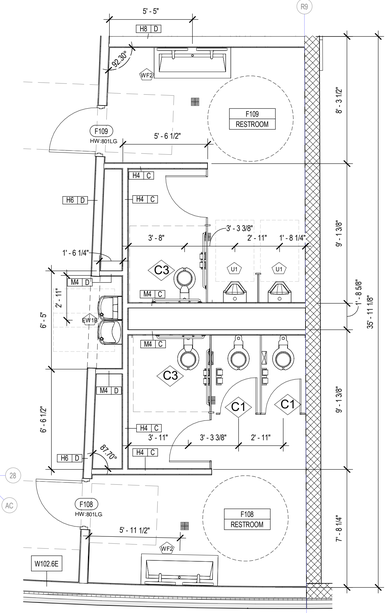
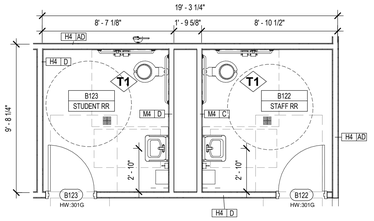
1/4" = 1'-0"



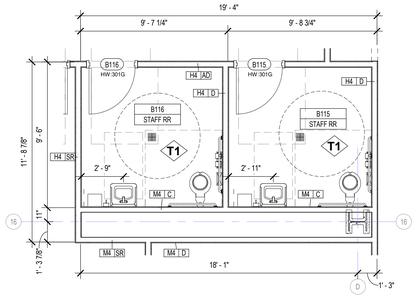
2 ENLARGED RESTROOM PLAN - AREA A
1/4" = 1'-0"



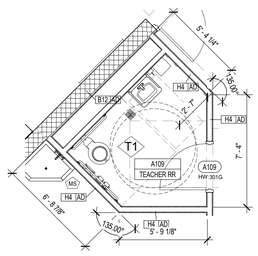
1 ENLARGED RESTROOM PLAN - AREA F
1/4" = 1'-0"



5 ENLARGED RESTROOM PLAN - AREA B
1/4" = 1'-0"



4 ENLARGED RESTROOM PLAN - AREA B
1/4" = 1'-0"



3 ENLARGED RESTROOM PLAN - AREA A
1/4" = 1'-0"

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Revision / Date

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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
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7/15/2026

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ENLARGED PLANS - TOILETS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A1.33
Drawn By: CB, CI	
Date: 07.15.26	

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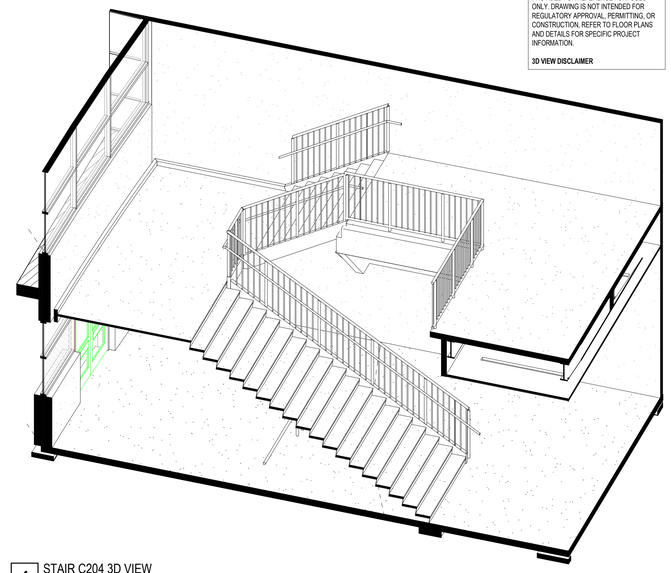
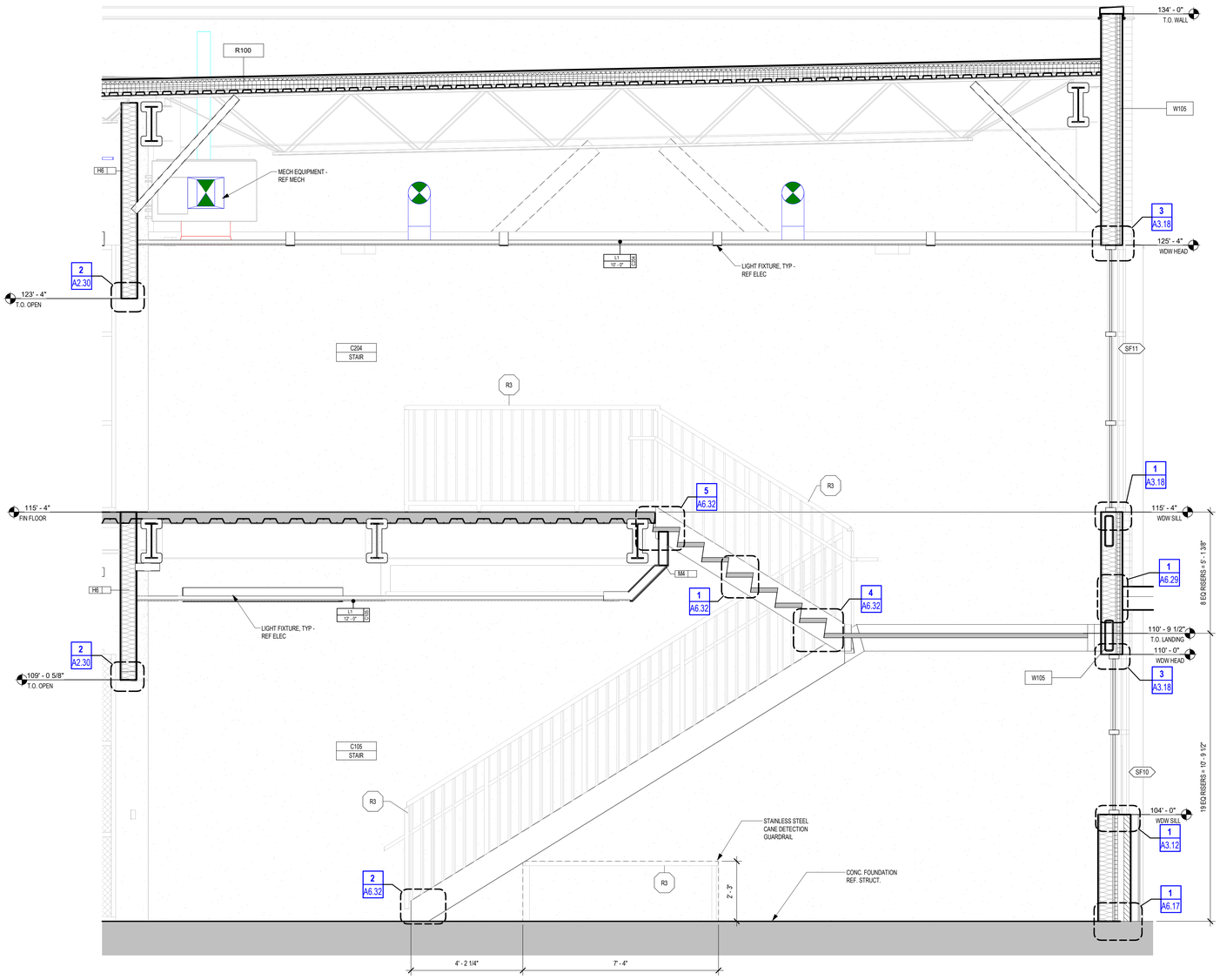
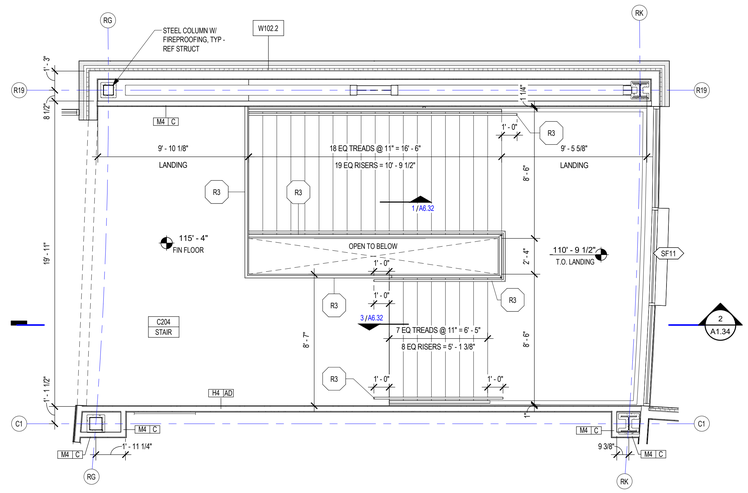
3D VIEW DISCLAIMER



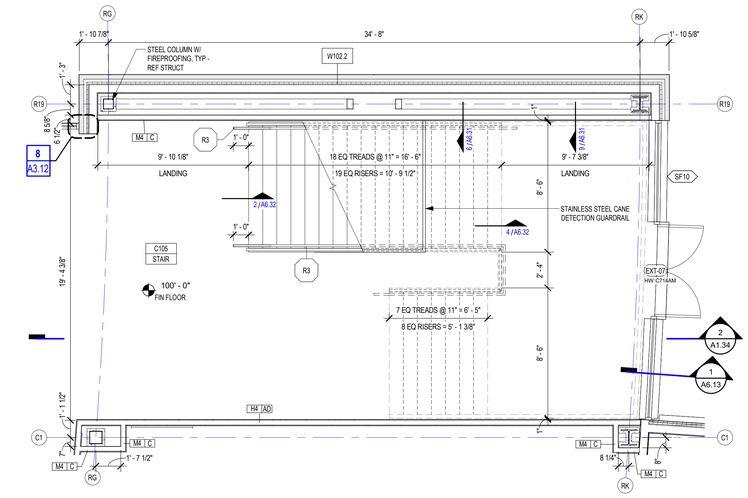
4 STAIR C204 3D VIEW
N.T.S.



2 SECTION - STAIR C204
1/2" = 1'-0"



3 ENLARGED PLAN - STAIR C204 - LEVEL 2
1/4" = 1'-0" BACK REF: A1.2C



1 ENLARGED PLAN - STAIR C105 - LEVEL 1
1/4" = 1'-0" BACK REF: A1.1C

Revision / Date

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TOMBALL, TEXAS

REGISTERED ARCHITECT
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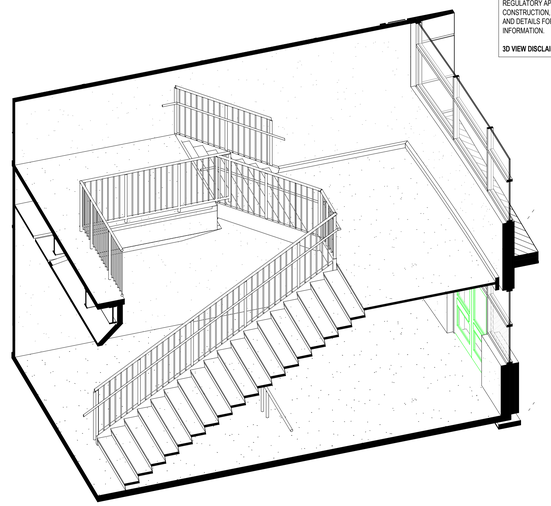
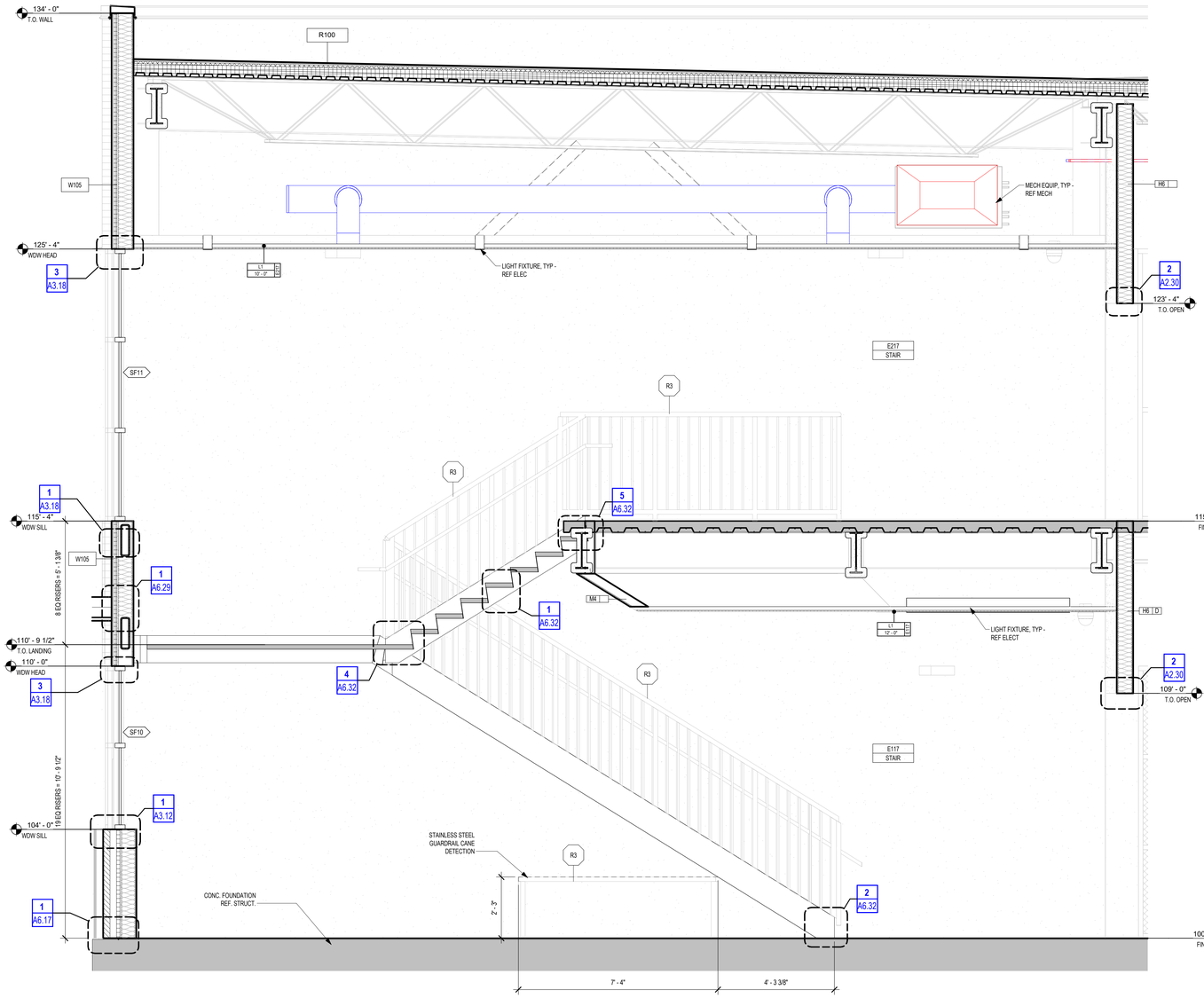
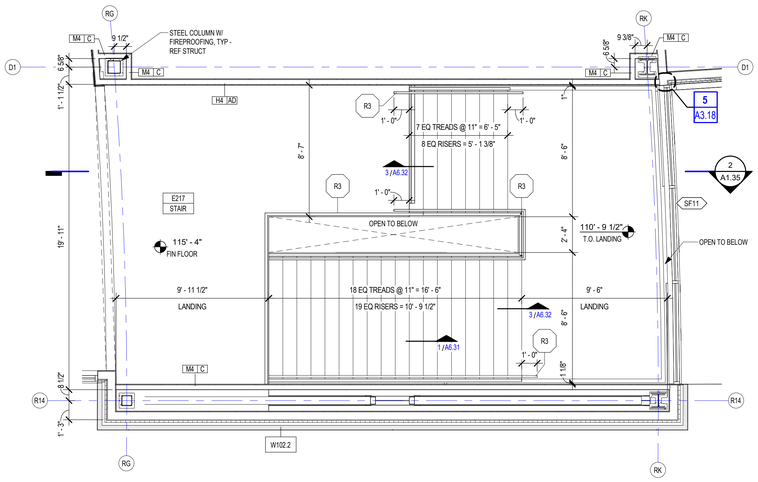


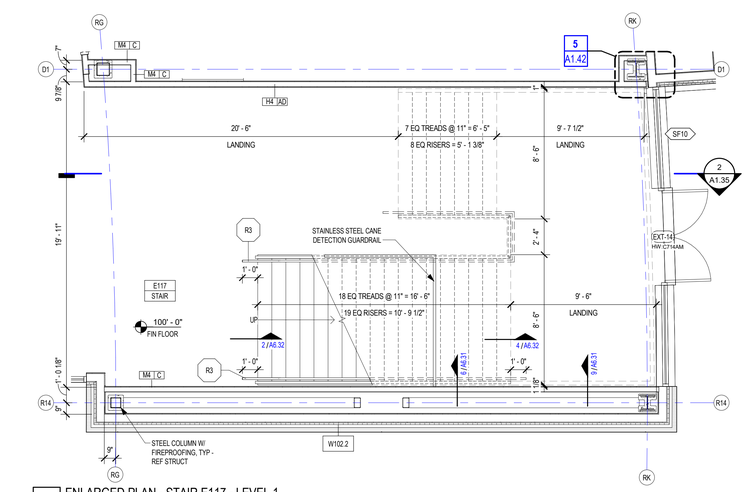
4 STAIR E217 3D VIEW
N.T.S.



2 SECTION - STAIR E217
1/2" = 1'-0"



3 ENLARGED PLAN - STAIR E217 - LEVEL 2
1/4" = 1'-0" BACK REF: A1.2E



1 ENLARGED PLAN - STAIR E117 - LEVEL 1
1/4" = 1'-0" BACK REF: A1.1E

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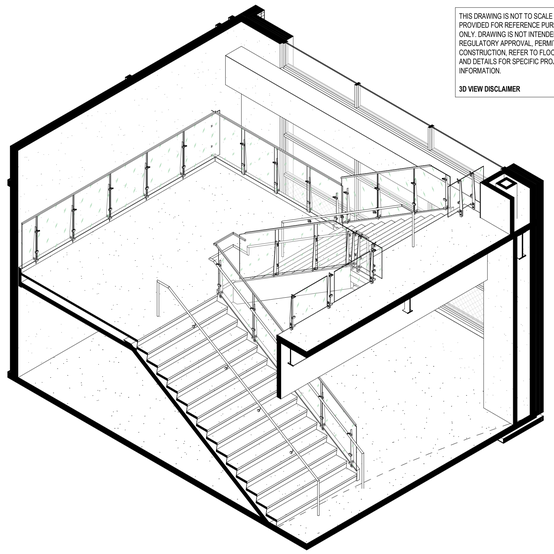

4 SECTION - STAIR E217 - 3D VIEW
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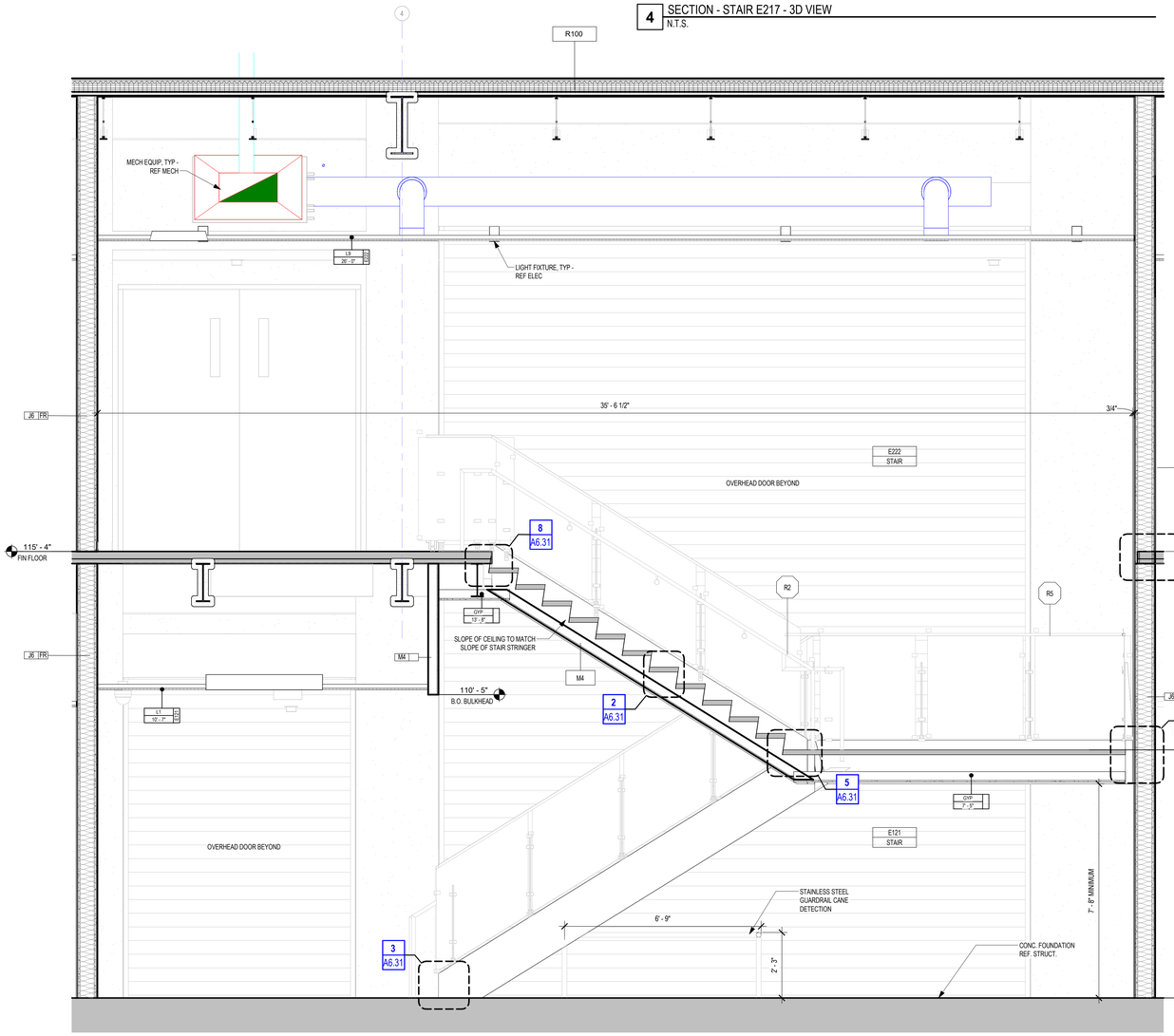
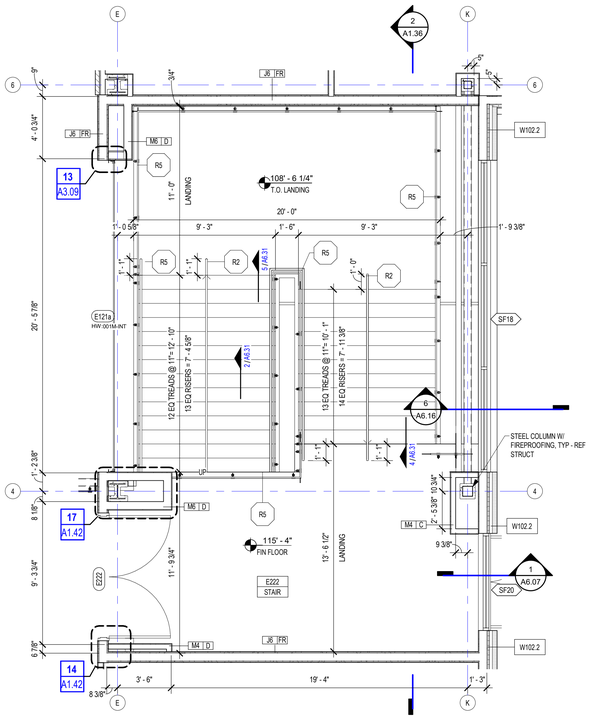
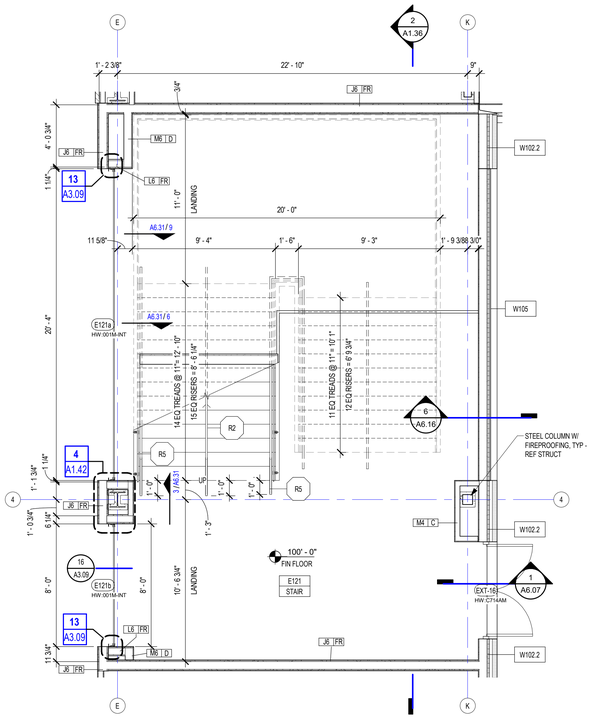


2 SECTION - STAIR E222
1/2" = 1'-0"



3 ENLARGED PLAN - STAIR E222 - LEVEL 2
1/4" = 1'-0" BACK REF: A1.2E



1 ENLARGED PLAN - STAIR E121 - LEVEL 1
1/4" = 1'-0" BACK REF: A1.1E

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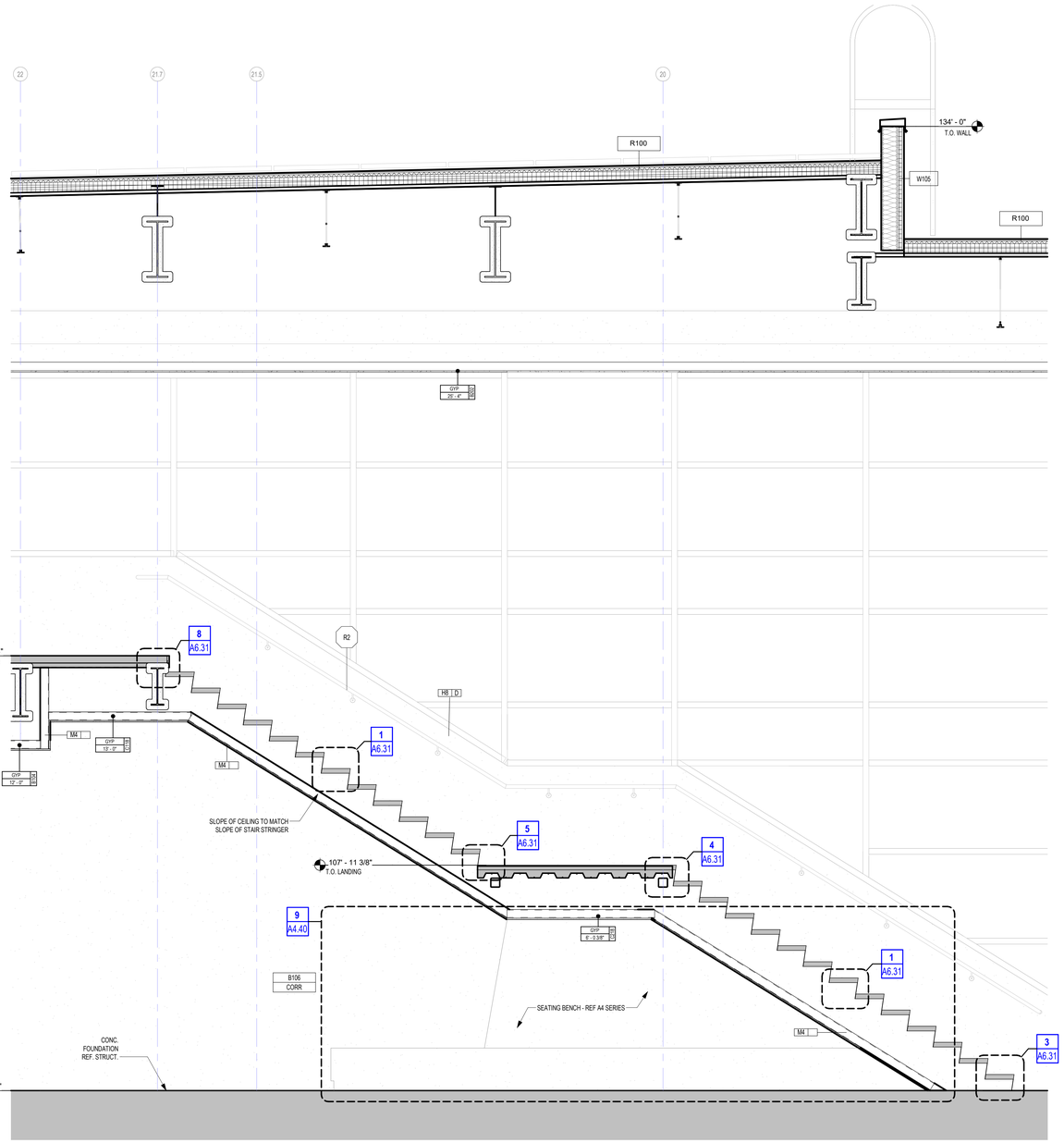

2 SECTION - LEARNING STAIR
1/2" = 1'-0"

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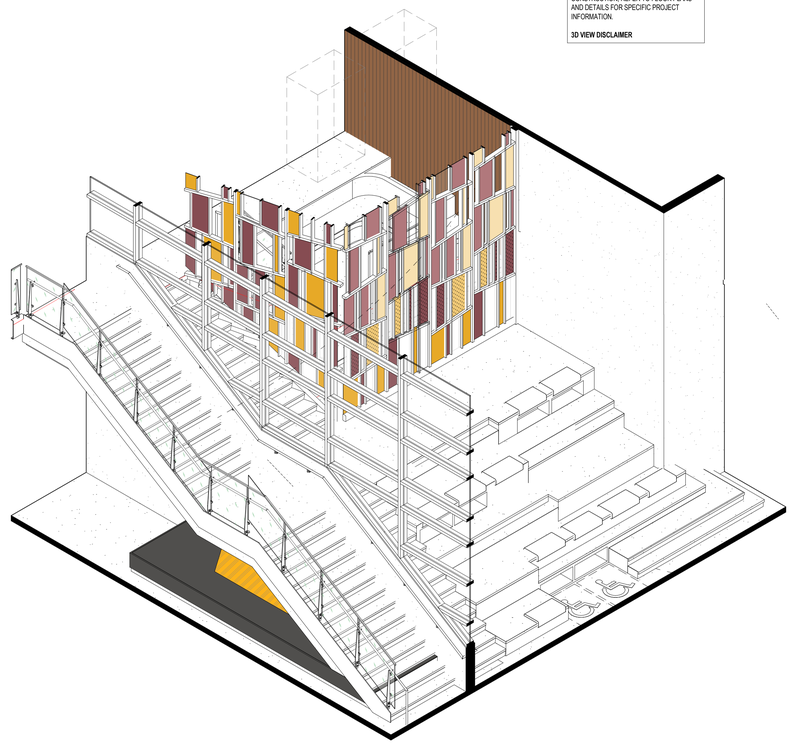

3 LEARNING STAIR 3D VIEW

1 ENLARGED PLAN - LEARNING STAIR - LEVEL 1
1/4" = 1'-0" BACK REF: A1.1C

Revision / Date

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ENLARGED PLANS - LEARNING STAIRS

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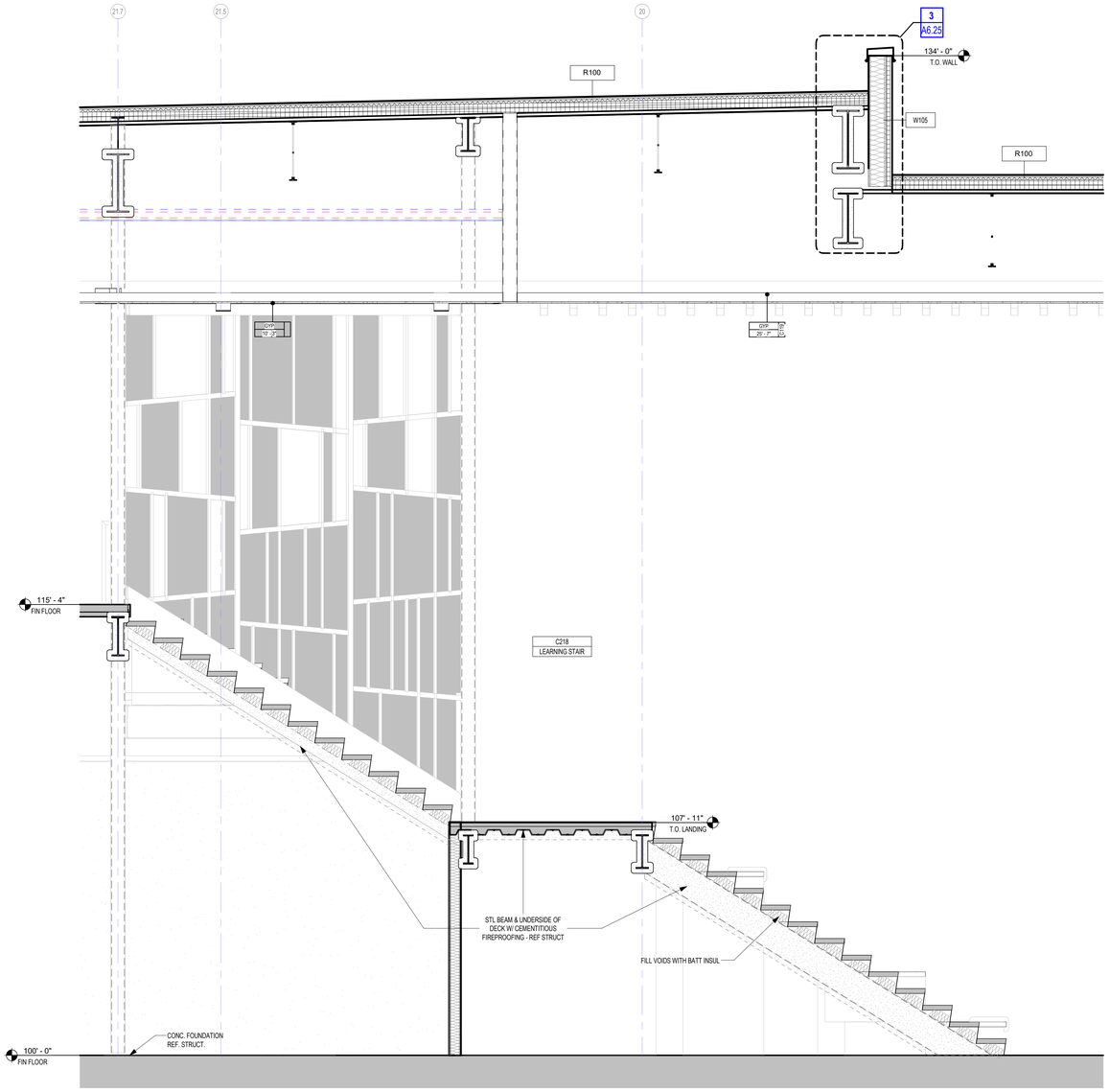

6 SECTION - LEARNING STAIR 6
1/2" = 1'-0"

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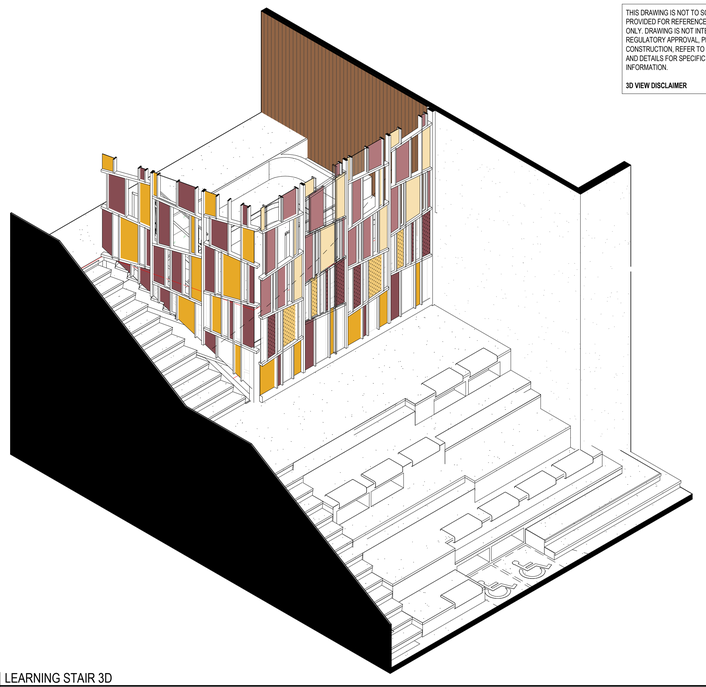
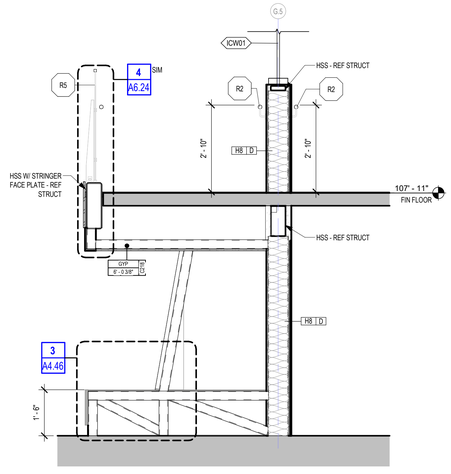
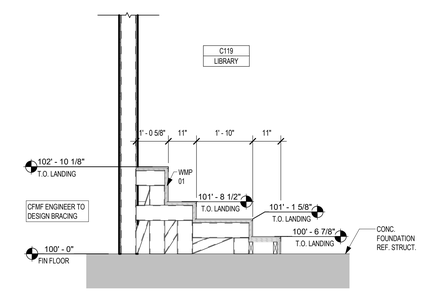


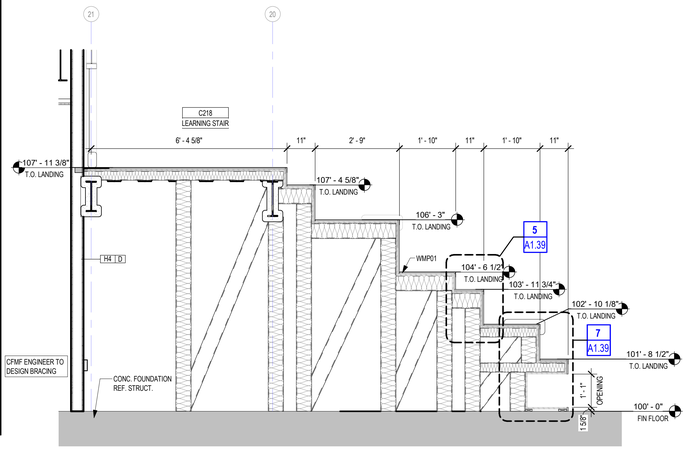
5 LEARNING STAIR 3D
N.T.S.



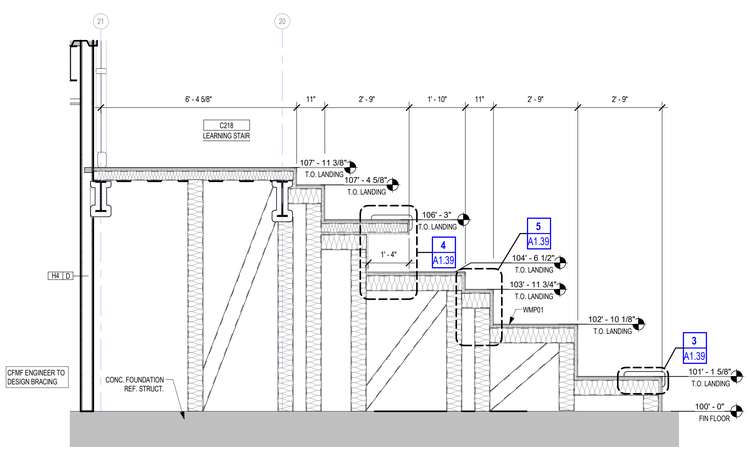
7 SECTION - LEARNING STAIRS 6
1/2" = 1'-0"



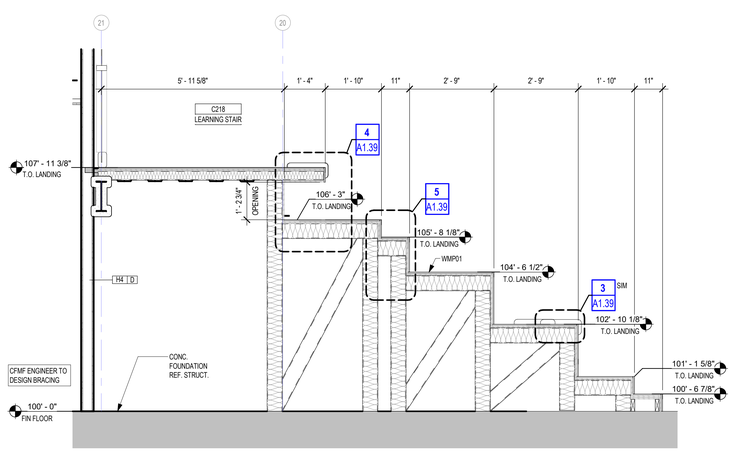
4 SECTION - LEARNING STAIR 5
1/2" = 1'-0"



3 SECTION - LEARNING STAIR 4
1/2" = 1'-0"



2 SECTION - LEARNING STAIR 3
1/2" = 1'-0"



1 SECTION - LEARNING STAIR 2
1/2" = 1'-0"

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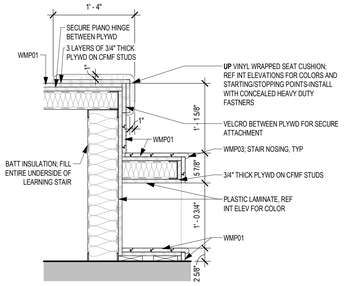
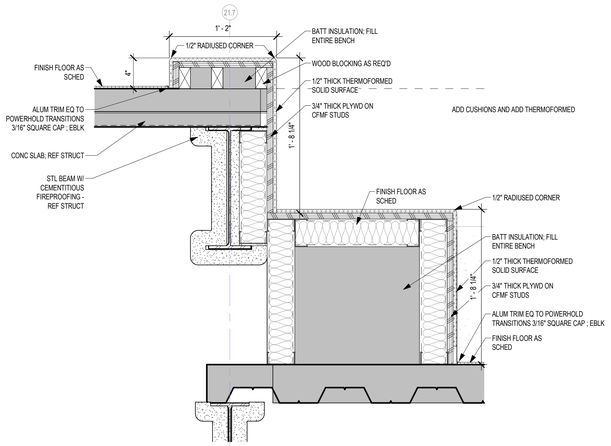
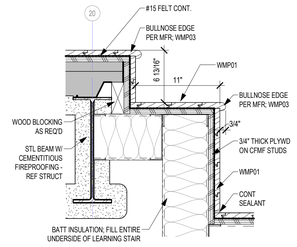


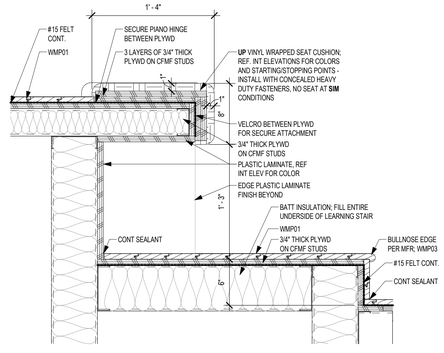
7 SECTION - LEARNING STAIR AT SHELF
1" = 1'-0" BACK REF: A1.38



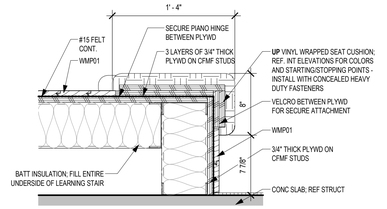
6 SD - LEARNING STAIR STEPS - LEVEL 2
1 1/2" = 1'-0" BACK REF: A1.39



5 SD - LEARNING STAIR @ STEPS
1 1/2" = 1'-0" BACK REF: A1.38



4 SD- LEARNING STAIR @ SHELF W/CUSHION
1 1/2" = 1'-0" BACK REF: A1.38



3 SD - LEARNING STAIR AT CUSHION
1 1/2" = 1'-0" BACK REF: A1.38

2 EP-S - LEARNING STAIR LEVEL 01
3/4" = 1'-0" BACK REF: A1.2C

1 SECTION - LEARNING STAIR 7
1/2" = 1'-0" BACK REF: A1.37

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Project:
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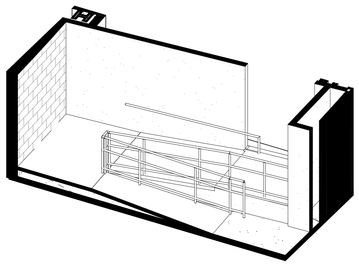
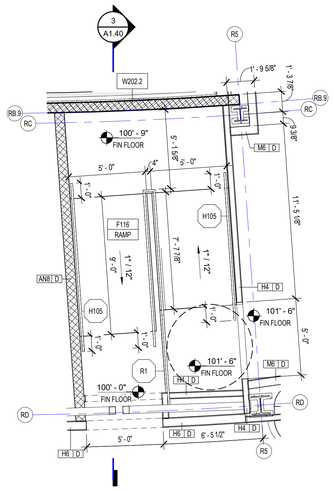


7 RAMP 3D VIEW



6 EP-S - AREA F RAMP LEVEL 01

1/4" = 1'-0" BACK REF: A1.1F

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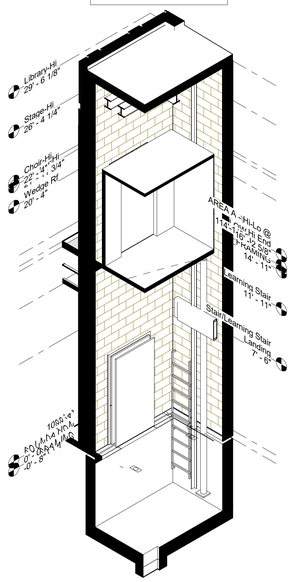
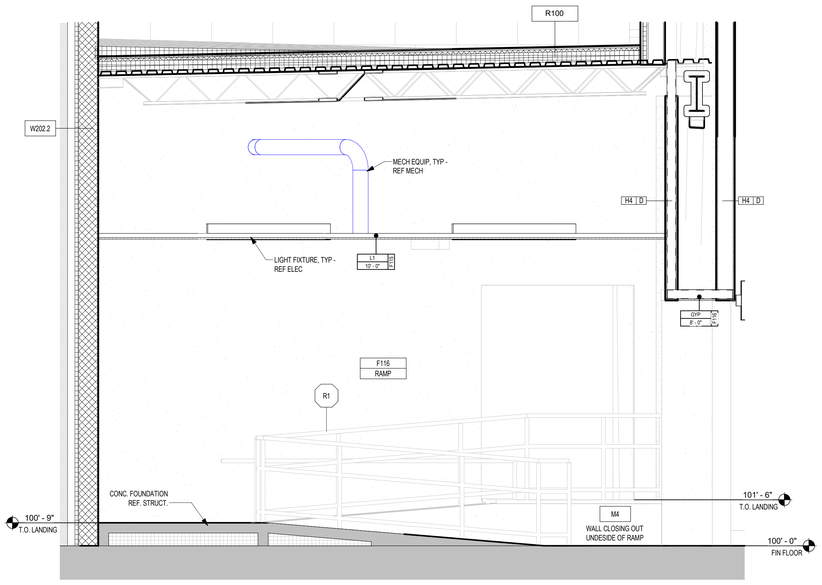


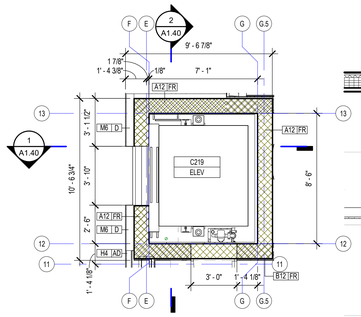
8 ELEVATOR 3D VIEW



3 RAMP SECTION

1/2" = 1'-0"

NOTE: CONTRACTOR TO COORDINATE CLEARANCES, LAYOUT, STRUCTURAL REQUIREMENTS, AND INFRASTRUCTURAL REQUIREMENTS WITH SELECTED ELEVATOR(S). DIMENSIONS AND OTHER INFORMATION WILL VARY AND DIFFER FROM EACH ELEVATOR PRODUCT / MODEL / MANUFACTURER AND MAY EVEN CHANGE WHEN USING THE BASIS-OF-DESIGN PRODUCT. DO NOT COMMENCE THIS WORK, RELATED TO FOUNDATION WORK, STEEL FABRICATION OR OTHER IMPACTED ACTIVITIES UNTIL SUBMITTALS AND SHOP DRAWINGS HAVE BEEN PRODUCED, COORDINATED WITH THE OTHER WORK, AND REVIEWED.



5 ENLARGED ELEVATOR PLAN - LEVEL 02 - AREA C

1/4" = 1'-0"

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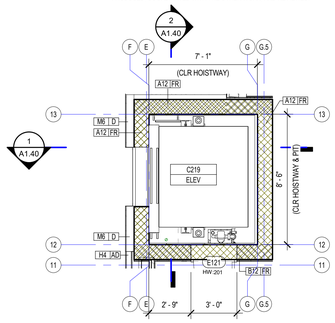

4 ENLARGED ELEVATOR PLAN - LEVEL 01 - AREA C

1/4" = 1'-0" BACK REF: A1.1C

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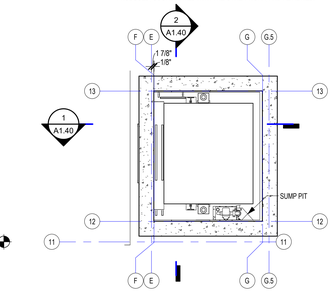

9 ENLARGED ELEVATOR PIT PLAN - AREA C

1/4" = 1'-0" BACK REF: A1.1C

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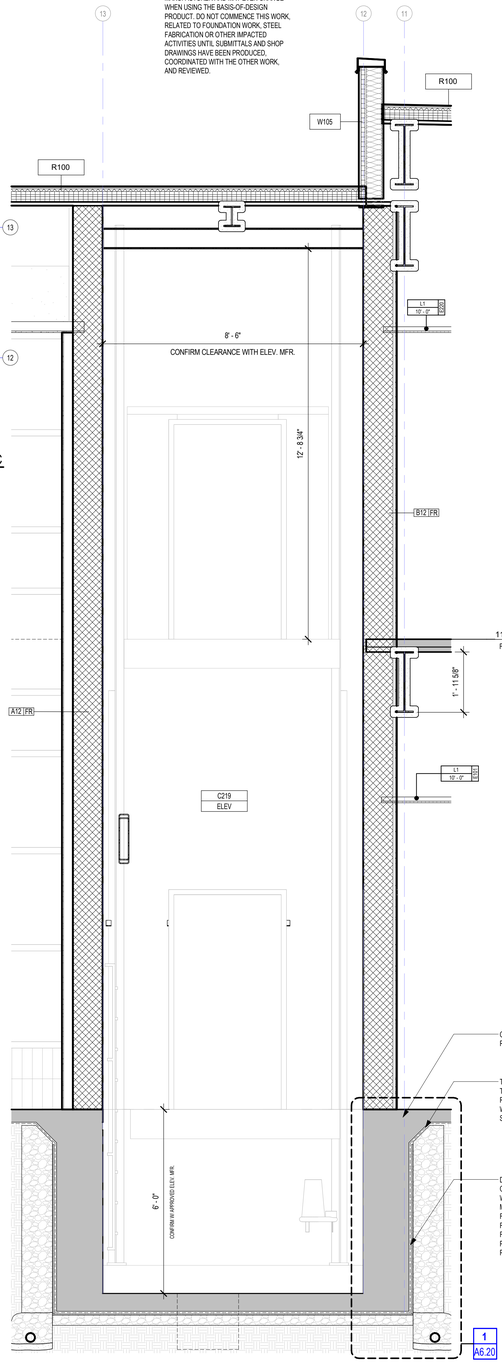
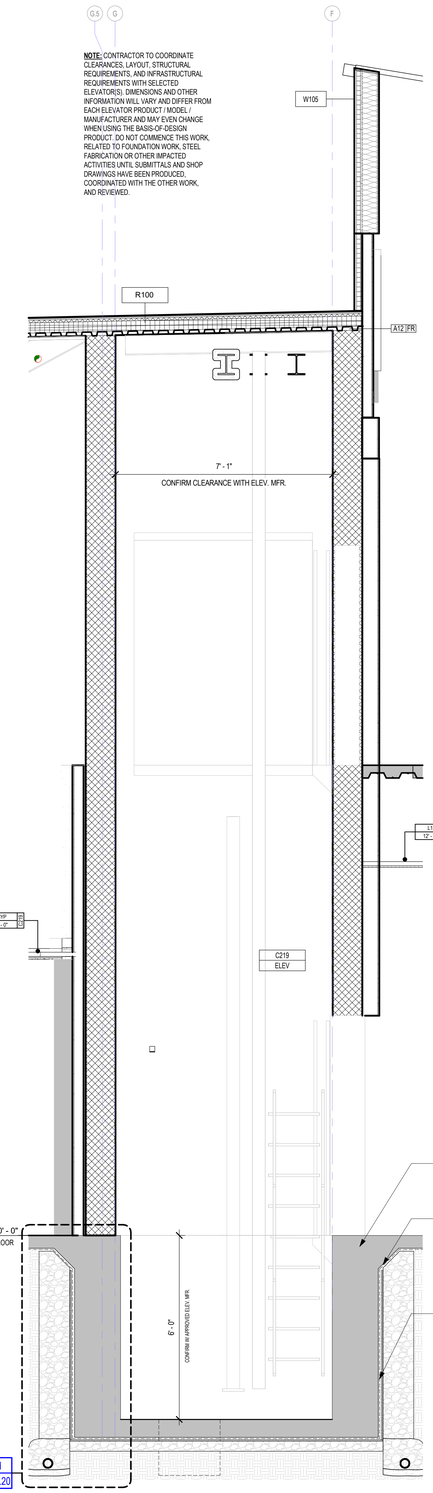


2 ELEVATOR SECTION 2

1/2" = 1'-0"

NOTE: CONTRACTOR TO COORDINATE CLEARANCES, LAYOUT, STRUCTURAL REQUIREMENTS, AND INFRASTRUCTURAL REQUIREMENTS WITH SELECTED ELEVATOR(S). DIMENSIONS AND OTHER INFORMATION WILL VARY AND DIFFER FROM EACH ELEVATOR PRODUCT / MODEL / MANUFACTURER AND MAY EVEN CHANGE WHEN USING THE BASIS-OF-DESIGN PRODUCT. DO NOT COMMENCE THIS WORK, RELATED TO FOUNDATION WORK, STEEL FABRICATION OR OTHER IMPACTED ACTIVITIES UNTIL SUBMITTALS AND SHOP DRAWINGS HAVE BEEN PRODUCED, COORDINATED WITH THE OTHER WORK, AND REVIEWED.



1 ELEVATOR SECTION 1

1/2" = 1'-0"

NOTE: CONTRACTOR TO COORDINATE CLEARANCES, LAYOUT, STRUCTURAL REQUIREMENTS, AND INFRASTRUCTURAL REQUIREMENTS WITH SELECTED ELEVATOR(S). DIMENSIONS AND OTHER INFORMATION WILL VARY AND DIFFER FROM EACH ELEVATOR PRODUCT / MODEL / MANUFACTURER AND MAY EVEN CHANGE WHEN USING THE BASIS-OF-DESIGN PRODUCT. DO NOT COMMENCE THIS WORK, RELATED TO FOUNDATION WORK, STEEL FABRICATION OR OTHER IMPACTED ACTIVITIES UNTIL SUBMITTALS AND SHOP DRAWINGS HAVE BEEN PRODUCED, COORDINATED WITH THE OTHER WORK, AND REVIEWED.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 [illegible]
STATE OF TEXAS
7/15/2026

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ENLARGED PLANS - RAMPS AND ELEVATORS

VOLUME 01

Job No. 00802-04-01	Sheet No. A1.40
Drawn By: CB,CI	
Date: 07.15.26	

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_ARCH.rvt
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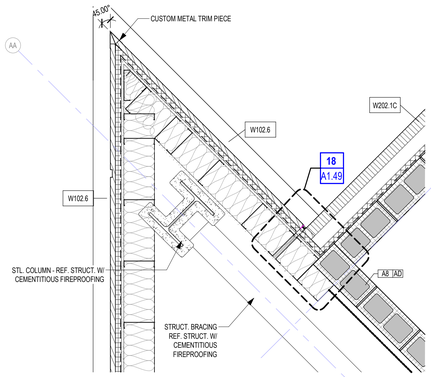

16 PLAN DETAIL
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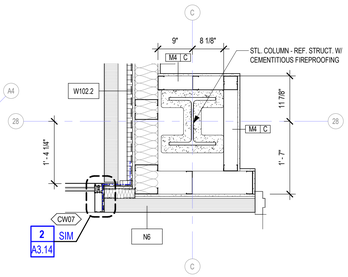

15 PLAN DETAIL
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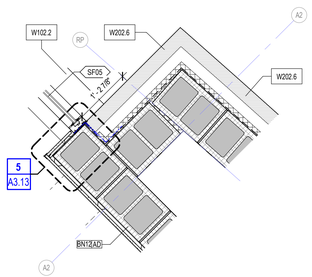

14 PLAN DETAIL
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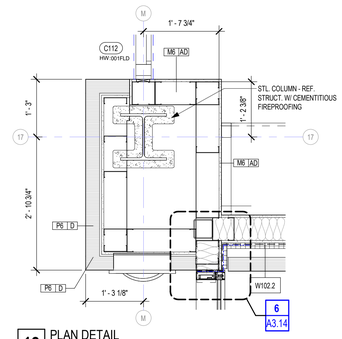

13 PLAN DETAIL
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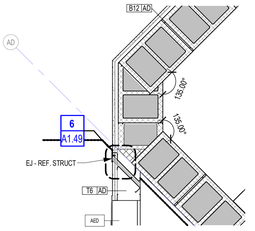

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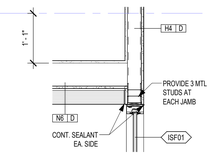

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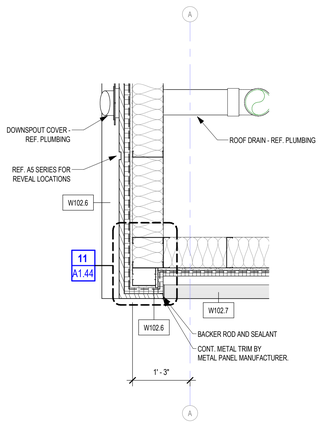

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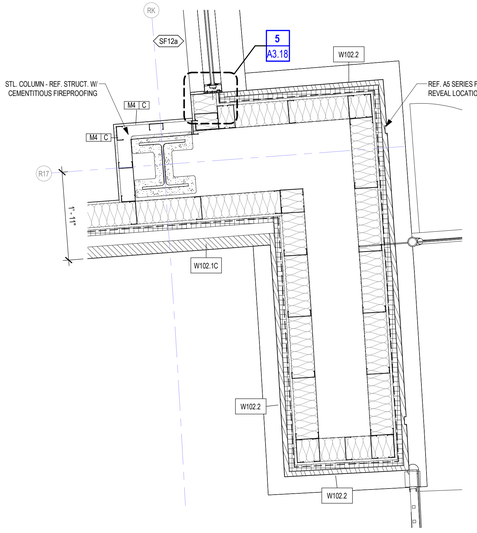

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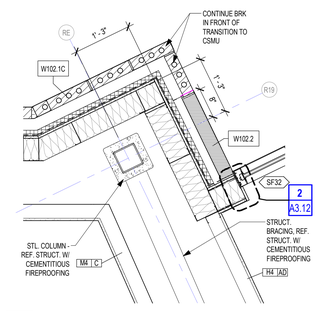

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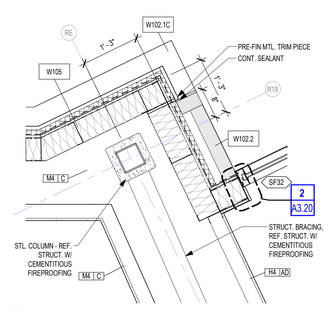

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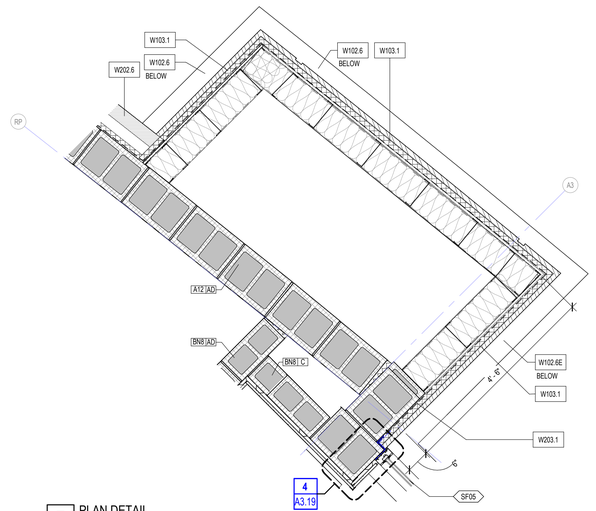

7 PLAN DETAIL
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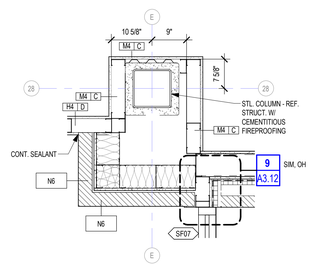

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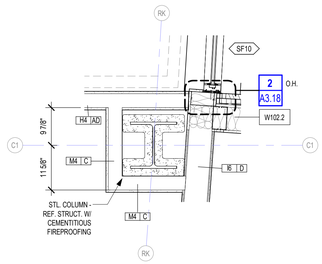

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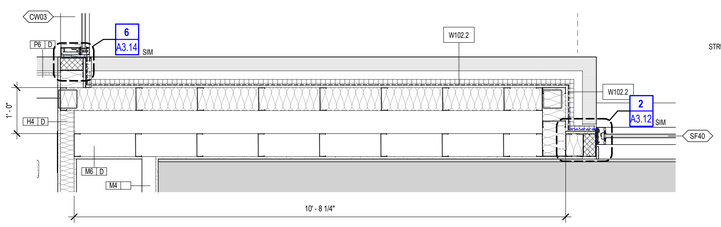

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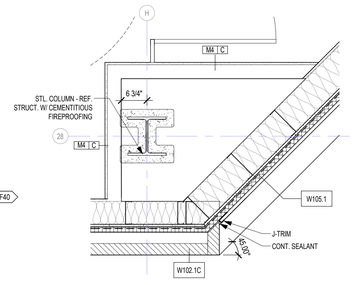

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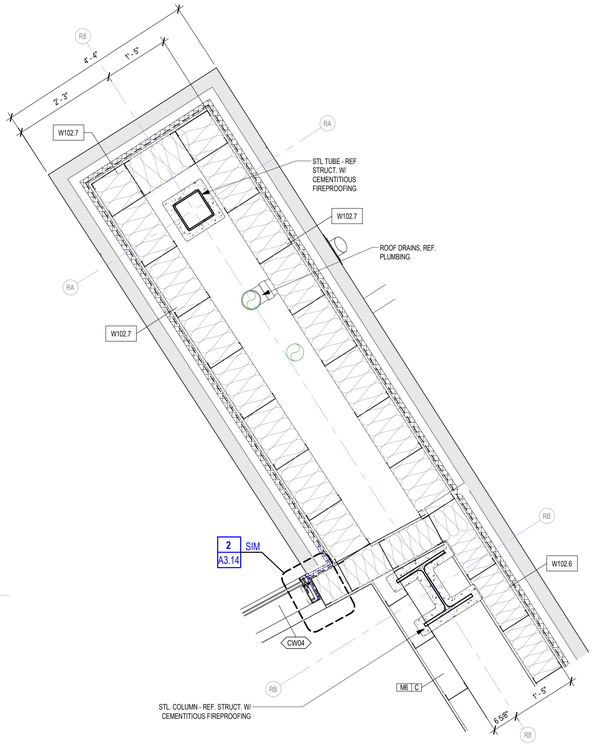

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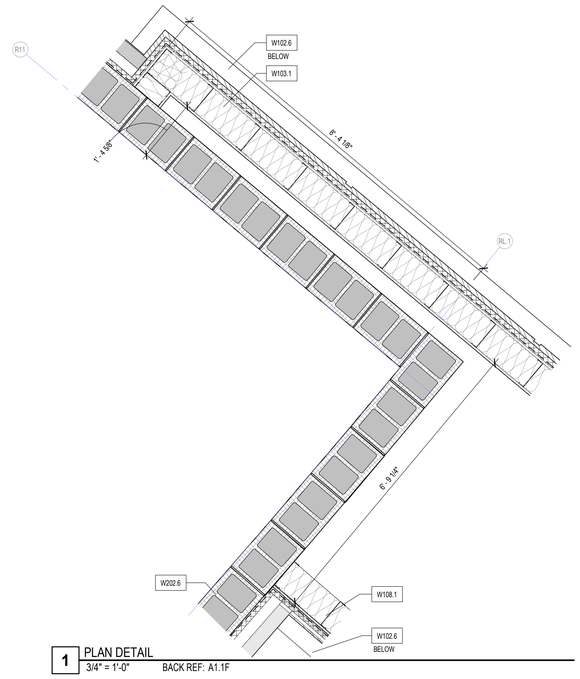

1 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1F

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
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STATE OF TEXAS
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PLAN DETAILS
VOLUME 01

Job No. 00802-04-01	Sheet No. A1.41
Drawn By: CB, CI, MF	
Date: 07.15.26	

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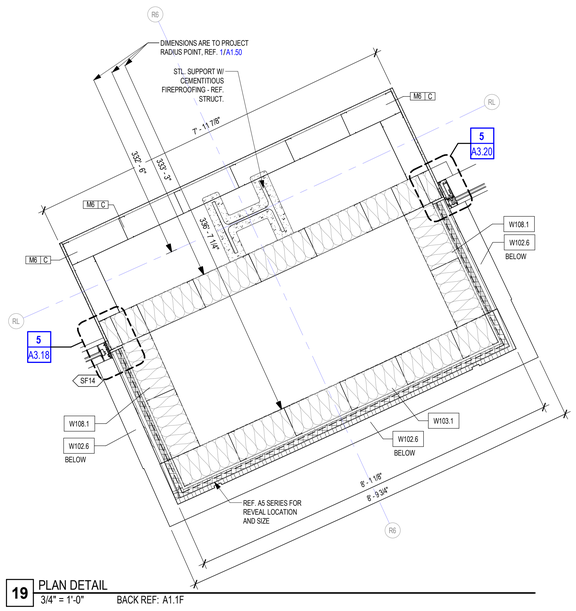

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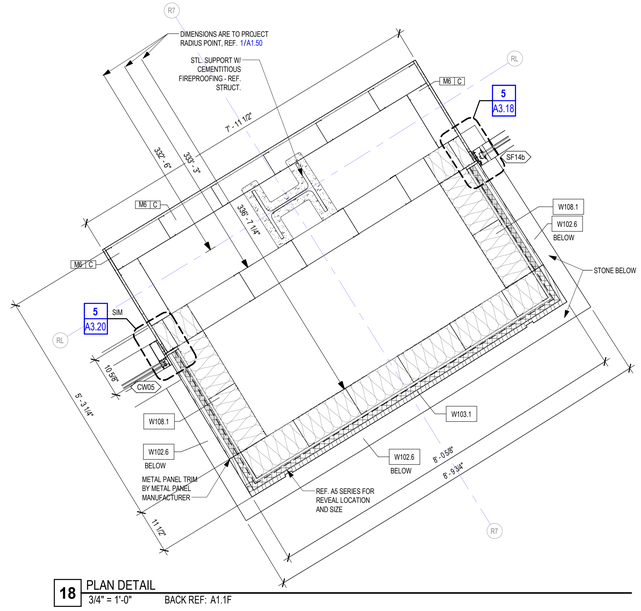

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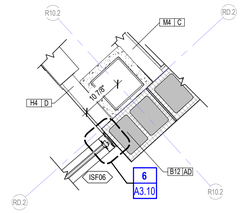

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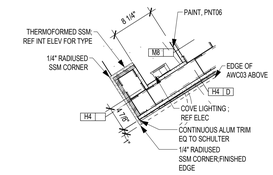

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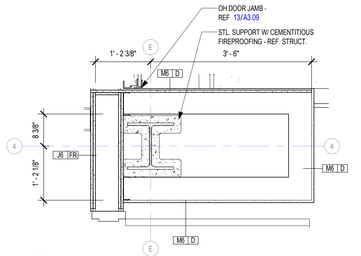
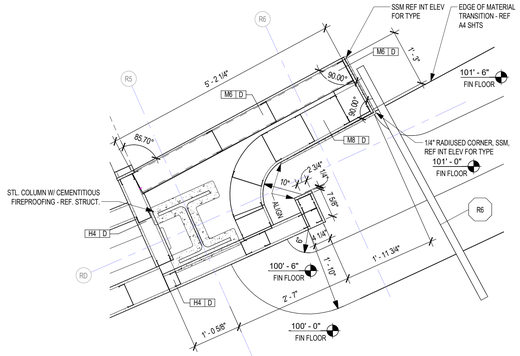


17 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.36



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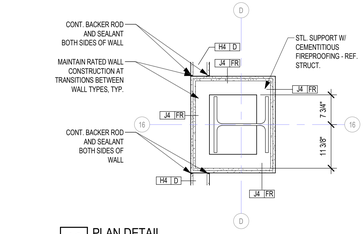

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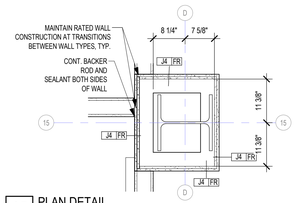

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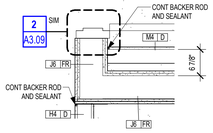

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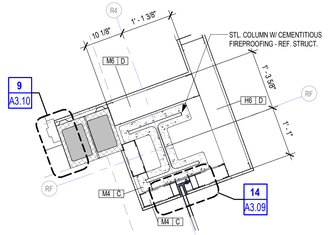

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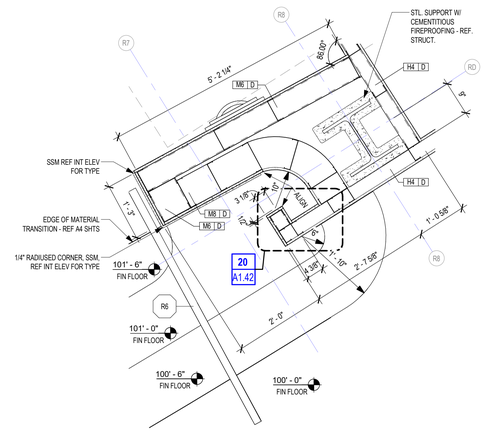

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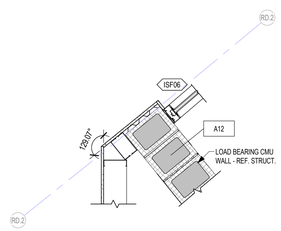

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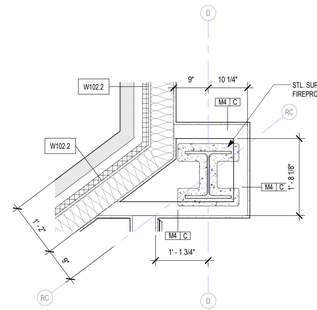

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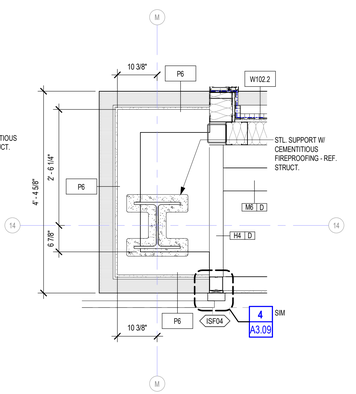

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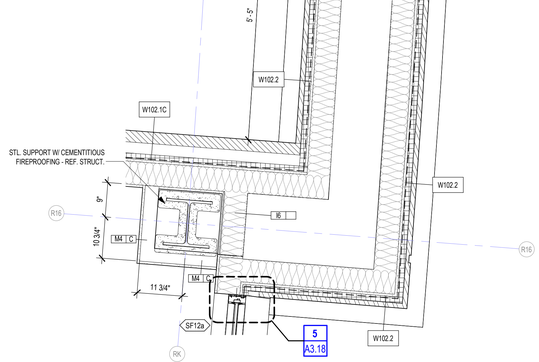

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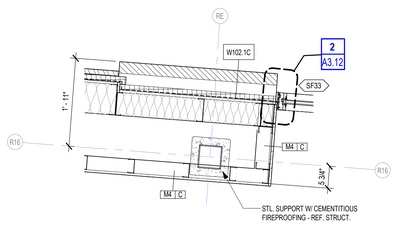

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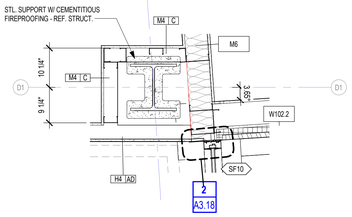

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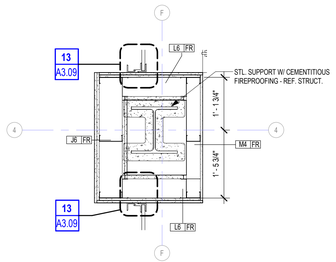

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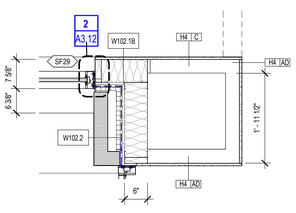

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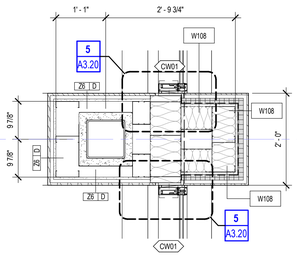

2 PLAN DETAIL
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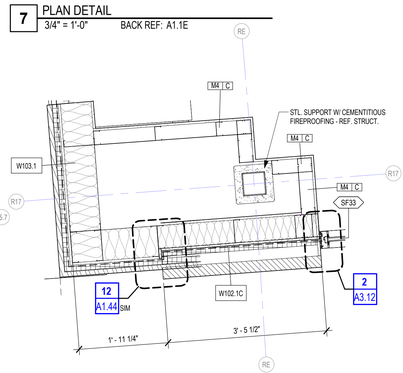

1 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1C

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

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PLAN DETAILS

VOLUME 01

Job No. 00802-04-01
Drawn By: CB, AC
Date: 07.15.26
Sheet No. A1.42

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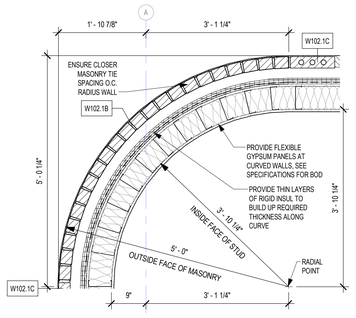

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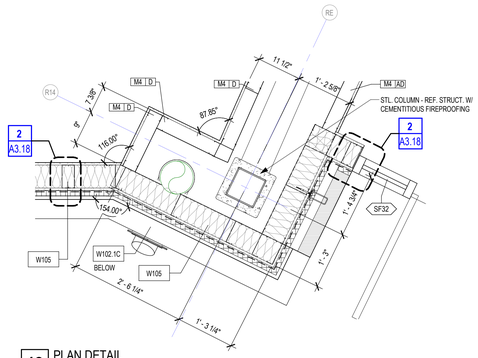

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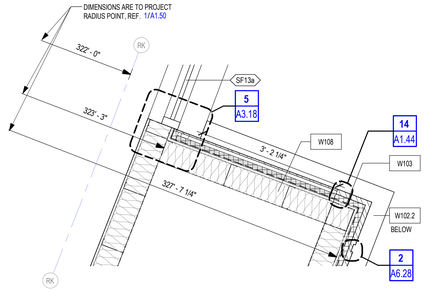

19 PLAN DETAIL
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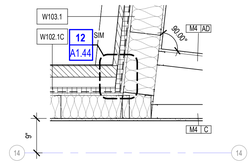
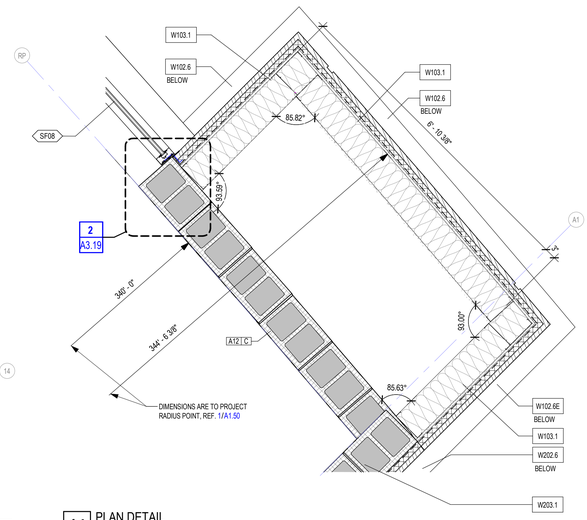


17 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1E



14 PLAN DETAIL
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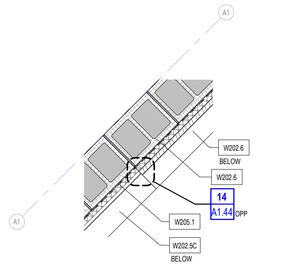

15 PLAN DETAIL
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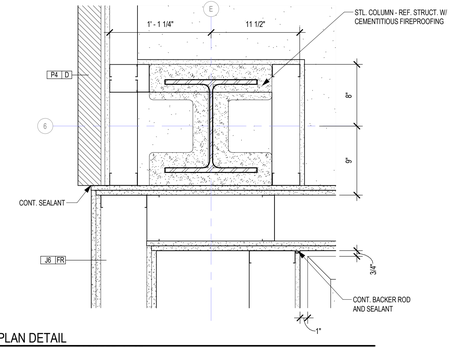
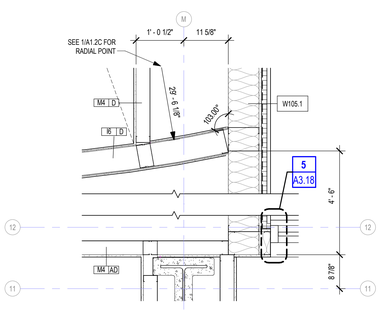
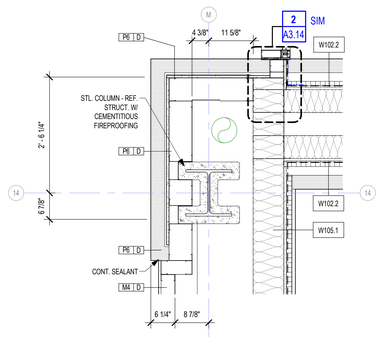


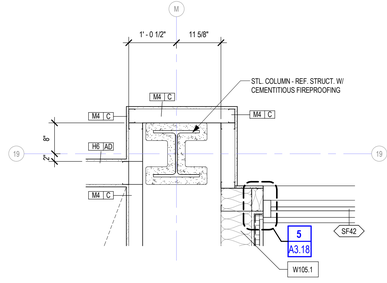
13 PLAN DETAIL
1 1/2" = 1'-0" BACK REF: A1.2E



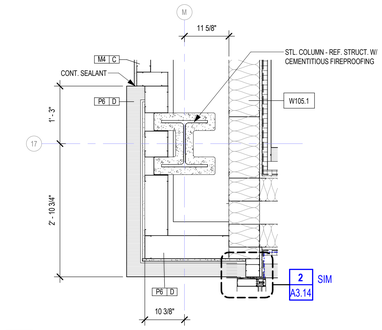
12 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



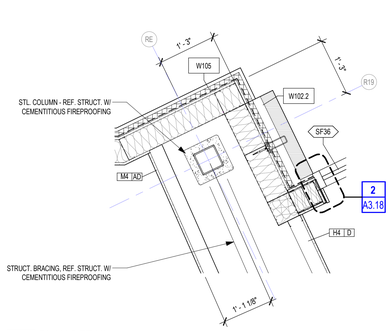
11 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



10 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



9 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



8 PLAN DETAIL
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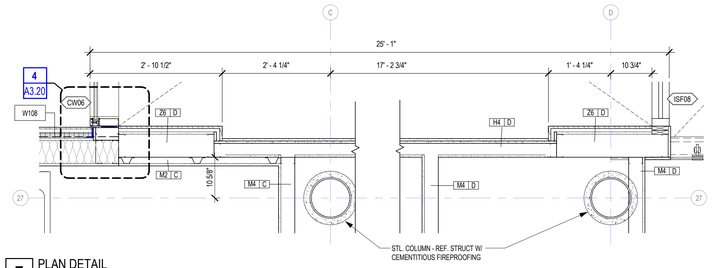

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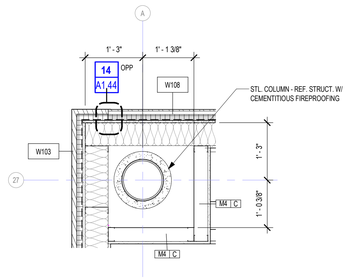
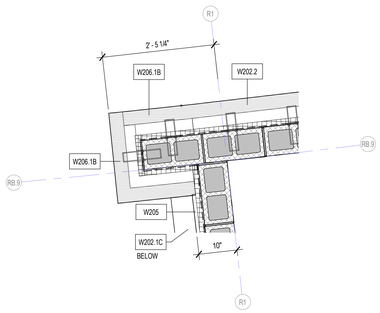


6 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2B



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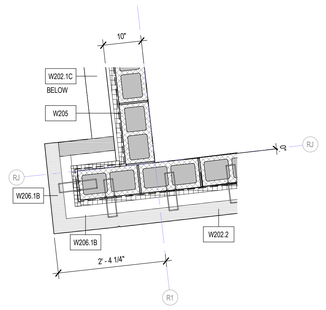
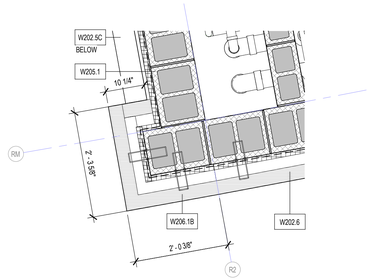
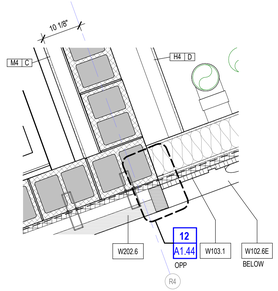
3/4" = 1'-0" BACK REF: A1.1F



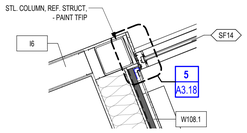
4 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1F



3 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1F



2 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1F



1 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1F

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 [illegible]
STATE OF TEXAS

7/15/2026

Huckabee
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PLAN DETAILS

VOLUME 01

Job No. 0/2602-04-01	Sheet No. A1.43
Drawn By: CB, CI, MF	
Date: 07.15.26	

7/15/2026 4:18:12 PM
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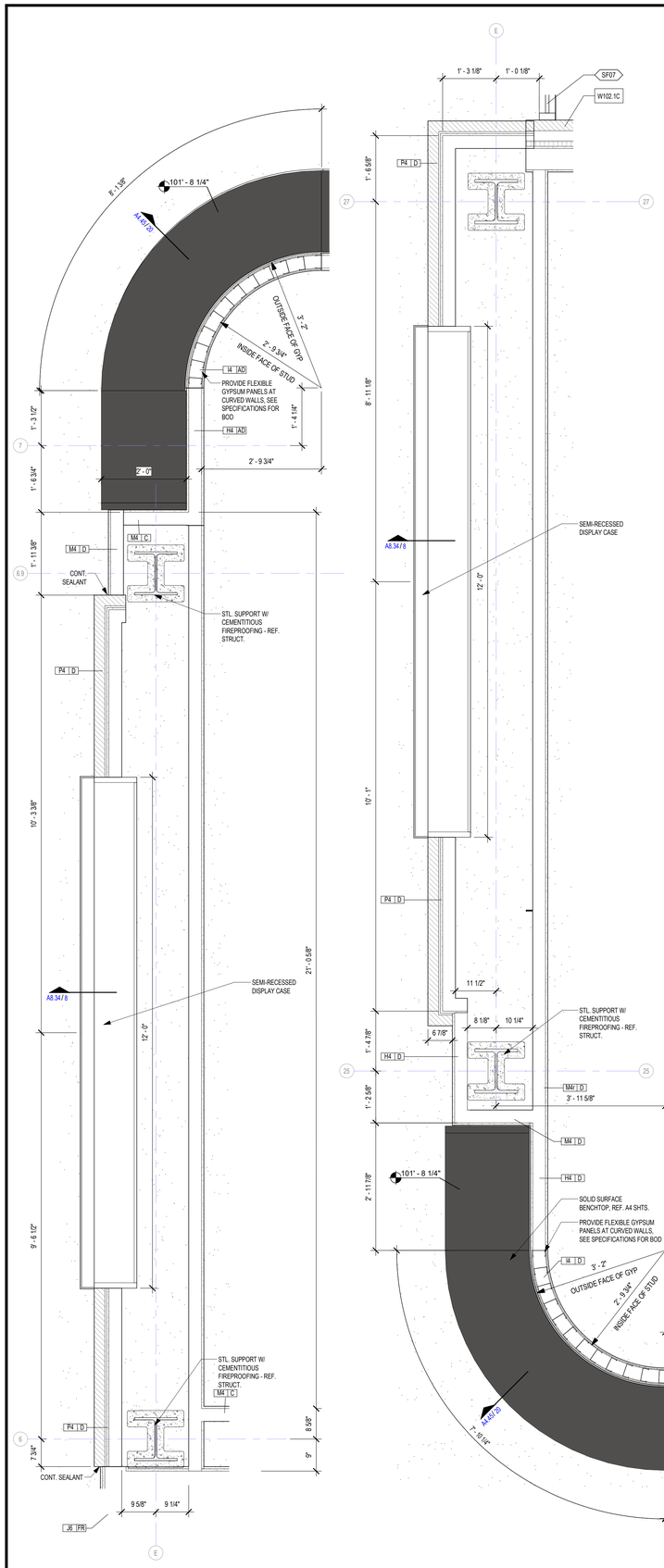
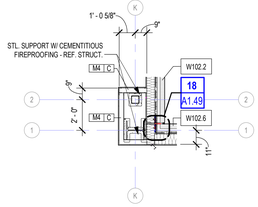


5 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1D

4 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.1C



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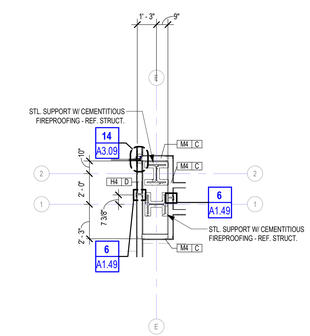

8 PLAN DETAIL
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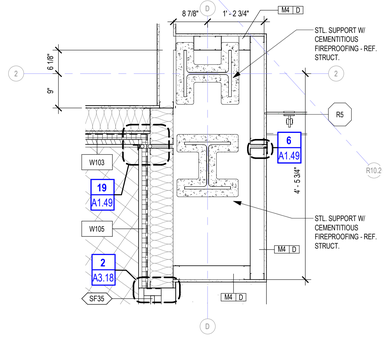
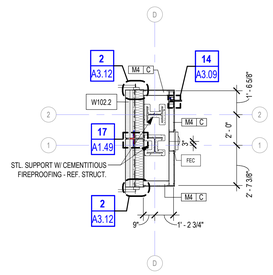
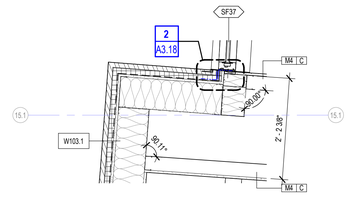


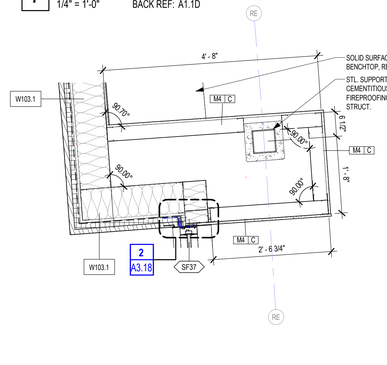
3 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2D



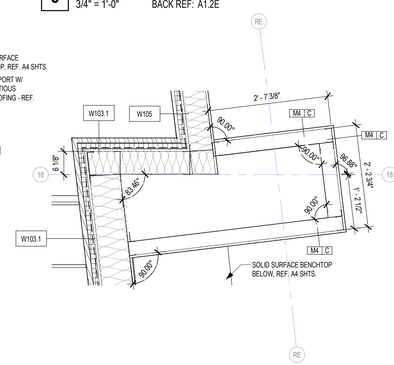
7 PLAN DETAIL
1/4" = 1'-0" BACK REF: A1.1D



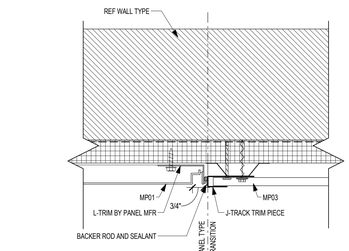
6 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2E



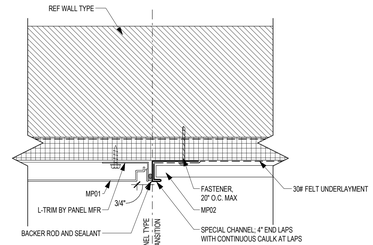
2 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



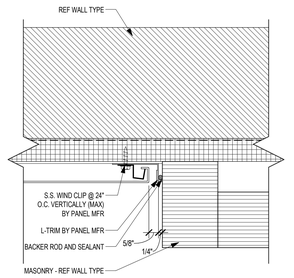
1 PLAN DETAIL
3/4" = 1'-0" BACK REF: A1.2C



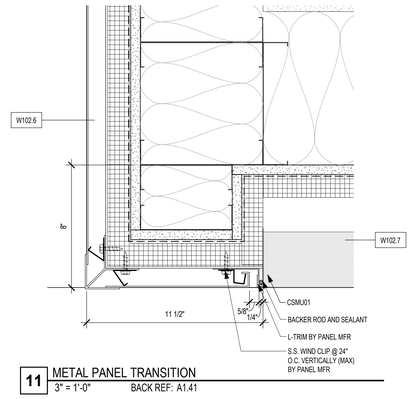
14 HORIZONTAL METAL PANEL TYPE TRANSITION
3" = 1'-0"



13 HORIZONTAL METAL PANEL TYPE TRANSITION
3" = 1'-0"



12 METAL PANEL TO MASONRY TRANSITION
3" = 1'-0"



11 METAL PANEL TRANSITION
3" = 1'-0" BACK REF: A1.41

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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PLAN DETAILS

VOLUME 01

Job No. 00802-04-01	Sheet No. A1.44
Drawn By: CB, CI, MF	
Date: 07.15.26	

7/15/2026 4:16:19 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ARCH.rvt

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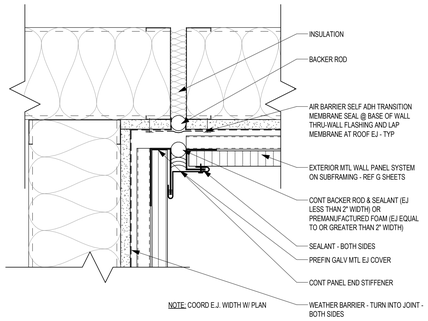
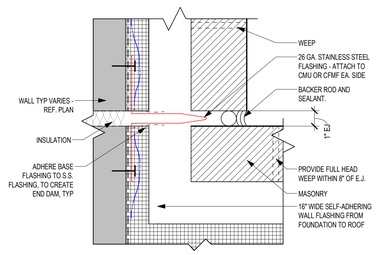
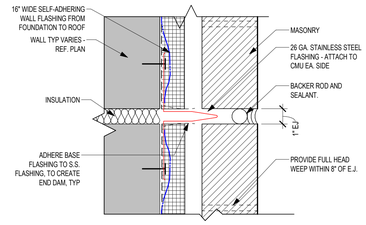


19 WALL TO WALL BLDG EXPANSION JOINT @ MTL. WALL PANEL CORNER
3" = 1'-0"



18 WALL TO WALL BUILDING E. J. @ CORNER
3" = 1'-0"



17 WALL TO WALL BUILDING EXPANSION JOINT
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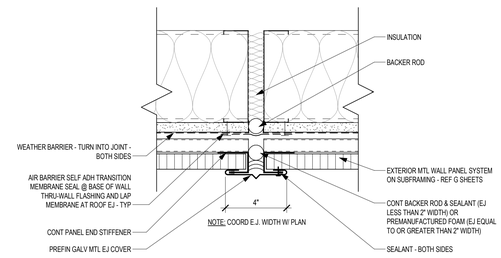
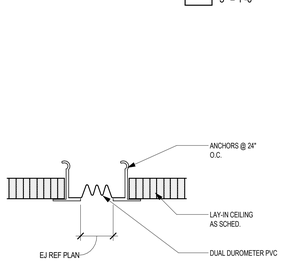
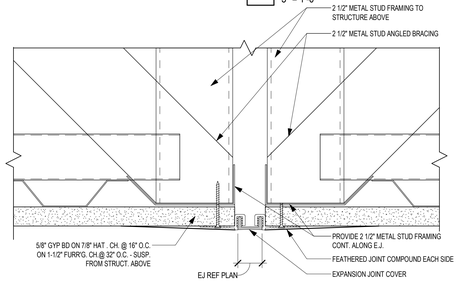


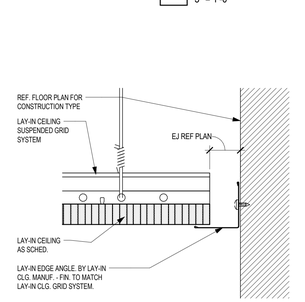
16 WALL TO WALL BLDG EXPANSION JOINT @ MTL. WALL PANEL
3" = 1'-0"



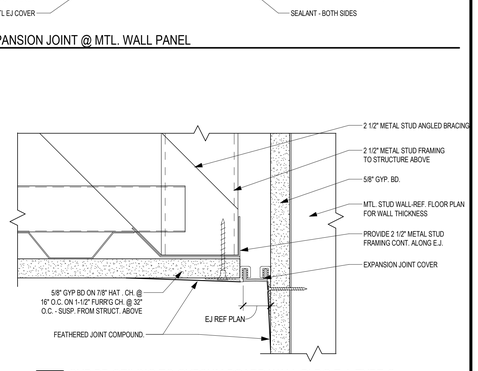
15 ACOUSTICAL CEILING TO CEILING BLDG E.J.
6" = 1'-0"



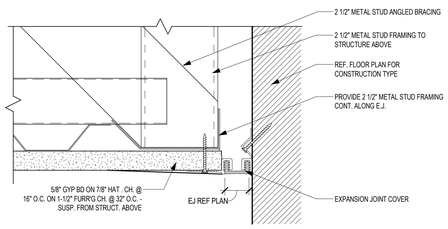
14 GYP BD CEILING TO CEILING BLDG E.J.
6" = 1'-0"



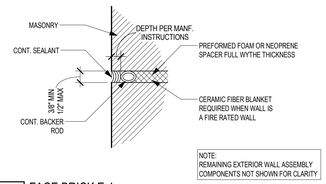
13 ACOUSTICAL CEILING TO WALL BLDG E.J.
6" = 1'-0"



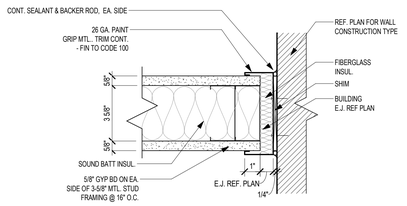
12 GYP BD CEILING TO GYPSUM BOARD WALL BLDG E.J. TYPE G
6" = 1'-0"



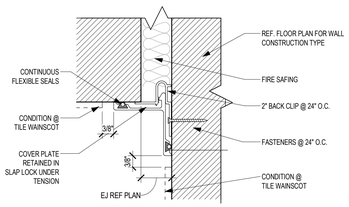
11 GYP BD CEILING TO MASONRY WALL BLDG E.J.
6" = 1'-0"



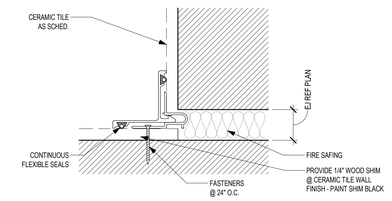
10 FACE BRICK E.J.
6" = 1'-0"



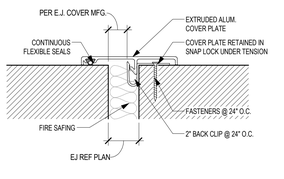
9 PLAN DETAIL @ BLDG E.J.
3" = 1'-0"



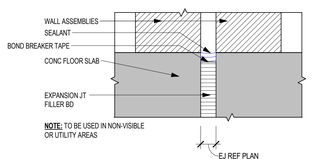
8 BLDG E.J. @ WALL TO WALL CORNER (INTERIOR)
6" = 1'-0"



7 INSIDE CORNER BLDG E.J. @ FULL HEIGHT CERAMIC TILE (INTERIOR)
6" = 1'-0"



6 WALL TO WALL BLDG E.J. COVER (INTERIOR)
6" = 1'-0"



5 FLOOR E.J. - HIDDEN ON GRADE
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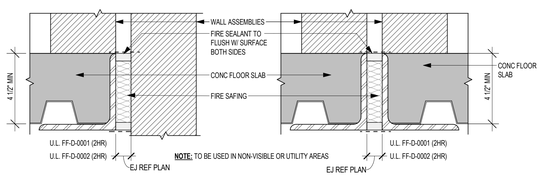

4 FLOOR E.J. RATED - HIDDEN LOCATIONS
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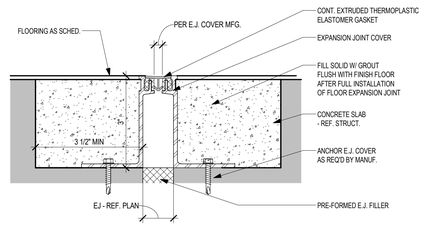
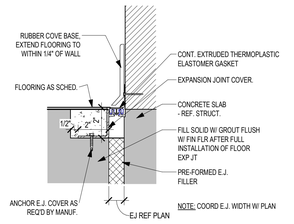


2 FLOOR TO FLOOR BLDG E.J. COVER
6" = 1'-0"



1 FLOOR TO WALL BLDG E.J. DETAIL
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 [illegible]
STATE OF TEXAS
7/15/2026

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EXPANSION JOINT DETAILS

VOLUME 01

Job No. 00802-04-01
Sheet No. A1.49
Drawn By: CB
Date: 07.15.26

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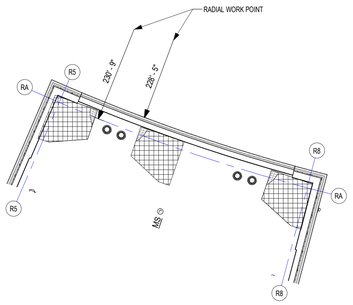
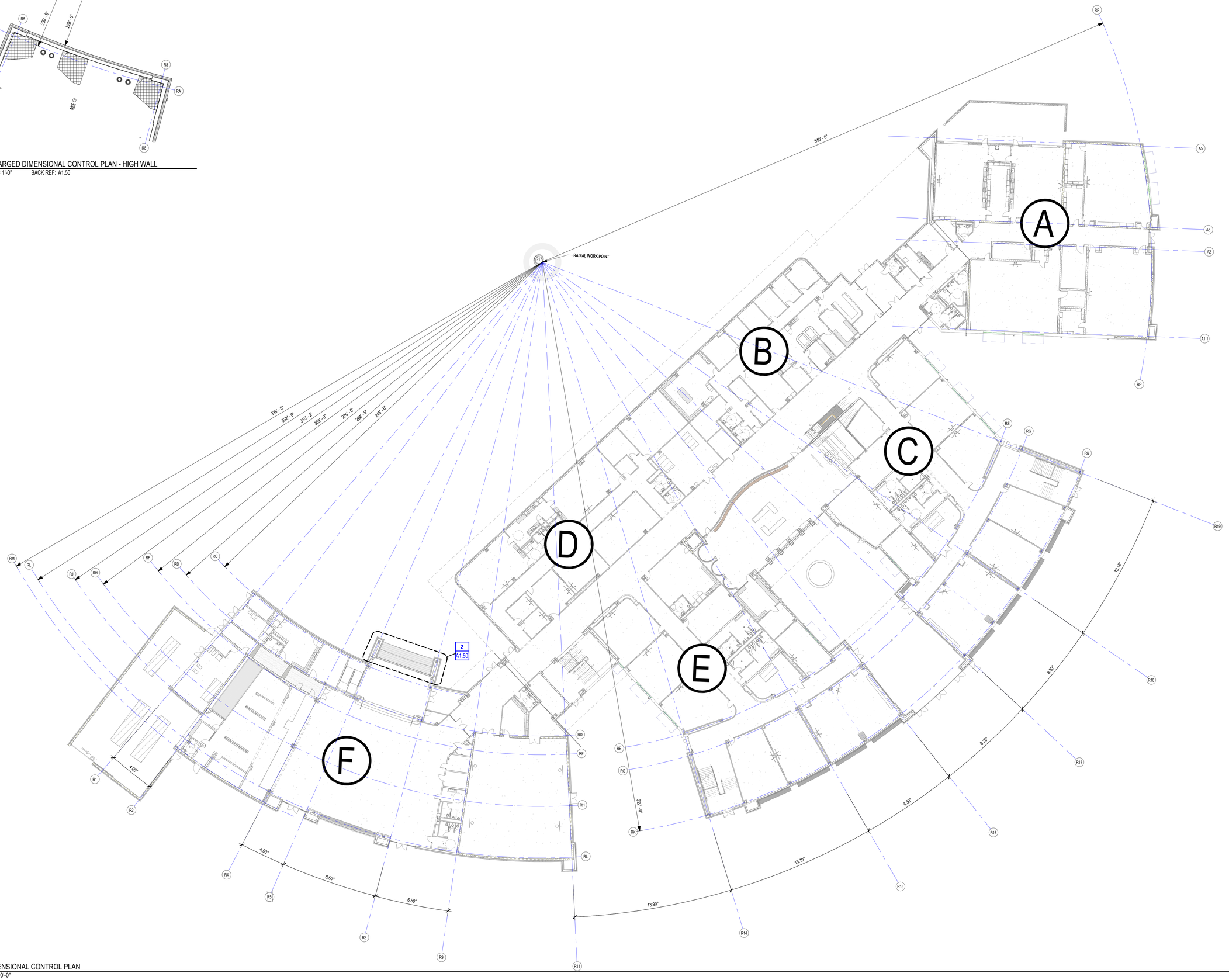


2 ENLARGED DIMENSIONAL CONTROL PLAN - HIGH WALL
1/8" = 1'-0" BACK REF: A1.50



1 DIMENSIONAL CONTROL PLAN
1" = 20'-0"

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 TEXAS
STATE OF TEXAS
7/15/2026

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DIMENSIONAL CONTROL PLAN

VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: CB	A1.50
Date: 07.15.26	

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1 MASTER REFLECTED CEILING PLAN - LEVEL 01
1" = 20'-0"

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE, LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL.
5. TOILET PARTITIONS SHALL BE CEILING-MOUNTED. COORDINATE ALL CEILING-MOUNTED MECHANICAL, LIGHTING FIRE SPRINKLER, AND TECHNOLOGY DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH PARTITIONS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' - 0" — FIN. FLOOR

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)
L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)
L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)
L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
C.J. **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
PROJECTION SCREENS - REF. A4 SHEETS
P.S.
P.S.
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
FIRE RATED CEILING ASSEMBLY
WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 1654
STATE OF TEXAS
7/15/2026

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MASTER REFLECTED CEILING PLAN - LEVEL 01

VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: MA	A2.01
Date: 07.15.26	

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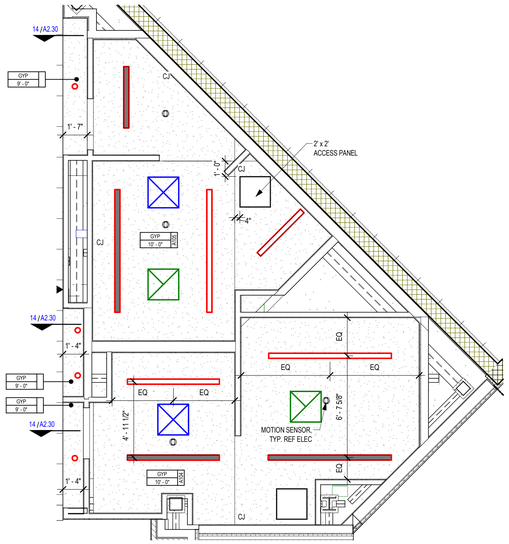

2 ENLARGED REFLECTED CEILING PLAN - AREA A
1/4" = 1'-0"



1 REFLECTED CEILING PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
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   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL
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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -3" — FLOOR FINISH

CEILING

- **ACB** - ACOUSTICAL CEILING BAFFLE
- **ES** - EXPOSED DECK AND STRUCTURE
- **ESF** - EXPOSED DECK AND STRUCTURE (FINISHED)
- **GYP** - 5/8" GYPSUM BOARD
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- **L11** - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
- **LCS** - LINEAR CEILING SYSTEM
- **MS** - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

- **LAY-IN CEILING**
- **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
- **METAL SOFFIT PANELS**
- **PYRAMIDAL CEILING DIFFUSER**
- **LIGHT FIXTURES** - REF. ELECTRICAL
- **EMERGENCY LIGHT FIXTURE** - REF. ELECTRICAL
- **PROJECTION SCREENS** - REF. A4 SHEETS
- **HVAC GRILLE, DIFFUSER** - REF. MECHANICAL DRAWINGS.
- **SOUND BATT ABOVE CEILING**

  WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
- **FIRE RATED CEILING ASSEMBLY**

  WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

PLAN

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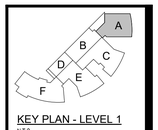
Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.



7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA A

VOLUME 01

Job No. 003802-04-01	Sheet No. A2.1A
Drawn By: MA	
Date: 07.15.26	

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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE / CEILING HEIGHT — CX / 9' -3" — ROOM NUMBER

CEILING

- **ACB** - ACOUSTICAL CEILING BAFFLE
- **ES** - EXPOSED DECK AND STRUCTURE
- **ESF** - EXPOSED DECK AND STRUCTURE (FINISHED)
- **GYP** - 5/8" GYPSUM BOARD
- **L1** - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
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- **LCS** - LINEAR CEILING SYSTEM
- **MS** - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

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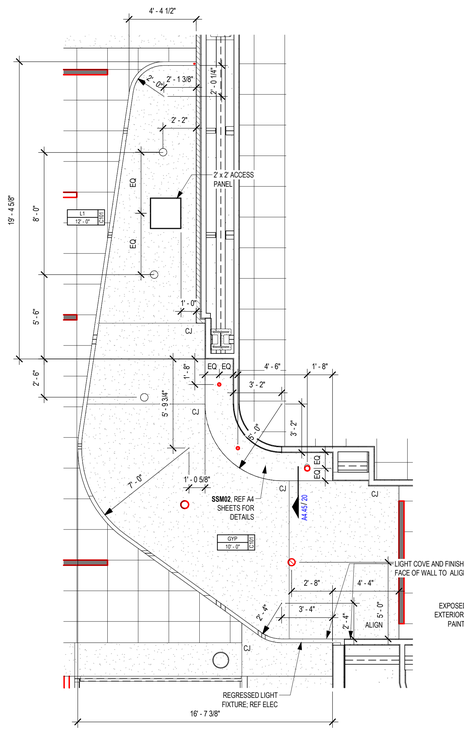
CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

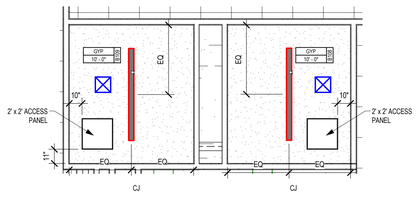
CEILING FINISH LEGEND

- **LAY-IN CEILING**
- **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
- **METAL SOFFIT PANELS**
- **PYRAMIDAL CEILING DIFFUSER**
- **LIGHT FIXTURES** - REF. ELECTRICAL
- **EMERGENCY LIGHT FIXTURE** - REF. ELECTRICAL
- **PROJECTION SCREENS** - REF. A4 SHEETS
- **HVAC GRILLE, DIFFUSER** - REF. MECHANICAL DRAWINGS.
- **SOUND BATT ABOVE CEILING**
  WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
- **FIRE RATED CEILING ASSEMBLY**
  WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

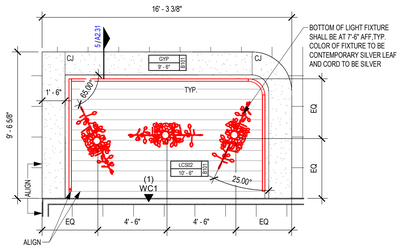
REFLECTED CEILING LEGEND



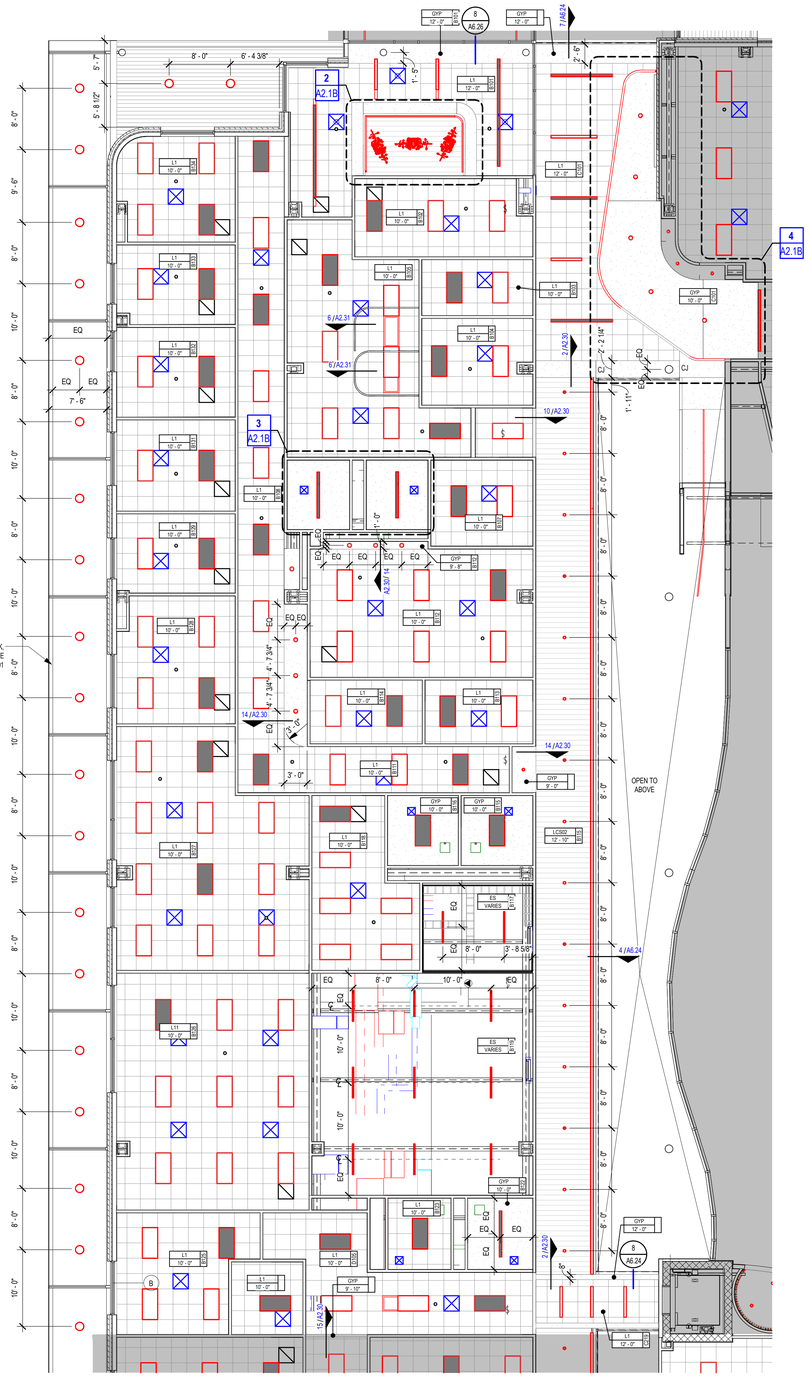
4 ENLARGED REFLECTED CEILING PLAN - FURRDOWN AT BENCH
1/4" = 1'-0"



3 ENLARGED REFLECTED CEILING PLAN - TYP SINGLE RESTROOMS
1/4" = 1'-0"



2 ENLARGED REFLECTED CEILING PLAN AT RECEPTION
1/4" = 1'-0"



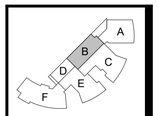
1 REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 1
N.T.S.





7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA B

VOLUME 01

Job No.	Sheet No.
2026/02-04-01	A2.1B
Drawn By: MA	
Date: 07.15.26	

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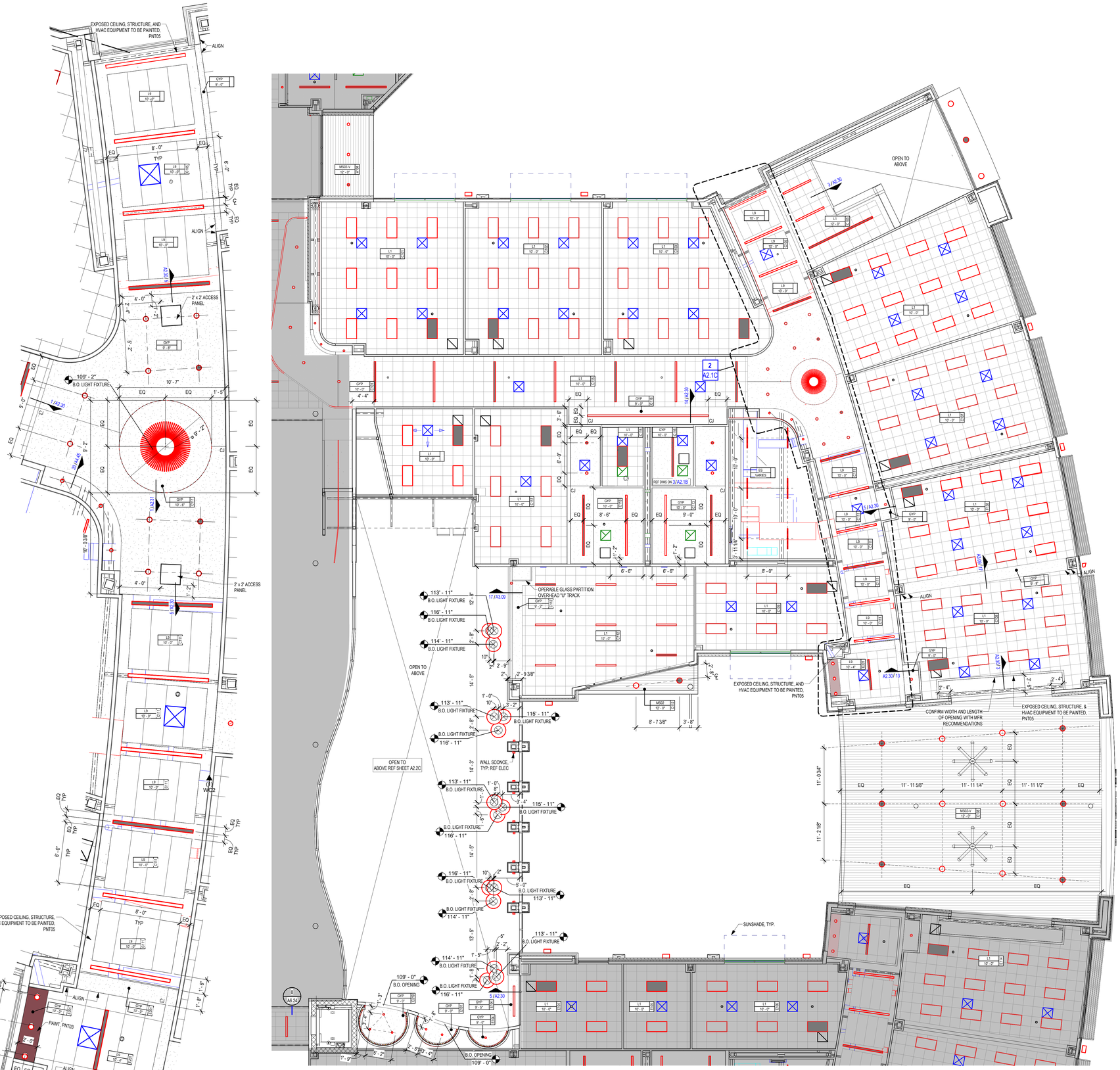

2 ENLARGED REFLECTED CEILING PLAN - CLASSRM CORRIDOR INTERSECTIONS
1/4" = 1'-0"

1 REFLECTED CEILING PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -3" — AREA

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
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LCS - LINEAR CEILING SYSTEM
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CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
PROJECTION SCREENS - REF. A4 SHEETS
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
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REFLECTED CEILING LEGEND

KEY PLAN - LEVEL 1
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

CAITLIN MUNCH — REGISTERED ARCHITECT — STATE OF TEXAS — 29 534
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA C
VOLUME 01

Job No.	Sheet No.
03802-04-01	A2.1C
Drawn By: MA	
Date: 07.15.26	

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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -3" — 101

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)
L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)
L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)
L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

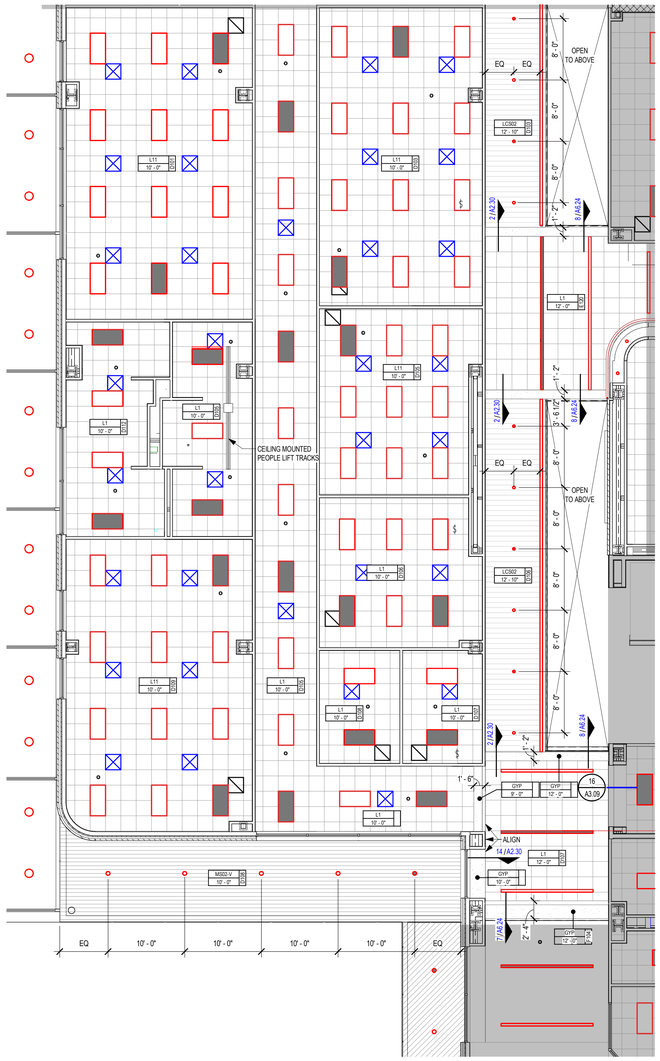
IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

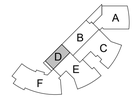
CEILING FINISH LEGEND

LAY-IN CEILING
GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
PROJECTION SCREENS - REF. A4 SHEETS
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
FIRE RATED CEILING ASSEMBLY
WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND



1 REFLECTED CEILING PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"



KEY PLAN - LEVEL 1
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA D

VOLUME 01

Job No.	Sheet No.
00802-04-01	A2.1D
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Date: 07.15.26	

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1 REFLECTED CEILING PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

KEY PLAN - LEVEL 1
N.T.S.

PLAN

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE. LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL
5. TOILET PARTITIONS SHALL BE CEILING-MOUNTED. COORDINATE ALL CEILING-MOUNTED MECHANICAL, LIGHTING FIRE SPRINKLER, AND TECHNOLOGY DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH PARTITIONS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE / CEILING HEIGHT — CX / 9' -0" — ROOM NUMBER

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
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L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)
L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
C.J. **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
P.S. **PROJECTION SCREENS** - REF. A4 SHEETS
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
FIRE RATED CEILING ASSEMBLY
WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNICH — 29 — STATE OF TEXAS
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA E

VOLUME 01

Job No.	Sheet No.
00802-04-01	A2.1E
Drawn By: MA	
Date: 07.15.26	

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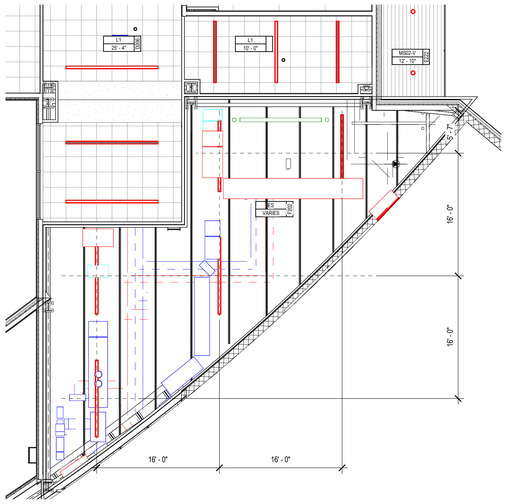
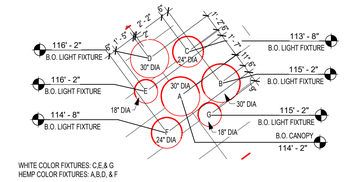


3 REFLECTED CEILING PLAN - LEVEL 02 - AREA F
1/8" = 1'-0"



2 ENLARGED REFLECTED CEILING PLAN - DINING PENDANTS
1/4" = 1'-0"



1 REFLECTED CEILING PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

KEY PLAN - LEVEL 1
N.T.S.

PLAN

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE. LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL
5. TOILET PARTITIONS SHALL BE CEILING-MOUNTED. COORDINATE ALL CEILING-MOUNTED MECHANICAL, LIGHTING FIRE SPRINKLER, AND TECHNOLOGY DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH PARTITIONS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -3"

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
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L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)
L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)
L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
PROJECTION SCREENS - REF. A4 SHEETS
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
FIRE RATED CEILING ASSEMBLY
WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29814
STATE OF TEXAS
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 01 - AREA F

VOLUME 01

Job No.	Sheet No.
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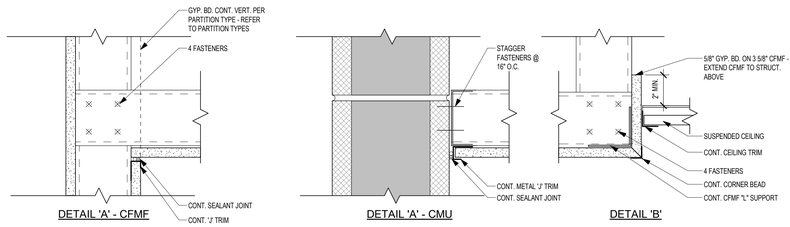
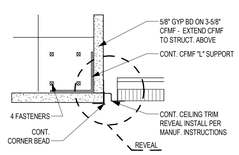
TYPICAL BULKHEAD DETAILS



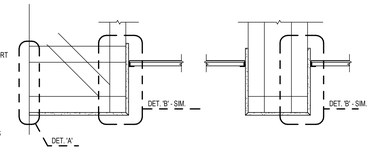
DETAIL 'A' - CFMF | DETAIL 'A' - CMU | DETAIL 'B'

NOTE: WHERE GYP CEILING AND LAY-IN CEILING TILES ARE SCHEDULED TO BE AT THE SAME HEIGHT A.F.F., A DRYWALL ACOUSTICAL REVEAL (ARMSTRONG SHADOW MODLING 7897 OR EQUAL) SHALL BE USED

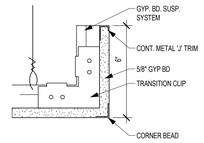




DETAIL 'C'

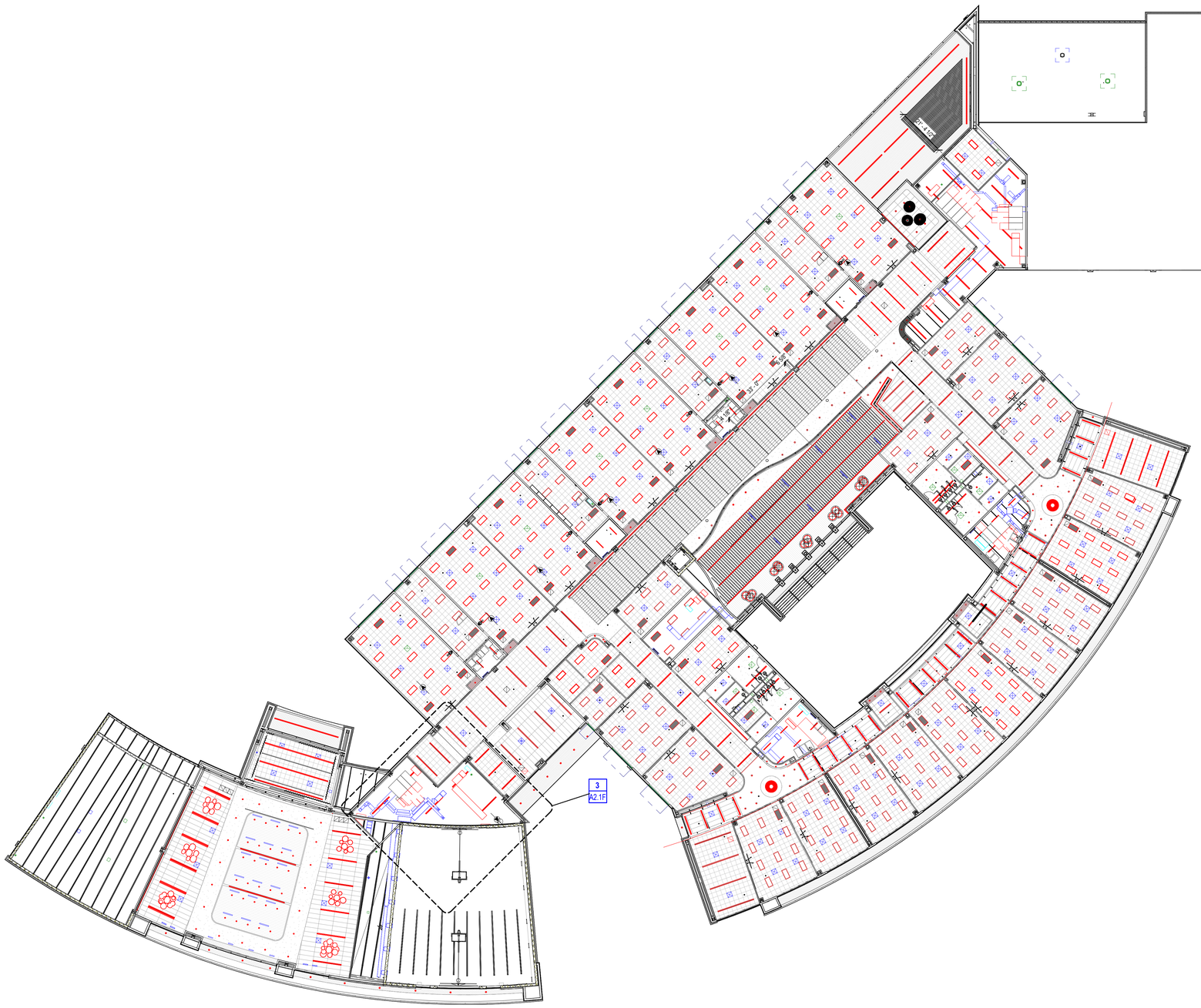


TYPICAL BULKHEAD PROFILES
N.T.S.



TYP SUSP CLOUD EDGE DETAIL
N.T.S.

GENERAL NOTES - ALL BULKHEADS, PLASTER AND GYP. CEILINGS
1. ALL BULKHEADS SHALL BE CONSTRUCTED OF 5/8" GYP. BD. ON 3-5/8" MTL. STUDS AT 16" O.C. U.NO.
2. FINISH ALL BULKHEADS TO CODE 115, U.N.O.
3. PROVIDE CONTROL JOINTS (C.J) IN BULKHEADS AT 15'-0" O.C. OR AS SHOWN ON PLAN AND AS SPEC.
4. ALL SECTION PROFILES SHOWN IN THIS SCHEDULE SHALL BE DETAILED AS SHOWN UNDER TYPICAL DETAILS.
5. PROVIDE BRACING IN ALL BULKHEADS AT 48" O.C.
6. PROVIDE CONTROL JOINTS (C.J) IN ALL PLASTER CLGS., SOFFITS AT MAX. 18'-0" OR AS SHOWN ON PLAN.
7. PROVIDE STOP CONT. WHERE PLASTER SOFFIT MEETS VERTICAL SURFACE AND CAULK CONT.



1 MASTER REFLECTED CEILING PLAN - LEVEL 02
1" = 20'-0"

PLAN

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE. LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL.
5. TOILET PARTITIONS SHALL BE CEILING-MOUNTED. COORDINATE ALL CEILING-MOUNTED MECHANICAL, LIGHTING FIRE SPRINKLER, AND TECHNOLOGY DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH PARTITIONS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CT (C.J.) — ROOM NUMBER
CEILING HEIGHT — 9' - 0" (AFF)

CEILING

ACB - ACOUSTICAL CEILING BAFFLE

ES - EXPOSED DECK AND STRUCTURE

ESF - EXPOSED DECK AND STRUCTURE (FINISHED)

GYP - 5/8" GYPSUM BOARD

L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)

L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)

L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)

L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)

L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)

L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)

LCS - LINEAR CEILING SYSTEM

MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

- **LAY-IN CEILING**
- **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
- **METAL SOFFIT PANELS**
- **PYRAMIDAL CEILING DIFFUSER**
- **LIGHT FIXTURES** - REF. ELECTRICAL
- **EMERGENCY LIGHT FIXTURE** - REF. ELECTRICAL
- **PROJECTION SCREENS** - REF. A4 SHEETS
- **HVAC GRILLE, DIFFUSER** - REF. MECHANICAL DRAWINGS.
- **SOUND BATT ABOVE CEILING**
  WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
- **FIRE RATED CEILING ASSEMBLY**
  WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS
7/15/2026

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MASTER REFLECTED CEILING PLAN - LEVEL 02

VOLUME 01

Job No.	Sheet No.
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Drawn By: MA	
Date: 07.15.26	

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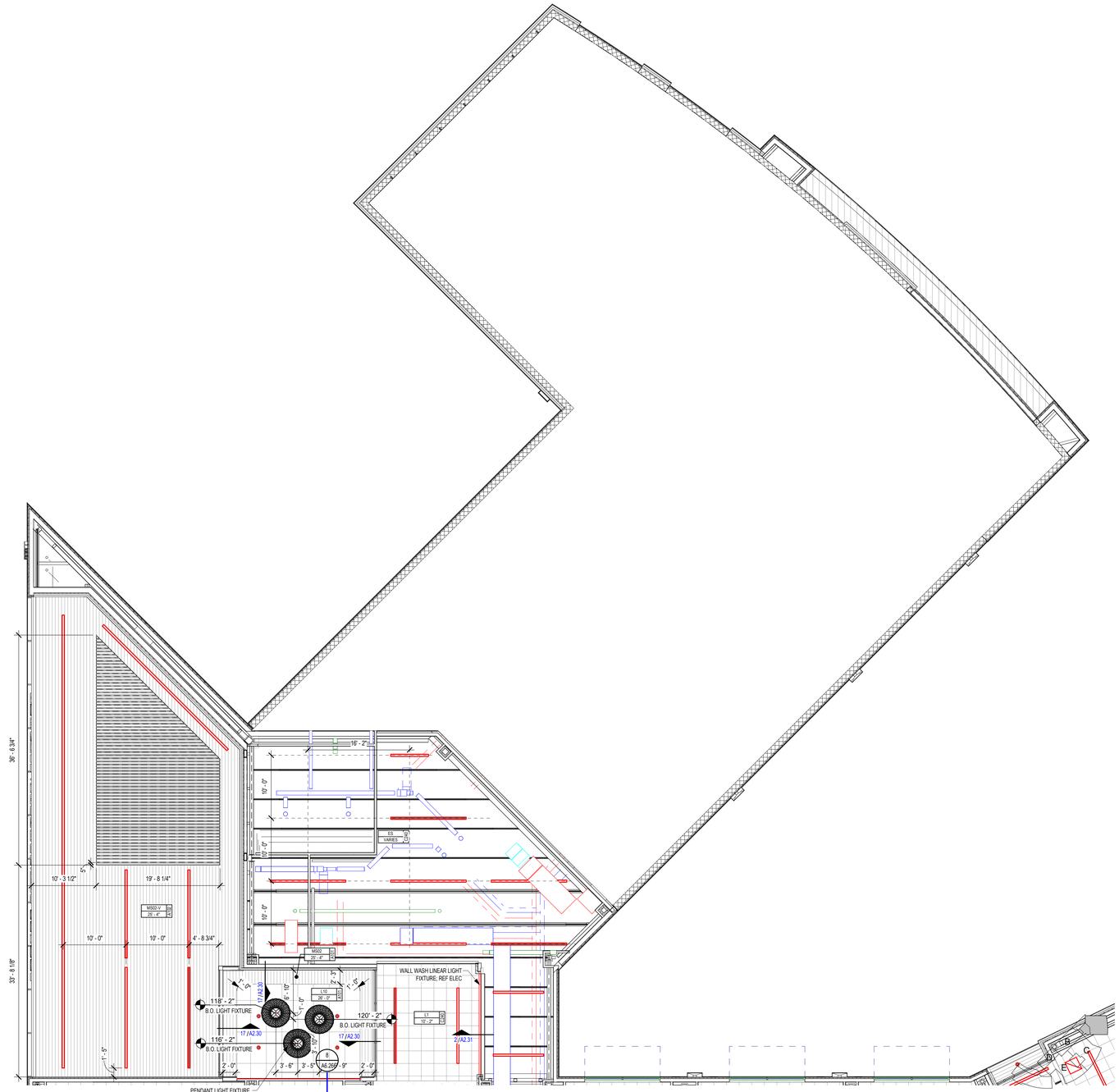

1 REFLECTED CEILING PLAN - LEVEL 02 - AREA A
1/8" = 1'-0"

KEY PLAN - LEVEL 2
N.T.S.

PLAN

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL.
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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -0" — 101

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)
L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)
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LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

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CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
PROJECTION SCREENS - REF. A4 SHEETS
P.S.
P.S.
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
FIRE RATED CEILING ASSEMBLY
WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



7/15/2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA A

VOLUME 01

Job No. 00802-04-01	Sheet No. A2.2A
Drawn By: MA	
Date: 07.15.26	

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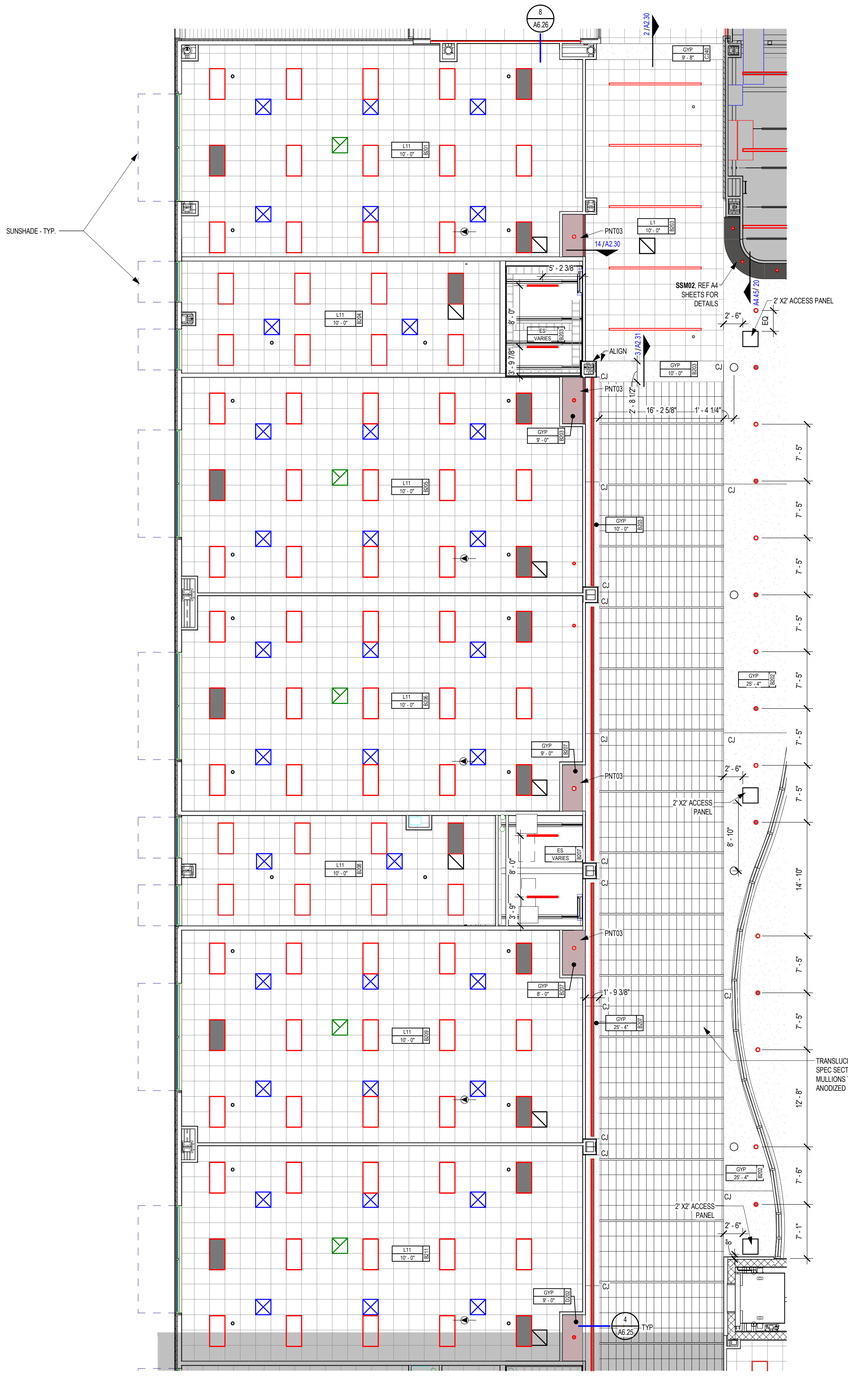
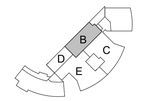


1 REFLECTED CEILING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"



KEY PLAN - LEVEL 2
N.T.S.

PLAN

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. DIMENSIONS ARE FROM FACE OF FINISH, U.N.O.
3. MOUNT LIGHT FIXTURES IN SPACES EXPOSED TO STRUCTURE AT 9' - 0" A.F.F. TO B.O. FIXTURE, U.N.O.
4. HARD-CEILING PLENUM ACCESS:
   A. MECHANICAL: PROVIDE 24" x 24" MIN. ACCESS PANELS. MATCH ACCESS PANEL PAINT TO ADJACENT CEILING.
   B. ELECTRICAL: MINIMIZE SIZE AND QUANTITY TO THE EXTENT FEASIBLE LOCATING CONCEALED BOXES ABOVE READILY-ACCESSIBLE CEILINGS WHERE PRACTICAL. INDICATE ACCESS PANEL LOCATIONS ON SHOP DRAWING SUBMITTAL
5. TOILET PARTITIONS SHALL BE CEILING-MOUNTED. COORDINATE ALL CEILING-MOUNTED MECHANICAL, LIGHTING FIRE SPRINKLER, AND TECHNOLOGY DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH PARTITIONS.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE — CX — ROOM NUMBER
CEILING HEIGHT — 9' -3" — 101

CEILING

ACB - ACOUSTICAL CEILING BAFFLE
ES - EXPOSED DECK AND STRUCTURE
ESF - EXPOSED DECK AND STRUCTURE (FINISHED)
GYP - 5/8" GYPSUM BOARD
L1 - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
L4 - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
L6 - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)
L9 - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (24" x 72" MINERAL FIBER)
L10 - TYPE X LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (30" x 60" MINERAL FIBER)
L11 - TYPE XI 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD, HIGH NRC)
LCS - LINEAR CEILING SYSTEM
MS - METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
C.J. **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL
P.S. **PROJECTION SCREENS** - REF. A4 SHEETS
HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.
SOUND BATT ABOVE CEILING
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FIRE RATED CEILING ASSEMBLY
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REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA B

VOLUME 01

Job No.	Sheet No.
00802-04-01	A2.2B
Drawn By: MA	
Date: 07.15.26	

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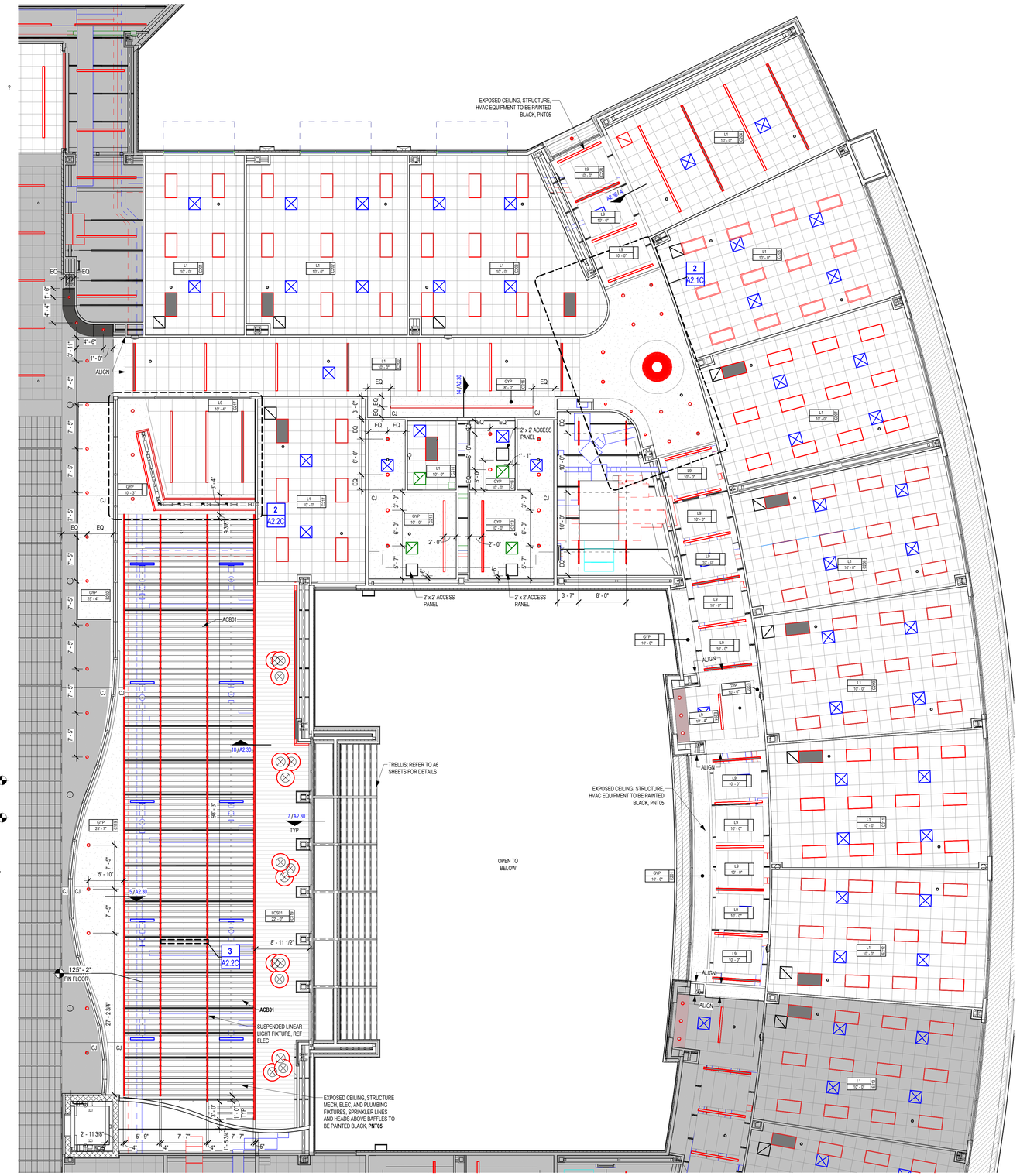
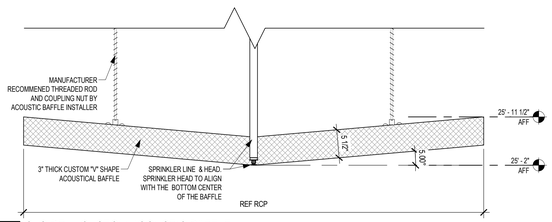
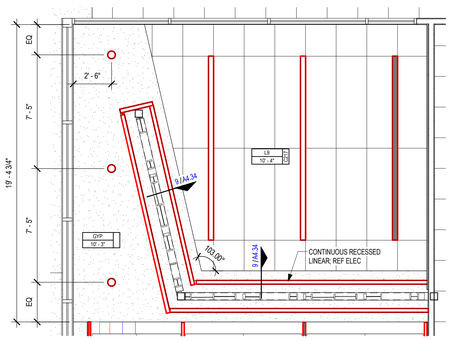


1 REFLECTED CEILING PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"



3 CLG DTL - CUSTOM ACOUSTIC BAFFLE
1" = 1'-0"



2 ENLARGED REFLECTED CEILING PLAN - LEVEL 2 LIBRARY
1/4" = 1'-0"

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL, ELECTRICAL AND AV/TECHNOLOGY PLANS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
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REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE / CEILING HEIGHT — CX / 9' -3" — ROOM NUMBER

CEILING

- **ACB -** ACOUSTICAL CEILING BAFFLE
- **ES -** EXPOSED DECK AND STRUCTURE
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- **L1 -** TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
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- **LCS -** LINEAR CEILING SYSTEM
- **MS -** METAL SOFFIT PANEL (EXTERIOR)

DEFAULT FINISHES

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CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

- **LAY-IN CEILING**
- **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
- **METAL SOFFIT PANELS**
- **PYRAMIDAL CEILING DIFFUSER**
- **LIGHT FIXTURES** - REF. ELECTRICAL
- **EMERGENCY LIGHT FIXTURE** - REF. ELECTRICAL
- P.S. **PROJECTION SCREENS** - REF. A4 SHEETS
- **HVAC GRILLE, DIFFUSER** - REF. MECHANICAL DRAWINGS.
- **SOUND BATT ABOVE CEILING**

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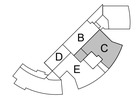
REFLECTED CEILING LEGEND



KEY PLAN - LEVEL 2
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS

7/15/2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA C

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Job No. 03802-04-01	Sheet No. A2.2C
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Date: 07.15.26	

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DEFAULT FINISHES

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CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING

GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED

METAL SOFFIT PANELS

PYRAMIDAL CEILING DIFFUSER

LIGHT FIXTURES - REF. ELECTRICAL

EMERGENCY LIGHT FIXTURE - REF. ELECTRICAL

PROJECTION SCREENS - REF. A4 SHEETS

HVAC GRILLE, DIFFUSER - REF. MECHANICAL DRAWINGS.

SOUND BATT ABOVE CEILING

WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.

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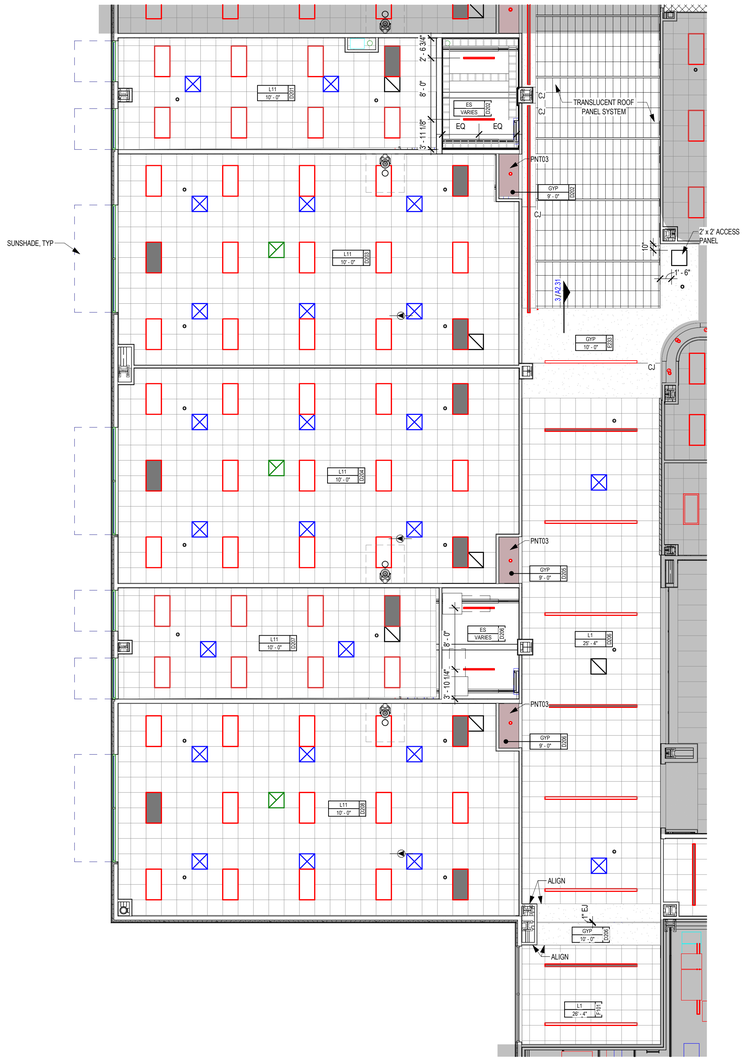
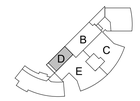
REFLECTED CEILING LEGEND



1 REFLECTED CEILING PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"



KEY PLAN - LEVEL 2
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CARY LIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA D

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Job No.	Sheet No.
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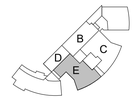
1 REFLECTED CEILING PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"



KEY PLAN - LEVEL 2
N.T.S.

PLAN

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CEILING - L1
CEILING HEIGHT - 10' - 0" A.F.F.

CEILING FINISH LEGEND

LAY-IN CEILING
GYPSUM BOARD CEILING WITH CONTROL JOINTS . FINISH AS INDICATED
METAL SOFFIT PANELS
PYRAMIDAL CEILING DIFFUSER
LIGHT FIXTURES - REF. ELECTRICAL
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REFLECTED CEILING LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
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REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]
7/15/2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA E

VOLUME 01

Job No.	Sheet No.
0/2602-04-01	A2.2E
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Date: 07.15.26	

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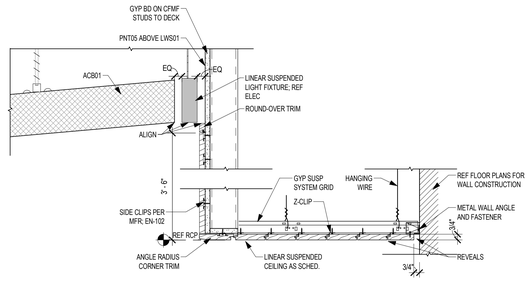
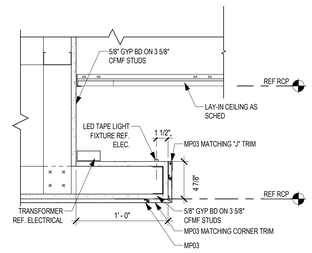
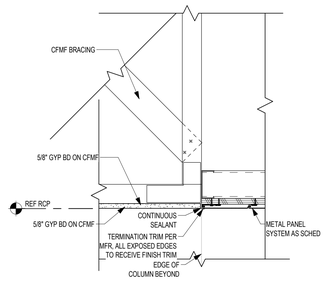


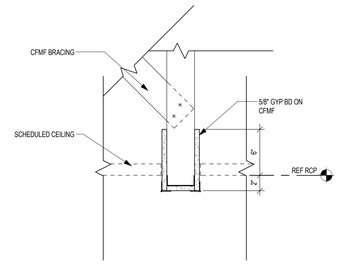
18 LINEAR SUSPENDED CEILING + LINEAR WALL SYSTEM
1 1/2" = 1'-0"



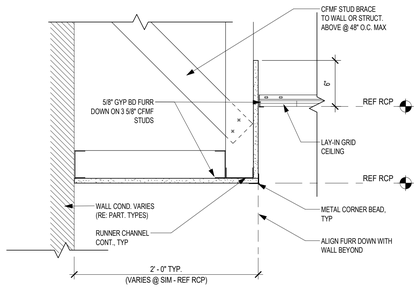
17 COVE BULKHEAD W/ LIGHTING
1 1/2" = 1'-0"



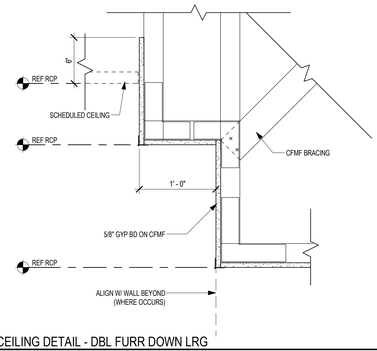
16 CEILING DETAIL - GYP FURR DOWN AT MTL CEILING
1 1/2" = 1'-0"



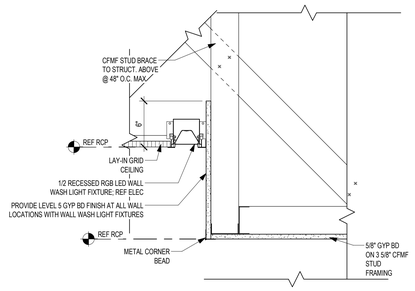
15 CEILING DETAIL - GYP DIVIDER
1 1/2" = 1'-0"



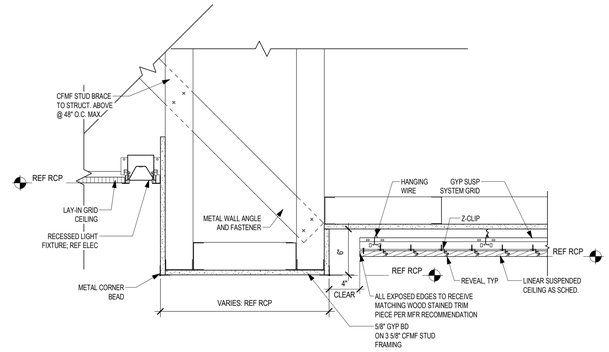
14 CEILING DETAIL - FURR DOWN TO LAY-IN
N.T.S.



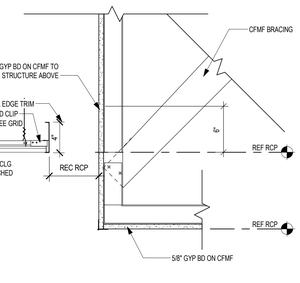
13 CEILING DETAIL - DBL FURR DOWN LRG
1 1/2" = 1'-0"



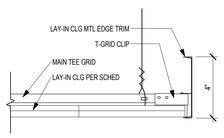
12 CEILING DETAIL - LAY-IN W/ PERIMETER LIGHT TO BULK HEAD TO GYP
1 1/2" = 1'-0"



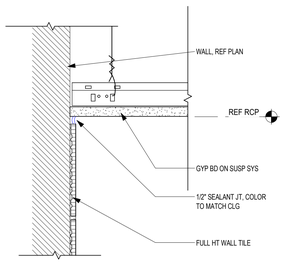
11 CEILING DETAIL - LAY-IN TO BULK HEAD TO GYP
N.T.S.



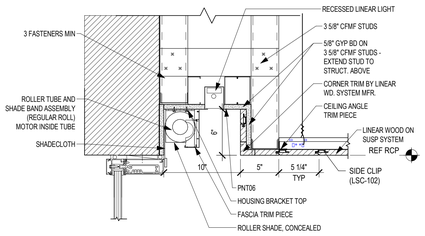
10 LINEAR SUSPENDED CEILING
1 1/2" = 1'-0"



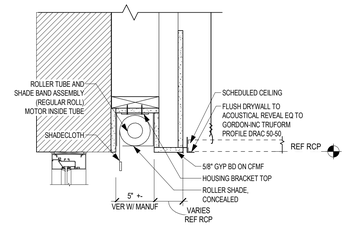
9 LAY-IN MTL EDGE DETAIL
3" = 1'-0"



8 CEILING DETAIL - WALL TILE TO GYP CLG
N.T.S.

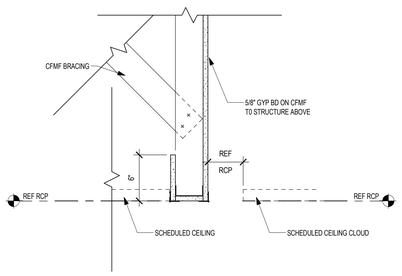


7 ROLLER SHADES AT SPECIALITY CEILING
N.T.S.

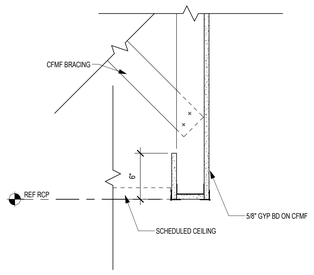


6 TYP. ROLLER SHADES DETAIL
1 1/2" = 1'-0"

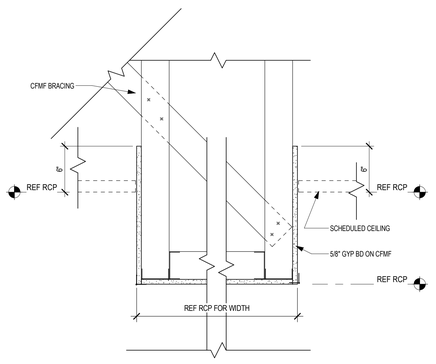
5 CEILING DETAIL - GYP FURR DOWN
1 1/2" = 1'-0"



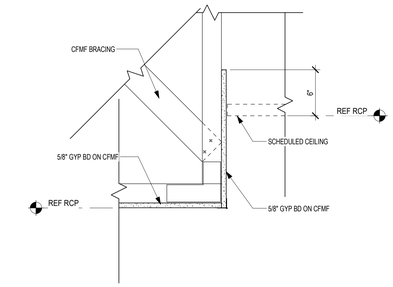
4 CEILING DETAIL - GYP HEADER AT CLG CLOUD
1 1/2" = 1'-0"



3 CEILING DETAIL - GYP HEADER
1 1/2" = 1'-0"



2 CEILING DETAIL - WIDE BULK HEAD
1 1/2" = 1'-0"



1 CEILING DETAIL - GYP FURR DOWN
1 1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

Huckabee
www.huckabee-inc.com
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CEILING DETAILS

VOLUME 01

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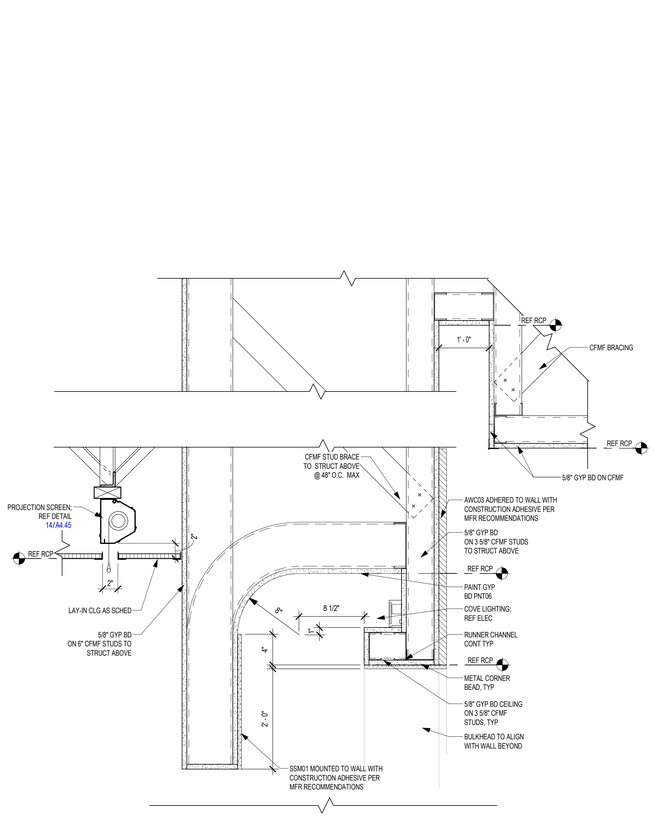
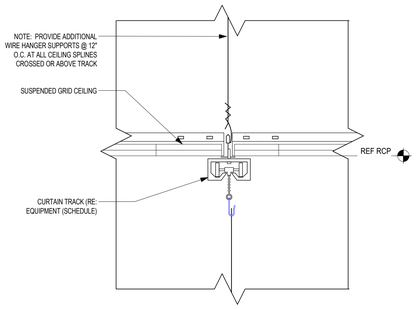
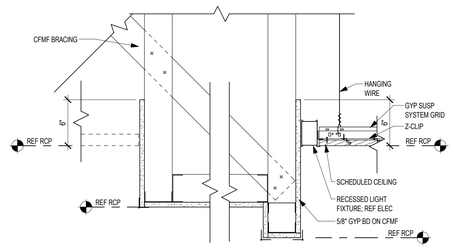


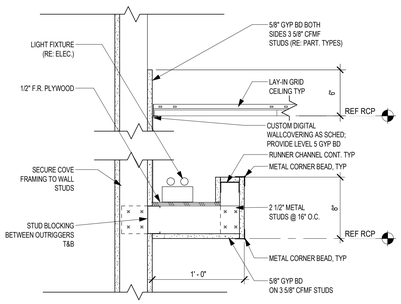
4 CEILING DETAIL - COVE LIGHTING AT PLATFORM OPENING HEAD
1 1/2" = 1'-0"



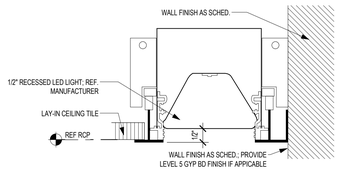
6 CEILING DETAIL - CYRTAIN TRACK AT LAY-IN
3" = 1'-0"



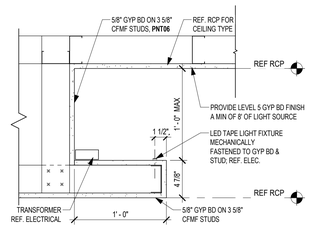
5 CEILING DETAIL - WIDE BULK HEAD
1 1/2" = 1'-0"



3 CEILING DETAIL - LIGHT COVE "UP" AT LAY-IN
1 1/2" = 1'-0"



2 COVE LIGHT DETAIL AT LAY-IN TILE
6" = 1'-0"



1 COVE BULKHEAD W/ LIGHTING
1 1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
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CEILING DETAILS

VOLUME 01

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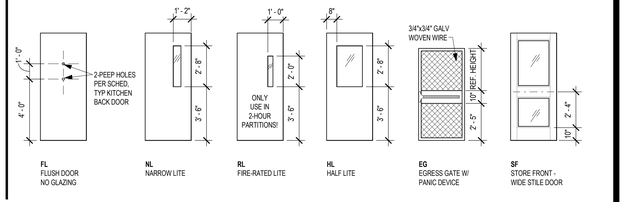

DOOR CONFIGURATIONS

FOLDING PANEL AND OPERABLE GLASS PARTITION SCHEDULE

NUMBER	HARDWARE SET	FRAME TYPE	DOOR DESCRIPTION DR HT	DR WDTH	DOOR MATERIAL	PANEL WIDTH	PANEL QUANTITY	PANIC HARDWARE	PASS DOOR QUANTITY	DETAILS AND NOTES COMMENTS
C108C	001FLD	FP01	9' - 8"	32' - 7 1/2"	MB	3' - 3 1/8"	10			
C112	001FLD	FP02	9' - 2"	22' - 6"	GTC	3' - 7 7/8"	6	Yes	1	
E114C	001FLD	FP01	9' - 8"	32' - 7 1/2"	MB	3' - 3 1/8"	10			

OVERHEAD DOOR SCHEDULE

OPENING NUMBER	OPENING HARDWARE SET	DOOR FRAME TYPE	OPENING FIRE RATING	EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR DR GLAZING	PANIC HARDWARE	SPECIAL NOTES
AREA C									
E117H	001M-EXT	SOH-GL		Yes	20' - 0"	10' - 0"	IGSEF		13
AREA D									
D113	001M-INT	OCD02		No	16' - 1"	12' - 3"			
AREA E									
E117G	001M-EXT	SOH-GL		Yes	20' - 0"	10' - 0"	IGSEF		13
E121a	001M-INT	OCD01	120 MIN.	No	20' - 4"	25' - 0"			13
E121b	001M-INT	OCD01	120 MIN.	No	8' - 0"	9' - 0"			13
AREA F									
F132a	001M-INT	OCG02		No	26' - 6"	10' - 0"			13
F132b	001M-INT	OCG02		No	26' - 6"	10' - 0"			13

HOLLOW METAL DOOR SCHEDULE - LEVEL 1

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	OPENING EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	SPECIAL NOTES
AREA A											
A102	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM03	
A103	C201		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	7, 9
A104	801LCG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
A105	801LCG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
A106	711EL		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
A108	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
A109	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
A110	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01c	
A111A	201	60 MIN.	No	3' - 0"	7' - 0"	SC-NL	GFPR	No	HM	IHM01b	
A111B	201	60 MIN.	No	3' - 0"	7' - 0"	SC-NL	GFPR	No	HM	IHM01b	
A112A	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01b	
A112B	203		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01b	
A113	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01c	
A114	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	
A115	201		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01c	
A118	203G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	
A119	203GW		No	4' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	
A122	203GS		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	
A123	201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01b	
AREA B											
B102	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B103	403		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B104	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B105A	CR201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9
B105B	C201W		No	4' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9
B107	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B108	303G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B109	303G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B111	C201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9
B112A	C201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9
B112B	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B113	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B114	203		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01a	
B115	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B116	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B117	C201		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	7, 9
B118	201X	SR	No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	12
B119	200R	SR	No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM01a	12
B122	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B123	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
B124	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B125	201		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01a	
B126	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B127	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B128	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B129	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B131	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B132	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B133	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B134	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B135	CR207		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9, 10
AREA C											
C101	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C102	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C103	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C106	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C107	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C108A	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
C108B	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
C109	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C111	200		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
C113	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C114	801LG		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01a	
C115	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C116	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C117	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C118	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E121	201	120 MIN	No	2' - 8"	7' - 0"	HM-FL	--	No	HM	IHM01a	
AREA D											
D101	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D103	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D105	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D106A	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D106B	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D107	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D108	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D109	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D111A	801LG	SR	No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	12
D111B	801LG	SR	No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	12
D112A	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D112B	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
AREA E											
E101	507		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E102	303G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E103	201		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01a	
E105	C201		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	7, 9
E106	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E107	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E108	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E109	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E111	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E112	200		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
E114A	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
E114B	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
E115	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E116	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E118	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E119	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E120	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
AREA F											
EXT-17	C714M		Yes	3' - 0"	7' - 0"	HM-FL (PR)	--	Yes	HM	HM02	5, 7, 9
EXT-20	C715VW		Yes	4' - 0"	8' - 0"	HM-FL	--	Yes	HM	HM01	5, 7, 9, 14
EXT-21	C214		Yes	3' - 0"	7' - 0"	HM-FL (PR)	--	No	HM	HM03a	5, 7, 9
EXT-22	C714M		Yes	3' - 0"	7' - 0"	HM-NL (PR)	IGSEF	Yes	HM	HM03a	7, 9
EXT-23	C714M		Yes	3' - 0"	7' - 0"	HM-FL (PR)	--	Yes	HM	HM03a	7, 9
EXT-24	C205		Yes	3' - 0"	7' - 0"	HM-FL	--	No	HM	HM03b	7, 9
F102	103		No	3' - 0"	7' - 0"	SC-NL	GLSA	No	HM	IHM01c	
F104	212		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02b	
F106	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
F108	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
F109	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
F110	C201C		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	7, 9
F111	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
F113	212		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
F115A	503		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
F118	212		No	4' - 0"	7' - 0"	SC-FL	--	No	HM	IHM02b	
F119	700CM		No	3' - 0"	7' - 0"	SC-NL (PR)	GTC	Yes	HM	IHM02a	
F120A	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01c	
F120B	701		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01c	
F121	201X	SR	No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01c	12
F124	201WX	SR	No	4' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01c	7, 12
F126	201X		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	12
F127	203		No	3' - 0"	7' - 0"	HM-FL	--	No	HM	IHM01b	
F130	103		No	3' - 0"	7' - 0"	HM-HL	GTC	No	HM	IHM04	
F131	301G		No	3' - 0"	7' - 0"	HM-FL	--	No	HM	IHM01b	
F133	203		No	3' - 0"	7' - 0"	HM-FL	GTC	No	HM	IHM01b	
F134	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01c	
F138	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01b	

HOLLOW METAL DOOR SCHEDULE - LEVEL 2

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	OPENING EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	SPECIAL NOTES
AREA B											
B201	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
B203	C201C		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	7, 9
B204A	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B204B	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B205	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
B206	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
B207	711EL		No	3' - 0"	7' - 0"	SC-FL	--	Yes	HM	IHM01a	
B208A	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B208B	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
B209	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
B211	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
AREA C											
C201	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C202	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C203	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C206	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C207	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C208	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C209	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C211	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C212	200		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
C213	801LG		No	3' - 0"	7' - 0"	SC-FL		No	HM	IHM01a	
C214	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C215	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C216	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
C217	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
C220	700M		No	3' - 0"	7' - 0"	SC-FL (PR)	--	Yes	HM	IHM02a	
AREA D											
D201A	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D201B	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D202	C201C		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	7, 9
D203	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
D204	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
D206	711EL		No	3' - 0"	7' - 0"	SC-FL	--	Yes	HM	IHM01a	
D207A	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D207B	201X		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
D208	701X		No	3' - 0"	7' - 0"	SC-NL	GTC	Yes	HM	IHM01a	
AREA E											
E205	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E206	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E207	801LG		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E208	301G		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E209	203		No	3' - 0"	7' - 0"	SC-FL	--	No	HM	IHM01a	
E210	200		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
E212	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E213	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E214	503S		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E215	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E216	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E218	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E219	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E220	503		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E221	200		No	3' - 0"	7' - 0"	SC-FL (PR)	--	No	HM	IHM02a	
E222	738RW	120 MIN	No	4' - 0"	9' - 0"	HM-NL (PR)	GFPR	Yes	HM	IHM02a	1
E225	700CM		No	3' - 0"	7' - 0"	SC-FL (PR)	--	Yes	HM	IHM02a	
E226	700CM		No	3' - 0"	7' - 0"	SC-FL (PR)	--	Yes	HM	IHM02a	
E231	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E232A	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E232B	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E233	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	
E234	103		No	3' - 0"	7' - 0"	SC-NL	GTC	No	HM	IHM01a	

ALUMINUM DOOR SCHEDULE - LEVEL 1 & 2

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	OPENING EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	SPECIAL NOTES
LEVEL 01											
AREA A											
A101A	CR207A		No	3' - 0"	7' - 0"	AL-SF	GSEF	No	AL	ISF02	7, 9, 10
A101B	CR710AMV		No	3' - 0"	7' - 0"	AL-SF (PR)	GSEF	Yes	AL	ISF01	7, 9
EXT-01	CR714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	CW06	7, 9, 10
EXT-02	C205A		Yes	3' - 0"	7' - 0"	AL-SF	IGSEF	No	AL	SF	7, 9
EXT-03	C205A		Yes	3' - 0"	7' - 0"	AL-SF	IGSEF	No	AL	SF	7, 9
EXT-04	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF05	7, 9
EXT-05	C715A		Yes	3' - 0"	7' - 0"	AL-SF	IGSEF	Yes	AL	SF07	7, 9
AREA B											
B101	CR207A		No	3' - 0"	7' - 0"	AL-SF	GTC	No	AL	ISF01	10
AREA C											
C119A	700ACM		No	3' - 0"	7' - 0"	AL-SF (PR)	GTC	Yes	AL	ICW01	
C119B	701AC		No	3' - 0"	7' - 0"	AL-SF	GTC	Yes	AL	ICW01	
EXT-06	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF32	7, 9
EXT-07	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF10	7, 9
EXT-09	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF33	7, 9
EXT-10	C715A		Yes	3' - 0"	7' - 0"	AL-SF	IGSEF	Yes	AL	SF39	7, 9
EXT-11	C715A		Yes	3' - 0"	7' - 0"	AL-SF	IGSEF	Yes	AL	CW02	7, 9
AREA D											
EXT-26	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF30	7, 9
AREA E											
E104	503		No	3' - 0"	7' - 0"	AL-SF	GTC	No	AL	ISF04	
EXT-12	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF33	7, 9
EXT-14	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF10	7, 9
EXT-15	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF32	7, 9
EXT-16	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF19	7, 9
AREA F											
EXT-18	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF14b	7, 9
EXT-19	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF14	7, 9
EXT-25	C714AM		Yes	3' - 0"	7' - 0"	AL-SF (PR)	IGSEF	Yes	AL	SF31	7, 9
F105A	700ACM		No	3' - 0"	7' - 0"	AL-SF (PR)	GLSA	Yes	AL	ISF06	
F112	700ACM		No	3' - 0"	7' - 0"	AL-SF (PR)	GTC	Yes	AL	ISF05	
LEVEL 02											
AREA C											
C218	501A		No	3' - 0"	7' - 0"	AL-SF	GTC	No	AL	ISF07	

ACOUSTIC DOOR SCHEDULE (STC 50)

OPENING NUMBER	OPENING HARDWARE SET	OPENING FIRE RATING	OPENING EXTERIOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR DR GLAZING	DOOR PANIC HARDWARE	FRAME MATERIAL	FRAME TYPE	SPECIAL NOTES
AREA A											
A107	S503		No	4' - 0"	7' - 0"	AC-WL	SCWA	No	HM	AC02	3
A116A	S701		No	3' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3
A116B	S701		No	3' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3
A117A	S701		No	4' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3
A117B	S701		No	3' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3
A120	S503		No	4' - 0"	7' - 0"	AC-WL	SCWA	No	HM	AC01	3
A121A	S701		No	4' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3
A121B	S701		No	3' - 0"	7' - 0"	AC-NL	SCWA	No	HM	AC01	3

DEFAULT DOORS

IF A DOOR ASSEMBLY APPEARS ON THE FLOOR PLANS BUT IS NOT IDENTIFIED BY A SCHEDULE NUMBER, THE DOOR SHALL BE INCLUDED IN THE BID AS LISTED BELOW. THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT TO DETERMINE WHAT THE ACTUAL DOOR AND FRAME TYPE AND HARDWARE REQUIREMENTS WILL BE. ADJUSTMENTS IN CONTRACT PRICE WILL BE BASED ON THE DIFFERENCE BETWEEN ACTUAL REQUIREMENTS AND THE DEFAULT DOOR VALUE.

THE DEFAULT EXTERIOR DOOR SHALL BE A TYPE "HM-FL" (SINGLE OR PAIR PER PLAN) WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR EXTERIOR DOORS.

THE DEFAULT INTERIOR DOOR SHALL BE A TYPE "SC-FL" (SINGLE OR PAIR PER PLAN) IN A TYPE "HM01" FRAME WITH DEFAULT HARDWARE PER SPECIFICATIONS AND FRAME DETAILING PER TYPICAL DETAILS FOR INTERIOR DOORS.

TYPICAL NOTES

A. DOOR TYPES ARE INDICATED AS A MATERIAL-CONFIGURATION CODE. THE MATERIAL CODE DESIGNATES MATERIALS AND FINISHES AS SPECIFIED. REFER TO SPECIAL NOTES FOR NON-TYPICAL FINISHES. THE CONFIGURATION CODE REFERS TO TYPICAL OR SPECIAL CONFIGURATIONS AS DRAWN.

B. DOOR ASSEMBLIES ARE NUMBERED BY ASSEMBLY. MULTIPLE SETS OF DOORS MAY OCCUR IN THE SAME FRAME ASSEMBLY (REFER TO SCHEDULE AND PLAN FOR QUANTITY). DOORS MAY OCCUR IN PAIRS (REFER TO SCHEDULE AND PLAN FOR INCIDENCE).

C. FRAME CONFIGURATION IS DIAGRAMMATIC AND NOMINAL DIMENSIONS SHALL BE ADJUSTED TO ACCOMMODATE DOOR SIZES AS SCHEDULED. WITHIN ANY HOLLOW METAL ASSEMBLY, THE WIDTH OF SIDELITES SHALL BE EQUAL AND SHALL NOT EXCEED 2'-0" U.N.O.

D. ALTERNATE FINISHES CAN SOMETIMES HAVE AN IMPACT ON DETAILING (E.G. HALF OR OFFSET SADDLES EMPLOYED IN LIEU OF STANDARD SADDLES WHEN ADJACENT TO THICKER FLOOR FINISHES SUCH AS TERRAZZO OR QUARRY TILE). COORDINATE DETAILS WITH FINAL FINISH SELECTIONS.

E. GLAZED FRAMES ASSOCIATED WITH 20-MINUTE, 45-MINUTE AND/OR 60-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 1-HOUR. GLAZED FRAMES ASSOCIATED WITH 90-MINUTE FIRE-RATED DOORS SHALL BE FIRE-RATED 2-HOUR. GLAZING MUST MEET CODE REQUIREMENTS, INCLUDING SIZE LIMITATIONS, IN FIRE-RATED FRAMES. REF. IBC TABLE 716.1 (2).

F. PROVIDE 2x WOOD BLOCKING @ CFMF STUD WALLS FOR WALL MOUNTED ITEMS LIKE WALL STOPS, HOLD OPENS, ETC.

G. REFER TO FLOOR PLANS AND EXTERIOR ELEVATIONS FOR ALUMINUM FRAME LOCATIONS.

H. OVERHEAD COILING DOORS ARE MOTORIZED UNLESS NOTED OTHERWISE.

SPECIAL NOTES:

1. MAGNETIC HOLD OPEN - REF. FIRE ALARM SHEETS.
2. MANUAL HOLD OPEN.
3. SOUND CONTROL DOOR ASSEMBLY (STC 50).
4. ACOUSTICALLY TREATED OPENING. PROVIDE CONTINUOUS PERIMETER FRAME SEALS, FLAT THRESHOLD, AND A COMPRESSION-TYPE DOOR BOTTOM SEAL, WHERE DOOR TYPE INDICATE GLAZING, PROVIDE SOUND CONTROL WINDOW ASS

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AL - ALUMINUM FRAME AS SCHEDULED AND SPECIFIED

HM - HOLLOW METAL AS SCHEDULED AND SPECIFIED

WINDOW FRAME MATERIALS

IGE - INSULATED GLASS ETCHED

IGLSA - INSULATED GLASS LAMINATED SAFETY

IGCP - INSULATED GLASS-CLAD POLYCARBONATE

IGDF - INSULATED GLASS DECORATIVE FILM

IGS - INSULATED GLASS SPANDREL

IGSE - INSULATED GLASS SECURITY

IGSEF - INSULATED GLASS SECURITY FILM

IGU - INSULATED GLASS UNIT

GFRR - GLASS FIRE-RESISTANCE-RATED

GFPR - GLASS FIRE-PROTECTION-RATED

GLSA - GLASS LAMINATED SAFETY

GLSE - GLASS LAMINATED SECURITY

GSEF - GLASS SECURITY FILM

GTC - GLASS TEMPERED CLEAR

SCWA - SOUND CONTROL WINDOW ASSEMBLY

1. ALL GLAZING IS 1/4" THICK (U.N.O.). INSULATED GLASS SHALL CONSIST OF AN EXTERIOR LAYER OF GLASS, TINTED AS SPECIFIED, AN INTERIOR LAYER OF CLEAR GLASS, FACTORY SEALED WITH A 1/2" AIR SPACE. WHERE TEMPERED GLASS IS SPECIFIED, BOTH LAYERS OF INSULATED GLASS SHALL BE TEMPERED.
2. ANY WINDOW OR GLAZING PANELS LOCATED AT A INTERSTITIAL SPACE OR NOT READILY VISIBLE SHALL HAVE SPANDREL GLASS INSTALLED, REGARDLESS OF ANY NOTATION ELSEWHERE.

GLAZING LEGEND

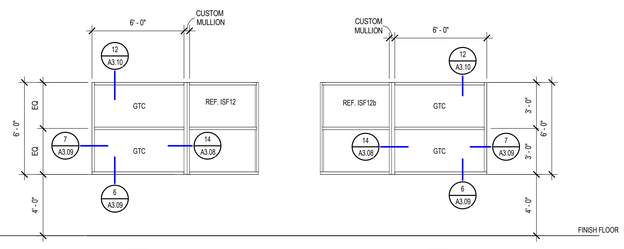
TYPICAL NOTES

A) WINDOW FRAME TYPES ARE INDICATED AS A MATERIAL-CONFIGURATION CODE. THE MATERIAL CODE DESIGNATES MATERIALS AND FINISHES AS SPECIFIED. REFER TO SPECIAL NOTES FOR NON-TYPICAL FINISHES. THE CONFIGURATION CODE REFERS TO TYPICAL OR SPECIAL CONFIGURATIONS AS DRAWN.

B) WINDOW FRAME CONFIGURATION IS DIAGRAMMATIC AND NOMINAL. SIZE SHALL BE ADJUSTED FOR INSTALLATION CLEARANCES. WITHIN ANY ASSEMBLY, THE WIDTH OF SIDELITES SHALL BE EQUAL AND SHALL NOT EXCEED 3' - 0" U.N.O.

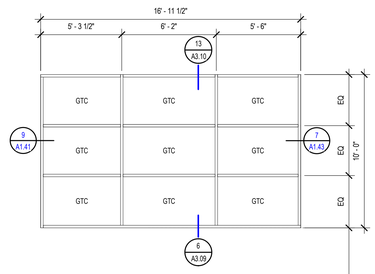
C) ALL GLAZING AND ALUMIN. FRAME ON CURVE WALLS TO BE SEGMENTED UNLESS NOTED OTHERWISE.

WINDOW ASSEMBLY NOTES



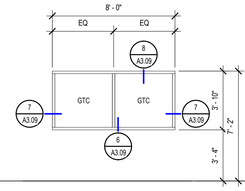
ISF12b

ISF12



NOTE: VERT. MULLION PLACEMENT TO MATCH ISF01

ISF08



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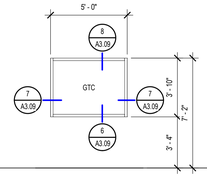

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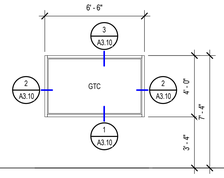
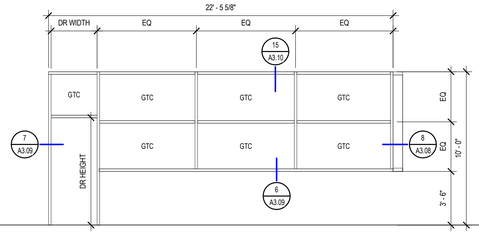


ISF09



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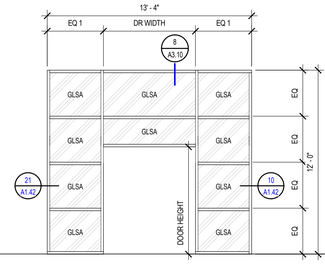

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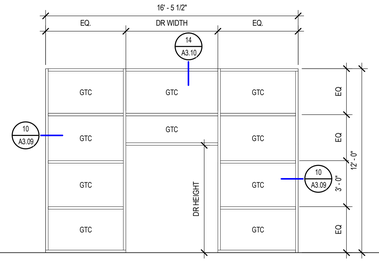

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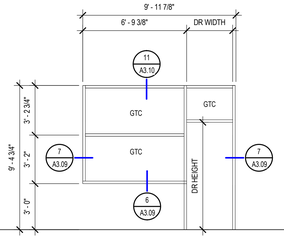
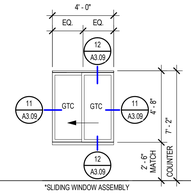
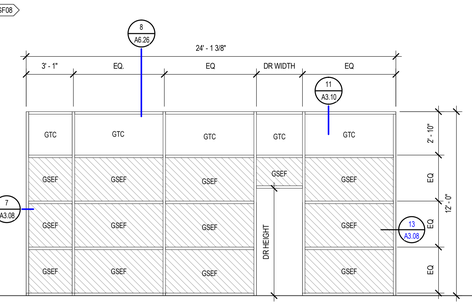


ISF04



*SLIDING WINDOW ASSEMBLY

ISF03



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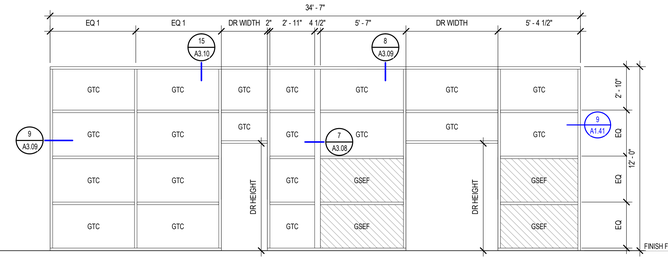

ISF01

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29834
7/15/2026

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INTERIOR STOREFRONT CONFIGURATIONS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A3.02
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Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
7/15/2026

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EXTERIOR STOREFRONT CONFIGURATIONS

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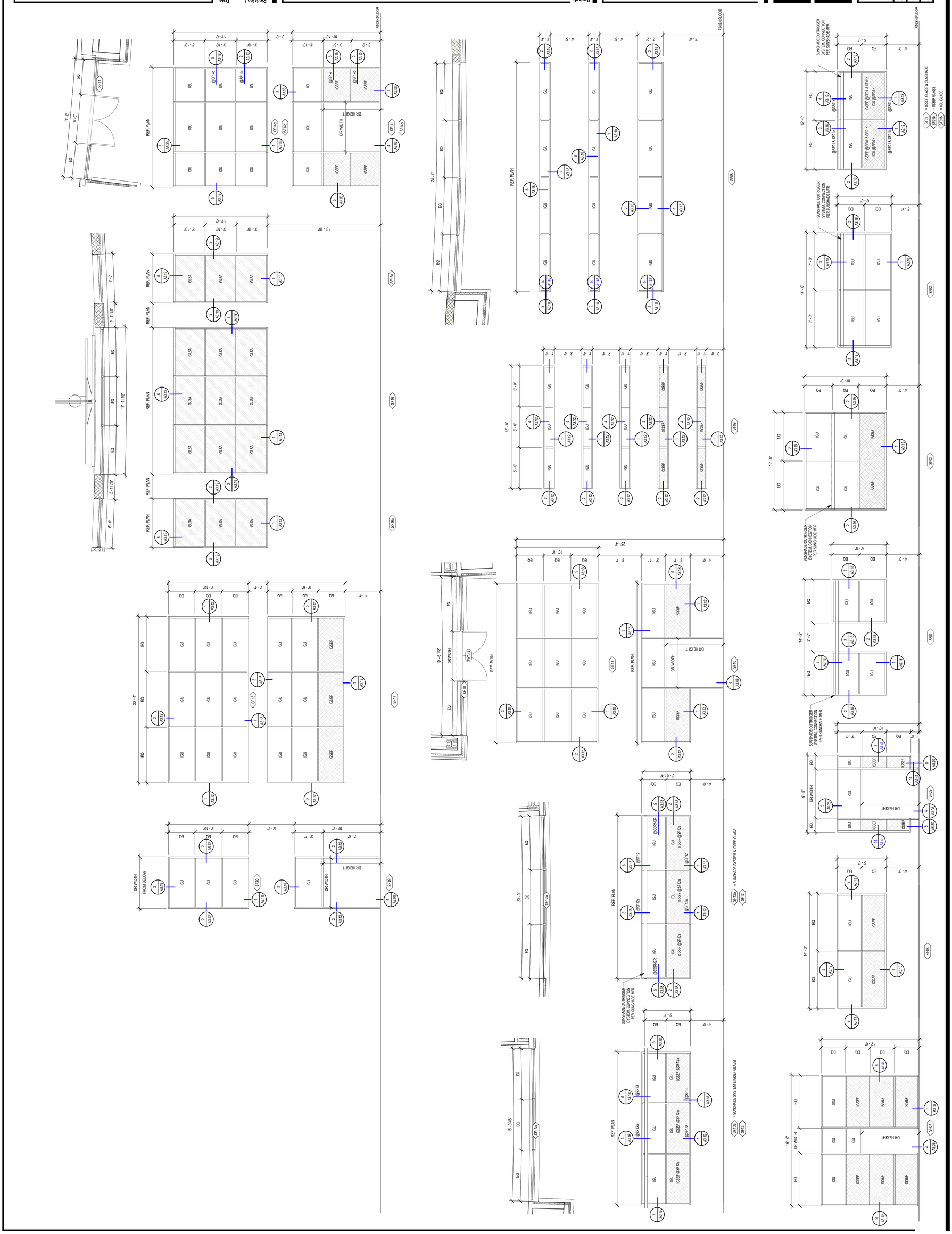
Sheet No. A3.03



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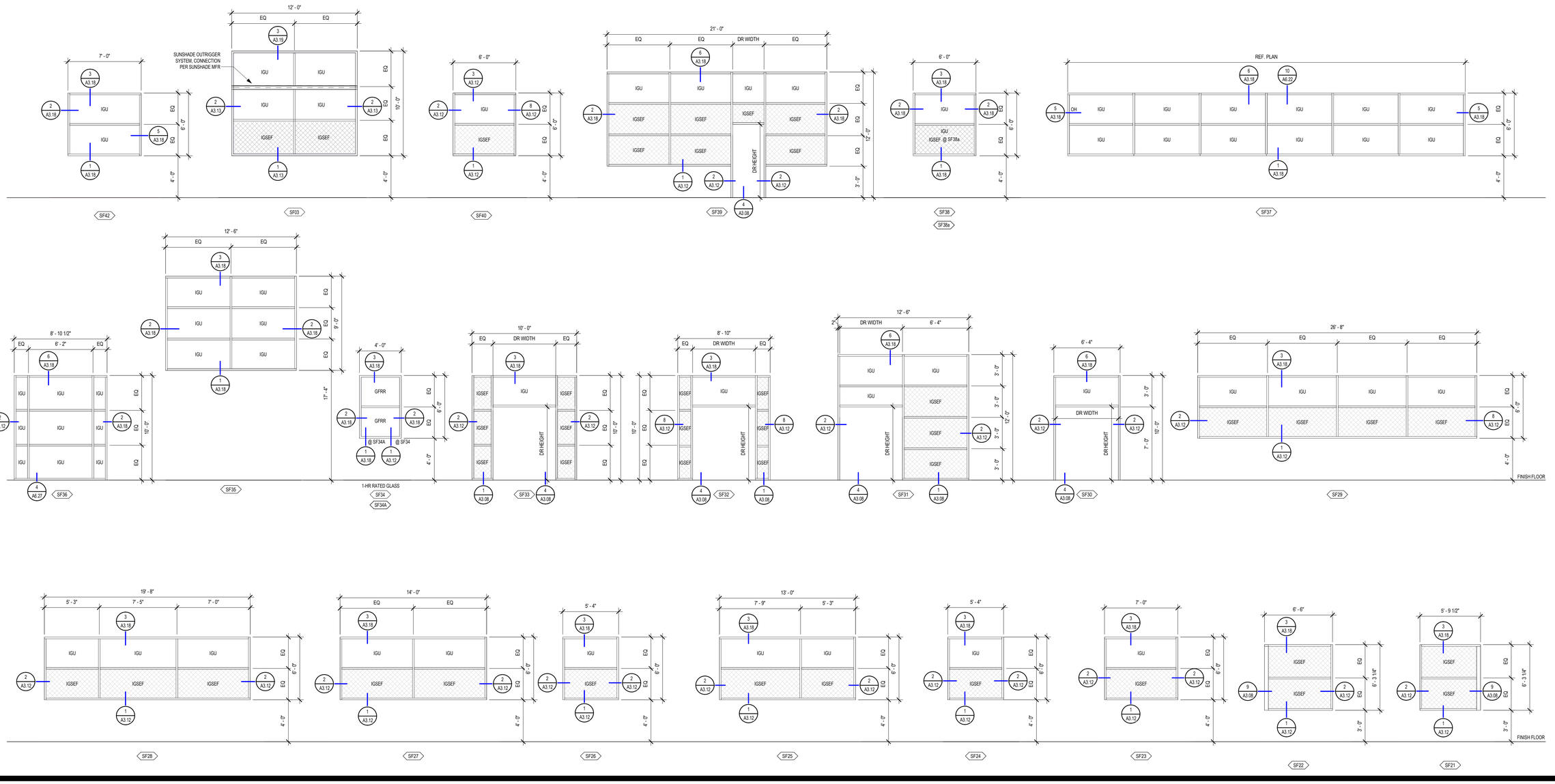
THE OPENINGS LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER A3 SHEETS FOR FULL LEGENDS, SCHEDULES AND NOTES.

DOOR AND WINDOW LEGEND

Revision / Date

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



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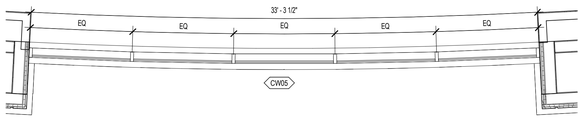

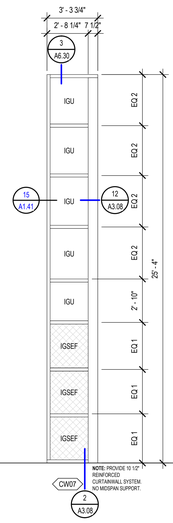

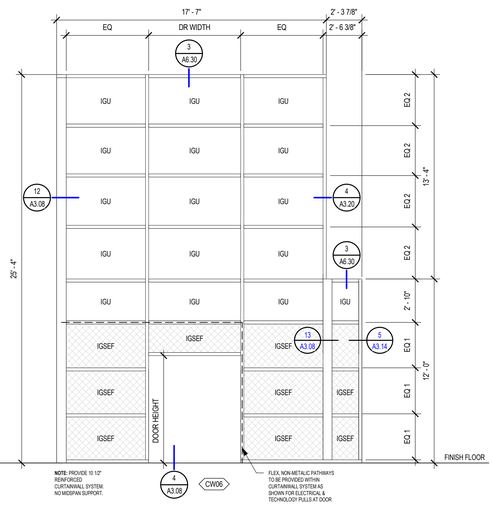

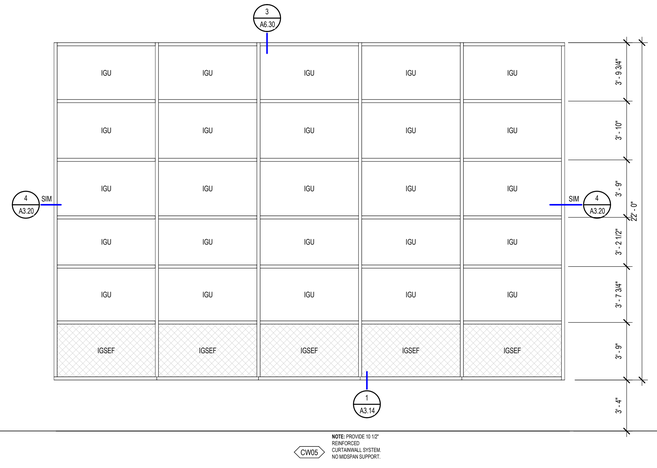

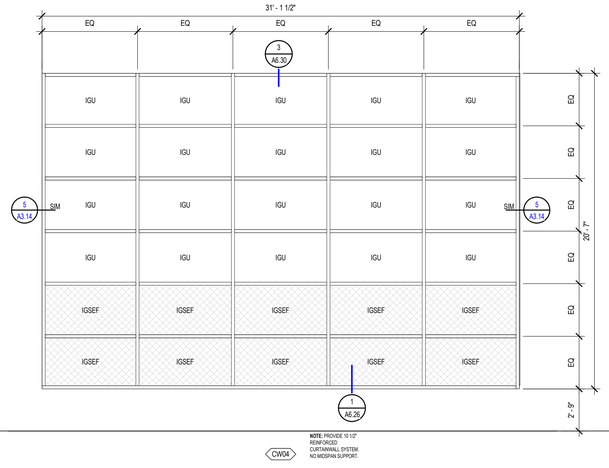

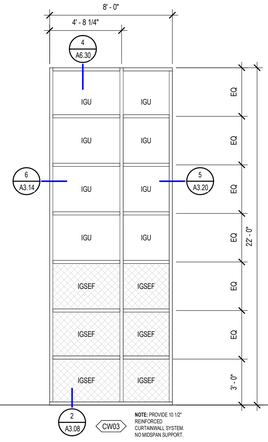

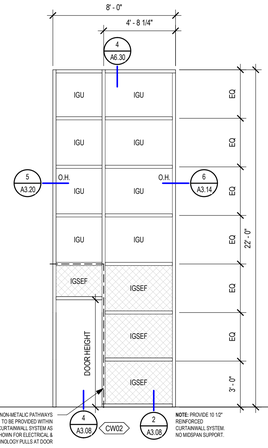

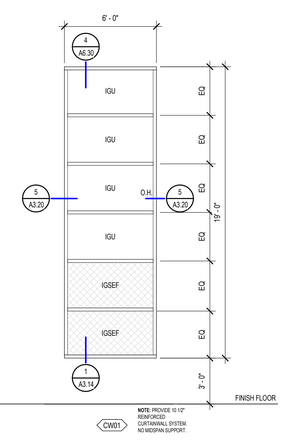

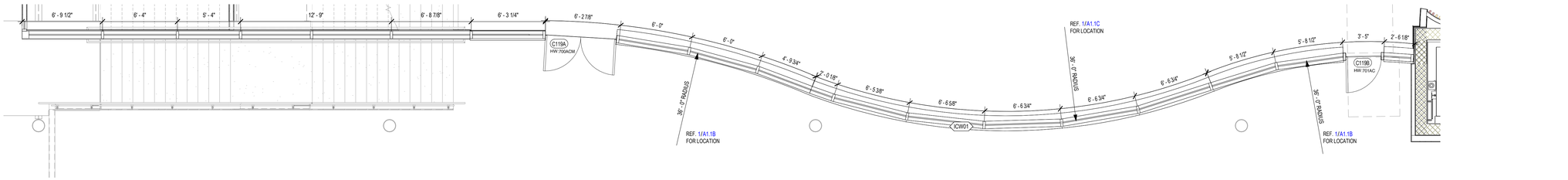

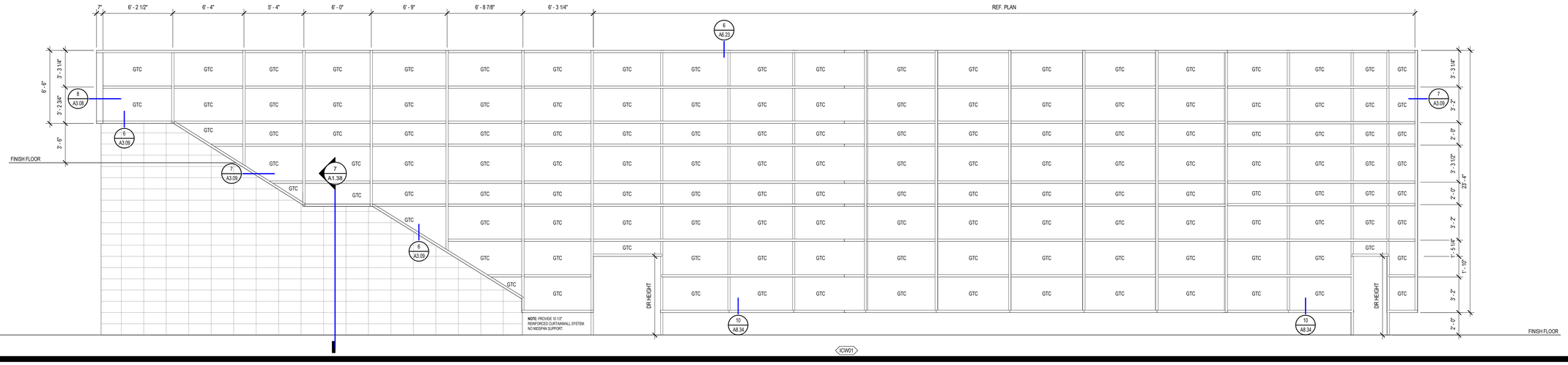

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date



7/15/2026

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INTERIOR & EXTERIOR CURTAINWALL CONFIGURATIONS

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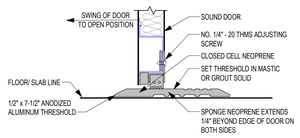
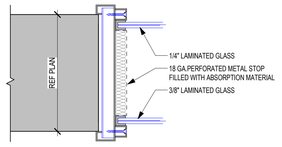
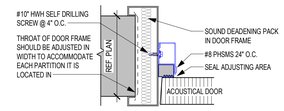


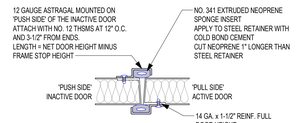
6 THRESHOLD - ACOUTIC SILL
3" = 1'-0"



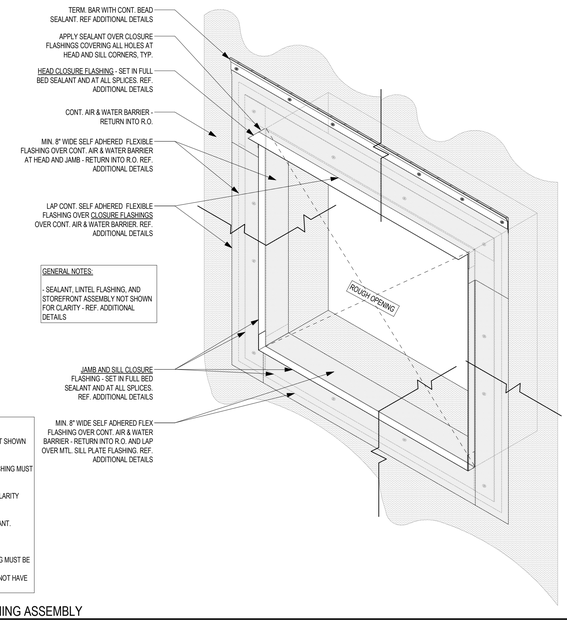
5 JAMB - ACOUSTIC WINDOW ASSEMBLY
3" = 1'-0"



4 HEAD / JAMB - ACOUSTIC DOOR ASSEMBLY
3" = 1'-0"



3 ACOUSTIC ASTRAGAL - PAIR OF DOORS ASSEMBLY
3" = 1'-0"



GENERAL NOTES:

- SEALANT, LINTEL FLASHING, AND WINDOW FRAME ASSEMBLY NOT SHOWN FOR CLARITY - REF. ADDITIONAL DETAILS.

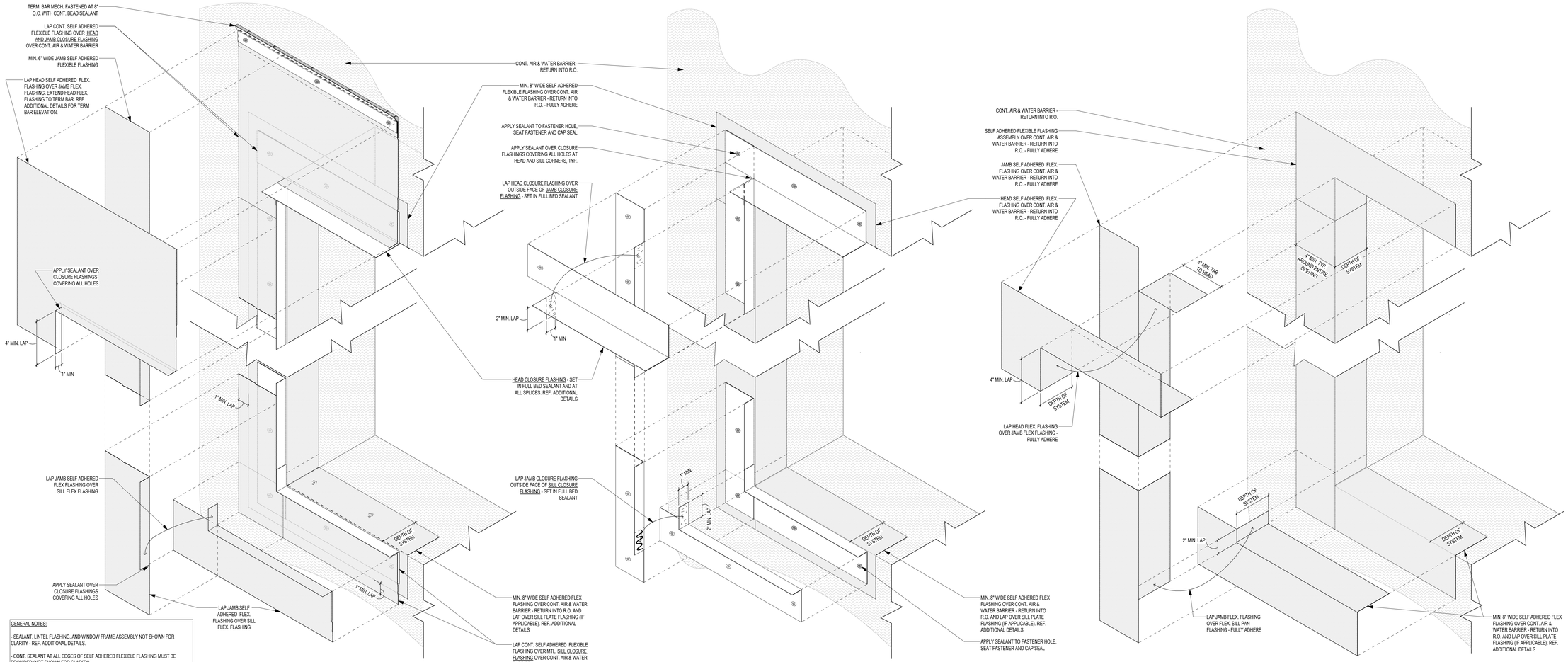
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY).

- MATERIAL LAYERS SHOWN OFFSET FROM BREAKLINE ARE FOR CLARITY ONLY AND DO NOT INDICATE STOPPAGE OF MATERIALS.

- ALL FASTENERS MUST BE FULLY COVERED IN COMPATIBLE SEALANT.

- ALL SHEET METAL FLASHINGS:
  - MUST BE 24 GAUGE MINIMUM.
  - AT OPENINGS UP TO 8'-0" WIDE OR HIGH, SHT. MTL. FLASHING MUST BE SINGLE PIECE LENGTHS FREE OF SPLICES.
  - AT OPENINGS WIDER THAN 8'-0", SHT. MTL. FLASHING MUST NOT HAVE SPLICES WITHIN 12" OF NEAREST CORNER CONDITION.

2 TYPICAL PUNCHED OPENING FLASHING ASSEMBLY
1 1/2" = 1'-0"



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- ALL FASTENERS MUST BE FULLY COVERED IN COMPATIBLE SEALANT.

- ALL SHEET METAL FLASHINGS:
  - MUST BE 24 GAUGE MINIMUM.
  - MUST PROVIDE SINGLE PIECE SHT. MTL. FLASHING LENGTHS FREE OF SPLICES WHERE POSSIBLE.
  - AT OPENINGS WHERE SPLICES IN SHT. MTL. FLASHING ARE REQUIRED, FLASHINGS MUST NOT HAVE SPLICES WITHIN 12" OF NEAREST CORNER CONDITION.

1 TYPICAL PUNCHED OPENING FLASHING LAYER ASSEMBLY
3" = 1'-0"

Revision / Date

Project:
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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 [illegible]
STATE OF TEXAS
7/15/2026

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TYP. OPENING FLASHING DETAILS

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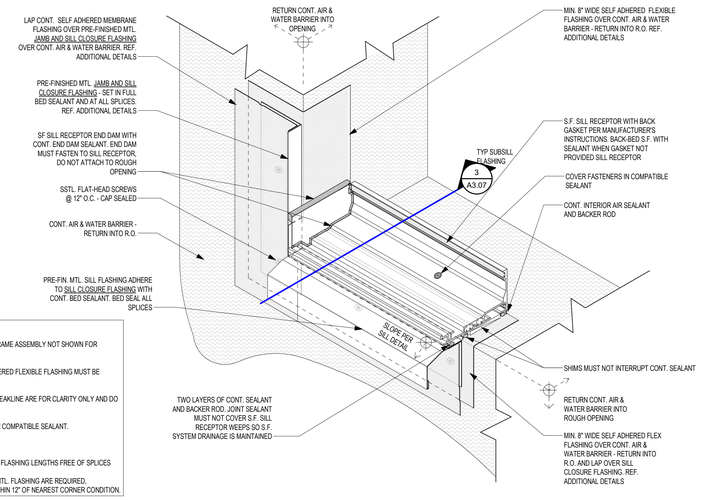

GENERAL NOTES:

- SEALANT, LINTEL FLASHING, AND WINDOW FRAME ASSEMBLY NOT SHOWN FOR CLARITY - REF. ADDITIONAL DETAILS.

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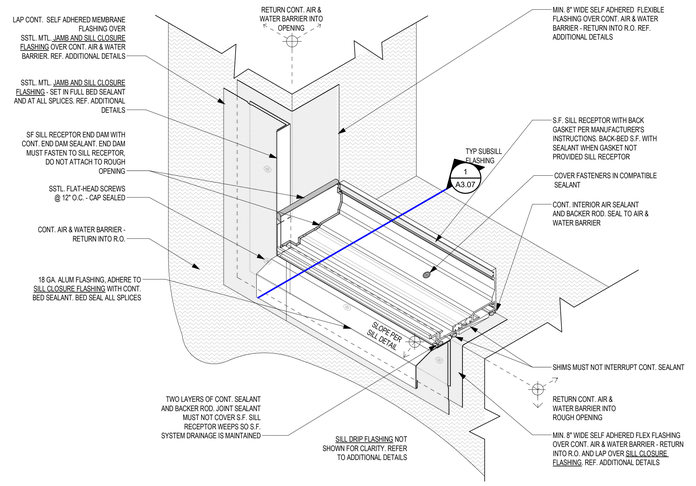
4 STEP TWO: STOREFRONT SILL RECEPTOR - METAL PANEL

3" = 1'-0"



GENERAL NOTES:

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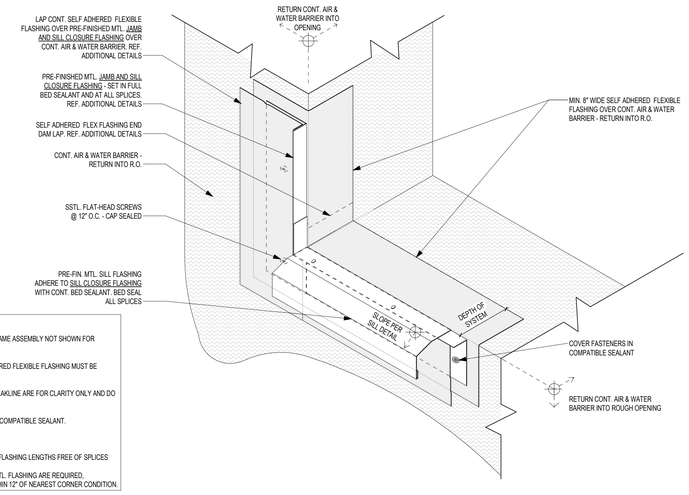
2 STEP TWO: STOREFRONT SILL RECEPTOR - MASONRY VENEER

3" = 1'-0"



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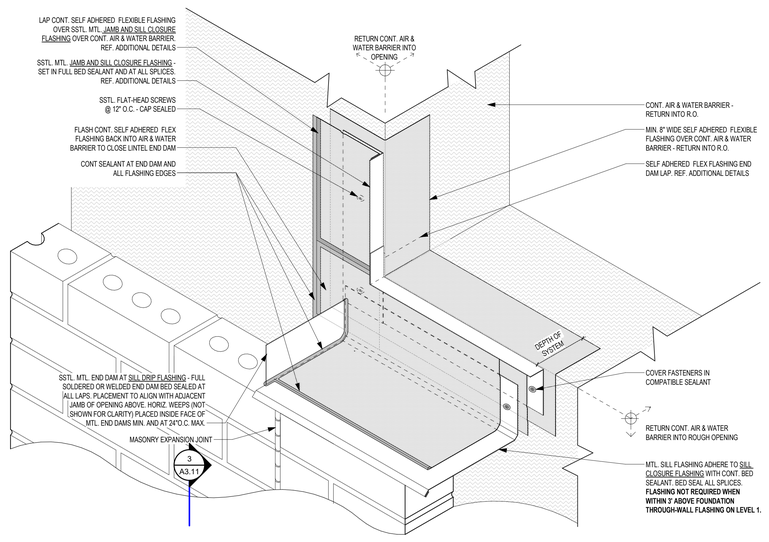
  - AT OPENINGS WHERE SPLICES IN SHT. MTL. FLASHING ARE REQUIRED, FLASHINGS MUST NOT HAVE SPLICES WITHIN 12" OF NEAREST CORNER CONDITION.

3 STEP ONE: TYPICAL SUBSILL FLASHING - METAL PANEL

3" = 1'-0"



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1 STEP ONE: TYPICAL SUBSILL FLASHING - MASONRY VENEER

3" = 1'-0"

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

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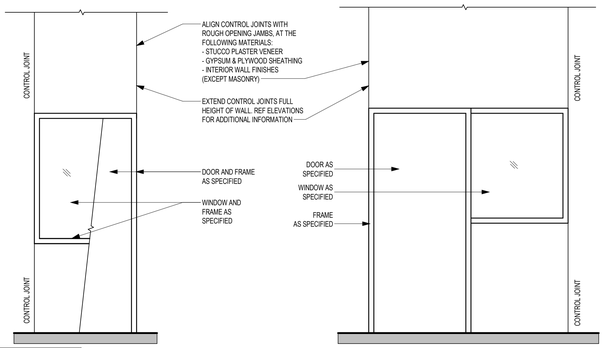
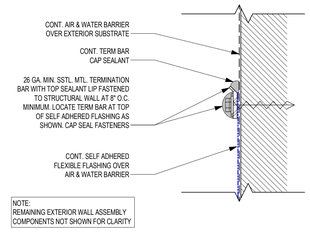
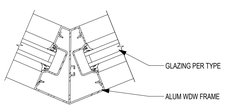


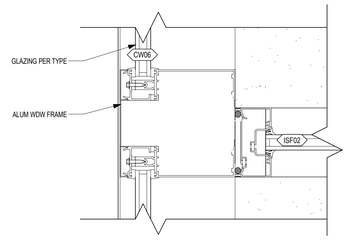
11 TYP CONTROL JOINT ELEVATION AT OPENINGS
1/2" = 1'-0"



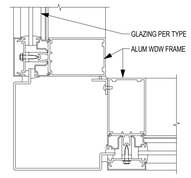
10 TYPICAL TERMINATION BAR DETAIL
6" = 1'-0"



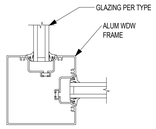
14 CUSTOM STOREFRONT CORNER JAMB
3" = 1'-0"



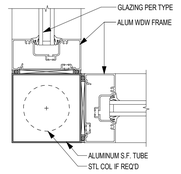
13 EXT. CURTAIN WALL TO INT. STOREFRONT JAMB
3" = 1'-0"



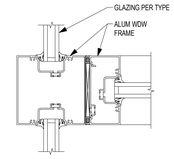
12 TYPICAL CURTAIN WALL CORNER JAMB
3" = 1'-0"



9 TYPICAL STOREFRONT/CURTAIN CORNER JAMB
3" = 1'-0"



8 TYPICAL STOREFRONT CORNER JAMB DETAILS
3" = 1'-0"



7 TYPICAL STOREFRONT CORNER JAMB DETAILS
3" = 1'-0"

6 TYP MASONRY VENEER EXPANSION JOINT ELEVATION AT ROUGH OPENINGS WITH LOOSE OR FIXED LINTELS
1/2" = 1'-0"

5 TYPICAL HOLLOW METAL DOOR THRESHOLD
3" = 1'-0"

4 TYPICAL STOREFRONT DOOR THRESHOLD
3" = 1'-0"

3 TYP MASONRY VENEER EXPANSION JOINT ELEVATION AT ROUGH OPENINGS WITH LOOSE LINTELS
1/2" = 1'-0"

2 TYPICAL CURTAIN WALL SILL AT FFE - MASONRY VENEER & CFMF
3" = 1'-0"

1 TYPICAL STOREFRONT SILL AT FFE
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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TYP. DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A3.08
Drawn By: KR	
Date: 07.15.26	

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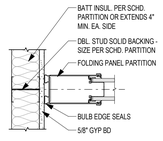
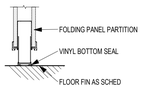
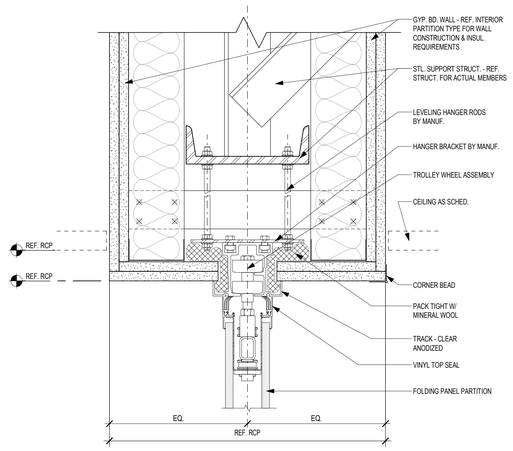


19 FOLDING PANEL PARTITION JAMB
1 1/2" = 1'-0"



18 FOLDING PANEL PARTITION SILL
1 1/2" = 1'-0"



17 HEAD DETAIL - FOLDING PANEL PART. (ACOUSTIC)
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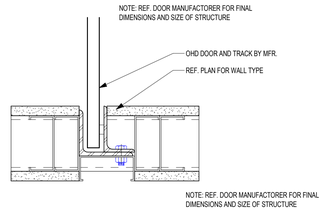

14 JAMB DETAIL - OCD - CFMF
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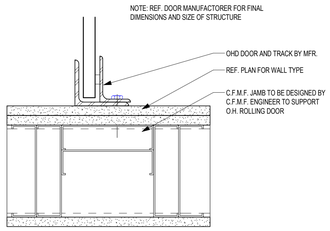
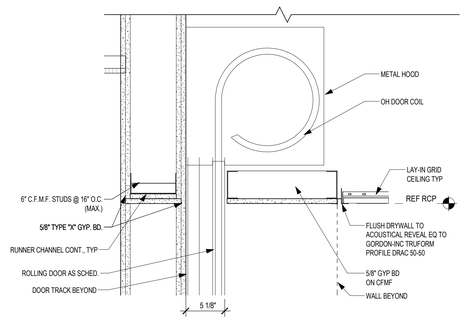
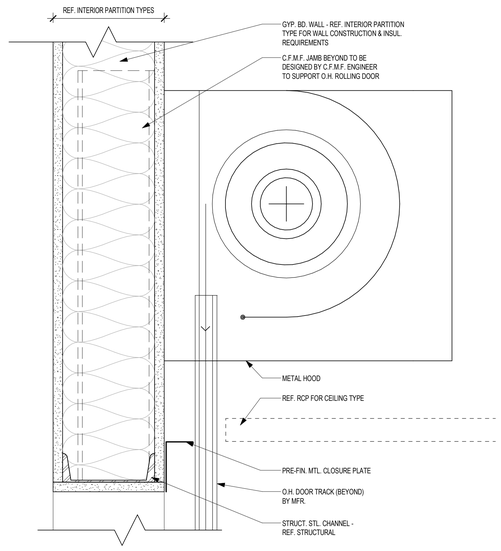


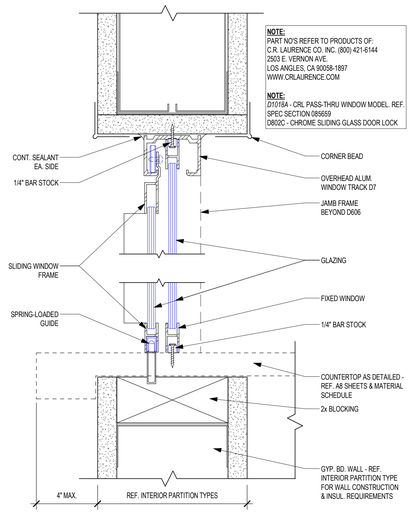
13 JAMB DETAIL - OCD - CFMF FIRE RATED
3" = 1'-0"



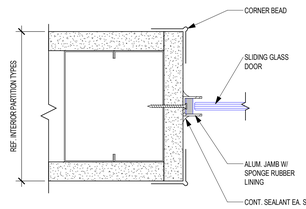
16 HEAD DETAILL - OCD - CFMF FIRE RATED
1 1/2" = 1'-0"



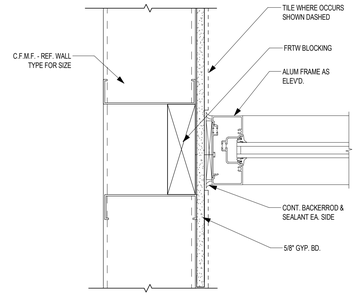
15 HEAD DETAILL - OCD - CFMF
3" = 1'-0"



12 HEAD / SILL DETAIL - INT SLIDING WINDOW
6" = 1'-0"



11 JAMB DETAIL - INT SLIDING WINDOW
6" = 1'-0"



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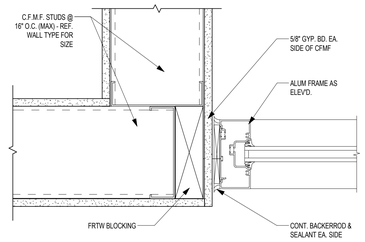

9 JAMB DETAIL
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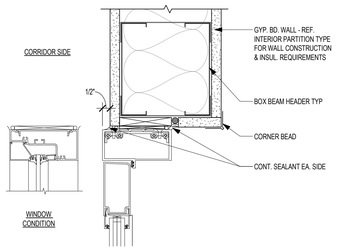
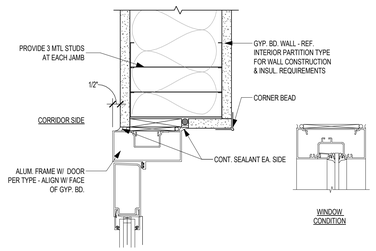


ALUM. FRAMES AT 8" OR LARGER MTL. STUD WALLS SHALL BE CENTERED ON THE MTL. STUD. REFER TO **SPEC SECTION 08 4313**

NOTE: AT WINDOWS W/ BUTT GLAZING CFMF ENGINEER TO PROVIDE ADDITIONAL SUPPORT FOR INCREASED WEIGHT

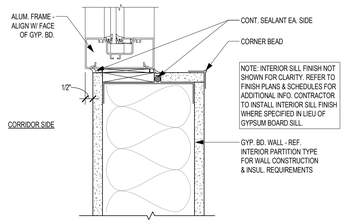
8 HEAD DETAIL - AL / INT. MTL. STUD WALL
3" = 1'-0"



ALUM. FRAMES AT 8" OR LARGER MTL. STUD WALLS SHALL BE CENTERED ON THE MTL. STUD. REFER TO **SPEC SECTION 08 4313**

NOTE: AT WINDOWS W/ BUTT GLAZING CFMF ENGINEER TO PROVIDE ADDITIONAL SUPPORT FOR INCREASED WEIGHT

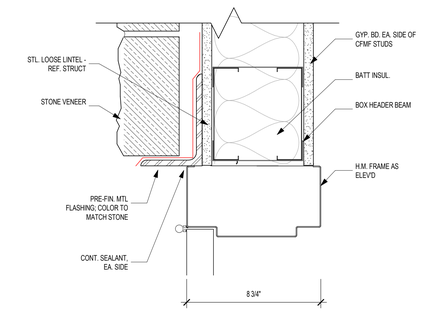
7 JAMB DETAIL - AL / INT. MTL. STUD WALL
3" = 1'-0"



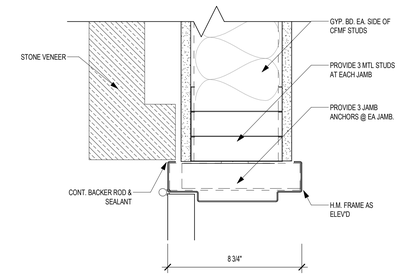
ALUM. FRAMES AT 8" OR LARGER MTL. STUD WALLS SHALL BE CENTERED ON THE MTL. STUD. REFER TO **SPEC SECTION 08 4313**

NOTE: AT WINDOWS W/ BUTT GLAZING CFMF ENGINEER TO PROVIDE ADDITIONAL SUPPORT FOR INCREASED WEIGHT

6 SILL DETAIL - AL / INT. MTL. STUD WALL
3" = 1'-0"



5 HEAD DETAIL - HM / INT. MTL. STUD / MASONRY
3" = 1'-0"



4 JAMB DETAIL - HM / INT. MTL. STUD / MASONRY
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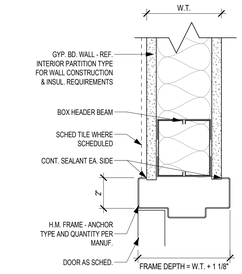
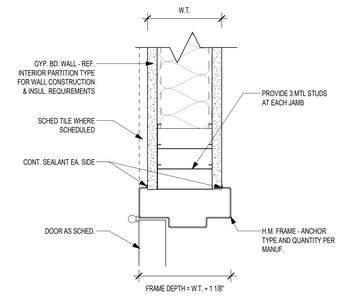


3 HEAD DETAIL - HM / INT. MTL. STUD WALL
3" = 1'-0"



2 JAMB DETAIL - HM / INT. MTL. STUD WALL
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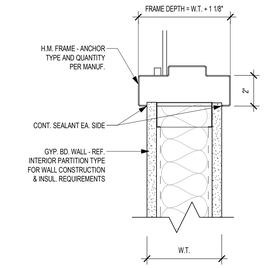

1 SILL DETAIL - HM / INT. MTL. STUD WALL
3" = 1'-0"

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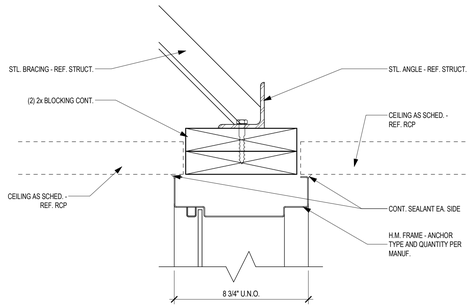

16 HEAD DETAIL - HM INT. @ CEILING
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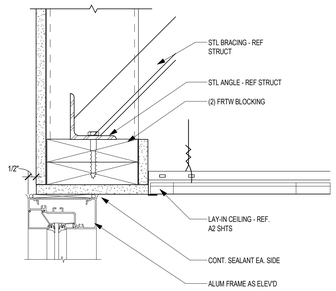
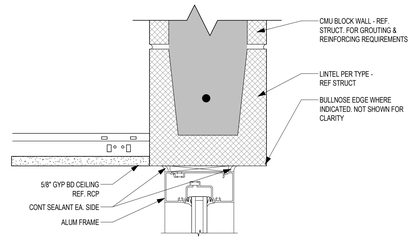


12 HEAD DETAIL
3" = 1'-0"



8 HEAD DETAIL - AL / INT. CMU WALL @ GYP BD CEILING
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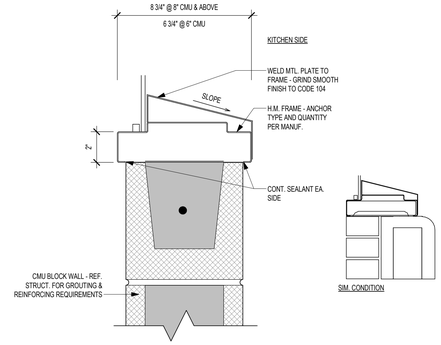
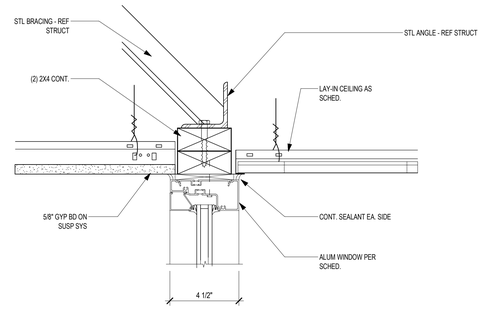
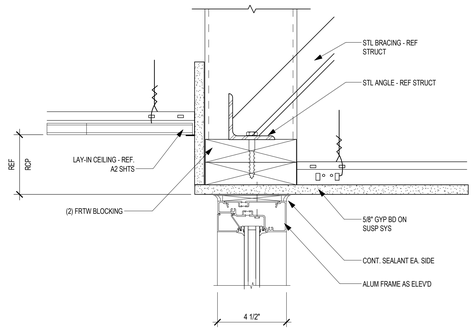


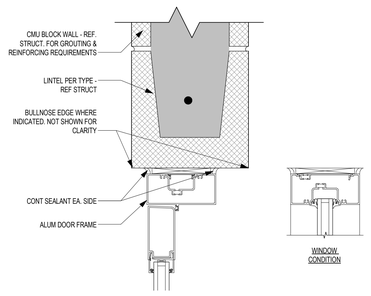
4 SILL DETAIL - HM / INT. CMU WALL - KITCHEN
3" = 1'-0"



15 HEAD DLT ALUM - LAY-IN / LAY-IN
3" = 1'-0"



11 HEAD DETAIL
3" = 1'-0"



7 HEAD DETAIL - AL / INT. CMU WALL
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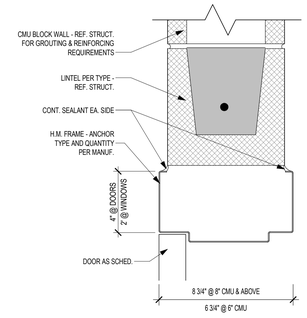
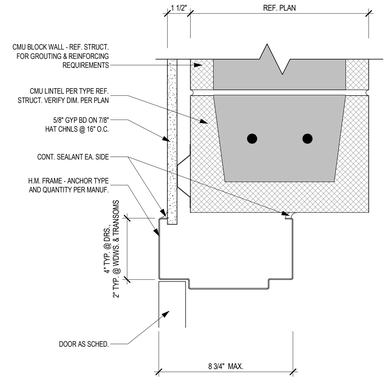
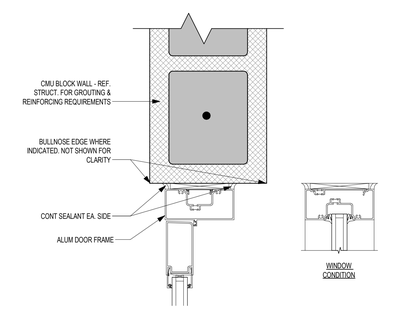


3 HEAD DETAIL - HM / INT. CMU WALL
3" = 1'-0"

14 HEAD DLT ALUM - GYP BD / LAY-IN
3" = 1'-0"



10 HEAD DETAIL - CMU / GYP
3" = 1'-0"



6 JAMB DETAIL - AL / INT. CMU WALL
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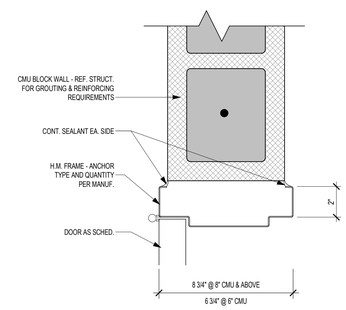

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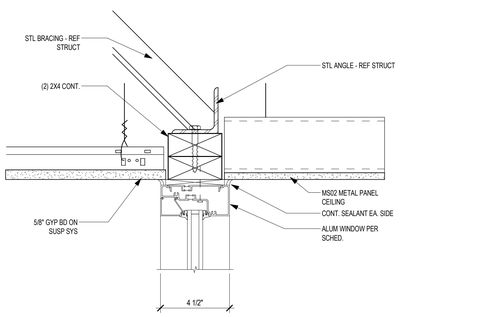
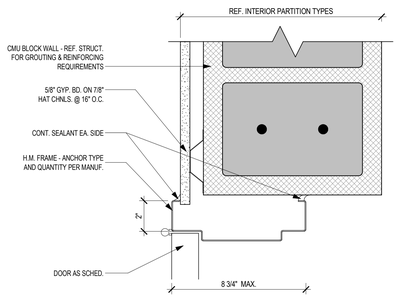
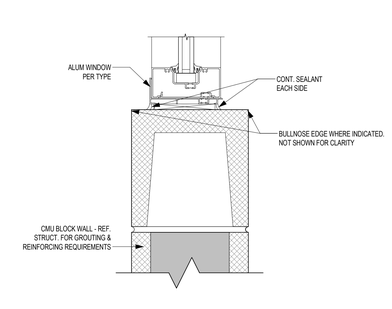


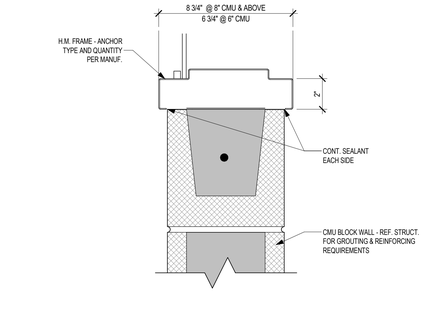
13 HEAD DLT ALUM - GYP BD / GYP BD
3" = 1'-0"



9 JAMB DETAIL - CMU / GYP
3" = 1'-0"



5 SILL DETAIL - AL / INT. CMU WALL
3" = 1'-0"



1 SILL DETAIL - HM / INT. CMU WALL
3" = 1'-0"

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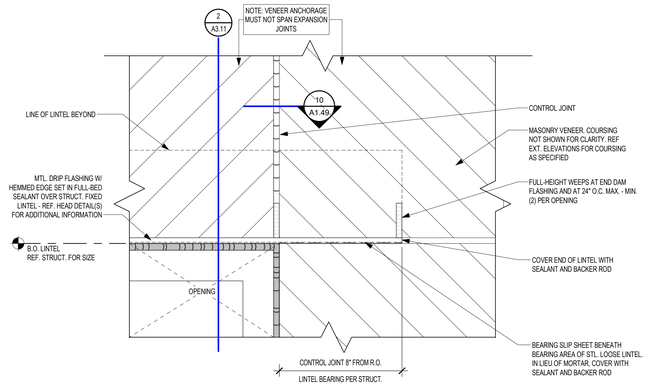
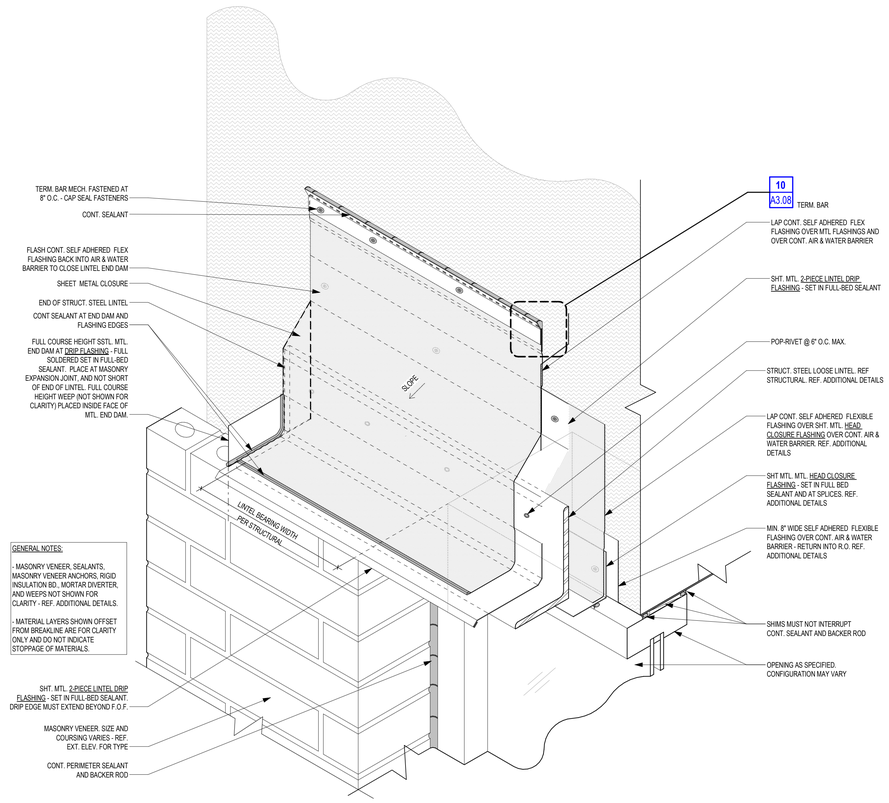
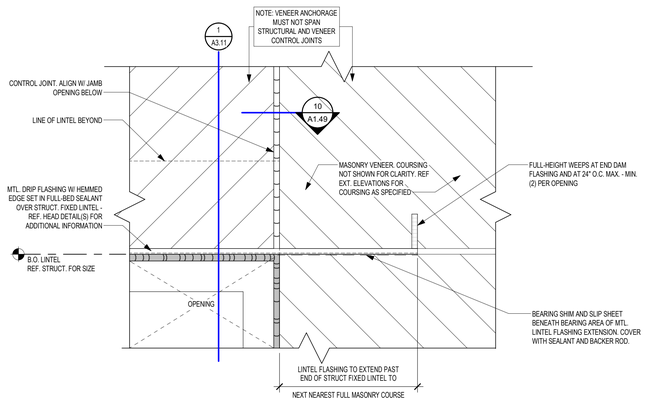


5 TYPICAL LOOSE LINTEL EXTERIOR ELEVATION OPTION 1 - MASONRY VENEER
3" = 1'-0"



2 TYIPCAI STOREFRONT HEAD WITH LOOSE LINTEL AXON - MASONRY VENEER
3" = 1'-0"



4 TYPICAL FIXED LINTEL EXTERIOR ELEVATION - MASONRY VENEER
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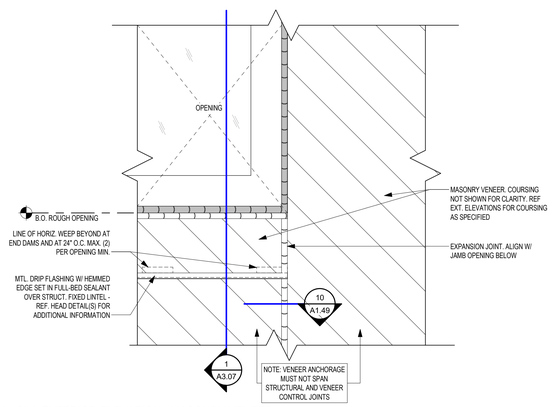
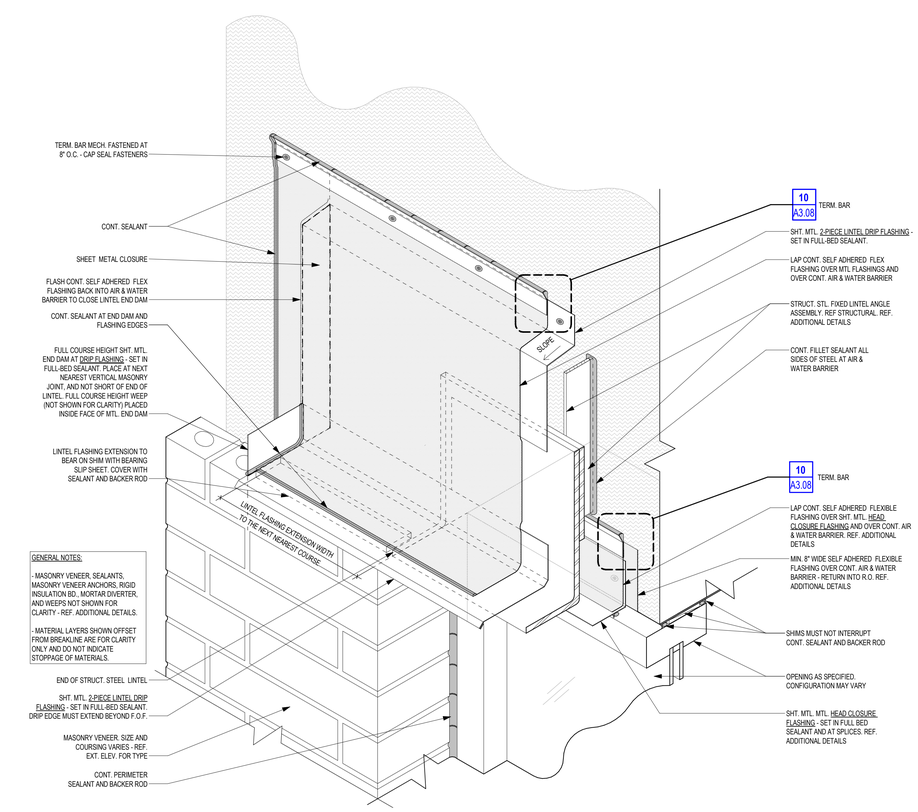


3 TYPICAL SILL EXTERIOR ELEVATION - MASONRY VENEER
3" = 1'-0"



1 TYPICAL STOREFRONT HEAD WITH FIXED LINTEL AXON - MASONRY VENEER
3" = 1'-0"

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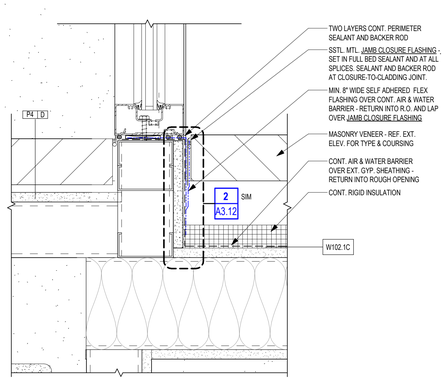
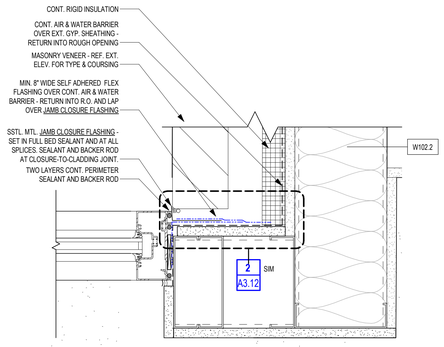
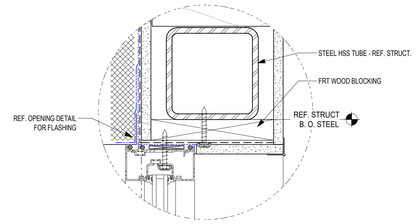


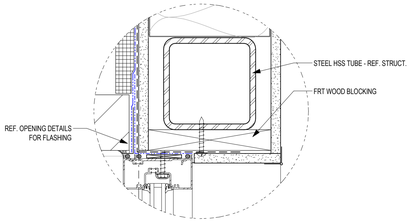
9 STOREFRONT JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



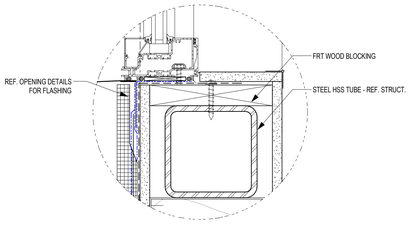
8 STOREFRONT JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



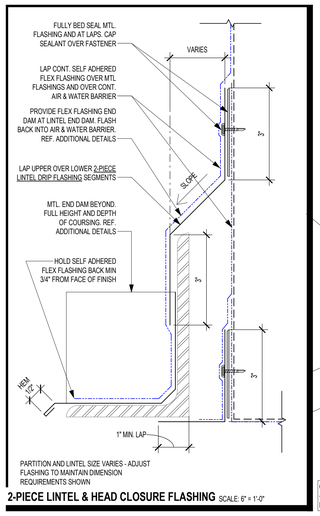
7 TYPICAL STOREFRONT HEAD WITH HSS STRUCTURE
3" = 1'-0"



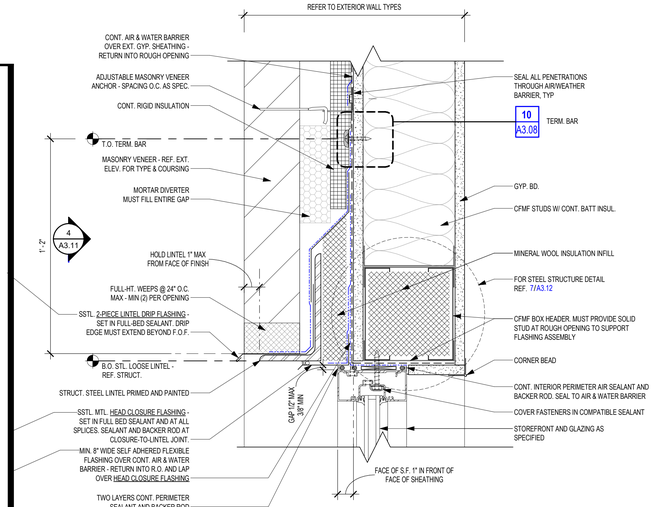
6 TYPICAL STOREFRONT JAMB WITH HSS STRUCTURE
3" = 1'-0"



5 TYPICAL STOREFRONT SILL WITH HSS STRUCTURE
3" = 1'-0"



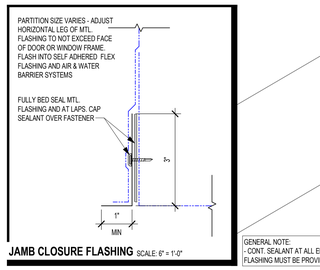
2-PIECE LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



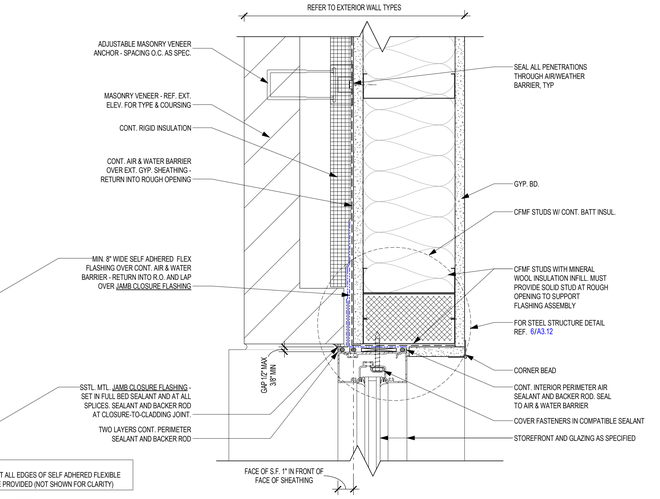
GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

LINTEL USE WHERE PERMITTED BY STRUCTURAL REFER AND COORDINATE WITH STRUCTURAL FOR STEEL LINTEL ATTACHMENT CONDITION PER OPENING

3 TYPICAL STOREFRONT HEAD WITH LOOSE LINTEL - MASONRY VENEER & CFMF
3" = 1'-0"



JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTE:
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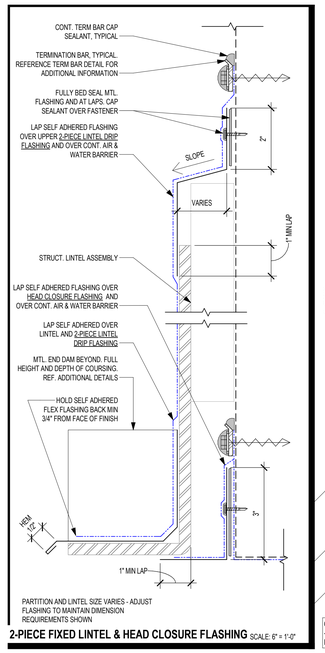
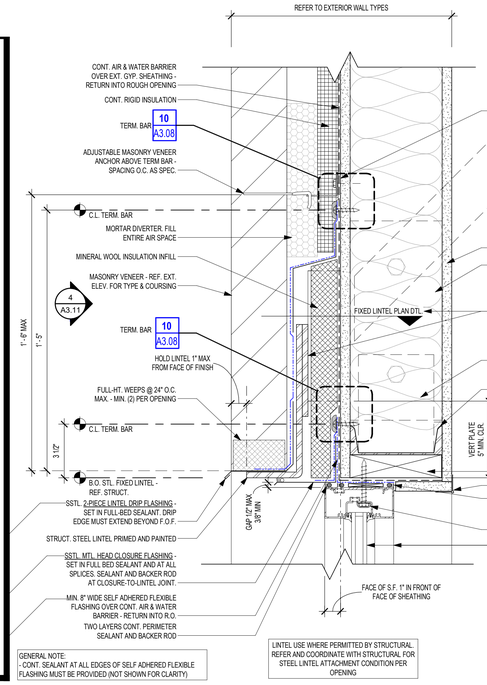
2 TYPICAL STOREFRONT JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



2-PIECE FIXED LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTE:
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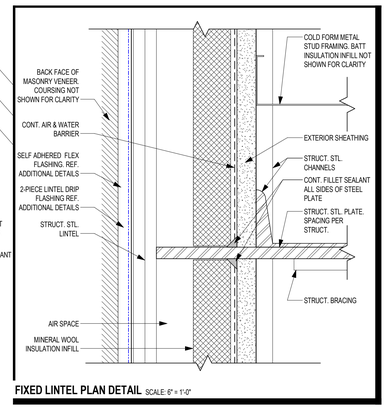
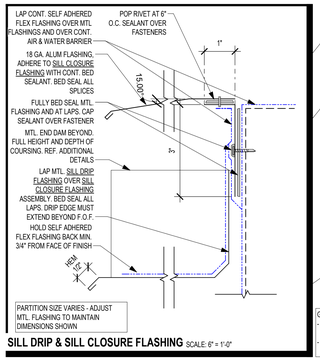
LINTEL USE WHERE PERMITTED BY STRUCTURAL REFER AND COORDINATE WITH STRUCTURAL FOR STEEL LINTEL ATTACHMENT CONDITION PER OPENING

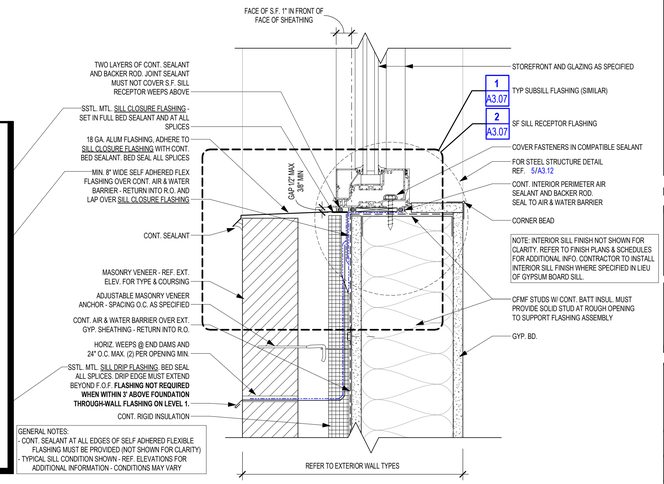
4 TYPICAL STOREFRONT HEAD WITH FIXED LINTEL - MASONRY VENEER & CFMF
3" = 1'-0"



FIXED LINTEL PLAN DETAIL SCALE: 6" = 1'-0"



SILL DRIP & SILL CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTES:
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1 TYPICAL STOREFRONT SILL - MASONRY VENEER & CFMF
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CARTLIN MUNCH
29 814
STATE OF TEXAS
7/15/2026

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TYP. MASONRY VENEER/CFMF/SF DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A3.12
Drawn By: KR	
Date: 07.15.26	

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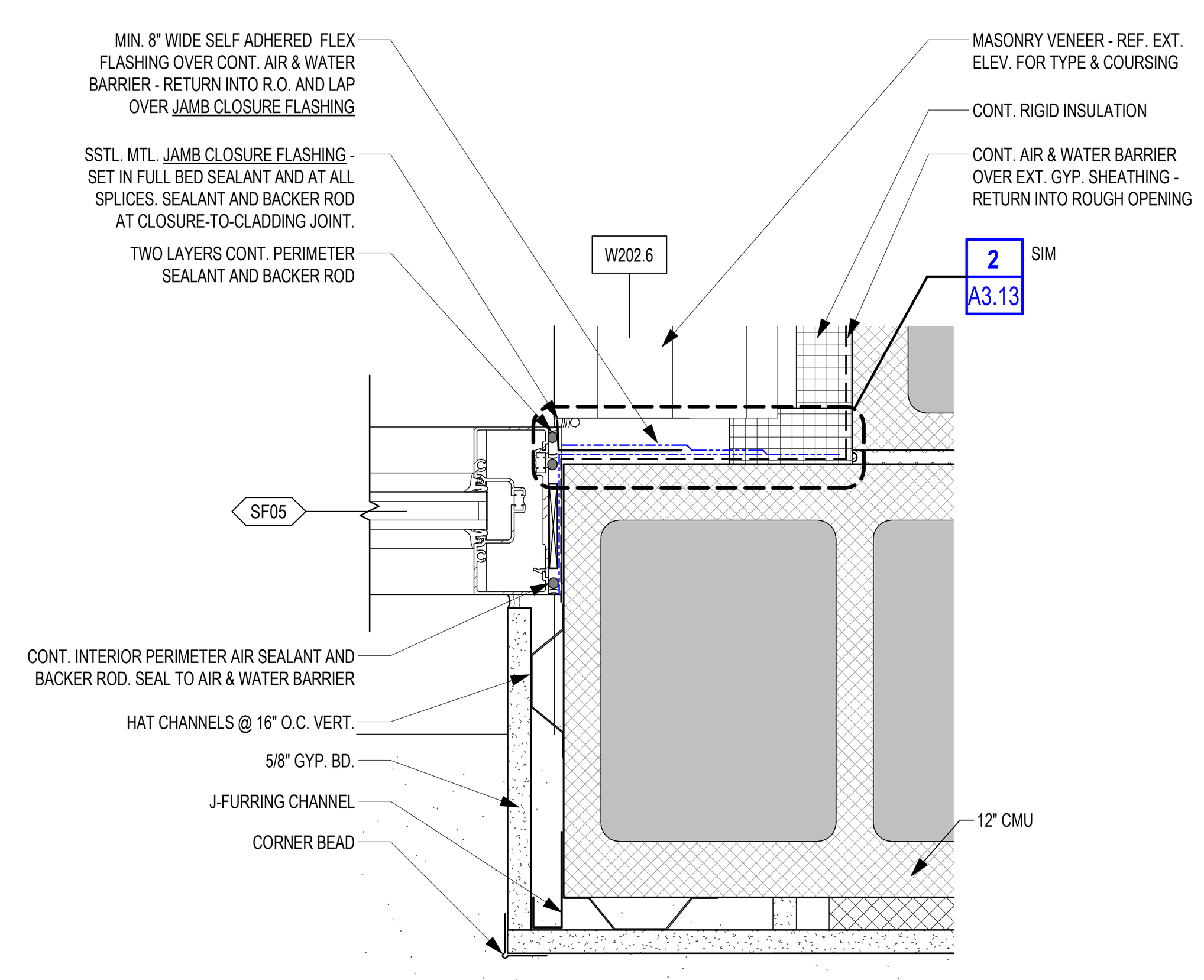
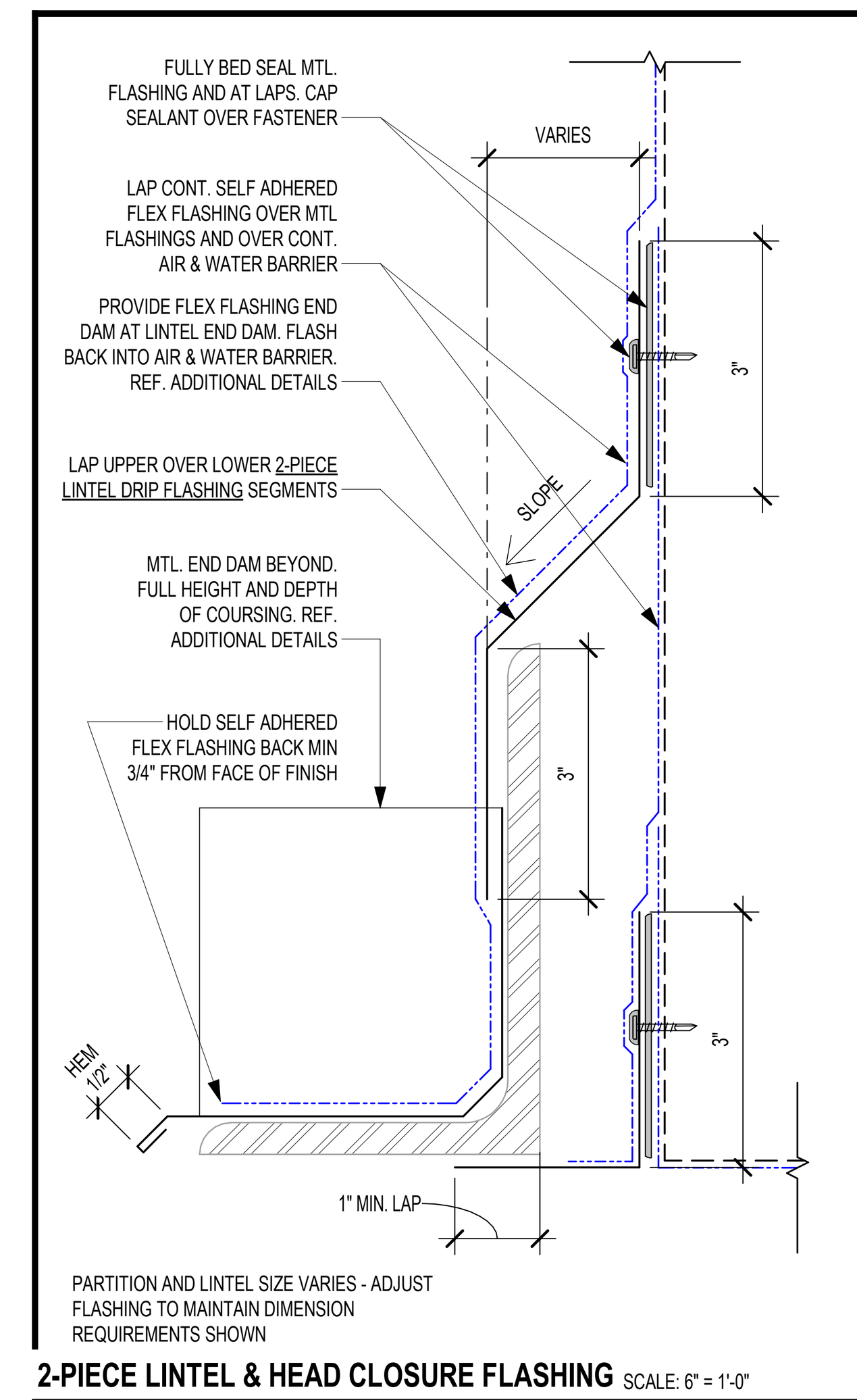
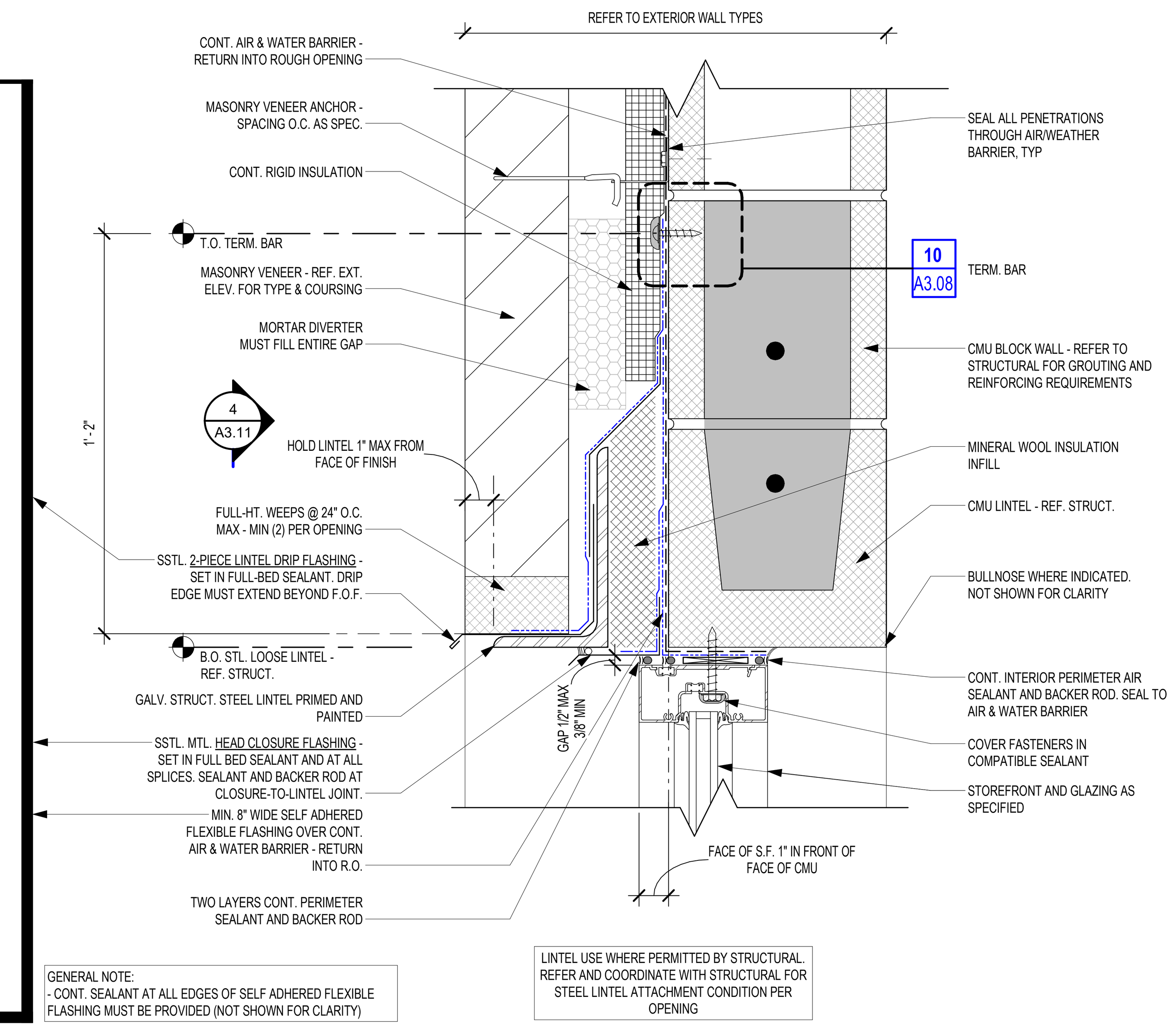


5 STOREFRONT JAMB - MASONRY VENEER & HC+GYP
3" = 1'-0"   BACK REF: A1.41



2-PIECE LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



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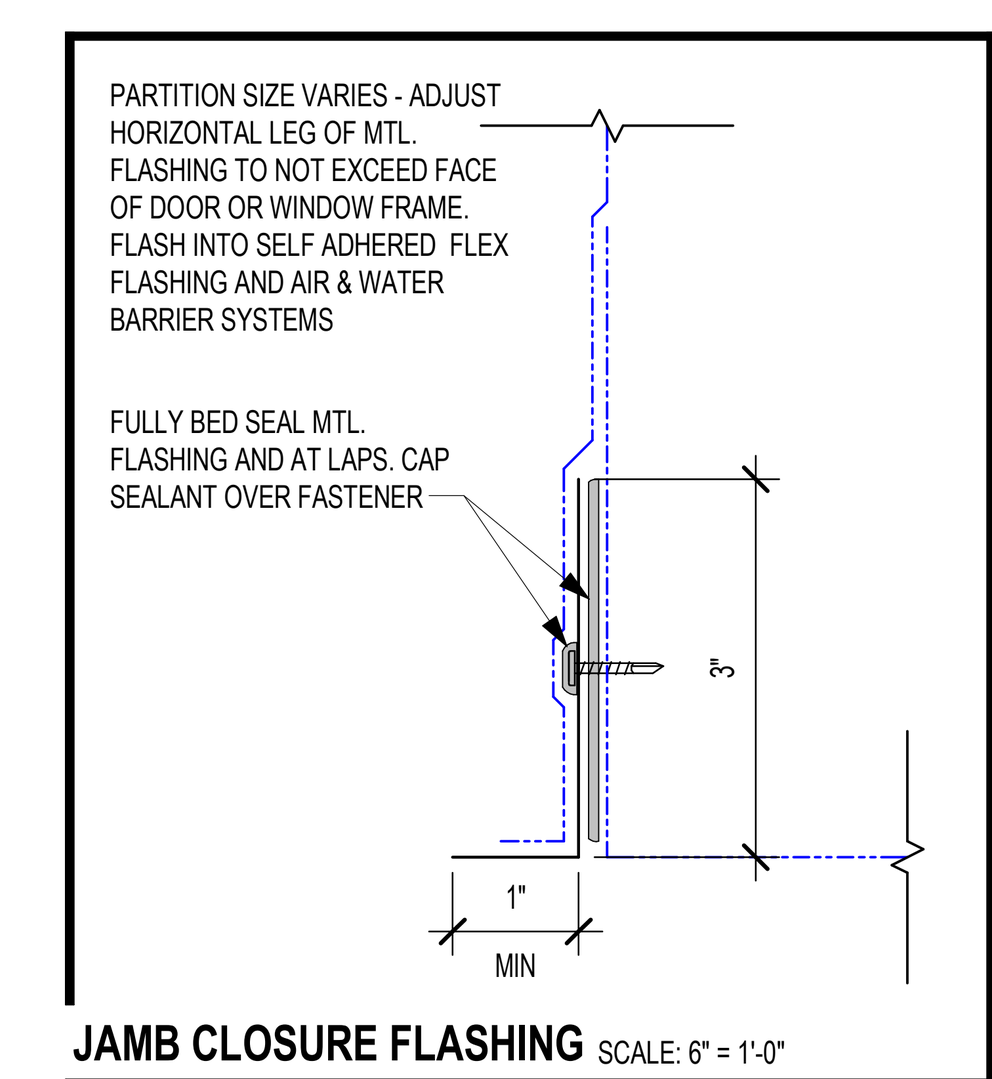
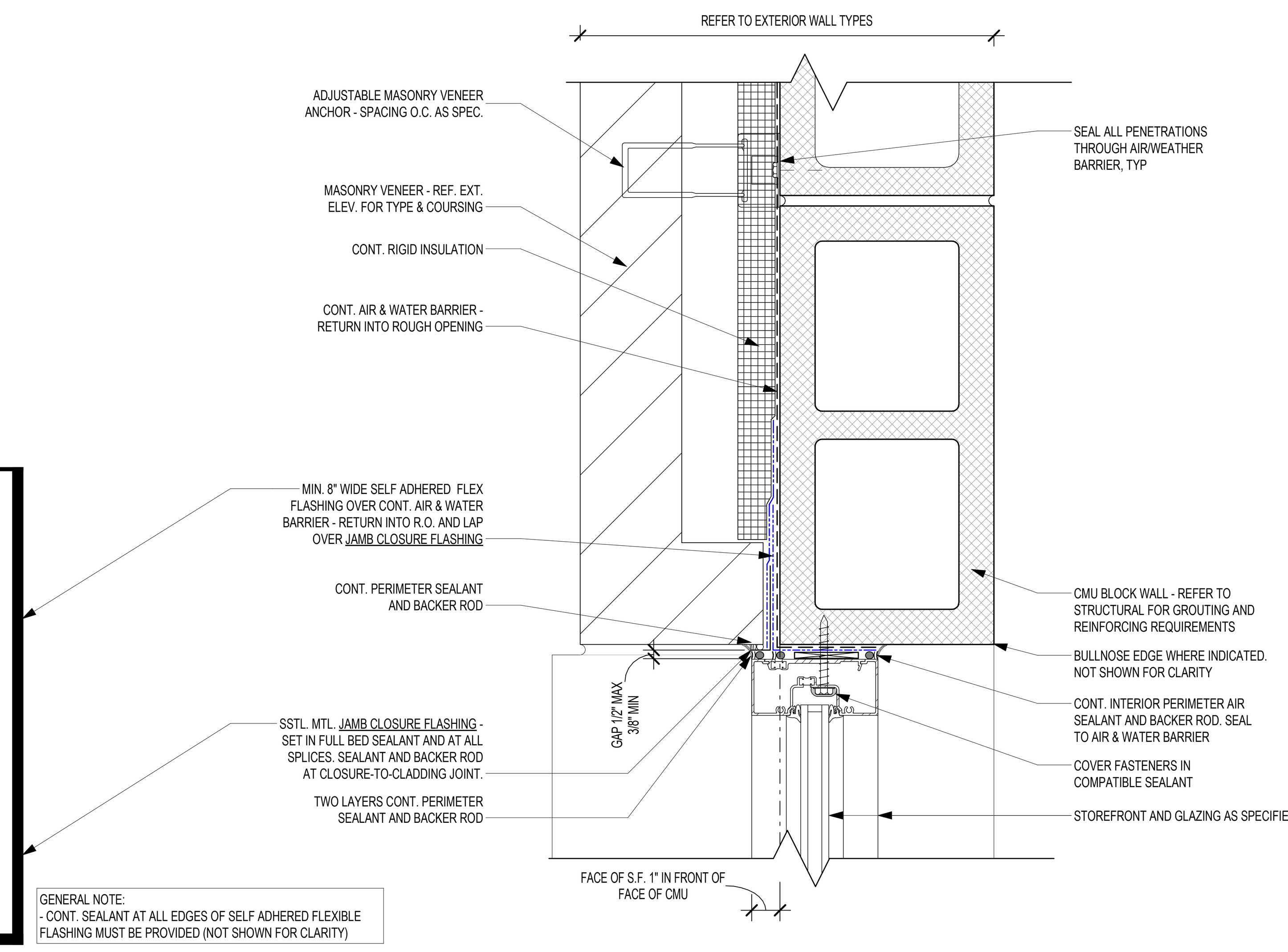
3 TYPICAL STOREFRONT HEAD WITH LOOSE LINTEL - MASONRY VENEER & CMU
3" = 1'-0"



JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTE:
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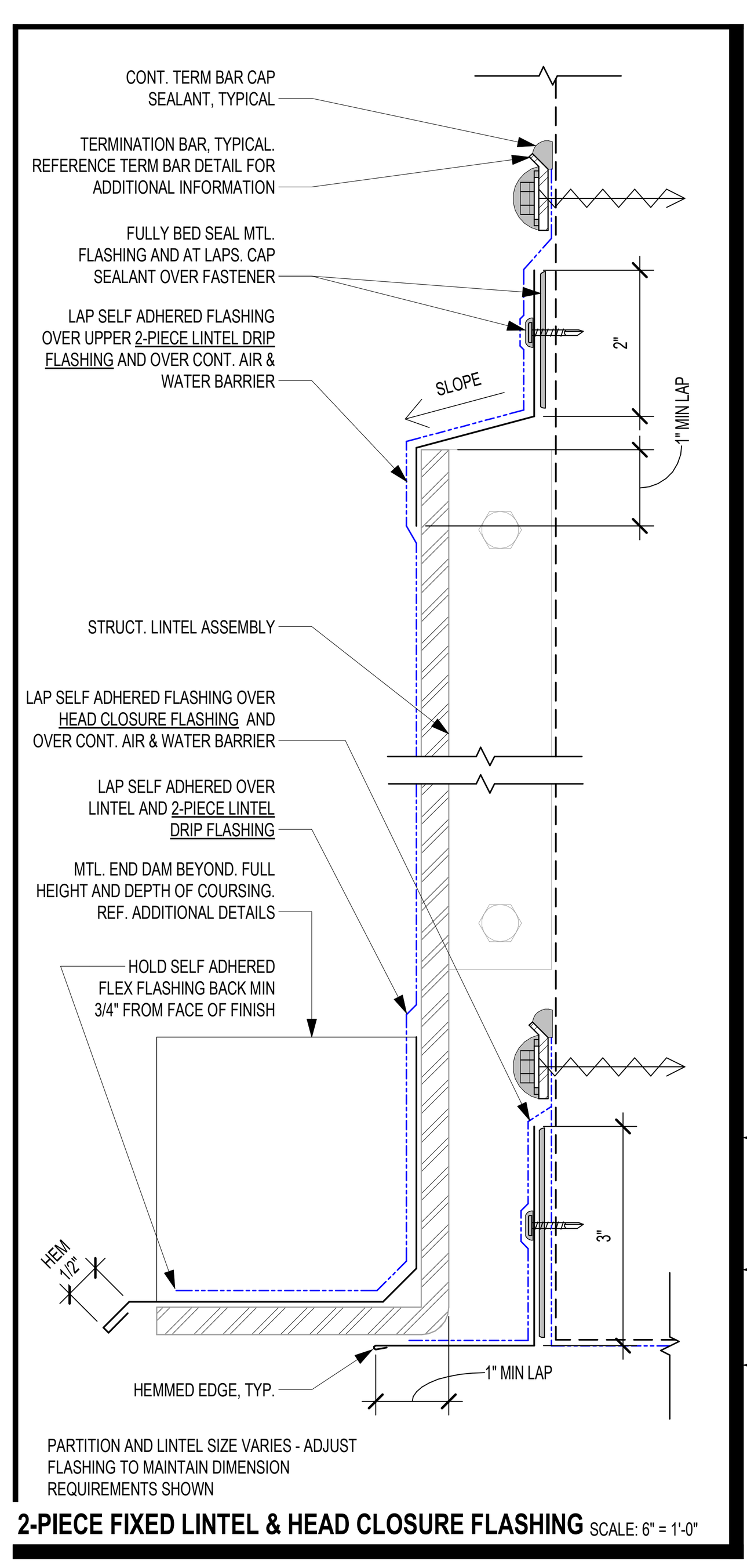
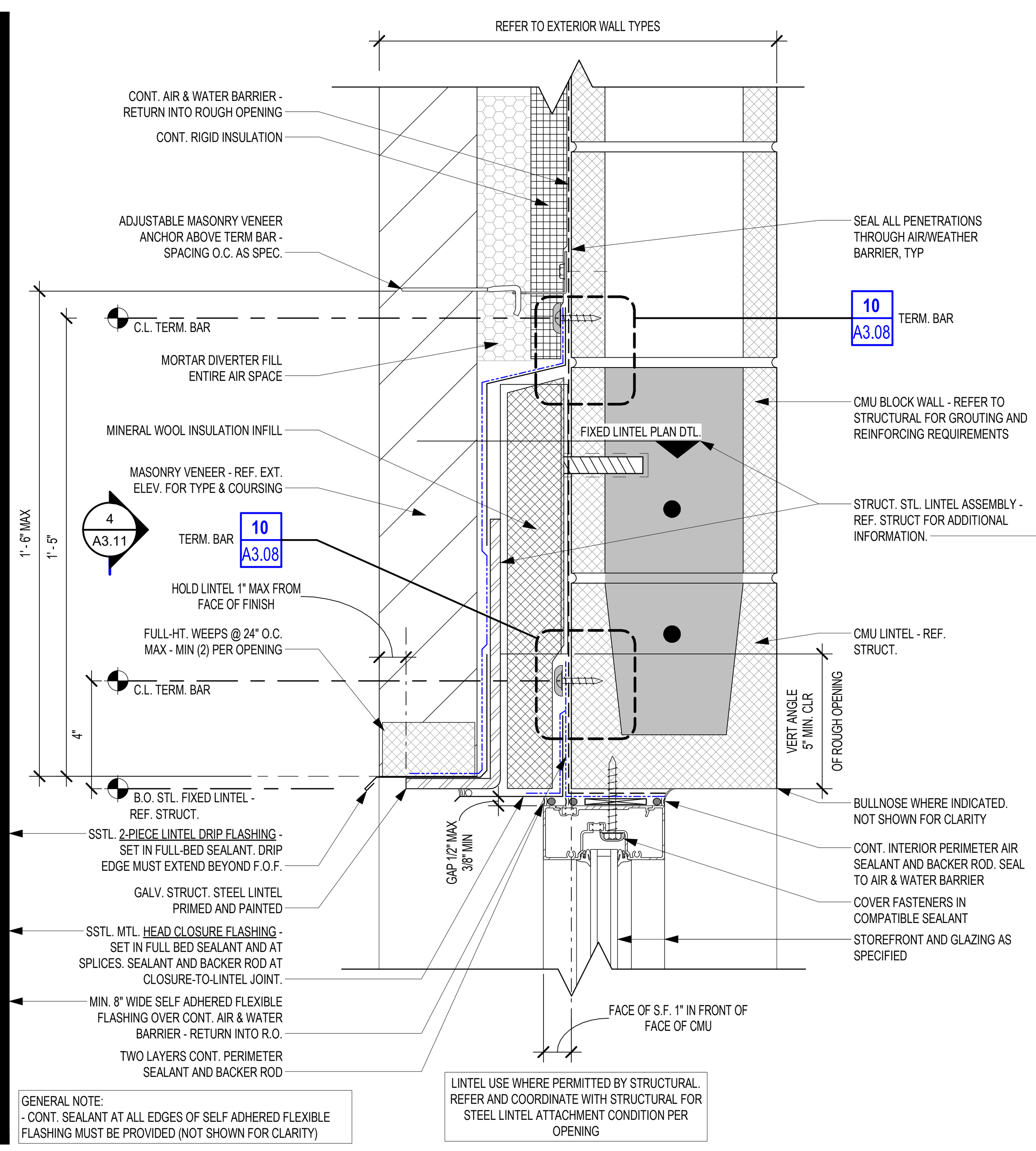
2 TYPICAL STOREFRONT JAMB - MASONRY VENEER & CMU
3" = 1'-0"



2-PIECE FIXED LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTE:
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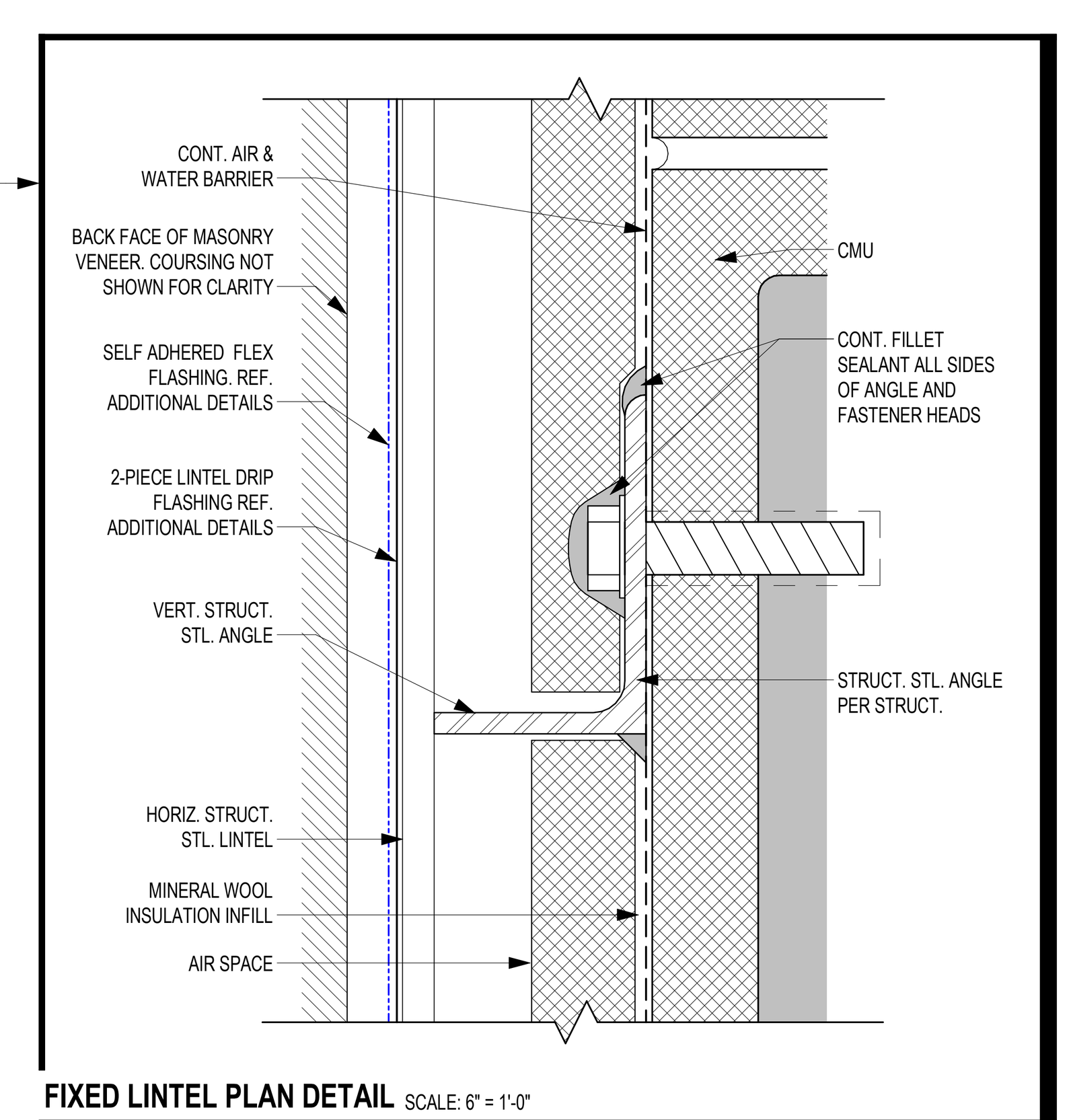
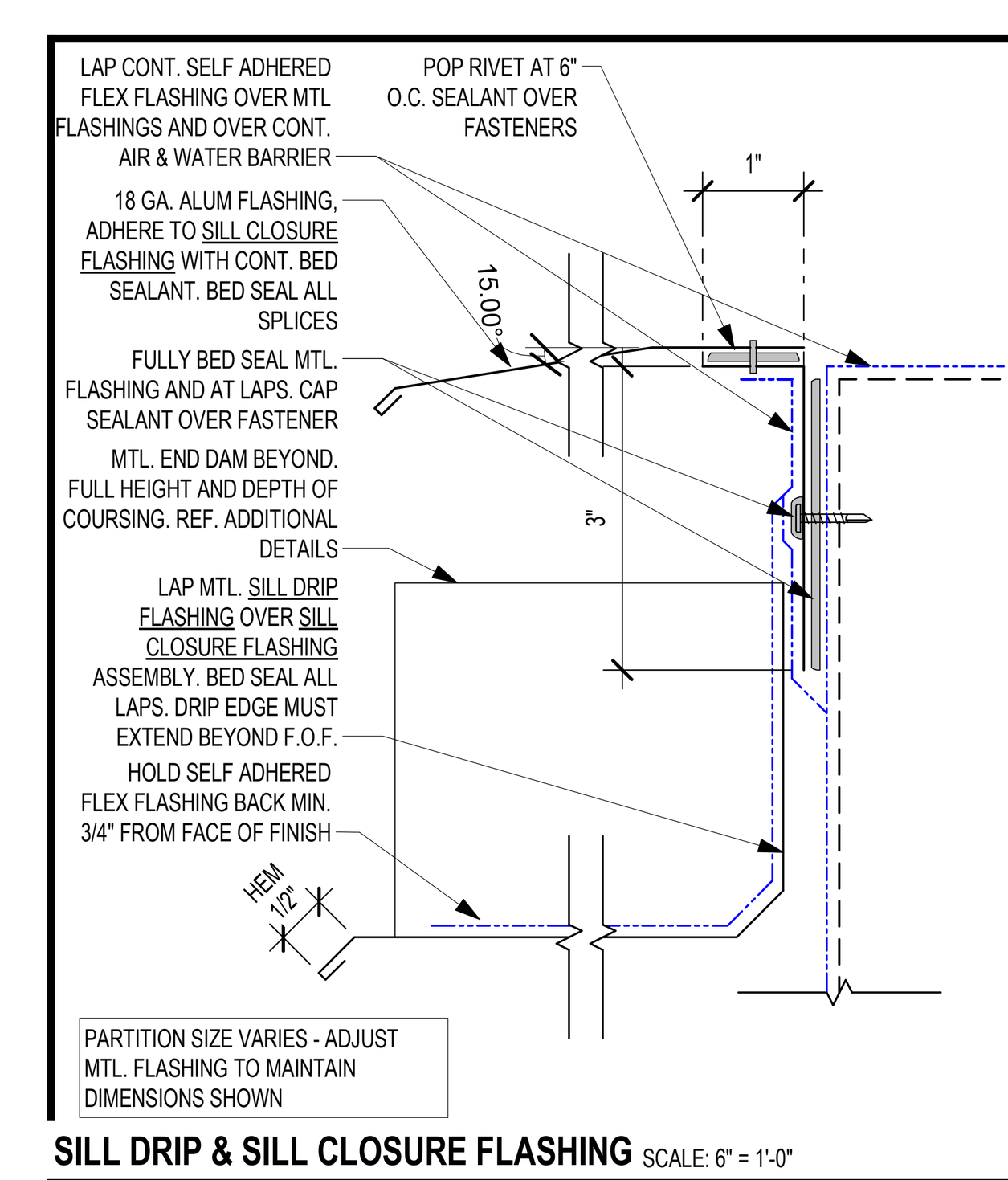
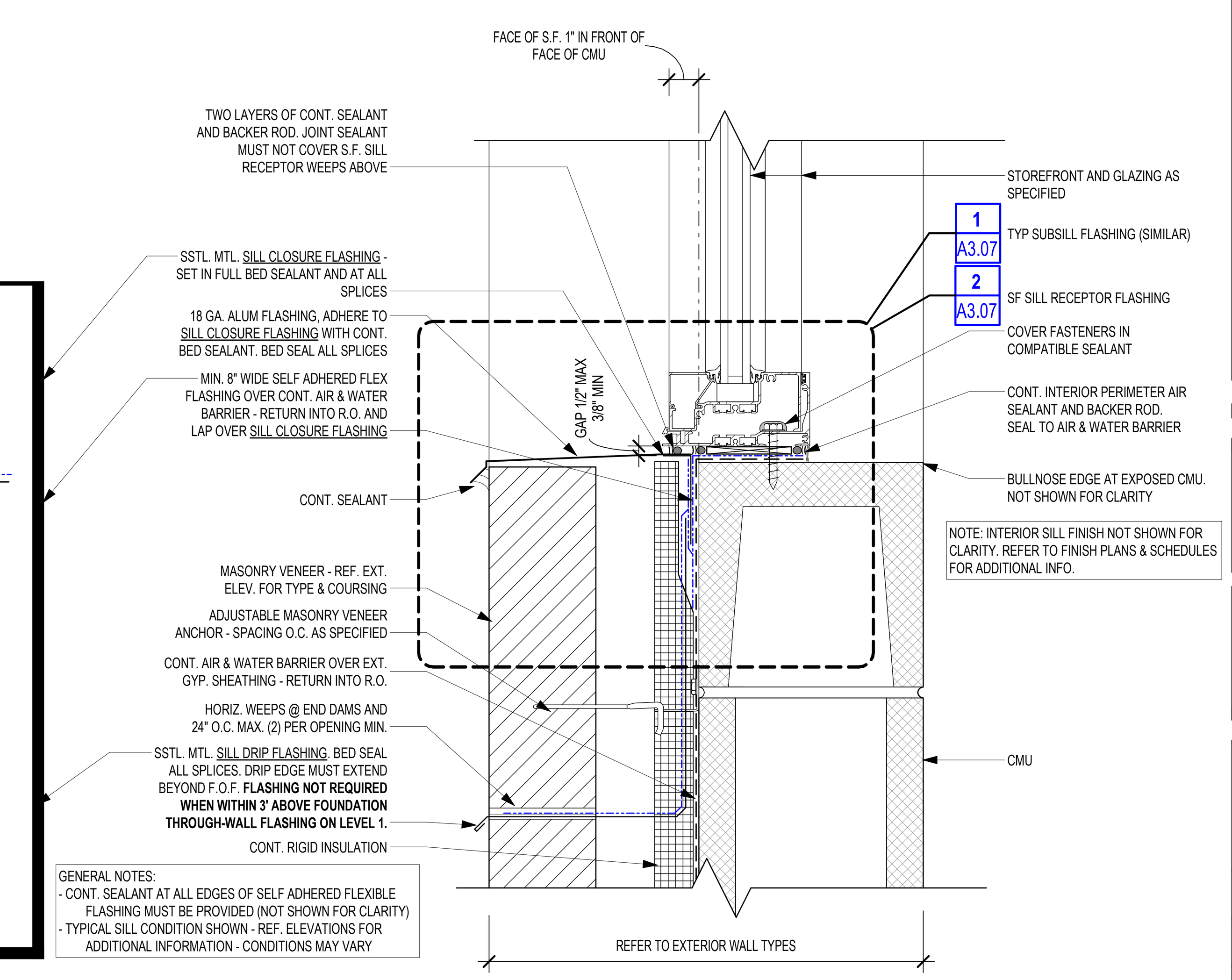


FIXED LINTEL PLAN DETAIL SCALE: 6" = 1'-0"

4 TYPICAL STOREFRONT HEAD WITH FIXED LINTEL - MASONRY VENEER & CMU
3" = 1'-0"



SILL DRIP & SILL CLOSURE FLASHING SCALE: 6" = 1'-0"



NOTE: INTERIOR SILL FINISH NOT SHOWN FOR CLARITY. REFER TO FINISH PLANS & SCHEDULES FOR ADDITIONAL INFO.

GENERAL NOTES:
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1 TYPICAL STOREFRONT SILL - MASONRY VENEER & CMU
3" = 1'-0"

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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT · CAITLIN MUNCH · 29154 · STATE OF TEXAS
7/15/2026

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TYP. MASONRY VENEER/CMU/SF DETAILS

PACKAGE   VOLUME 01

Job No. 00802-04-01	Sheet No.
Drawn By: KR	A3.13
Date: 07.15.26	

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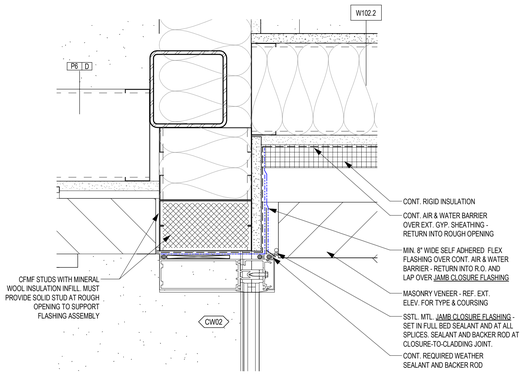
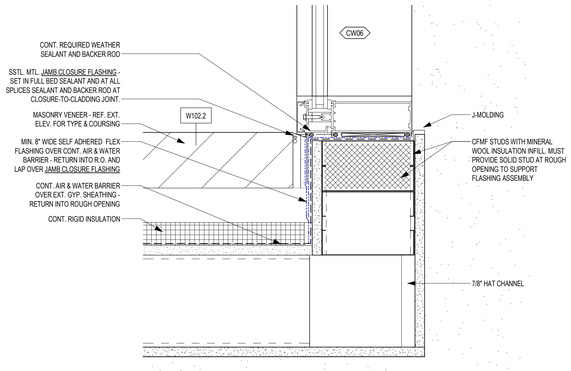
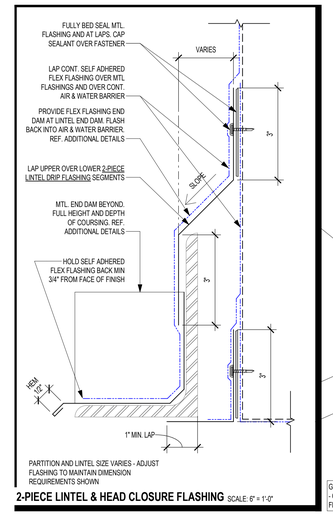
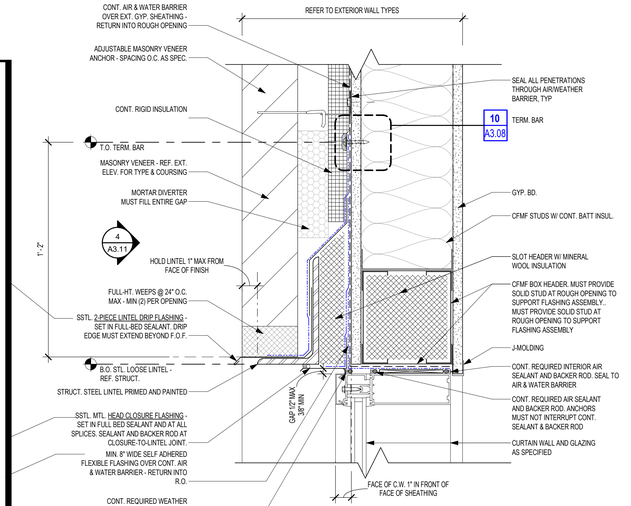






2-PIECE LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



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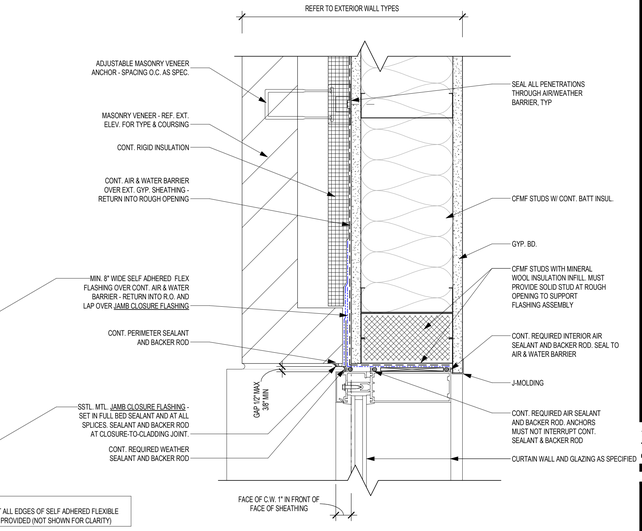
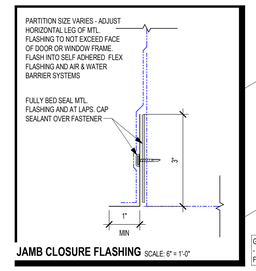
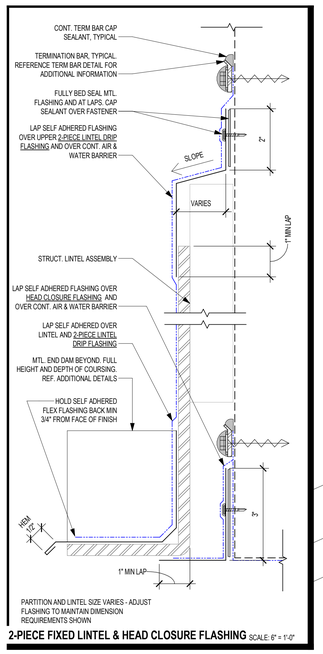
3 TYPICAL CURTAIN WALL HEAD WITH LOOSE LINTEL - MASONRY VENEER & CFMF
3" = 1'-0"



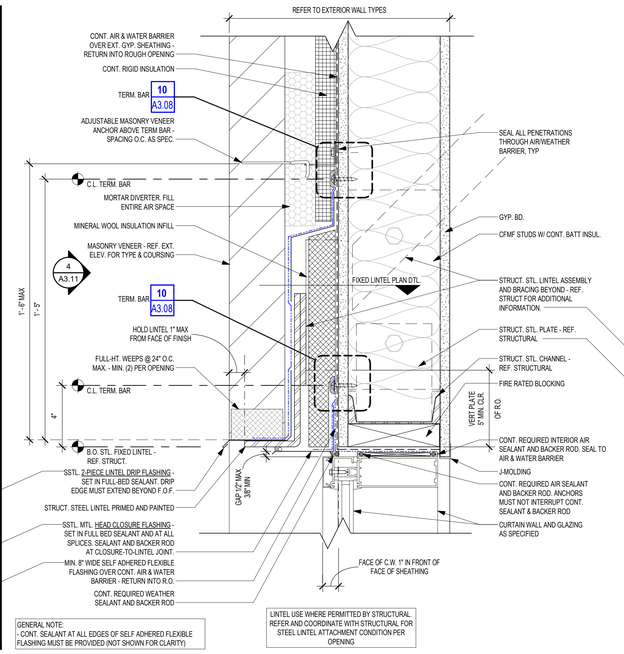


JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"

2 TYPICAL CURTAIN WALL JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



2-PIECE FIXED LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



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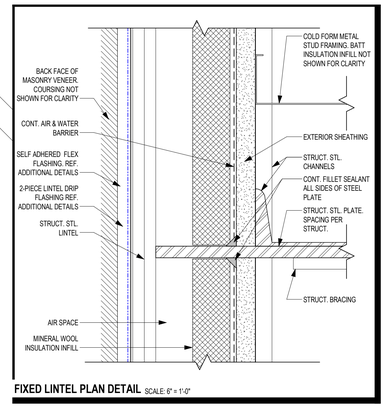
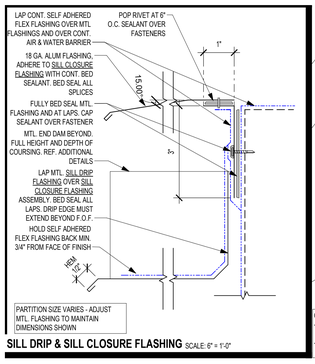
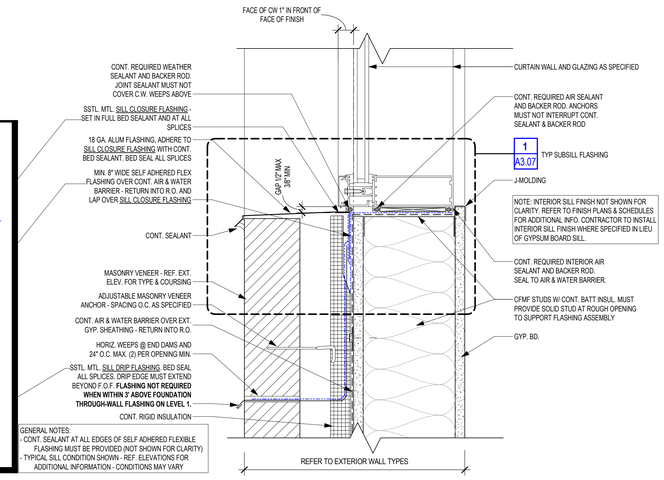
4 TYPICAL CURTAIN WALL HEAD WITH FIXED LINTEL - MASONRY VENEER & CFMF
3" = 1'-0"



FIXED LINTEL PLAN DETAIL SCALE: 6" = 1'-0"



SILL DRIP & SILL CLOSURE FLASHING SCALE: 6" = 1'-0"



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7/15/2026

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TYP. MASONRY VENEER/CFMF/CW DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A3.14
Drawn By: KR	
Date: 07.15.26	

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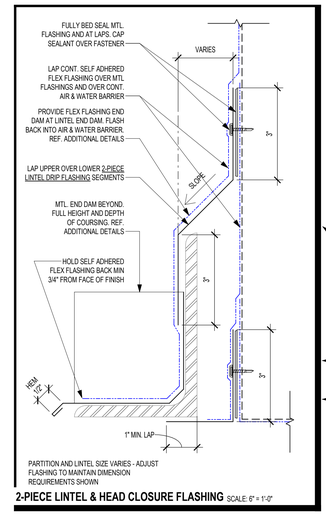
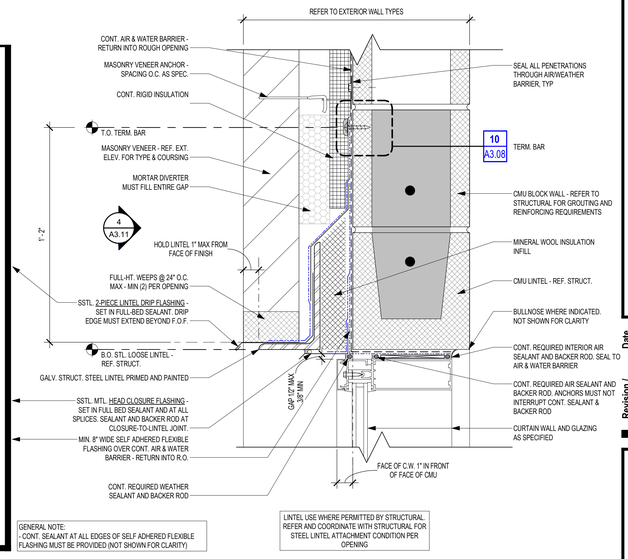


2-PIECE LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



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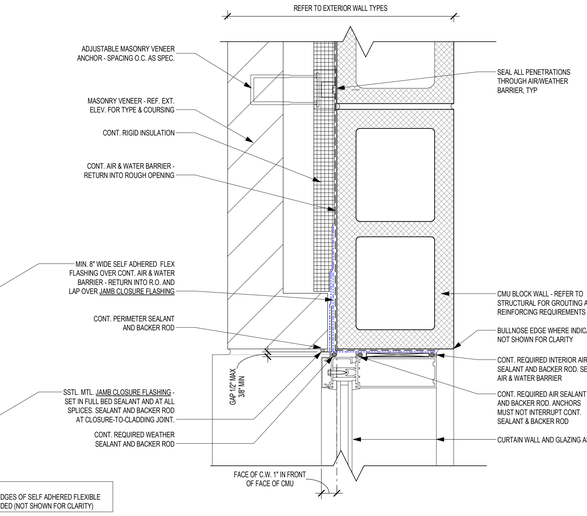
3 TYPICAL CURTAIN WALL HEAD WITH LOOSE LINTEL - MASONRY VENEER & CMU
3" = 1'-0"



JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"

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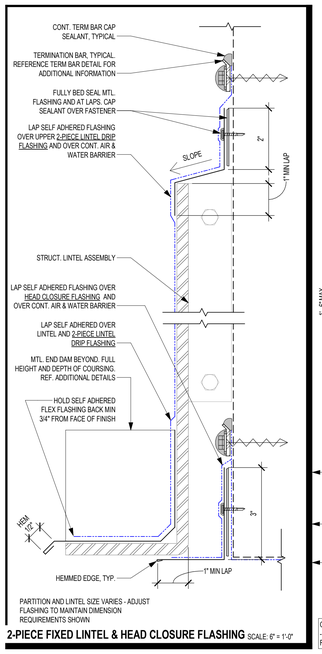
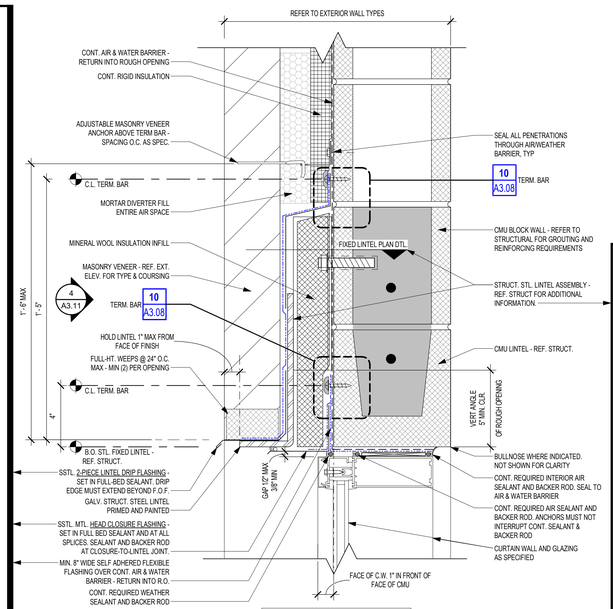
3" = 1'-0"



2-PIECE FIXED LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



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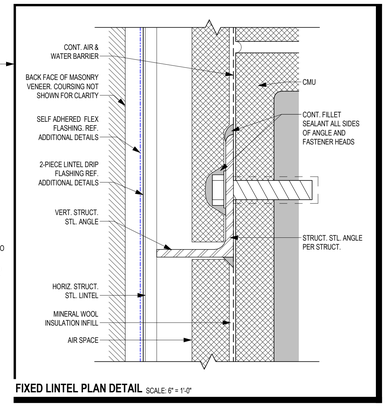
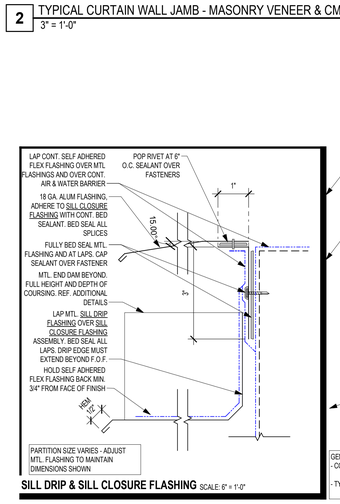
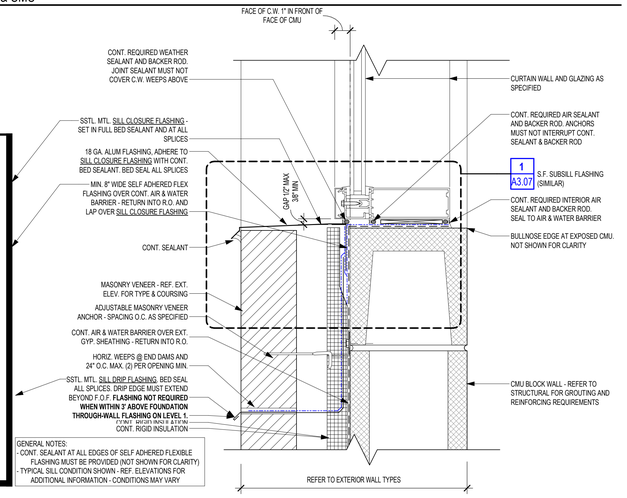
4 TYPICAL CURTAIN WALL HEAD WITH FIXED LINTEL - MASONRY VENEER & CMU
3" = 1'-0"



FIXED LINTEL PLAN DETAIL SCALE: 6" = 1'-0"



SILL DRIP & SILL CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTES:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)
- TYPICAL SILL CONDITION SHOWN - REF. ELEVATIONS FOR ADDITIONAL INFORMATION - CONDITIONS MAY VARY

1 TYPICAL CURTAIN WALL SILL - MASONRY VENEER & CMU
3" = 1'-0"

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TYP. MASONRY VENEER/CMU/CW DETAILS

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Job No. 00802-04-01
Sheet No. A3.15
Drawn By: KR
Date: 07.15.26

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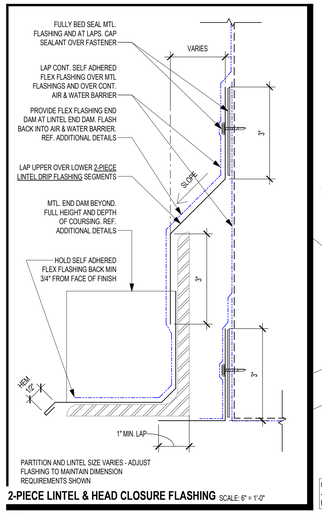
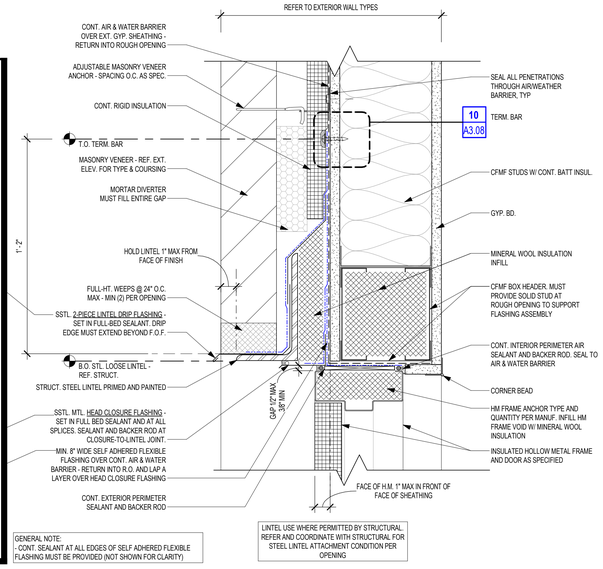


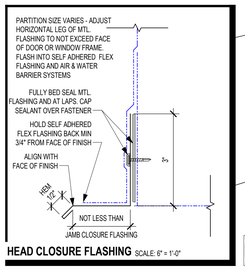
2-PIECE LINTEL & HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"



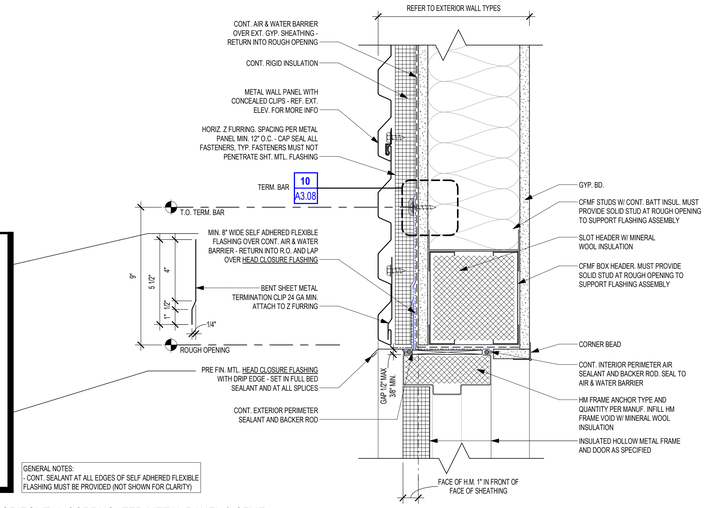
GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

LINTEL USE WHERE PERMITTED BY STRUCTURAL REFER AND COORDINATE WITH STRUCTURAL FOR STEEL LINTEL ATTACHMENT CONDITION PER OPENING

4 TYPICAL HOLLOW METAL HEAD WITH LOOSE LINTEL- MASONRY VENEER & CFMF
3" = 1'-0"

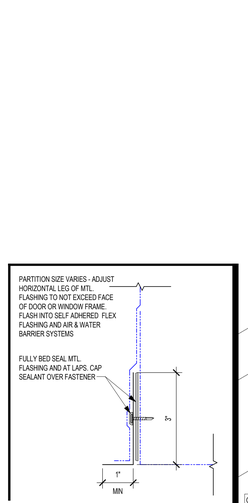


HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"

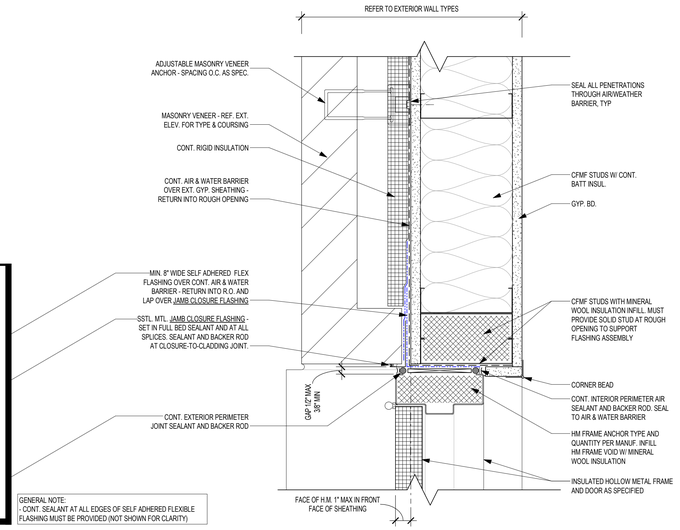


GENERAL NOTES:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

2 TYPICAL HOLLOW METAL HEAD - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

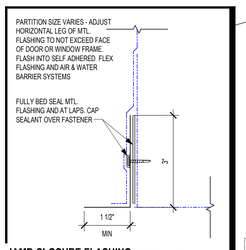


JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"

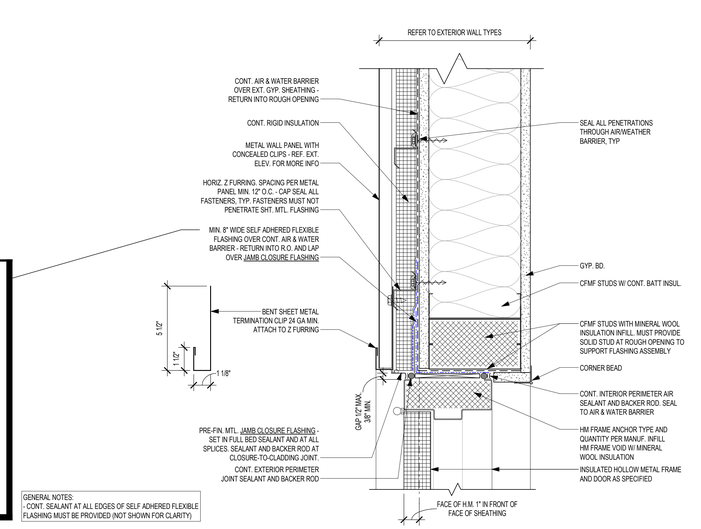


GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

3 TYPICAL HOLLOW METAL JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTES:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

1 TYPICAL HOLLOW METAL JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

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TYP. MASONRY VENEER & METAL PANEL/CFMF/HM DETAILS

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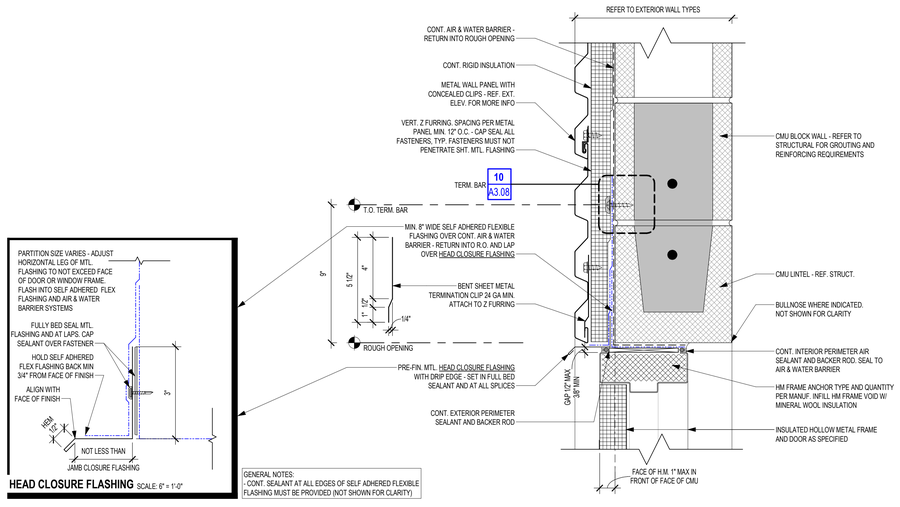
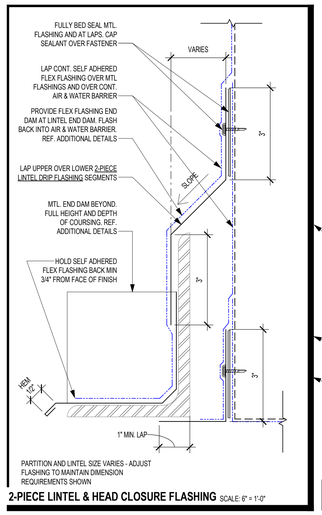
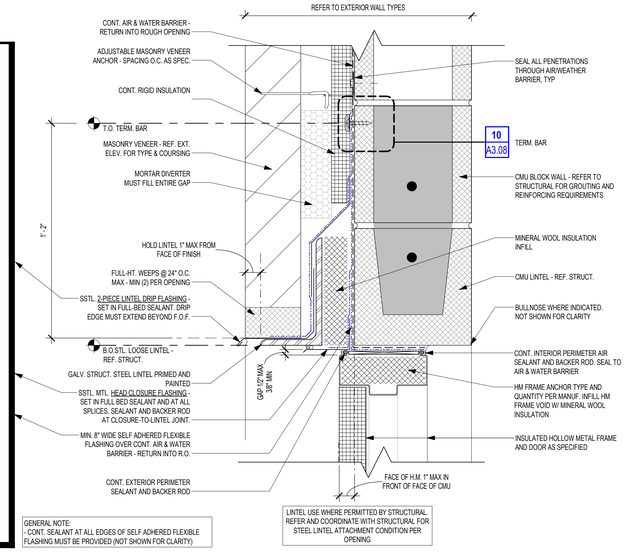
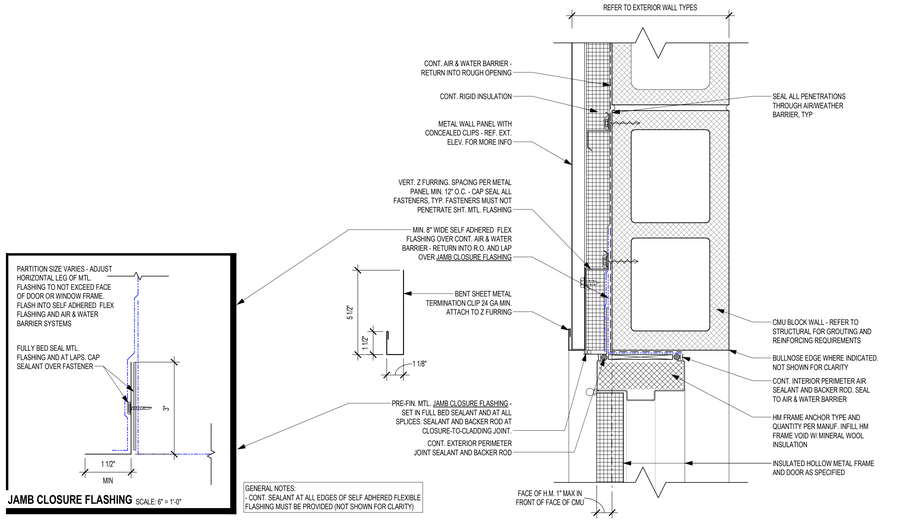


4 TYPICAL HOLLOW METAL HEAD - HORIZONTAL CORRUGATED METAL PENAL & CMU
3" = 1'-0"

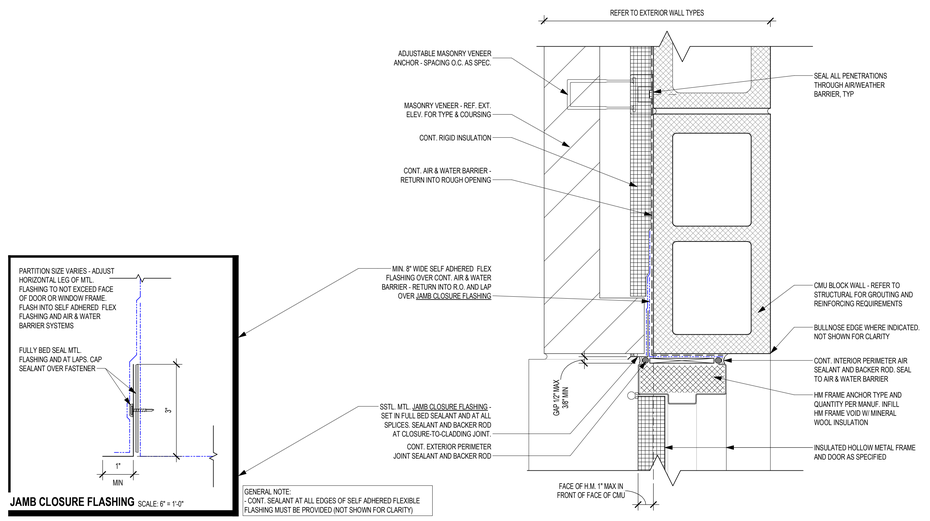




2 TYPICAL HOLLOW METAL HEAD WITH LOOSE LINTEL - MASONRY VENEER & CMU
3" = 1'-0"



3 TYPICAL HOLLOW METAL JAMB - HORIZONTAL CORRUGATED METAL PANEL & CMU
3" = 1'-0"



1 TYPICAL HOLLOW METAL JAMB - MASONRY VENEER & CMU
3" = 1'-0"

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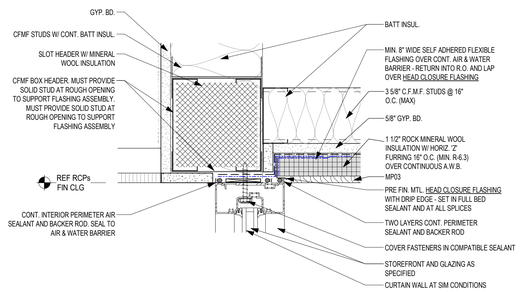
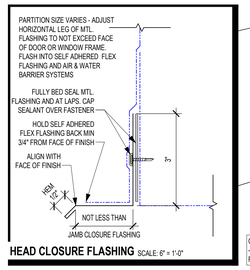
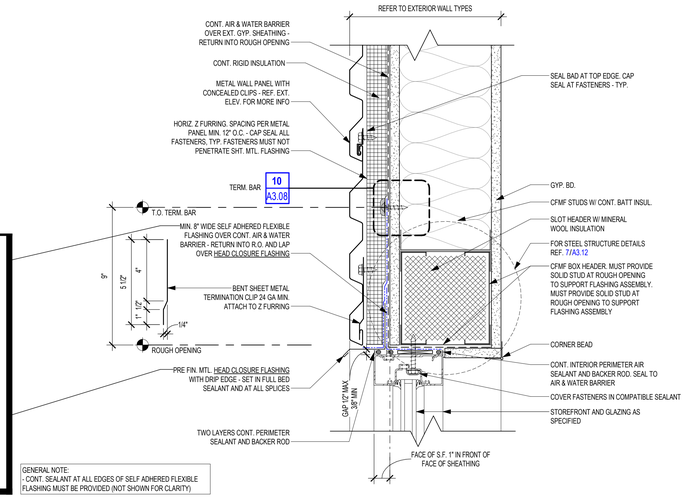


6 STOREFRONT HEAD - METAL PANEL SOFFIT
3" = 1'-0"

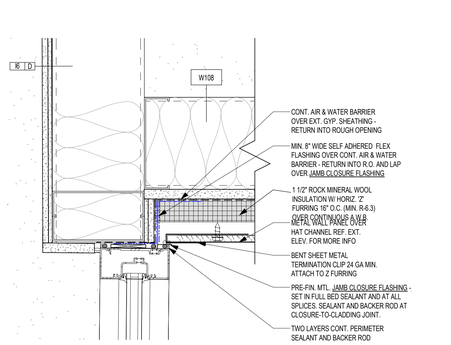


HEAD CLOSURE FLASHING SCALE: 6" = 1'-0"

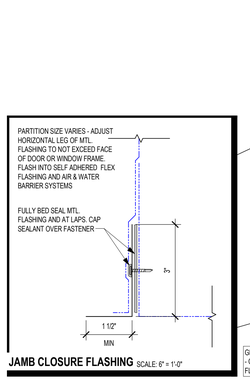


GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

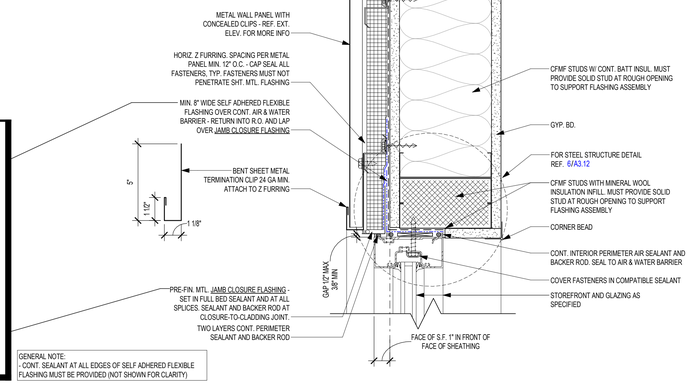
3 TYPICAL STOREFRONT HEAD - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"



5 STOREFRONT JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

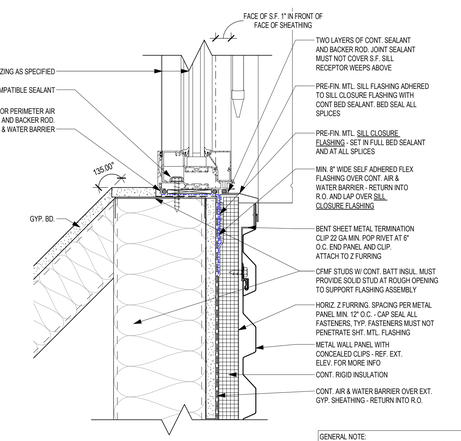


JAMB CLOSURE FLASHING SCALE: 6" = 1'-0"



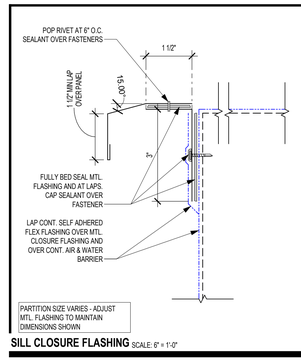
GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

2 TYPICAL STOREFRONT JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

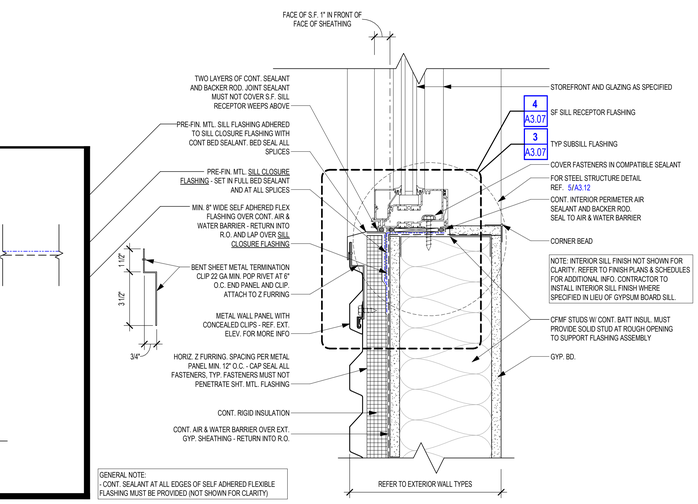


GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

4 STOREFRONT SILL AT SHADOWBOX
3" = 1'-0" BACK REF: A6.08



SILL CLOSURE FLASHING SCALE: 6" = 1'-0"



GENERAL NOTE:
- CONT. SEALANT AT ALL EDGES OF SELF ADHERED FLEXIBLE FLASHING MUST BE PROVIDED (NOT SHOWN FOR CLARITY)

1 TYPICAL STOREFRONT SILL - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

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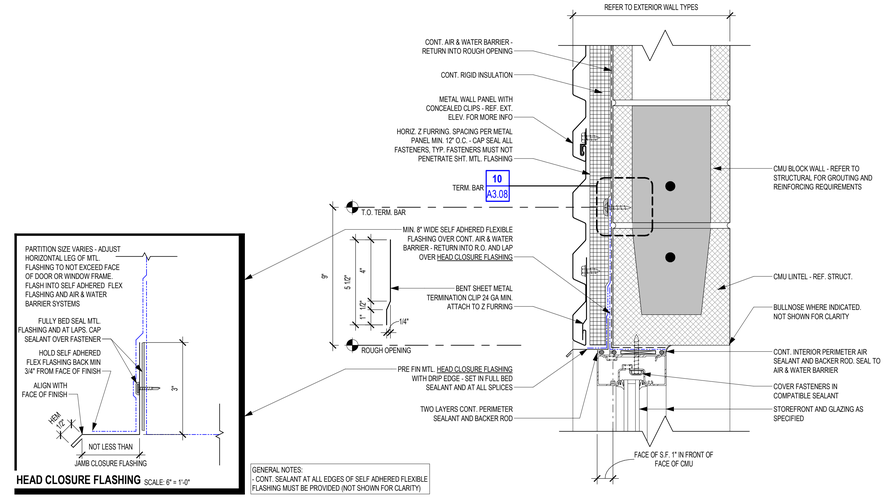
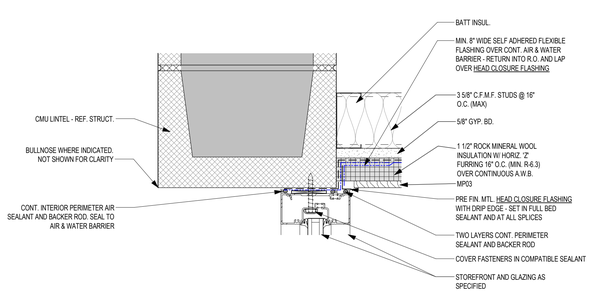
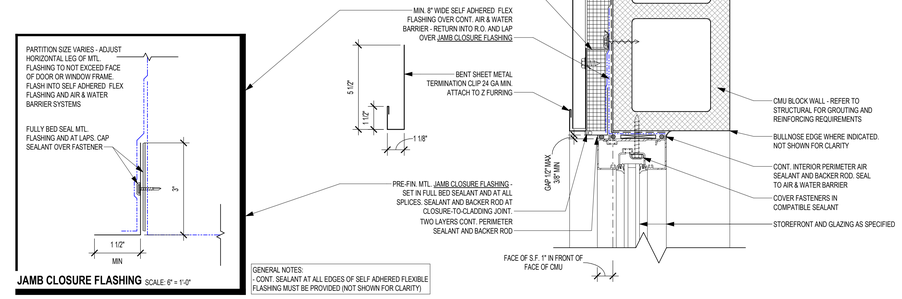


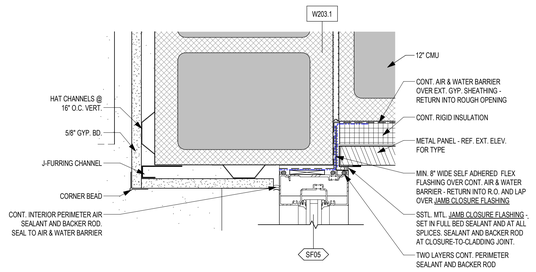
3 TYPICAL STOREFRONT HEAD - HORIZONTAL CORRUGATED METAL PANEL & CMU
3" = 1'-0"



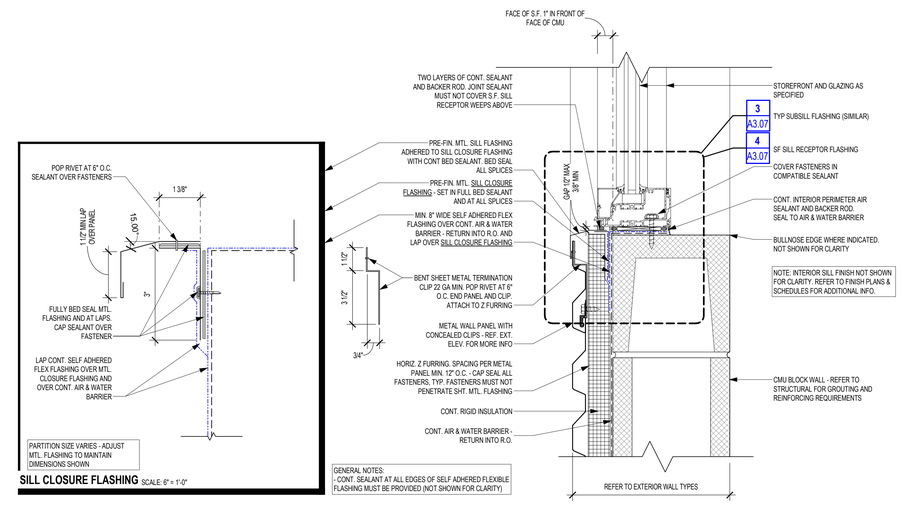
5 STOREFRONT HEAD - METAL PANEL SOFFIT
3" = 1'-0"



2 TYPICAL STOREFRONT JAMB - HORIZONTAL CORRUGATED METAL PANEL & CMU
3" = 1'-0"



4 STOREFRONT JAMB - METAL PANEL & HC+GYP
3" = 1'-0" BACK REF: A1.41



1 TYPICAL STOREFRONT SILL - HORIZONTAL CORRUGATED METAL PANEL & CMU
3" = 1'-0"

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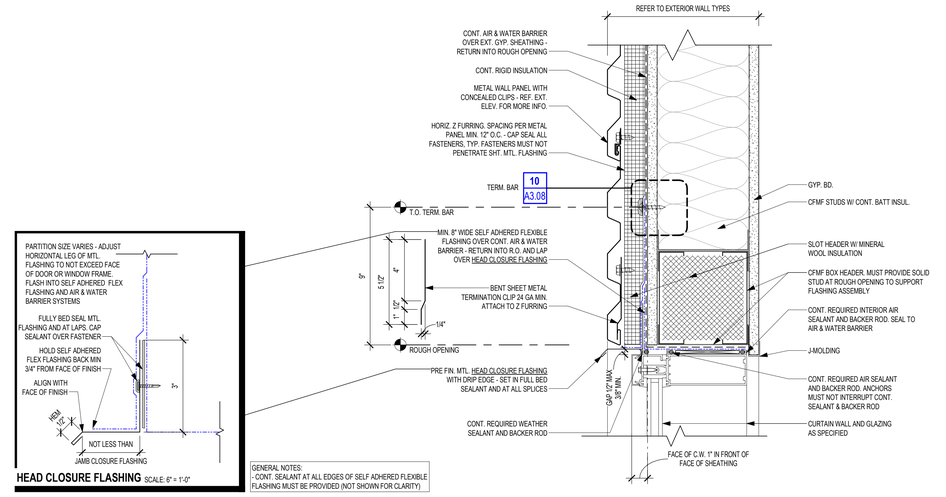
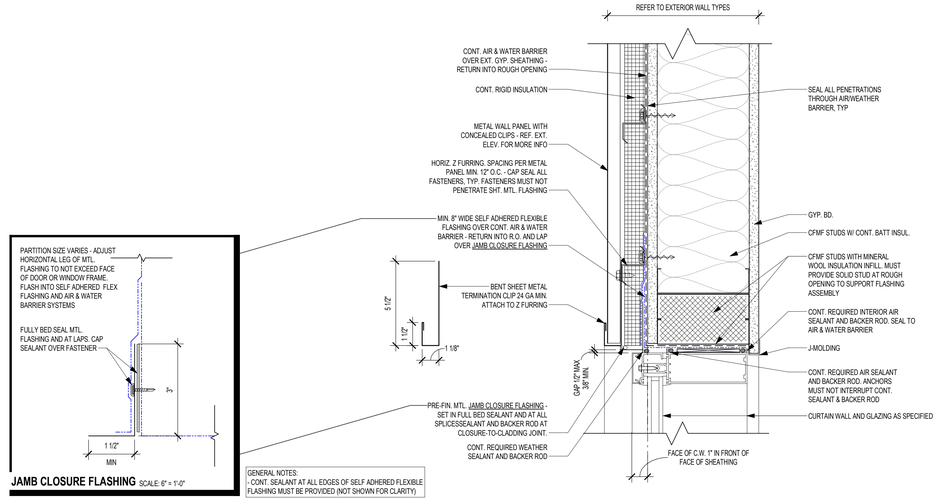
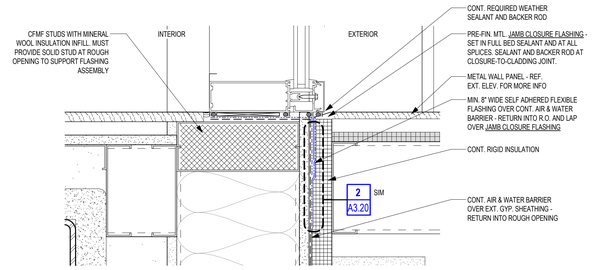


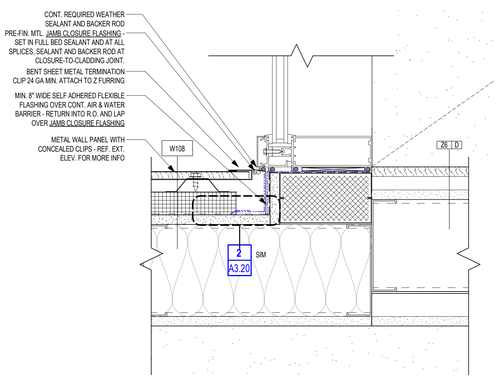
3 TYPICAL CURTAIN WALL HEAD - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"



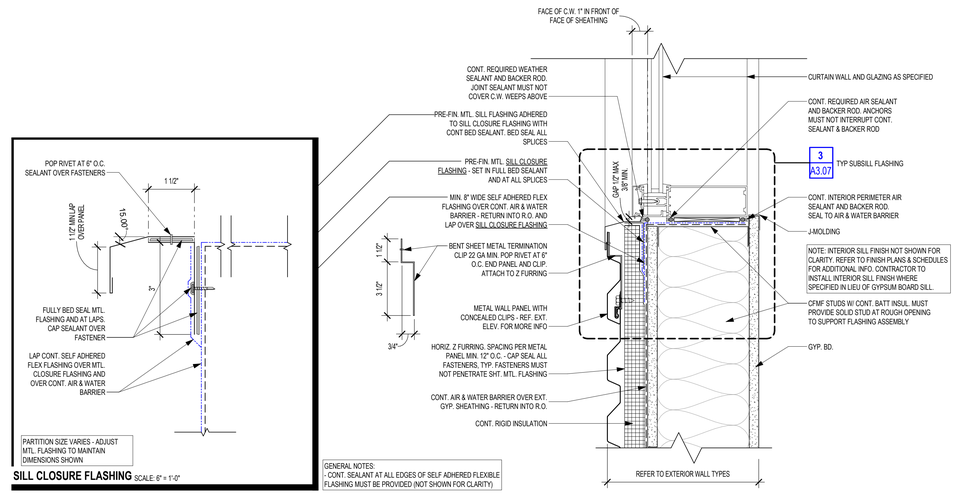
2 TYPICAL CURTAIN WALL JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"



5 CURTAIN WALL JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"



4 CURTAIN WALL JAMB - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"



1 TYPICAL CURTAIN WALL SILL - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

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Project:
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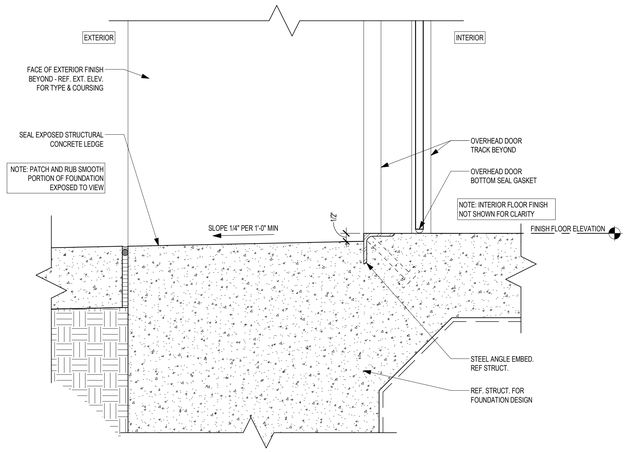
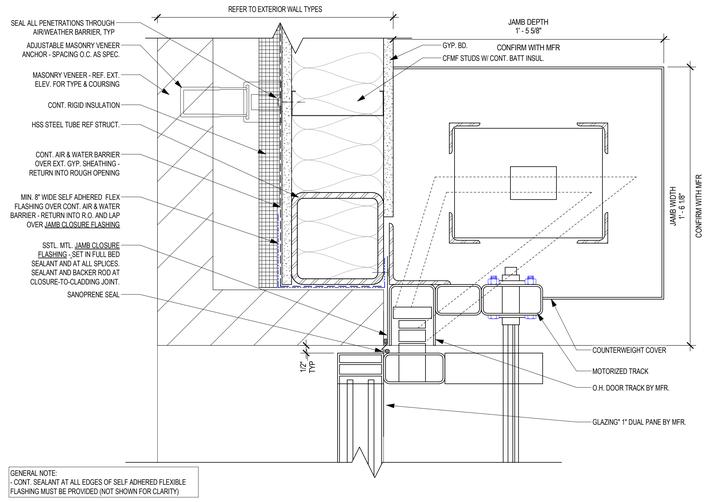
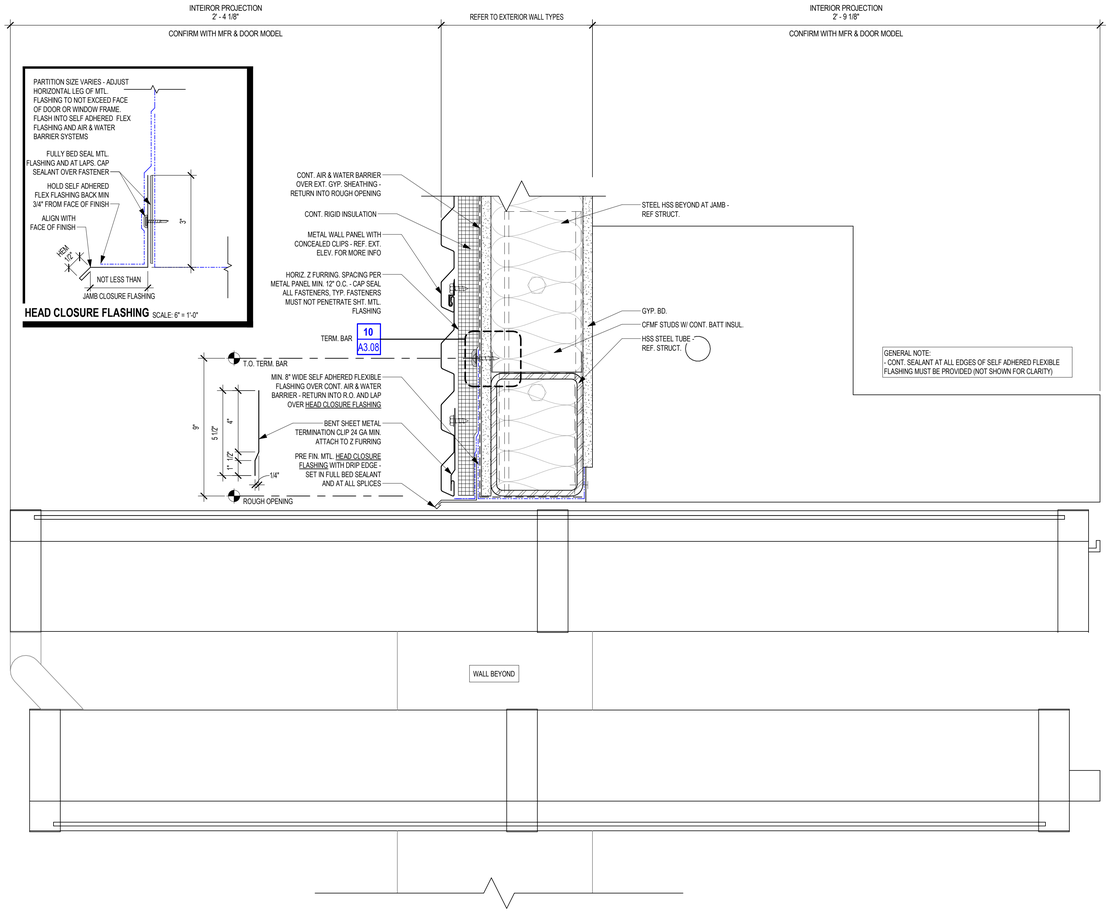


3 TYPICAL OVERHEAD DOOR THRESHOLD
3" = 1'-0"



2 TYPICAL OVERHEAD COILING DOOR JAMB - MASONRY VENEER & CFMF
3" = 1'-0"



1 OVERHEAD DOOR HEAD DETAIL - HORIZONTAL CORRUGATED METAL PANEL & CFMF
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

Huckabee
www.huckabee-inc.com
800.687.1229

TYP. EXT. OVERHEAD BI-FOLD DOOR

VOLUME 01

Job No.	Sheet No.
00802-04-01	A3.21
Drawn By: KR	
Date: 07.15.26	

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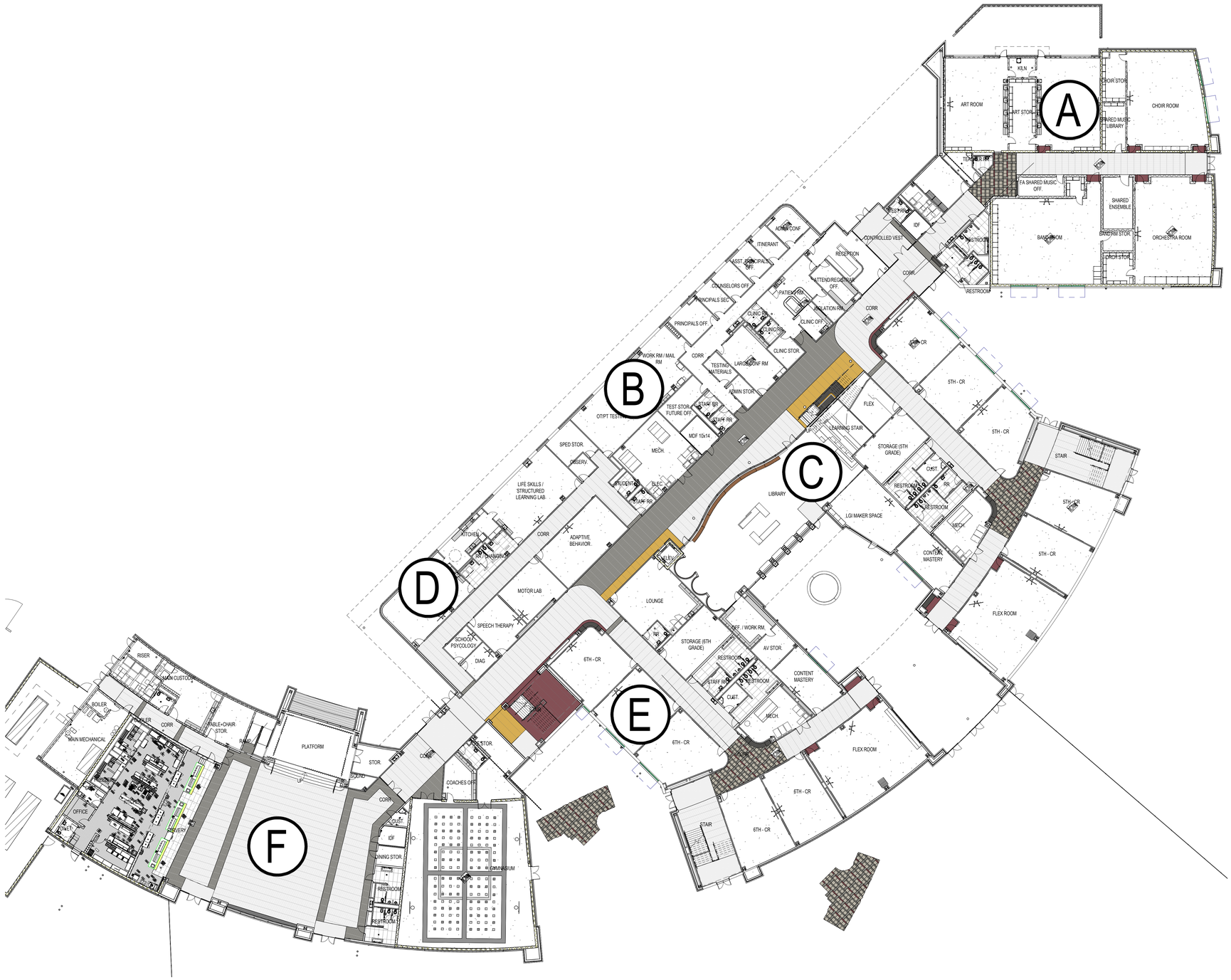

1 A4.01_MASTER FINISH PLAN_LEVEL 01
1" = 20'-0"

PLAN N

A1.1	ELEVATION REFERENCE
1 / A1.1	CALLOUT REFERENCE
1 / A101	SIM WALL SECTION REFERENCE
B	B - HORIZONTAL BLINDS S - WINDOW SHADES SB - WINDOW SHADES - BLACKOUT SM - MOTORIZED SHADES SMB - MOTORIZED SHADES - BLACKOUT
	FLOOR INSTALLATION DIRECTION
	FLOOR TRANSITION
FINISH	WALL FINISH TAG
8' MB	EQUIPMENT TAG

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
4. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
5. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.
6. FLOOR FINISH TRANSITION TO BE LOCATED AT THE MIDDLE OF THE DOOR THRESHOLD.
7. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 15/A9.01 AND 16/A9.01 FOR DETAILS.
8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
9. PROVIDE CORNER GUARDS AT ALL TILED WALL OUTSIDE CORNERS. REF. DTL. 17/A4.44
10. AT ALL BLIND LOCATIONS PROVIDE PUSH/PULL OPERATED BLINDS WITHIN FRAME.
11. PROVIDE MOISTURE BASE GUARD TRIM AT ALL INTERIOR GYPSUM WALLS. REF. DTL. 11/A4.45
12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY — MATERIAL TYPE
— FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

ACB - ACOUSTICAL CEILING BAFFLE

AL - ALUMINUM

AP - ACOUSTICAL PANELS

AWB - ACOUSTICAL WALL BAFFLE

AWC - ACOUSTICAL WALLCOVERING

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

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COS - CONCRETE SEALED

CPT - CARPET, SHEET

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GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

LWS - LINEAR WALL SYSTEM

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

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RT - RUBBER TILE

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SPF - SPLIT-FACE CONCRETE MASONRY UNIT

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STG - STAGE CURTAIN

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TB - TACK BOARD

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TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

WOC - WALK-OFF CARPET

WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

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Revision / Date

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

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MASTER FINISH PLAN - LEVEL 01

VOLUME 01

Job No. 03802-04-01	Sheet No. A4.01
Drawn By: CB	
Date: 07.15.26	

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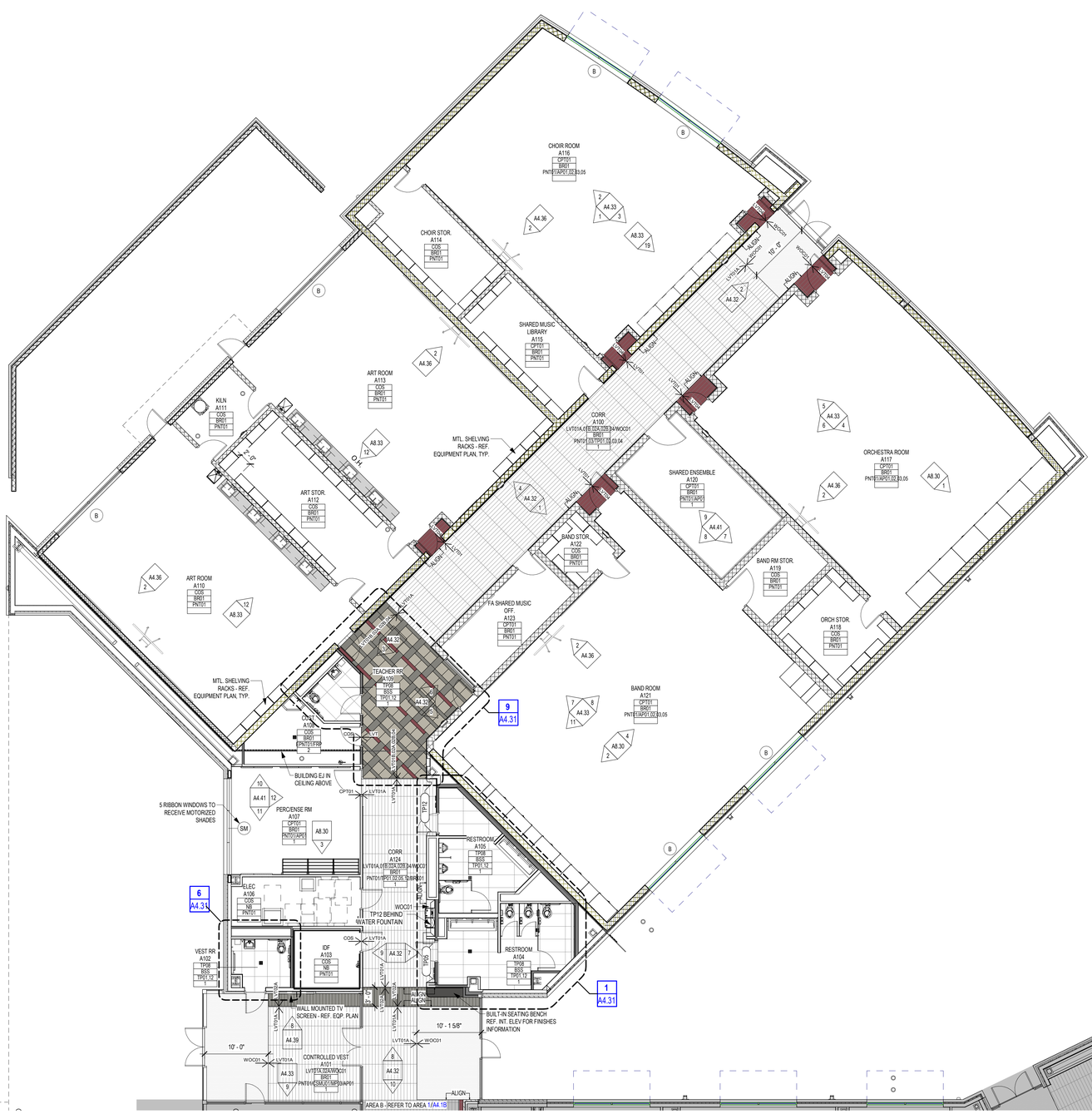

1 FINISH PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- 1 / A101 SIM — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH PLAN GENERAL NOTES

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FINISH KEY

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER
TYP FLOOR FINISH → LVT01
WALL BASE FINISH → BR01
TYP WALL FINISH → PNT01
REMARKS → 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

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BRV - BASE, RUBBER VENTED

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WMS - MASONITE WOOD FLOORING

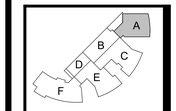
WOC - WALK-OFF CARPET

WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29304 STATE OF TEXAS

7/15/2026

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FINISH PLAN - LEVEL 01 - AREA A

VOLUME 01

Job No. 03802-04-01	Sheet No. A4.1A
Drawn By: MA, AS	
Date: 07.15.26	

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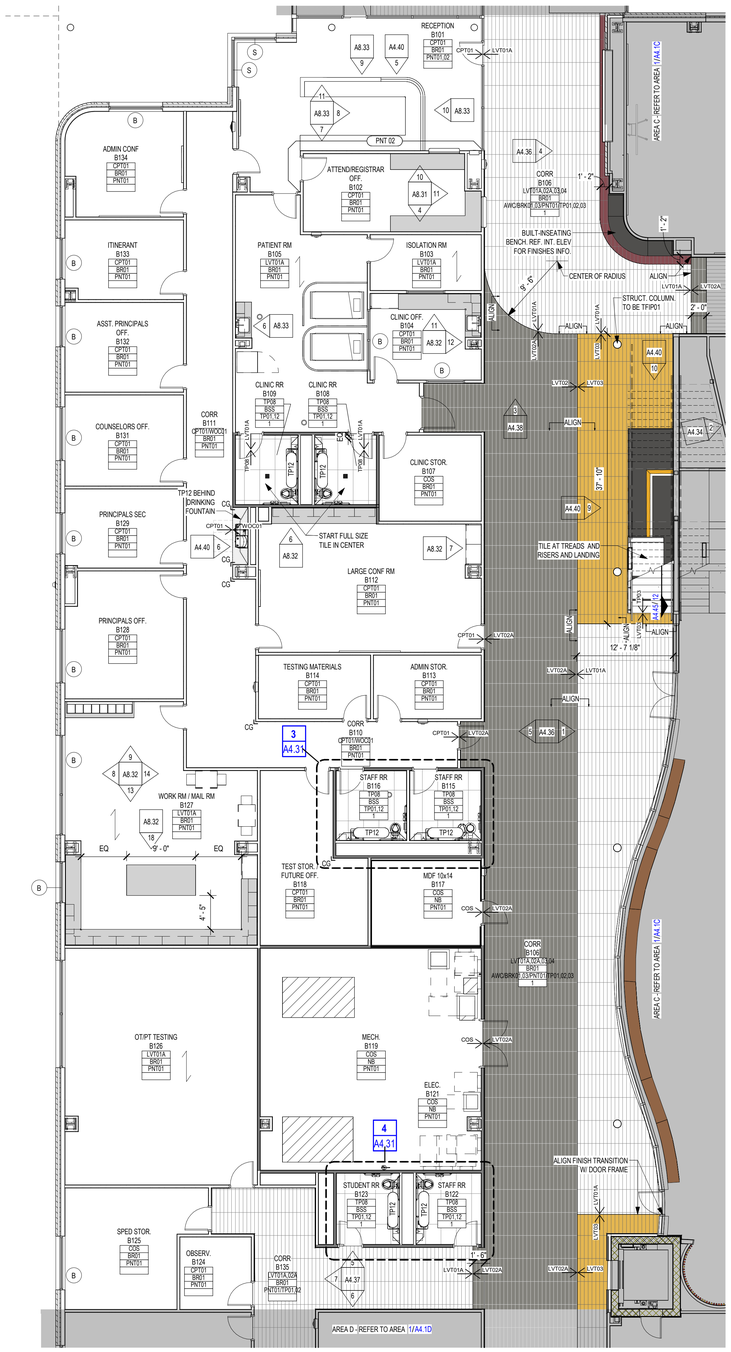

1 FINISH PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

PLAN N

A1.1 1 — ELEVATION REFERENCE

1 / A1.1 — CALLOUT REFERENCE

SIM 1 / A101 — WALL SECTION REFERENCE

B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT

FLOOR INSTALLATION DIRECTION

FLOOR TRANSITION

FINISH — WALL FINISH TAG

8' MB — EQUIPMENT TAG

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

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025 — ROOM NUMBER

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WALL BASE FINISH	BR01
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REMARKS	1

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FINISH KEY

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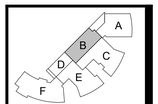
Revision / Date

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.



7/15/2026

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FINISH PLAN - LEVEL 01 - AREA B

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.1B
Drawn By: MA, AS	
Date: 07.15.26	

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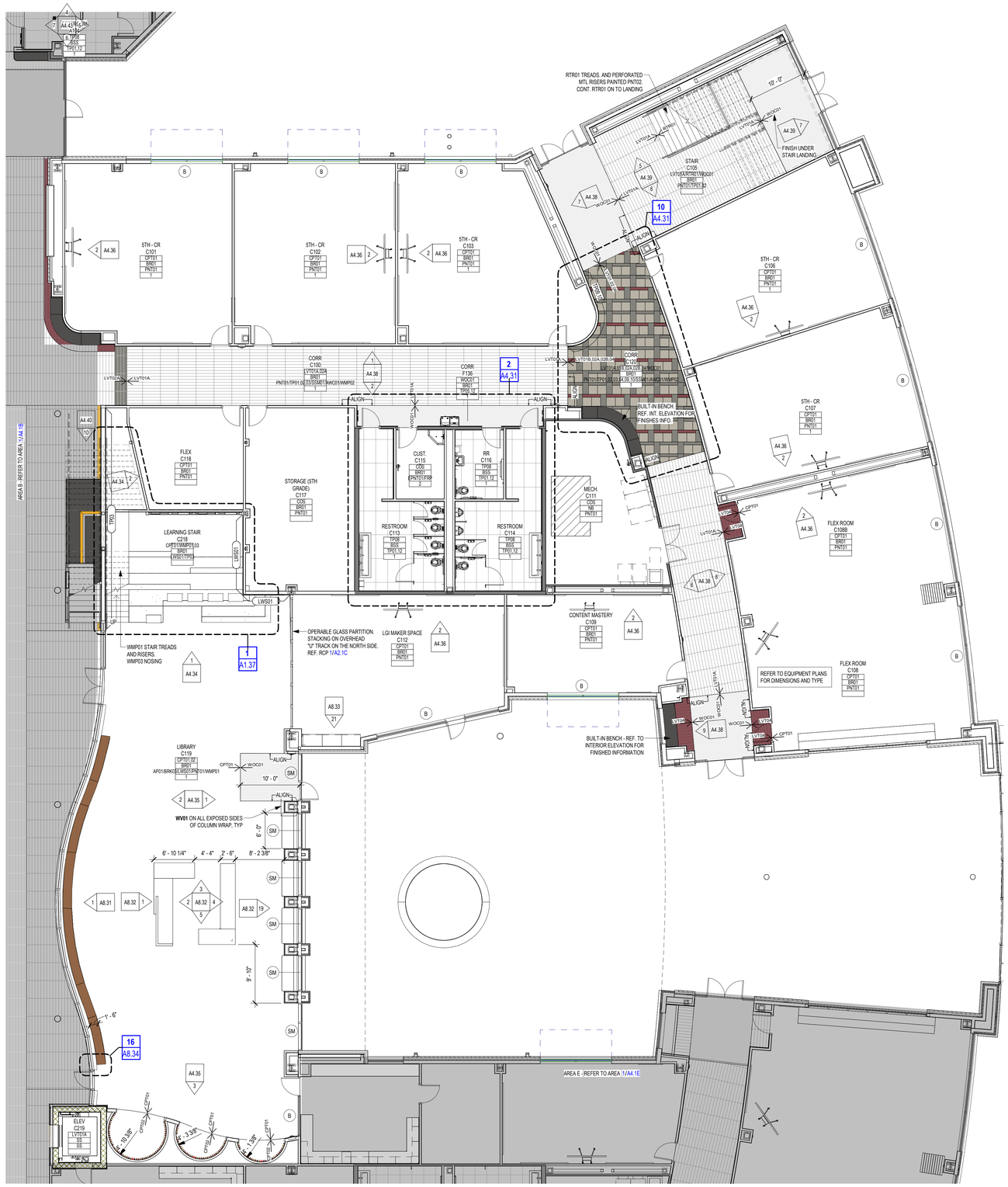

1 FINISH PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

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- FLOOR TRANSITION
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FINISH PLAN GENERAL NOTES

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2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
4. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
5. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.
6. FLOOR FINISH TRANSITION TO BE LOCATED AT THE MIDDLE OF THE DOOR THRESHOLD.
7. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 15/A9.01 AND 16/A9.01 FOR DETAILS.
8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
9. PROVIDE CORNER GUARDS AT ALL TILED WALL OUTSIDE CORNERS. REF. DTL. 17/A4.44
10. AT ALL BLIND LOCATIONS PROVIDE PUSH/PULL OPERATED BLINDS WITHIN FRAME.
11. PROVIDE MOISTURE BASE GUARD TRIM AT ALL INTERIOR GYPSUM WALLS. REF. DTL. 11/A4.45
12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 — ROOM NAME / ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE; FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
ACB - ACOUSTICAL CEILING BAFFLE
AL - ALUMINUM
AP - ACOUSTICAL PANELS
AWB - ACOUSTICAL WALL BAFFLE
AWC - ACOUSTICAL WALLCOVERING
BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
CCPS - CERAMIC CLADDING PANEL SYSTEM
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
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COP - CONCRETE POLISHED
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CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
EBWS - EPOXY BASED WALL SYSTEM
EPNT - EPOXY PAINT
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MS - METAL SOFFIT
NB - NO BASE
NS - NATURAL STONE
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE
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RES - RESINOUS FLOORING
RT - RUBBER TILE
RTR - RUBBER TREADS
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SSM - SOLID SURFACE MATERIAL
STG - STAGE CURTAIN
SVT - SOLID VINYL TILE
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TZ - TERRAZZO
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VCT - TILE, VINYL, COMPOSITION
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WOC - WALK-OFF CARPET
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(NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29
7/15/2026

Huckabee
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800.687.1229

FINISH PLAN - LEVEL 01 - AREA C

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.1C
Drawn By: MA, AS	
Date: 07.15.26	

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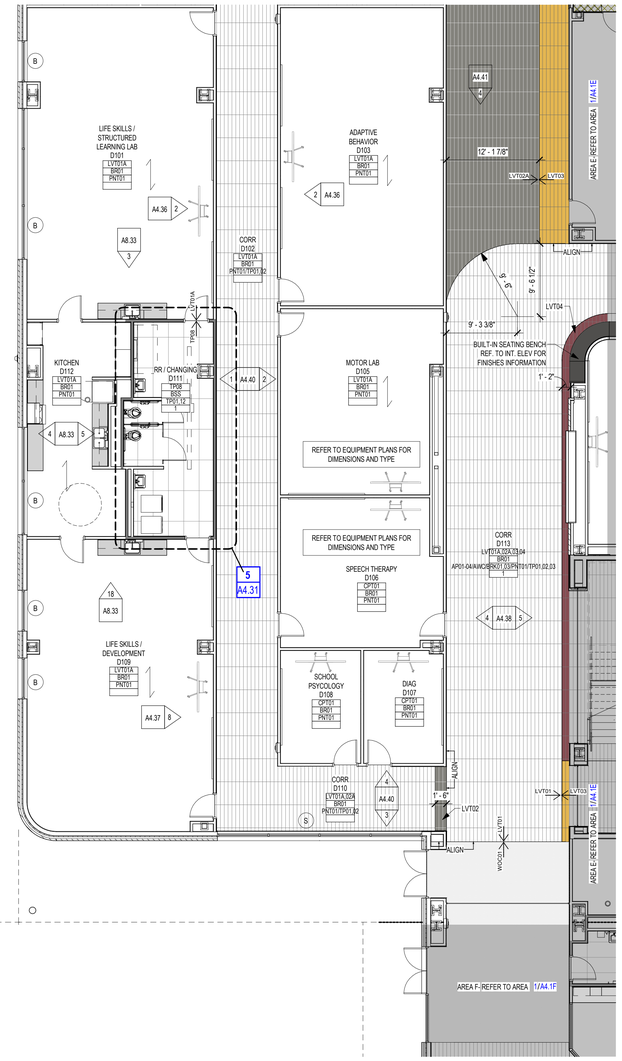

1 FINISH PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN N

A1.1 1 — ELEVATION REFERENCE

1 / A1.1 — CALLOUT REFERENCE

1 / A101 — SIM WALL SECTION REFERENCE

B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT

FLOOR INSTALLATION DIRECTION

FLOOR TRANSITION

FINISH — WALL FINISH TAG

8' MB — EQUIPMENT TAG

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH REMARKS

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CLASSROOM — ROOM NAME
025 — ROOM NUMBER

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WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

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BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

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LWS - LINEAR WALL SYSTEM

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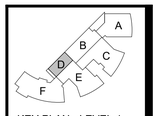
(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29 TEXAS
7/15/2026

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FINISH PLAN - LEVEL 01 - AREA D

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.1D
Drawn By: MA, AS	
Date: 07.15.26	

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1 FINISH PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- SIM / 1 / A101 — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

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REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 — ROOM NAME / ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

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MP - METAL WALL PANEL

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FINISH KEY

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

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FINISH PLAN - LEVEL 01 - AREA E

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.1E
Drawn By: MA, AS	
Date: 07.15.26	

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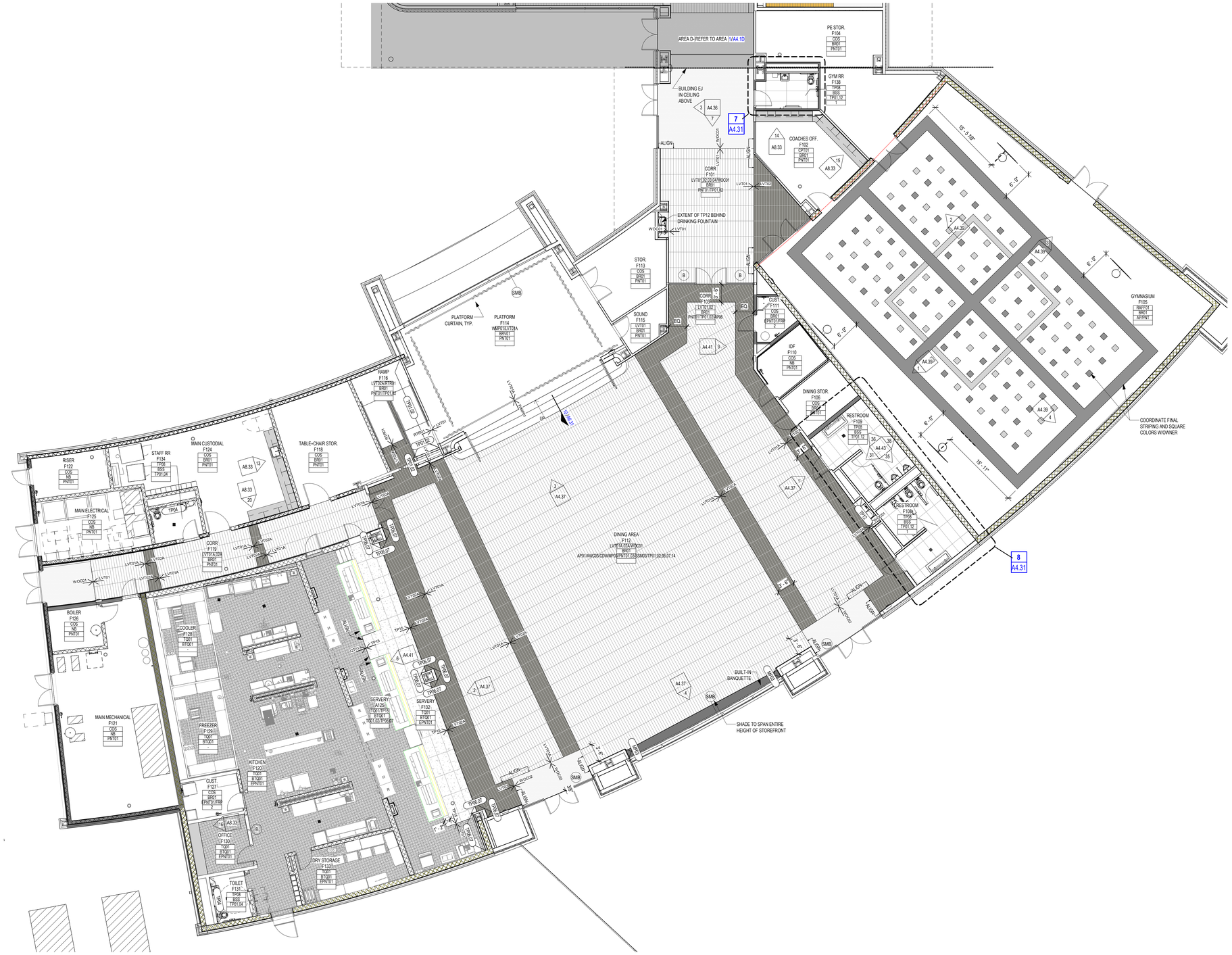

1 FINISH PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

PLAN NORTH

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- ELEVATION REFERENCE
- CALLOUT REFERENCE
- SIM
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- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
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FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

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025 — ROOM NUMBER

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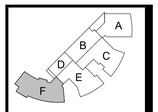
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORING
RT - RUBBER TILE
RTR - RUBBER TREADS
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SPF - SPLIT-FACE CONCRETE MASONRY UNIT
SSM - SOLID SURFACE MATERIAL
STG - STAGE CURTAIN
SVT - SOLID VINYL TILE
TB - TACK BOARD
TC - TILE, CERAMIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - TILE, VINYL COMPOSITION
VSF - VINYL SHEET FLOORING
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS - MASONITE WOOD FLOORING
WOC - WALK-OFF CARPET
WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

Revision /	Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]
7/15/2026

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FINISH PLAN - LEVEL 01 - AREA F

VOLUME 01

Job No. 0/0802-04-01	Sheet No. A4.1F
Drawn By: MA, AS	
Date: 07.15.26	

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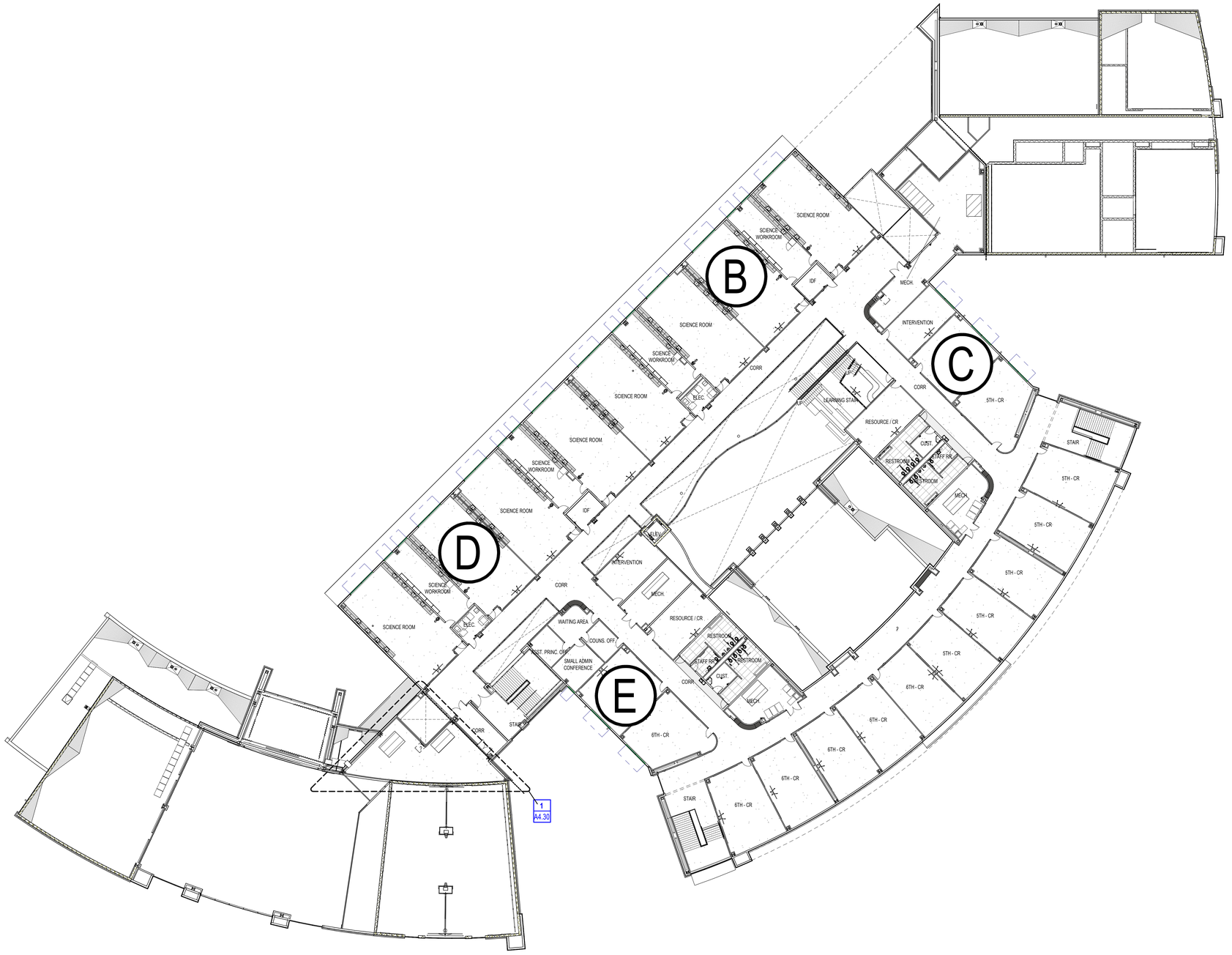

1 A4.02_MASTER FINISH PLAN_LEVEL 02
1" = 20'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- 1 / A101 — SIM — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.
2. FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
4. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
5. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.
6. FLOOR FINISH TRANSITION TO BE LOCATED AT THE MIDDLE OF THE DOOR THRESHOLD.
7. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 15/A9.01 AND 16/A9.01 FOR DETAILS.
8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
9. PROVIDE CORNER GUARDS AT ALL TILED WALL OUTSIDE CORNERS. REF. DTL. 17/A4.44
10. AT ALL BLIND LOCATIONS PROVIDE PUSH/PULL OPERATED BLINDS WITHIN FRAME.
11. PROVIDE MOISTURE BASE GUARD TRIM AT ALL INTERIOR GYPSUM WALLS. REF. DTL. 11/A4.45
12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY — MATERIAL TYPE; ## — FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

ACB - ACOUSTICAL CEILING BAFFLE

AL - ALUMINUM

AP - ACOUSTICAL PANELS

AWB - ACOUSTICAL WALL BAFFLE

AWC - ACOUSTICAL WALLCOVERING

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

CG - CORNER GUARD

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

LWS - LINEAR WALL SYSTEM

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

STG - STAGE CURTAIN

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

WOC - WALK-OFF CARPET

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(NOT ALL ABBREVIATIONS MAY BE USED)

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]
7/15/2026

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MASTER FINISH PLAN - LEVEL 02

VOLUME 01

Job No. 002602-04-01	Sheet No. A4.02
Drawn By: CB	
Date: 07.15.26	

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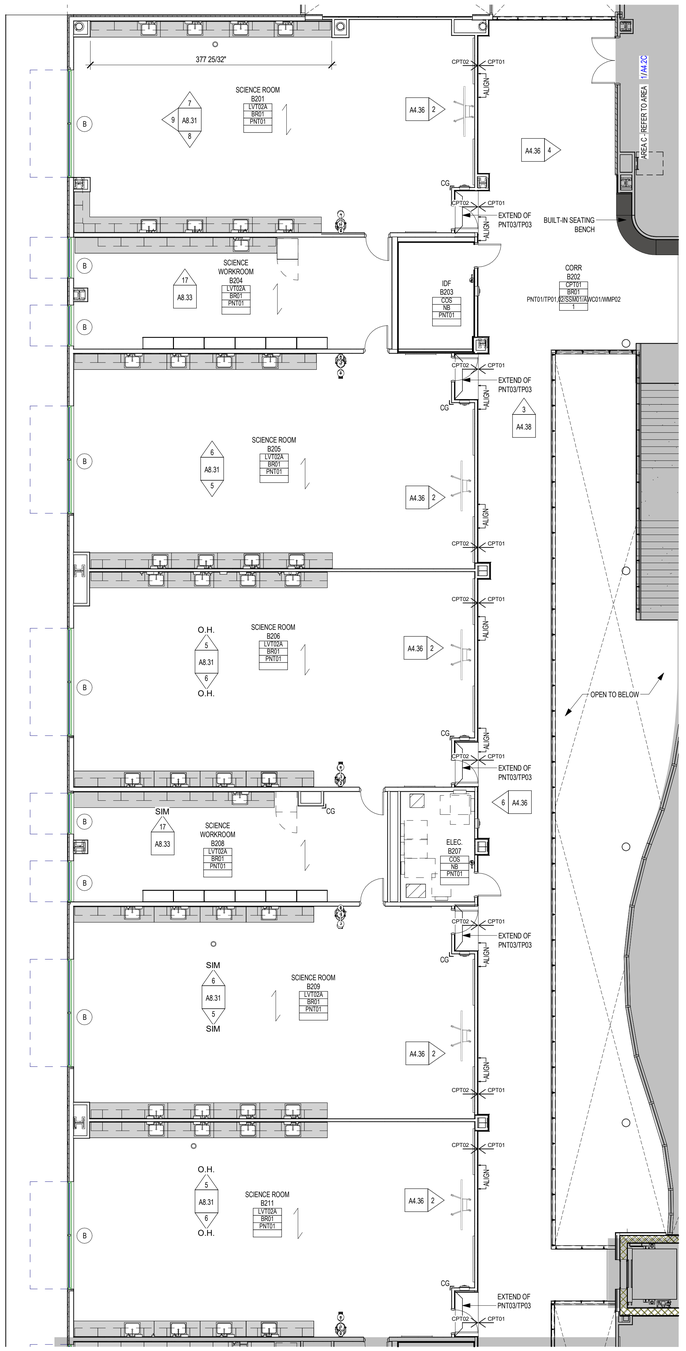

1 FINISH PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- SIM / 1 / A101 — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
4. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
5. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.
6. FLOOR FINISH TRANSITION TO BE LOCATED AT THE MIDDLE OF THE DOOR THRESHOLD.
7. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 15/A9.01 AND 16/A9.01 FOR DETAILS.
8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
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12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — XY: MATERIAL TYPE; ##: FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
ACB - ACOUSTICAL CEILING BAFFLE
AL - ALUMINUM
AP - ACOUSTICAL PANELS
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BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
CCPS - CERAMIC CLADDING PANEL SYSTEM
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CDW - CUSTOM DIGITAL WALLCOVERINGS
CG - CORNER GUARD
COP - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
EBWS - EPOXY BASED WALL SYSTEM
EPNT - EPOXY PAINT
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
GFRC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
LVT - LUXURY VINYL TILE
LWS - LINEAR WALL SYSTEM
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MS - METAL SOFFIT
NB - NO BASE
NS - NATURAL STONE
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PNT - PAINT
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS - RUBBER FLOORING SHEET
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WMS - MASONITE WOOD FLOORING
WOC - WALK-OFF CARPET
WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

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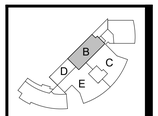
Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.



7/15/2026

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FINISH PLAN - LEVEL 02 - AREA B

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.2B
Drawn By: MA, AS	
Date: 07.15.26	

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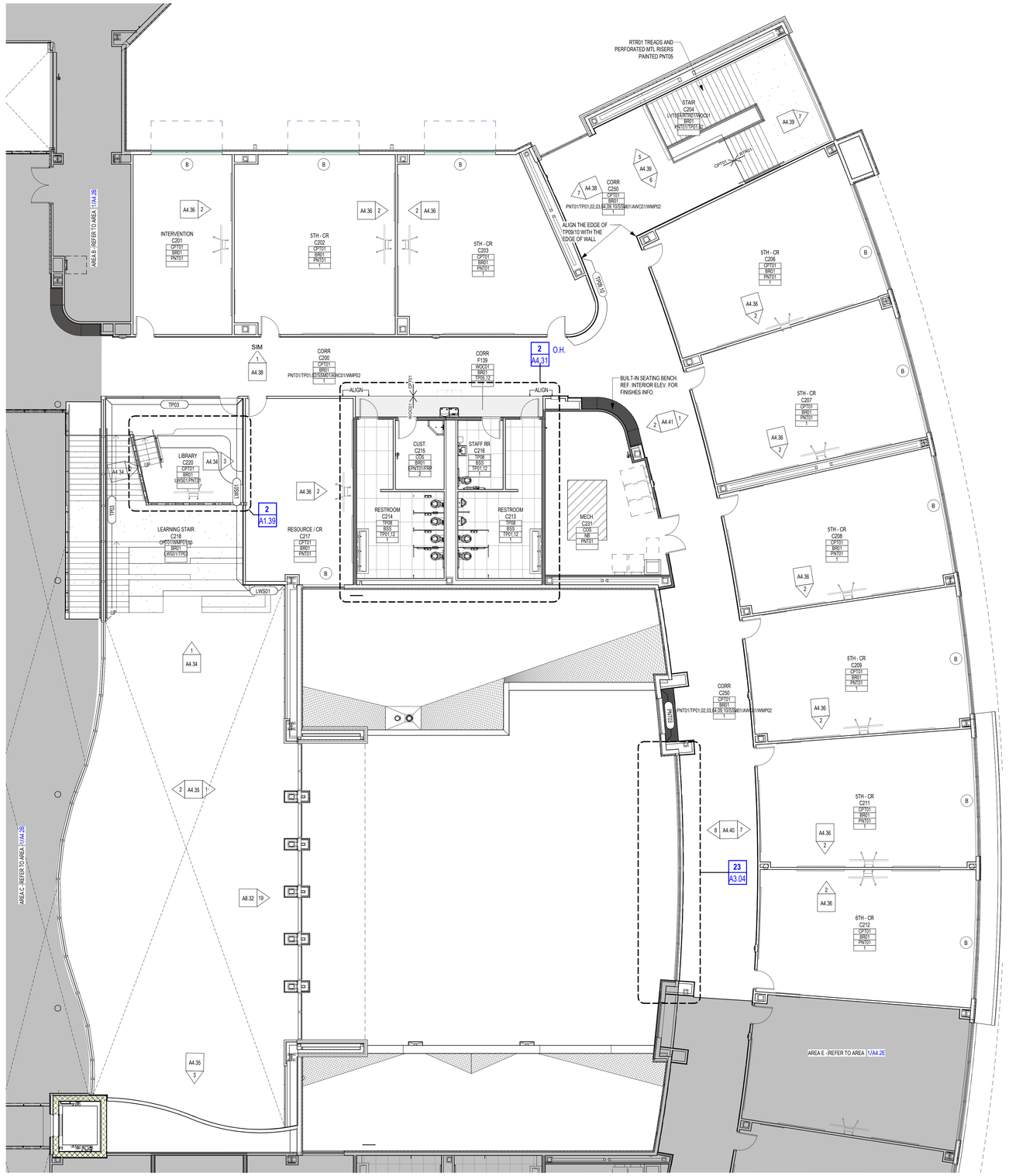

1 FINISH PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

PLAN N

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

- A1.1 / 1 — ELEVATION REFERENCE
- 1 / A1.1 — CALLOUT REFERENCE
- SIIM; 1 / A101 — WALL SECTION REFERENCE
- B — B - HORIZONTAL BLINDS; S - WINDOW SHADES; SB - WINDOW SHADES - BLACKOUT; SM - MOTORIZED SHADES; SMB - MOTORIZED SHADES - BLACKOUT
- FLOOR INSTALLATION DIRECTION
- FLOOR TRANSITION
- FINISH — WALL FINISH TAG
- 8' MB — EQUIPMENT TAG

FINISH REMARKS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.
2. FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31

FINISH PLAN GENERAL NOTES

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
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10. AT ALL BLIND LOCATIONS PROVIDE PUSH/PULL OPERATED BLINDS WITHIN FRAME.
11. PROVIDE MOISTURE BASE GUARD TRIM AT ALL INTERIOR GYPSUM WALLS. REF. DTL. 11/A4.45
12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 — ROOM NAME / ROOM NUMBER
TYP FLOOR FINISH: LVT01
WALL BASE FINISH: BR01
TYP WALL FINISH: PNT01
REMARKS: 1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE; FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

FINISH KEY

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
ACB - ACOUSTICAL CEILING BAFFLE
AL - ALUMINUM
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BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
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BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
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TZT - TERRAZZO TILE
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(NOT ALL ABBREVIATIONS MAY BE USED)

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

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FINISH PLAN - LEVEL 02 - AREA C

VOLUME 01

Job No.	Sheet No.
00802-04-01	A4.2C
Drawn By: MA, AS	
Date: 07.15.26	

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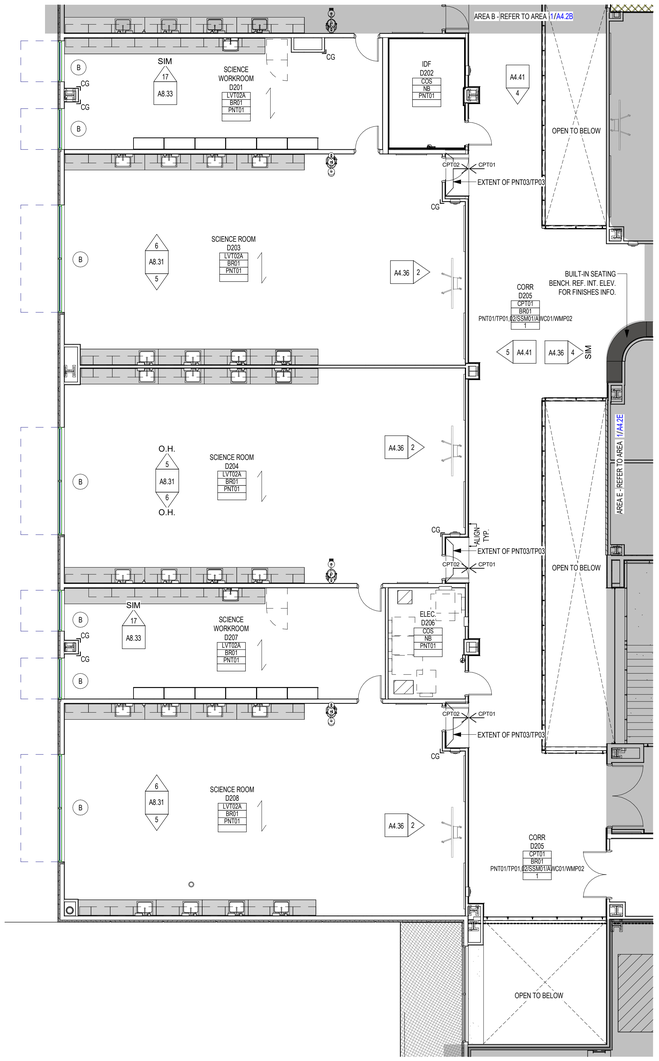


1 FINISH PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN N

A1.1 1	ELEVATION REFERENCE
1 A1.1	CALLOUT REFERENCE
SIM 1 A101	WALL SECTION REFERENCE
B	B - HORIZONTAL BLINDS S - WINDOW SHADES SB - WINDOW SHADES - BLACKOUT SM - MOTORIZED SHADES SMB - MOTORIZED SHADES - BLACKOUT
	FLOOR INSTALLATION DIRECTION
	FLOOR TRANSITION
FINISH	WALL FINISH TAG
6' MB	EQUIPMENT TAG

FINISH PLAN LEGEND
APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
2. PROVIDE **PNT** AND **TP** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
3. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY-IN GRID (WHITE)
4. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS
5. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.
6. FLOOR FINISH TRANSITION TO BE LOCATED AT THE MIDDLE OF THE DOOR THRESHOLD.
7. WALLS BEARING THIS DESIGNATION SHALL HAVE CONCRETE CURBS IN LOCATIONS AS SHOWN ON THE PLAN. REF 15/A8.01 AND 16/A8.01 FOR DETAILS.
8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
9. PROVIDE CORNER GUARDS AT ALL TILED WALL OUTSIDE CORNERS. REF. DTL. 17/A4.44
10. AT ALL BLIND LOCATIONS PROVIDE PUSH/PULL OPERATED BLINDS WITHIN FRAME.
11. PROVIDE MOISTURE BASE GUARD TRIM AT ALL INTERIOR GYPSUM WALLS. REF. DTL. 11/A4.45
12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

FINISH PLAN GENERAL NOTES

ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO G5.01 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CLASSROOM 025 ← ROOM NAME / ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

XY ## — MATERIAL TYPE / FINISH: COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210

ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT

ACB - ACOUSTICAL CEILING BAFFLE

AL - ALUMINUM

AP - ACOUSTICAL PANELS

AWB - ACOUSTICAL WALL BAFFLE

AWC - ACOUSTICAL WALLCOVERING

BP - BASE, PORCELAIN TILE

BRES - BASE, RESINOUS INTEGRAL

BRK - BRICK

BR - BASE, RUBBER

BRV - BASE, RUBBER VENTED

BTC - BASE, TILE, CERAMIC

BTZ - BASE, TERRAZZO PRECAST

BWD - BASE, WOOD

CCPS - CERAMIC CLADDING PANEL SYSTEM

CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL

CDW - CUSTOM DIGITAL WALLCOVERINGS

CG - CORNER GUARD

COP - CONCRETE POLISHED

COS - CONCRETE SEALED

CPT - CARPET, SHEET

CS - CAST STONE

CSM - CONCRETE STONE MASONRY

CT - CARPET, TILED

CWF - CUSTOM WINDOW FILM

EBWS - EPOXY BASED WALL SYSTEM

EPNT - EPOXY PAINT

FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM

GFRC - GLASS FIBER REINFORCED CONCRETE

GRF - GROUND FACE CMU (BURNISHED)

LVT - LUXURY VINYL TILE

LWS - LINEAR WALL SYSTEM

MB - MARKER BOARD

MCM - METAL COMPOSITE MATERIAL

MP - METAL WALL PANEL

MS - METAL SOFFIT

NB - NO BASE

NS - NATURAL STONE

PL - PLASTIC LAMINATE

PLP - PLASTIC LAMINATE PANEL SYSTEM

PNT - PAINT

QTZ - QUARTZ SURFACING

RAFF - RESILIENT ATHLETIC FLUID FLOORING

RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE

RAFS - RUBBER FLOORING SHEET

RAFV - RESILIENT ATHLETIC FLOORING VINYL

RES - RESINOUS FLOORING

RT - RUBBER TILE

RTR - RUBBER TREADS

SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS

SPF - SPLIT-FACE CONCRETE MASONRY UNIT

SSM - SOLID SURFACE MATERIAL

STG - STAGE CURTAIN

SVT - SOLID VINYL TILE

TB - TACK BOARD

TC - TILE, CERAMIC

TP - TILE, PORCELAIN

TQ - TILE, QUARRY

TS - TACKABLE SURFACE

TZ - TERRAZZO

TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS

TZT - TERRAZZO TILE

UP - UPHOLSTERY

VCT - TILE, VINYL COMPOSITION

VSF - VINYL SHEET FLOORING

WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING

WMS - MASONITE WOOD FLOORING

WOC - WALK-OFF CARPET

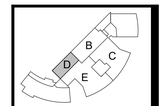
WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.



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FINISH PLAN - LEVEL 02 - AREA D

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.2D
Drawn By: MA, AS	
Date: 07.15.26	

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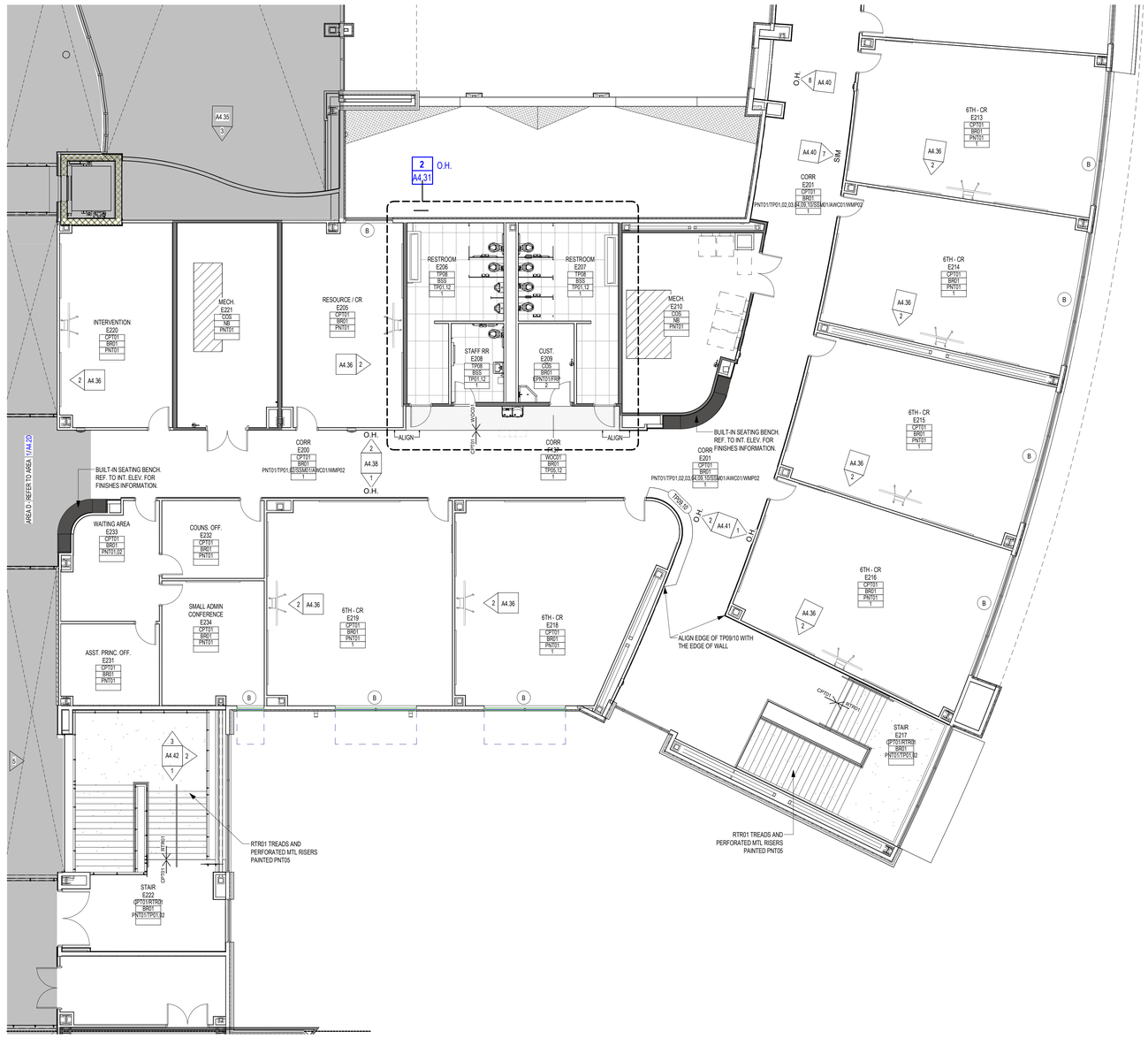

1 FINISH PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

A1.1 1 — ELEVATION REFERENCE

1 / A1.1 — CALLOUT REFERENCE

SIM
1 / A101 — WALL SECTION REFERENCE

B — B - HORIZONTAL BLINDS
S - WINDOW SHADES
SB - WINDOW SHADES - BLACKOUT
SM - MOTORIZED SHADES
SMB - MOTORIZED SHADES - BLACKOUT

FLOOR INSTALLATION DIRECTION

FLOOR TRANSITION

FINISH — WALL FINISH TAG

8' MB — EQUIPMENT TAG

FINISH PLAN LEGEND

APPLIES TO SECTION PLANS

NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.

1. **REF. INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISHES INFORMATION.**
2. **FRP PANEL BEHIND MOPSINK. REF. SHEET A1.31**

FINISH REMARKS

1. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.
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8. PROVIDE CORNER GUARDS AT ALL MAIN CORRIDOR WALKWAYS AT GYP BD CORNERS. REF. DTL. 18/A4.44 INSTALL RUBBER BASE CONTINUOUS OVER THE BOTTOM OF CORNER GUARDS.
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12. REFER TO DTL. 21/A4.44 AND 23/A4.44 FOR FLOOR TRANSITION THRESHOLD

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CLASSROOM — ROOM NAME
025 — ROOM NUMBER

TYP FLOOR FINISH	LVT01
WALL BASE FINISH	BR01
TYP WALL FINISH	PNT01
REMARKS	1

*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

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WP - WALL PADDING

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY

PLAN
N

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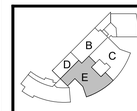
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.



7/15/2026

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FINISH PLAN - LEVEL 02 - AREA E

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Job No. 00802-04-01	Sheet No. A4.2E
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Date: 07.15.26	

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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
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FINISH PLAN - EQUIPMENT PLATFORMS

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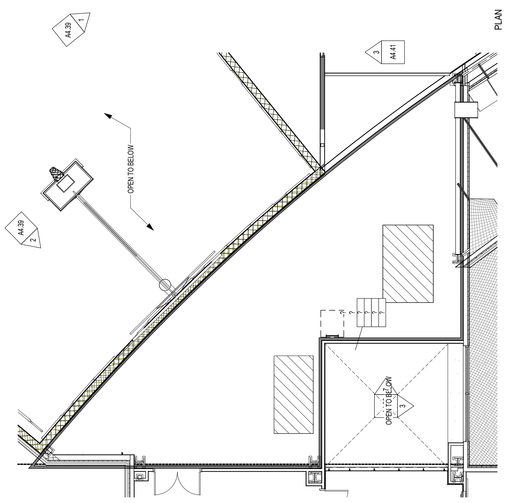
Sheet No.
A4.30

Job No. 00802-04-01
Drawn By: MA, AS
Date: 07.15.26



1 FINISH PLAN - LEVEL 02 - AREA F EQUIPMENT PLAN
1/8" = 1'-0"

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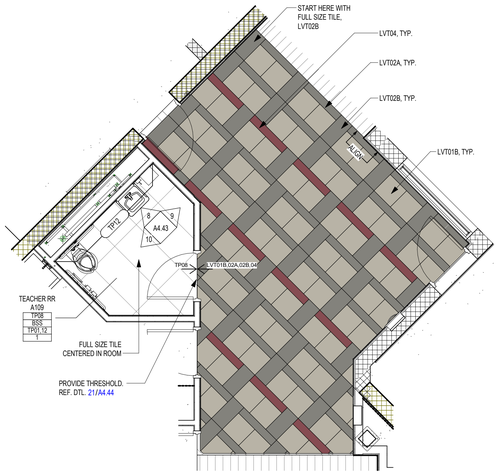
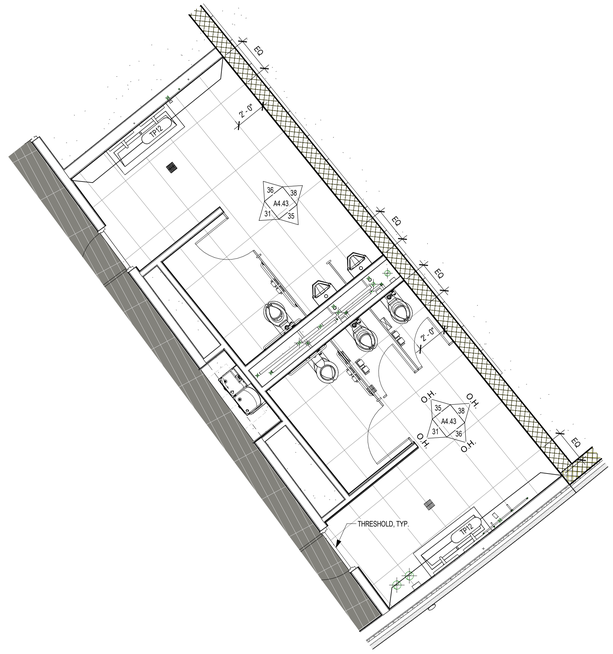
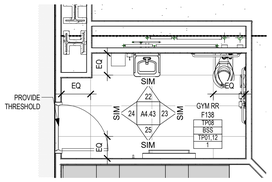
10 ENLARGED FINISH PLAN - FLOOR PATTERN
1/4" = 1'-0"



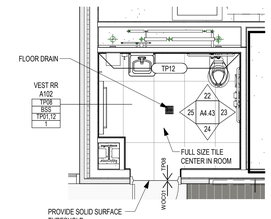
A4.41 9 ENLARGED FINISH PLAN - FLOOR PATTERN
1/4" = 1'-0"



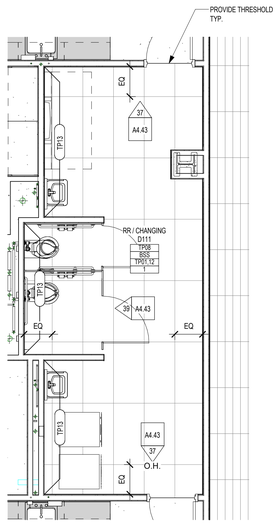
8 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"



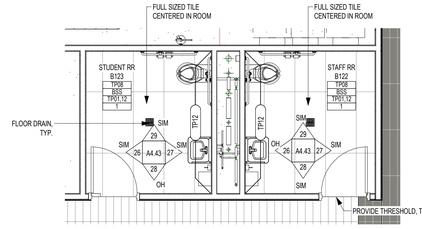
7 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"



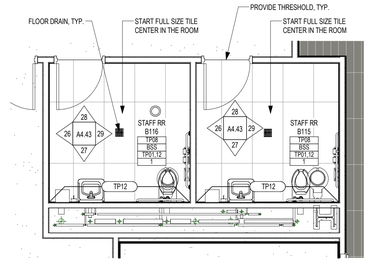
6 ENLARGED FINISH PLAN
1/4" = 1'-0"



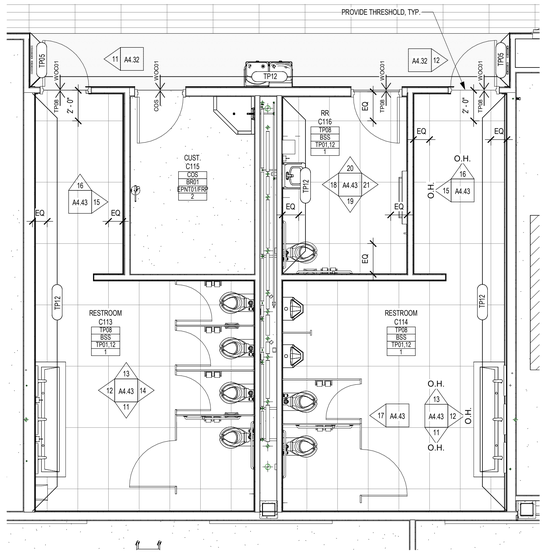
5 ENLARGED FINISH PLA - LIFE SKILLS
1/4" = 1'-0"



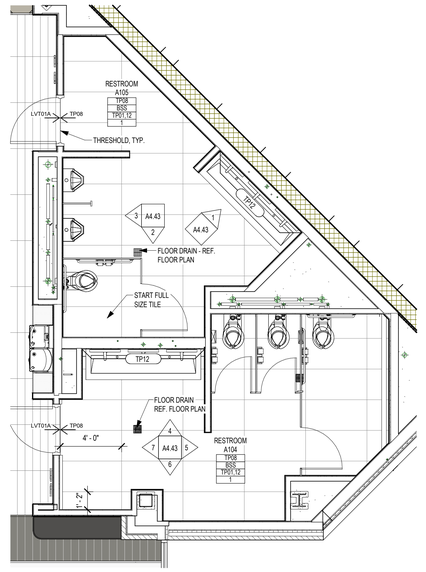
4 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"



3 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"



2 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"



1 ENLARGED RESTROOMS FINISH PLAN
1/4" = 1'-0"

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNCH
29
TEXAS
7/15/2026

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ENLARGED FINISH PLANS

VOLUME 01

Job No.	Sheet No.
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Date: 07.15.26	

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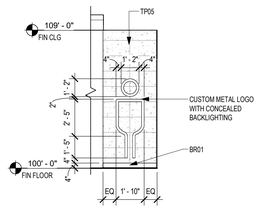
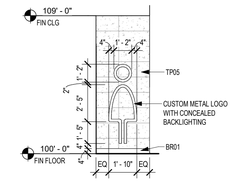
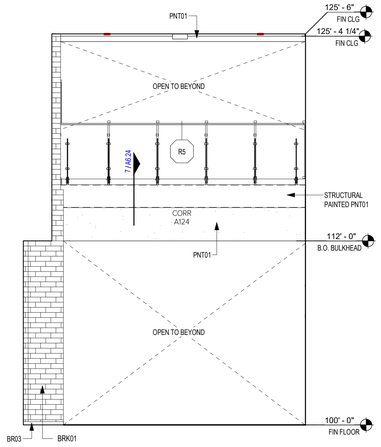


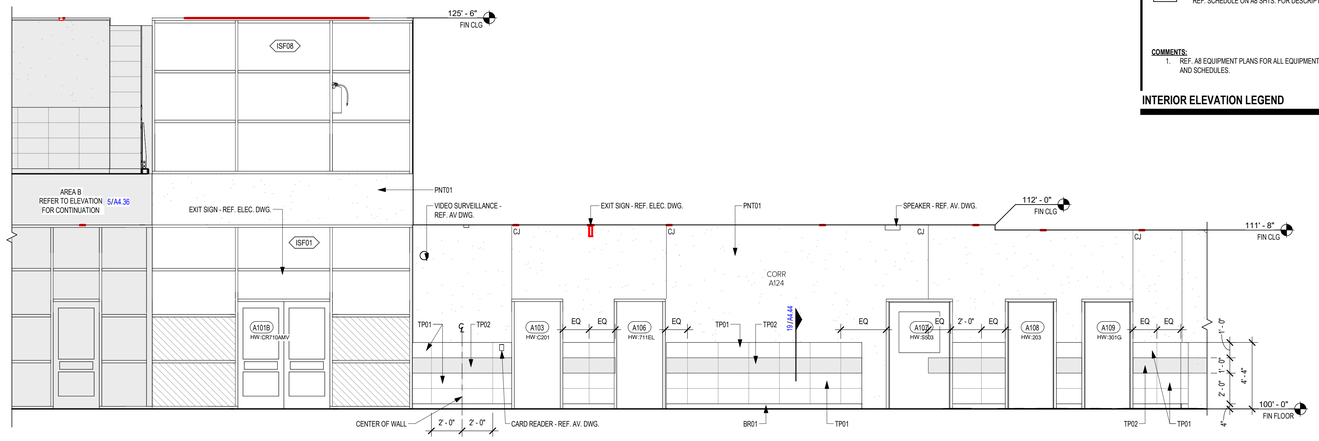
12 INTERIOR ELEVATION
1/4" = 1'-0"



11 INTERIOR ELEVATION
1/4" = 1'-0"



10 INTERIOR ELEVATION - CORRIDOR - SOUTH
1/4" = 1'-0"

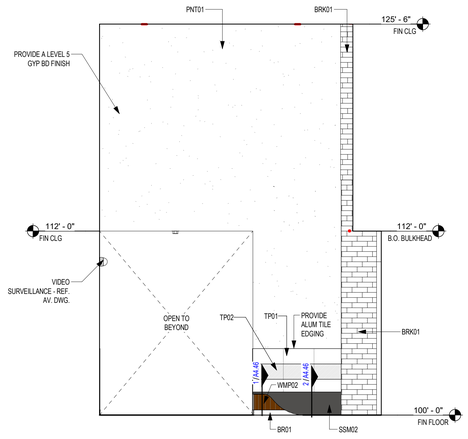


9 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"

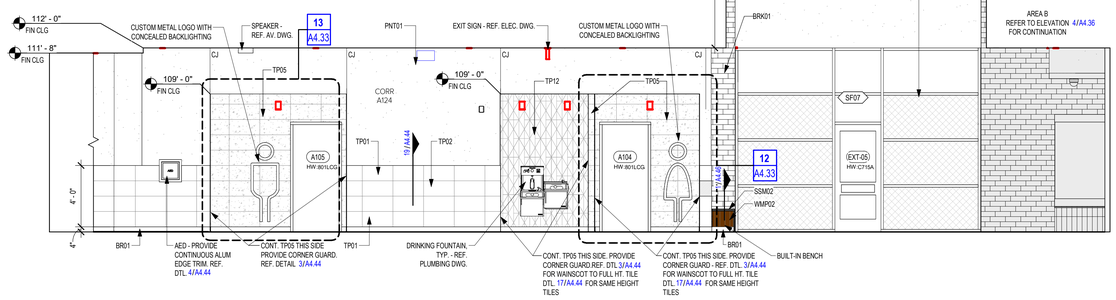
XXX	EQUIPMENT NUMBER REF. SCHEDULE ON A6 SHTS. FOR DESCRIPTION

COMMENTS:
1. REF. A6 EQUIPMENT PLANS FOR ALL EQUIPMENT TYPES AND SCHEDULES.

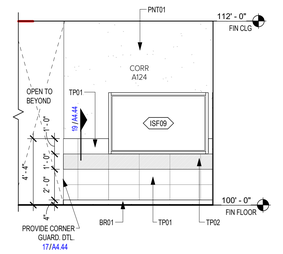
INTERIOR ELEVATION LEGEND



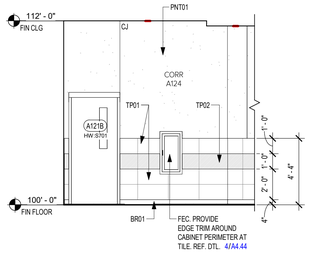
8 INTERIOR ELEVATION - CORRIDOR 124 AT BENCH
1/4" = 1'-0"



7 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"



6 INTERIOR ELEVATION - CORRIDOR - NORTH
1/4" = 1'-0"



5 INTERIOR ELEVATION - CORRIDOR - EAST
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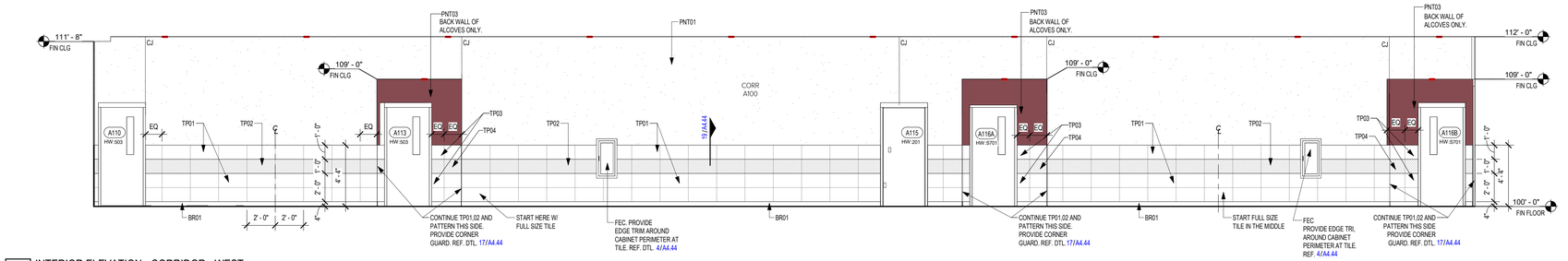
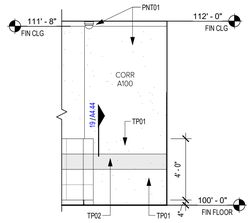
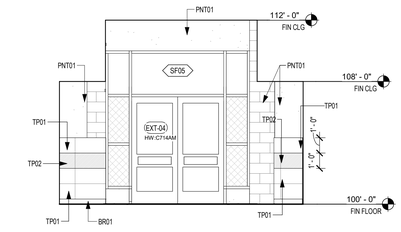


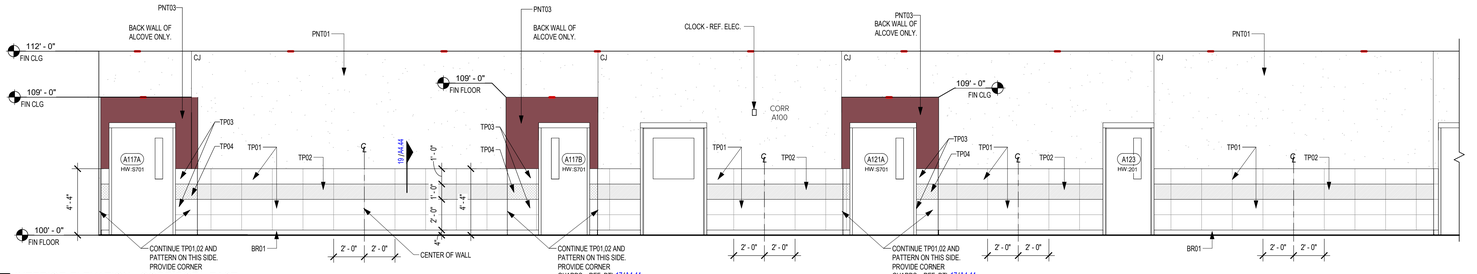
4 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"



3 INTERIOR ELEVATION - CORRIDOR - SOUTH
1/4" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR - NORTH
1/4" = 1'-0"



1 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"

INTERIOR ELEVATIONS

VOLUME 01

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0/2602-04-01	A4.32
Drawn By: MA, AS	
Date: 07.15.26	

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNCH
29808
STATE OF TEXAS
7/15/2026

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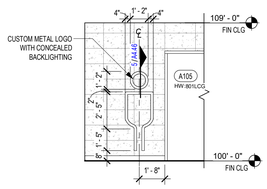
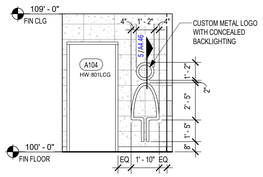
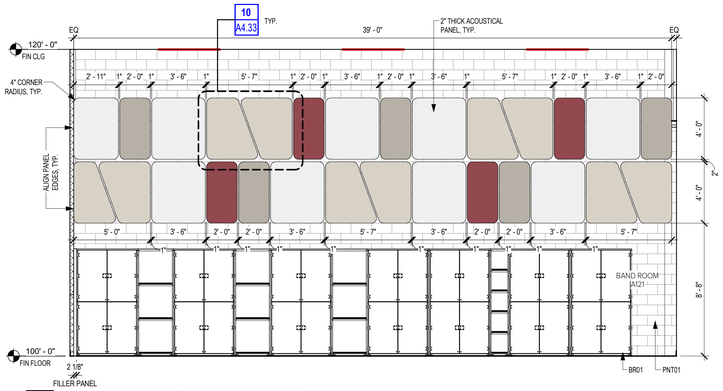


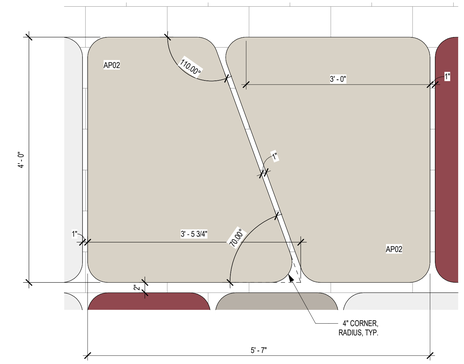
13 ENLARGED ELEVATION - RR SIGNAGE
1/4" = 1'-0"



12 ENLARGED ELEVATION - RR SIGNAGE
1/4" = 1'-0"



11 INTERIOR ELEVATION - BAND ROOM - SOUTH
1/4" = 1'-0"

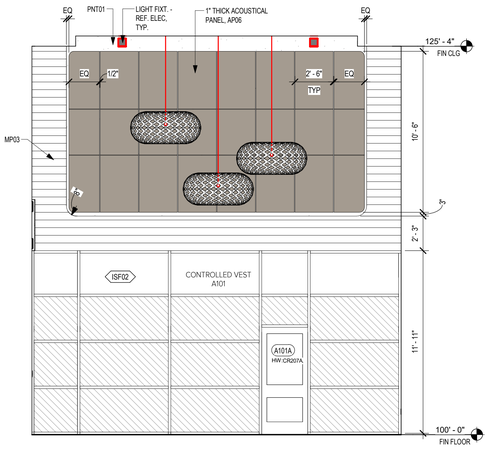


10 ENLARGED FINE ART ACOUSTICAL PANELS
1" = 1'-0"

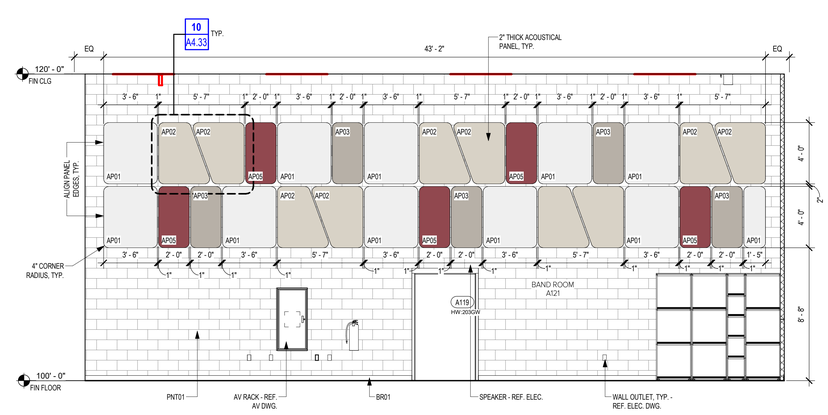
XXX	EQUIPMENT NUMBER REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

COMMENTS:
1. REF. A8 EQUIPMENT PLANS FOR ALL EQUIPMENT TYPES AND SCHEDULES.

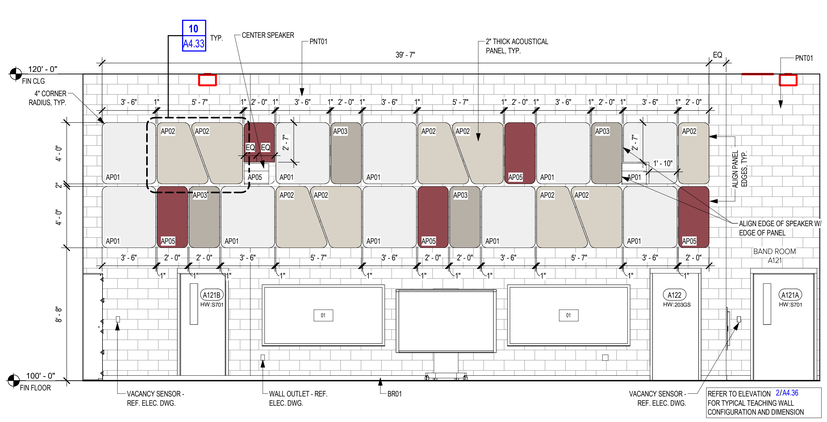
INTERIOR ELEVATION LEGEND



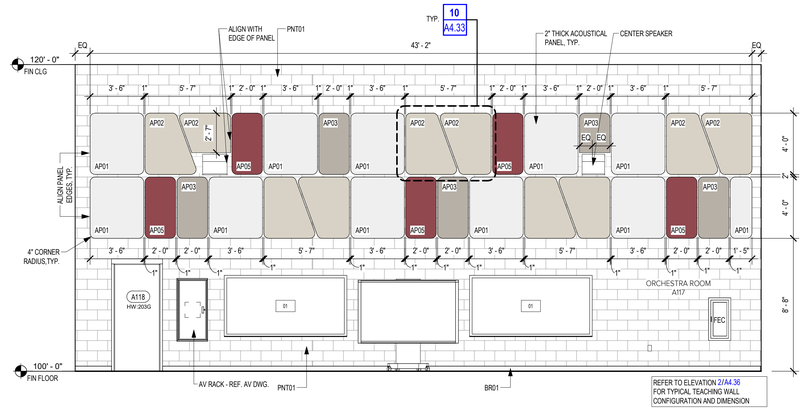
9 INTERIOR ELEVATION
1/4" = 1'-0"



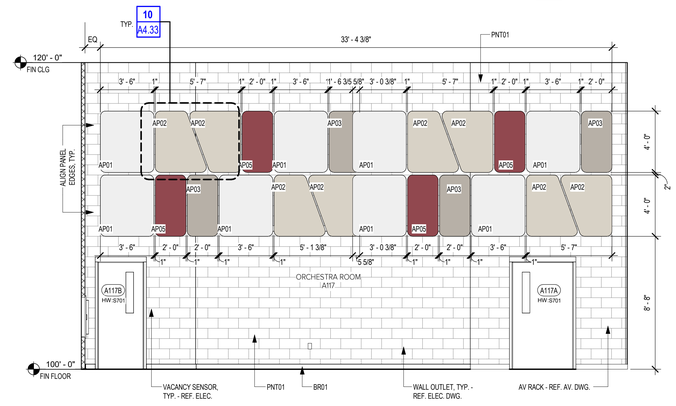
8 INTERIOR ELEVATION - BAND ROOM - NORTH
1/4" = 1'-0"



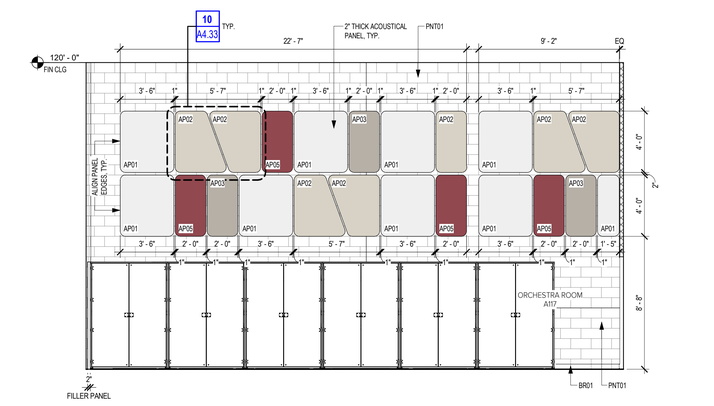
7 INTERIOR ELEVATION - BAND ROOM - WEST
1/4" = 1'-0"



6 INTERIOR ELEVATION - ORCHESTRA ROOM - WEST
1/4" = 1'-0"



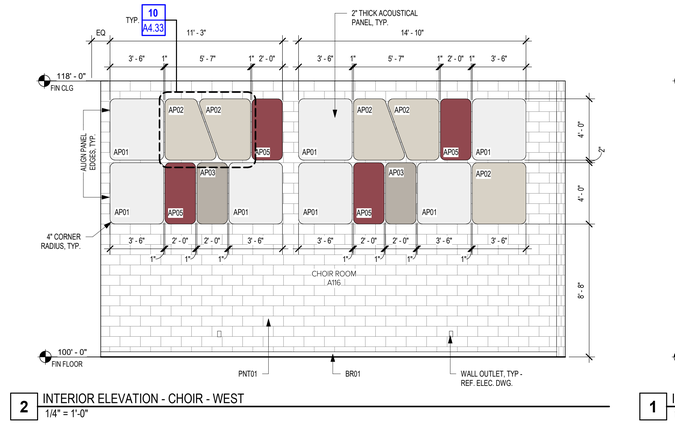
5 INTERIOR ELEVATION - ORCHESTRA ROOM - NORTH
1/4" = 1'-0"



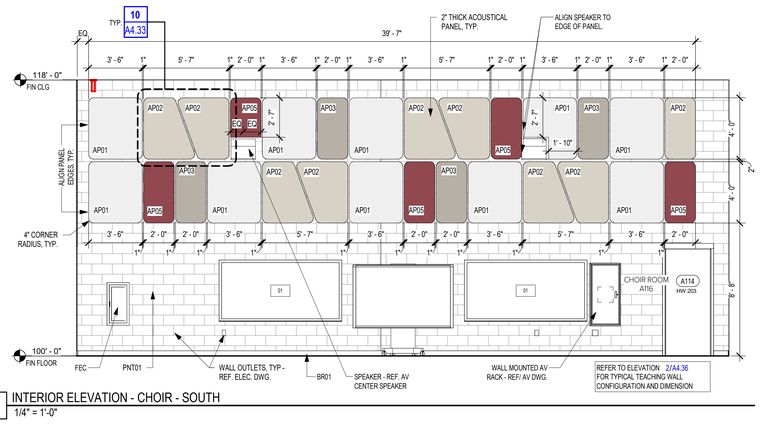
4 INTERIOR ELEVATION - ORCHESTRA ROOM - EAST
1/4" = 1'-0"



3 INTERIOR ELEVATION - CHOIR - EAST
1/4" = 1'-0"



2 INTERIOR ELEVATION - CHOIR - WEST
1/4" = 1'-0"



1 INTERIOR ELEVATION - CHOIR - SOUTH
1/4" = 1'-0"

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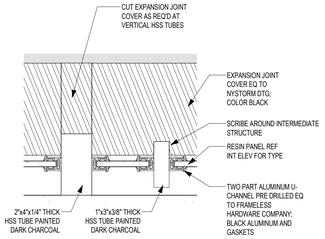
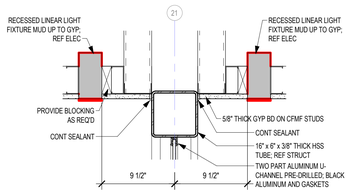
XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A6 SHTS. FOR DESCRIPTION

COMMENTS:
1. REF. A6 EQUIPMENT PLANS FOR ALL EQUIPMENT TYPES AND SCHEDULES.

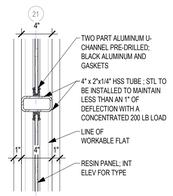
INTERIOR ELEVATION LEGEND



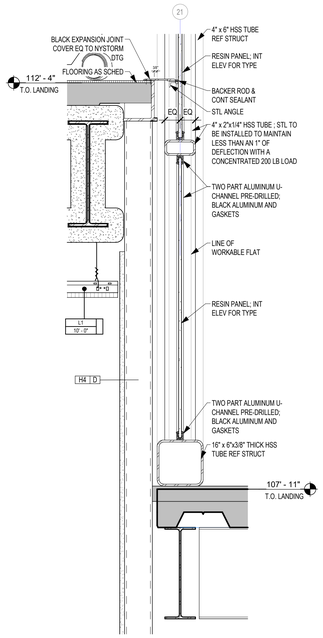
10 PLAN DETAIL - EXPANSION COVER AT SCREEN
3" = 1'-0" BACK REF: A1.39



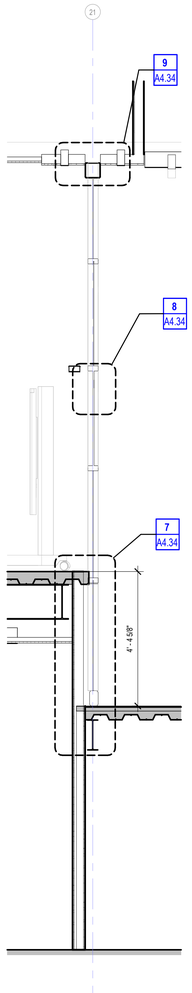
9 DETAIL - SCREEN AT HEADER
1 1/2" = 1'-0" BACK REF: A4.34



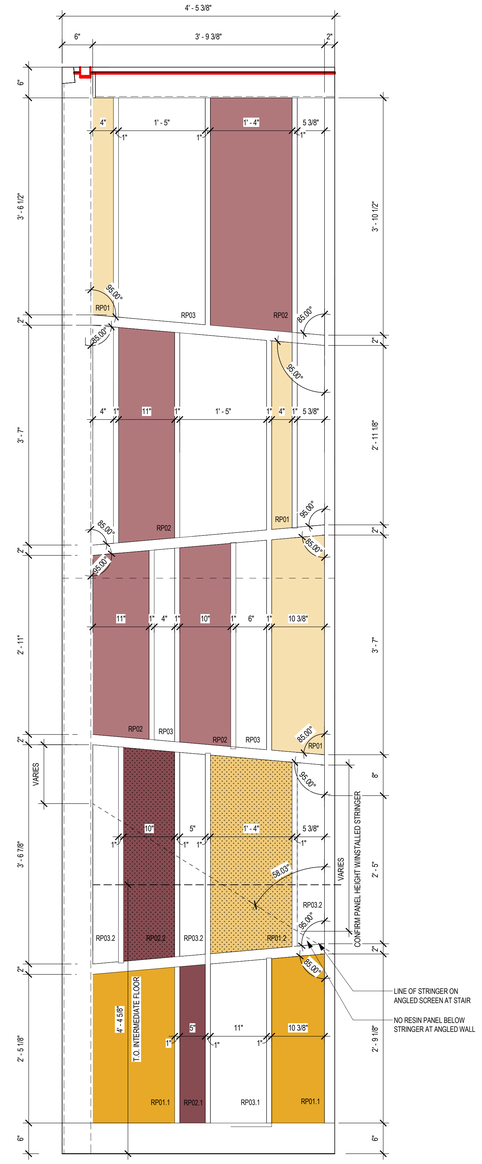
8 SECTION DETAIL - HORIZONTAL MULLION
1 1/2" = 1'-0" BACK REF: A4.34



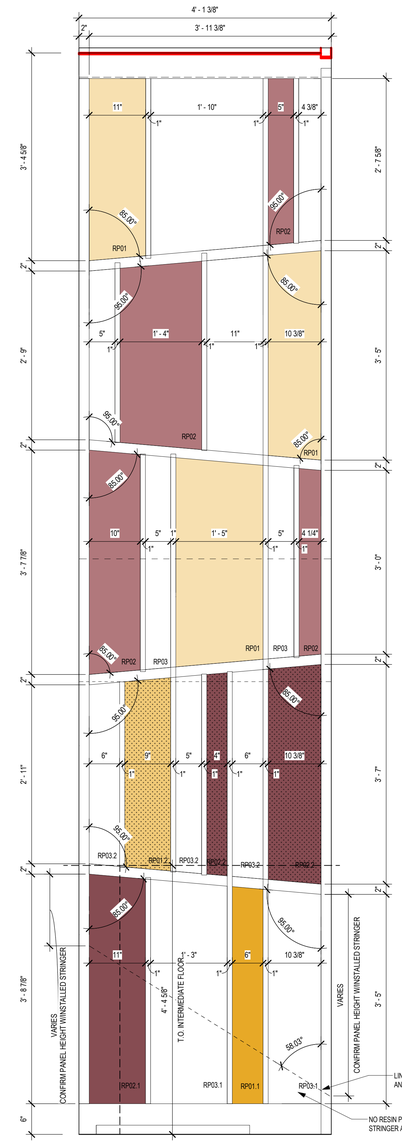
7 DETAIL- SLAB AT SCREEN
1 1/2" = 1'-0" BACK REF: A4.34



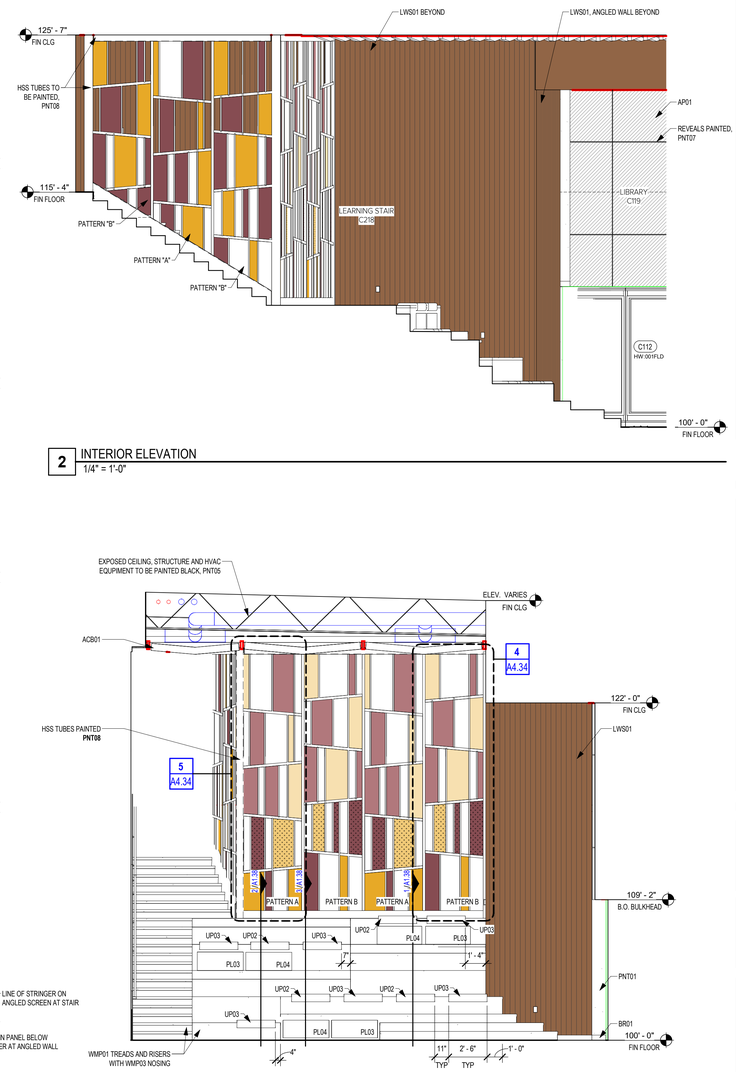
6 WALL SECTION AT SCREEN
1/2" = 1'-0"



5 ENLARGED SCREEN PATTERN A
1" = 1'-0"



4 ENLARGED SCREEN PATTERN B
1" = 1'-0"



3 INTERIOR ELEVATION
1/4" = 1'-0"

2 INTERIOR ELEVATION
1/4" = 1'-0"

1 INTERIOR ELEVATION - LIBRARY - NORTH
1/4" = 1'-0"

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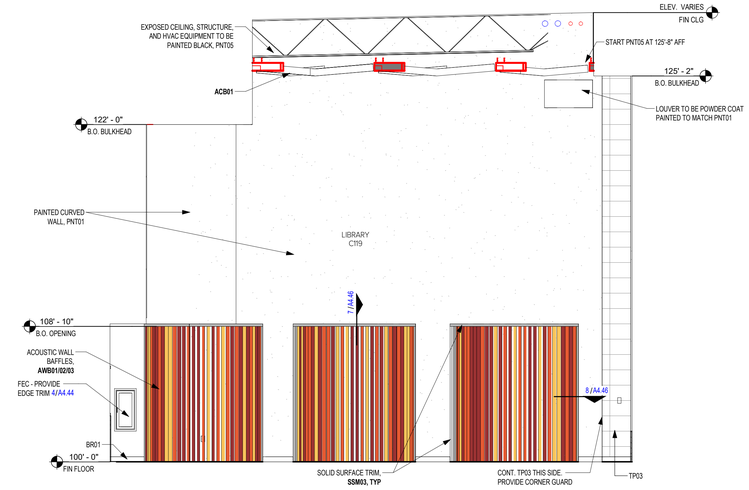

3 INTERIOR ELEV - GRAPHIC - LIBRARY
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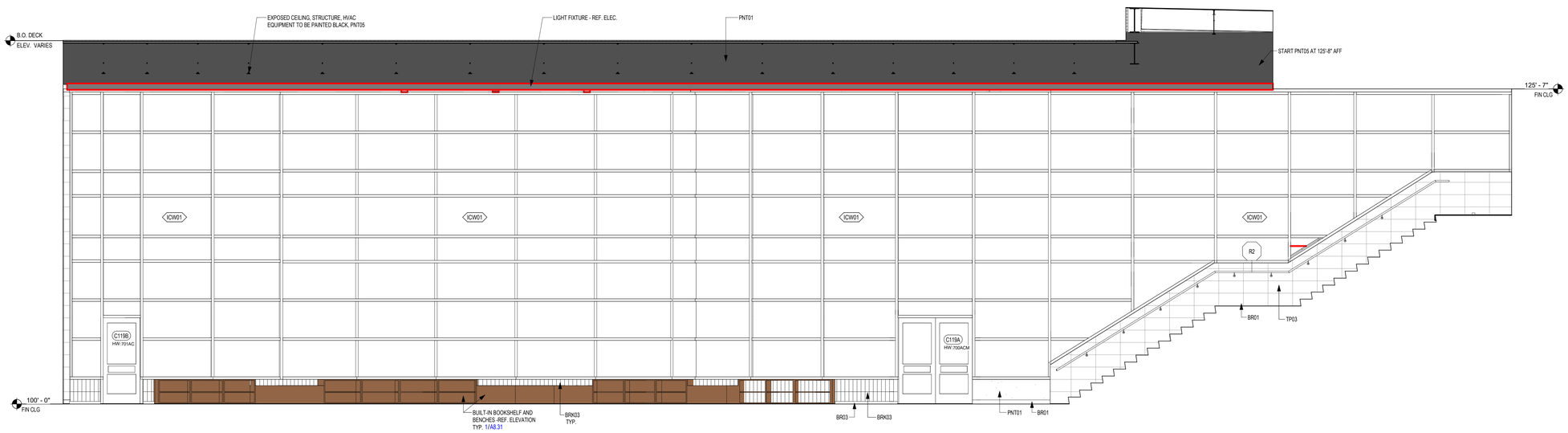
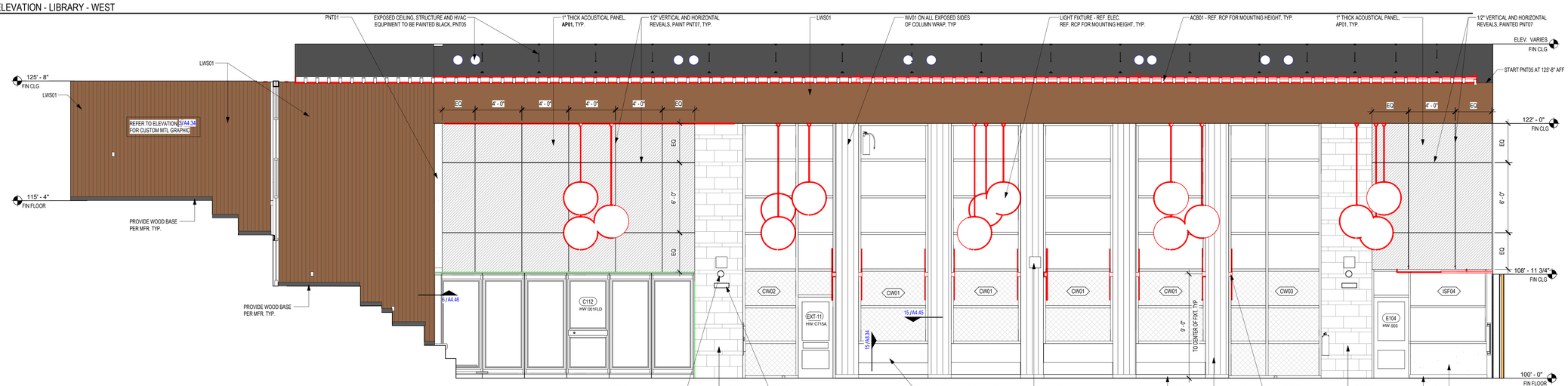


2 INTERIOR ELEVATION - LIBRARY - WEST
1/4" = 1'-0"



1 INTERIOR ELEVATION - LIBRARY - EAST
1/4" = 1'-0"

Project:
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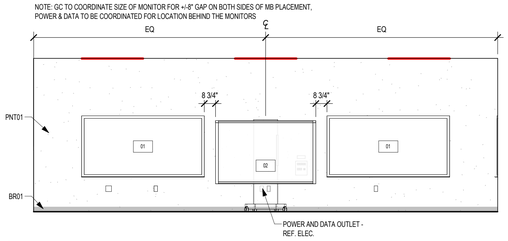
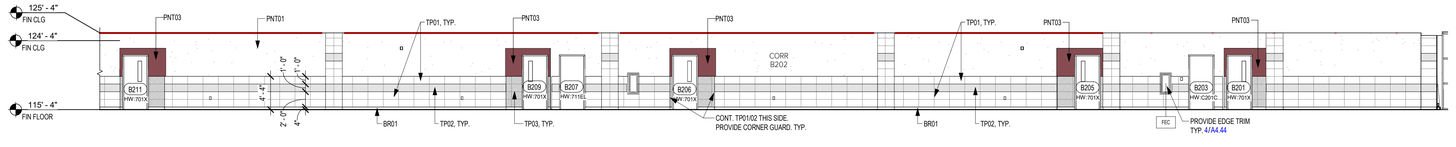
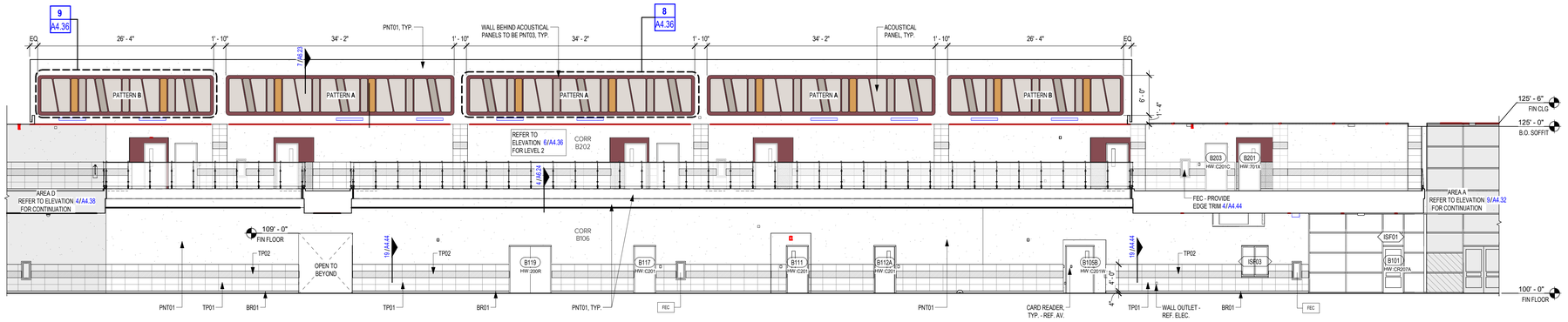


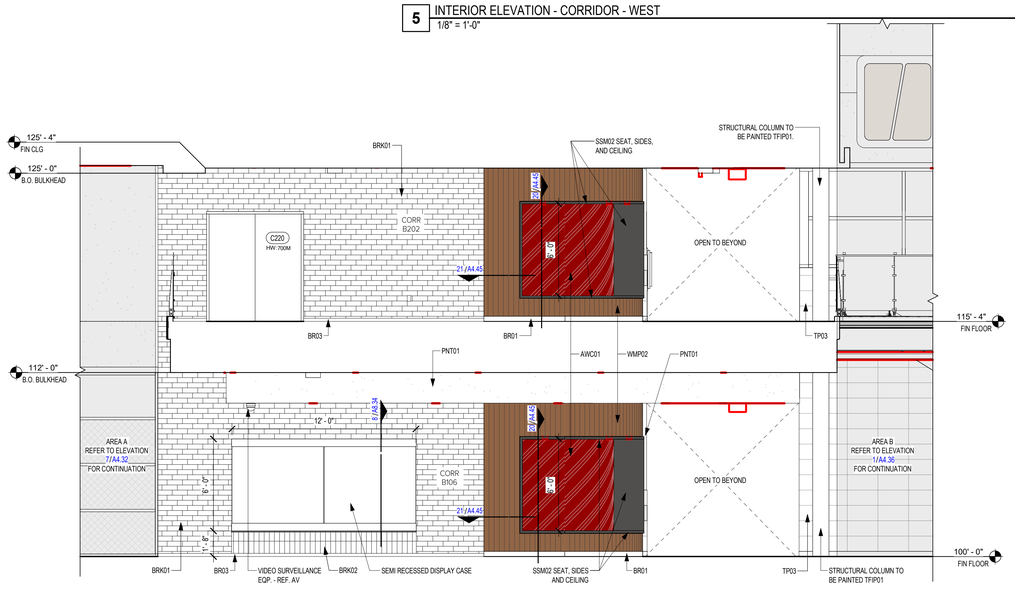
2 INTERIOR ELEVATION - TYPICAL TEACHING WALL
1/4" = 1'-0"



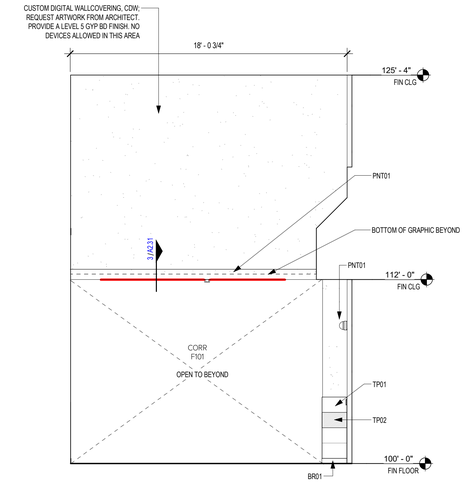
6 INTERIOR ELEVATION - CORRIDOR - WEST
1/8" = 1'-0"



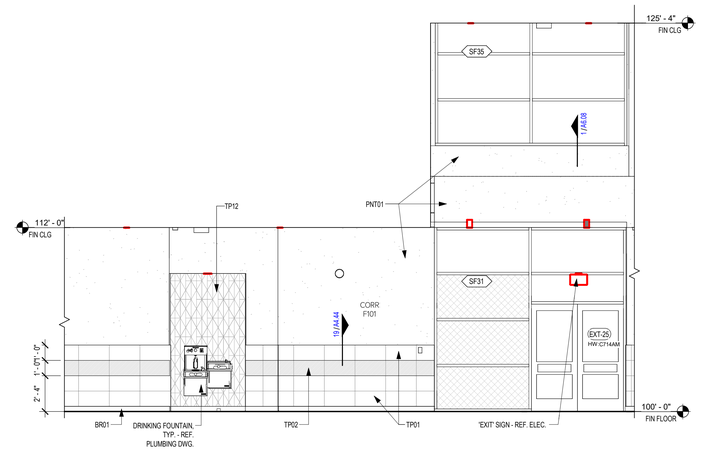
5 INTERIOR ELEVATION - CORRIDOR - WEST
1/8" = 1'-0"



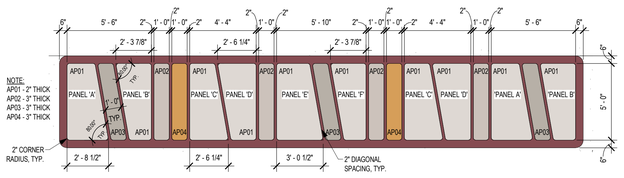
4 INTERIOR ELEVATION - CORRIDOR - EAST AT BENCH
1/4" = 1'-0"



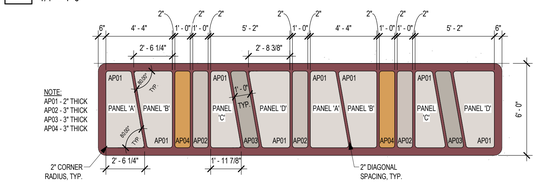
7 INTERIOR ELEVATION - GRAPHIC
1/4" = 1'-0"



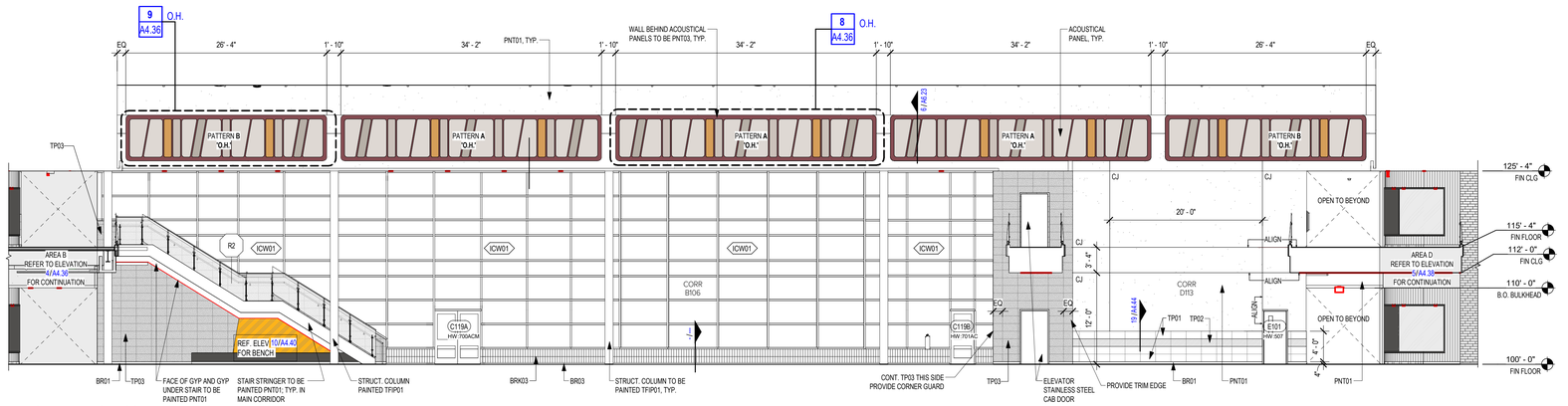
3 INTERIOR ELEVATION
1/4" = 1'-0"



8 ENLARGED ACOUSTICAL PANELS - PATTERN A
1/4" = 1'-0"



9 ENLARGED ACOUSTICAL PANELS - PATTERN B
1/4" = 1'-0"



1 INTERIOR ELEVATION - CORRIDOR - EAST
1/8" = 1'-0"

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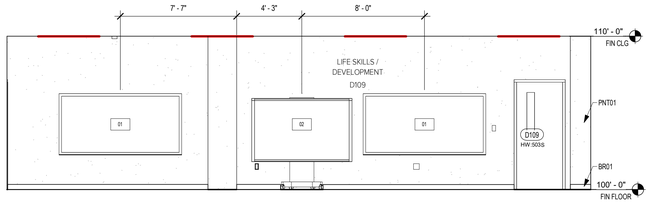

8 INTERIOR ELEVATION - TEACHING WALL
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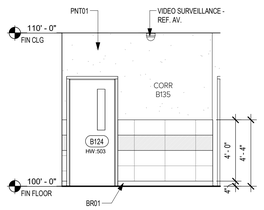
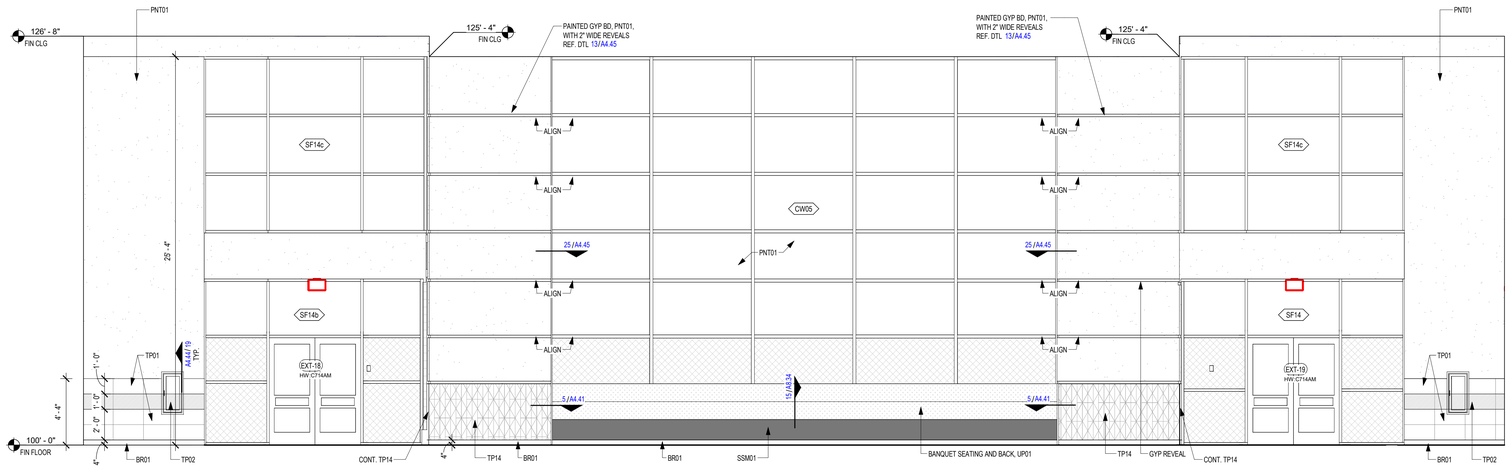
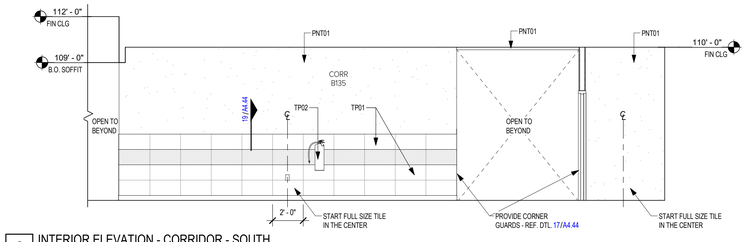


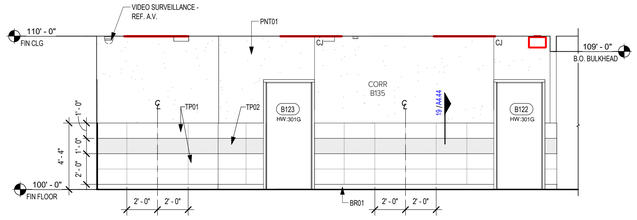
7 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"



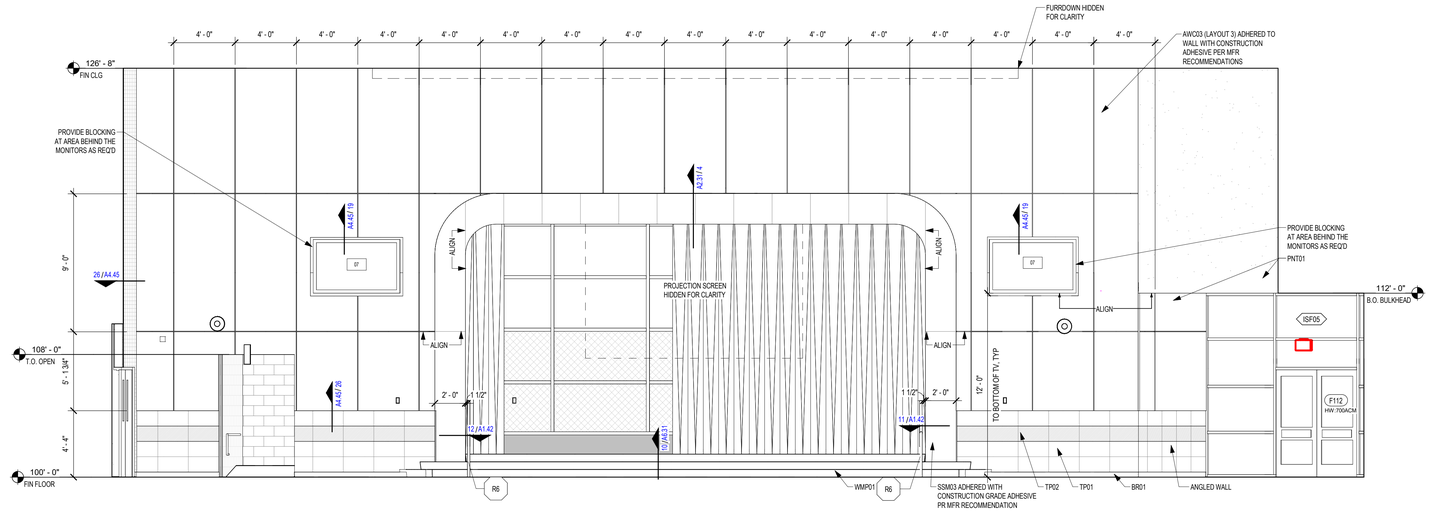
4 INTERIOR ELEVATION - DINING - SOUTH
1/4" = 1'-0"



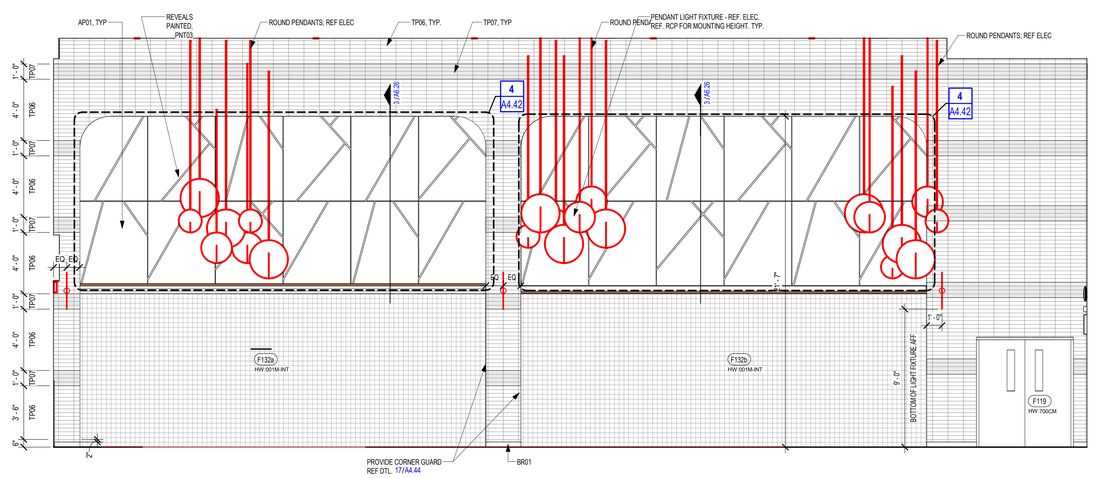
6 INTERIOR ELEVATION - CORRIDOR - SOUTH
1/4" = 1'-0"



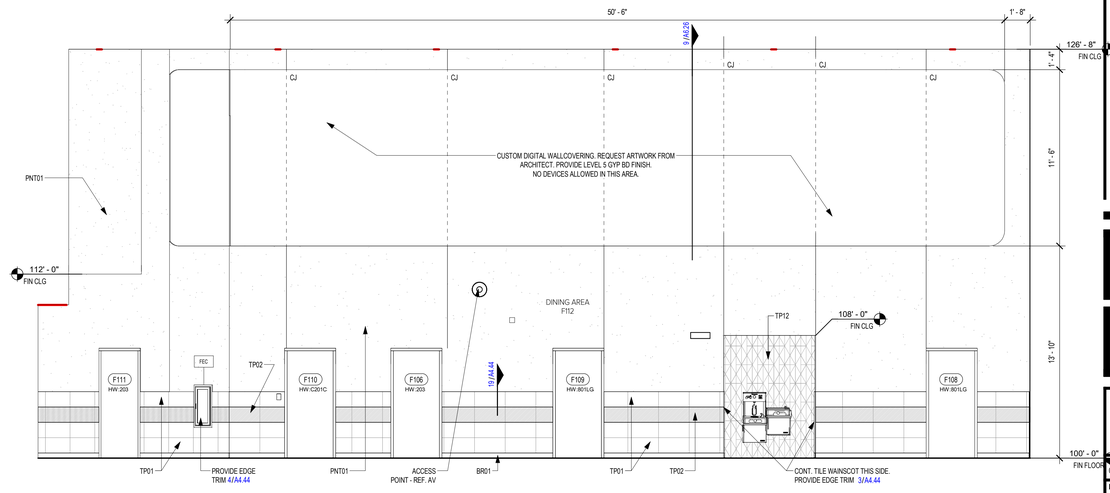
5 INTERIOR ELEVATION - CORRIDOR - NORTH
1/4" = 1'-0"



3 INTERIOR ELEVATION - DINING AT STAGE
1/4" = 1'-0"



2 INTERIOR ELEVATION - DINING AT SERVING LINE
1/4" = 1'-0"



1 INTERIOR ELEVATION - DINING - EAST
1/4" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29304
STATE OF TEXAS
7/15/2026

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INTERIOR ELEVATIONS

VOLUME 01

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Drawn By: AS
Date: 07.15.26
Sheet No. A4.37

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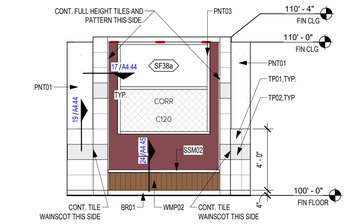
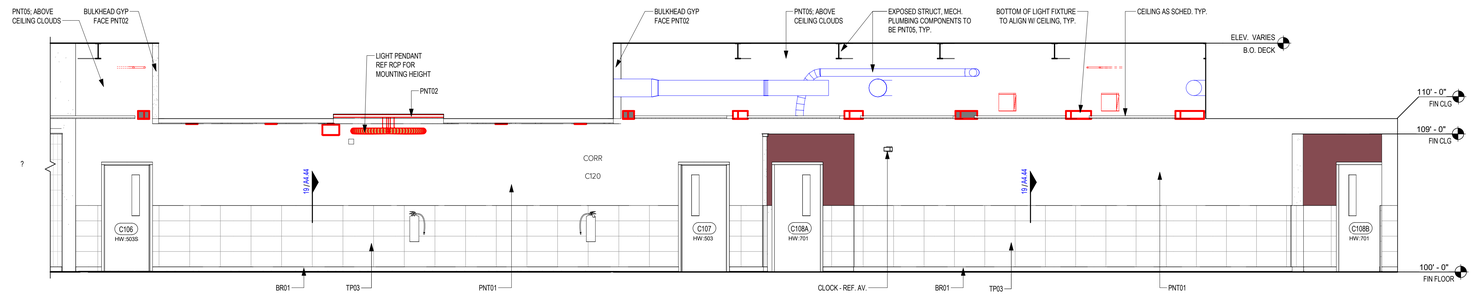
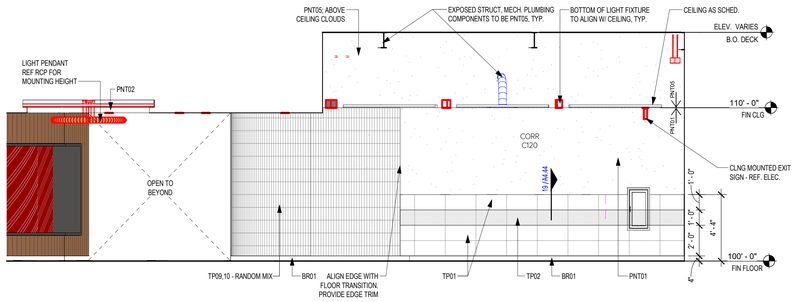


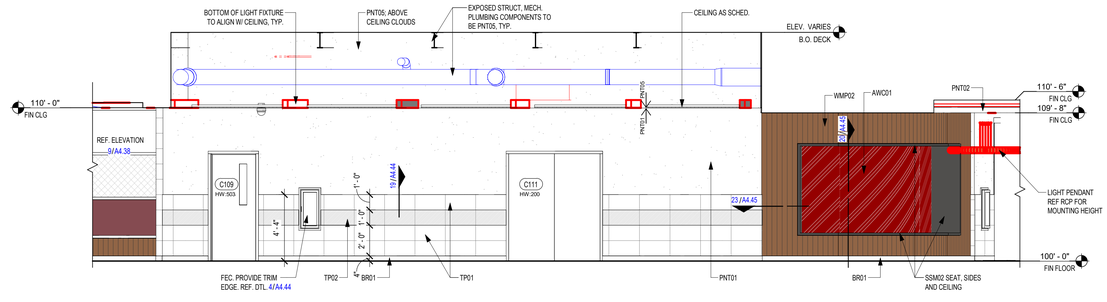
9 INTERIOR ELEVATION - BENCH AT CORRIDOR
1/4" = 1'-0"



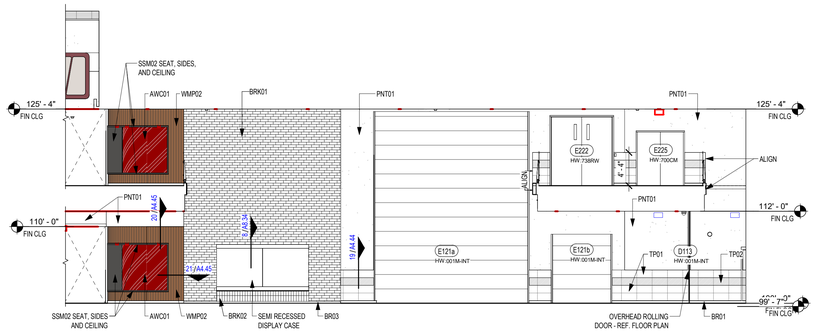
8 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"



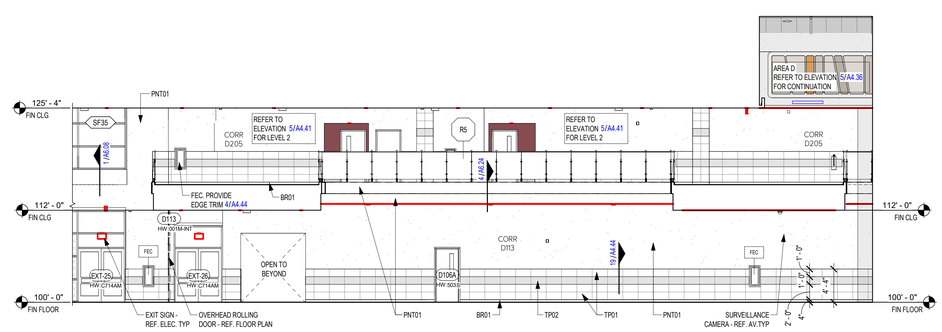
7 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"



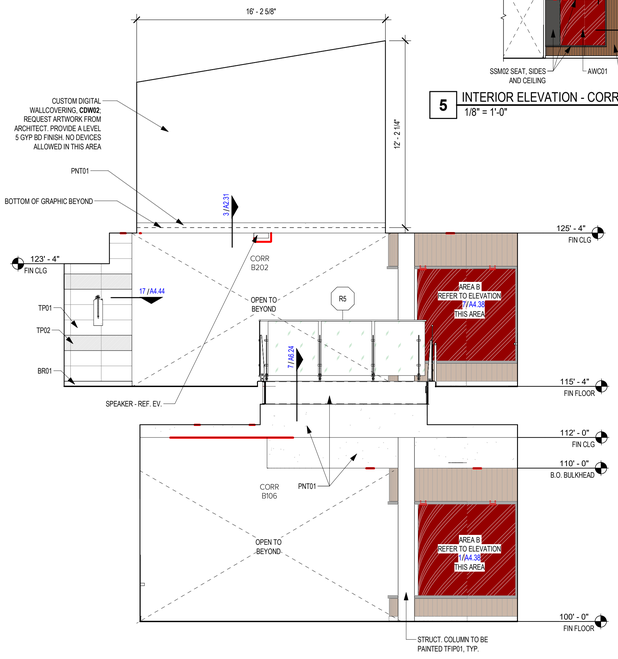
6 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"



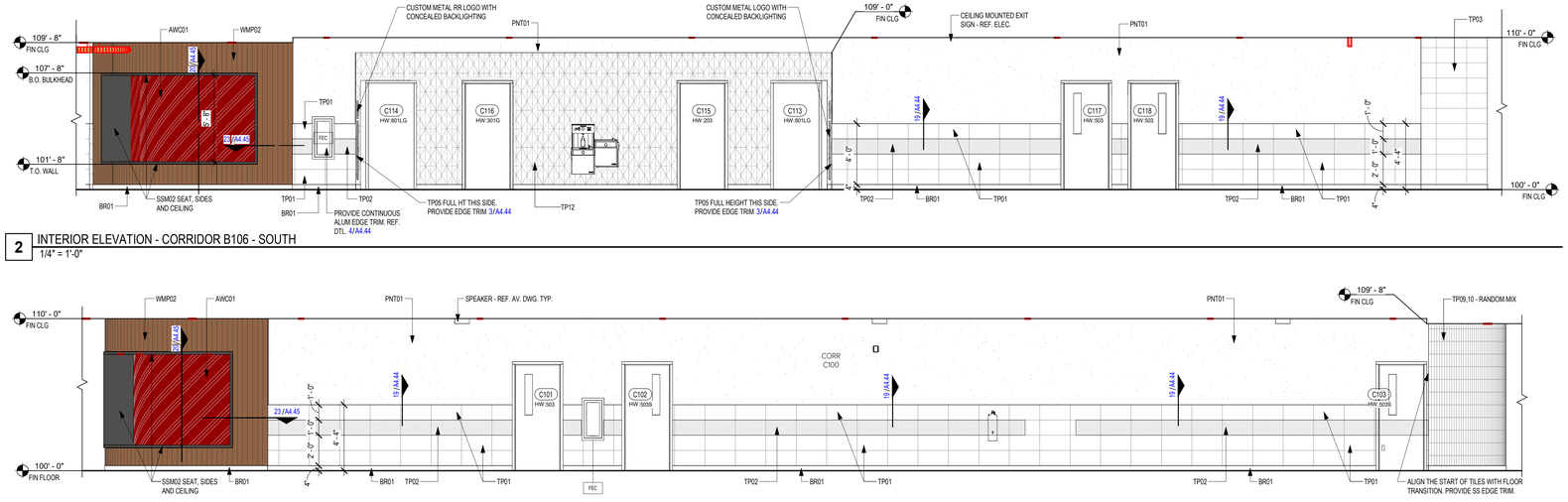
5 INTERIOR ELEVATION - CORRIDOR - EAST
1/8" = 1'-0"



4 INTERIOR ELEVATION - CORRIDOR - WEST
1/8" = 1'-0"



3 INTERIOR ELEVATION - CORRIDOR - NORTH
1/4" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR B106 - SOUTH
1/4" = 1'-0"

1 INTERIOR ELEVATION - CORRIDOR 106 - NORTH
1/4" = 1'-0"

Revision / Date

Project:
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FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
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INTERIOR ELEVATIONS

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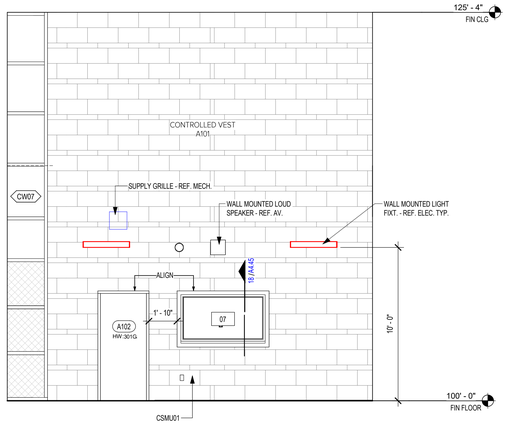
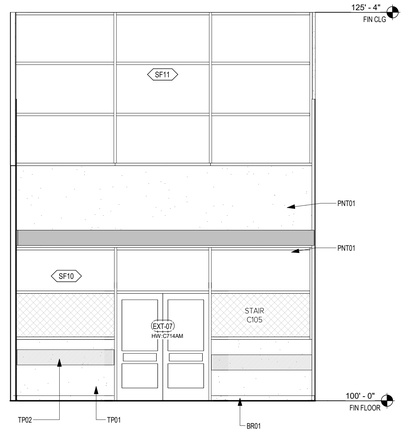
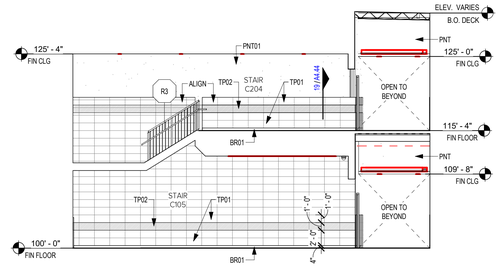
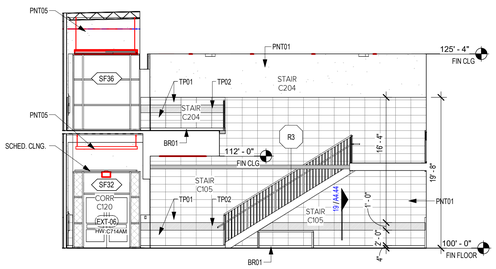






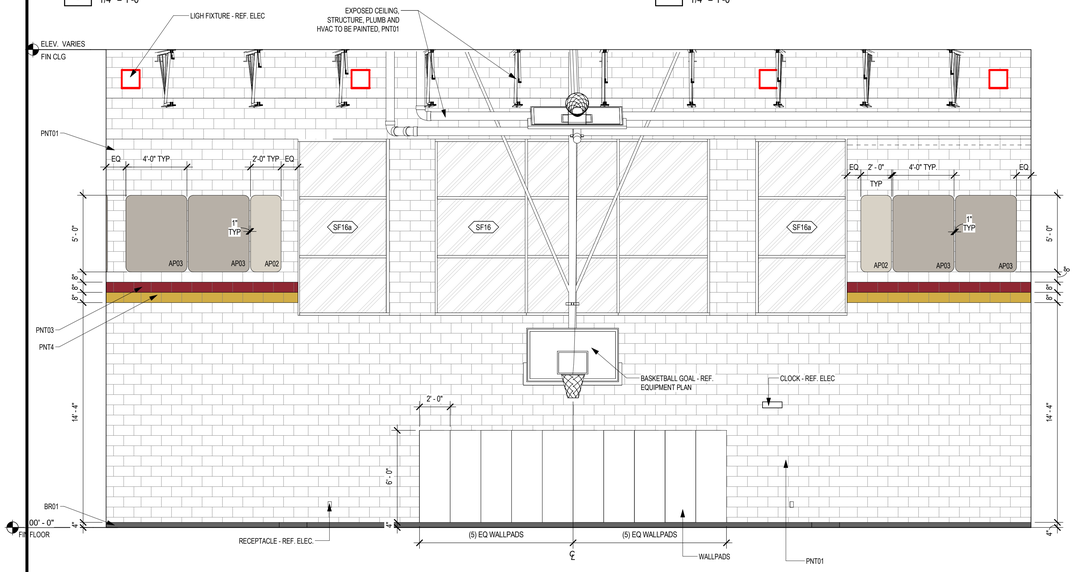
6 INTERIOR ELEVATION
1/8" = 1'-0"



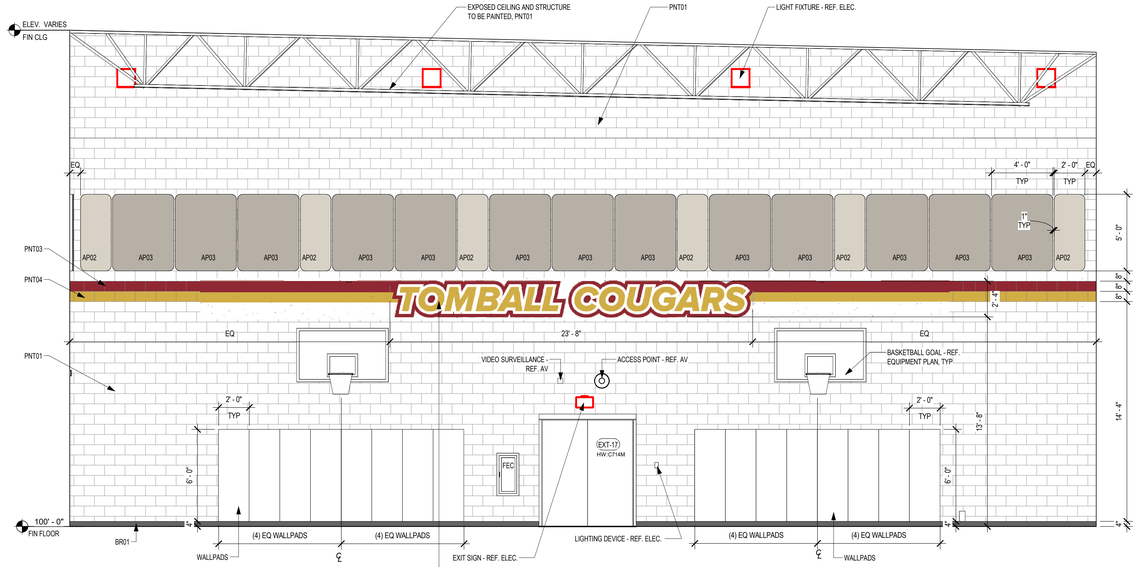
5 INTERIOR ELEVATION
1/8" = 1'-0"

8 INTERIOR ELEVATION - VESTIBULE - NORTH
1/4" = 1'-0"

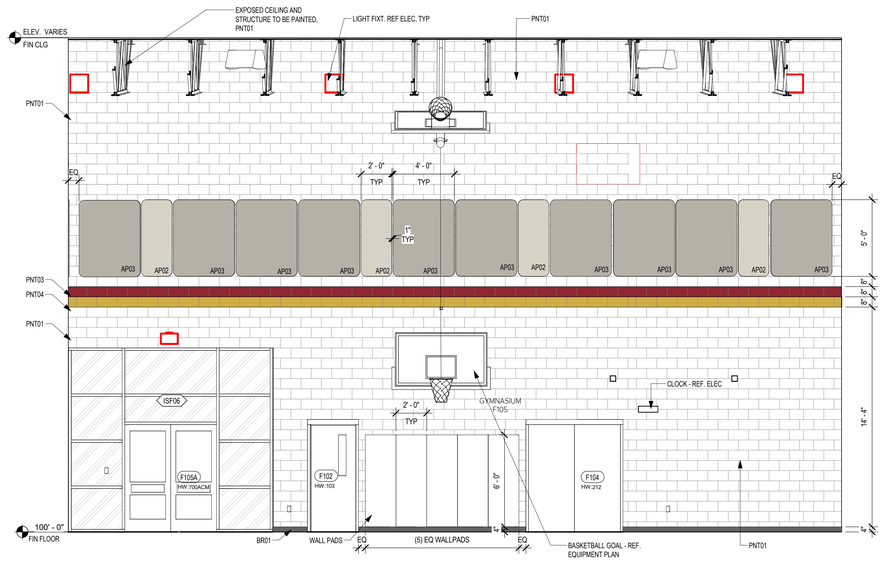
7 INTERIOR ELEVATION
1/4" = 1'-0"



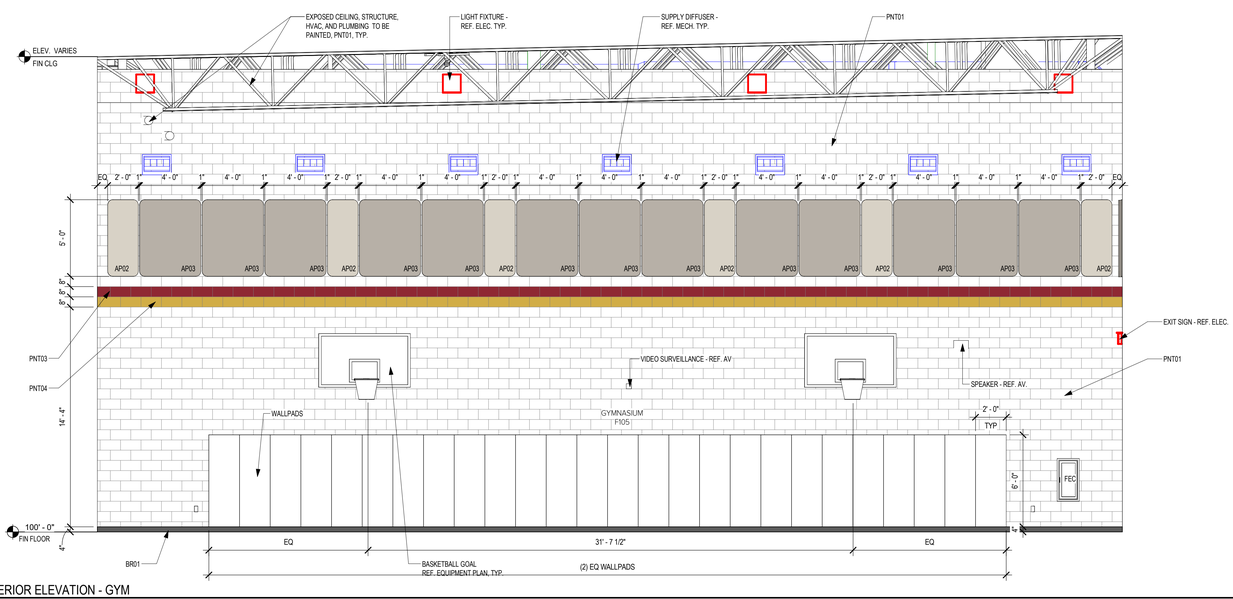
4 INTERIOR ELEVATION - GYM
1/4" = 1'-0"



3 INTERIOR ELEVATION - GYM
1/4" = 1'-0"



2 INTERIOR ELEVATION - GYM
1/4" = 1'-0"



1 INTERIOR ELEVATION - GYM
1/4" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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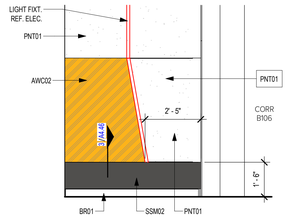
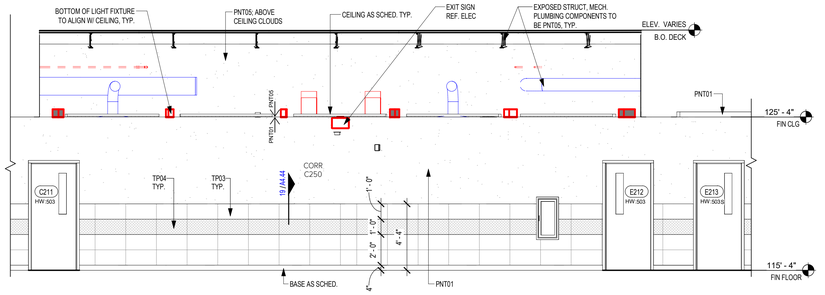
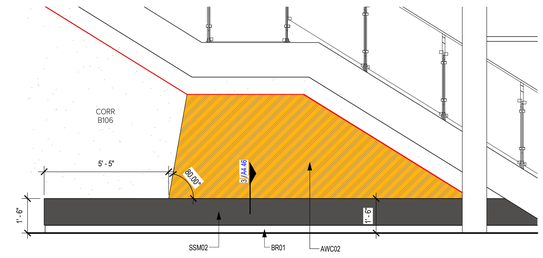


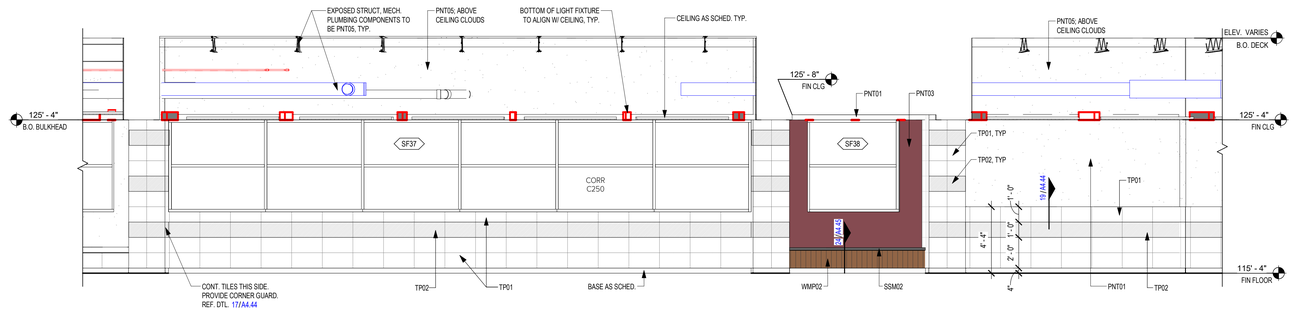
10 INT. ELEVATION - SEATING BENCH UNDER STAIRS
3/8" = 1'-0"



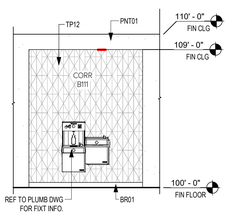
7 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"



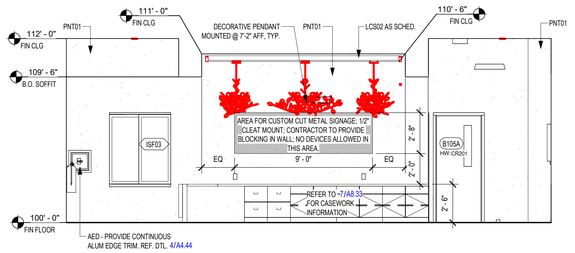
9 INTERIOR ELEVATION - SEATING BENCH UNDER STAIRS
3/8" = 1'-0"



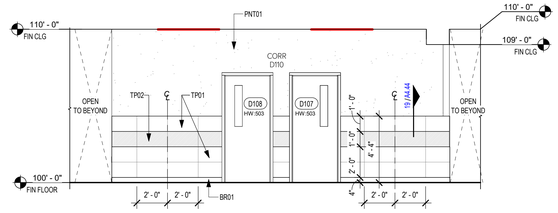
8 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"



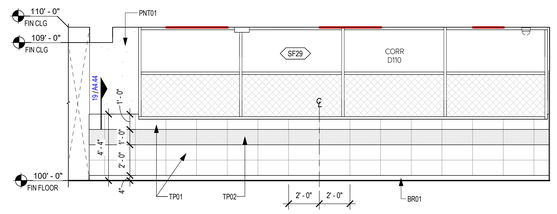
6 INTERIOR ELEVATION
1/4" = 1'-0"



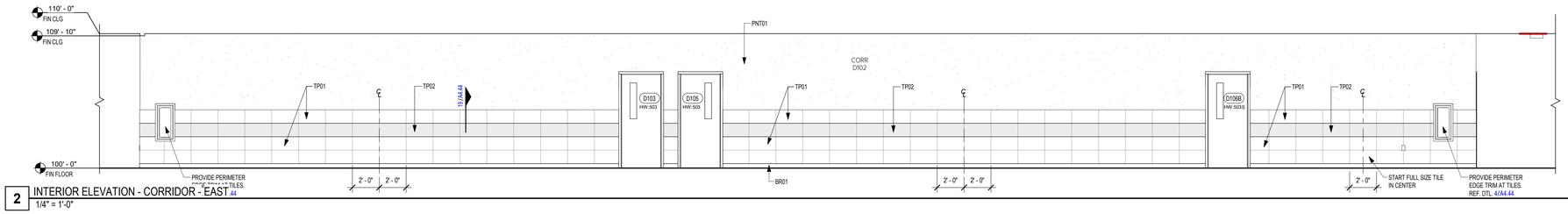
5 INTERIOR ELEVATION - RECEPTION - SOUTH
1/4" = 1'-0"



4 INTERIOR ELEVATION - CORRIDOR - NORTH
1/4" = 1'-0"

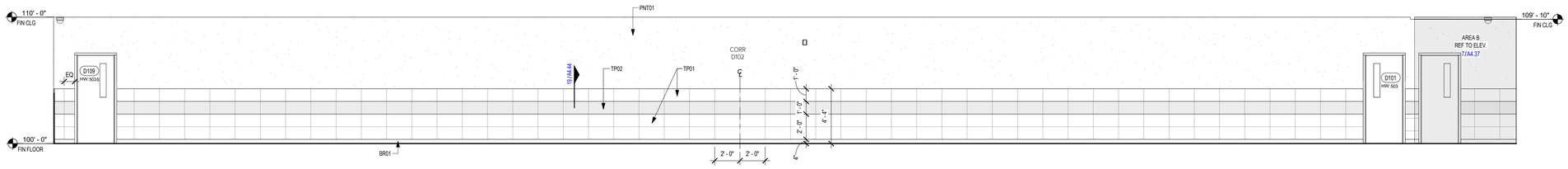


3 INTERIOR ELEVATION - CORRIDOR - SOUTH
1/4" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR - EAST A4

1/4" = 1'-0"



1 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"

Date

Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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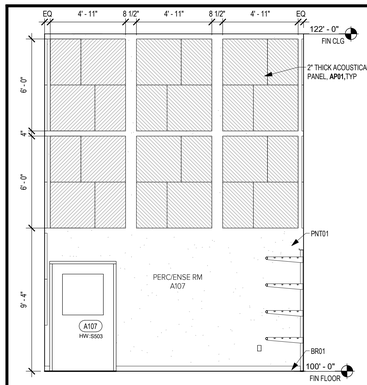
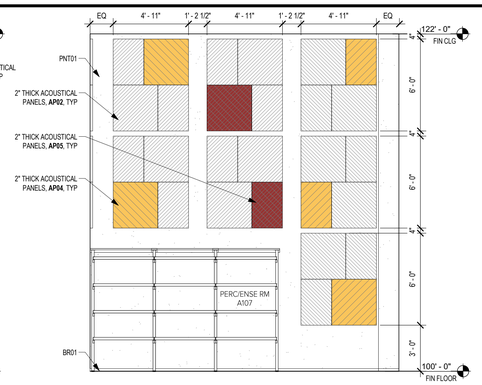
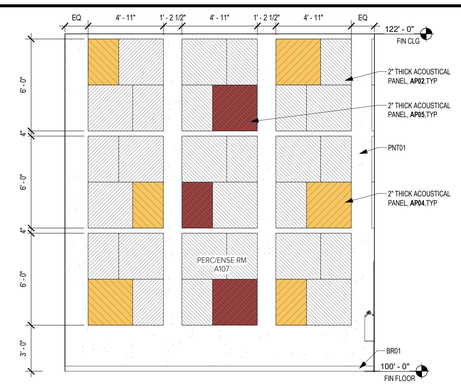


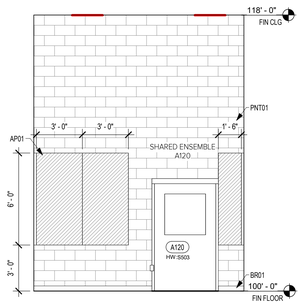
12 INTERIOR ELEVATION
1/4" = 1'-0"



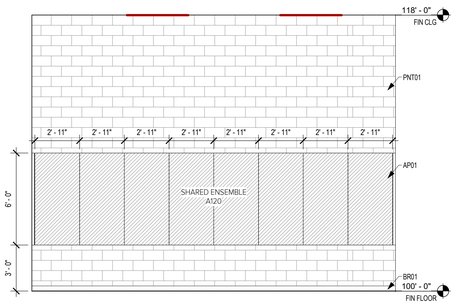
11 INTERIOR ELEVATION
1/4" = 1'-0"



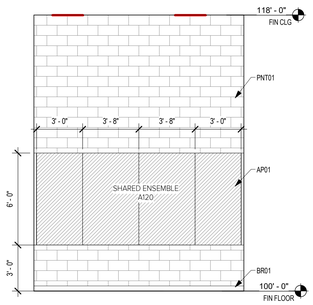
10 INTERIOR ELEVATION
1/4" = 1'-0"



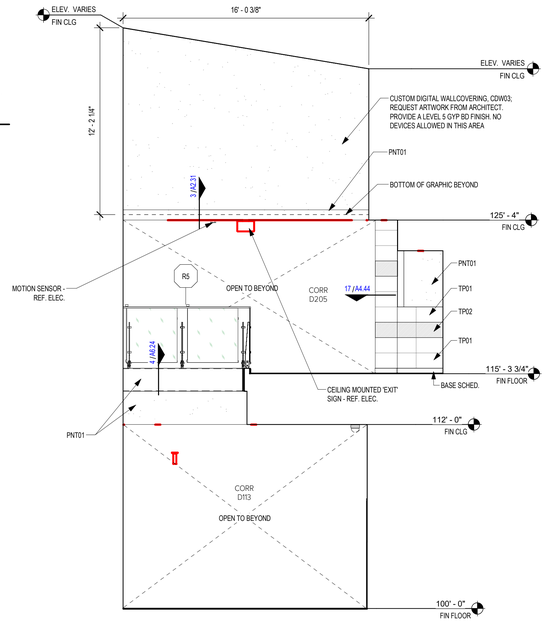
9 INTERIOR ELEVATION
1/4" = 1'-0"



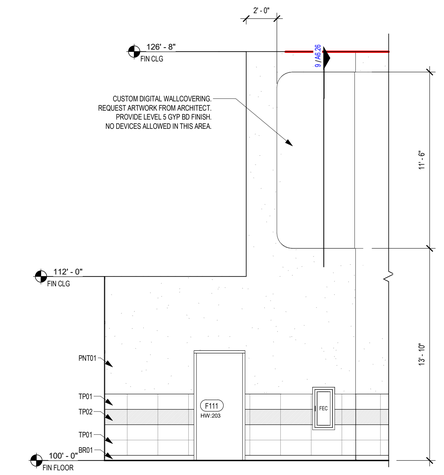
8 INTERIOR ELEVATION
1/4" = 1'-0"



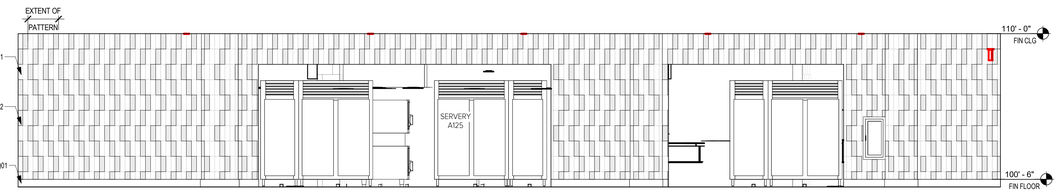
7 INTERIOR ELEVATION
1/4" = 1'-0"



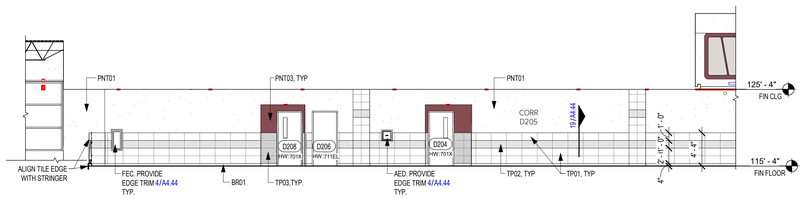
4 INTERIOR ELEVATION - CORRIDOR - SOUTH
1/4" = 1'-0"



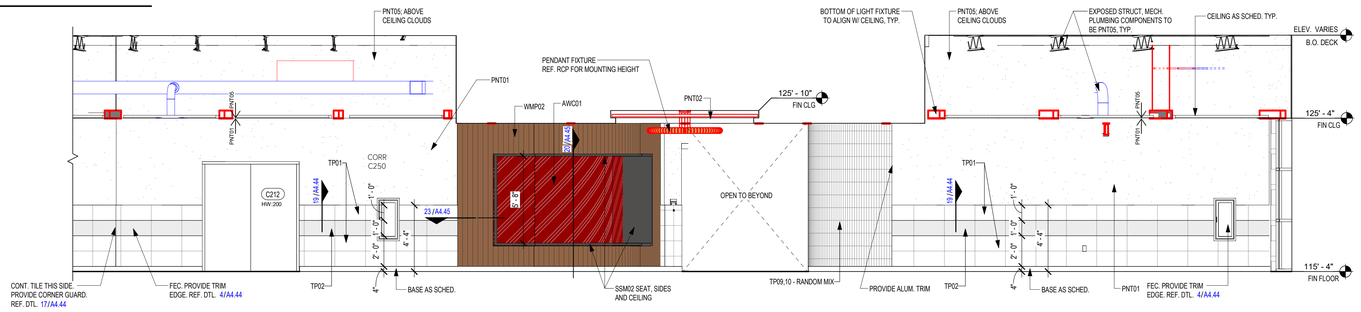
3 INTERIOR ELEVATION - DINING - EAST
1/4" = 1'-0"



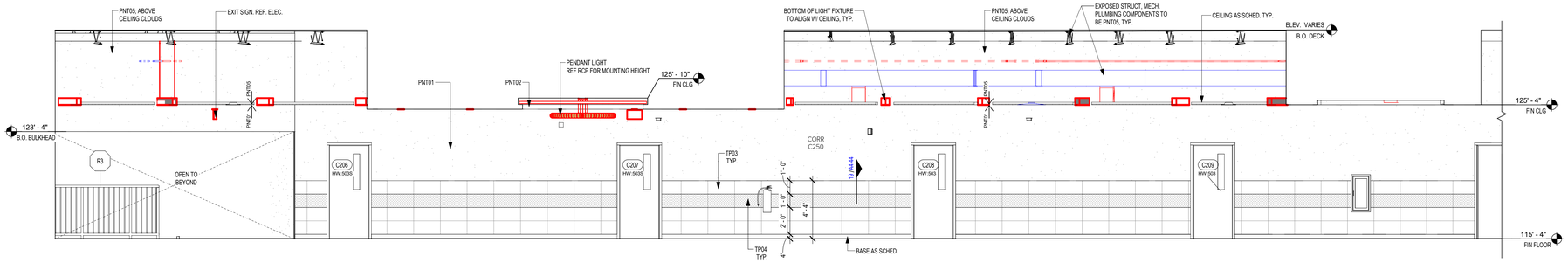
6 INTERIOR ELEVATION
1/4" = 1'-0"



5 INTERIOR ELEVATION - CORRIDOR - WEST
1/8" = 1'-0"



2 INTERIOR ELEVATION - CORRIDOR - WEST
1/4" = 1'-0"



1 INTERIOR ELEVATION - CORRIDOR - EAST
1/4" = 1'-0"

Date

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Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
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29 JULY 2025
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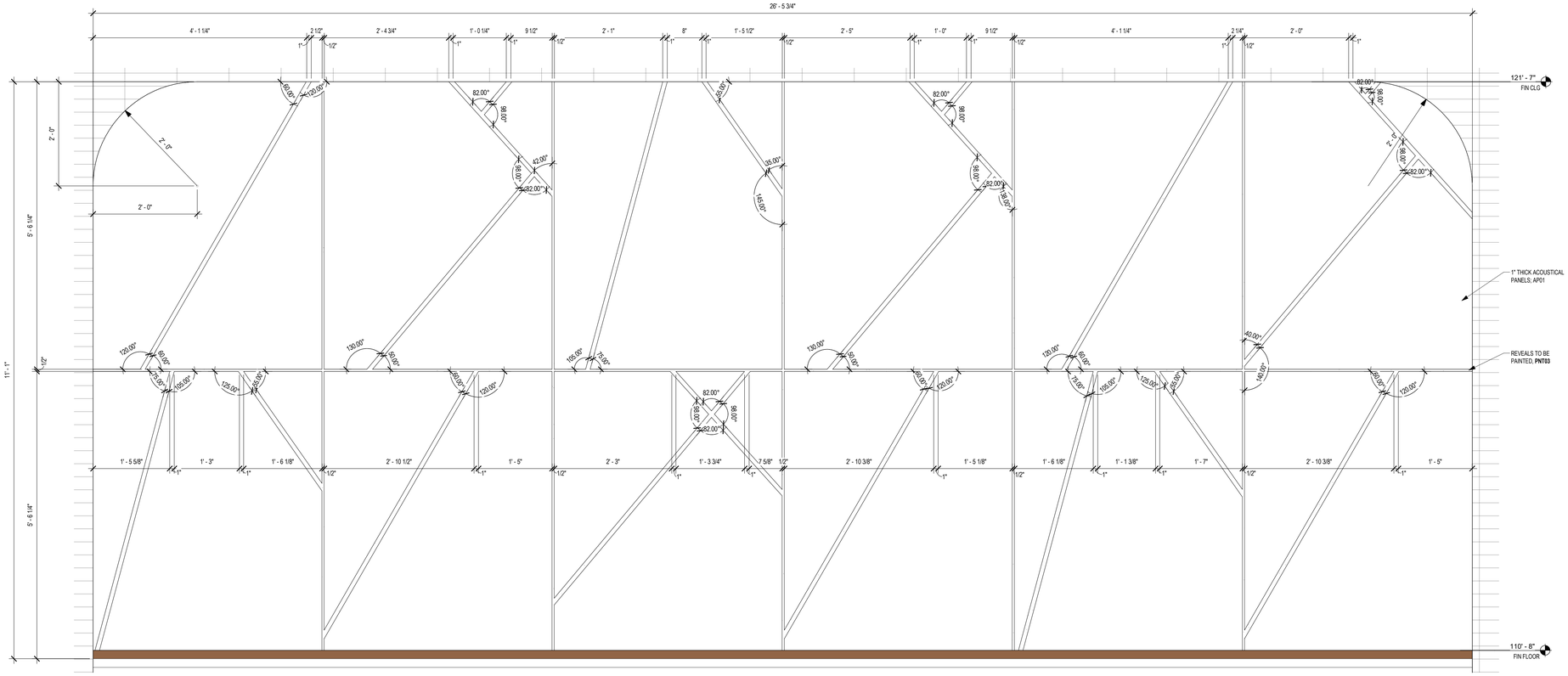
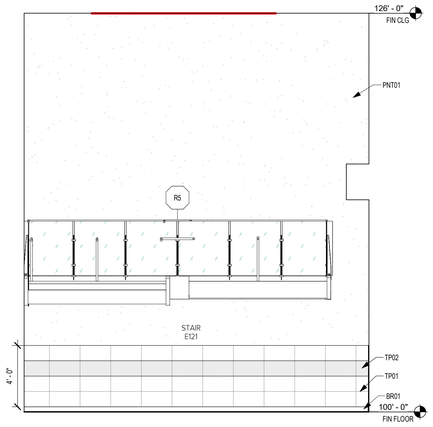
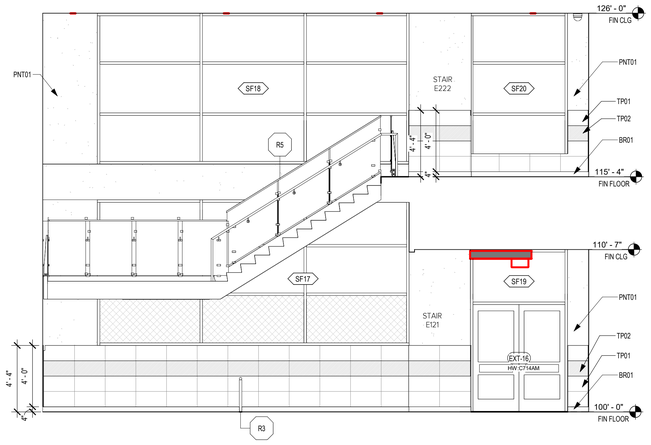


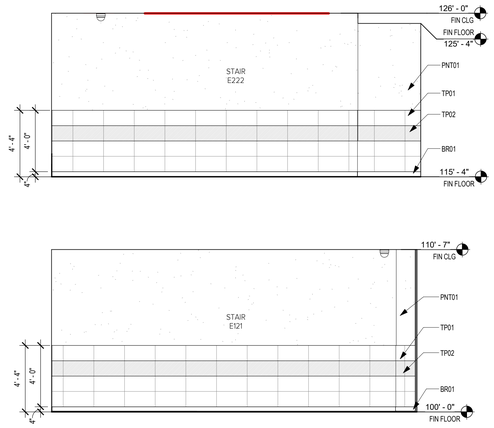
4 INTERIOR ELEVATION - SERVING LINE ACOUSTIC PANEL PATTERN
1" = 1'-0"



3 INTERIOR ELEVATION
1/4" = 1'-0"



2 INTERIOR ELEVATION
1/4" = 1'-0"



1 INTERIOR ELEVATION
1/4" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 TEXAS
STATE OF TEXAS
7/15/2026

Huckabee
www.huckabee-inc.com
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INTERIOR ELEVATIONS

VOLUME 01

Job No. 00802-04-01
Drawn By: MA, AS
Date: 07.15.26
Sheet No. A4.42

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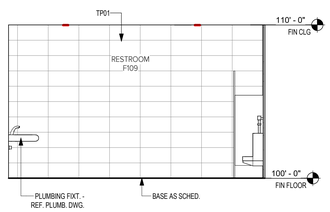
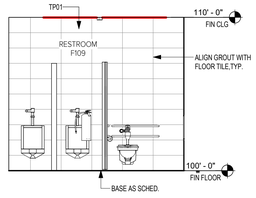
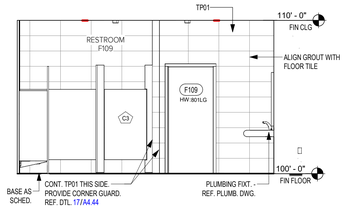


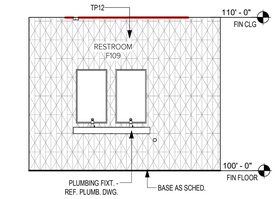
38 INTERIOR ELEVATION - RESTROOM - EAST
1/4" = 1'-0"



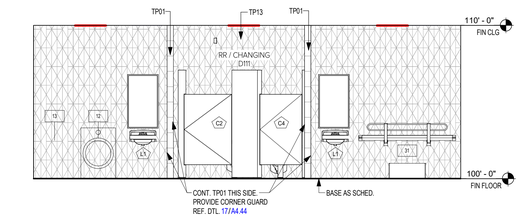
35 INTERIOR ELEVATION - RESTROOM - SOUTH
1/4" = 1'-0"



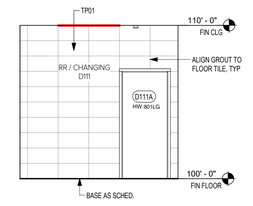
31 INTERIOR ELEVATION - RESTROOM - WEST
1/4" = 1'-0"



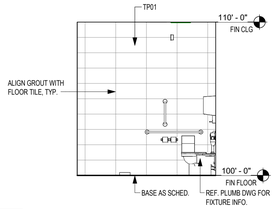
36 INTERIOR ELEVATION - RESTROOM - NORTH
1/4" = 1'-0"



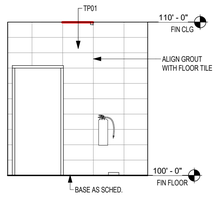
39 INT. ELEV. - LIFE SKILLS RR/CHANGING - WEST
1/4" = 1'-0"



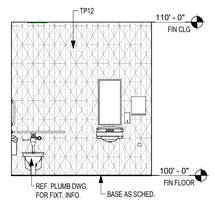
37 INT. ELEV. - LIFE SKILLS RR/CHANGING - NORTH
1/4" = 1'-0"



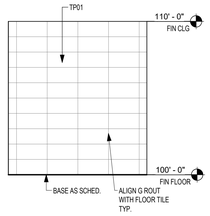
29 TYP. STAFF RR ELEV.
1/4" = 1'-0"



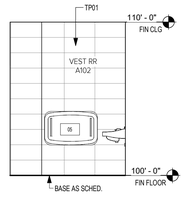
28 TYP. STAFF RR ELEV.
1/4" = 1'-0"



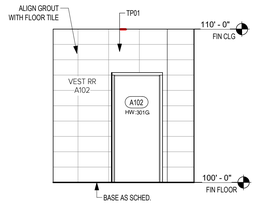
27 INT. ELEV - RESTROOM - SOUTH
1/4" = 1'-0"



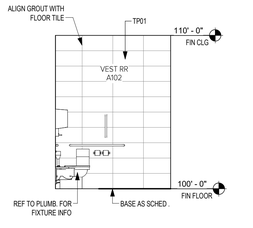
26 TYP. STAFF RR ELEV.
1/4" = 1'-0"



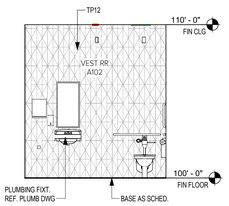
25 INTERIOR ELEVATION - RESTROOM - WEST
1/4" = 1'-0"



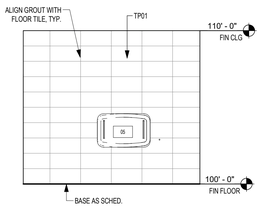
24 INTERIOR ELEVATION - RESTROOM - SOUTH
1/4" = 1'-0"



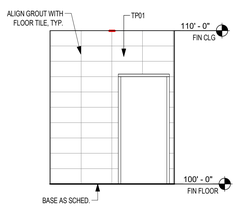
23 INTERIOR ELEVATION - RESTROOM - EAST
1/4" = 1'-0"



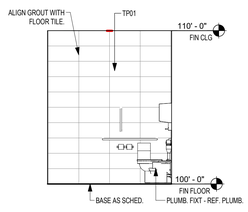
22 INTERIOR ELEVATION - RESTROOM - NORTH
1/4" = 1'-0"



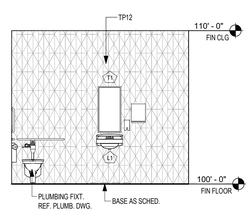
21 TYP. SINGLE RR ELEV.
1/4" = 1'-0"



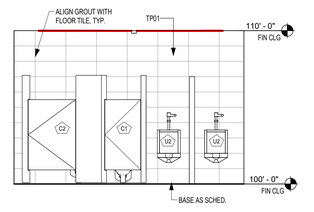
20 TYP. SINGLE RR ELEV.
1/4" = 1'-0"



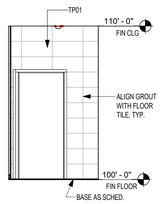
19 TYP. SINGLE RR ELEV.
1/4" = 1'-0"



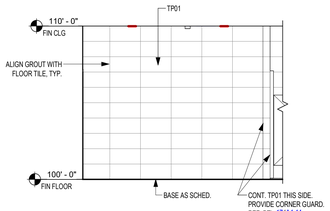
18 TYP. SINGLE RR ELEV.
1/4" = 1'-0"



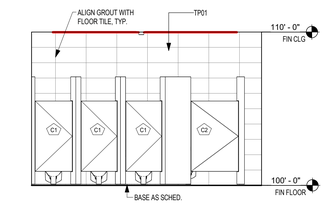
17 INT. ELEV. - TYP. BOYS RESTROOM
1/4" = 1'-0"



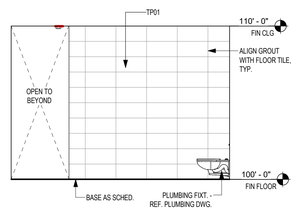
16 INT. ELEV - TYP. STUDENT RESTROOM
1/4" = 1'-0"



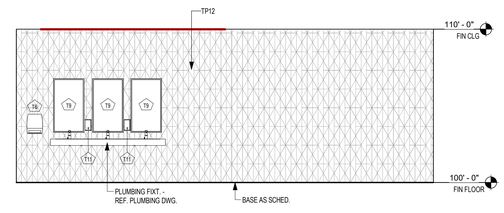
15 INT. ELEV. - TYP. STUDENT RESTROOMS
1/4" = 1'-0"



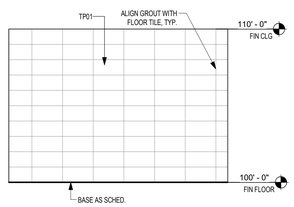
14 INT. ELEV - TYP. GIRLS RESTROOM
1/4" = 1'-0"



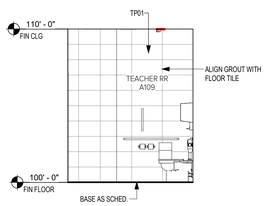
13 INT. ELEV - TYP. STUDENT RESTROOM
1/4" = 1'-0"



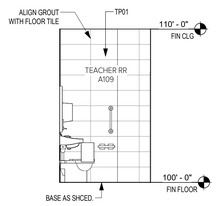
12 INT. ELEV - TYP. STUDENT RESTROOM
1/4" = 1'-0"



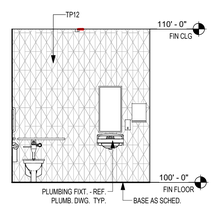
11 INT. ELEV - TYP. GIRLS RESTROOM
1/4" = 1'-0"



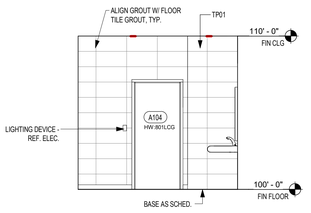
10 INTERIOR ELEVATION - RESTROOM - SOUTH
1/4" = 1'-0"



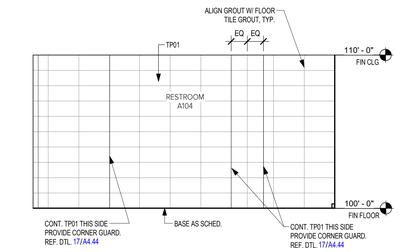
9 INTERIOR ELEVATION - TOILET - NORTH
1/4" = 1'-0"



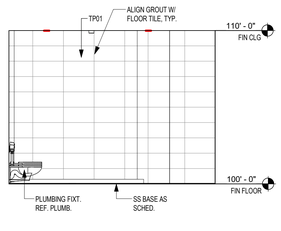
8 TYP. SINGLE RR ELEV.
1/4" = 1'-0"



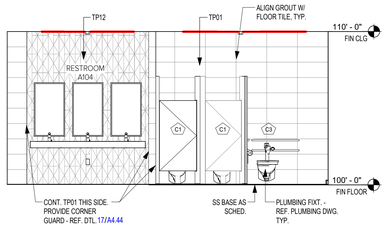
7 INTERIOR ELEVATION - RESTROOM - WEST
1/4" = 1'-0"



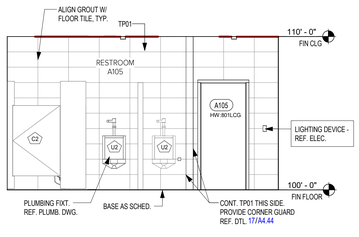
6 INTERIOR ELEVATION - RESTROOM - SOUTH
1/4" = 1'-0"



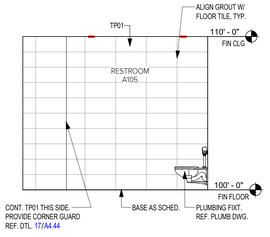
5 INTERIOR ELEVATION - RESTROOM - EAST
1/4" = 1'-0"



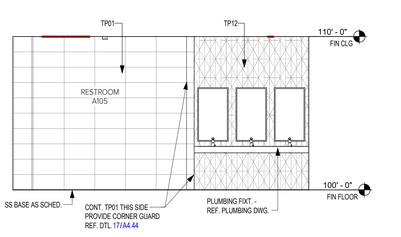
4 INTERIOR ELEVATION - RESTROOM - NORTH
1/4" = 1'-0"



3 INTERIOR ELEVATION - RESTROOM - WEST
1/4" = 1'-0"



2 INTERIOR ELEVATION - RESTROOM - SOUTH
1/4" = 1'-0"



1 INTERIOR ELEVATION - RESTROOM - NORTH
1/4" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 YEARS
STATE OF TEXAS
7/15/2026

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RR ELEVATIONS
VOLUME 01

Job No. 00802-04-01	Sheet No. A4.43
Drawn By: MA, AS	
Date: 07.15.26	

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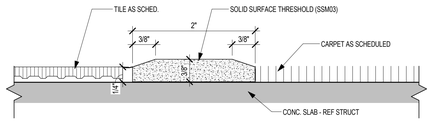
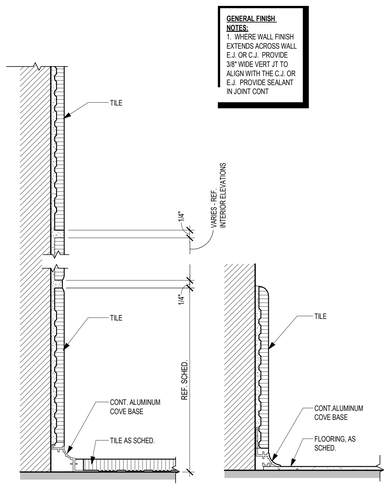
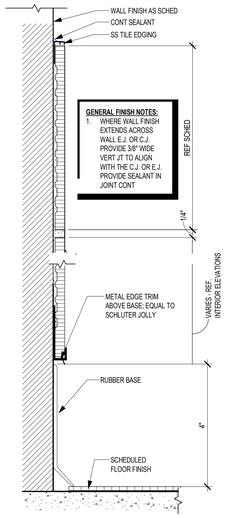


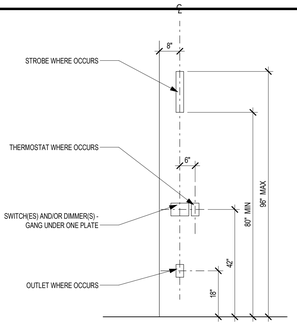
23 TRANSITION - SOLID SURFACE THRESHOLD - TILE TO RESILIENT
12" = 1'-0"



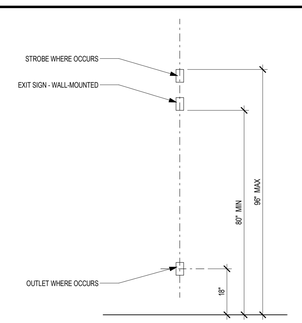
20 TYP. TILE ALUMINUM COVE BASE
6" = 1'-0"



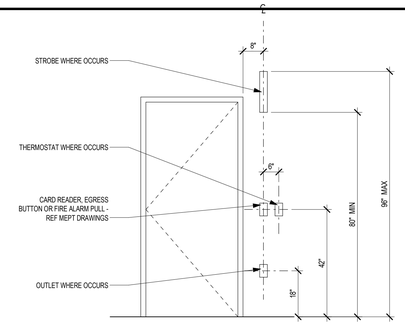
19 RUBBER BASE W/ TILE WAINSCOT
6" = 1'-0"



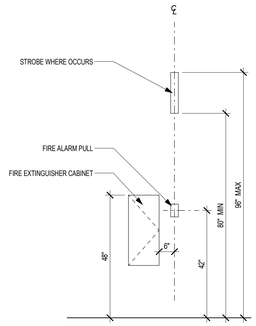
LOCATIONS AT CORNERS



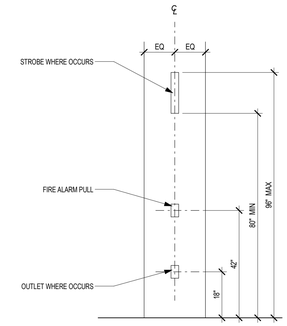
LOCATIONS AT WALL-MOUNTED EXIT SIGNS



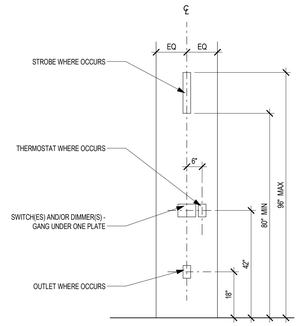
LOCATIONS AT DOOR JAMB - CARD READERS, ETC.



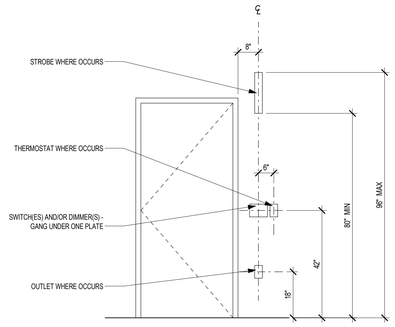
LOCATIONS AT FIRE EXTINGUISHER CABINET



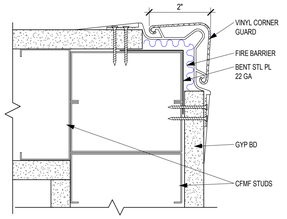
LOCATIONS AT COLUMNS & BETWEEN DOORS - FIRE ALARM PULLS



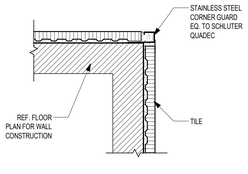
LOCATIONS AT COLUMNS & BETWEEN DOORS - SWITCHES



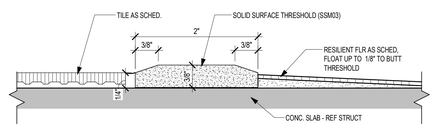
LOCATIONS AT DOOR JAMB - SWITCHES



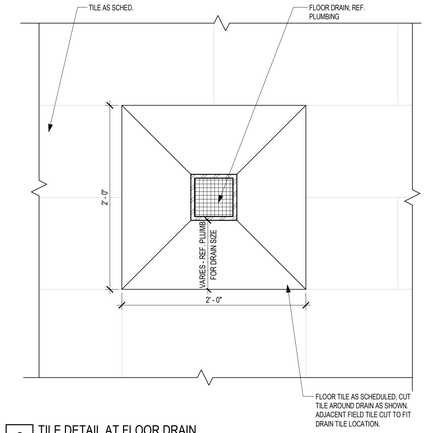
18 VINYL CORNER GUARD - FLUSH
6" = 1'-0"



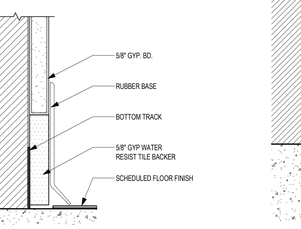
17 TYP TILE CORNER DETAIL
6" = 1'-0"



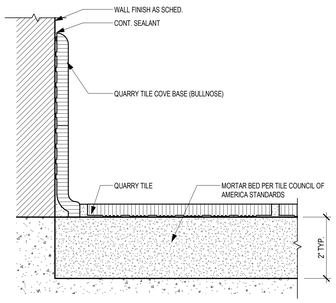
21 TRANSITION - SOLID SURFACE THRESHOLD - TILE TO RESILIENT
12" = 1'-0"



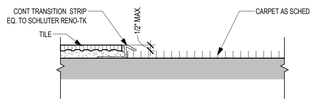
6 TILE DETAIL AT FLOOR DRAIN
1 1/2" = 1'-0"



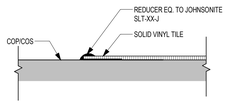
16 TYPICAL DRYWALL DETAIL @ BASE
6" = 1'-0"



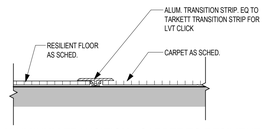
15 TYP QUARRY TILE BASE - THICK SET
6" = 1'-0"



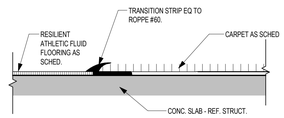
14 TRANSITION - CARPET TO TILE
6" = 1'-0"



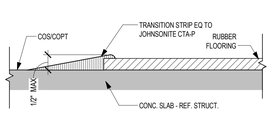
13 TRANSITION - VINYL TILE TO CONC
6" = 1'-0"



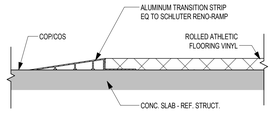
12 ALUMINUM TRANSITION - CARPET TO RESILIENT
6" = 1'-0"



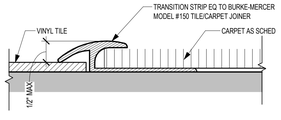
9 RUBBER TRANSITION - CARPET TO RESILIENT
6" = 1'-0"



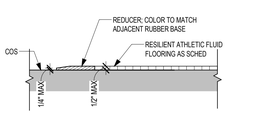
11 TRANSITION - RUBBER TO CONC
6" = 1'-0"



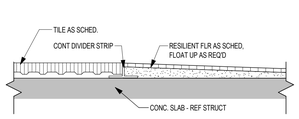
10 TRANSITION - RAFV TO CONC
6" = 1'-0"



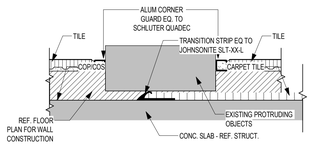
8 TRANSITION - CARPET TO VINYL TILE
6" = 1'-0"



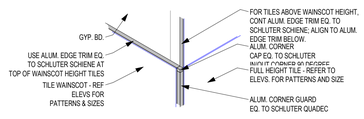
7 TRANSITION - RESILIENT TO CONC
6" = 1'-0"



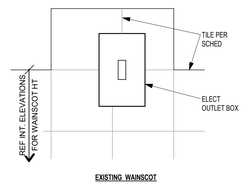
5 TRANSITION STRIP - TILE TO RESILIENT
12" = 1'-0"



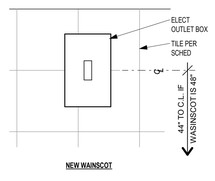
4 TYP TILE DETAIL @ EXIST PROTRUDING OBJECTS
6" = 1'-0"



3 TYP. ISOMETRIC OF ALUM. TRIM @ WAINSCOT TILE TO FULL HEIGHT TILE
1 1/2" = 1'-0"

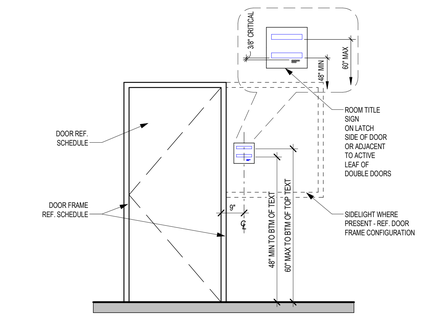


EXISTING WAINSCOT



NEW WAINSCOT

2 TYP OUTLET @ WAINSCOT
3" = 1'-0"



1 TYP SIGNAGE LOCATION
1/2" = 1'-0"

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT
CAITLIN MUNICH
29
STATE OF TEXAS
7/15/2026

Huckabee
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INTERIOR DETAILS AND TYPICAL INTERIOR FINISH DETAILS

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.44
Drawn By: MA, AS	
Date: 07.15.26	

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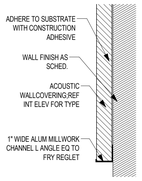
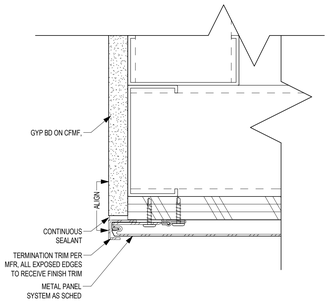
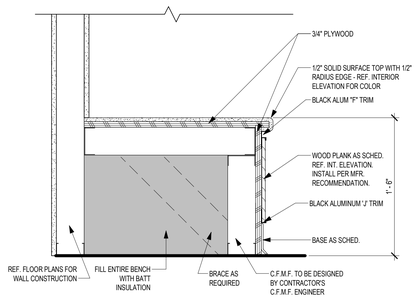


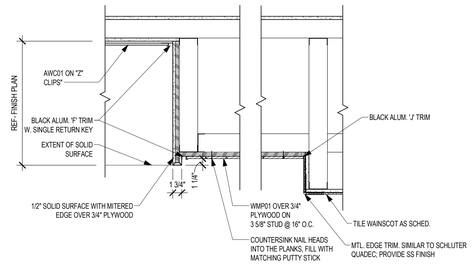
26 PLAN DTL - ACOUSTIC WALLCOVERING
3" = 1'-0"



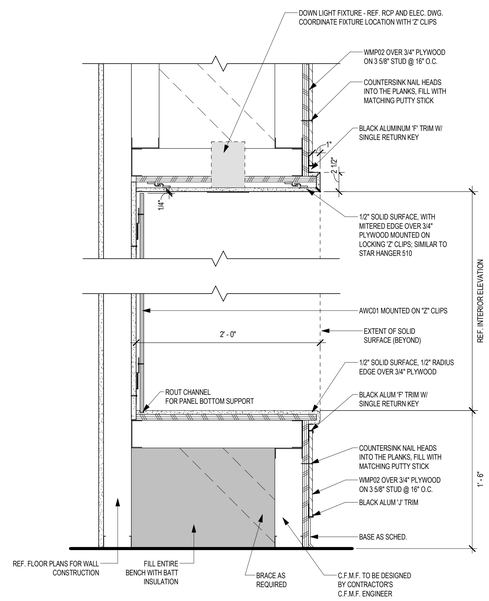
25 GYP REVEAL AT METAL PANEL DETAIL
6" = 1'-0"



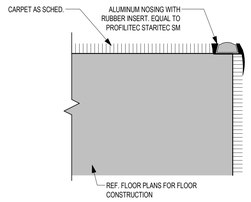
24 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"



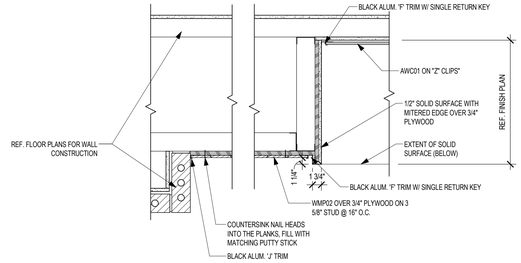
23 BENCH DETAIL WITH SOLID SURFACE
1" = 1'-0"



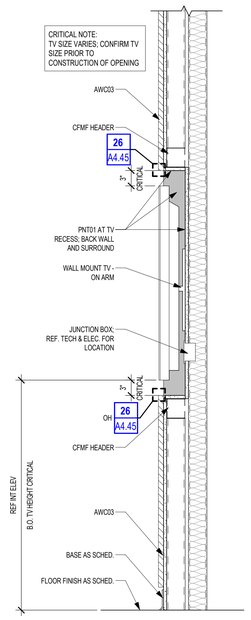
20 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"



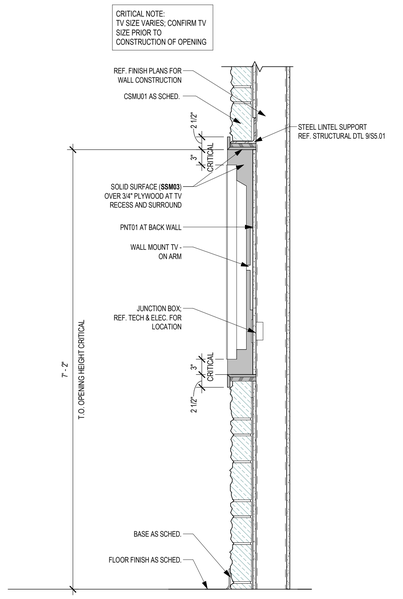
22 STAIR NOSING DTL - CARPET W/ ALUM NOSING
6" = 1'-0"



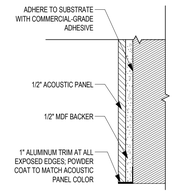
21 BENCH DETAIL WITH SOLID SURFACE
1" = 1'-0"



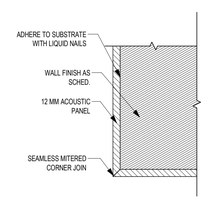
19 RECESSED TV SECTION AT PLATFORM
1" = 1'-0"



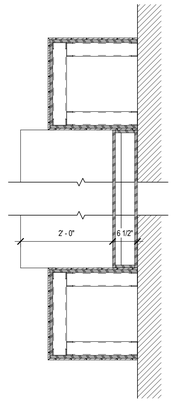
18 RECESSED TV SECTION AT STONE WALL
1" = 1'-0"



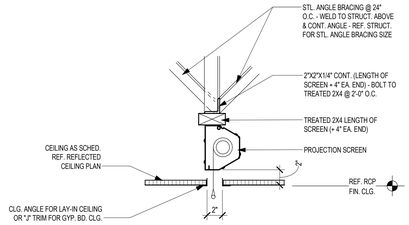
17 ACOUSTIC PANEL EDGE TRIM
3" = 1'-0"



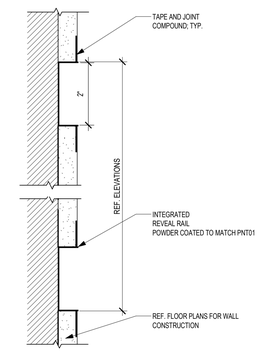
16 PLAN DTL - ACOUSTIC PNL CORNER JT
3" = 1'-0"



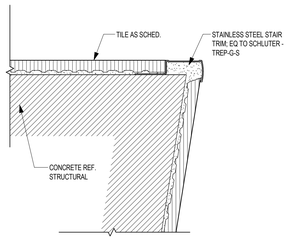
15 BENCH WITH WOOD SLAT COLUMNS
3/4" = 1'-0"



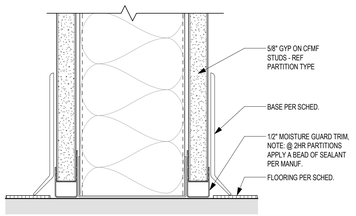
14 MOUNTING TYPE "2" - SUSPENDED FROM STRUCTURE
1 1/2" = 1'-0"



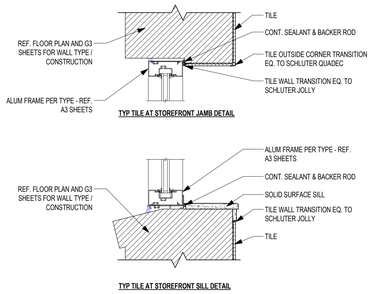
13 GYP REVEAL DETAIL
N.T.S.



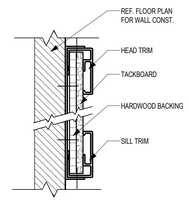
12 STAIR NOSING DETAIL - TILE WITH ALUMINUM
N.T.S.



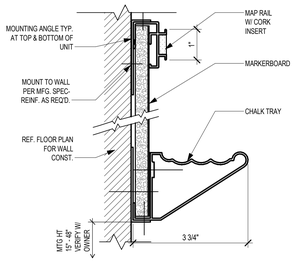
11 DRYWALL BASE DETAIL - GUARD TRIM
6" = 1'-0"



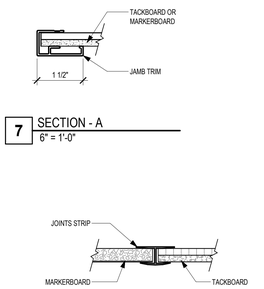
10 INTERIOR TILE TRANSITIONS AT WINDOWS
1 1/2" = 1'-0"



9 SECTION - D
6" = 1'-0"

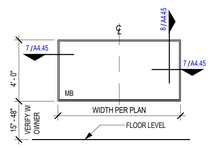


8 SECTION - C
6" = 1'-0"

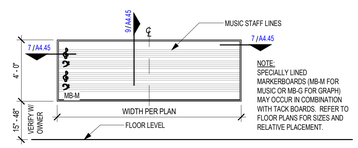


7 SECTION - A
6" = 1'-0"

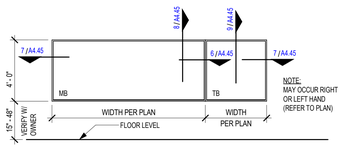
6 SECTION - B
6" = 1'-0"



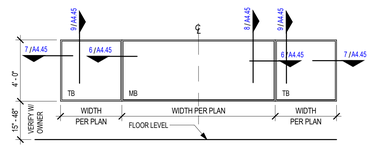
5 TYPICAL MARKERBOARD
1/4" = 1'-0"



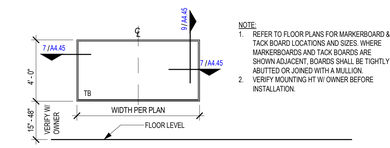
4 MARKERBOARD WITH MUSIC STAFF LINES
1/4" = 1'-0"



3 TYPICAL MARKERBOARD/TACK BOARD COMBO
1/4" = 1'-0"



2 TYPICAL TACK/MARKER/TACK BOARD COMBO
1/4" = 1'-0"



1 TYPICAL TACK BOARD
1/4" = 1'-0"

Date

Revision /

Project:

TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CARTER LYNN MUNCH
29 YEARS
STATE OF TEXAS
7/15/2026

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INTERIOR FINISH DETAILS

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.45
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Date: 07.15.26	

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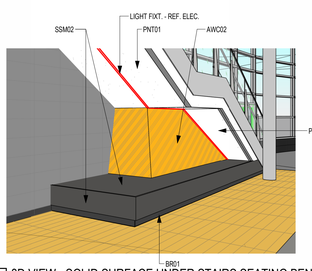
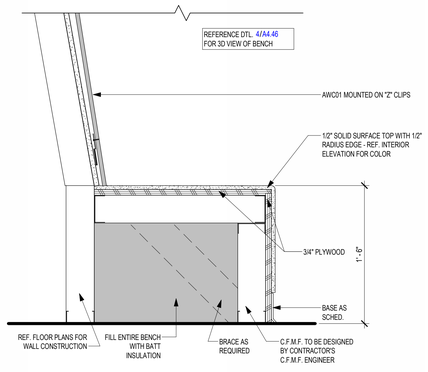
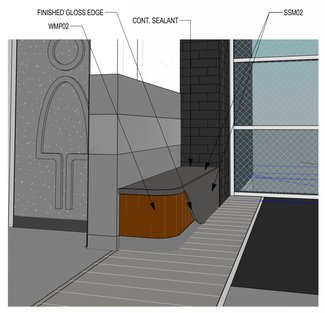
3D VIEW DISCLAIMER



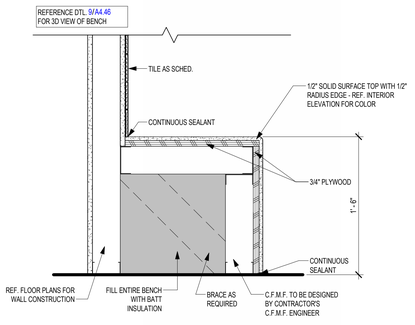
4 3D VIEW - SOLID SURFACE UNDER STAIRS SEATING BENCH



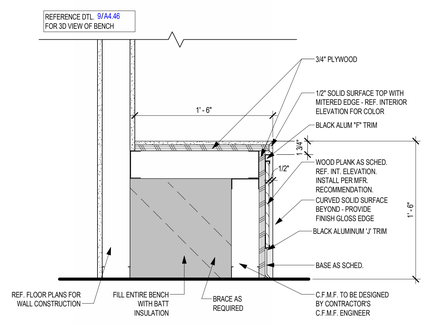
3 UNDER STAIRS SOLID SURFACE SEATING BENCH DETAIL
1 1/2" = 1'-0"



9 3D VIEW - SOLID SURFACE SEATING BENCH AREA A



2 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"



1 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"

8 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"

7 BENCH DETAIL WITH SOLID SURFACE
1 1/2" = 1'-0"

6 TYP LWS CORNER DETAIL
6" = 1'-0"



5 SECTION DTL - CUSTOM LOGO
3" = 1'-0"

Project:
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FOR
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TOMBALL, TEXAS

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INTERIOR FINISH DETAILS

VOLUME 01

Job No. 00802-04-01	Sheet No. A4.46
Drawn By: MA, AS	
Date: 07.15.26	

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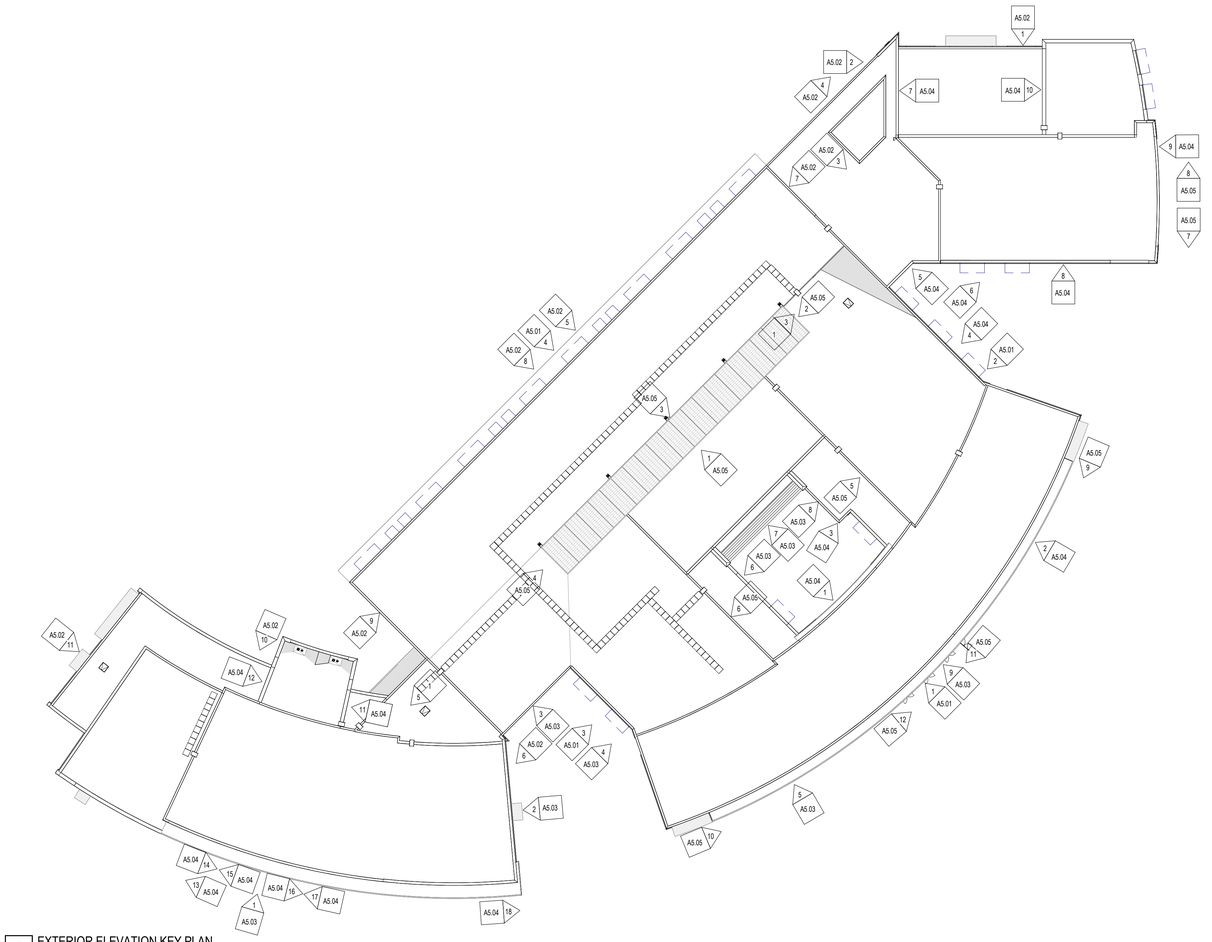
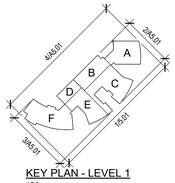
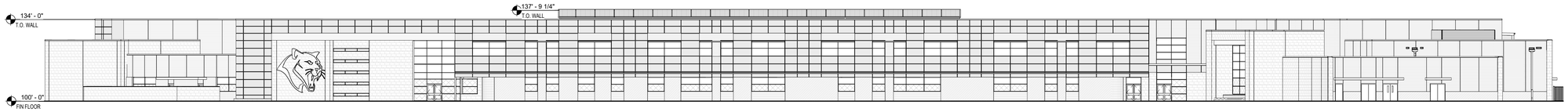


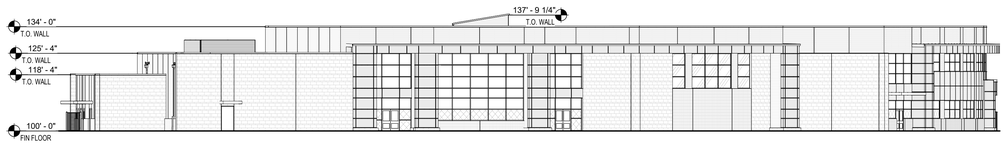
5 EXTERIOR ELEVATION KEY PLAN
1" = 30'-0"



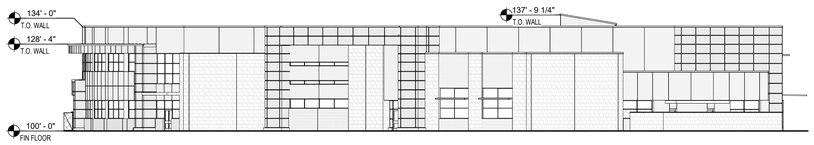
KEY PLAN - LEVEL 1
N.T.S



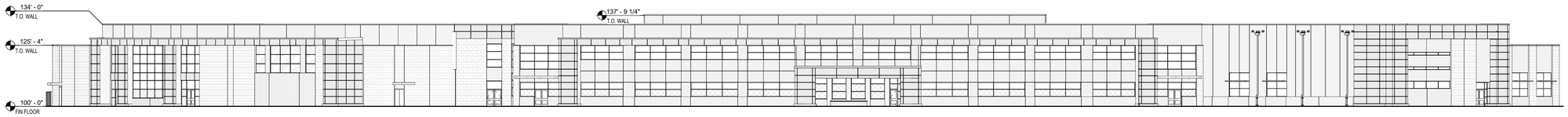
4 OVERALL EXTERIOR ELEVATION - WEST
1" = 20'-0"



3 OVERALL EXTERIOR ELEVATION - SOUTH
1" = 20'-0"



2 OVERALL EXTERIOR ELEVATION - NORTH
1" = 20'-0"



1 OVERALL EXTERIOR ELEVATION - EAST
1" = 20'-0"

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EXTERIOR ELEVATIONS - OVERALL

VOLUME 01

Job No.	Sheet No.
00802-04-01	A5.01
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Date: 07.15.26	

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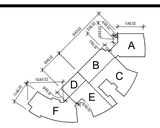
JOINTS
CJ - CONTROL JOINT (STONE & BRICK)
EJ - EXPANSION JOINT (BRICK)
TJ - TRIM JOINT (CORRUGATED METAL PANEL)

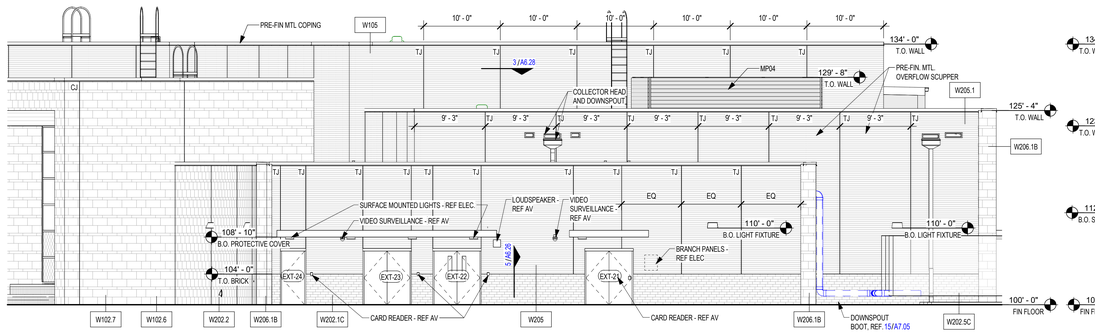
MASONRY PATTERNS
BRK01 - REF. 4/A5.06
CSMU01 - REF. 3/A5.06

NOTE- VIEW NAME DIRECTIONS ARE PER PLAN NORTH

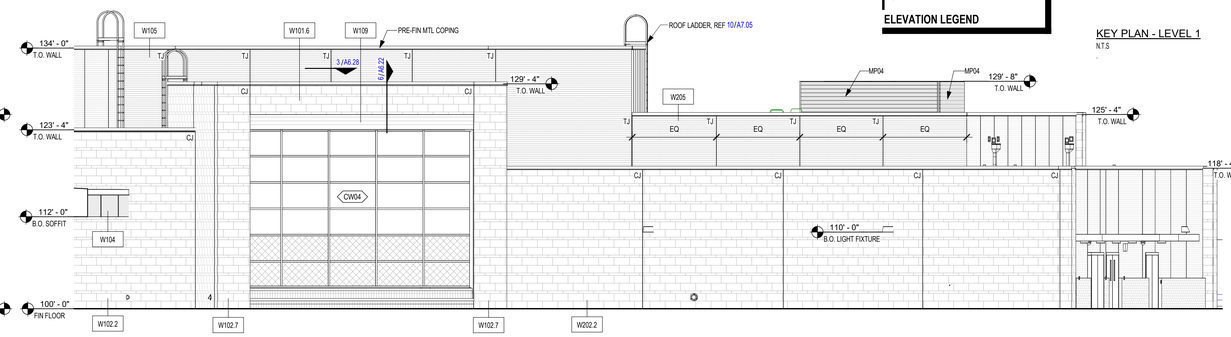
ELEVATION LEGEND



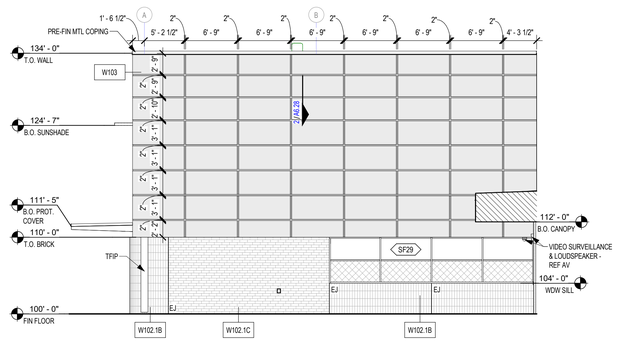
KEY PLAN - LEVEL 1
N.T.S



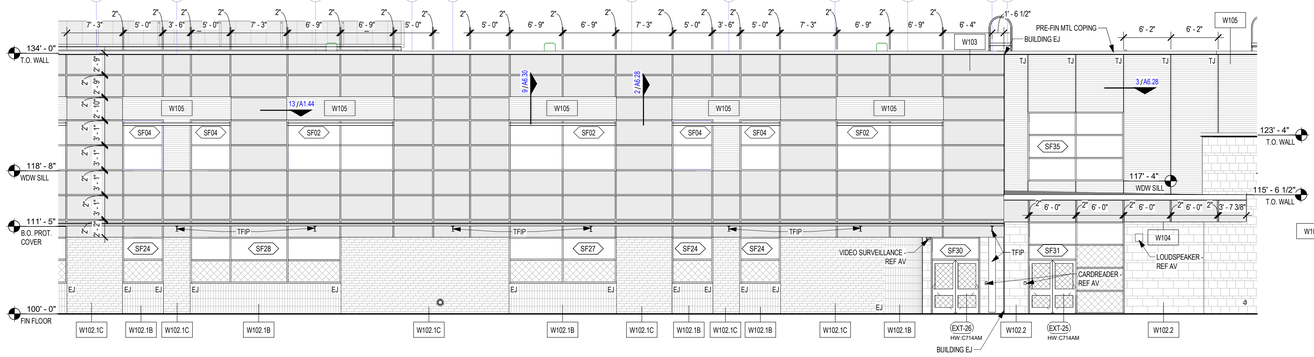
11 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



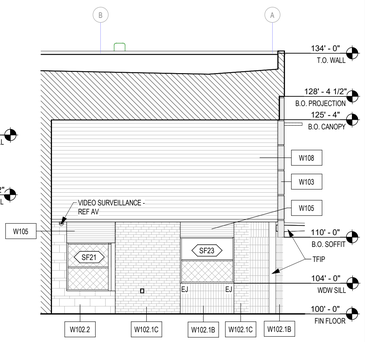
10 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



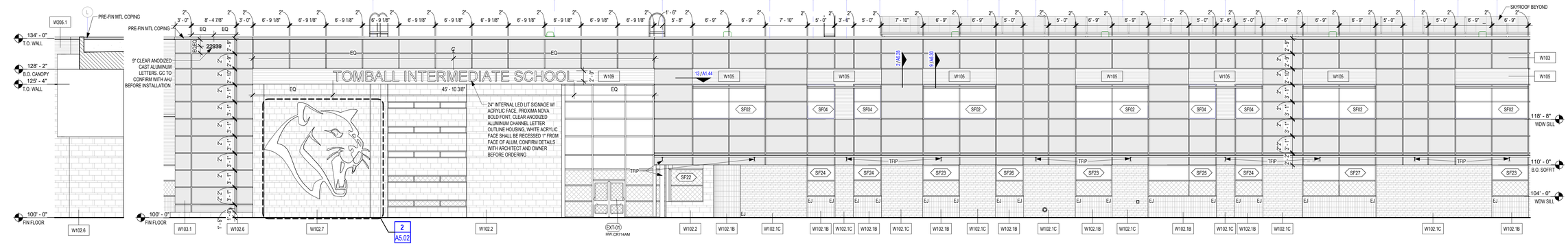
9 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



8 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

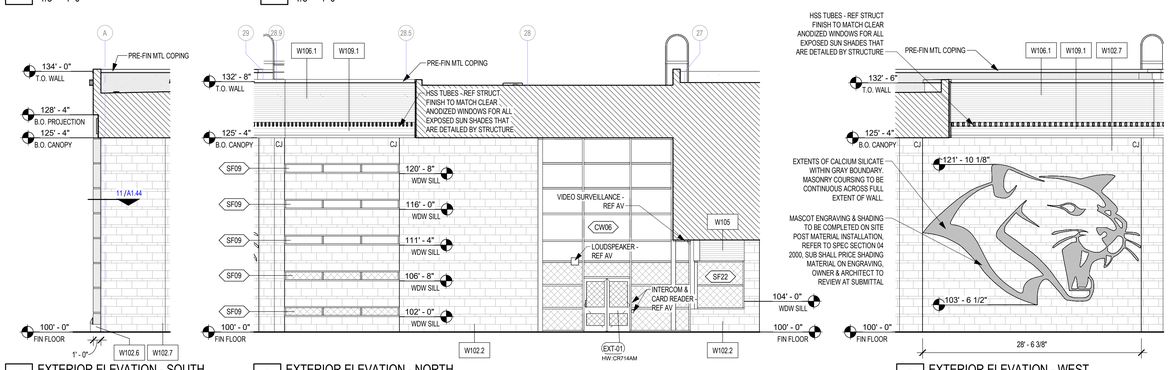


7 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



6 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

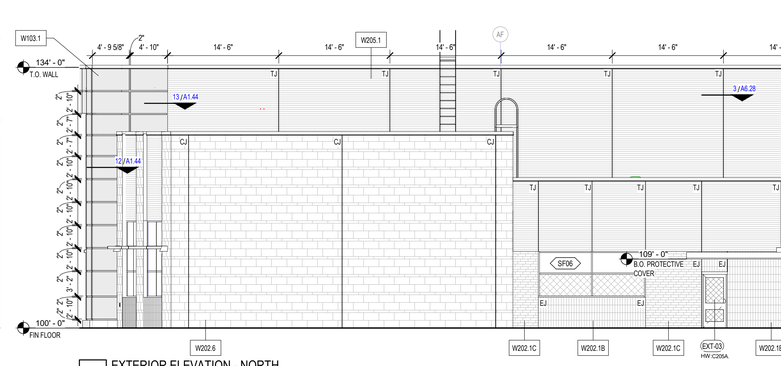
5 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



4 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"

3 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

2 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



1 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

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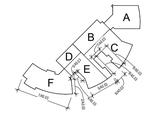
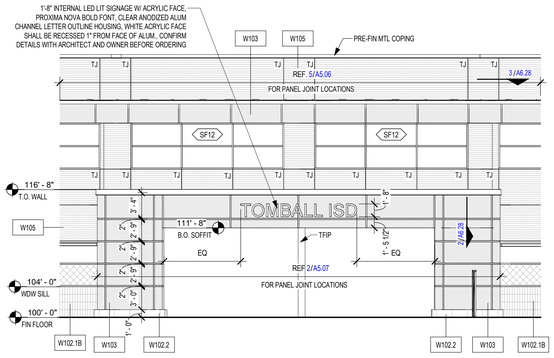
MASONRY PATTERNS
BRK01 - REF. 4/A5.06
CSMU01 - REF. 3/A5.06

NOTE- VIEW NAME DIRECTIONS ARE PER PLAN NORTH

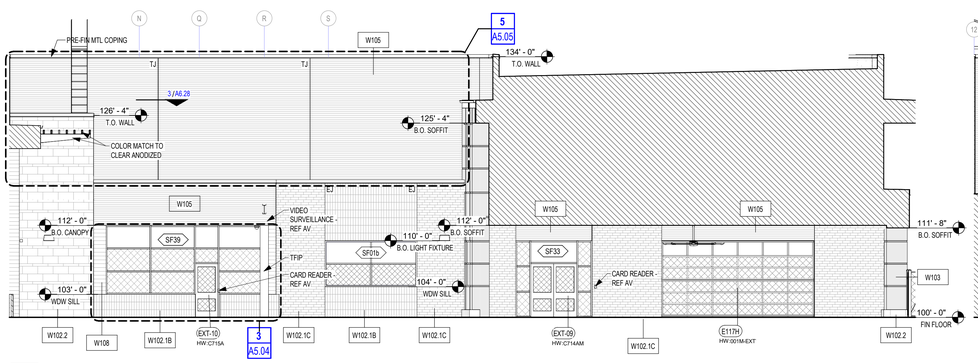
ELEVATION LEGEND

KEY PLAN - LEVEL 1
N.T.S

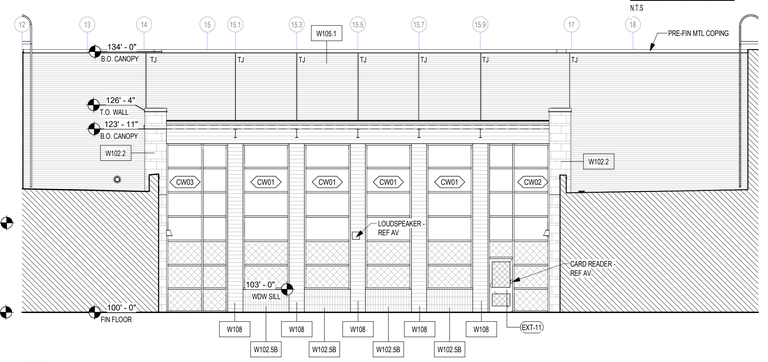




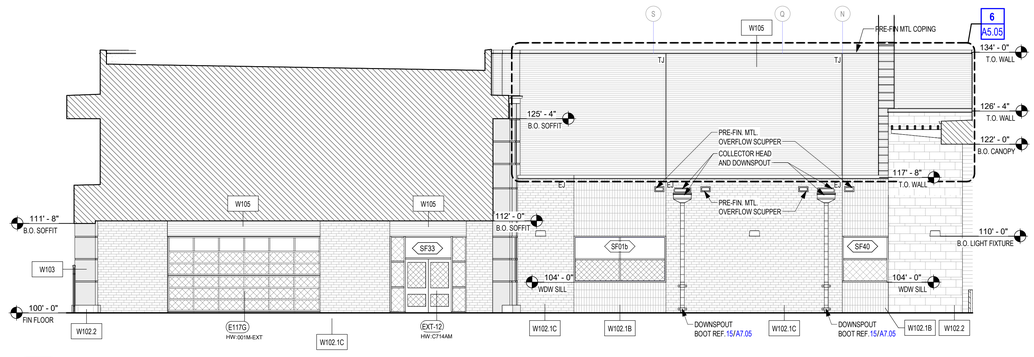
9 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



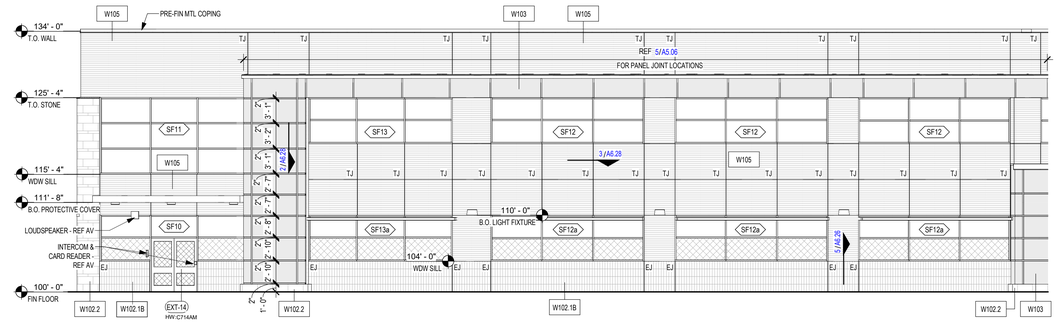
8 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



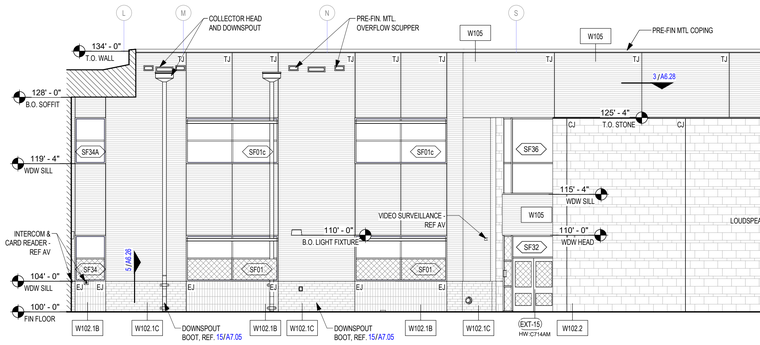
7 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



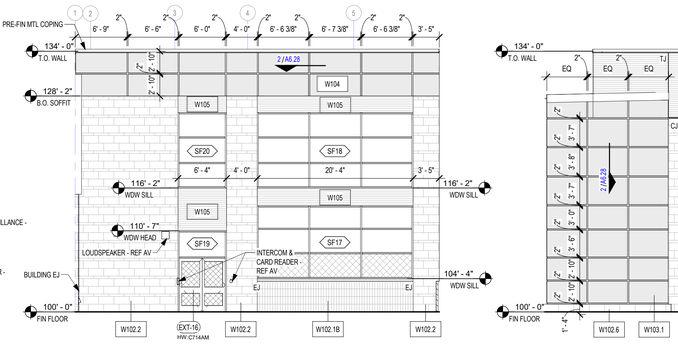
6 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



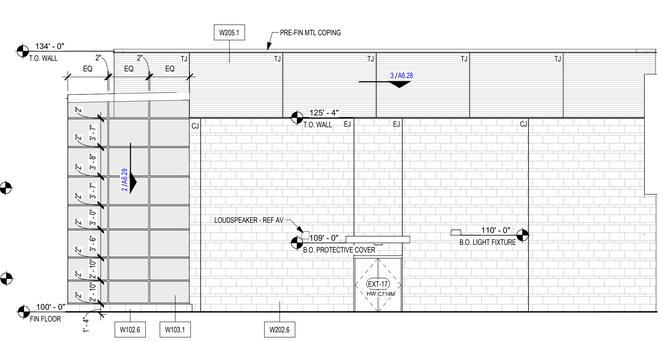
5 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



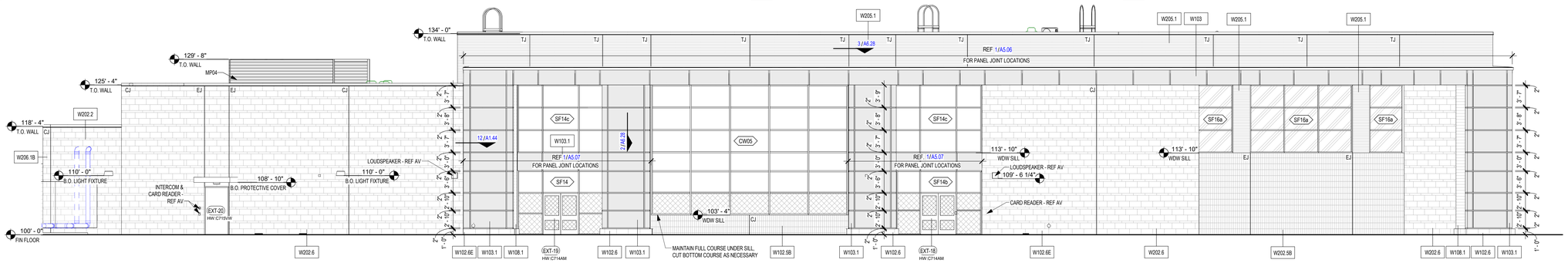
4 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



3 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



2 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



1 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"

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Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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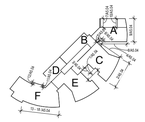
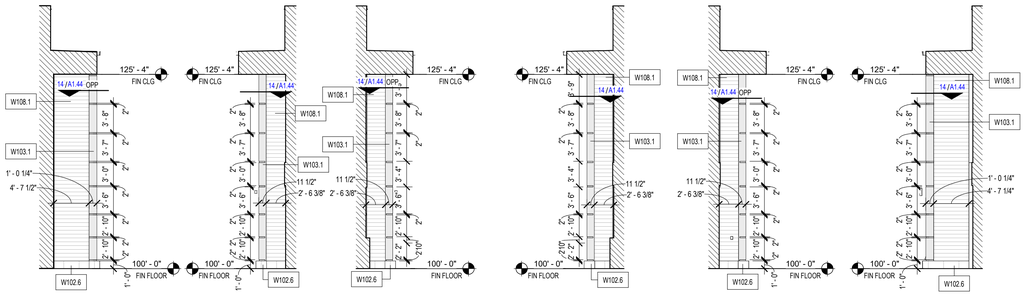
NOTE- VIEW NAME DIRECTIONS ARE PER PLAN NORTH

ELEVATION LEGEND



KEY PLAN
N.T.S



18 EXT. ELEV. - WEST
1/8" = 1'-0"

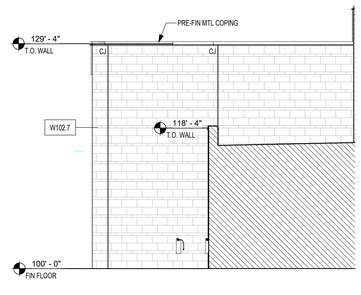
17 EXT. ELEV. - EAST
1/8" = 1'-0"

16 EXT. ELEV. - WEST
1/8" = 1'-0"

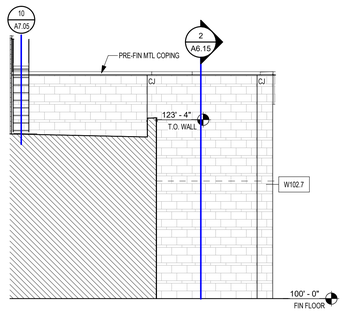
15 EXT. ELEV. - EAST
1/8" = 1'-0"

14 EXT. ELEV. - WEST
1/8" = 1'-0"

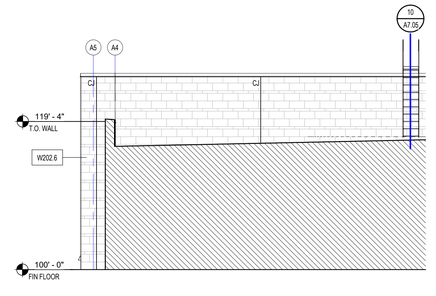
13 EXT. ELEV. - EAST
1/8" = 1'-0"



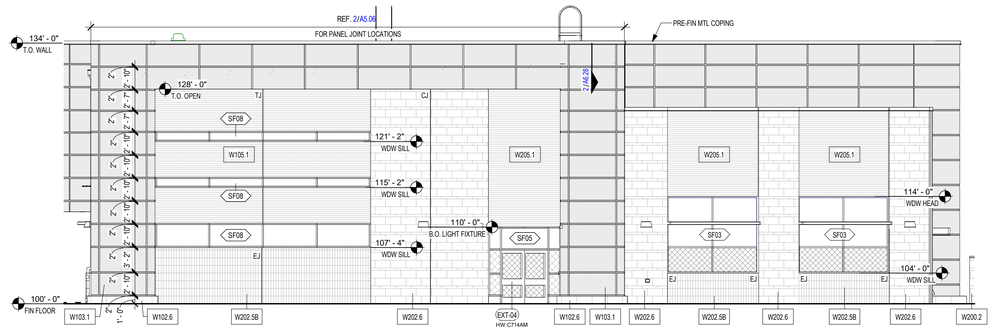
12 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



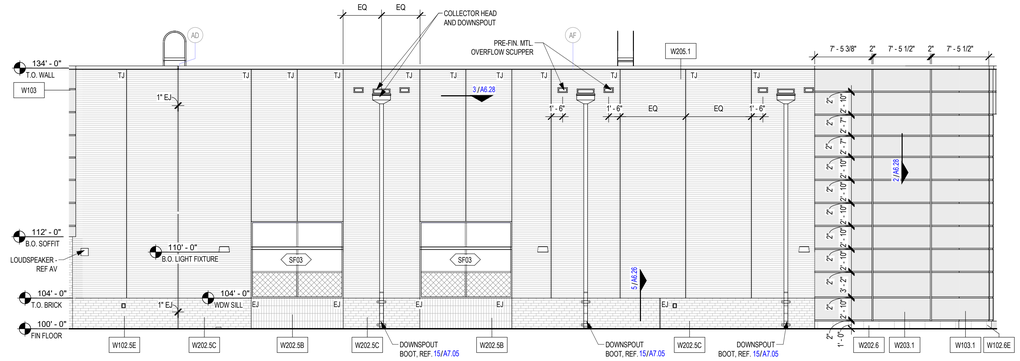
11 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



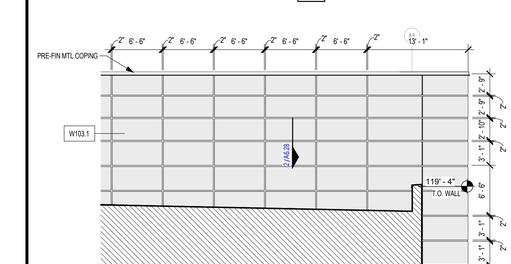
10 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



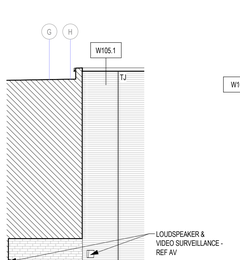
9 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



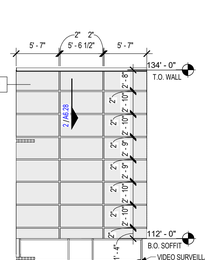
8 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



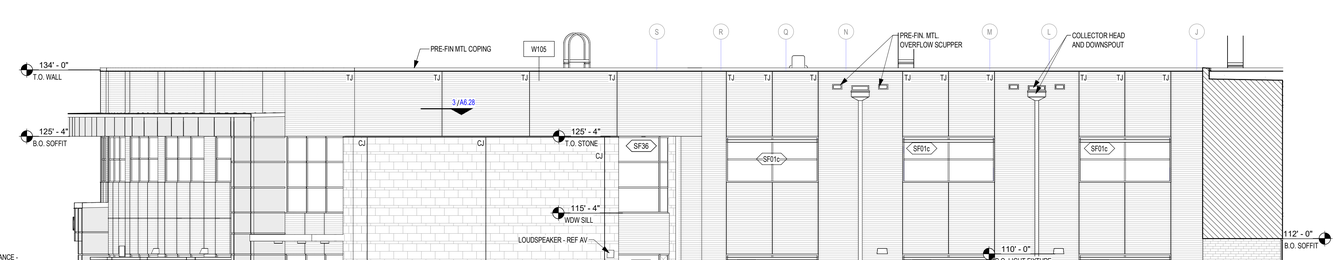
7 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



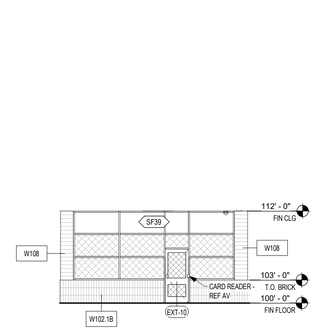
6 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



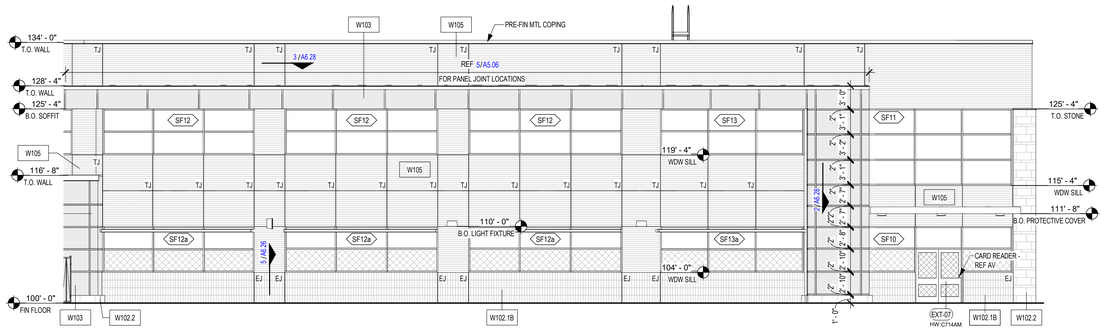
5 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



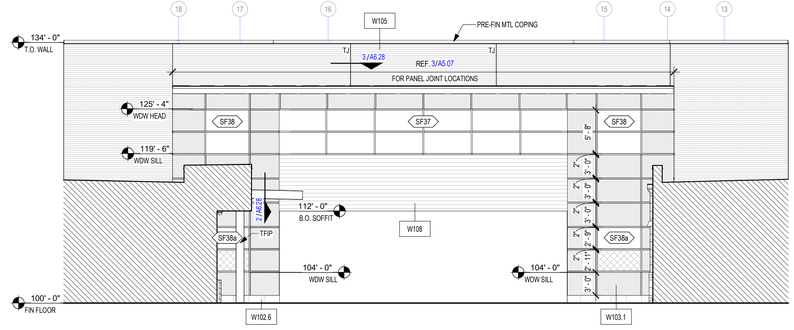
4 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



3 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



2 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



1 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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EXTERIOR ELEVATIONS
VOLUME 01

Job No. 00802-04-01	Sheet No. A5.04
Drawn By: MF	
Date: 07.15.26	

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JOINTS
CJ - CONTROL JOINT (STONE & BRICK)
EJ - EXPANSION JOINT (BRICK)
TJ - TRIM JOINT (CORRUGATED METAL PANEL)

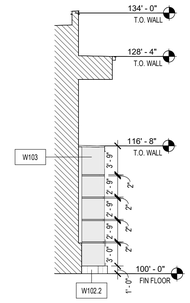
MASONRY PATTERNS
BRK01 - REF. 4/A5.06
CSMU01 - REF. 3/A5.06

NOTE- VIEW NAME DIRECTIONS ARE PER PLAN NORTH

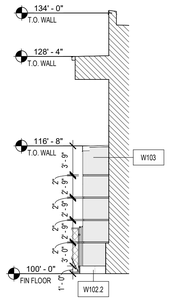
ELEVATION LEGEND



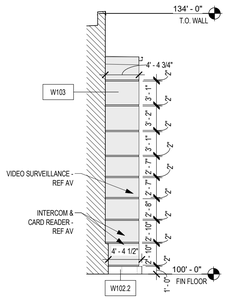
KEY PLAN
N.T.S



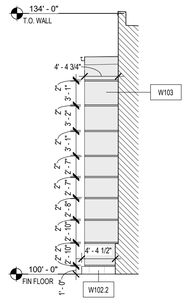
12 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



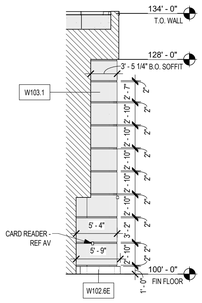
11 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



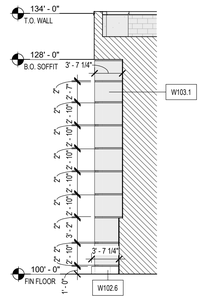
10 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



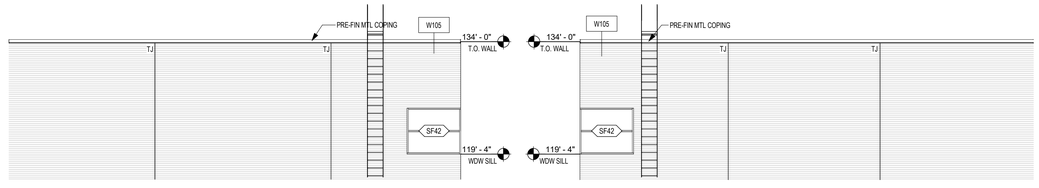
9 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



8 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"

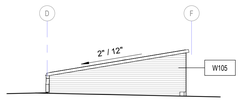


7 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

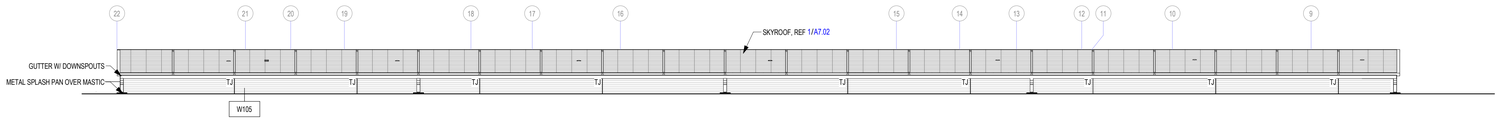


6 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

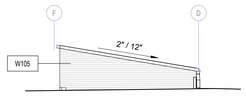
5 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



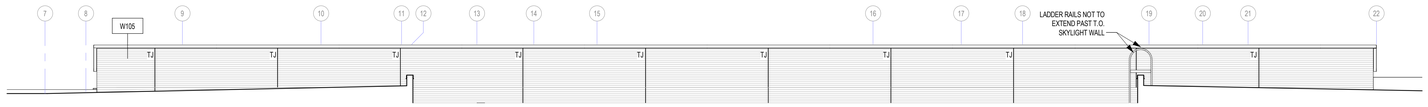
4 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



3 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



2 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



1 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
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7/15/2026

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EXTERIOR ELEVATIONS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A5.05
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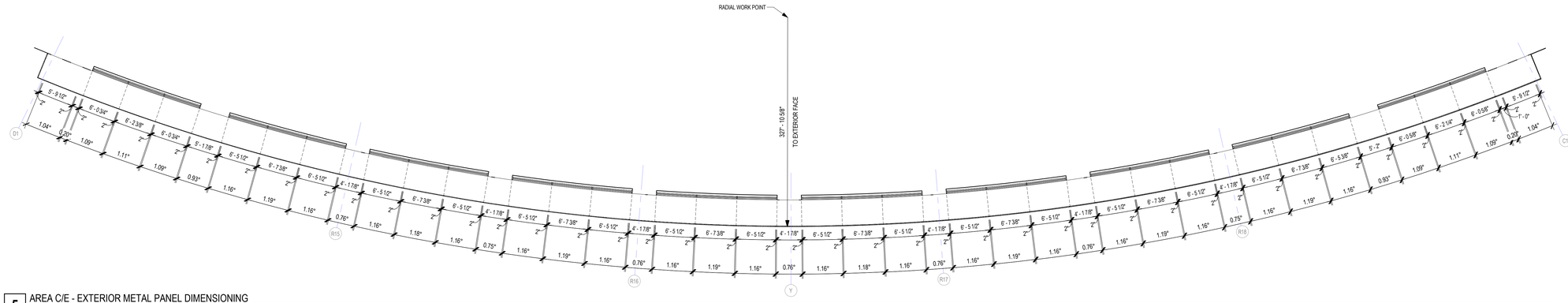
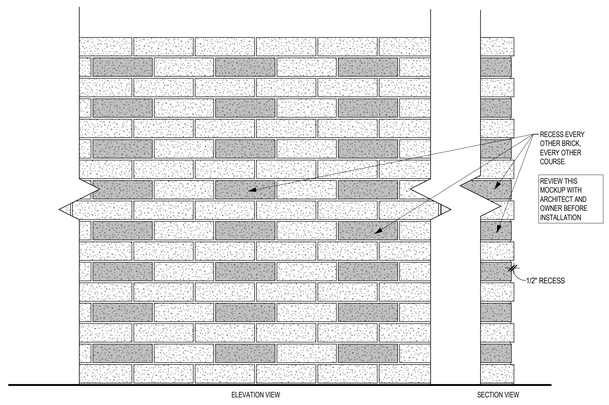
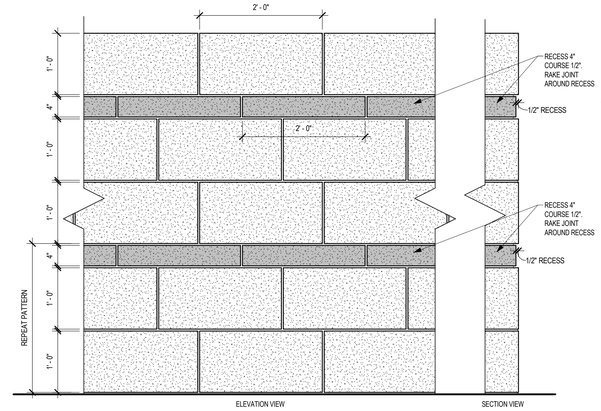


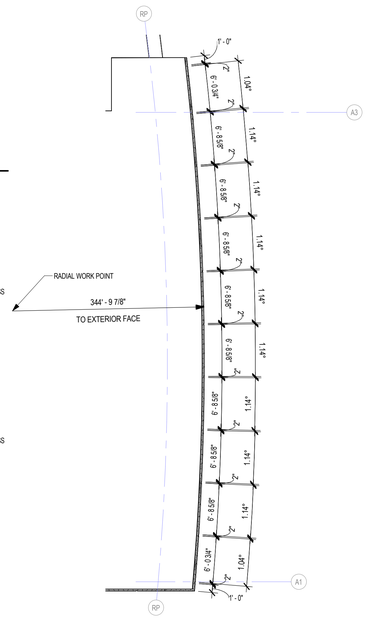
5 AREA C/E - EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"



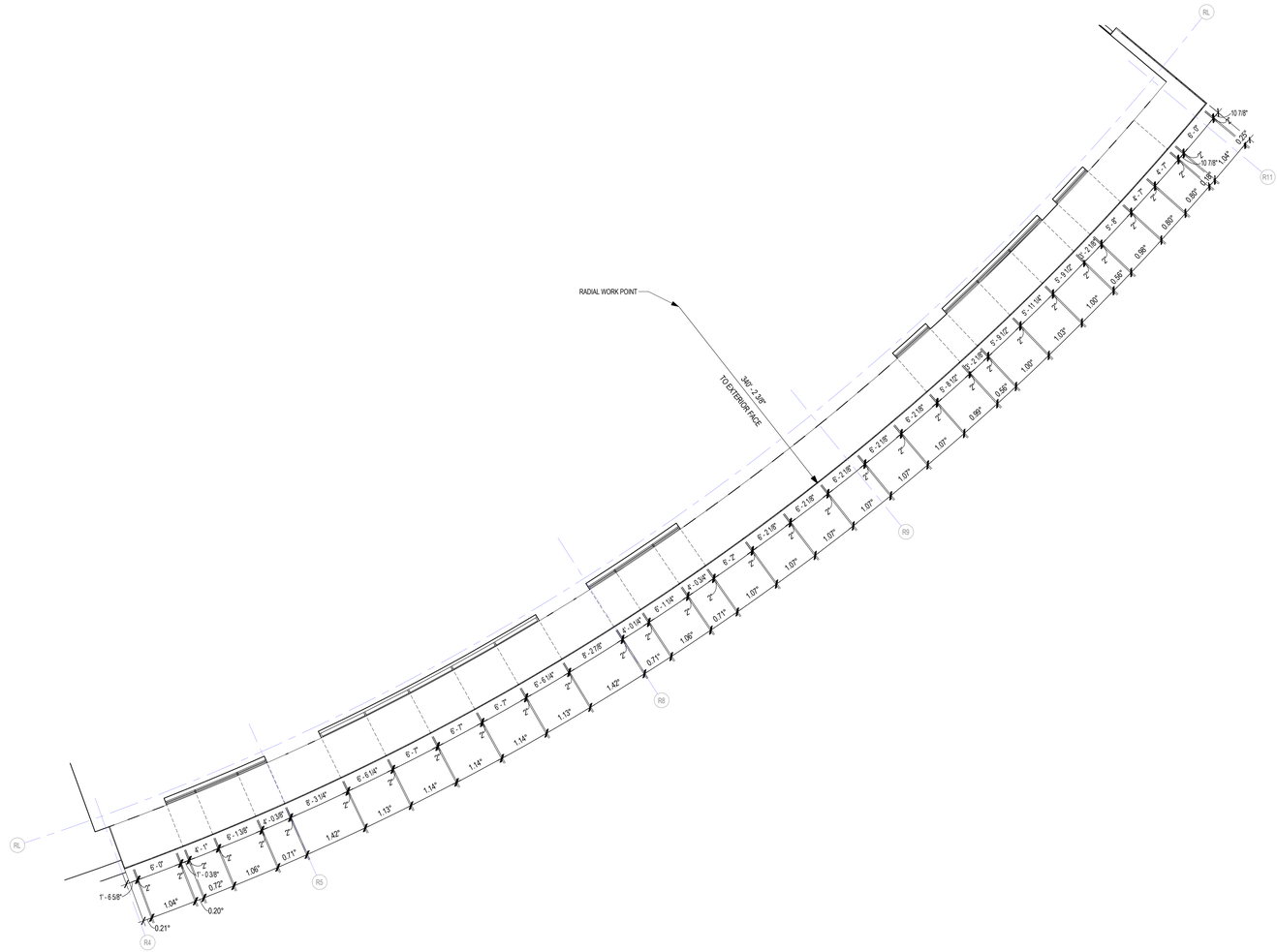
4 BRICK PATTERNING DETAIL - BRK01
1" = 1'-0"



3 STONE PATTERNING DETAIL - CSMU01
1" = 1'-0"



2 AREA A- EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"



1 AREA F - HIGH EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"

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Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS
7/15/2026

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03802-04-01	A5.06
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Date: 07.15.26	

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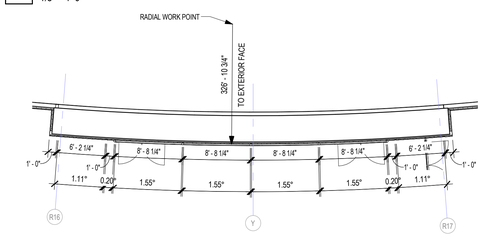
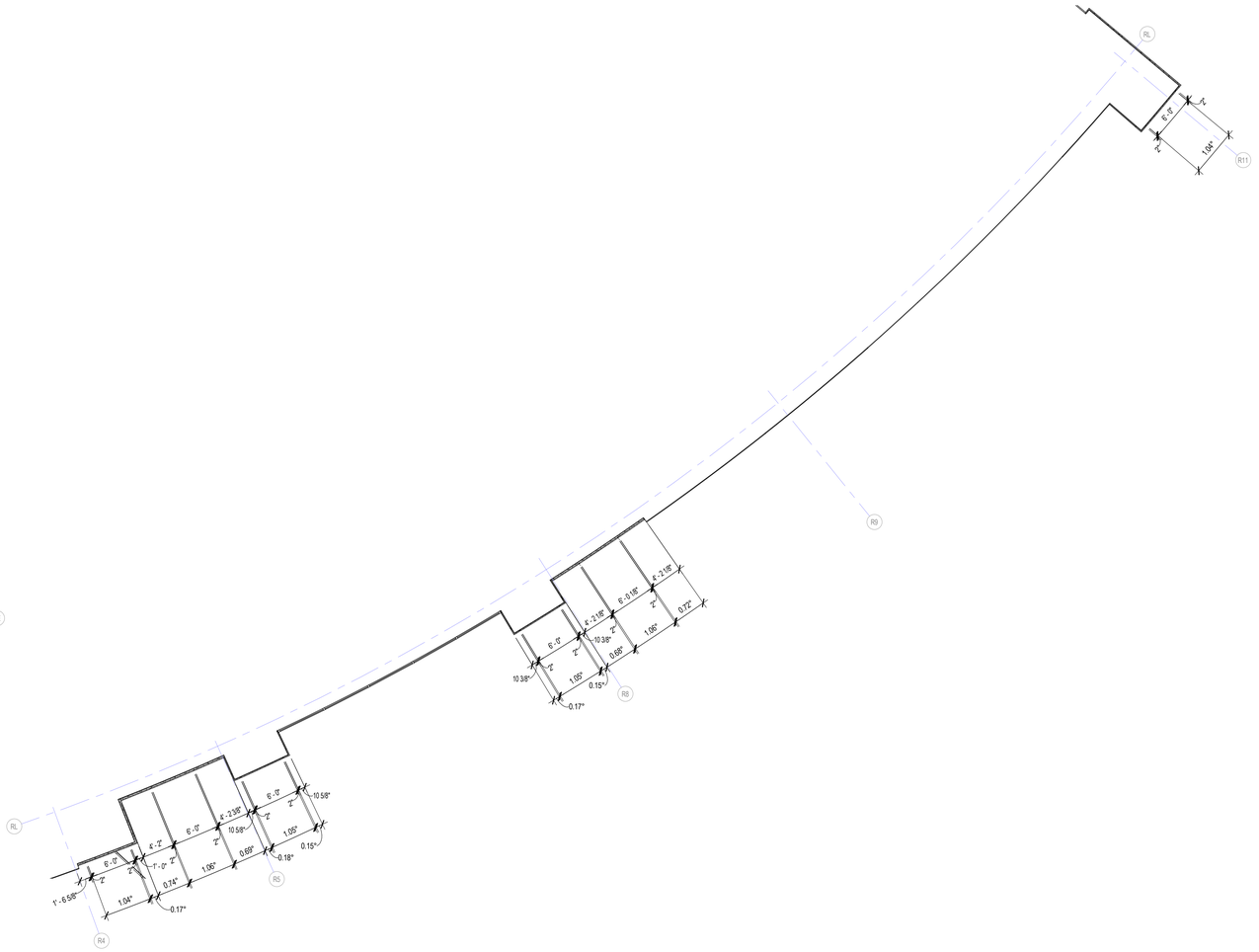
3 AREA C COURTYARD - LOW EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"



2 AREA C - LOW EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"



1 AREA F - LOW EXTERIOR METAL PANEL DIMENSIONING
1/8" = 1'-0"

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STATE OF TEXAS
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Date: 07.15.26	

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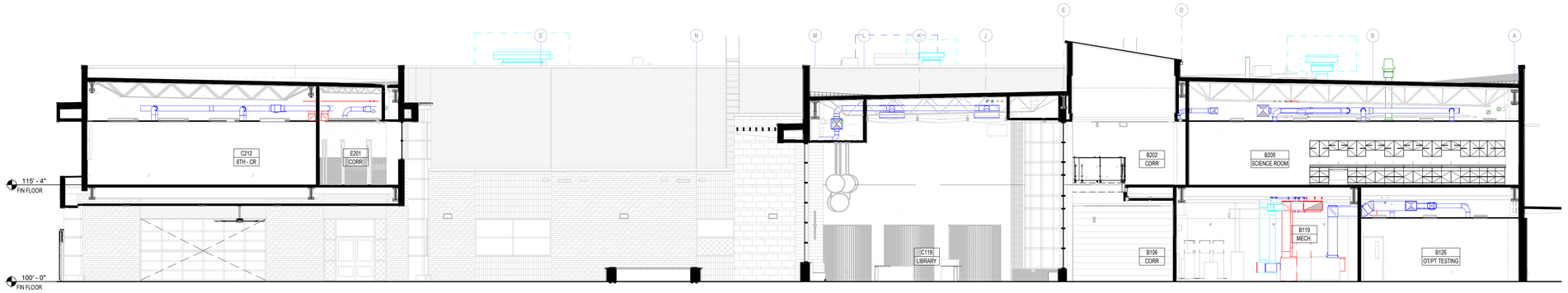
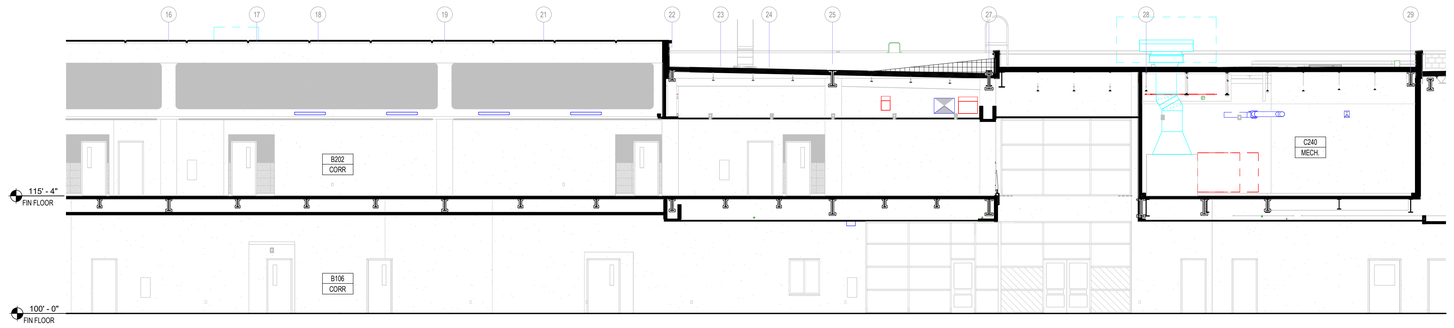
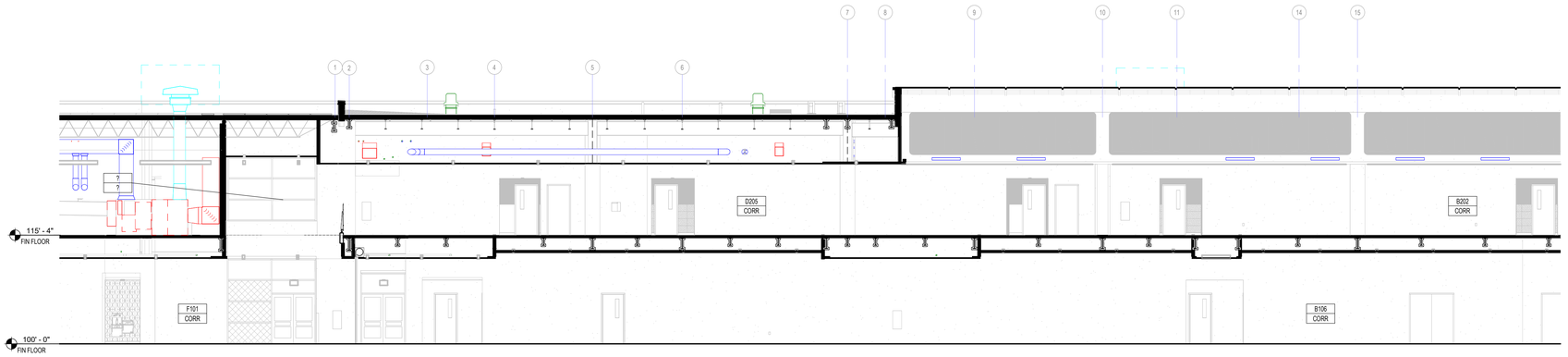


3 BUILDING SECTION
1/8" = 1'-0"



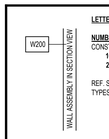
2 BUILDING SECTION
1/8" = 1'-0"



1 BUILDING SECTION
1/8" = 1'-0"

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"X4"X3.5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES APPLICABLE TO ALL A4 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES



ROOF TYPE LEGEND

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FOR
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TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNICH
25 811
STATE OF TEXAS
7/15/2026

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BUILDING SECTIONS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A6.01
Drawn By: MF	
Date: 07.15.26	

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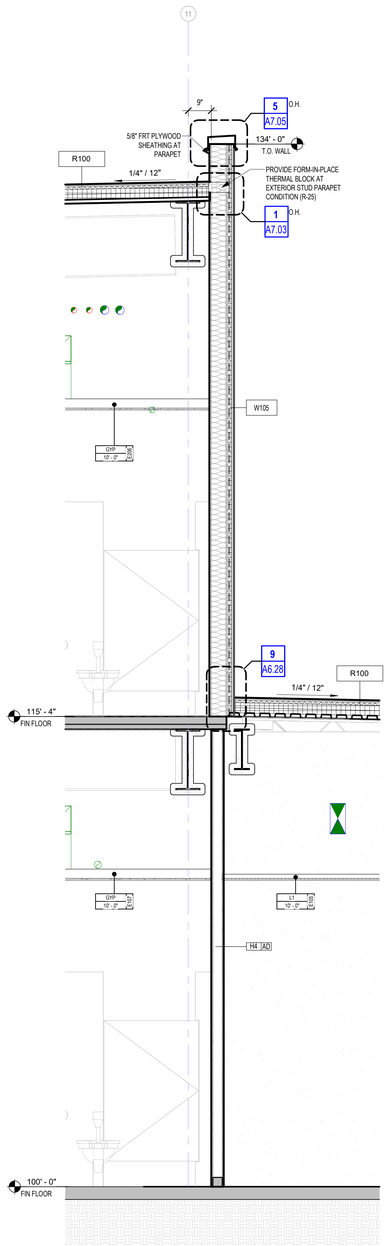
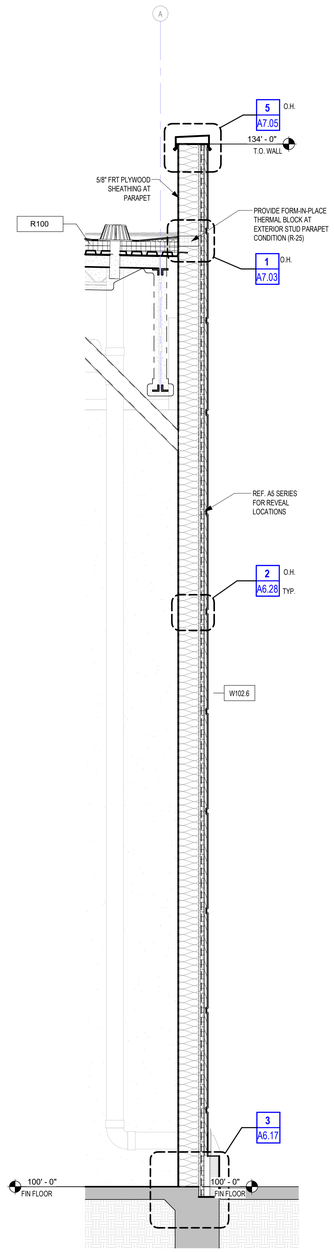
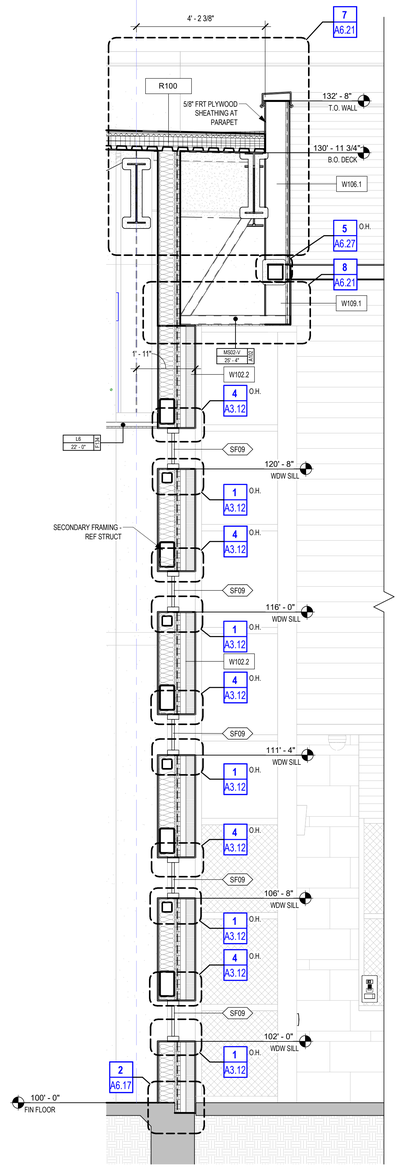


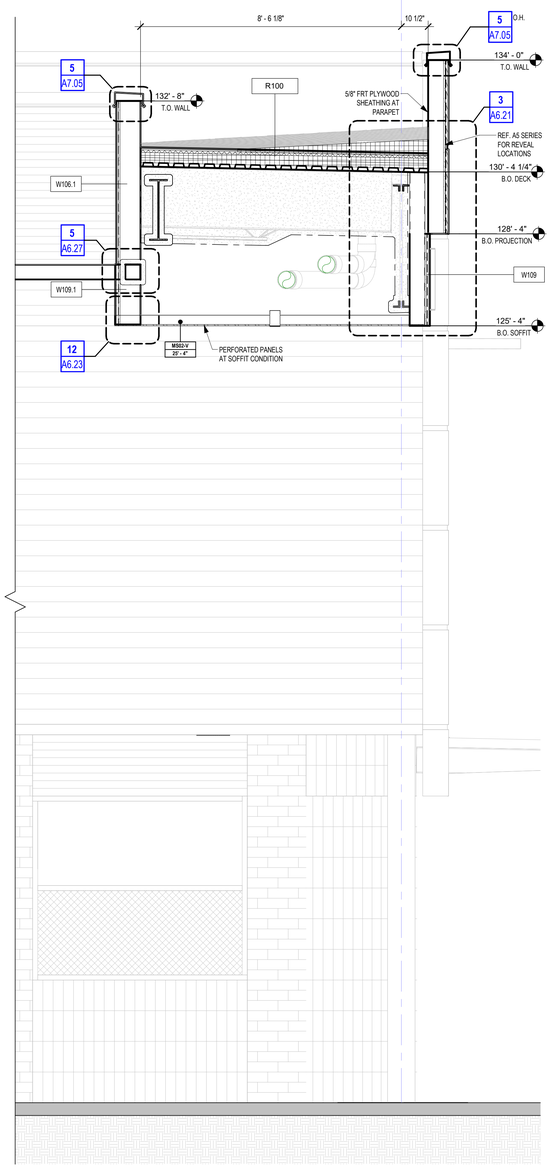
3 Section 284
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



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4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"x4"X3 5/8")
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7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
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9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
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14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A4 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

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R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
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R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER

STANDARD CMU

ARCHITECTURAL CMU (ACMU)

CFMF PARTITION

PARTITION TYPE TAGS

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **NA**, ACOUSTICAL
   COLUMN FURRING - **NA**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
7/15/2026

Huckabee
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800.687.1229

WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.02
Drawn By: MF	
Date: 07.15.26	

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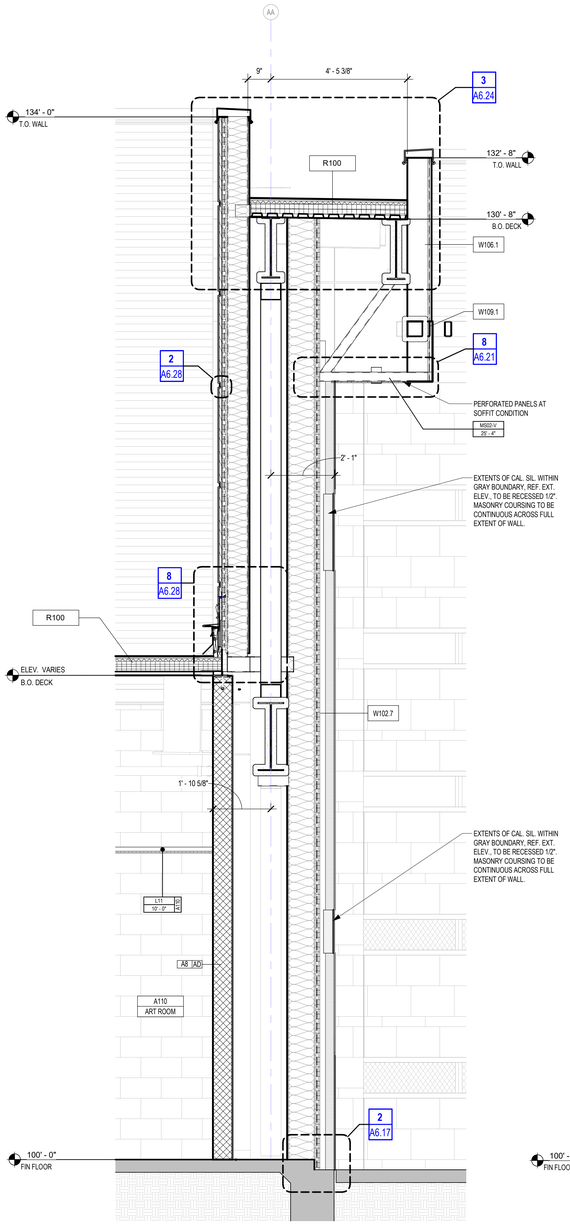
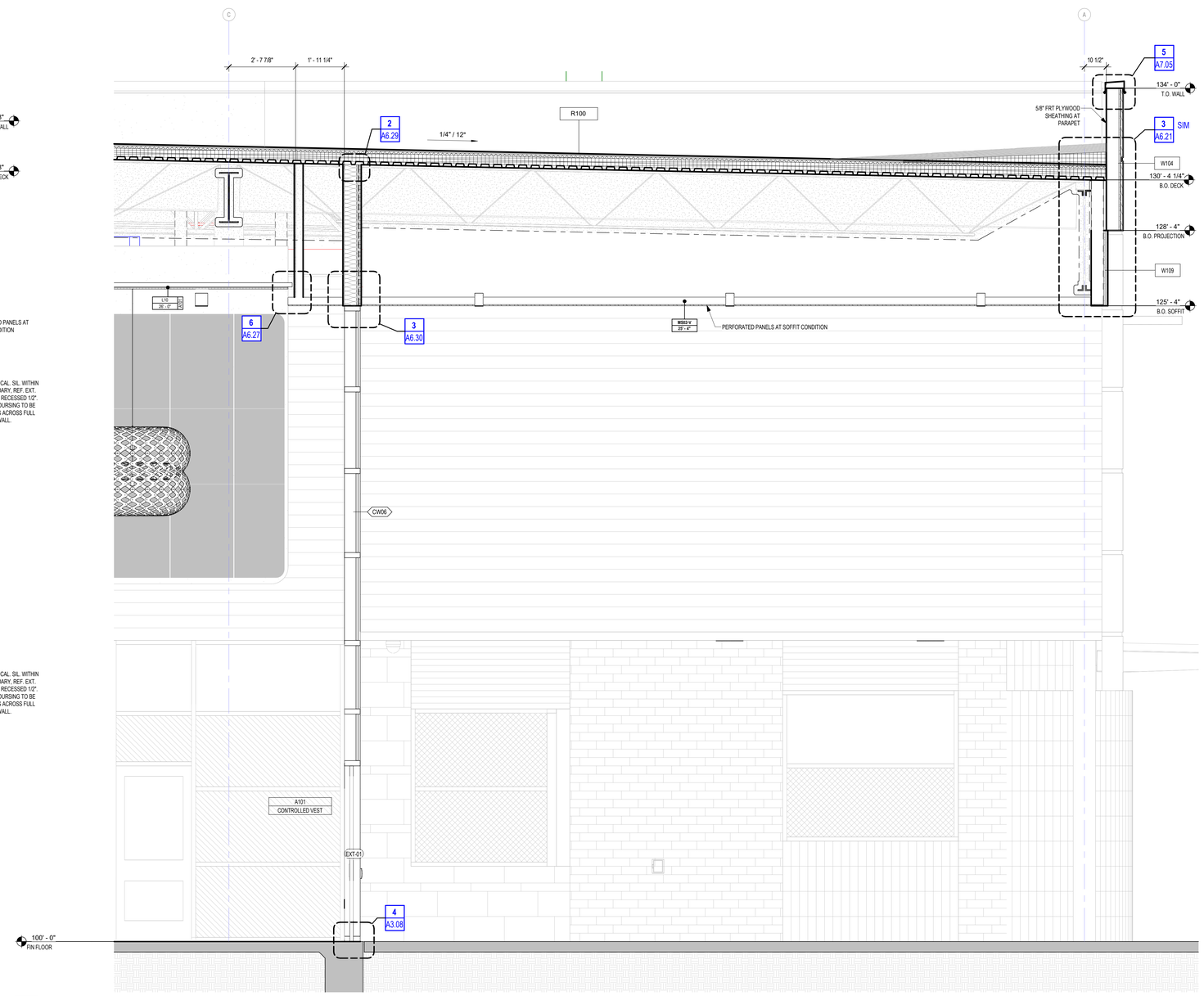


2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"x4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

EXTERIOR WALL TYPE LEGEND



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

ROOF TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES



PARTITION LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER

STANDARD CMU

ARCHITECTURAL CMU (ACMU)

CFMF PARTITION

PARTITION TYPE TAGS



LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CARY LIN MUNCH 29 STATE OF TEXAS
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.03
Drawn By: MF	
Date: 07.15.26	

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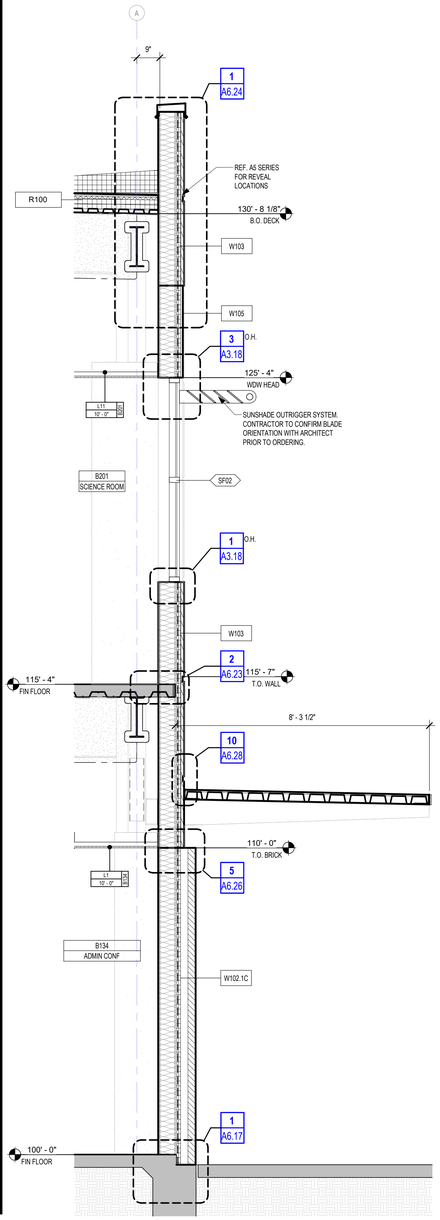
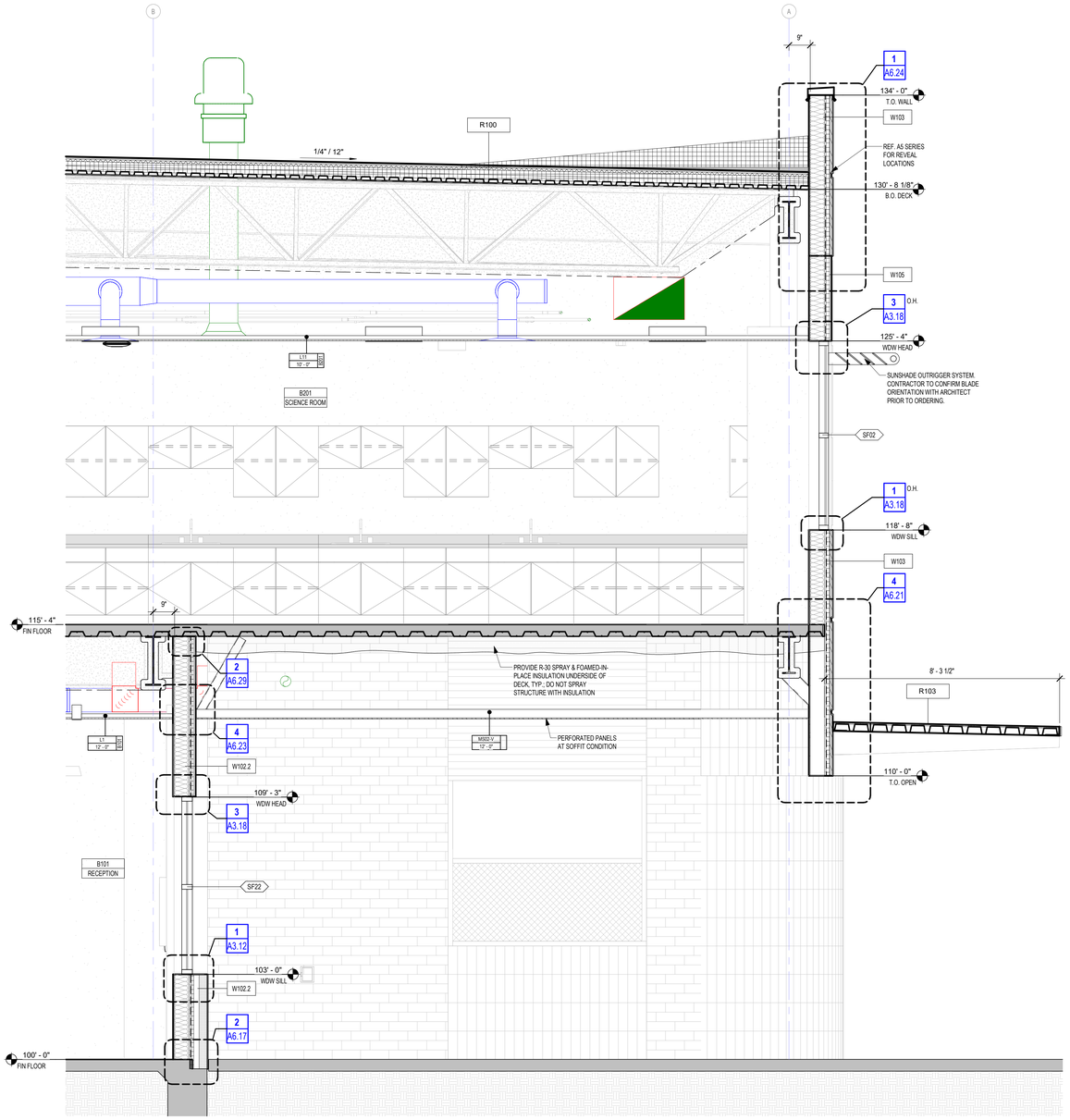
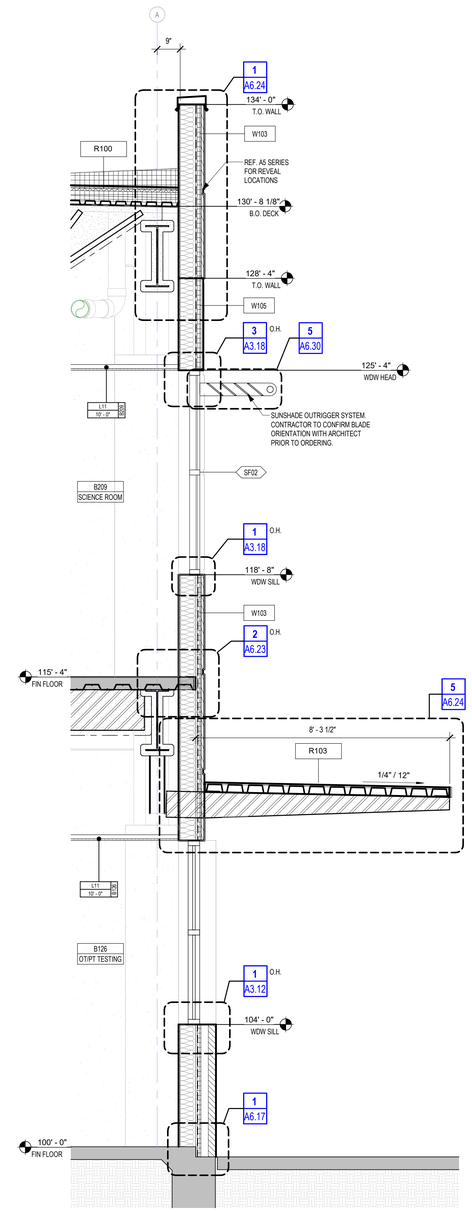


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1B



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1B



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1B

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"X4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN.
   GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100
ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.
MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS

A3 | D
WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CARL LIN MUNCH
29 614
STATE OF TEXAS
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.04
Drawn By: MF	
Date: 07.15.26	

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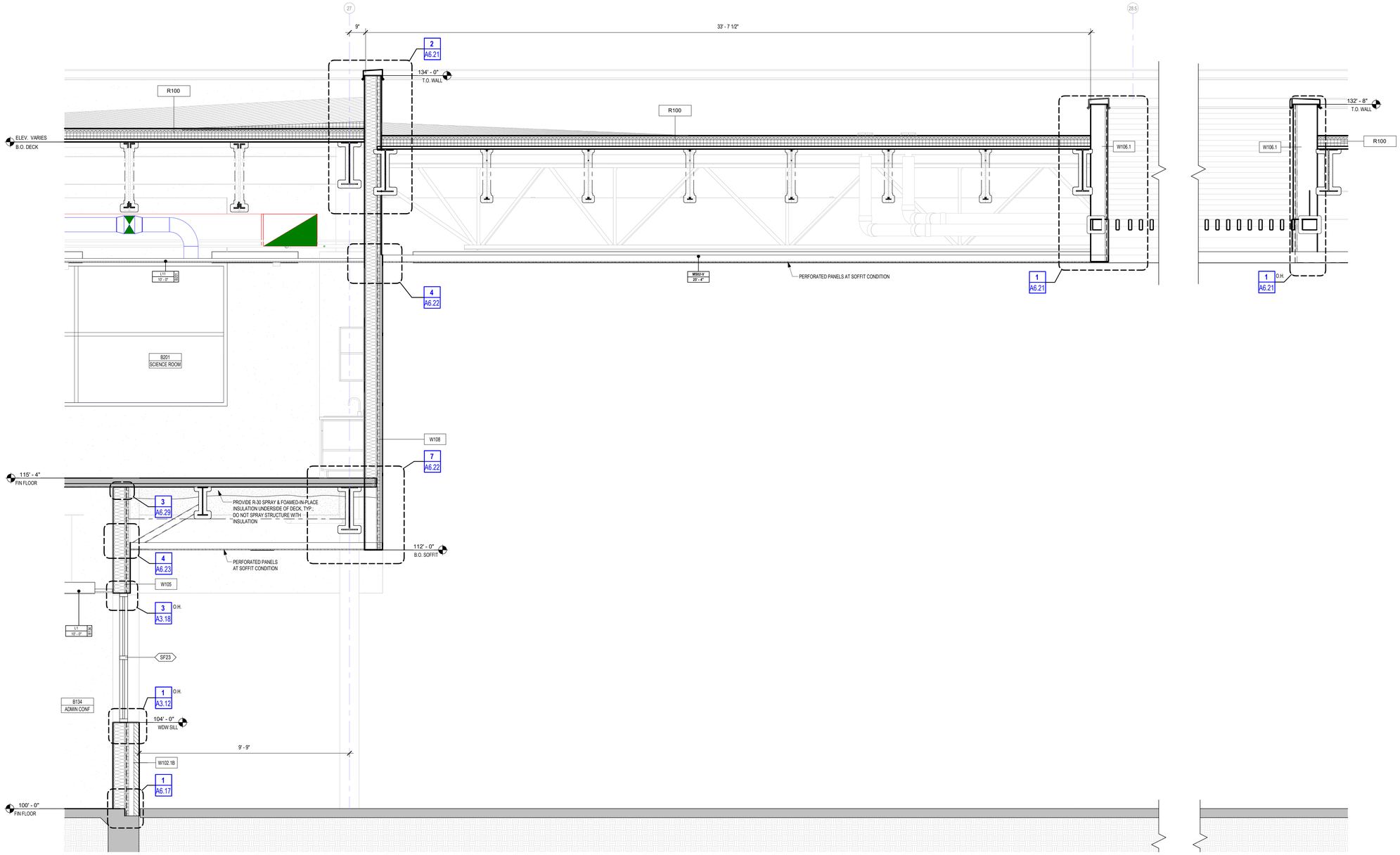

1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1B

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
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14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

W200 — WALL ASSEMBLY IN SECTION VIEW

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
- **100** - CFMF
- **200** - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

- **R100** - BUILT-UP, INSUL., MTL. DECK
- **R102** - SINGLE PLY, INSUL., MTL. DECK
- **R103** - SINGLE PLY, MTL. DECK
- **R110** - SINGLE PLY, INSUL., FRT PLY., CFMF
- **R111** - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- **MASONRY VENEER**
- **STANDARD CMU**
- **ARCHITECTURAL CMU (ACMU)**
- **CFMF PARTITION**

PARTITION TYPE TAGS

A3 | D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision /	Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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800.687.1229

WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.05
Drawn By: MF	
Date: 07.15.26	

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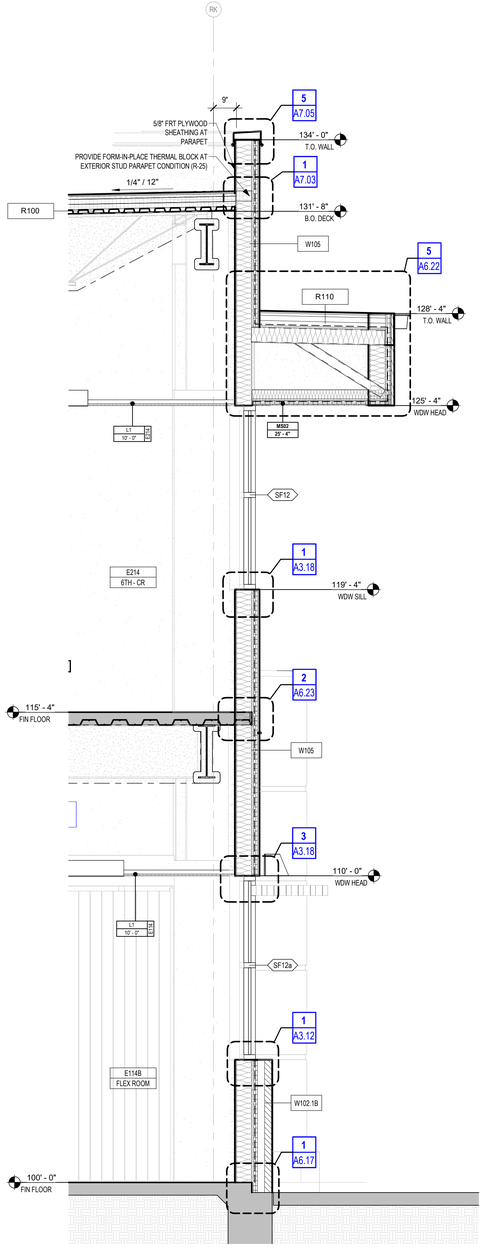
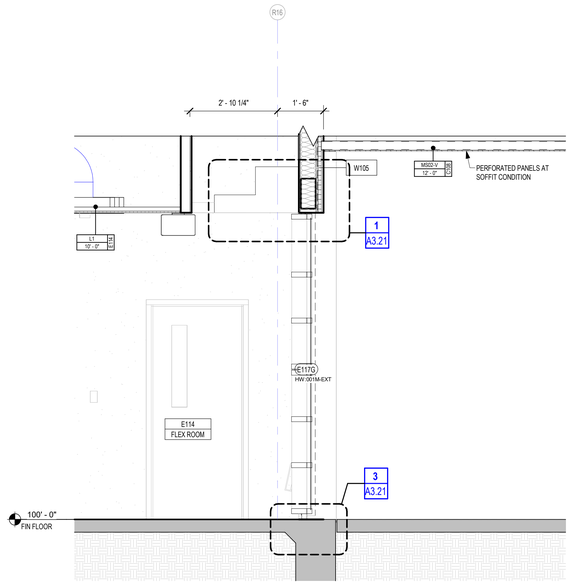
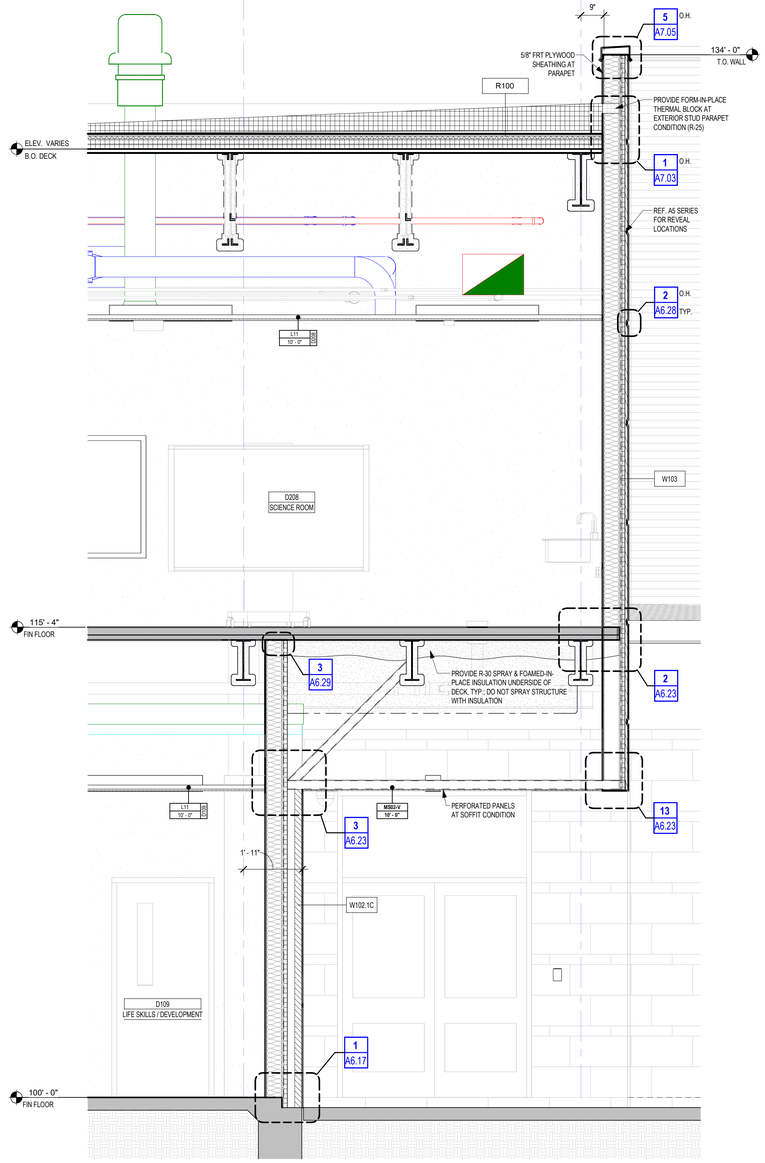


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1E



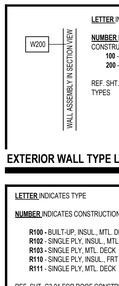
2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1E



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1D

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES
APPLICABLE TO ALL A6 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS



LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
   REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision /	Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29 [illegible]
7/15/2026

Huckabee
www.huckabee-inc.com
800.687.1229

WALL SECTIONS

VOLUME 01

Job No. 0/2602-04-01	Sheet No. A6.06
Drawn By: MF	
Date: 07.15.26	

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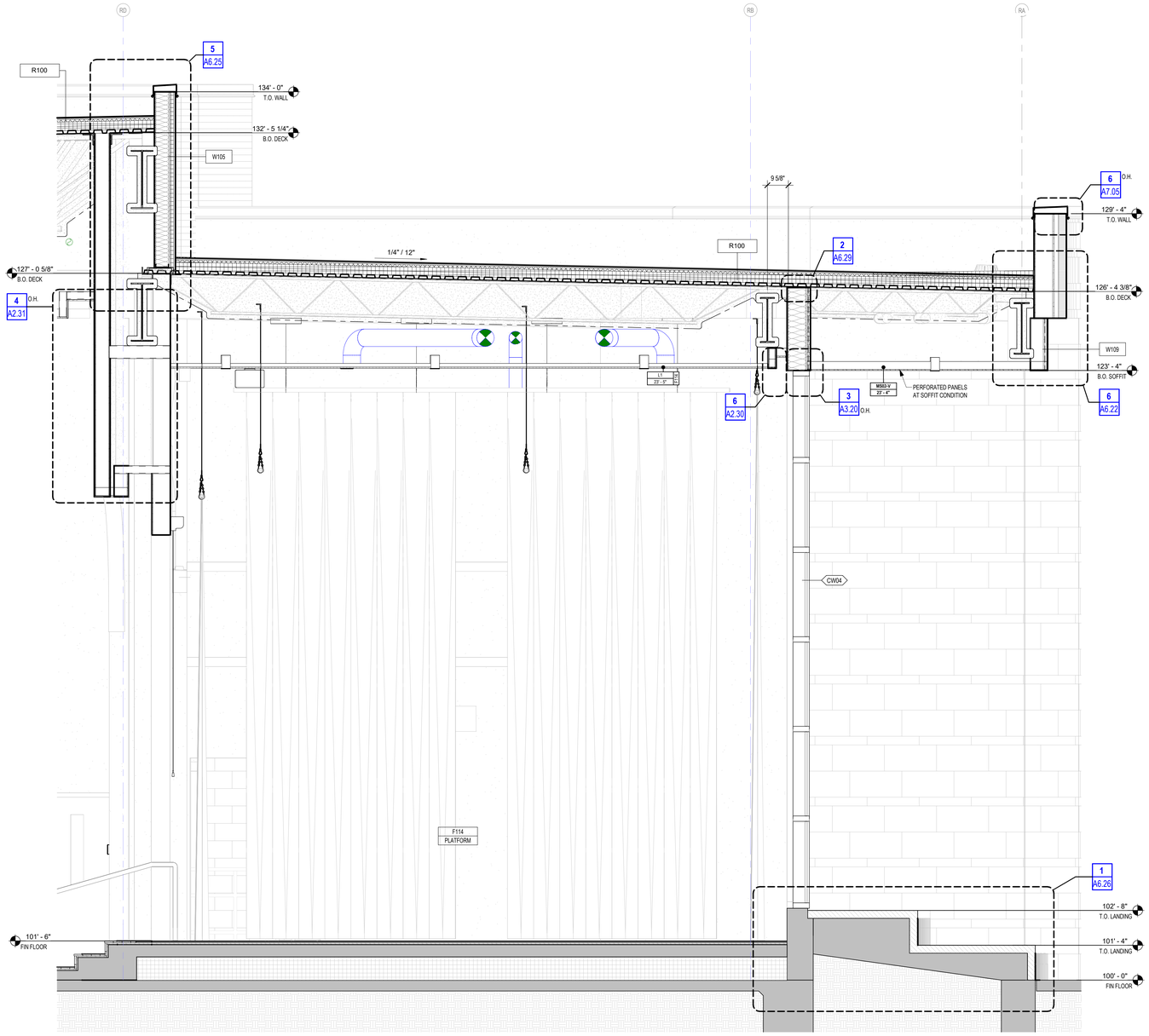
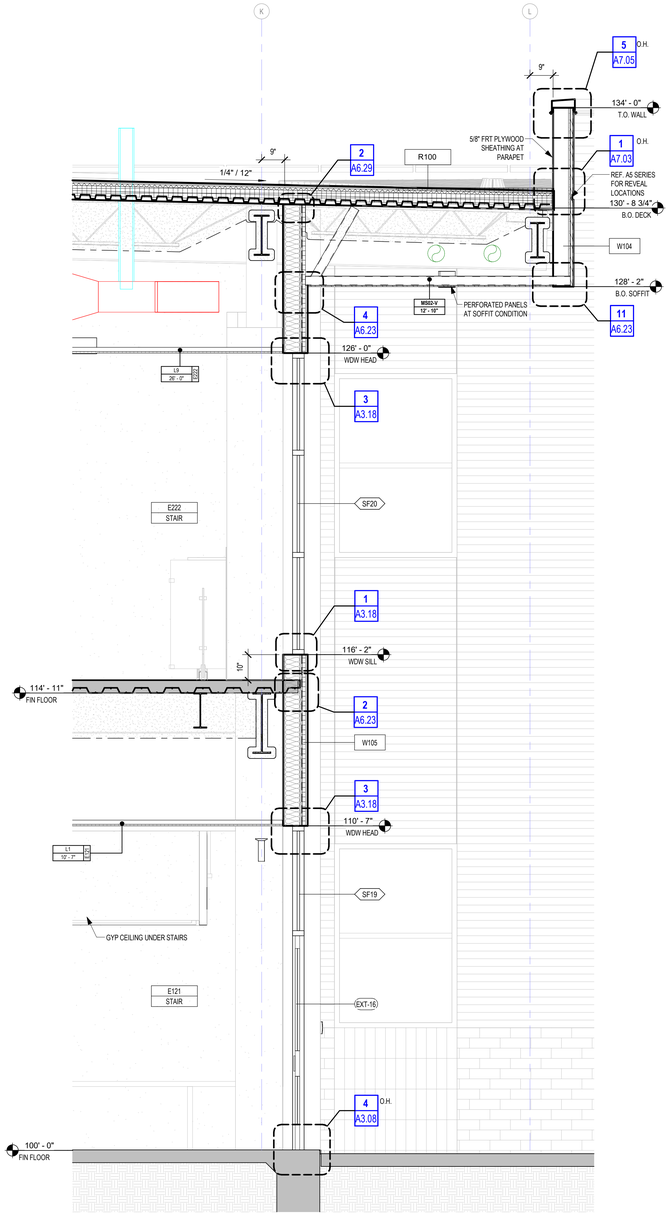


2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1E

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES
APPLICABLE TO ALL A6 SHEETS

W200 — WALL ASSEMBLY IN SECTION VIEW

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS

A3 D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **N4**, ACOUSTICAL
   COLUMN FURRING - **W4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CARY LINMUNCH — STATE OF TEXAS — 29 — 7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.07
Drawn By: MF	
Date: 07.15.26	

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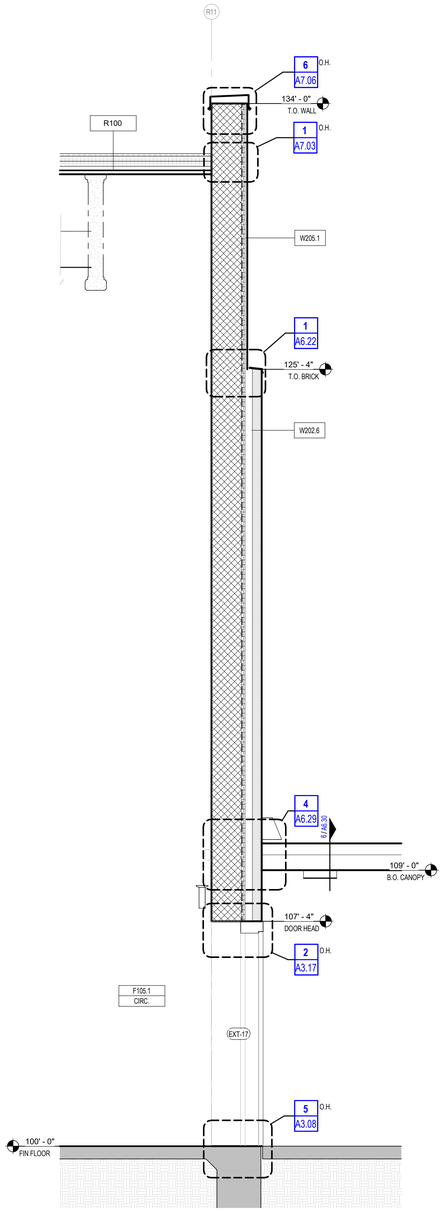
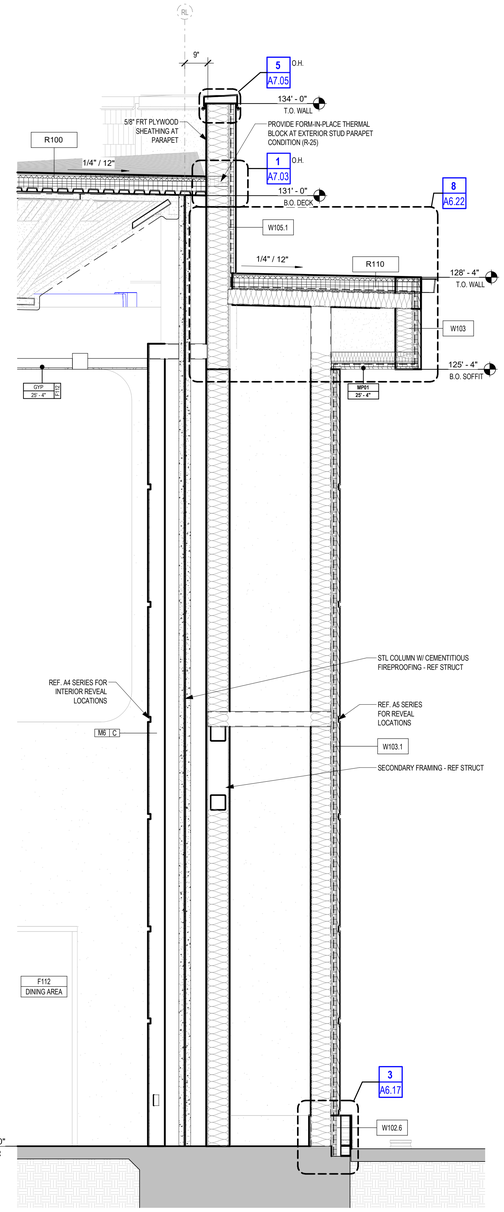
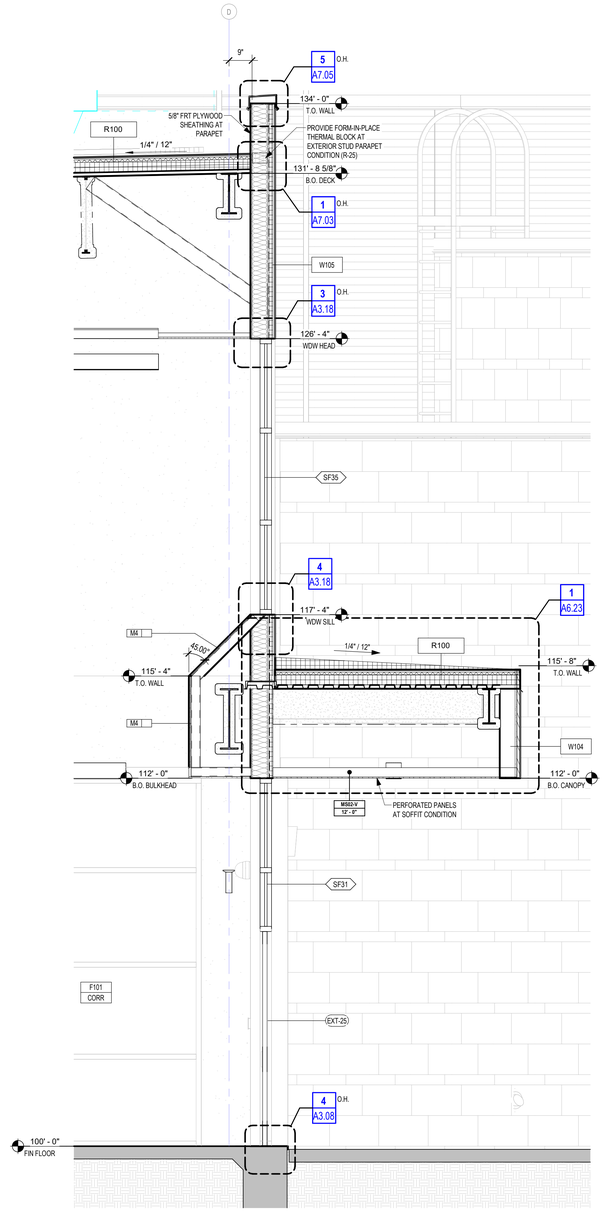


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"x4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BEDJOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
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14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS



LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS,PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNICH 29 STATE OF TEXAS
7/15/2026

Huckabee
www.huckabee-inc.com
800.687.1229

WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.08
Drawn By: MF	
Date: 07.15.26	

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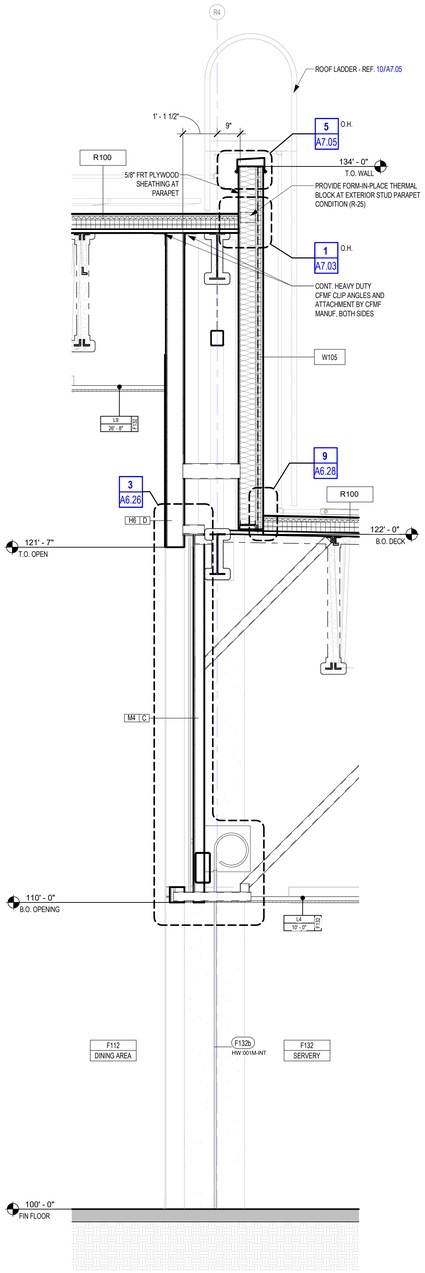
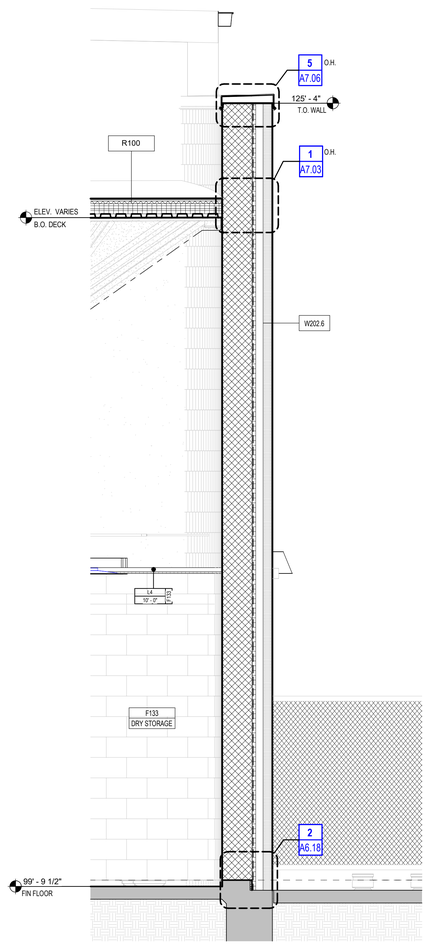
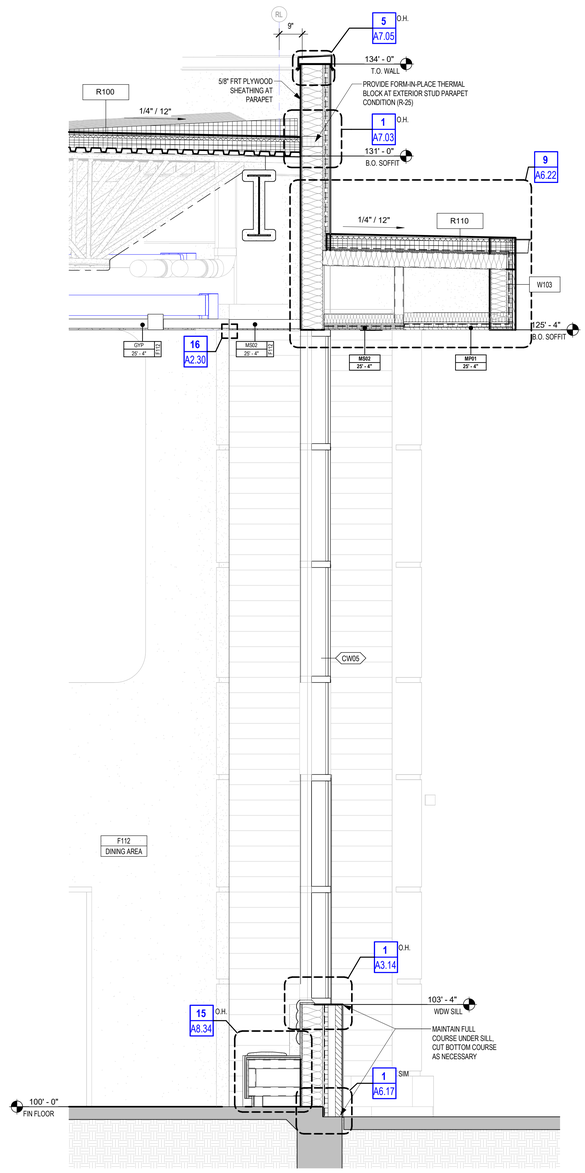


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F

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5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
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14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

W200 — WALL ASSEMBLY IN SECTION VIEW

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS

A3 | D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS,PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.09
Drawn By: MF	
Date: 07.15.26	

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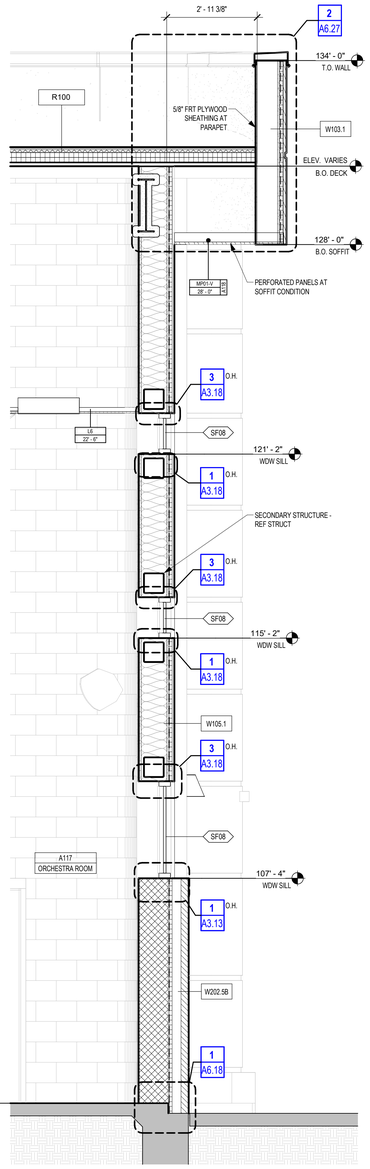
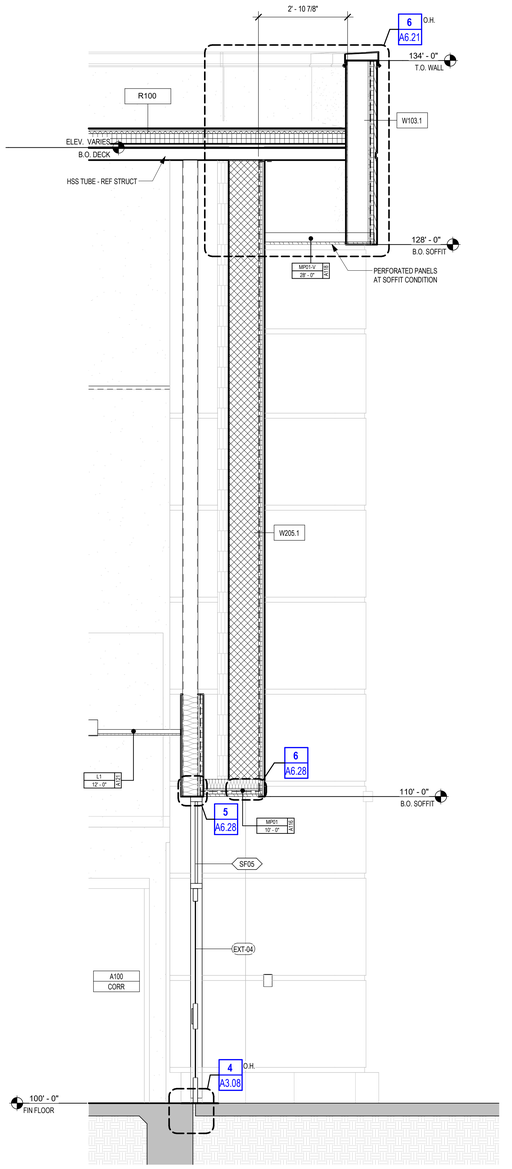
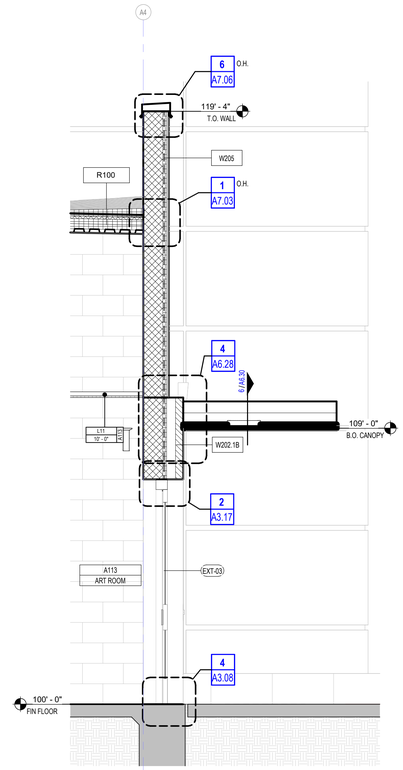


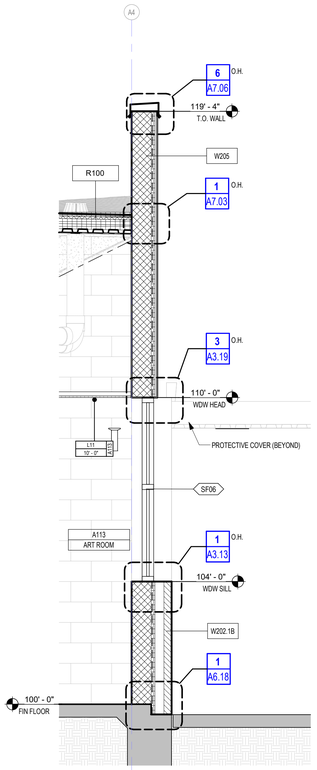
4 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES
APPLICABLE TO ALL A6 SHEETS

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

W200 — WALL ASSEMBLY N SECTION VIEW

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY N SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY N PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
WALLS/PARTITIONS - TYPE **N1**, ACOUSTICAL
COLUMN FURRING - **N1A**, NON-ACOUSTICAL
ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.10
Drawn By: MF	
Date: 07.15.26	

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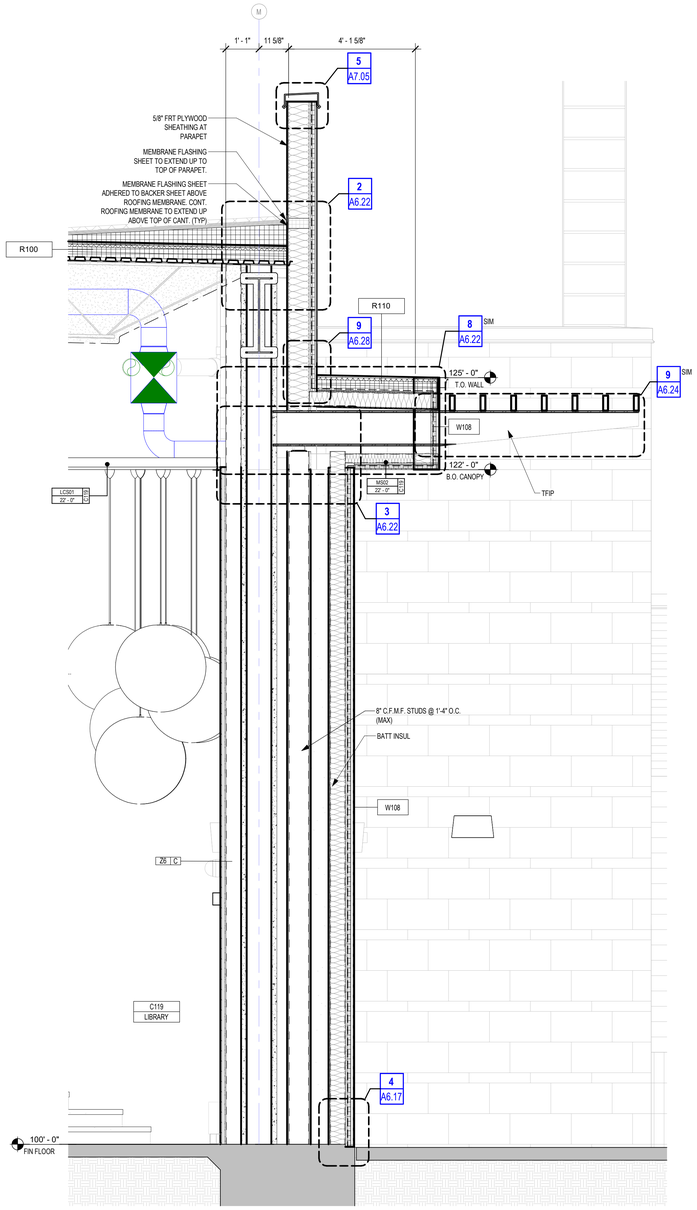
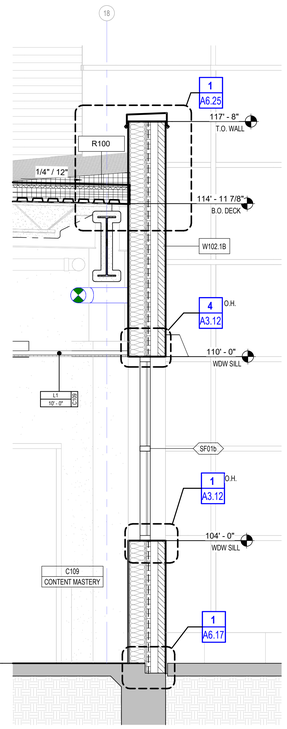
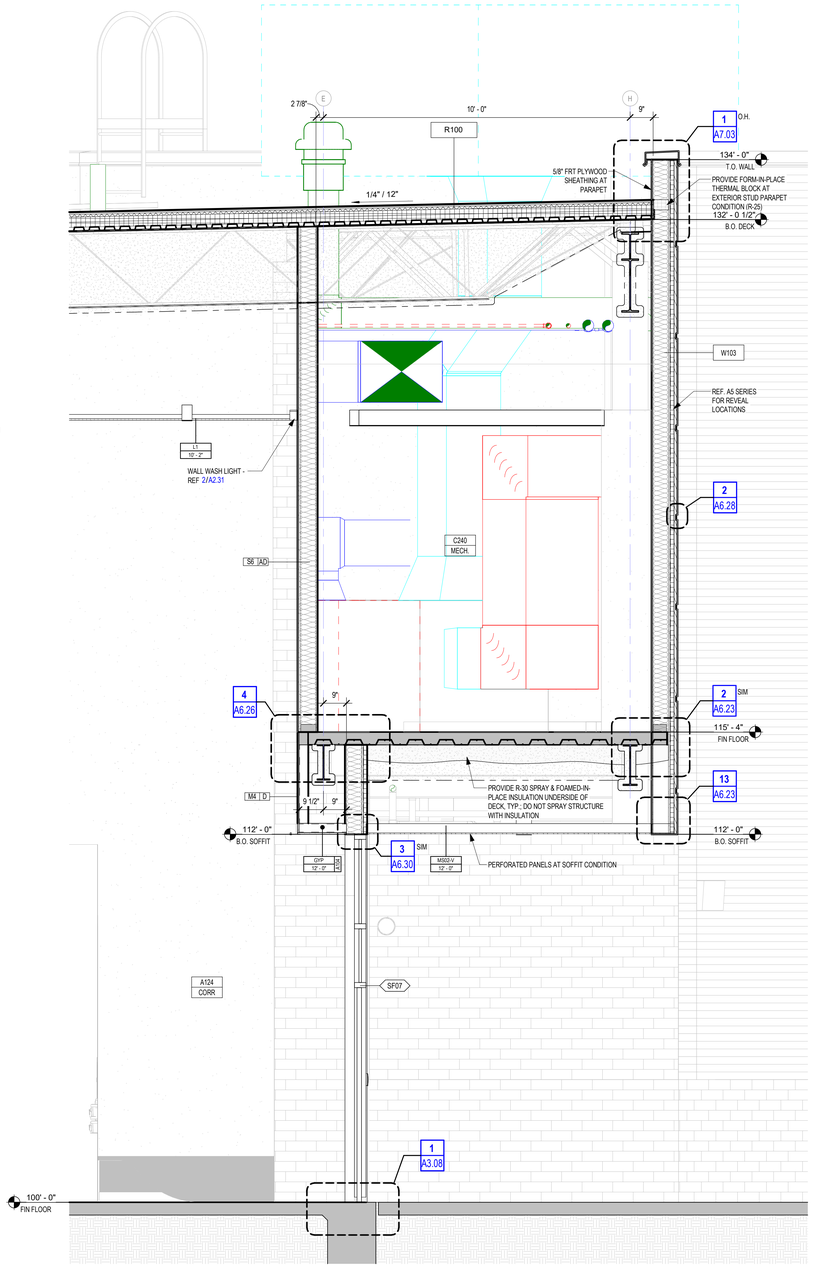


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES
APPLICABLE TO ALL A4 SHEETS

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

W200 — WALL ASSEMBLY IN SECTION VIEW

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER

STANDARD CMU

ARCHITECTURAL CMU (ACMU)

CFMF PARTITION

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
COLUMN FURRING - **W4**, NON-ACOUSTICAL
ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CARY LIN MUNICH — STATE OF TEXAS — 29 — 7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.11
Drawn By: MF	
Date: 07.15.26	

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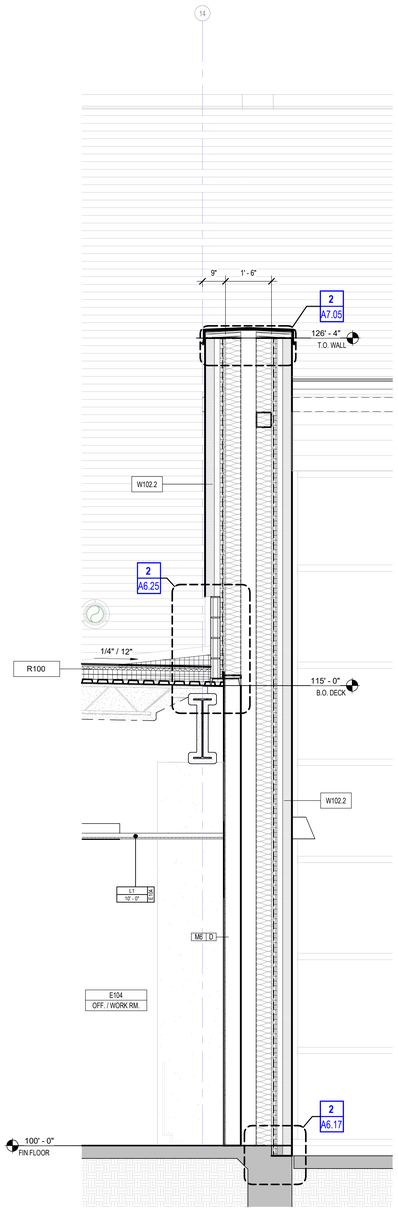
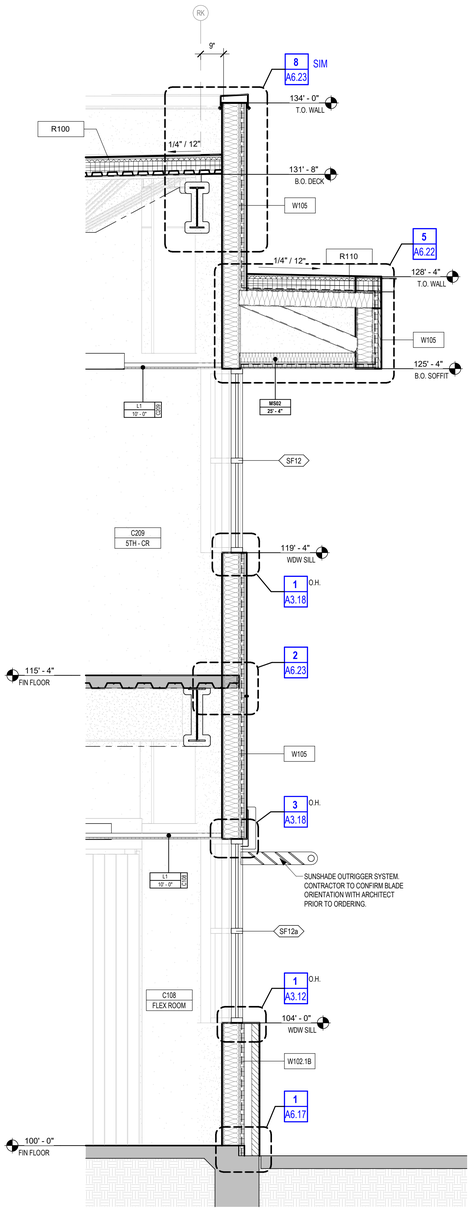
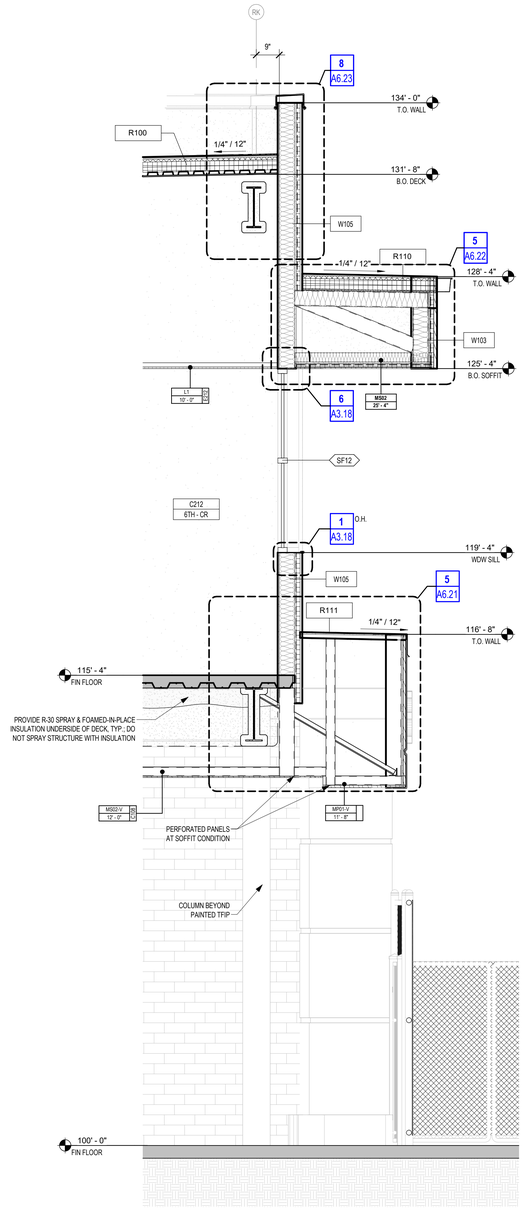


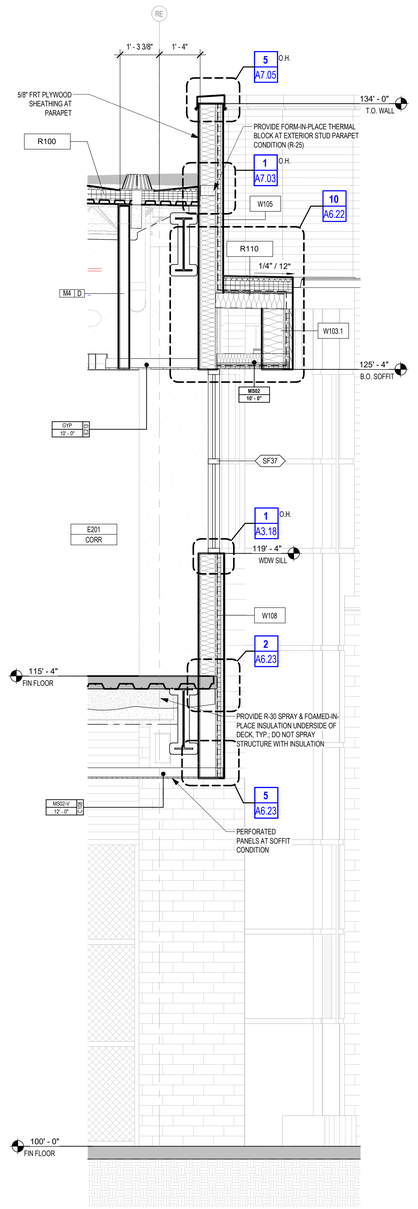
4 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.2C



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.2C

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
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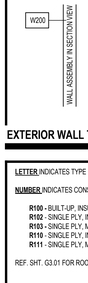
EXTERIOR WALL TYPE LEGEND



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

ROOF TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100
ROOF ASSEMBLY IN SECTION VIEW

PARTITION LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.
MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS

A3 D
WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **H4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.12
Drawn By: MF	
Date: 07.15.26	

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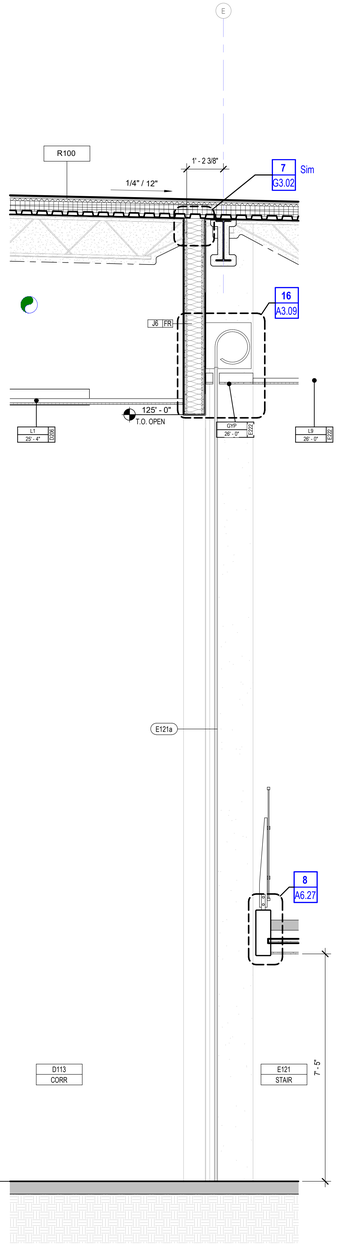
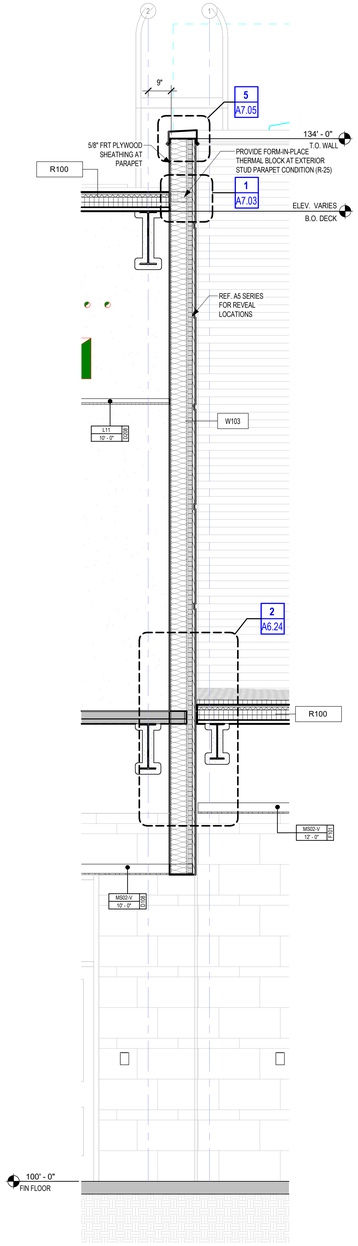
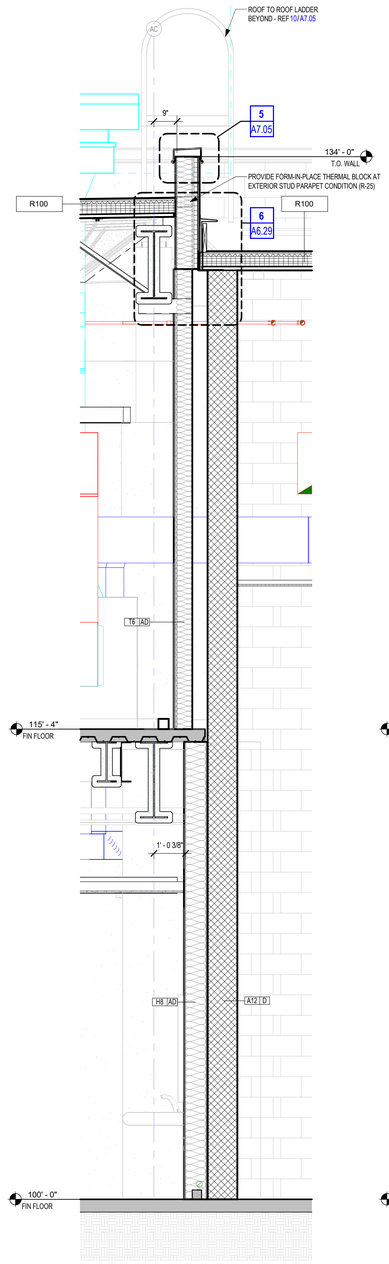


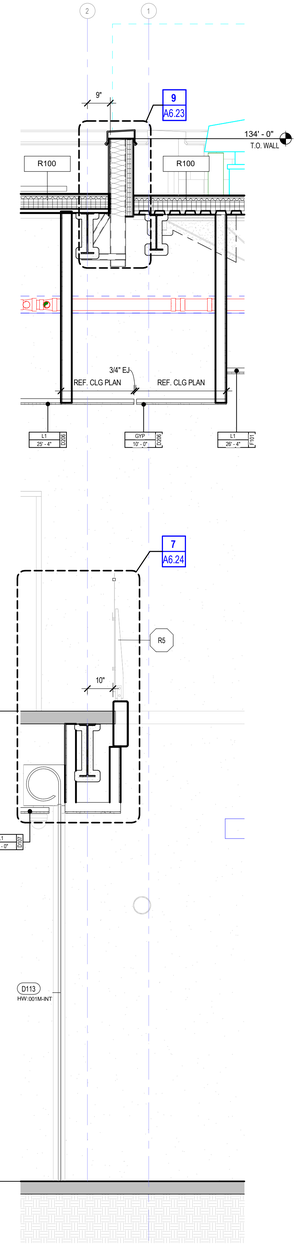
5 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1D



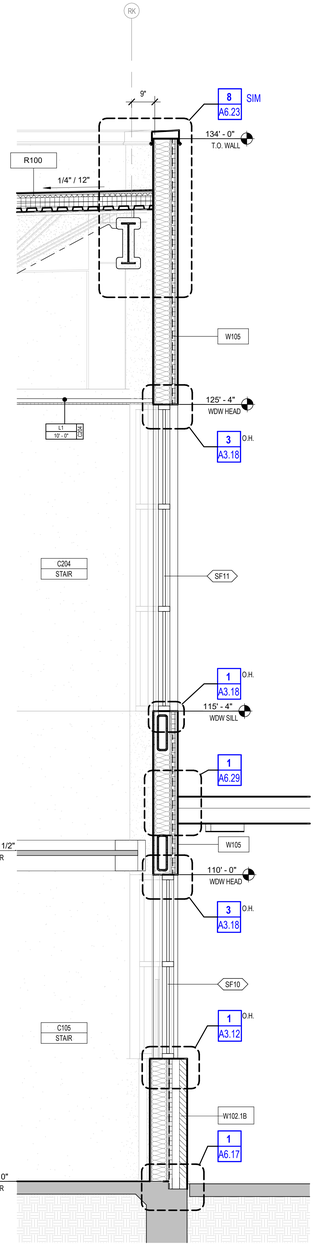
4 WALL SECTION
1/2" = 1'-0" BACK REF: A1.2D



3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1D



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.2C

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"X4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES
APPLICABLE TO ALL A6 SHEETS

LETTER INDICATES EXTERIOR WALL

W200 — WALL ASSEMBLY IN SECTION VIEW

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
- **100** - CFMF
- **200** - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

- **R100** - BUILT-UP, INSUL., MTL. DECK
- **R102** - SINGLE PLY, INSUL., MTL. DECK
- **R103** - SINGLE PLY, MTL. DECK
- **R110** - SINGLE PLY, INSUL., FRT PLY., CFMF
- **R111** - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- MASONRY VENEER
- STANDARD CMU
- ARCHITECTURAL CMU (ACMU)
- CFMF PARTITION

PARTITION TYPE TAGS

A3 / D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — 29 — STATE OF TEXAS
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.13
Drawn By: MF	
Date: 07.15.26	

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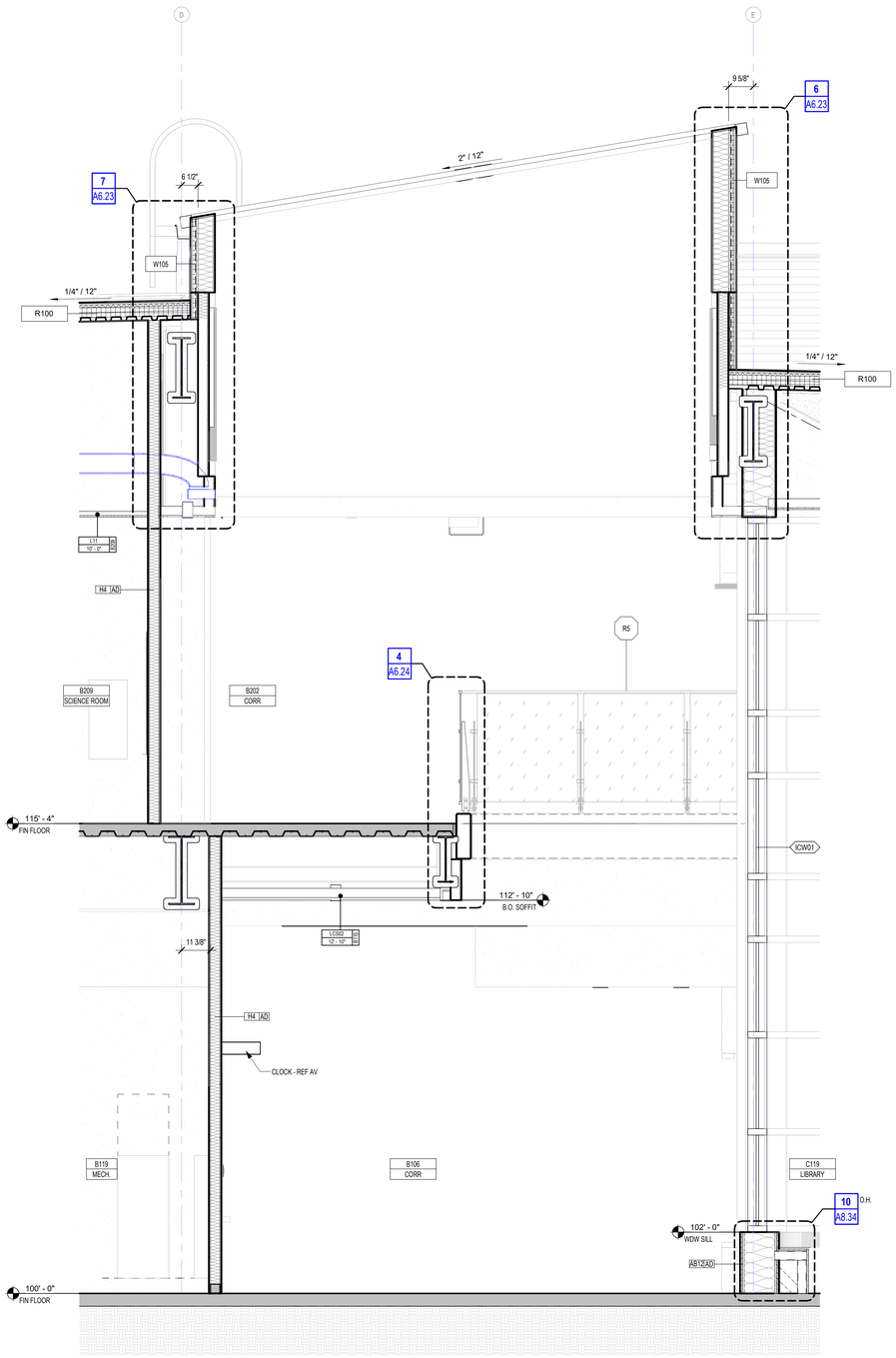
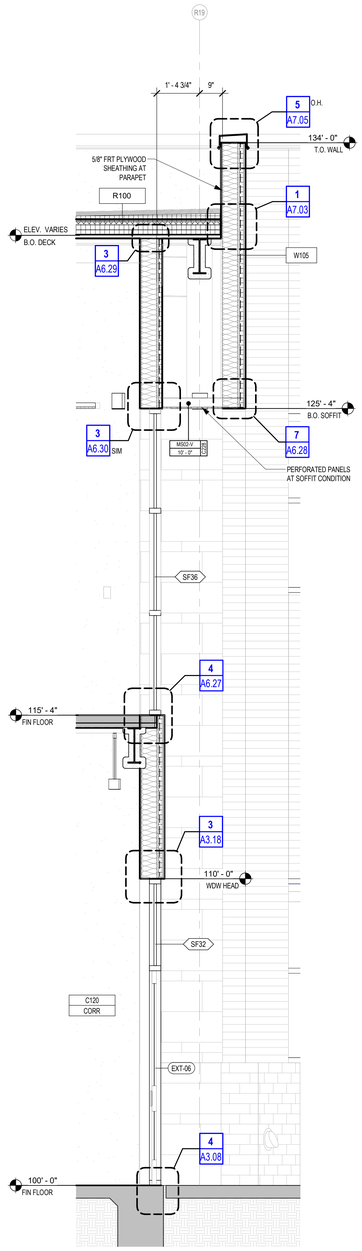
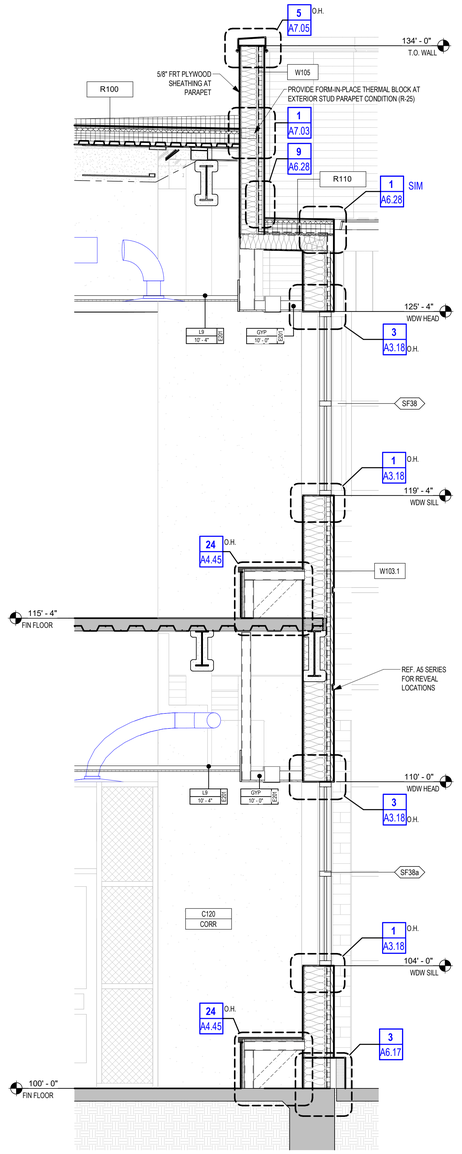


3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1B



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"x4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

W200 — WALL ASSEMBLY IN SECTION VIEW

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS

A3 D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP. WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
COLUMN FURRING - **M4**, NON-ACOUSTICAL
ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT — CAITLIN MUNCH — STATE OF TEXAS — 29 [illegible]
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 0/2602-04-01	Sheet No. A6.14
Drawn By: MF	
Date: 07.15.26	

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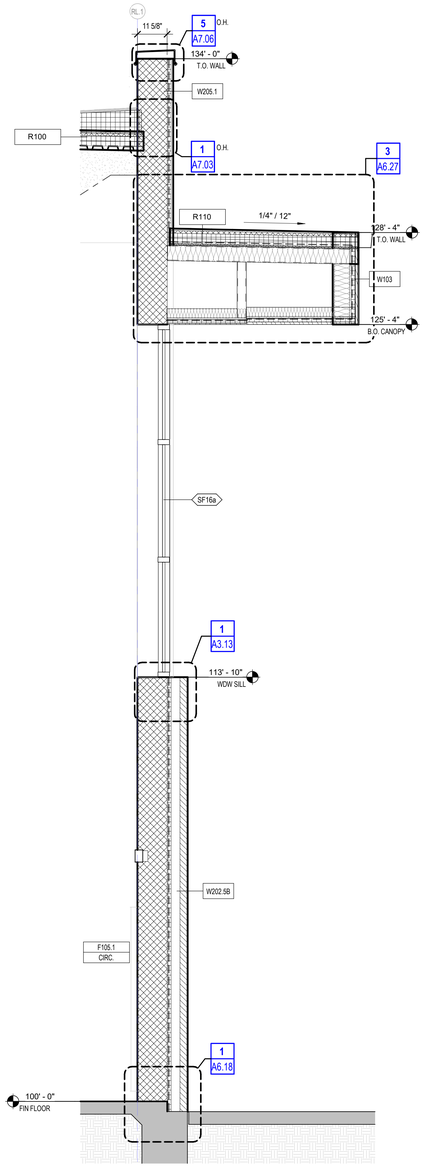
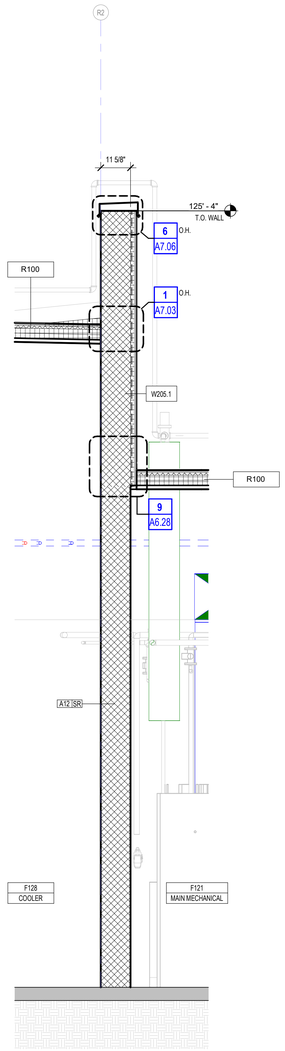
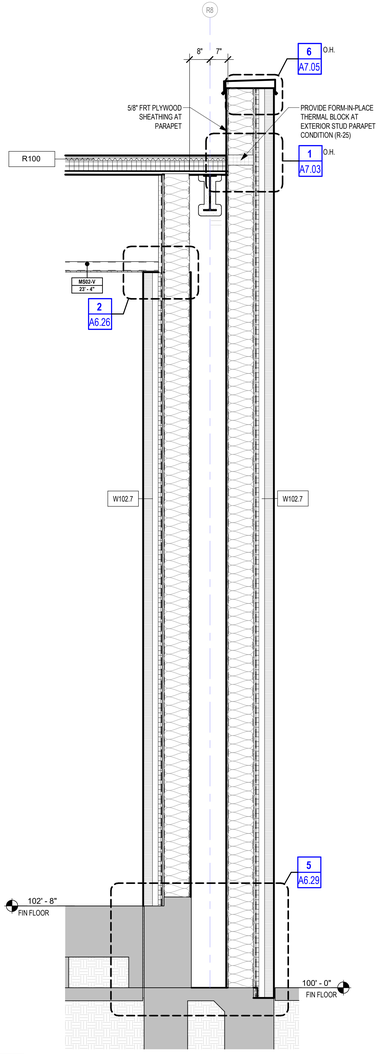


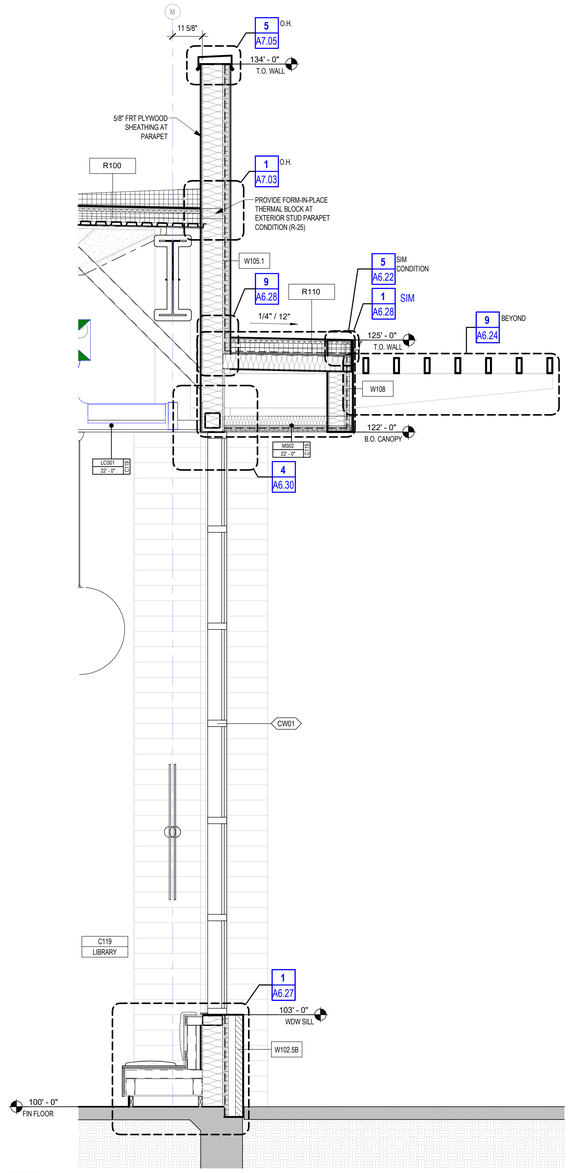
4 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"x4"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN. GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
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EXTERIOR WALL TYPE LEGEND

W200 — WALL ASSEMBLY IN SECTION VIEW

LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
- **100** - CFMF
- **200** - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

ROOF TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

- **R100** - BUILT-UP, INSUL., MTL. DECK
- **R102** - SINGLE PLY, INSUL., MTL. DECK
- **R103** - SINGLE PLY, MTL. DECK
- **R110** - SINGLE PLY, INSUL., FRT PLY., CFMF
- **R111** - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

R100 — ROOF ASSEMBLY IN SECTION VIEW

PARTITION LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

- **MASONRY VENEER**
- **STANDARD CMU**
- **ARCHITECTURAL CMU (ACMU)**
- **CFMF PARTITION**

PARTITION TYPE TAGS

A3 | D — WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP. WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
- 1 - 7/8" HAT CHANNEL
- 2 - 1 5/8" CFMF
- 3 - 2 1/2" CFMF
- 4 - 3 5/8" CFMF OR CMU
- 6 - 6" CFMF OR 5 5/8" CMU
- 8 - 8" CFMF OR 7 5/8" CMU
- 10 - 9 5/8" CMU
- 12 - 11 5/8" CMU

PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHANUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHANUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **M4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29 [illegible]
7/15/2026

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WALL SECTIONS

VOLUME 01

Job No. 00802-04-01	Sheet No. A6.15
Drawn By: MF	
Date: 07.15.26	

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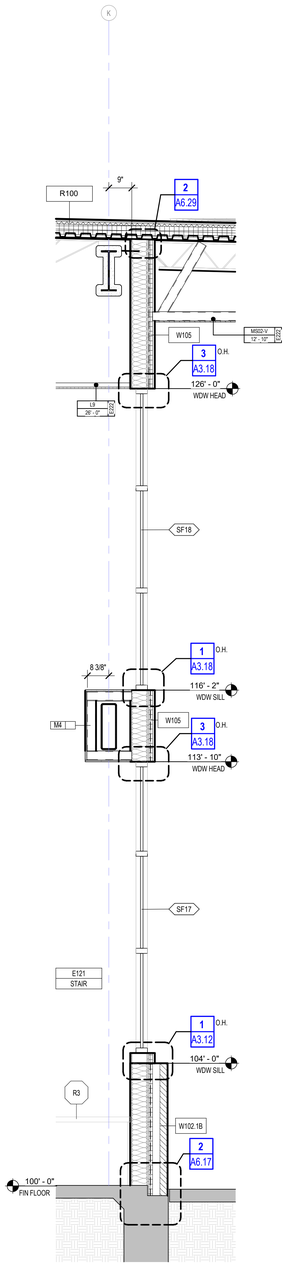
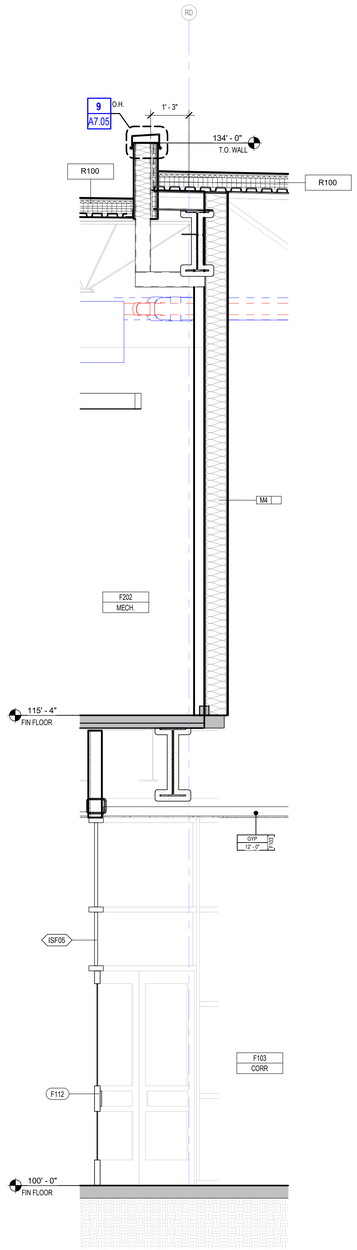
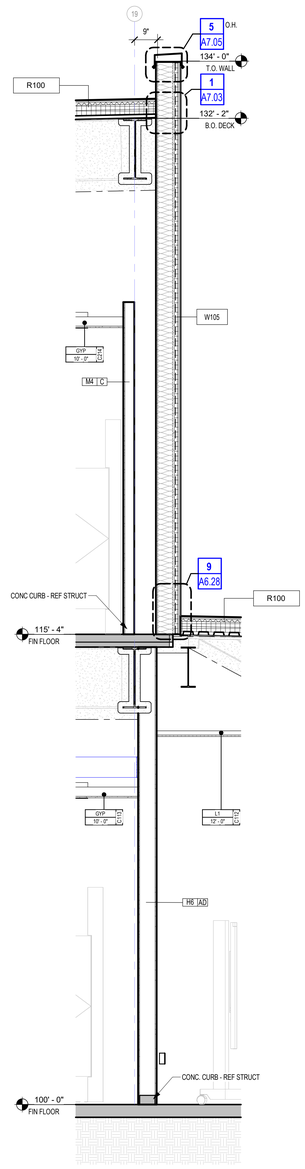


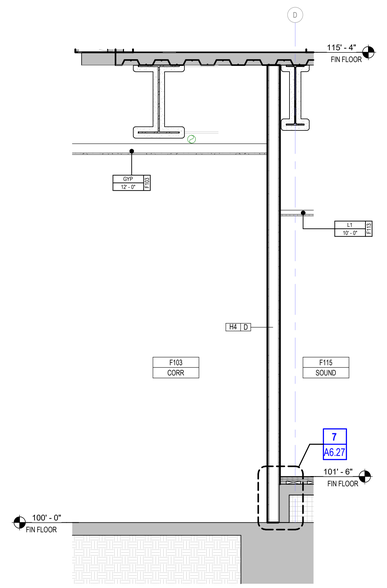
6 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1E



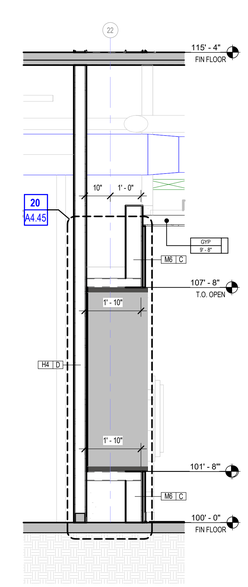
5 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



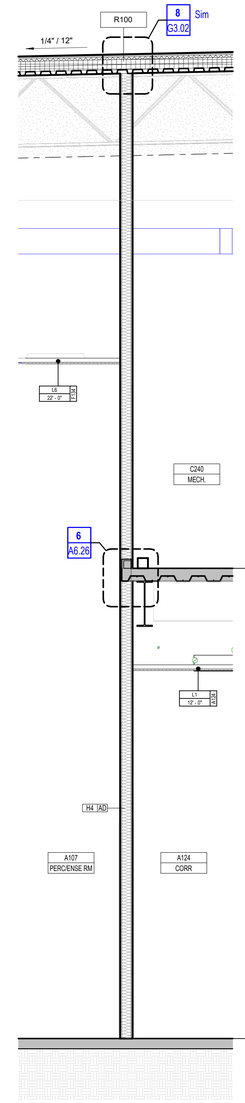
4 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C



3 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1F



2 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1C

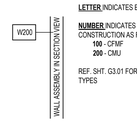


1 WALL SECTION
1/2" = 1'-0" BACK REF: A1.1A

1. REFER ALSO TO G3 SHTS FOR WALL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY, AS NEEDED, TO ALL WALL SECTIONS U.N.O.
2. REINFORCING IN CONCRETE BEAMS, FOOTINGS, & PIERS HAS NOT BEEN INDICATED FOR CLARITY. REFER TO STRUCTURAL DRAWINGS FOR THIS REINFORCING.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONAL CONDITIONS BETWEEN ALL STRUCTURAL ELEMENTS & THE ARCHITECTURAL ELEMENTS FOR CONFLICTS. IF DISCREPANCIES ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
4. AT ALL EXTERIOR WALLS, PLACE WEATHER BARRIER AT THE EXTERIOR FACE OF CMU OR SHEATHING. CONTRACTOR TO VERIFY CHEMICAL COMPATIBILITY OF WEATHER BARRIER & SELF-ADHESIVE FLASHING.
5. PROVIDE 3 STACKED BRICK HEADERS OR ONE SOLID BRICK AT ALL SOLDIER OUTSIDE CORNERS. (4"W"X3 5/8")
6. PROVIDE A WEATHERED MORTAR JOINT AT ALL EXTERIOR CONDITIONS WHERE THE MASONRY COURSE BELOW THE JOINT PROJECTS BEYOND THE COURSE ABOVE.
7. WHERE CMU IS SHOWN SHADED, FILL CELL SOLID WITH GROUT UNLESS NOTED IN DETAILS AS MORTAR. COORDINATE ALL LOCATIONS WITH STRUCTURAL DRAWINGS. IN CASES OF APPARENT CONFLICT, STRUCTURAL DRAWINGS SHALL GOVERN DESIGN.
   GROUT
8. FILL ALL OPEN CELLS OF CMU SOLID WITH FOAM INSULATION AT ALL EXTERIOR CONDITIONS WHERE RIGID INSULATION IS NOT APPLIED IN THE CAVITY WALL.
9. PROVIDE THERMAL BATT INSULATION AT ALL EXTERIOR STUD WALLS & ACOUSTICAL BATT INSULATION AT INTERIOR STUD WALLS AS DESCRIBED IN SECTION 07 2100 OF THE SPECIFICATIONS.
10. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL WALL REINFORCING.
11. ALL MASONRY WALLS SHALL BE REINFORCED WITH CONTINUOUS HORIZONTAL BED JOINT REINFORCING AS SPECIFIED, AT 16" VERTICAL SPACING. AT VENEER CONDITIONS PROVIDE TIES AS SPECIFIED AT 16" O.C.E.W.
12. INFORMATION SHOWN BEYOND IN WALL SECTIONS IS PROVIDED FOR INFORMATION ONLY & SHALL NOT LIMIT THE SCOPE OF WORK REQUIRED IN THIS PROJECT.
13. SMALLER SCALE DRAWINGS MAY NOT SHOW ALL CONNECTIONS & FINISHES. ALWAYS REFER TO ENLARGED DETAILS, WHERE PROVIDED, FOR ADDITIONAL INFORMATION. IN CASES OF APPARENT CONFLICT, THE LARGER SCALED DETAIL SHALL APPLY.
14. INTERIOR WALL FINISHES ARE NOT SHOWN ON WALL SECTIONS TO AVOID VISUAL CLUTTER. REFER TO A4 SHEETS FINISH SCHED & INTERIOR ELEVATIONS FOR REQUIRED MATERIALS & MATERIAL PATTERNS.

TYPICAL WALL SECTION NOTES

APPLICABLE TO ALL A6 SHEETS



LETTER INDICATES EXTERIOR WALL

NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:
100 - CFMF
200 - CMU

REF. SHT. G3.01 FOR SPECIFIC WALL TYPES

EXTERIOR WALL TYPE LEGEND

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - BUILT-UP, INSUL., MTL. DECK
R102 - SINGLE PLY, INSUL., MTL. DECK
R103 - SINGLE PLY, MTL. DECK
R110 - SINGLE PLY, INSUL., FRT PLY., CFMF
R111 - SINGLE PLY, MTL. DECK

REF. SHT. G3.01 FOR ROOF CONSTRUCTION TYPES

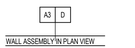


ROOF TYPE LEGEND

REF. TYP. CONST. DTLS. FOR ADDITIONAL INFO.

MASONRY VENEER
STANDARD CMU
ARCHITECTURAL CMU (ACMU)
CFMF PARTITION

PARTITION TYPE TAGS



LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

D	WALL TO DECK / STRUCTURE
C	WALL TO 6" (MIN.) ABOVE CEILING
FR	FIRE RATED WALL TO DECK
AD	ACOUSTICAL WALL TO DECK
AC	ACOUSTICAL WALL TO 6" (MIN.) ABOVE CEILING
AR	ACOUSTICAL RATED WALL TO DECK
GD	GYP. WALL ABOVE TO DECK
SR	SMOKE RESISTANT PARTITION TO DECK / STRUCTURE

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU
8 - 8" CFMF OR 7 5/8" CMU
10 - 9 5/8" CMU
12 - 11 5/8" CMU

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   COLUMN FURRING - **M4**, NON-ACOUSTICAL
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   REF. G3 SHEETS FOR EXTERIOR WALL TYPES AND INTERIOR PARTITION TYPE ASSEMBLIES.

PARTITION LEGEND

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Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
STATE OF TEXAS
29 [illegible]
7/15/2026

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WALL SECTIONS

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Job No. 0180204-01	Sheet No. A6.16
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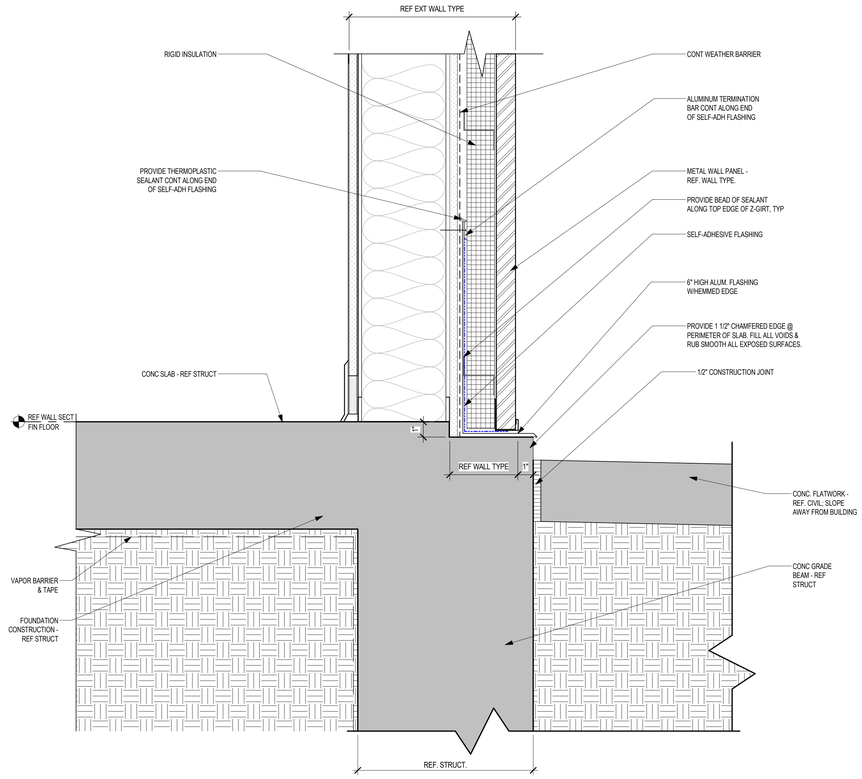
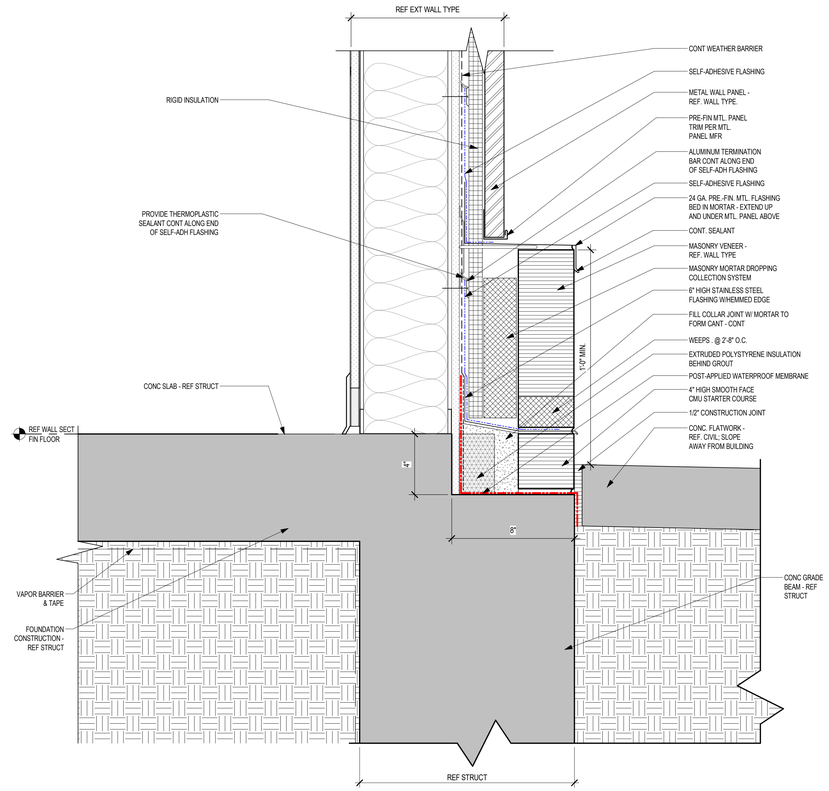
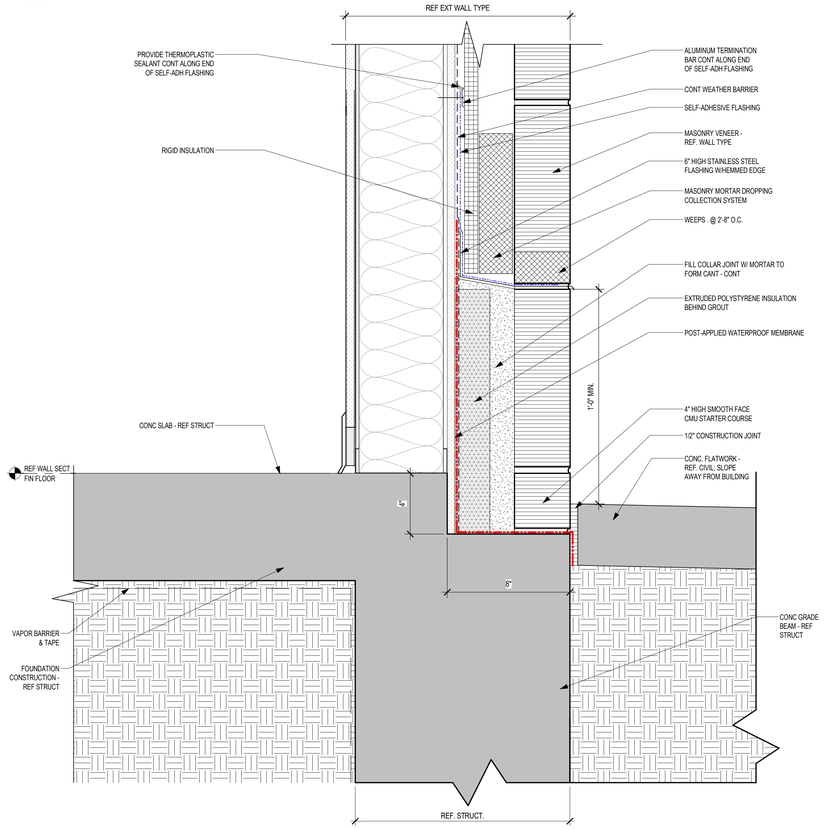


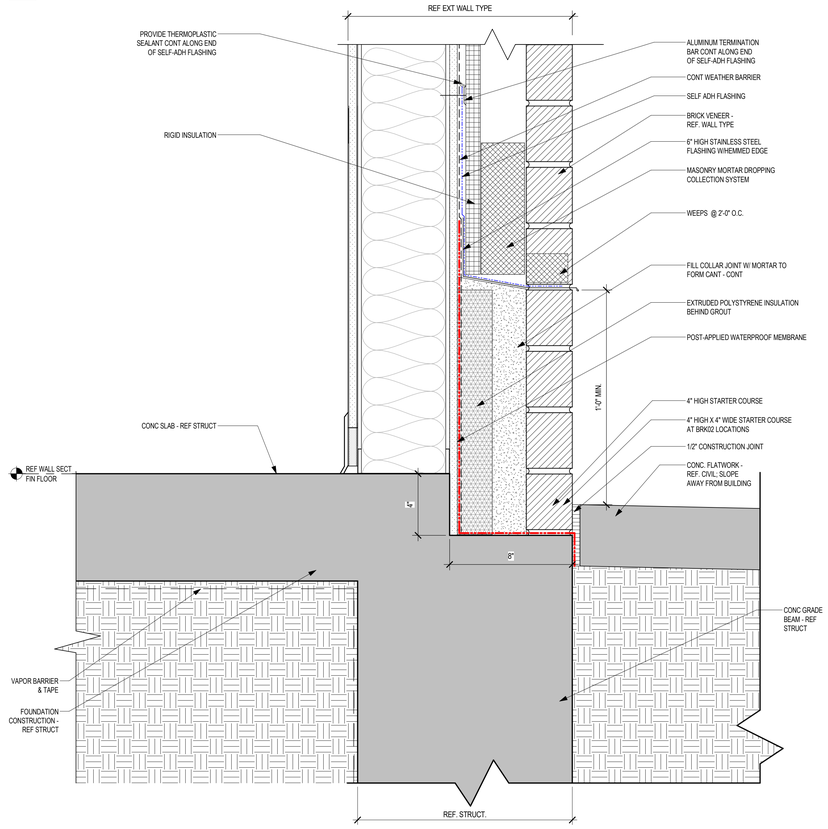
4 FOUNDATION DETAIL @ METAL PANEL & MTL. STUD WALL ON FLATWORK
3" = 1'-0"



3 FOUNDATION DETAIL @ METAL PANEL & SMOOTH FACE CMU & MTL. STUD WALL ON FLATWORK
3" = 1'-0"



2 FOUNDATION DETAIL @ SMOOTH FACE CMU & MTL. STUD WALL ON FLATWORK
3" = 1'-0"



1 FOUNDATION DETAIL @ BRICK & METAL STUD WALL ON FLATWORK
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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7/15/2026

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FOUNDATION DETAILS

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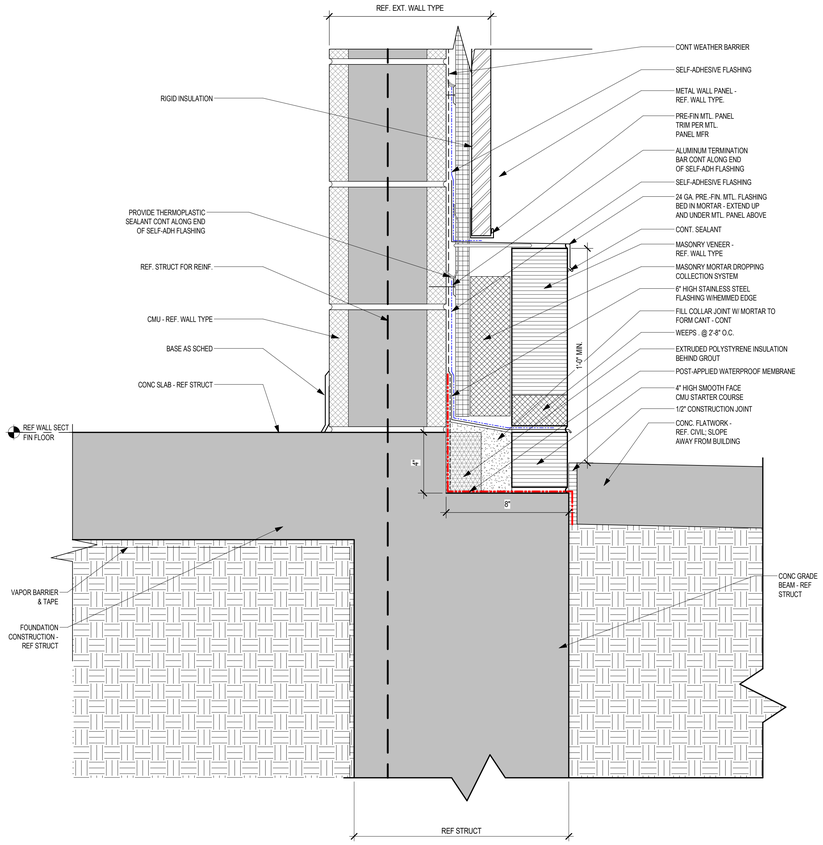
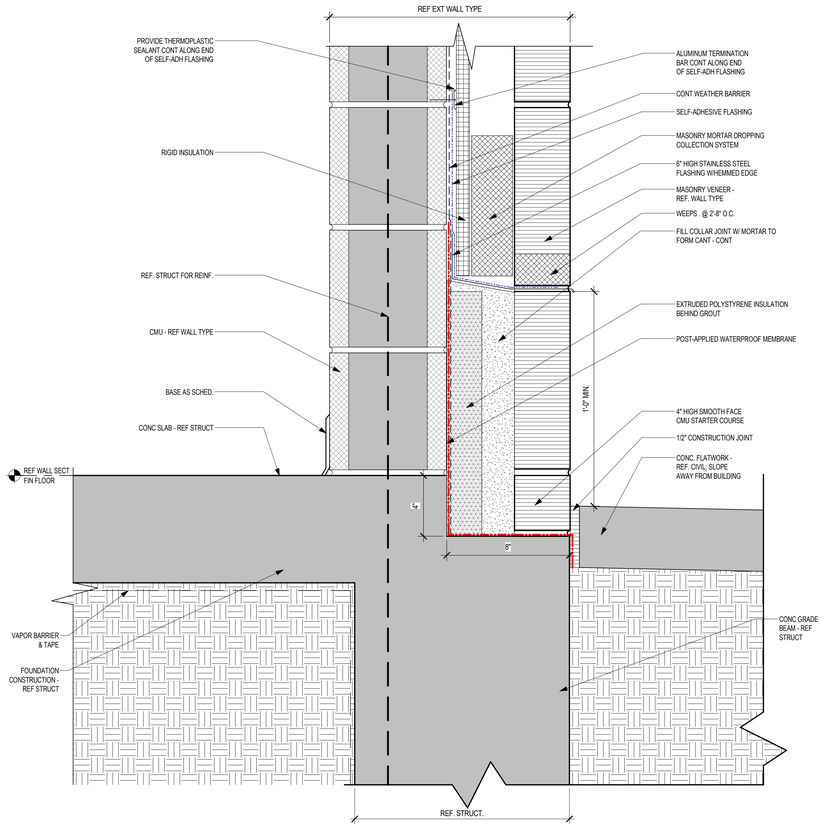
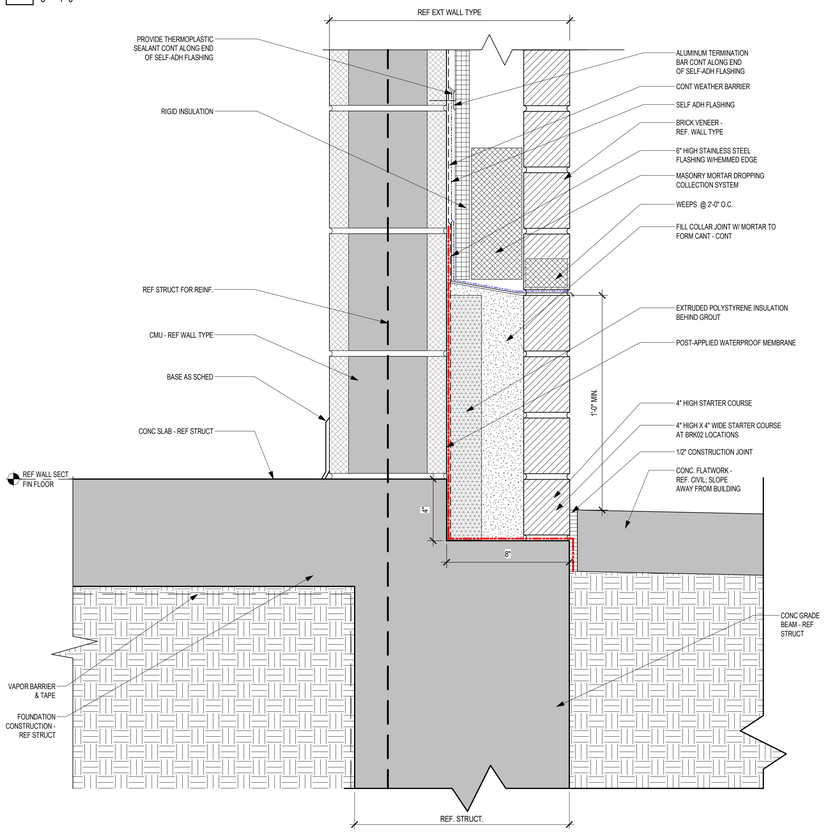


3 FOUNDATION DETAIL @ METAL PANEL & SMOOTH FACE CMU & CMU WALL ON FLATWORK
3" = 1'-0"



2 FOUNDATION DETAIL @ SMOOTH FACE CMU & CMU WALL ON FLATWORK
3" = 1'-0"



1 FOUNDATION DETAIL @ BRICK & CMU WALL ON FLATWORK
3" = 1'-0"

Date

Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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CAITLIN MUNCH
29 YEARS
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7/15/2026

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FOUNDATION DETAILS

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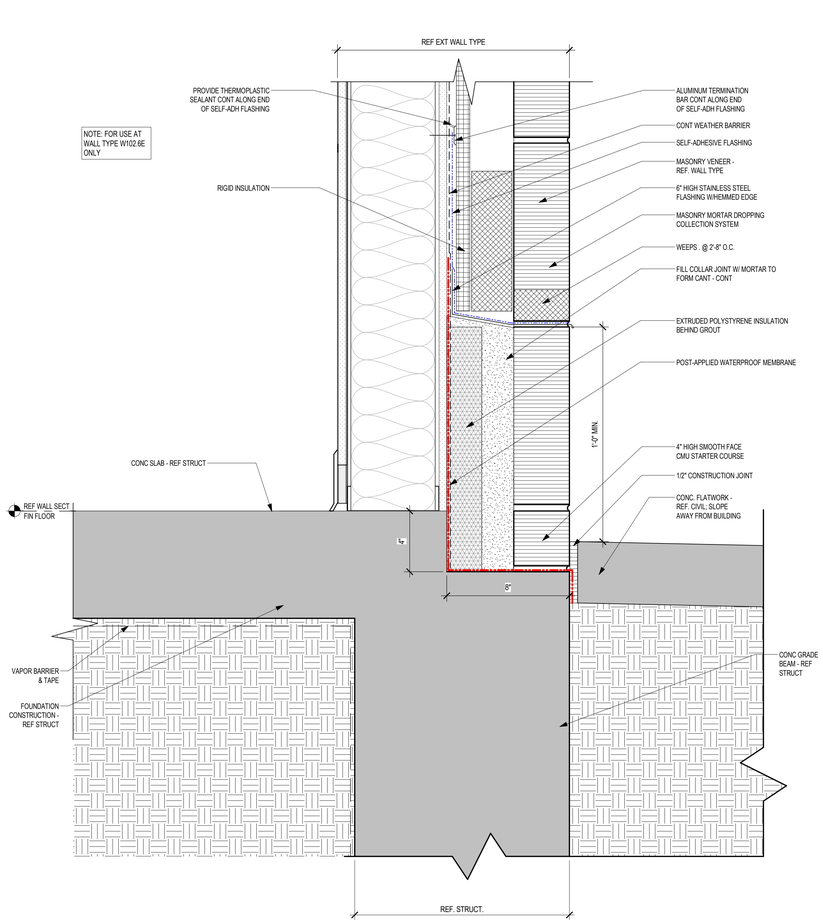
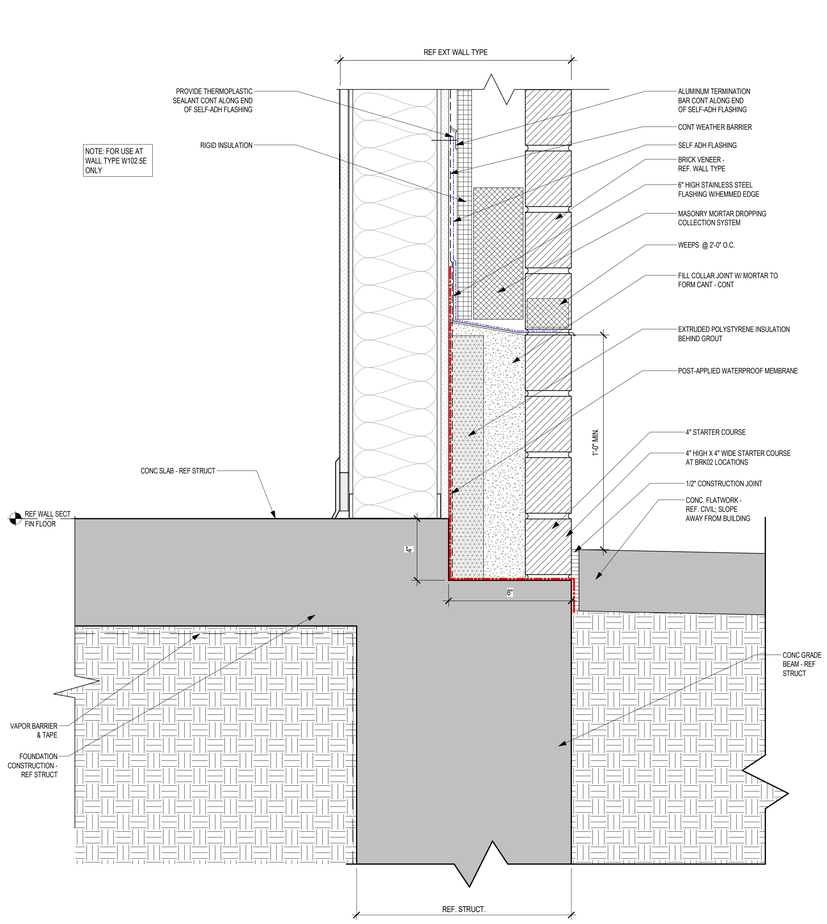


2 FOUNDATION DETAIL @ SMOOTH FACE CMU & MTL. STUD WALL ON FLATWORK (ALTERNATE)
3" = 1'-0"



1 FOUNDATION DETAIL @ BRICK & METAL STUD WALL ON FLATWORK (ALTERNATE)
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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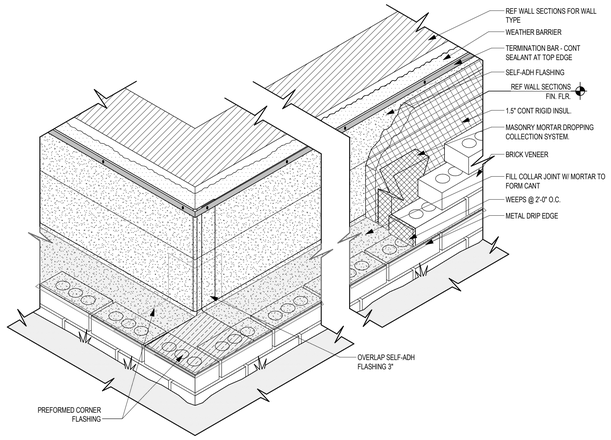
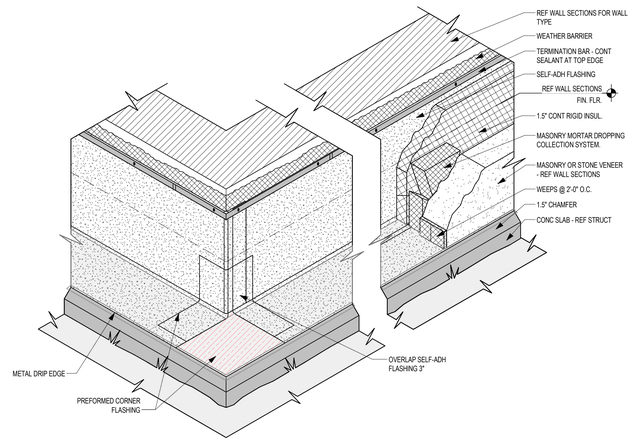
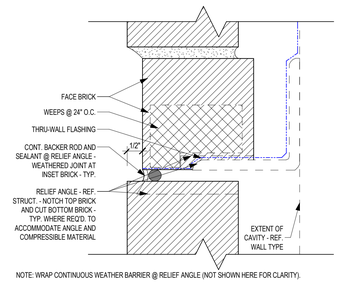


6 TYP BASE FLASHING GENERIC WALL
1 1/2" = 1'-0"

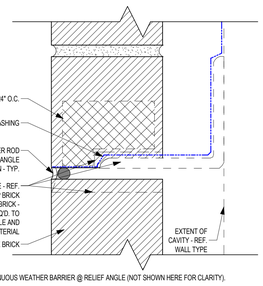


8 TYPICAL BASE FLASHING @ EXTERIOR WALL
1 1/2" = 1'-0"



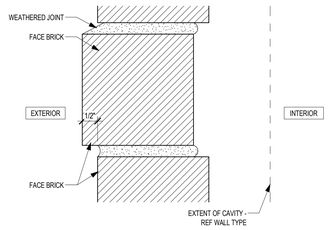
NOTE: WRAP CONTINUOUS WEATHER BARRIER @ RELIEF ANGLE (NOT SHOWN HERE FOR CLARITY).

5 TYP BRICK INSET
6" = 1'-0"

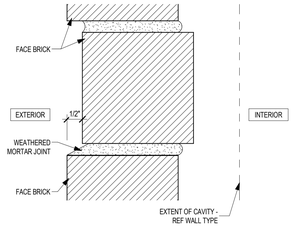


NOTE: WRAP CONTINUOUS WEATHER BARRIER @ RELIEF ANGLE (NOT SHOWN HERE FOR CLARITY).

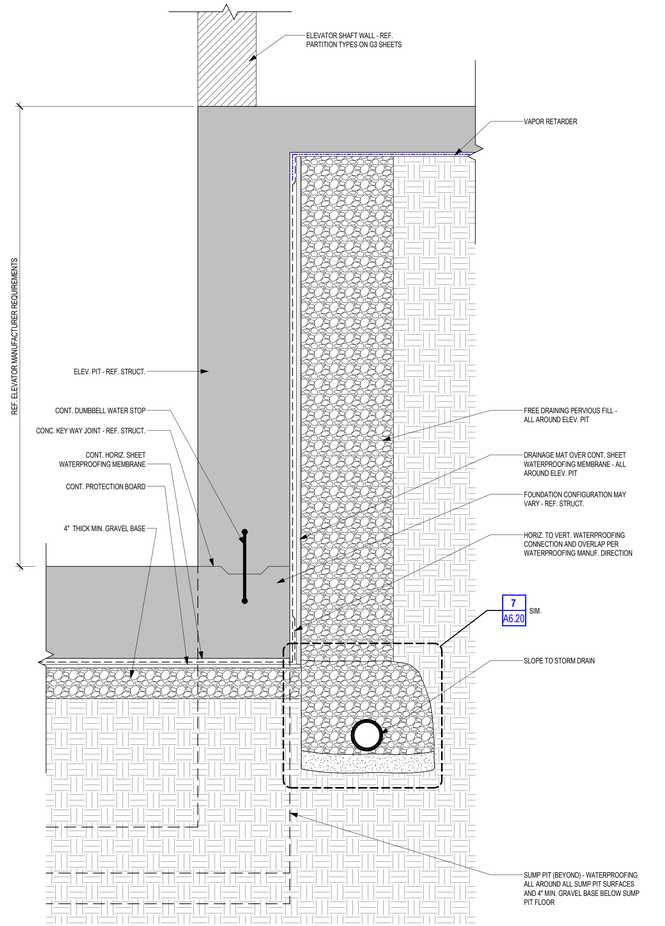
4 TYP BRICK RELIEF ANGLE
6" = 1'-0"

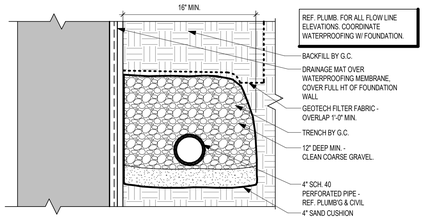


3 TYP BRICK INSET
6" = 1'-0"



2 TYP BRICK INSET @ RECESS
6" = 1'-0"





7 SUB SOIL DRAIN DETAIL
1 1/2" = 1'-0"

1 ELEVATOR PIT DETAIL
1 1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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WALL SECTIONS - BASE FLASHING, ELEVATOR PIT, AND MASONRY DETAILS

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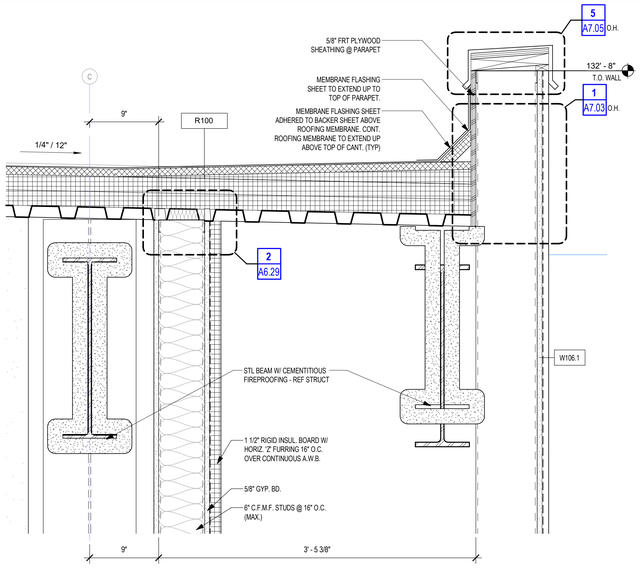
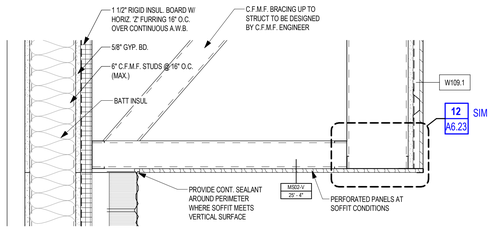
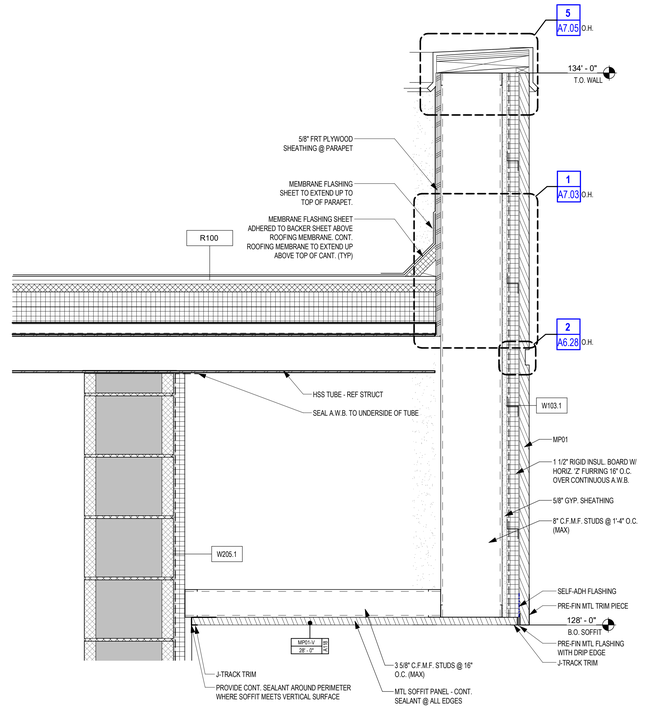


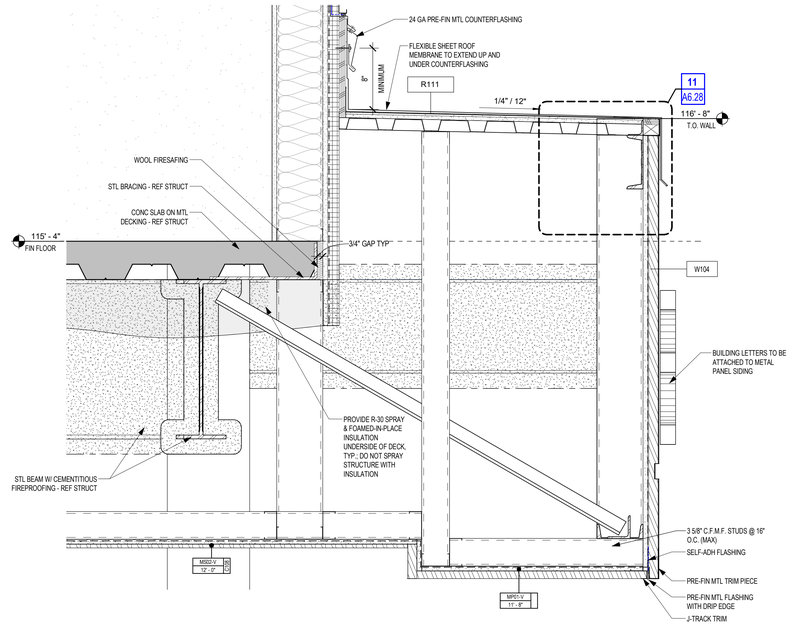
7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.02



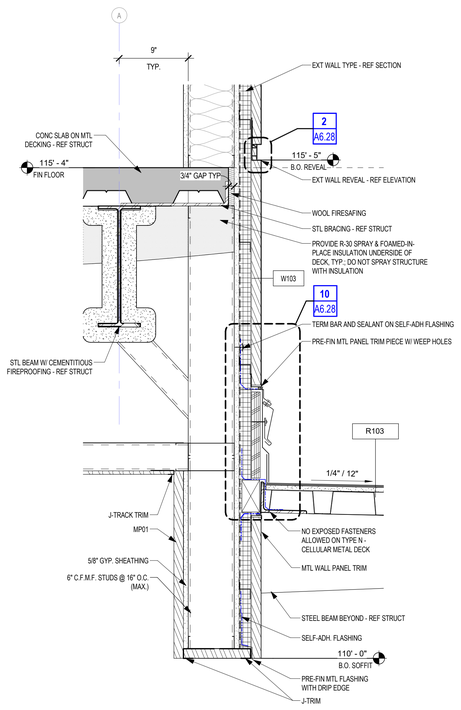
8 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.02



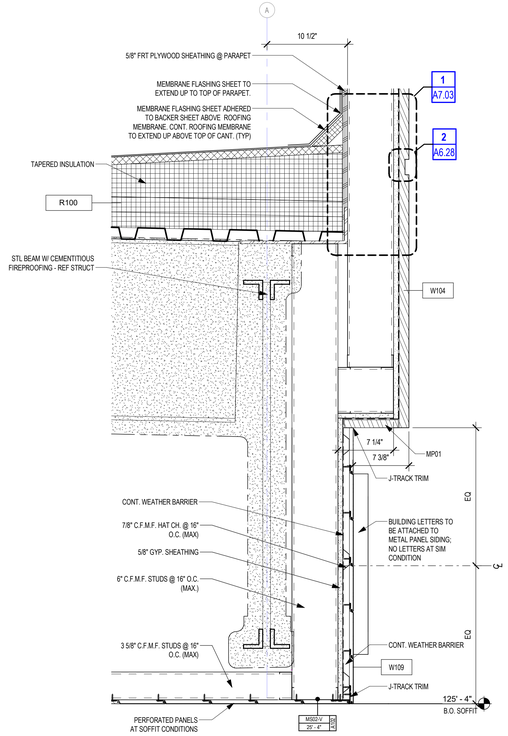
6 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.10



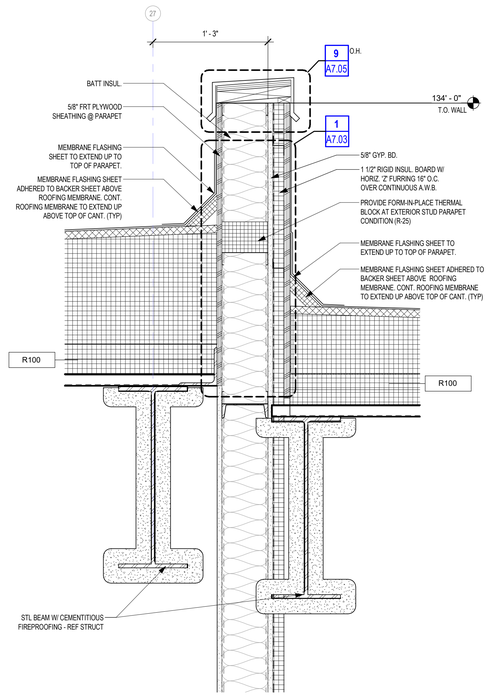
5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.12



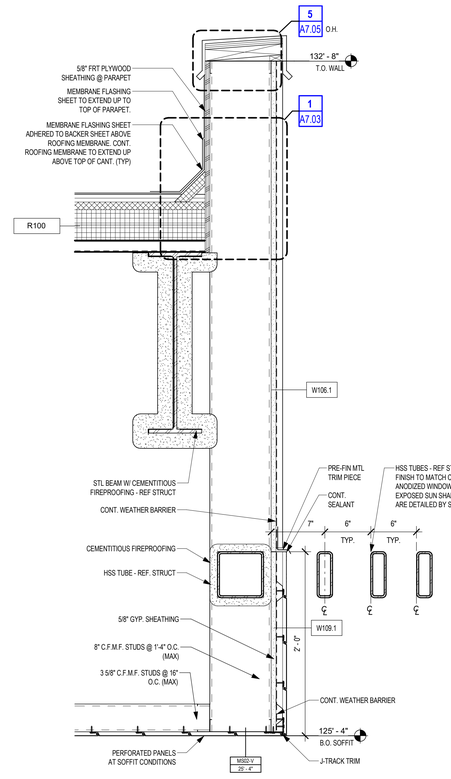
4 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04



3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.02



2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.05



1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.05

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FOR
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TOMBALL, TEXAS

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WALL SECTION DETAILS

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Drawn By: MF
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Sheet No. A6.21

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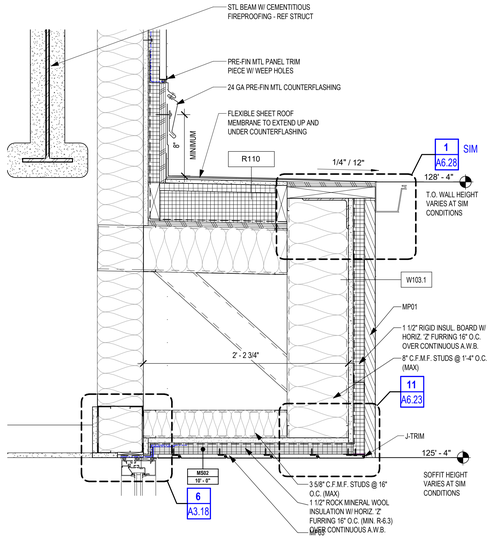
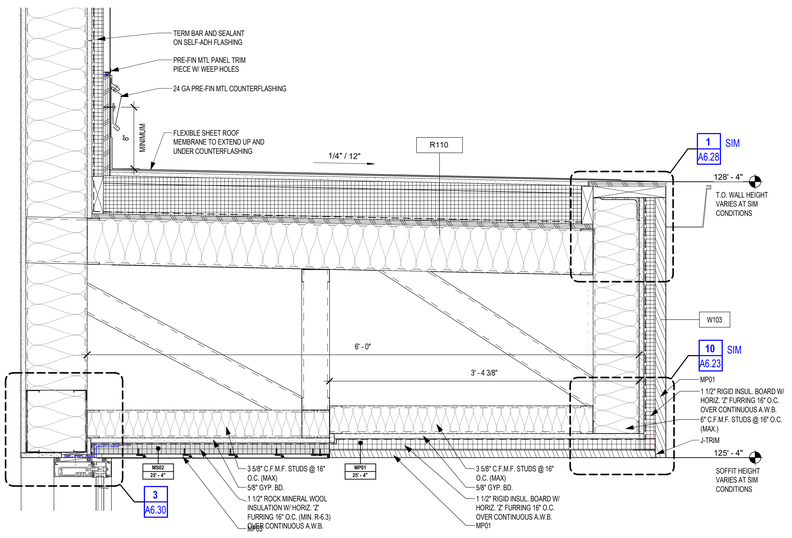
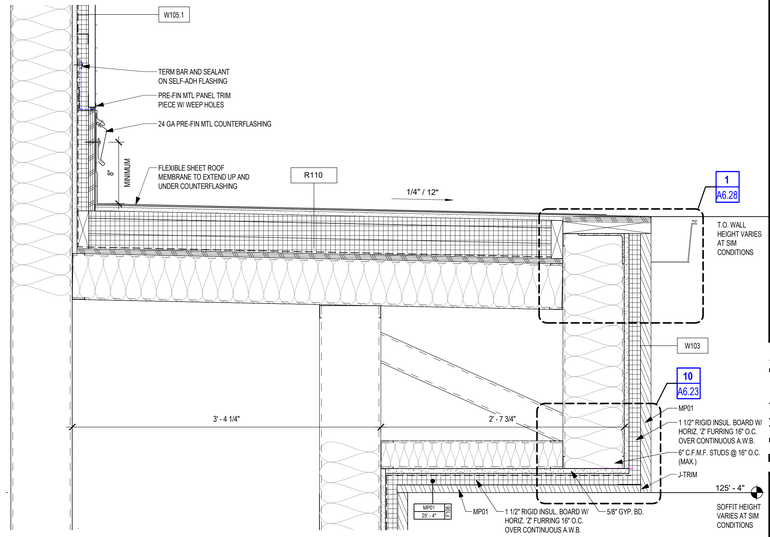


10 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A3.04



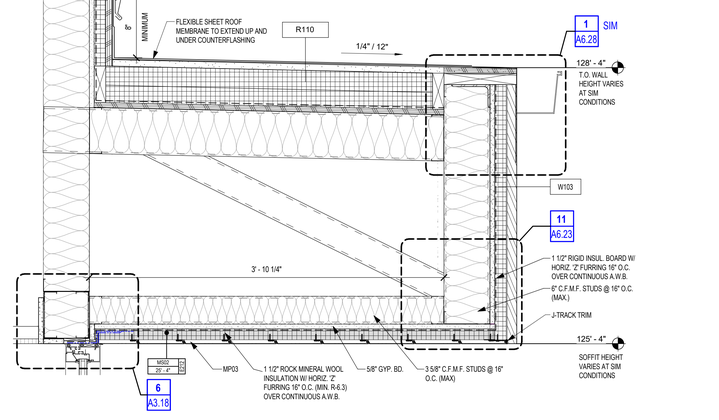
9 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.09



8 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.08

7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.05

6 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.07



5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.06

4 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.05

3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.11

2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.11

1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.08

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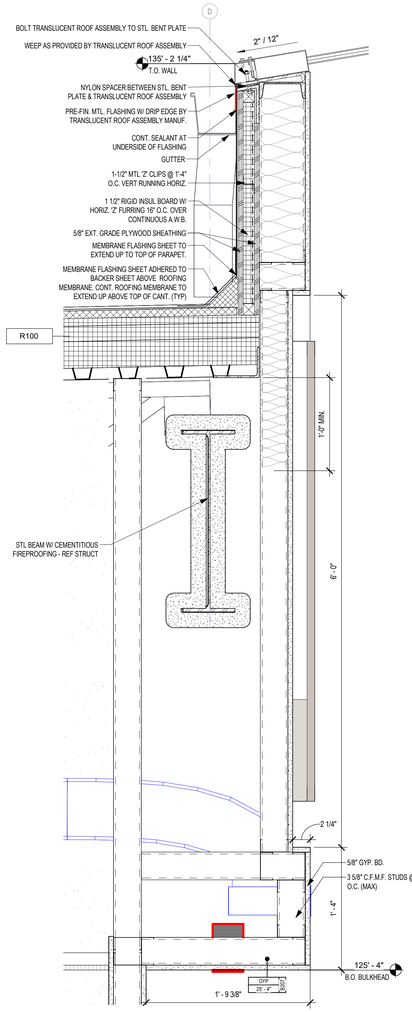
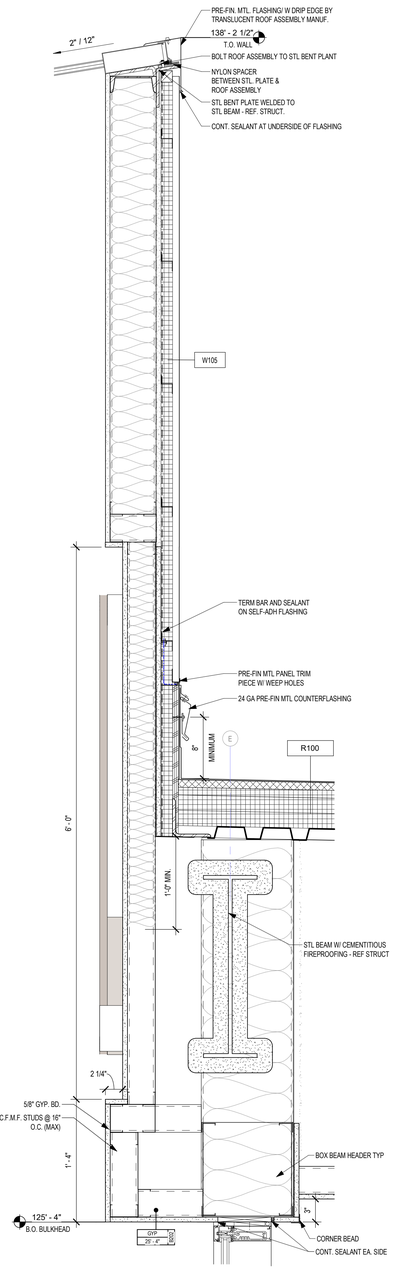
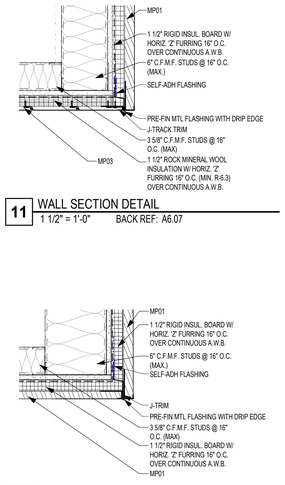


7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.14

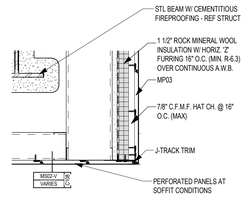


6 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A3.05

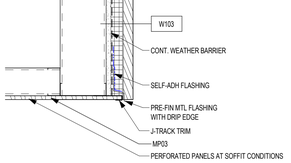


11 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.07

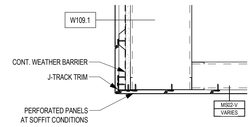
10 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.22



5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.12

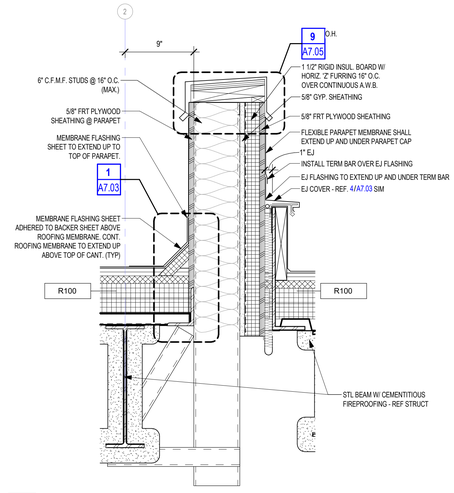


13 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.06

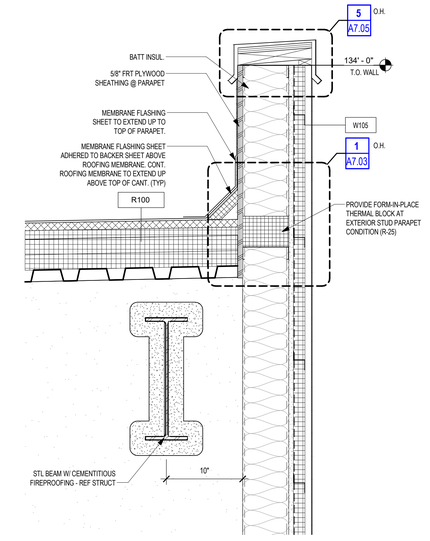


NOTE: W108 WALL ASSEMBLY WITH RIGID INSULATION AT SIM COND.

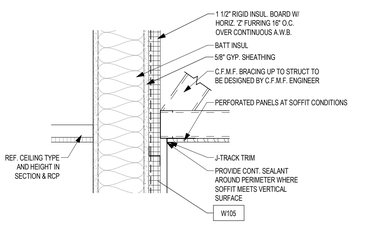
12 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.02



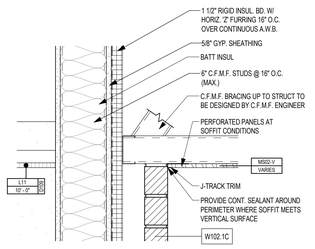
9 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.13



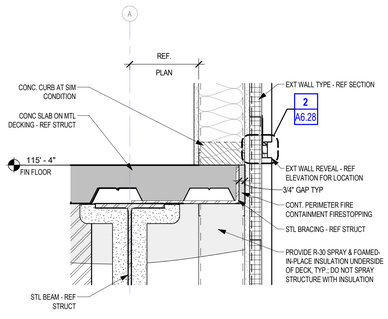
8 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.12



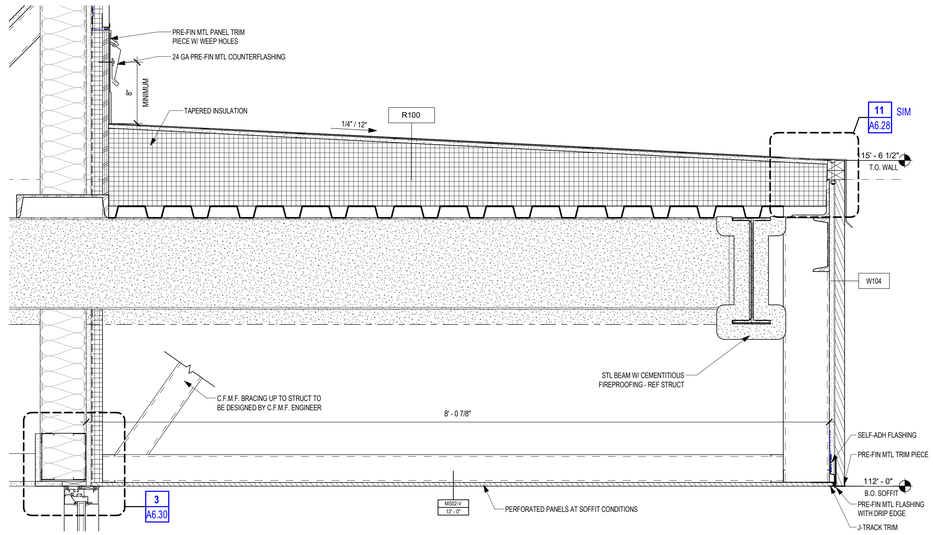
4 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04



3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.06



2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04



1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.08

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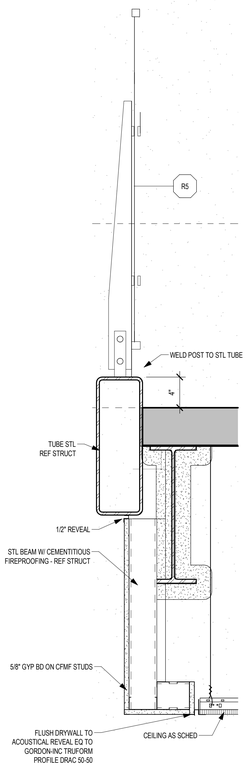
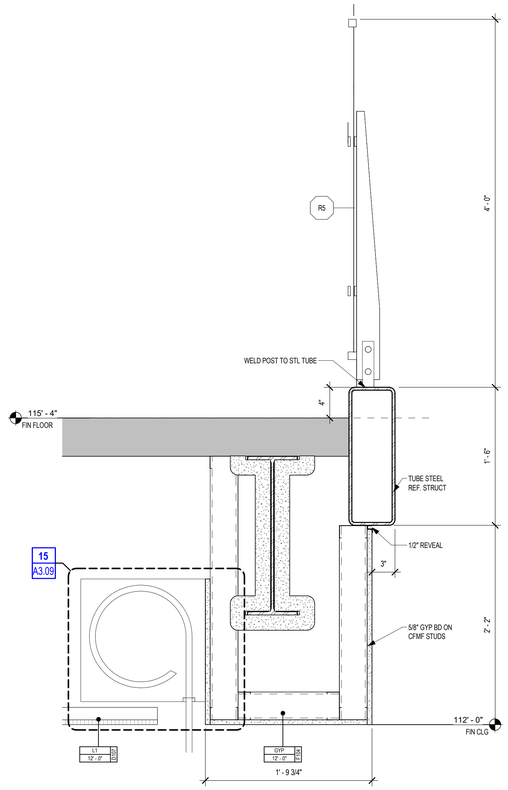
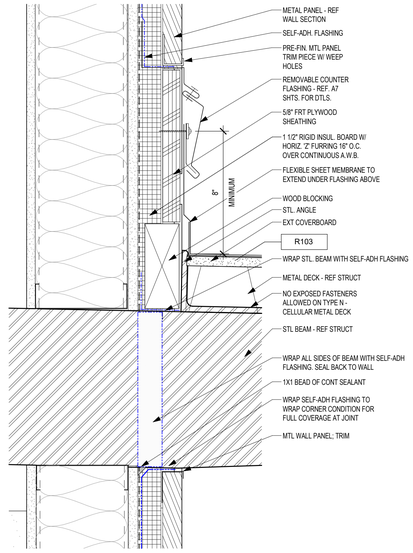


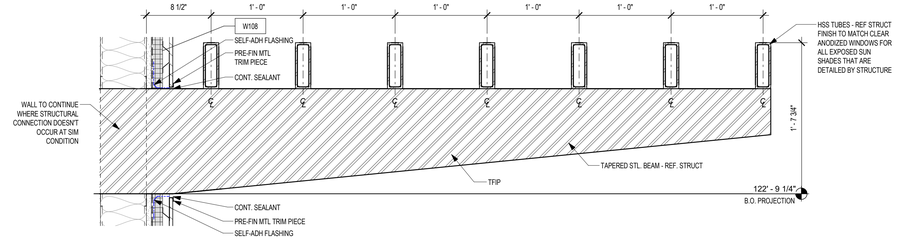
8 SECTION DETAIL AT BRIDGE BULKHEAD
1 1/2" = 1'-0" BACK REF: A1.2B



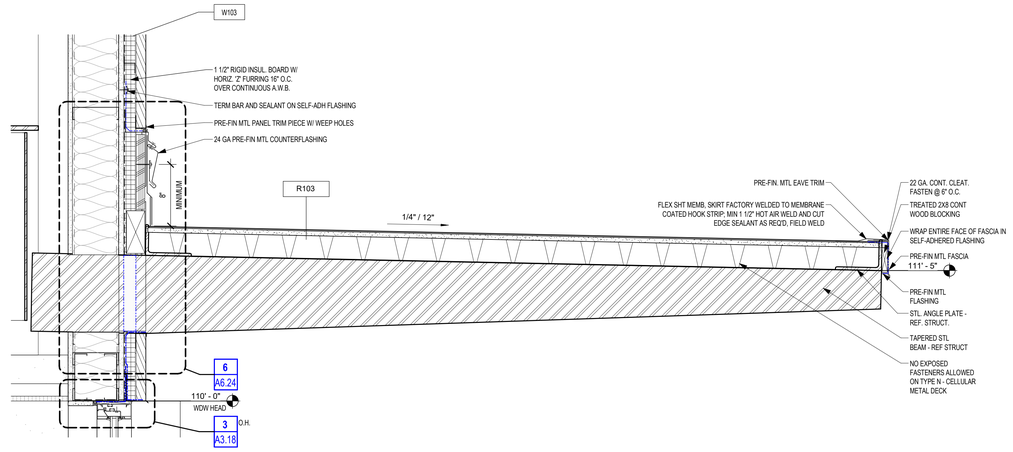
7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.13



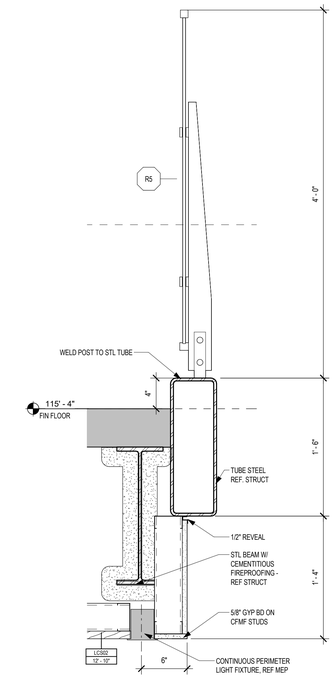
6 CANOPY CONNECTION DETAIL
3" = 1'-0" BACK REF: A6.24



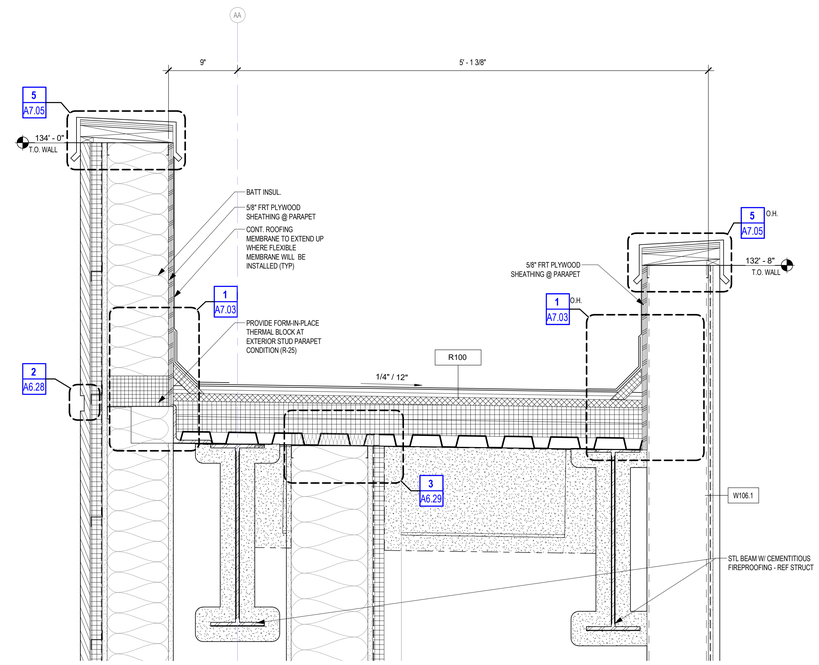
9 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.11



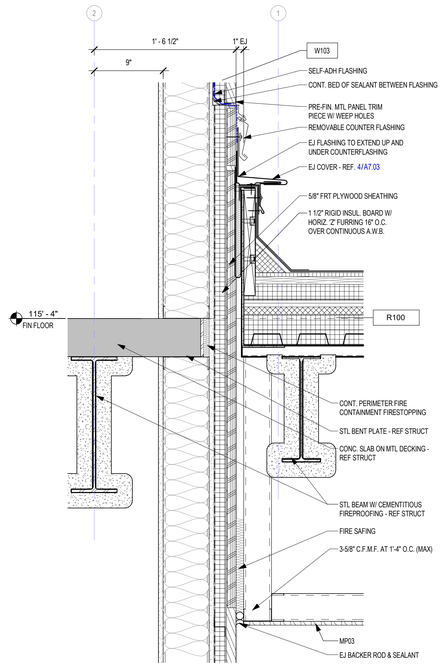
5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04



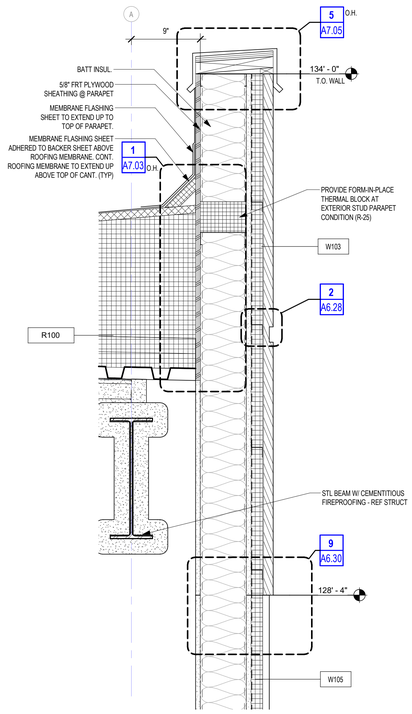
4 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A1.38



3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.03



2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.13



1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04

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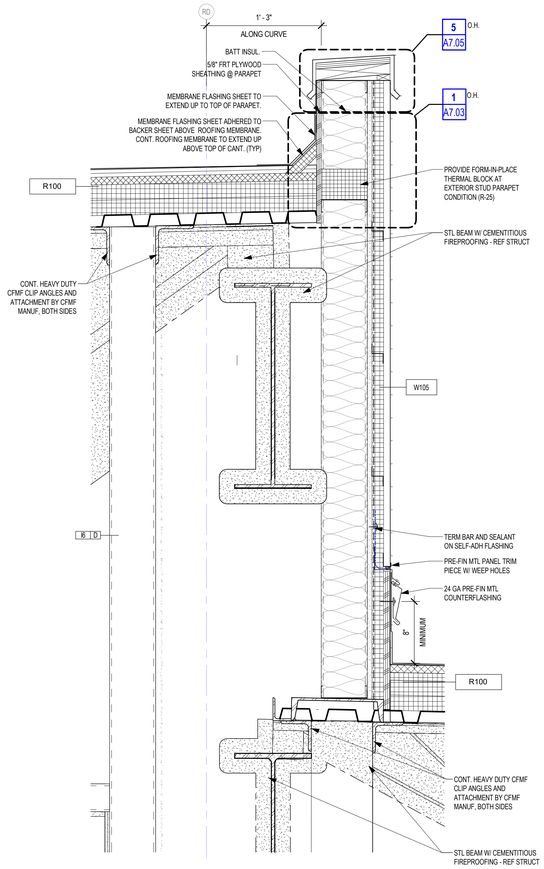

5 WALL SECTION DETAIL
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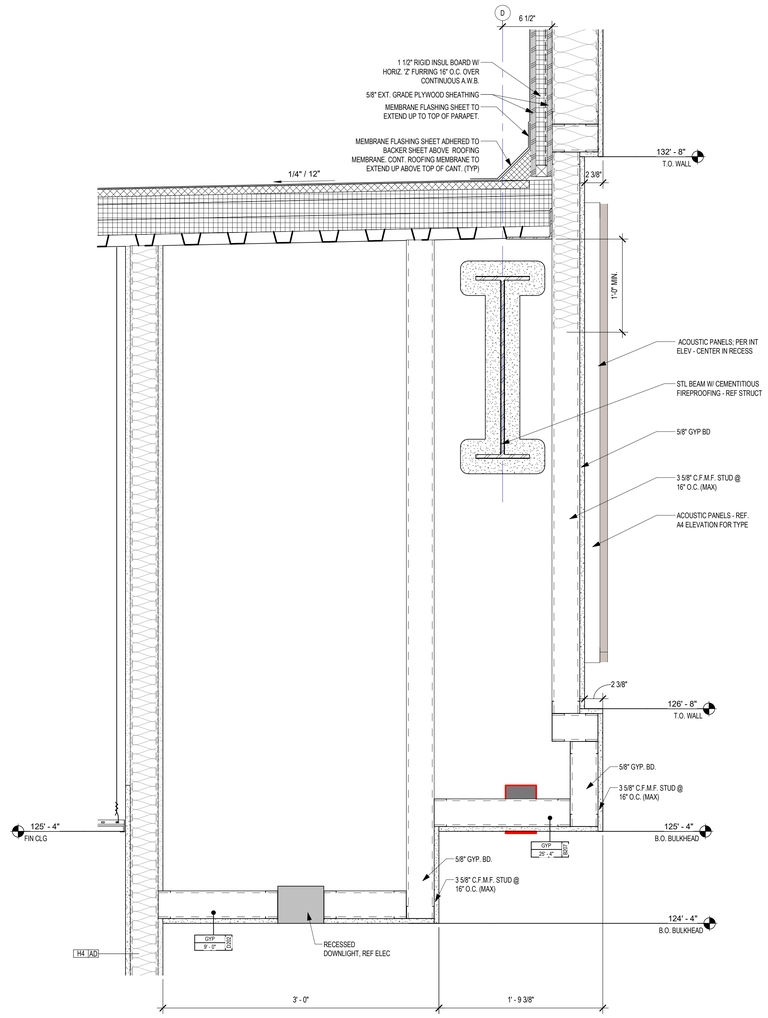
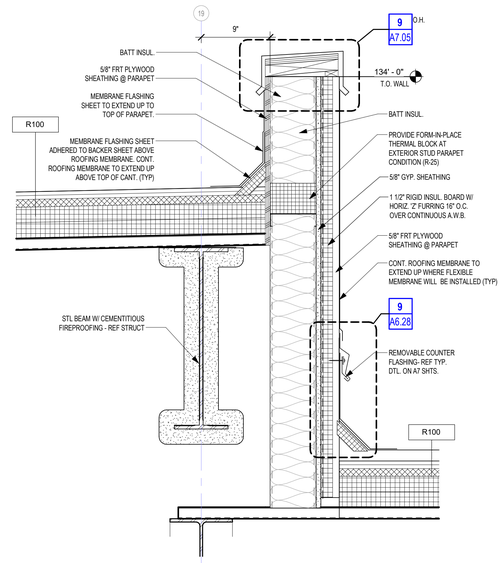
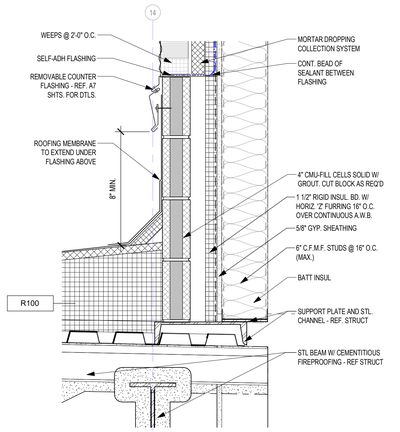


4 SECTION DETAIL - BULKHEAD AT ACOUSTIC PANEL RECESS
1 1/2" = 1'-0" BACK REF: A2.2B



3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A1.38



2 WALL SECTION DETAIL
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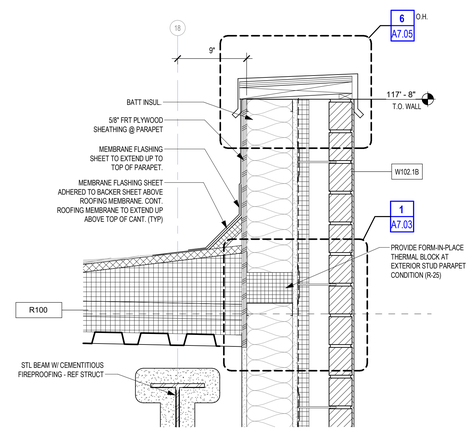

1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.11

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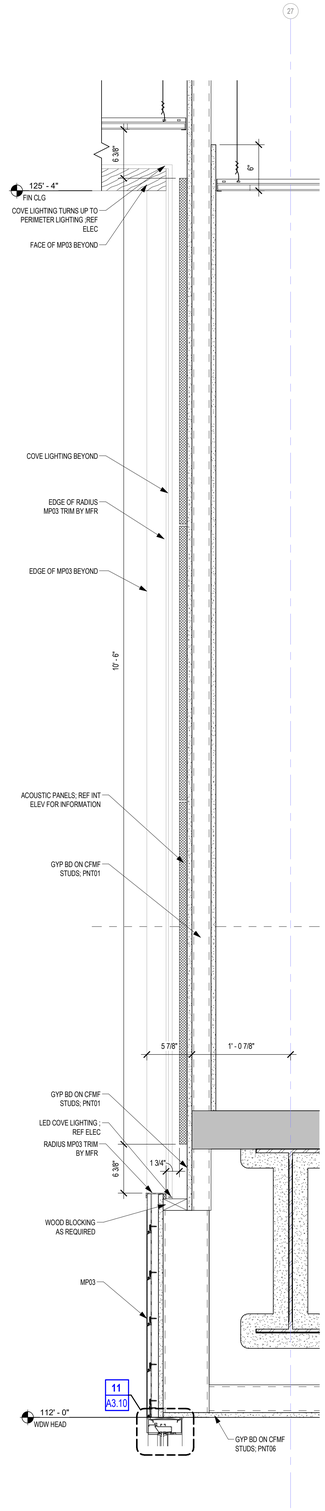
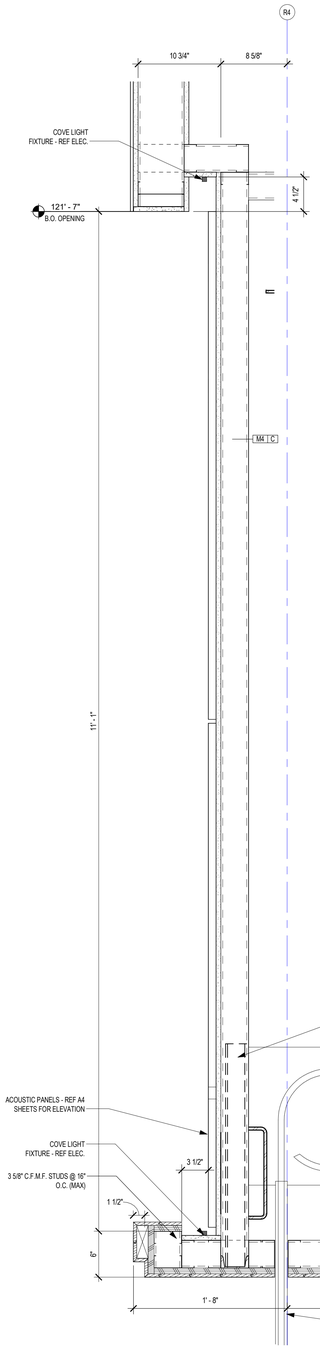
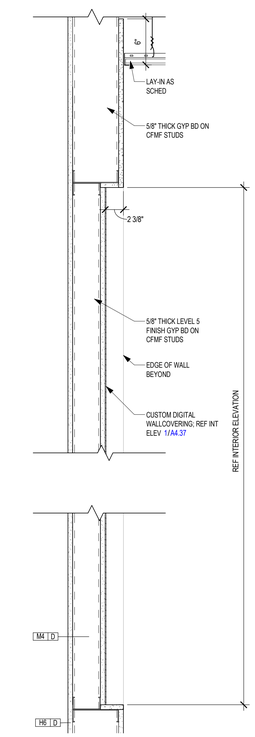


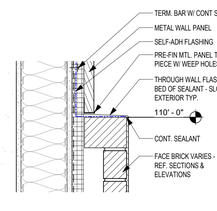
8 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A1.2B



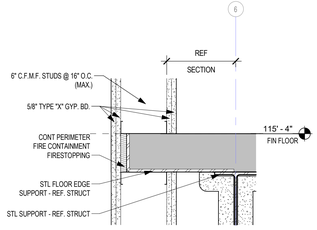
3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.09



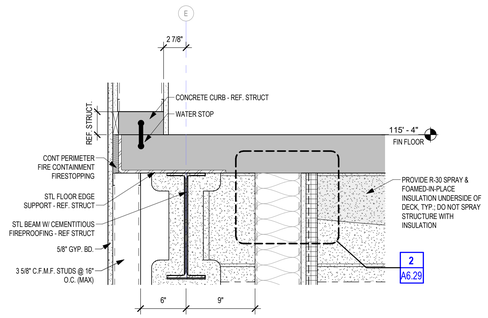
9 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A2.1F



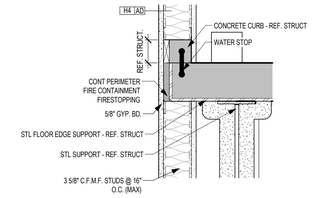
5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.04



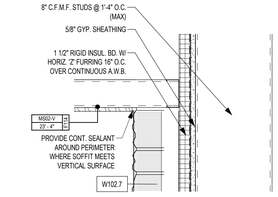
7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A1.36



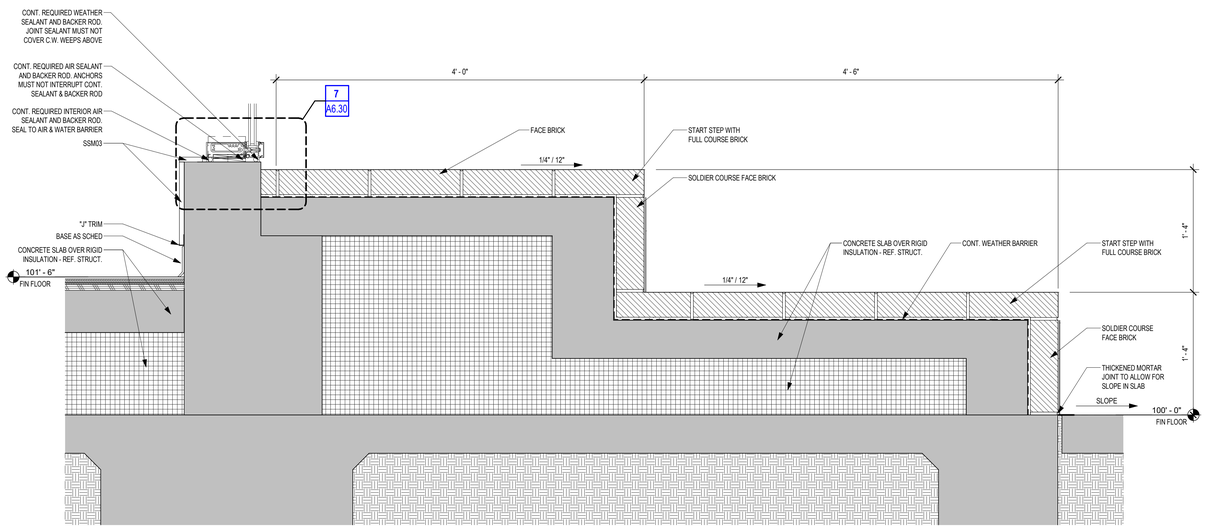
4 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.11



6 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.16



2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.15



1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A3.05

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TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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7/15/2026

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WALL SECTION DETAILS

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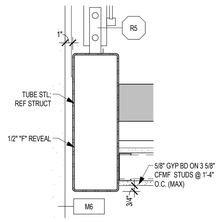
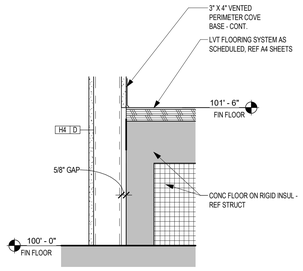
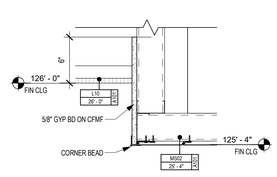


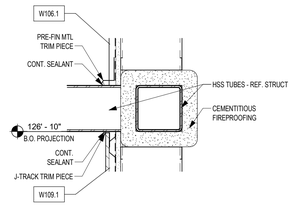
8 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.13



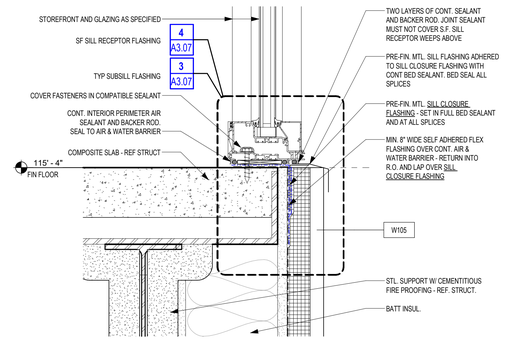
7 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.16



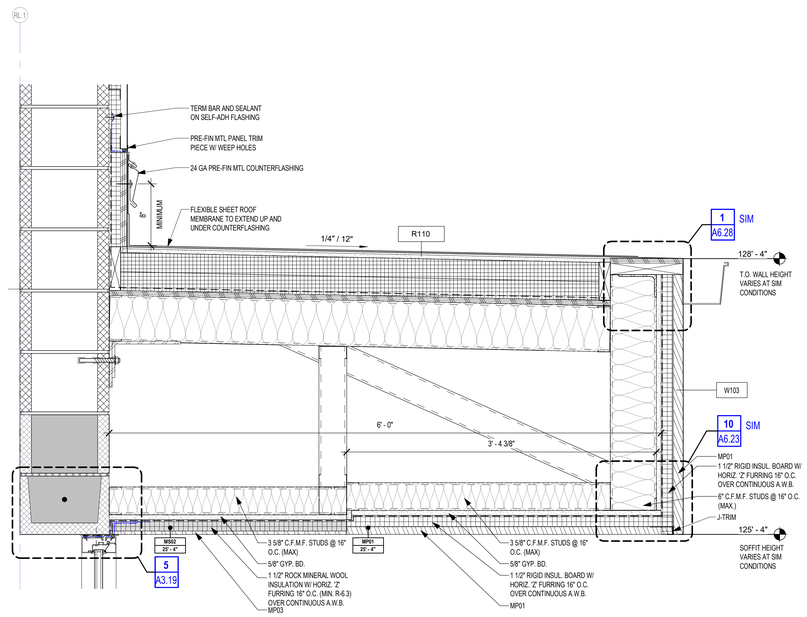
6 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.03



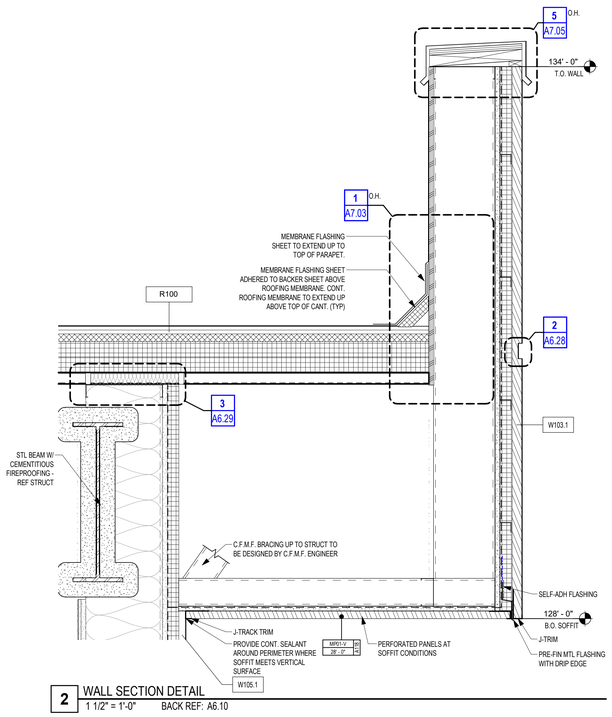
5 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.02



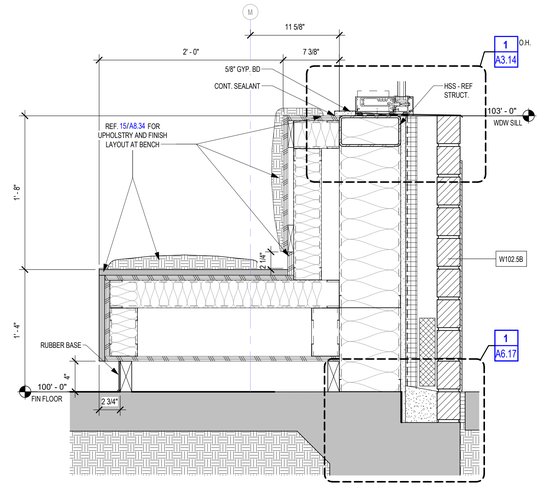
4 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A3.04



3 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.15



2 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.10



1 WALL SECTION DETAIL
1 1/2" = 1'-0" BACK REF: A6.15

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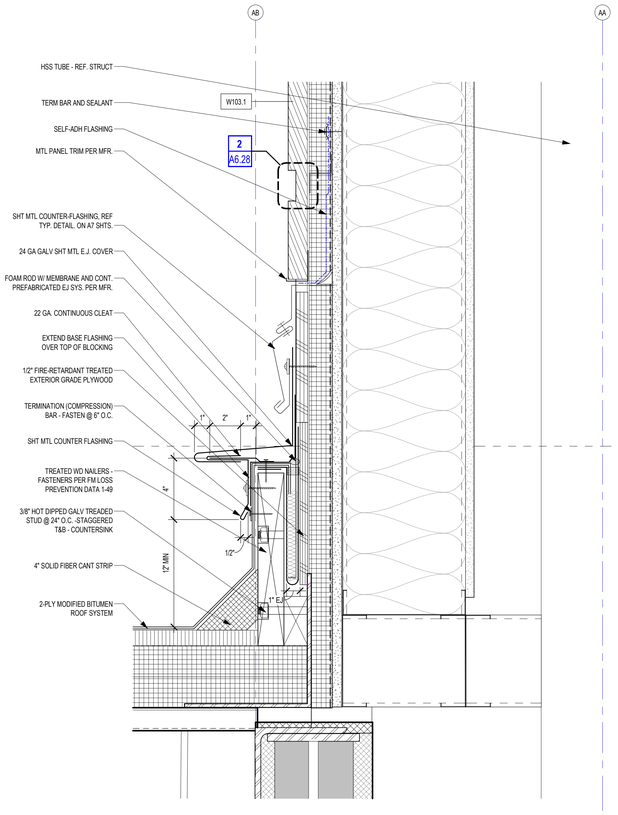
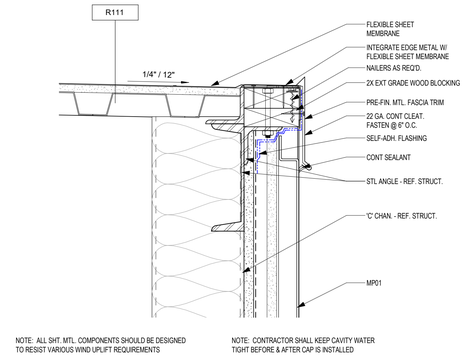


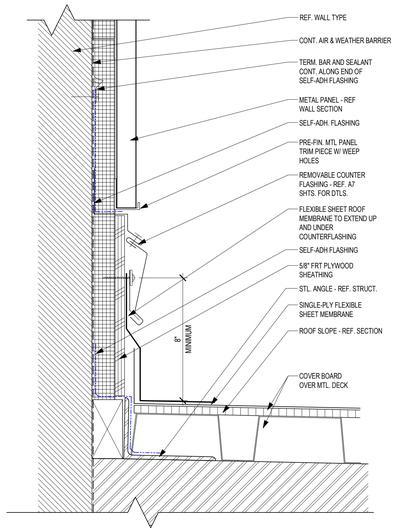
8 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.03



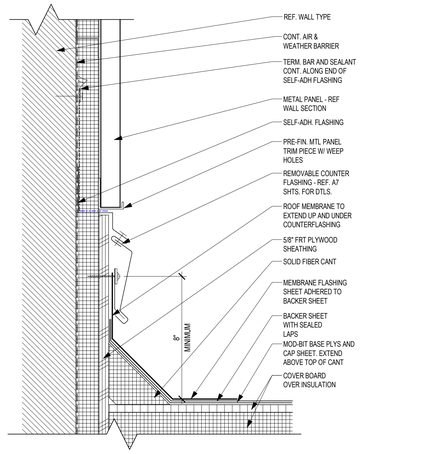
NOTE: ALL SHT. MTL. COMPONENTS SHOULD BE DESIGNED TO RESIST VARIOUS WIND UPLIFT REQUIREMENTS

NOTE: CONTRACTOR SHALL KEEP CAVITY WATER TIGHT BEFORE & AFTER CAP IS INSTALLED

11 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.21



10 WALL SECTION DETAIL
3" = 1'-0"

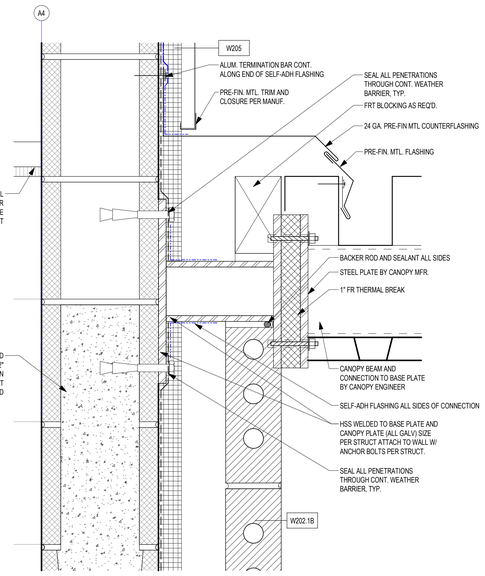


9 WALL SECTION DETAIL
3" = 1'-0"

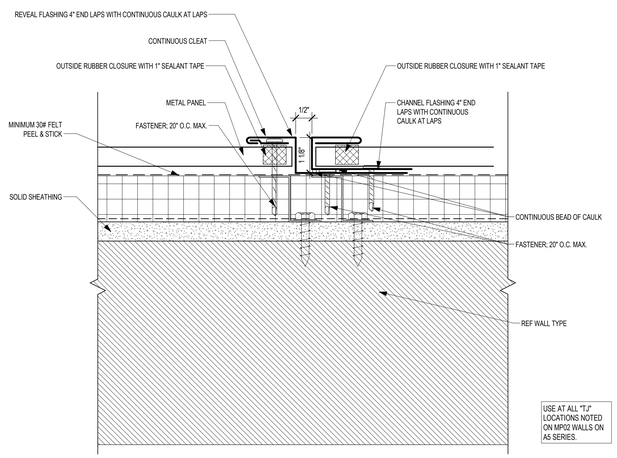
7 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.14

6 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.10

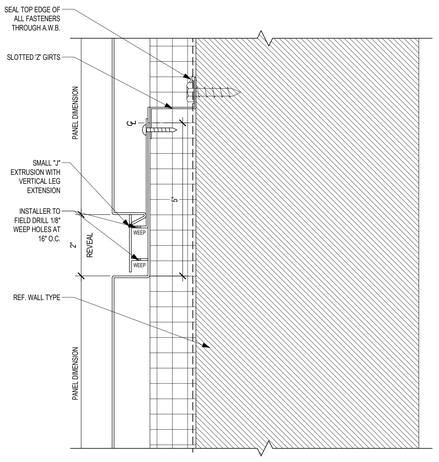
5 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A3.03



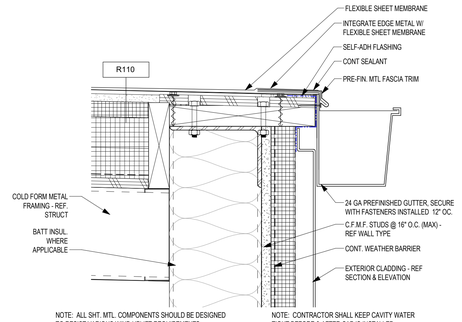
4 PRE-MANUFACTURED CANOPY CONNECTION DETAIL
3" = 1'-0" BACK REF: A6.10



3 METAL PANEL TRIM REVEAL
6" = 1'-0"



2 METAL PANEL REVEAL
6" = 1'-0"



NOTE: ALL SHT. MTL. COMPONENTS SHOULD BE DESIGNED TO RESIST VARIOUS WIND UPLIFT REQUIREMENTS

NOTE: CONTRACTOR SHALL KEEP CAVITY WATER TIGHT BEFORE & AFTER CAP IS INSTALLED

1 ROOF EDGE DETAIL
3" = 1'-0" BACK REF: A6.14

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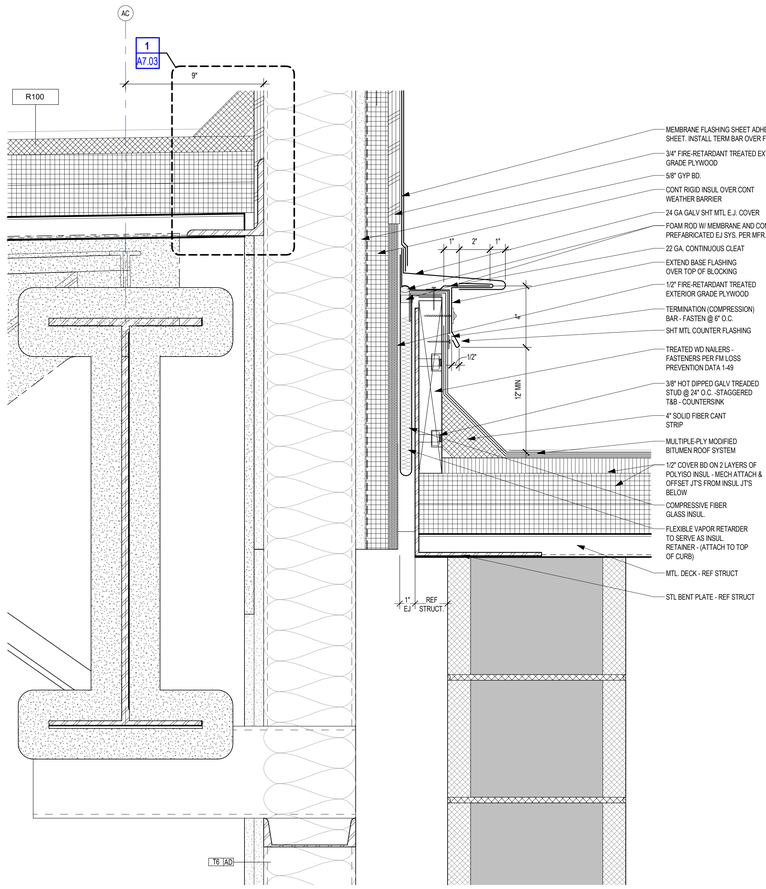
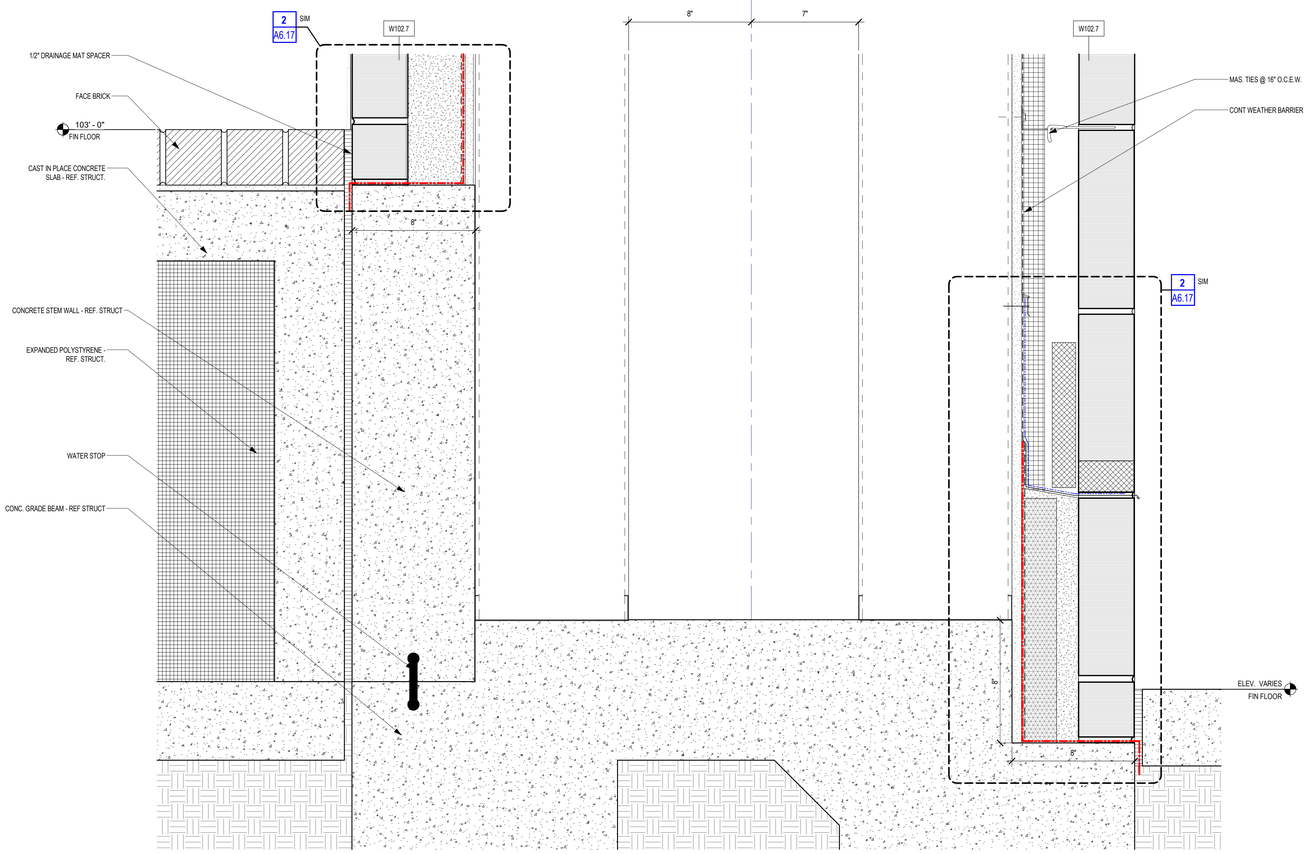
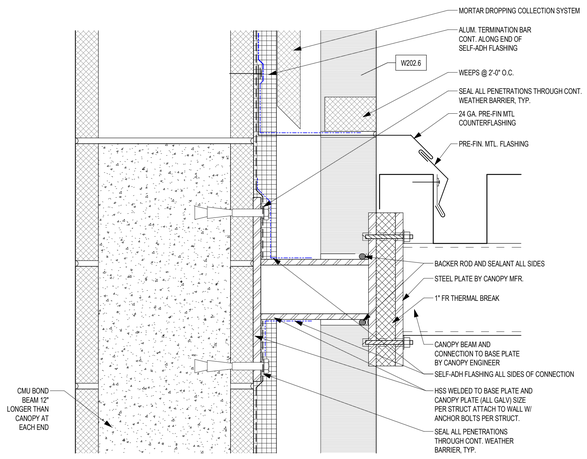


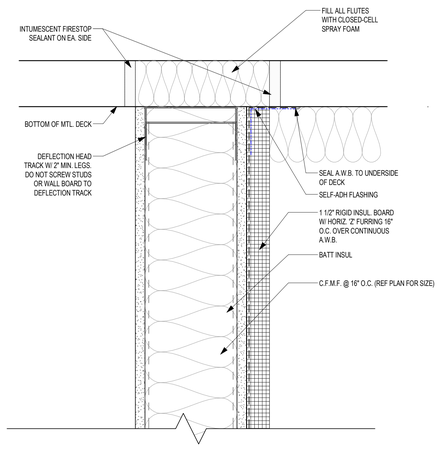
6 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.13



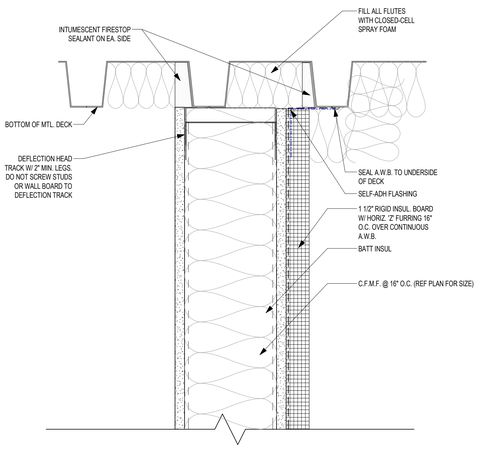
5 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.15



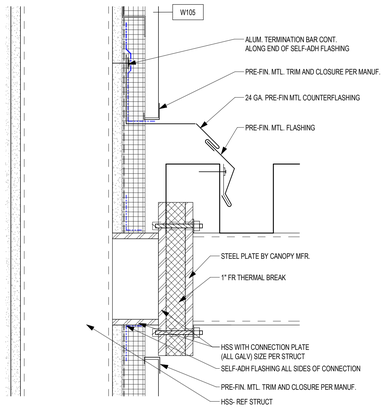
4 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.08



3 WALL TO ROOF DECK CONNECTION - PERPENDICULAR
3" = 1'-0"



2 WALL TO ROOF DECK CONNECTION - PARALLEL
3" = 1'-0"



1 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A1.34

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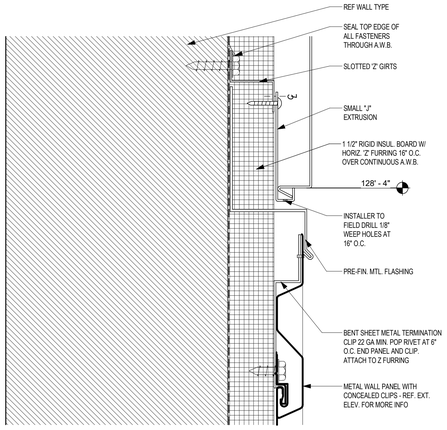
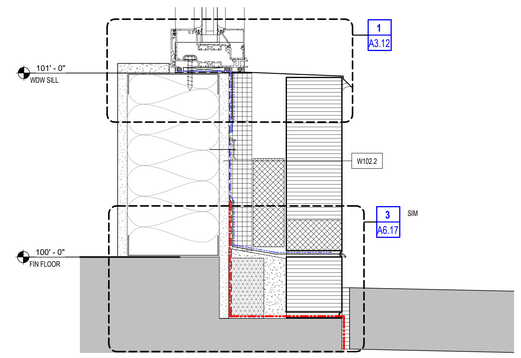
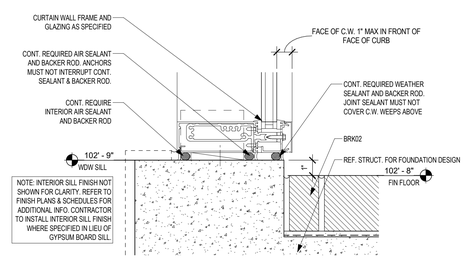


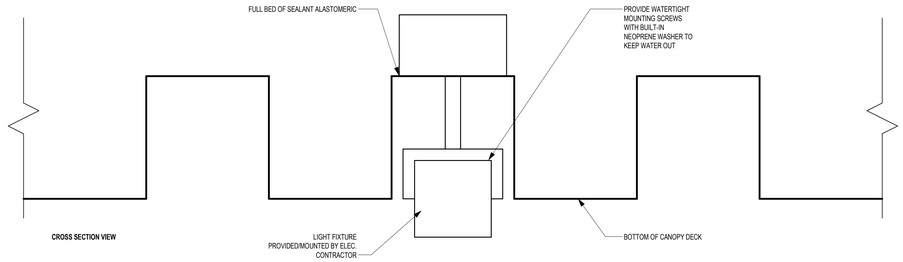
9 VERTICAL METAL PANEL TYPE TRANSITION
6" = 1'-0" BACK REF: A6.24



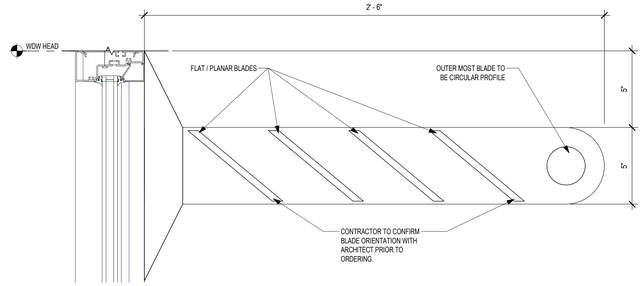
8 STOREFRONT SILL - MASONRY VENNER LEDGE
3" = 1'-0" BACK REF: A3.03



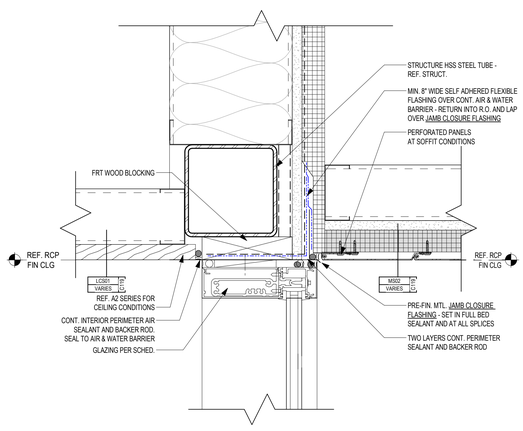
7 WALL SECTION DETAIL
3" = 1'-0" BACK REF: A6.26



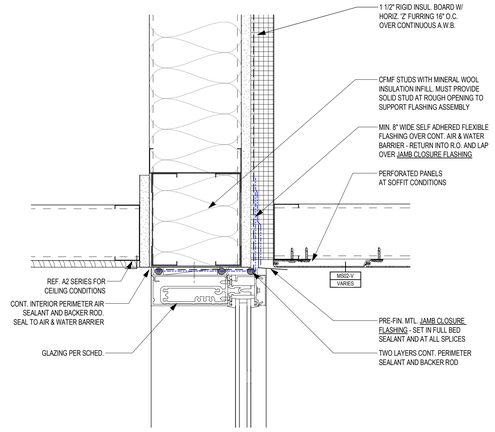
6 CANOPY SURFACE MOUNTED FIXTURE
3" = 1'-0"



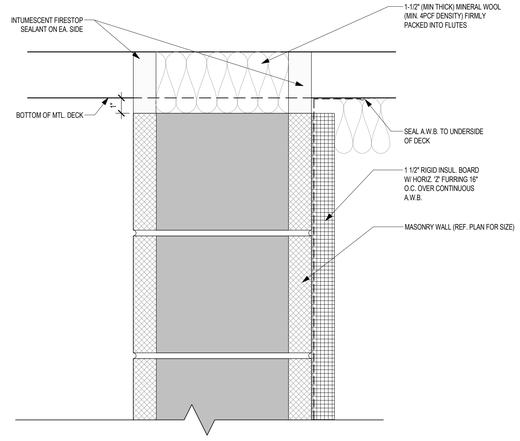
5 SUNSHADE SECTION
3" = 1'-0" BACK REF: A6.04



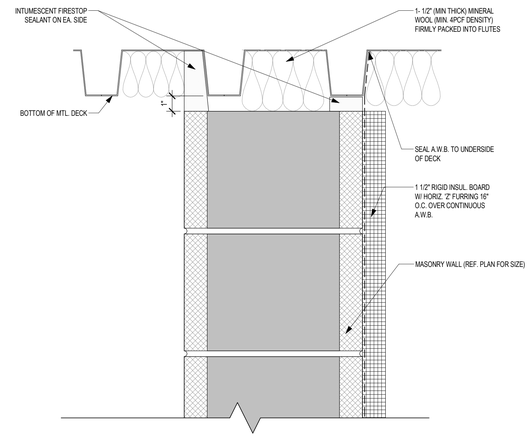
4 WALL SECTION DETAIL - CW HEAD DETAIL W/ STEEL TUBE
3" = 1'-0" BACK REF: A3.05



3 WALL SECTION DETAIL - CW HEAD DETAIL
3" = 1'-0" BACK REF: A3.03



2 WALL TO ROOF DECK CONNECTION - PERPENDICULAR
3" = 1'-0"



1 WALL TO ROOF DECK CONNECTION - PARALLEL
3" = 1'-0"

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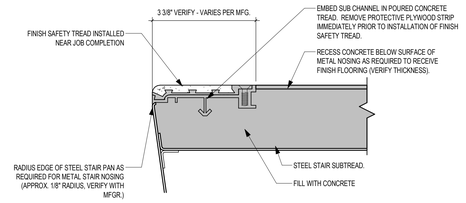
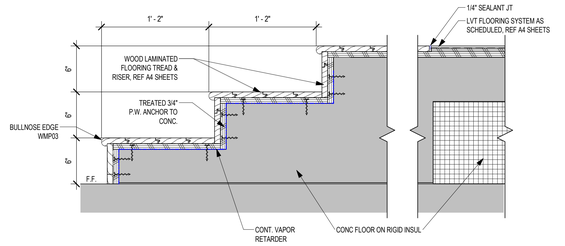
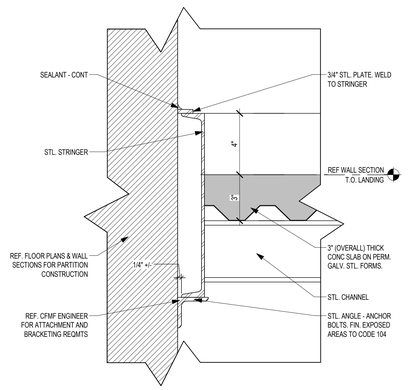


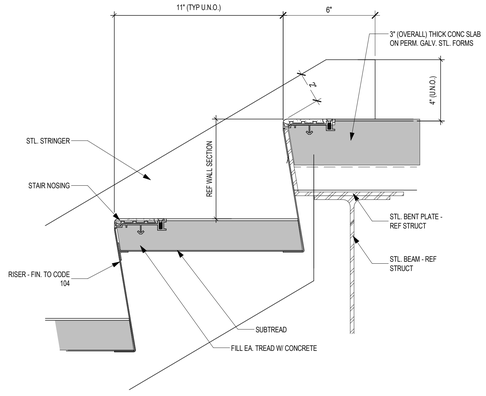
11 TYPICAL STAIR NOSING DETAIL
6" = 1'-0"



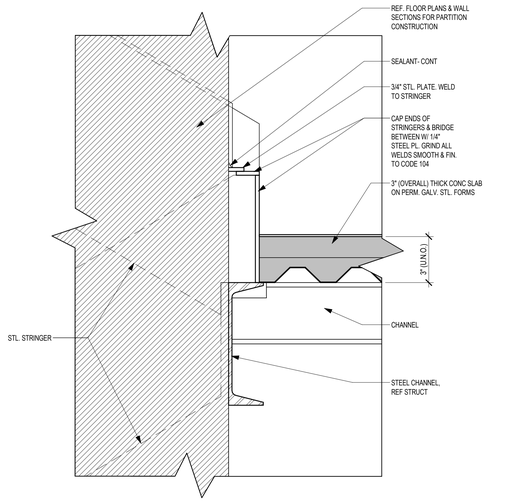
10 WOOD PLANK PLATFORM STEPS TO LVT FLOORING
1 1/2" = 1'-0"



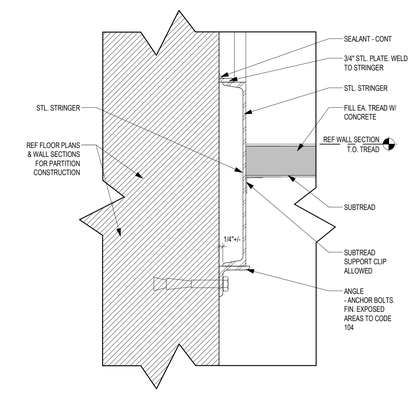
9 TYPICAL STAIR LANDING DETAIL
3" = 1'-0"



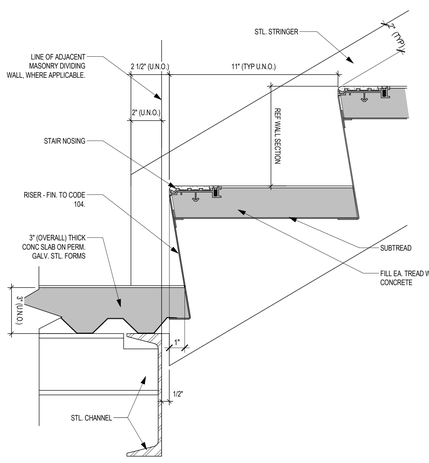
8 TYPICAL EGRESS STAIR RISER AND TREAD DETAIL
3" = 1'-0"



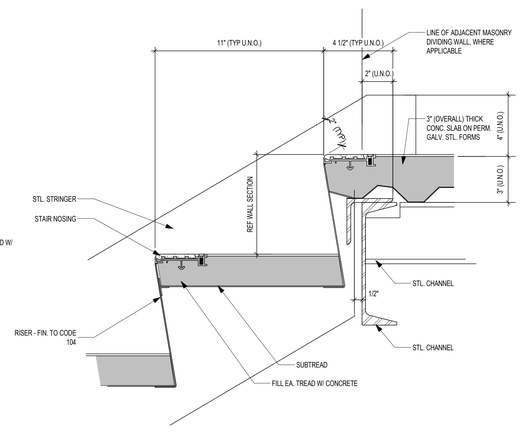
7 TYPICAL LANDING BETWEEN RUNS W/ MASONRY WALL
3" = 1'-0"



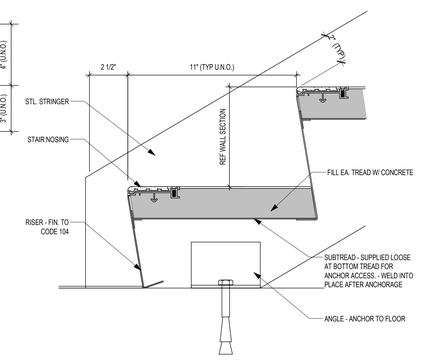
6 TYPICAL STAIR STRINGER DETAIL
3" = 1'-0"



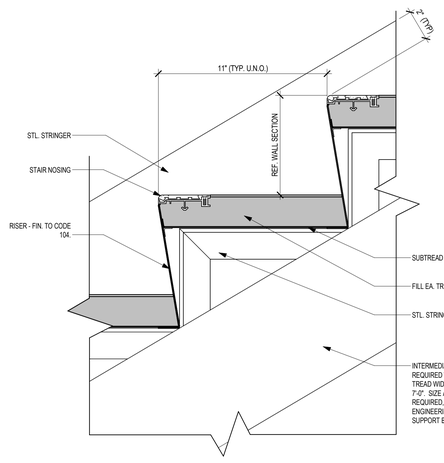
5 TYPICAL RISER UP @ LANDING
3" = 1'-0"



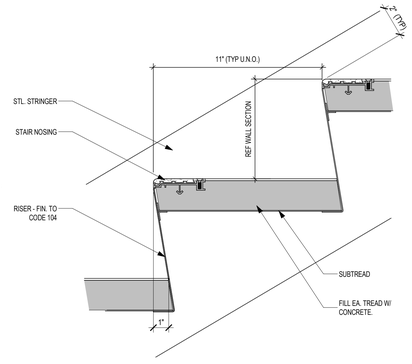
4 TYPICAL RISER DOWN @ LANDING
3" = 1'-0"



3 TYPICAL BOTTOM RISER AND TREAD DETAIL
3" = 1'-0"



2 TYPICAL RISER AND TREAD DETAIL @ INTERMEDIATE STRINGER
3" = 1'-0"



1 TYPICAL RISER AND TREAD DETAIL
3" = 1'-0"

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Project:
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FOR
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WALL SECTIONS - STAIR DETAILS

VOLUME 01

Job No.	Sheet No.
0/2602-04-01	A6.31
Drawn By: MF	
Date: 07.15.26	

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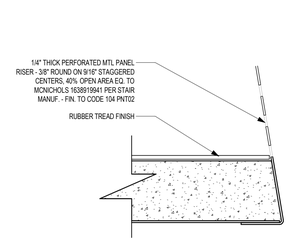
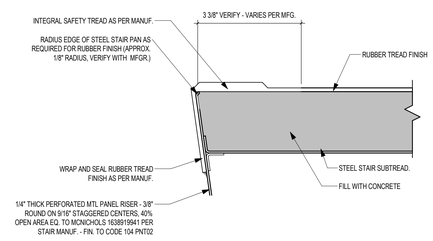
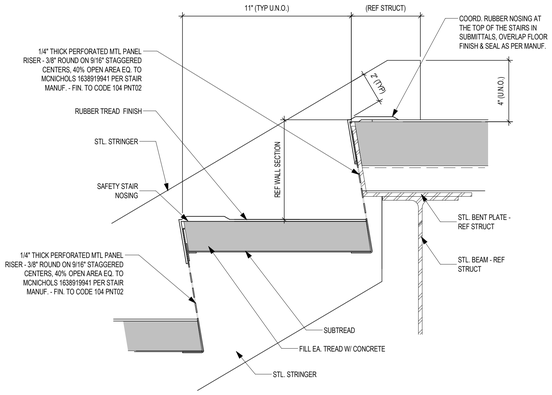


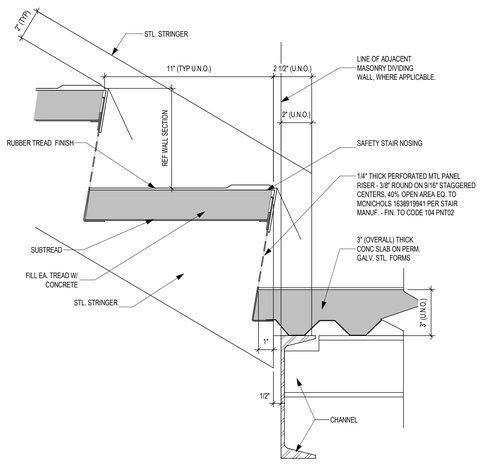
7 TYPICAL EGRESS RISER STAIR DETAIL - PERFORATED RISER
6" = 1'-0"



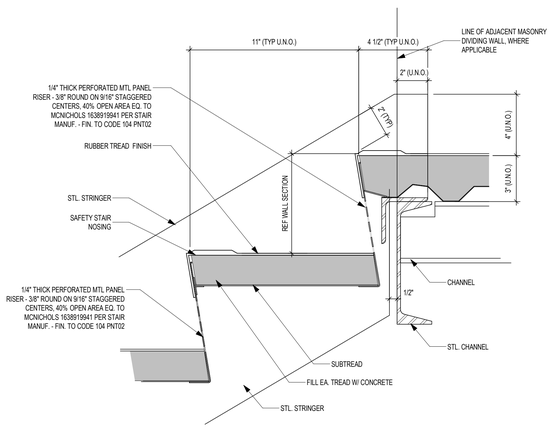
6 TYPICAL STAIR NOSING DETAIL - PERFORATED RISER
6" = 1'-0"



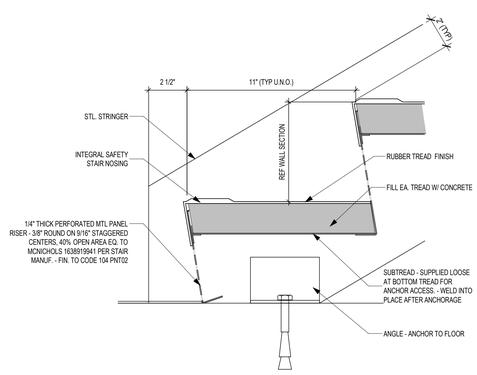
5 TYPICAL EGRESS STAIR RISER AND TREAD DETAIL - PERFORATED RISER
3" = 1'-0"



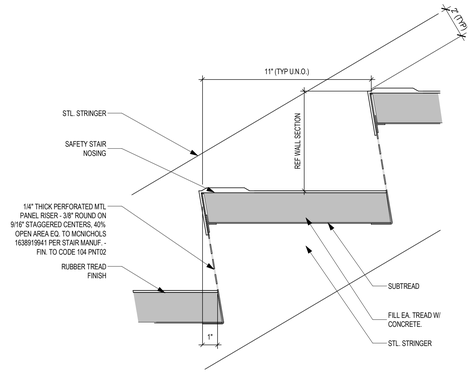
4 TYPICAL RISER UP @ LANDING - PERFORATED RISER
3" = 1'-0"



3 TYPICAL RISER DOWN @ LANDING - PERFORATED RISER
3" = 1'-0"



2 TYPICAL BOTTOM RISER AND TREAD DETAIL - PERFORATED RISER
3" = 1'-0"



1 TYPICAL RISER AND TREAD DETAIL - PERFORATED RISER
3" = 1'-0"

Project:
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WALL SECTIONS - STAIR DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A6.32
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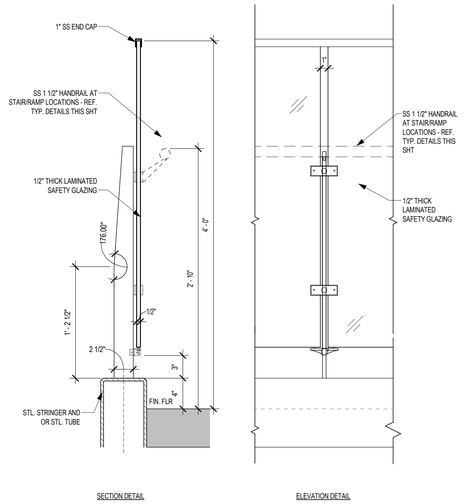
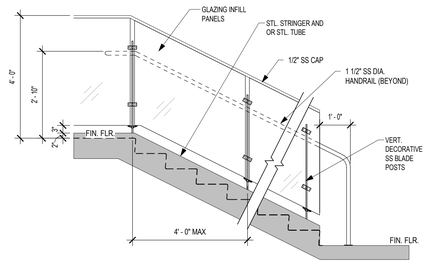
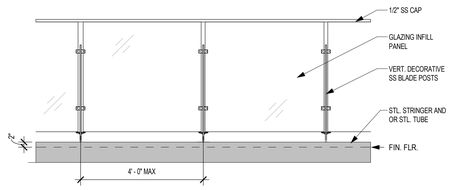


12 RAIL SECTION & ELEVATION
1 1/2" = 1'-0"

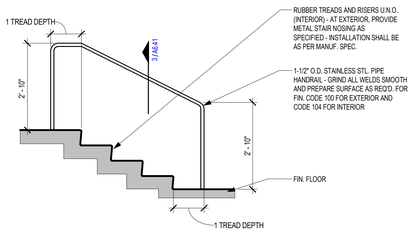


11 RAIL ELEVATION
1/2" = 1'-0"



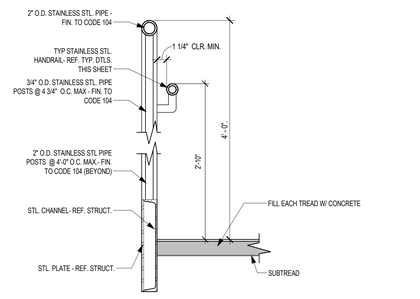
10 RAIL ELEVATION
1/2" = 1'-0"

RAIL TYPE 'R5'

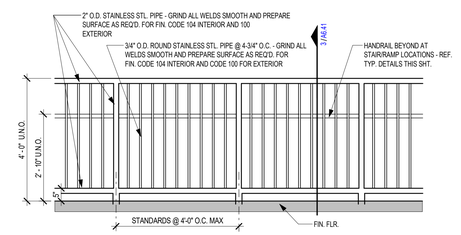


13 RAIL ELEVATION
1/2" = 1'-0"

RAIL TYPE 'R6'

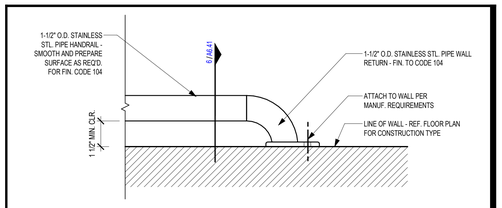


9 RAIL SECTION
1 1/2" = 1'-0"

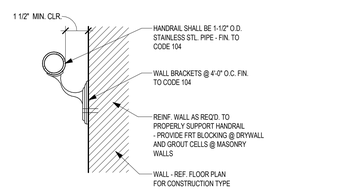


8 RAIL ELEVATION
1/2" = 1'-0"

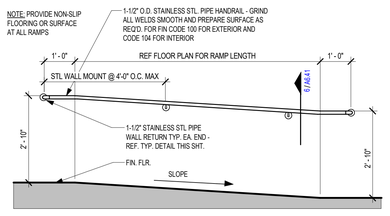
RAIL TYPE 'R3'



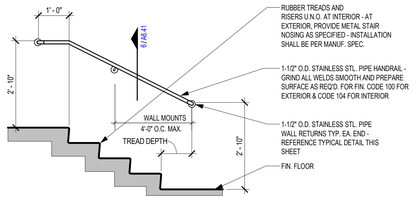
7 RAIL WALL RETURN DETAIL
3" = 1'-0"



6 RAIL SECTION
3" = 1'-0"

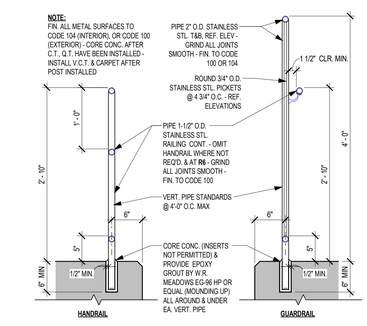


5 RAIL ELEVATION
1/2" = 1'-0"

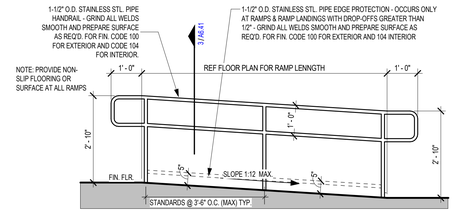


4 RAIL ELEVATION
1/2" = 1'-0"

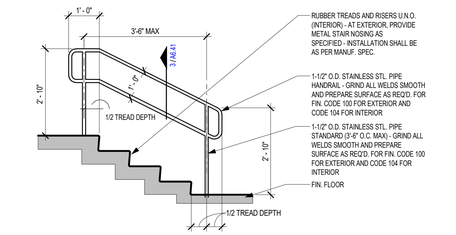
RAIL TYPE 'R2'



3 RAIL SECTION
1" = 1'-0"



2 RAIL ELEVATION
1/2" = 1'-0"



1 RAIL ELEVATION
1/2" = 1'-0"

RAIL TYPE 'R1'

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RAILING TYPES AND DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A6.41
Drawn By: ME	
Date: 07.15.26	

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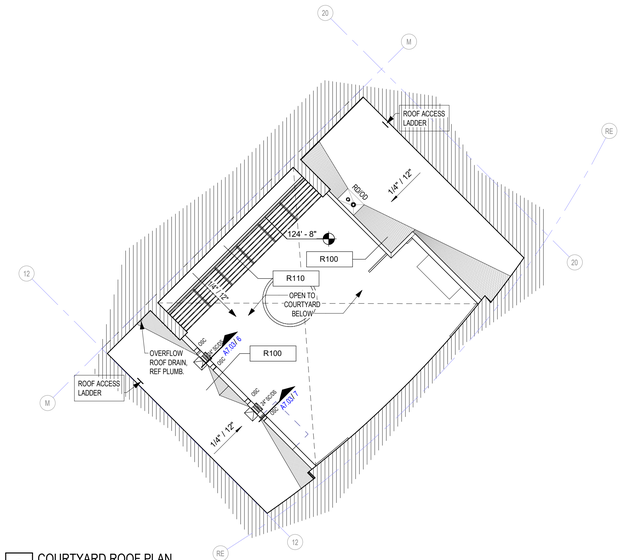

2 COURTYARD ROOF PLAN
1/16" = 1'-0"

1 MASTER ROOF PLAN
1/16" = 1'-0"

PLAN N

ROOF TYPE LEGEND

ROOF TYPE TAGS

R100 — ROOF ASSEMBLY IN SECTION VIEW

LETTER INDICATES TYPE

NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

R100 - MOD-BIT, INSUL., MTL. DECK
R103 - SINGLE PLY, CELLULAR MTL. DECK
R110 - SINGLE PLY, CPMF
R111 - SINGLE PLY, MTL. DECK

TYPICAL ROOF NOTES

1. PROVIDE AND INSTALL **2-PLY MODIFIED BITUMEN** ROOFING SYSTEM WITH RIGID INSULATION AS SPECIFIED. REFER TO SPECIFICATIONS FOR ATTACHMENT REQUIREMENTS FOR ROOF INSULATION BOARD. REFER TO SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR DESCRIPTION OF UNDERLYING STEEL DECK.
2. PROVIDE TAPERED INSULATION AS SHOWN ON THE DRAWINGS. TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE 1/4" PER FOOT MIN SLOPE IN ANY ROOF PLANE & 1/4" PER FOOT MIN SLOPE DOWN VALLEYS TOWARD ROOF DRAINS.
3. EXPANSION JOINT COVERS SHALL BE AS SHOWN ON TYPICAL ROOF DETAILS. EXPANSION JOINT COVERS SHALL BE INSTALLED WHERE INDICATED ON PLANS AND IN FULL ACCORDANCE WITH CONVENTIONAL ROOFING AND SHEET METAL PRACTICES. ALL EXPANSION JOINT COVERS AND END CLOSURES AT **2-PLY MODIFIED BITUMEN** ROOF SHALL BE 24 GA. G.I. (REFER TO EXPANSION JOINT DETAILS AND ROOFING PLAN FOR LOCATION).
4. REF. TO PLUMBING DRAWINGS FOR ROOF DRAIN SIZING & LEADER INFORMATION. INSULATE THE EXPOSED ROOF DRAIN PIPING AND ROOF DRAIN BODY IN THE PLENUM. TURN DOWNSPOUTS INSIDE CHASE & OUT ON TO CONCRETE WALK OR SPLASHBLOCK (REF. TYP. DTL.) USE BRASS NOZZLES WHERE EMPTYING ONTO CONCRETE MOWSTRIP OR SPLASH BLOCK. IF ROOF DRAINS CONFLICT WITH STRUCTURAL, MOVE AS DIRECTED, BUT MAKE ALL WALL PENETRATIONS AS SHOWN. REFER TO PLUMBING SHTS. FOR UNDERGROUND PIPING.
5. ROOFING CONTRACTOR SHALL PROVIDE & INSTALL ALL FLASHINGS, COUNTERFLASHINGS, EXPANSION JOINT COVERS, & GUTTERS. ROOFING CONTRACTOR SHALL INSTALL ROOF DRAINS AND FLASHINGS & COUNTER FLASHING CALLED FOR ON ALL MECHANICAL EQUIPMENT. ALL ROOF FLASHINGS AND COUNTERFLASHINGS SHALL BE LIQUID-APPLIED REINFORCED FLASHING SYSTEM WHEN CONCEALED FROM VIEW AND MIN. 24 GA. PRE-FINISHED GALV. METAL WHEN EXPOSED TO VIEW. SCUPPERS SHALL BE PRE-FINISHED GALV. METAL.
6. SEE MECHANICAL AND ELECTRICAL SHEETS FOR VENTS, GAS LINES, A/C UNITS, EXHAUST FANS, ETC.
7. REFER TO STRUCTURAL DRAWINGS FOR ROOF MOUNTING FRAME SUPPORT DETAILS.
8. GENERAL CONTRACTOR SHALL COORDINATE ROOFING, PLUMBING, AND MECHANICAL CONTRACTOR ON ALL WORK.
9. COUNTERFLASHINGS SHALL BE MIN. 24 GA. G.I. WHERE **2-PLY MODIFIED BITUMEN** ROOF SLOPES AT WALL LINE. UNIFORMLY STEP FLASHINGS AS DIRECTED BY ARCHITECT AND LAP JOINTS 3" MINIMUM IN A WATERTIGHT CONDITION.
10. ALL WOOD MATERIALS INCLUDED IN THE ROOF OR PARAPET ASSEMBLY, INCLUDING, BUT NOT LIMITED TO, CURBS, BLOCKING, AND NAILERS SHALL BE FIRE-RETARDANT-TREATED AS SPECIFIED.
11. WOOD NAILER FASTENING: FASTENER PER FACTORY MUTUAL SYSTEM LOSS PREVENTION DATA 1-49.
12. WOOD BLOCKING TO METAL DECK: ATTACH NAILER TO THE METAL DECK WITH TWO ROWS OF NO. 10 GALVANIZED STEEL METAL SCREWS AT 24" O.C. PROVIDE A GALVANIZED STEEL WASHER (5/8" O.D.) AT EACH SCREW. TOP NAILER PLATE SHALL BE FASTENED TO BOTTOM NAILER PLATE WITH NAILS LONG ENOUGH TO PENETRATE 1 1/4" INTO BOTTOM NAILER AND SPACED 24" STAGGERED IN TWO ROWS. SPACING SHALL NOT EXCEED 12" FOR A MINIMUM OF 8' -0" EACH WAY FROM AN OUTSIDE CORNER. WITHDRAWAL RESISTANCE SHALL BE 100 LBS. PER NAIL MINIMUM.
13. ALL CURBS (FOR MECHANICAL EQUIPMENT, EXPANSION JOINTS, ETC.) SHALL PROVIDE A MINIMUM OF 8" FLASHING HEIGHT ABOVE FINISH ROOF LEVEL AT ALL CONDITIONS, INCLUDING ABOVE CRICKETS.
14. ALL WORK SHALL BE COMPLETED SO AS TO PRODUCE A 100 PERCENT WATERTIGHT CONDITION FOR THE LIFE OF THE ROOF WARRANTY.

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ROOF PLAN

VOLUME 01

Job No. 002602-04-01	Sheet No. A7.01
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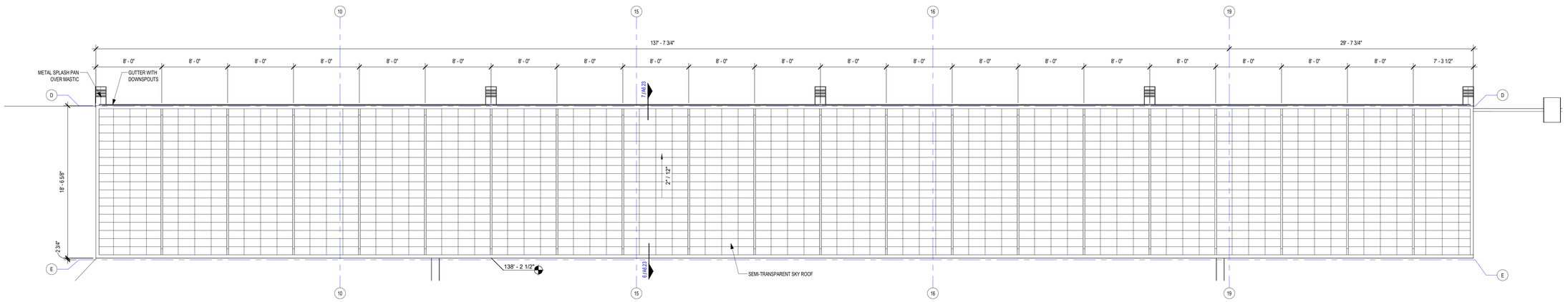

1 FLOOR PLAN - MAIN CLERESTORY
3/16" = 1'-0"

PLAN
N
TRUE

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ENLARGED PLAN - SKYLIGHT

VOLUME 01

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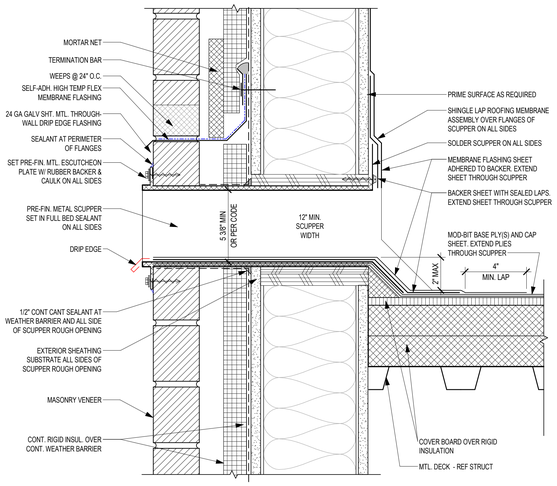
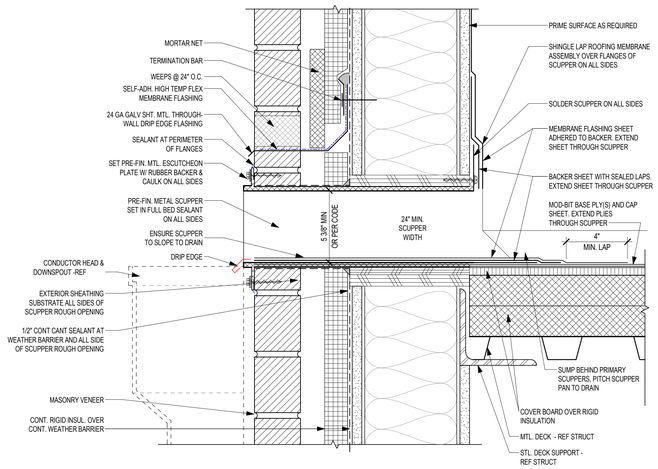
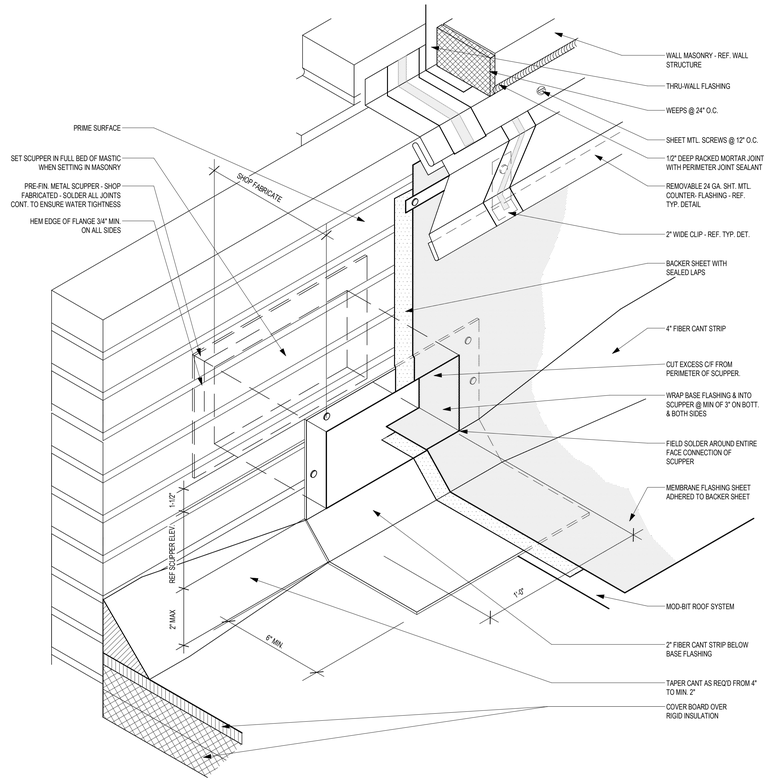


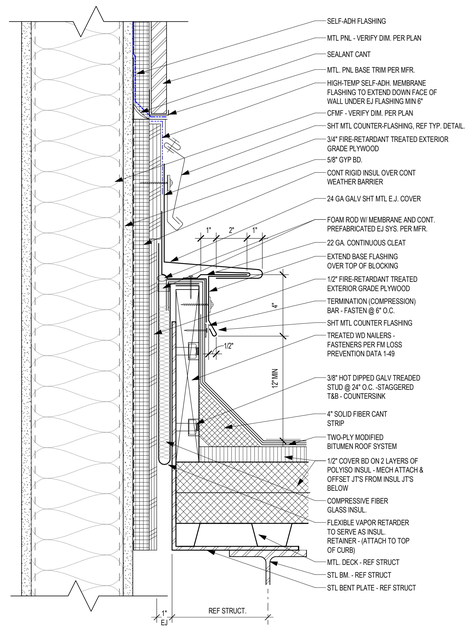
7 TYP THRU WALL SCUPPER - OVERFLOW
3" = 1'-0"



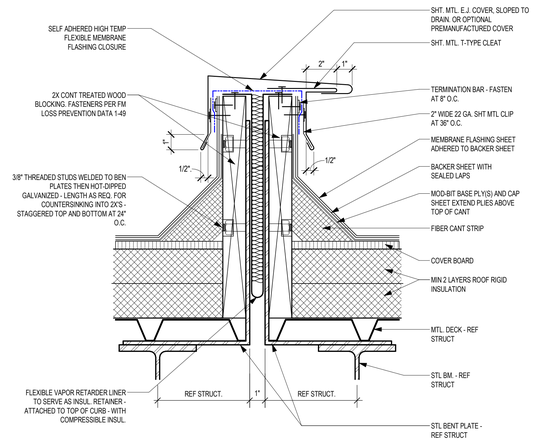
6 TYP THRU WALL SCUPPER - PRIMARY
3" = 1'-0"



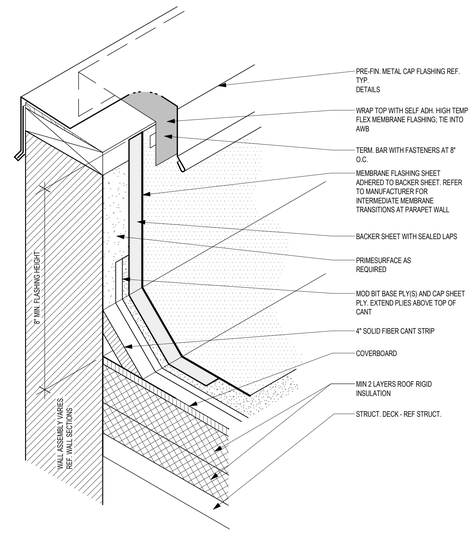
5 TYP THRU WALL OVERFLOW SCUPPER
N.T.S.



4 TYP ROOF E.J. @ WALL W/ MTL COVER
3" = 1'-0"



3 TYP ROOF E.J. DETAIL W/ MTL COVER
3" = 1'-0"



1 TYP BASE FLASHING @ PARAPET
3" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29 904
STATE OF TEXAS
7/15/2026

Huckabee
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TYPICAL ROOFING DETAILS MOD-BIT

VOLUME 01

Job No.	Sheet No.
0/0802-04-01	A7.03
Drawn By: MF	
Date: 07.15.26	

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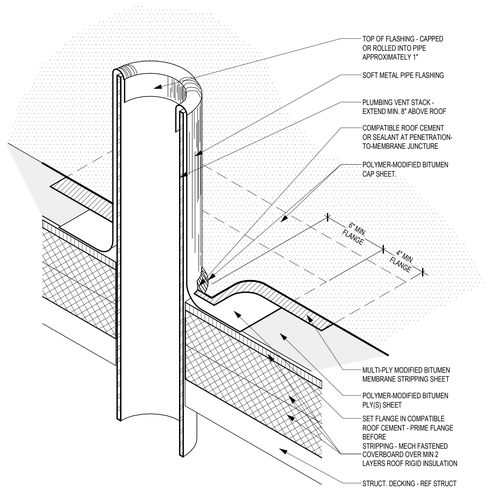

14 PLUMBING VENT
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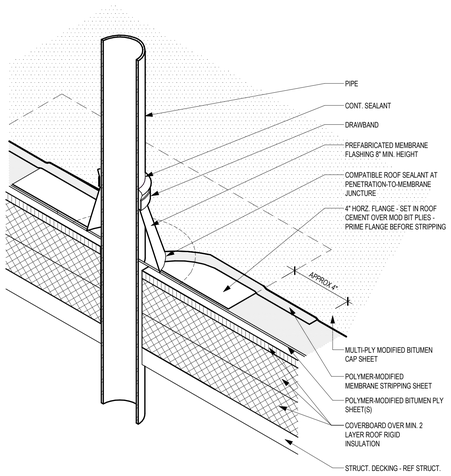

13 TYP PITCH PAN PENETRATION DETAIL
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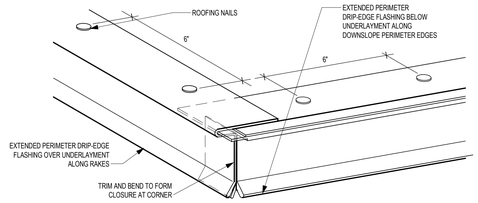
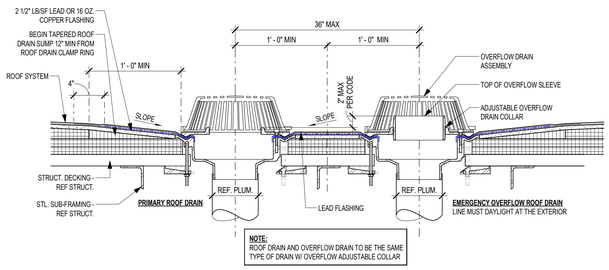
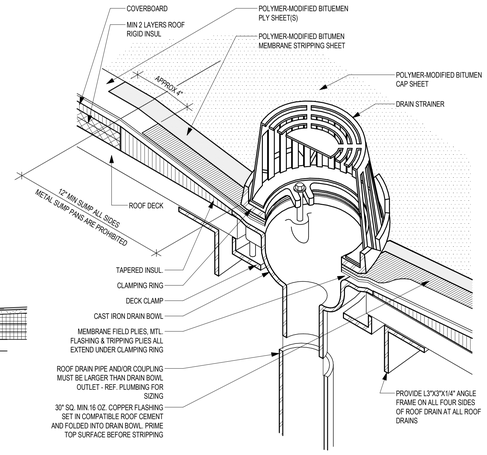


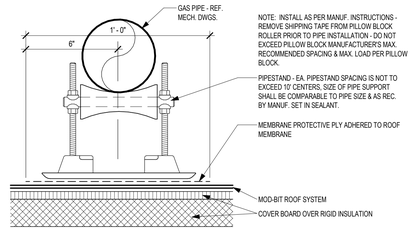
16 TYP MTL DRIP @ EAVE & RAKES
3" = 1'-0"



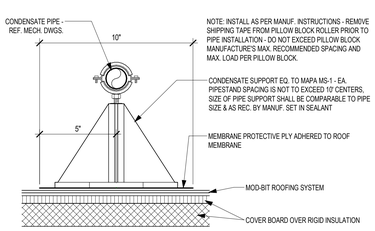
12 ROOF DRAIN & OVERFLOW DRAIN
1 1/2" = 1'-0"



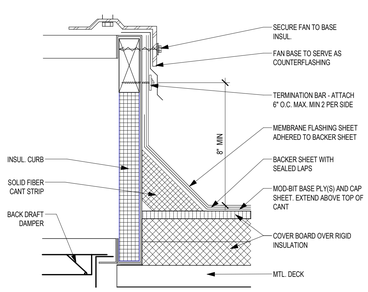
11 ROOF DRAIN
N.T.S.



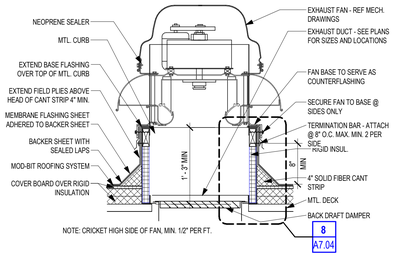
10 TYP GAS PIPE SUPPORT DETAIL
3" = 1'-0"



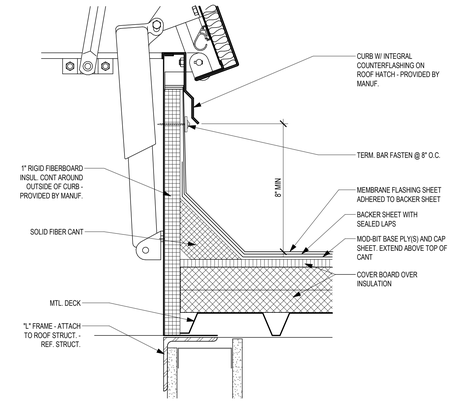
9 TYP CONDENSATE SUPPORT DETAIL
3" = 1'-0"



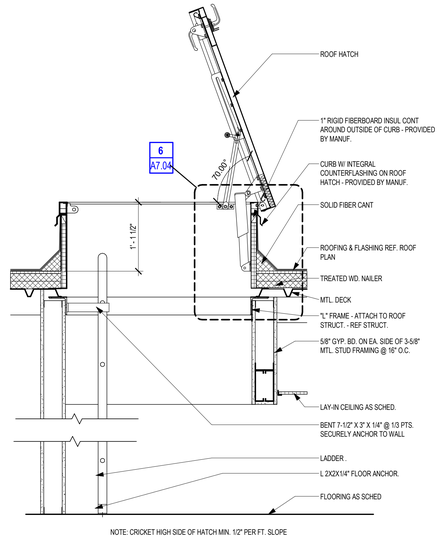
8 SECTION B - TYP EXHAUST FAN MOUNTING CURB DET
3" = 1'-0"



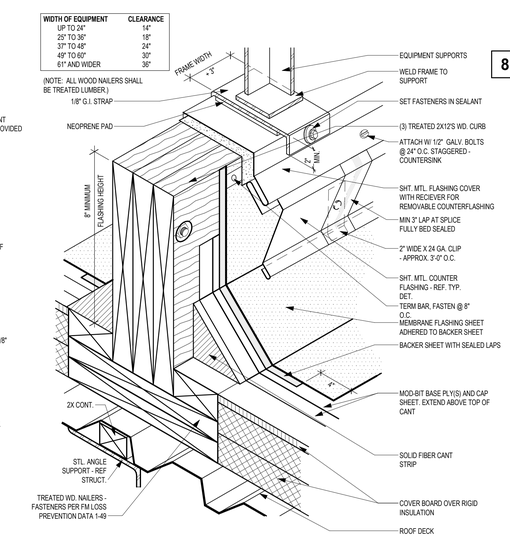
7 TYP EXHAUST FAN INSTALLATION DETAIL
1" = 1'-0"



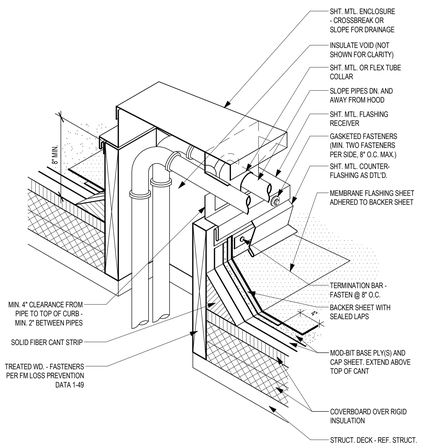
6 SECTION A - TYP ROOF HATCH
3" = 1'-0"



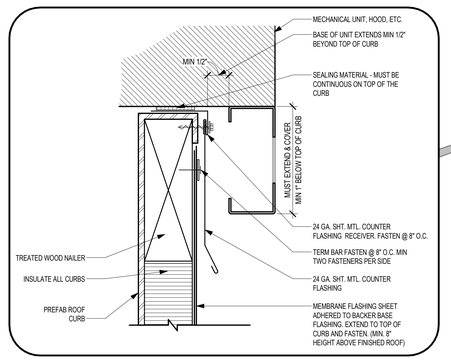
5 TYP ROOF HATCH
1" = 1'-0"



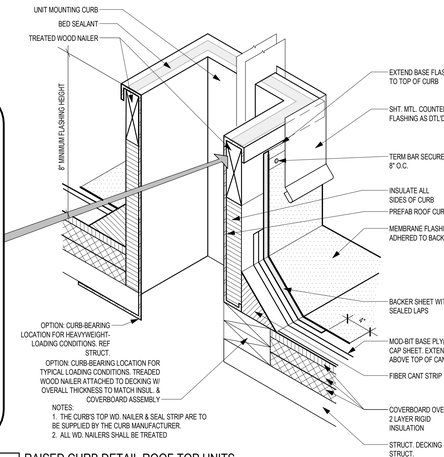
4 EQUIPMENT MOUNTING SUPPORT DETAIL
N.T.S.



3 MULTI-PIPE ROOF PENETRATION
N.T.S.



2 COUNTER FLASHING DETAIL FOR CURB
3" = 1'-0"



1 RAISED CURB DETAIL ROOF TOP UNITS
N.T.S.

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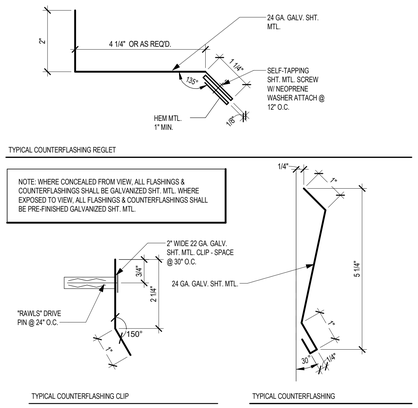
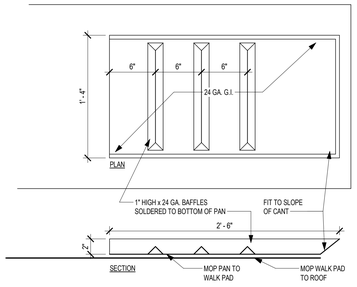
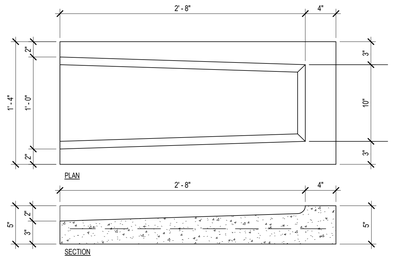


TYPICAL COUNTERFLASHING REGLET

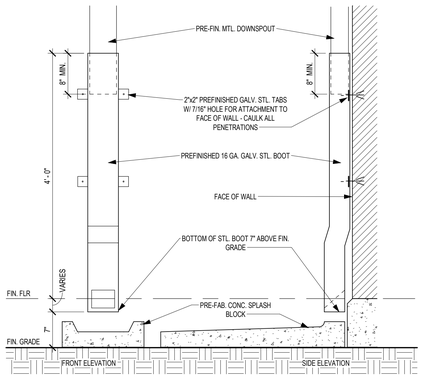
18 TYP COUNTERFLASHING COMPONENTS
6" = 1'-0"



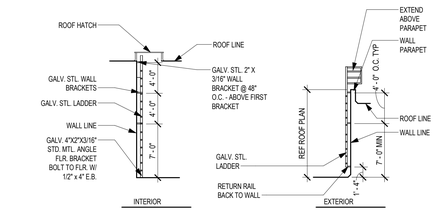
17 TYP METAL SPLASH PAN @ ROOF
1 1/2" = 1'-0"



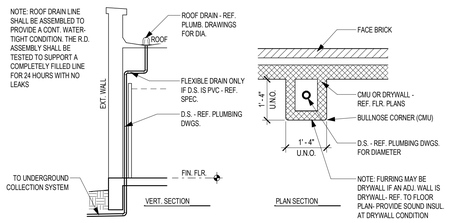
16 TYP CONCRETE SPLASH BLOCK @ GRADE
1 1/2" = 1'-0"



15 MTL DOWNSPOUT BOOT ELEV'S @ GRADE
1" = 1'-0"



14 TYP LADDER ELEVATIONS
1/8" = 1'-0"



13 TYP CONCEALED D.S. & ROOF DRAIN
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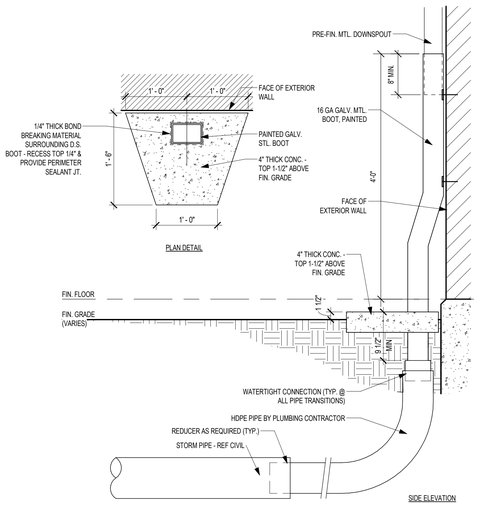
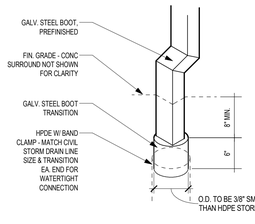
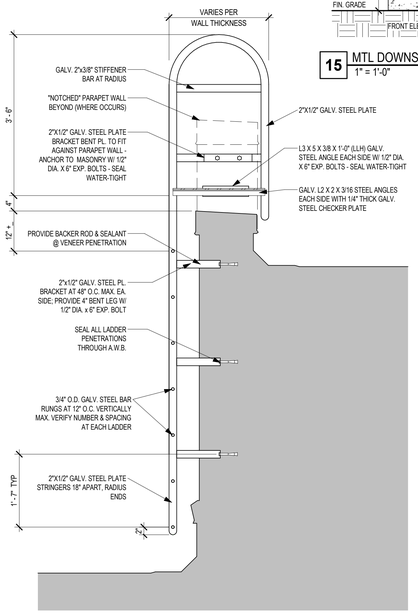


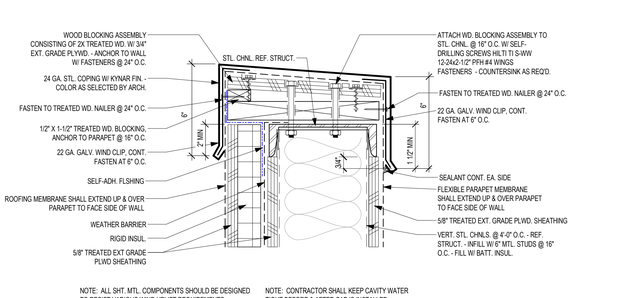
12 DOWNSPOUT CONNECTION FOR SUB-GRADE DRAINAGE
1" = 1'-0"



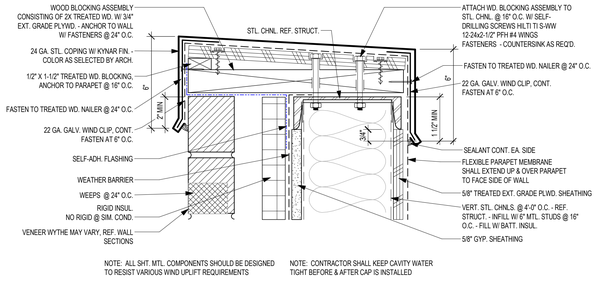
11 DOWNSPOUT CONNECTION FOR SUB-GRADE DRAINAGE
1" = 1'-0"



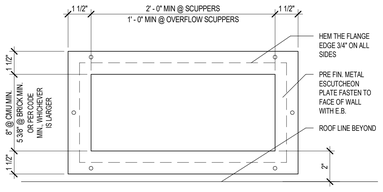
10 ROOF LADDER DETAIL
3/4" = 1'-0"



9 TYP PARAPET CAP DETAIL - MTL STUD
3" = 1'-0"



8 SCUPPER - TYP ELEVATION
3" = 1'-0"



7 CONDUCTOR HEAD - SCUPPER IN BACK
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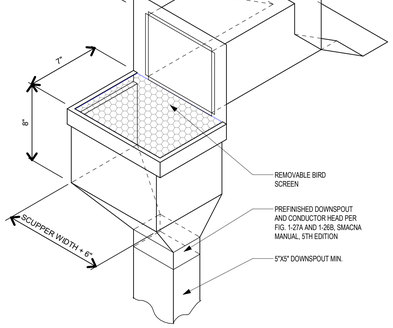
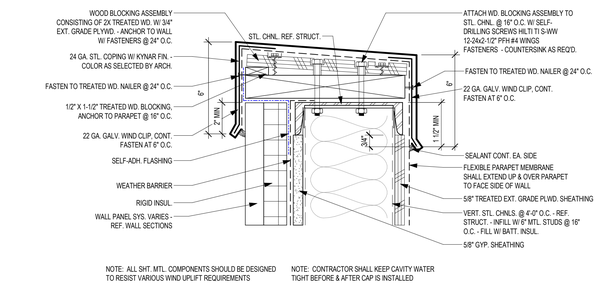
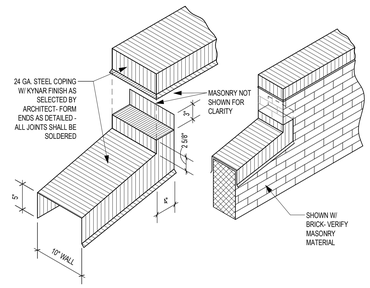


6 TYP PARAPET CAP DETAIL - MTL STUD
3" = 1'-0"



5 TYP PARAPET CAP DETAIL - MTL STUD
3" = 1'-0"



4 TYP PARAPET HT. TRANSITION FLASHING
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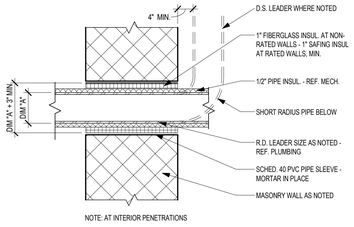
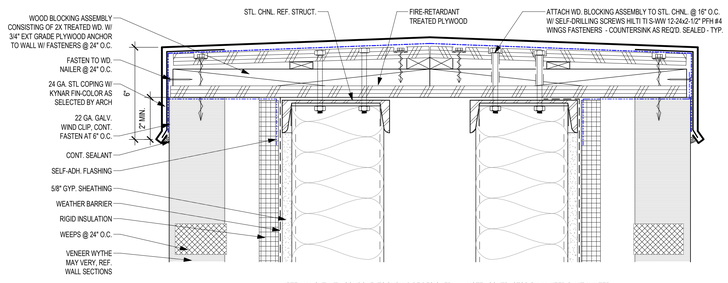
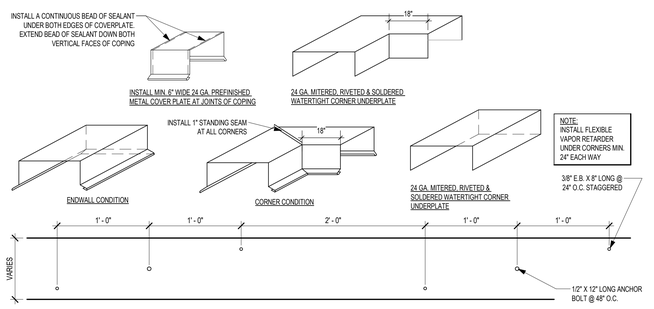


3 TYP PIPE PENETRATION DETAIL
3/4" = 1'-0"



2 PARAPET CAP DETAIL
3" = 1'-0" BACK REF: A6.12



1 TYP BOLT PATTERN FOR 2X CAP NAILER
N.T.S.

Revision / Date

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REGISTERED ARCHITECT CAITLIN MUNCH 29 STATE OF TEXAS
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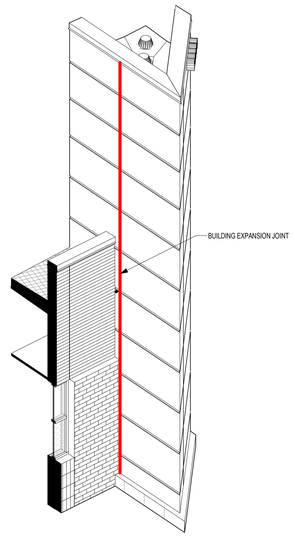
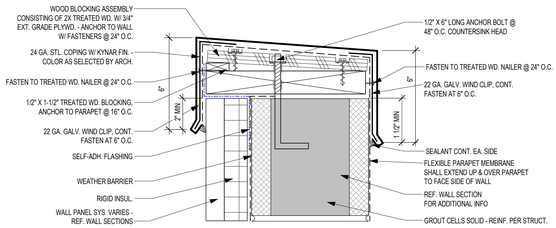
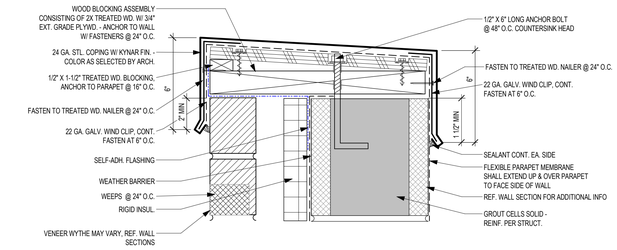




NOTE: ALL SHT. MTL. COMPONENTS SHOULD BE DESIGNED TO RESIST VARIOUS WIND UPLIFT REQUIREMENTS

NOTE: CONTRACTOR SHALL KEEP CAVITY WATER TIGHT BEFORE & AFTER CAP IS INSTALLED

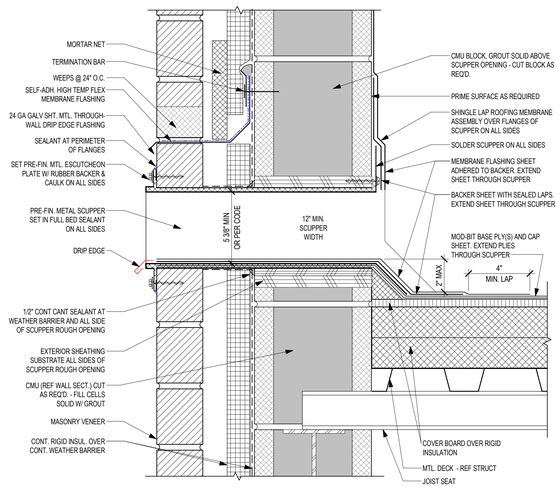
6 TYP PARAPET CAP DETAIL - CMU
3" = 1'-0"



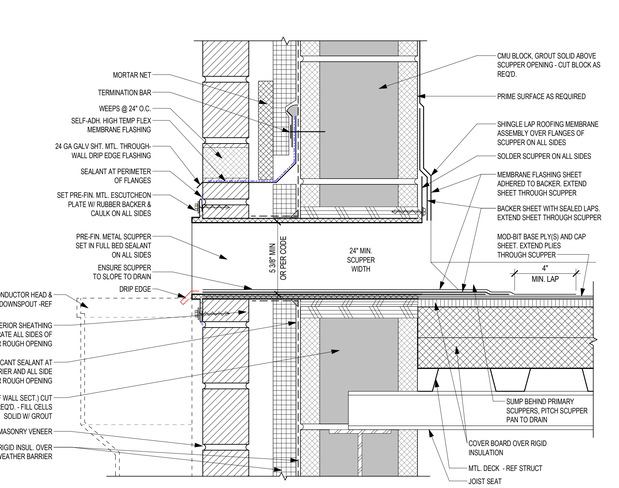
NOTE: ALL SHT. MTL. COMPONENTS SHOULD BE DESIGNED TO RESIST VARIOUS WIND UPLIFT REQUIREMENTS

NOTE: CONTRACTOR SHALL KEEP CAVITY WATER TIGHT BEFORE & AFTER CAP IS INSTALLED

5 TYP PARAPET CAP DETAIL - CMU
3" = 1'-0"



4 TYP THRU WALL SCUPPER - OVERFLOW
3" = 1'-0"



3 TYP THRU WALL SCUPPER - PRIMARY
3" = 1'-0"

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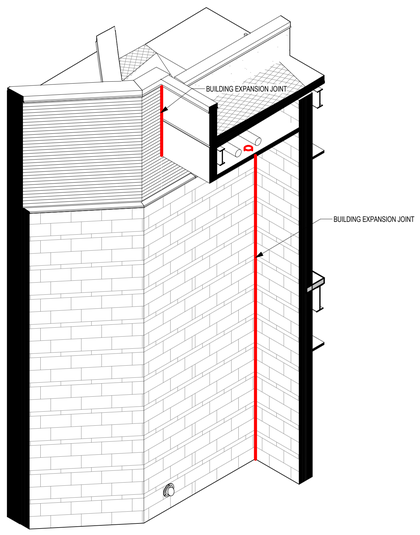
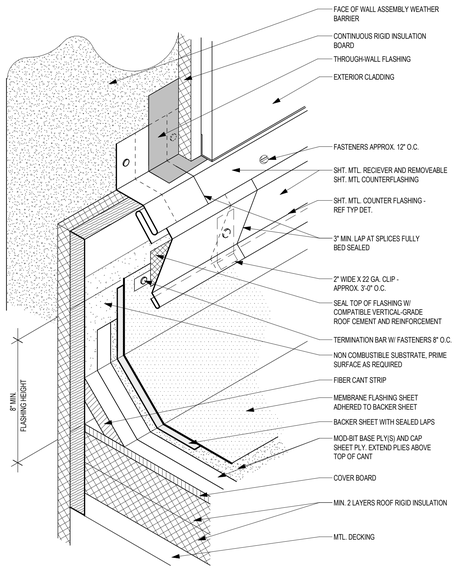
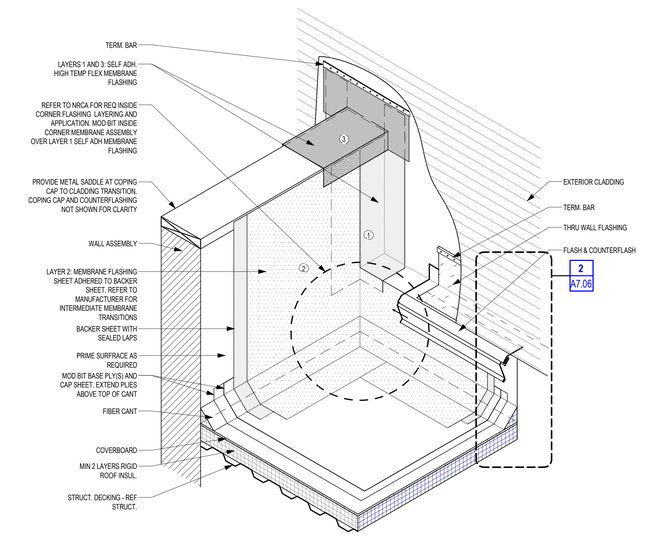




2 TYP BASE FLASHING FOR METAL PANEL WALL
3" = 1'-0"



1 INSIDE CORNER DETAIL
3/4" = 1'-0"

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FOR
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EQUIPMENT SCHEDULE - LEVEL 1 AREA A

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
03	KILN	OLYMPIC	FREEDOM 2827HE	CFCI	
04	METAL UTILITY SHELVING			OFOI	36"W x 18"D x 84"H
07	FLAT SCREEN TV WITH WALL MOUNT			CFCI	REF. ELEVATIONS FOR MOUNTING HEIGHT
08	10' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
09	4' TACK BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
36	LAUNDRY SINK			CFCI	REF. PLUMBING
37	PERCUSSION SHELVING		GEARBOSS SHELF 30 1/2"		
AED				CFCI	CONFIRM LOCATIONS WITH OWNER
BS116	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS116-0	CFCI	
BS117	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS117-0	CFCI	
BS140	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS140-0	CFCI	
BS141	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS141-0	CFCI	
BS162	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS162-1	CFCI	
BS171	INSTRUMENT STORAGE CABINET	MARCO GROUP	BS171-3	CFCI	
FE	WALL HUNG FIRE EXTINGUISHER			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	



1 EQUIPMENT PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

EQUIPMENT PLAN LEGEND

XXX — EQUIPMENT NUMBER
REF. SCHEDULE ON A6 SHTS. FOR DESCRIPTION

FB — FLOOR BOX
REF. ELECTRICAL DRAWINGS

XX — TOILET ACCESSORY NUMBER
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 ROOM NAME 101 — DISTRICT ROOM NUMBER / DISTRICT ROOM NAME / CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

GENERAL EQUIPMENT PLAN NOTES

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

4) ALL SHORT THROW PROJECTORS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 8'-0" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA MOUNTING HEIGHT.

5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS 29

7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA A

VOLUME 01

Job No.	Sheet No.
00802-04-01	A8.1A
Drawn By: CB	
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PLAN

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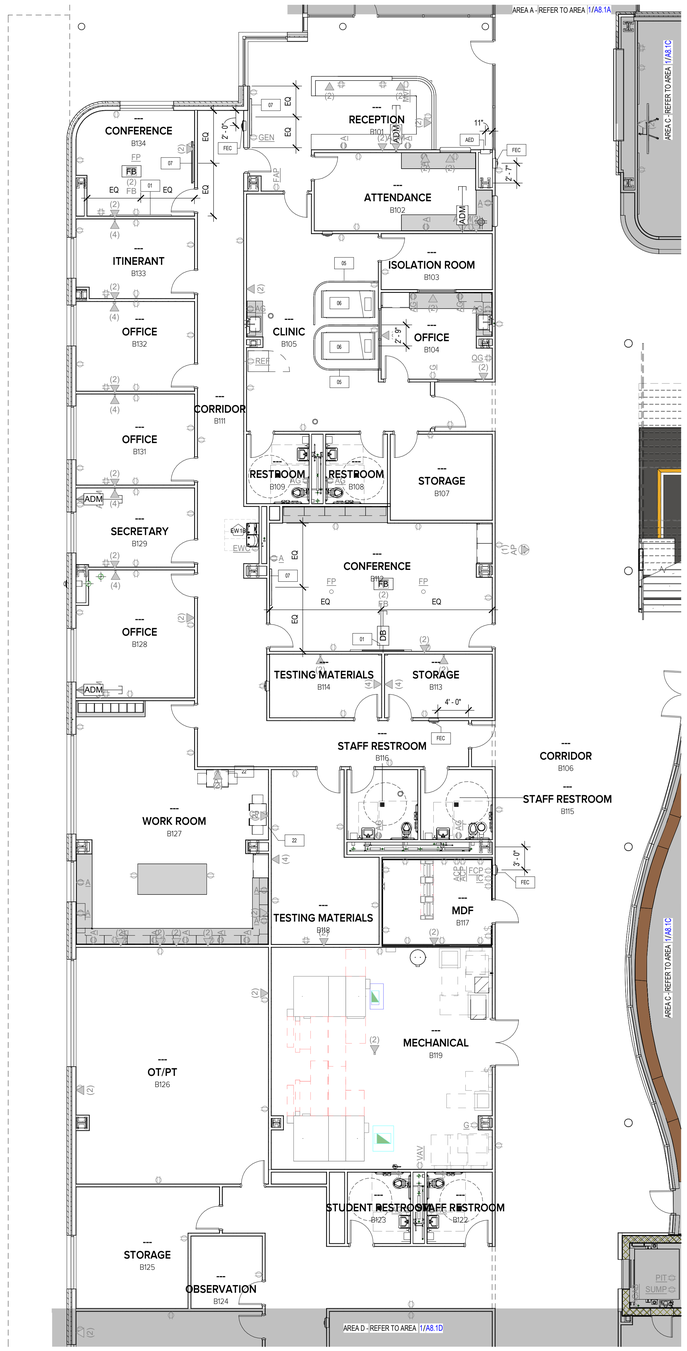
EQUIPMENT SCHEDULE - LEVEL 1 AREA B

NUMBER	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
05	CLINIC CURTAIN			CFCI	
06	HOSPITAL BED			CFCI	
07	FLAT PANEL TV	REF. TECH	REF. TECH	CFCI	MOUNTING HEIGHT 5' 2 1/2"
22	COPIER			OFOI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	



1 EQUIPMENT PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

XXX EQUIPMENT NUMBER
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB FLOOR BOX
REF. ELECTRICAL DRAWINGS

(XX) TOILET ACCESSORY NUMBER
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 DISTRICT ROOM NUMBER
ROOM NAME DISTRICT ROOM NAME
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

4) ALL SHORT THROW PROJECTORS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 8'-0" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA MOUNTING HEIGHT.

5) REF. MEP SHEETS FOR ALL EQUIPMENT: POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

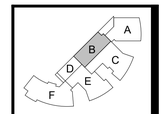
7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.



7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA B

VOLUME 01

Job No.	Sheet No.
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EQUIPMENT SCHEDULE - LEVEL 1 AREA C

NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
08	10' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
09	4' TACK BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
24	12' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	



1 EQUIPMENT PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

XX **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 ROOM NAME 101 **DISTRICT ROOM NUMBER** **DISTRICT ROOM NAME** CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

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3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

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6) ALL METAL SHELVING TO BE OFOI.

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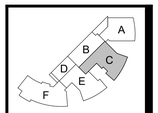
GENERAL EQUIPMENT PLAN NOTES

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29811
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA C

VOLUME 01

Job No. 00802-04-01	Sheet No. A8.1C
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EQUIPMENT SCHEDULE - LEVEL 1 AREA D					
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			CFCI	
10	REFRIGERATOR			CFCI	
11	FREESTANDING ELECTRIC RANGE	GE APPLIANCES	JS645SLSS	CFCI	
12	RESIDENTIAL WASHER	GE APPLIANCES	GFW430SSMWW	CFCI	
13	RESIDENTIAL DRYER	GE APPLIANCES	GFD43ESSMWW	CFCI	
31	ADULT CHANGING STATION		R8523	CFCI	
33	PEOPLE LIFT	PC2	HORCHER	CFCI	
34	RESIDENTIAL KITCHEN EXHAUST RANGE HOOD FOR COMMERCIAL BUILDINGS W/ FIRE SUPPRESSION	DENLAR	D10XX-F NFPA	CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

XX **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 **DISTRICT ROOM NUMBER**
ROOM NAME **DISTRICT ROOM NAME**
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

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3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

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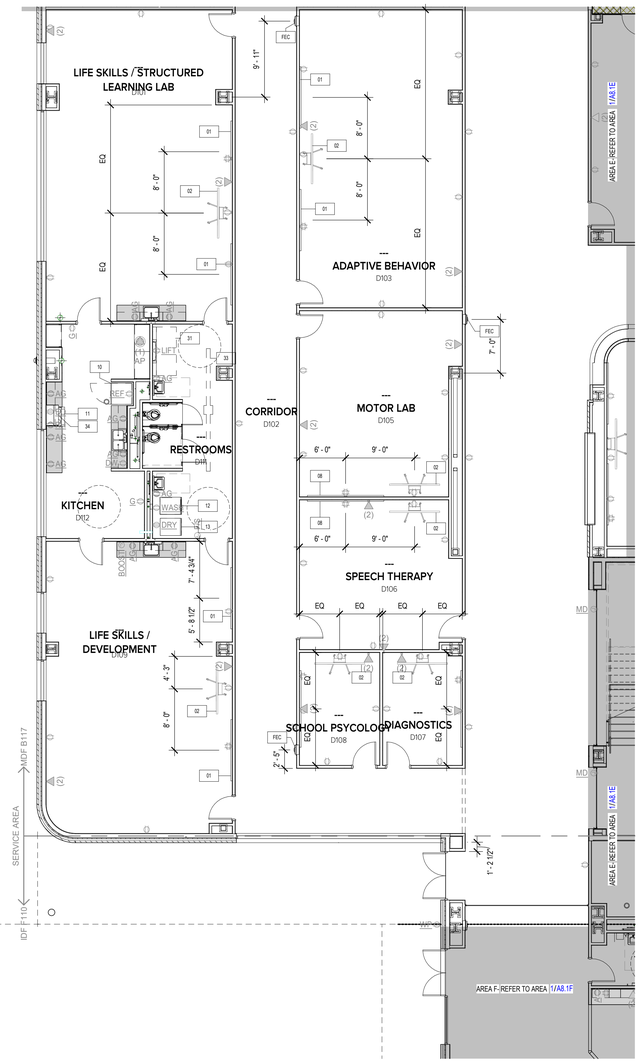
GENERAL EQUIPMENT PLAN NOTES

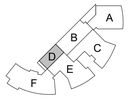


1 EQUIPMENT PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29 TEXAS
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA D

VOLUME 01

Job No. 00802-04-01
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EQUIPMENT SCHEDULE - LEVEL 1 AREA E					
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
09	4' TACK BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
10	REFRIGERATOR			OFCI	
14	55LB ICE MAKER	MANITOWOC		CFCI	
24	12' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
FE	WALL HUNG FIRE EXTINGUISHER			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

XX **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 **DISTRICT ROOM NUMBER**
ROOM NAME **DISTRICT ROOM NAME**
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

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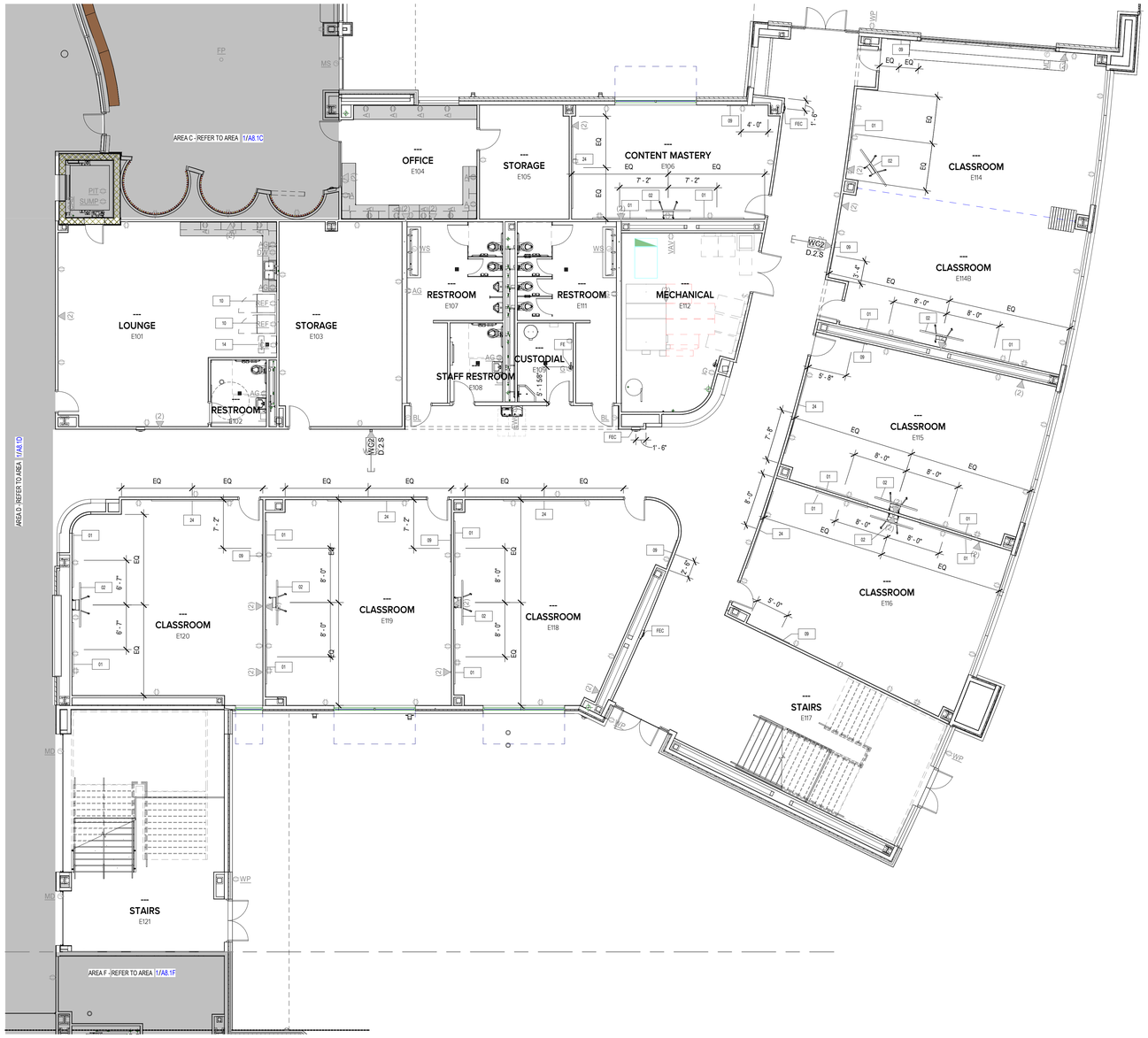
5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

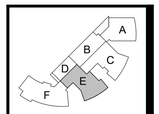


1 EQUIPMENT PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 1
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29 1 54
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA E

VOLUME 01

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00802-04-01	A8.1E
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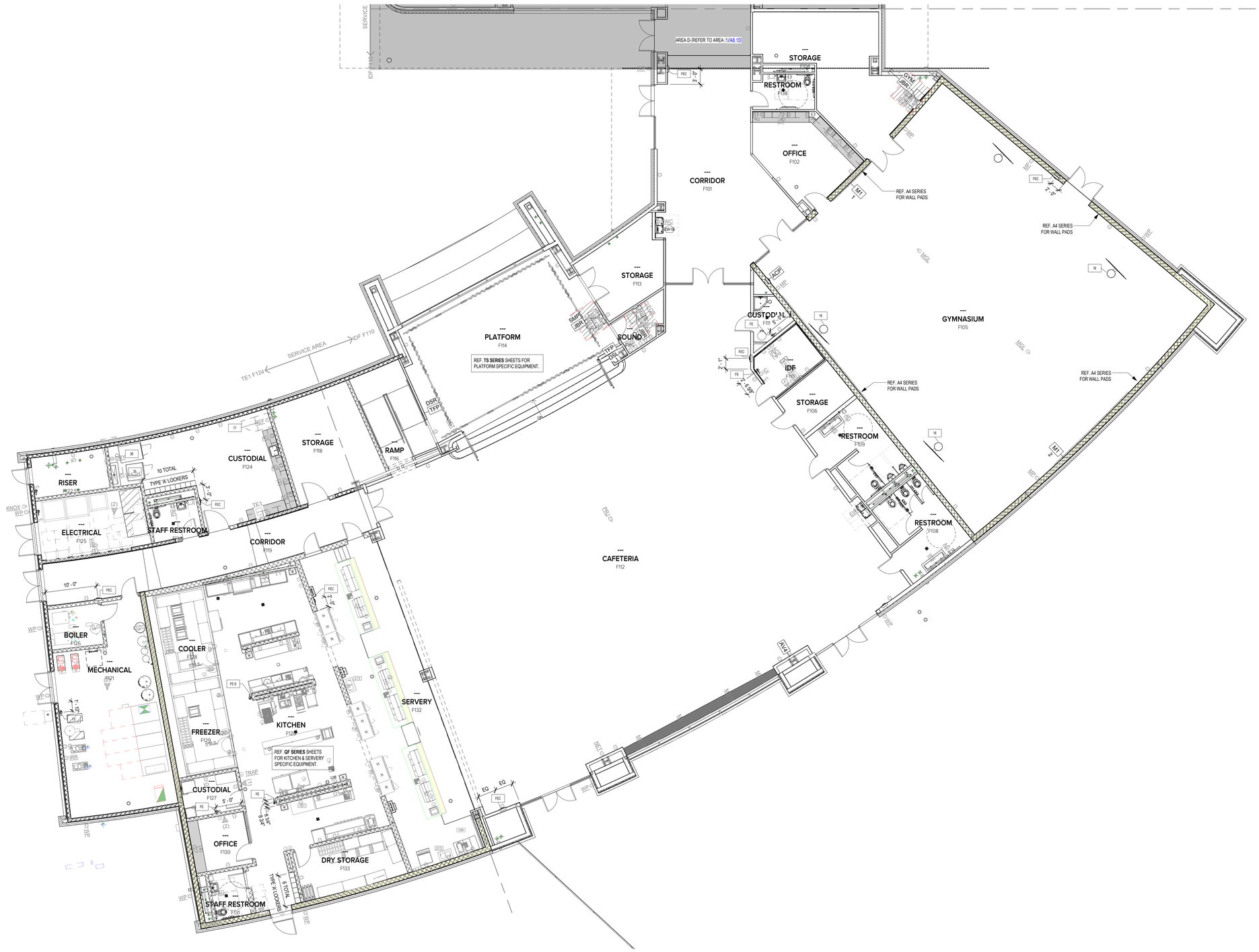
EQUIPMENT SCHEDULE - LEVEL 1 AREA F					
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
15	BASKETBALL BACKSTOP	PORTER		CFCI	FORWARD FOLDING, ADJUSTABLE HEIGHT
16	WALL MOUNTED STATIONARY BACKSTOP	PORTER		CFCI	
17	REFRIGERATOR	GE APPLIANCES	GIE22JSNRSS	CFCI	
20	LOCKER			CFCI	REF. LOCKER TYPE
35	COMMERCIAL WASHER - 55 LB	SPEED QUEEN	SY55	CFCI	
36	COMMERCIAL DRYER/EXTRACTOR - 75 LB	SPEED QUEEN	ST075	CFCI	
FE	WALL HUNG FIRE EXTINGUISHER			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	


SERVICE
IDF F110
AREA D- REFER TO AREA 1/A8.1D
STORAGE
F103
RESTROOM
F108
OFFICE
F102
CORRIDOR
F101
GYM
IBR
MF
FEC
2'-0"
MAT
REF. A4 SERIES FOR WALL PADS
WC
F119
STORAGE
F113
PLATFORM
F114
REF. TS SERIES SHEETS FOR PLATFORM SPECIFIC EQUIPMENT.
SMP
IBR
SOUND
F115
CUSTODIAL
F111
5'-0"
ACP
FE
GYMNASIUM
F105
IDF
F110
2'-1"
2'-4 5/8"
REF. A4 SERIES FOR WALL PADS
STORAGE
F106
RESTROOM
F109
RESTROOM
F108
REF. A4 SERIES FOR WALL PADS
SERVICE AREA
IDF F110
TEL F124
DSR
TTP
RAMP
F116
STORAGE
F118
CUSTODIAL
F124
RISER
R122
10 TOTAL
TYPE 'A' LOCKERS
STAFF RESTROOM
F120
ELECTRICAL
F125
CORRIDOR
F119
CAFETERIA
F112
10'-0"
BOILER
F126
MECHANICAL
F121
COOLER
F128
FREEZER
F129
KITCHEN
F122
REF. OF SERIES SHEETS FOR KITCHEN & SERVERY SPECIFIC EQUIPMENT.
SERVERY
F132
CUSTODIAL
F127
5'-0"
OFFICE
F130
DRY STORAGE
F133
8 TOTAL
TYPE 'A' LOCKERS
STAFF RESTROOM
F131
KNOX
WP
TRAP
EQ
EQ
AWP
MEP
MEP
ME

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EQUIPMENT SCHEDULE - AREA B LEVEL 02					
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
10	REFRIGERATOR			OFCI	
18	BARRIER-FREE EMERGENCY SHOWER & EYEWASH	HAWS	8309WC	CFCI	
19	METAL UTILITY SHELVING			OFOI	48"W x 18"D x 84"H
32	6' MARKER BOARD			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

XX **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 **DISTRICT ROOM NUMBER**
ROOM NAME **DISTRICT ROOM NAME**
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

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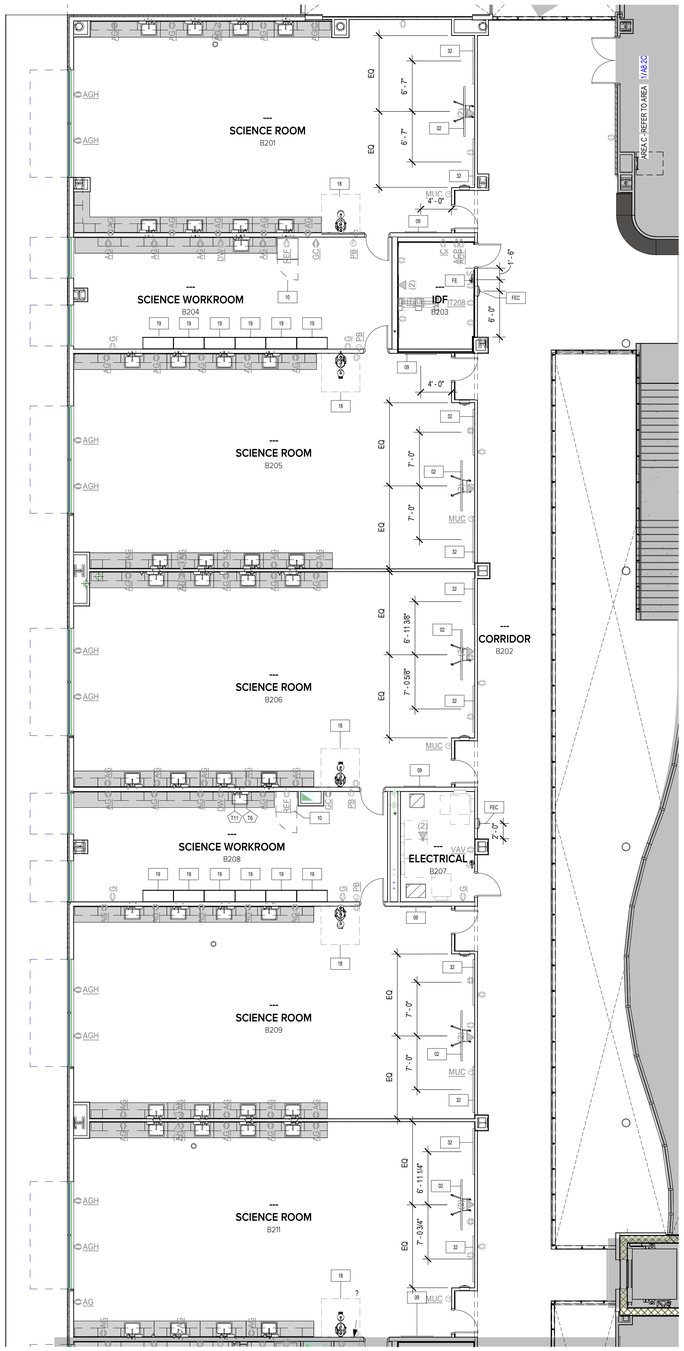
5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

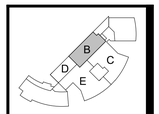


1 EQUIPMENT PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29 TEXAS
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA B

VOLUME 01

Job No.	Sheet No.
00802-04-01	A8.2B
Drawn By: CB	
Date: 07.15.26	

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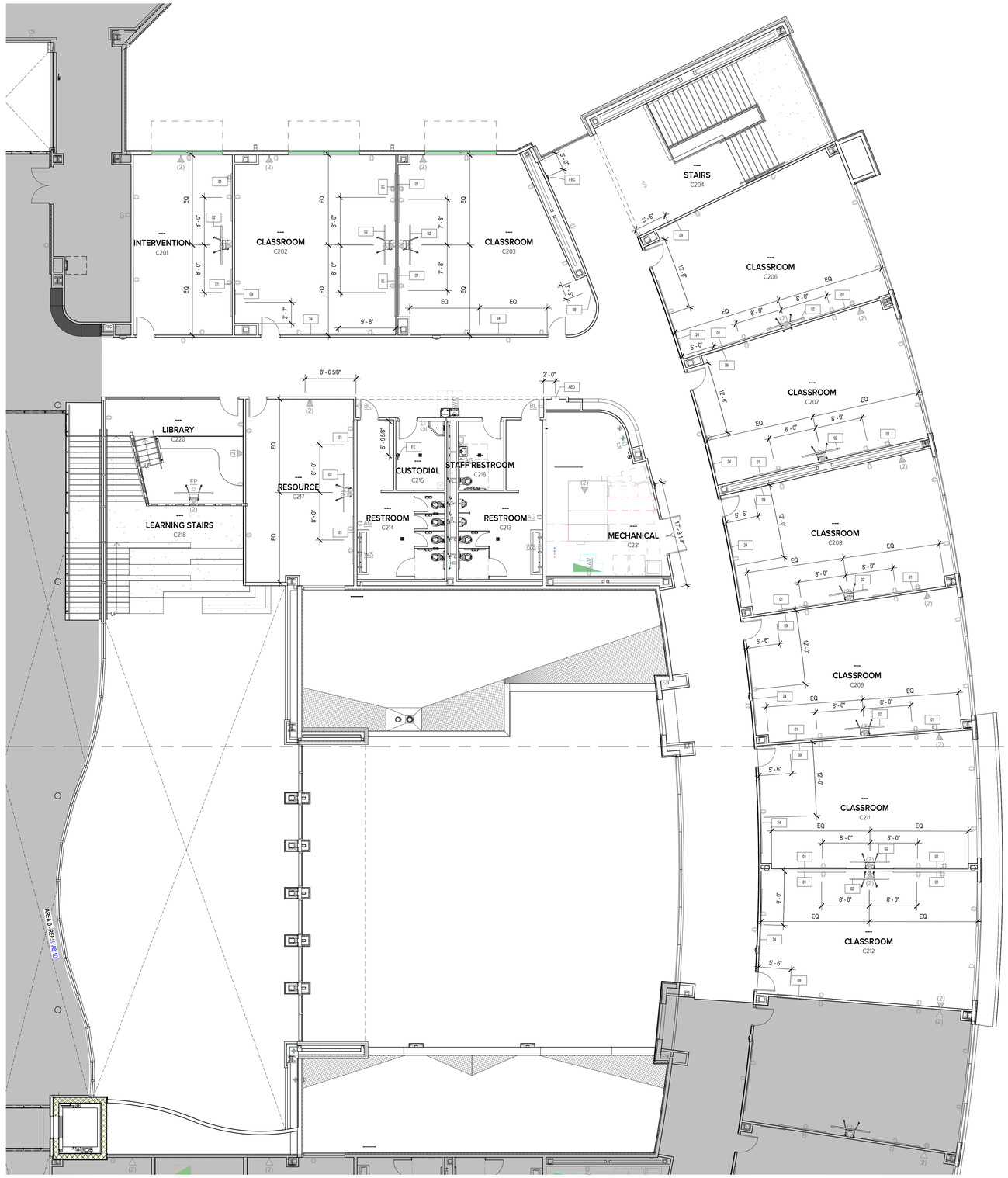
EQUIPMENT SCHEDULE - AREA C LEVEL 02

NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
09	4' TACK BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
24	12' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
FE	WALL HUNG FIRE EXTINGUISHER			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	



1 EQUIPMENT PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

PLAN

XXX EQUIPMENT NUMBER
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB FLOOR BOX
REF. ELECTRICAL DRAWINGS

W TOILET ACCESSORY NUMBER
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 DISTRICT ROOM NUMBER
ROOM NAME DISTRICT ROOM NAME
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

4) ALL SHORT THROW PROJECTORS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 8'-0" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA MOUNTING HEIGHT.

5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

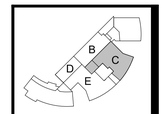
7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.



7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA C

VOLUME 01

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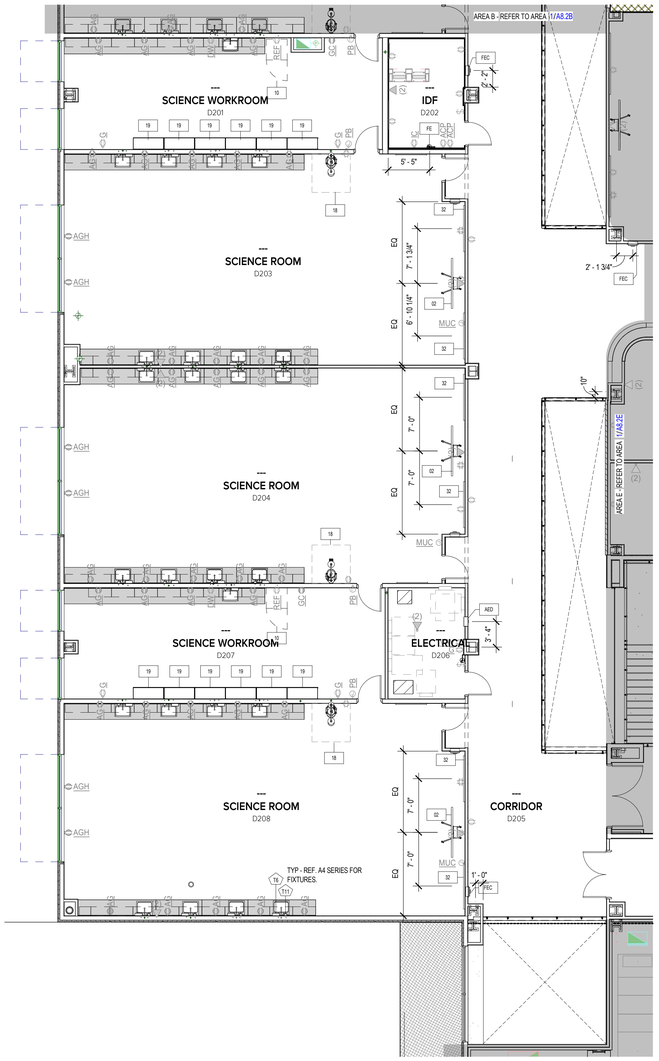
EQUIPMENT SCHEDULE - AREA D LEVEL 02

NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
02	INTERACTIVE MONITOR ON WHEELS				
10	REFRIGERATOR				
18	BARRIER-FREE EMERGENCY SHOWER & EYEWASH	HAWS	8309WC		
19	METAL UTILITY SHELVING				
32	6' MARKER BOARD				
FEC	RECESSED FIRE EXTINGUISHER				



1 EQUIPMENT PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

(XX) **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 **DISTRICT ROOM NUMBER**
ROOM NAME **DISTRICT ROOM NAME**
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

3) REF. ENLARGED FLOOR PLANS FOR ALL RESTROOM FIXTURES AND ACCESSORIES.

4) ALL SHORT THROW PROJECTORS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 8'-0" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA MOUNTING HEIGHT.

5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

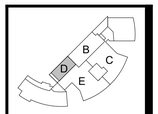
7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA D

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EQUIPMENT SCHEDULE - AREA E LEVEL 02					
NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO.	RESPONSIBILITY	COMMENTS
01	8' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
02	INTERACTIVE MONITOR ON WHEELS			OFOI	
09	4' TACK BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
24	12' MARKER BOARD	CLARIDGE	LCS3 - SERIES 1	CFCI	
FE	WALL HUNG FIRE EXTINGUISHER			CFCI	
FEC	RECESSED FIRE EXTINGUISHER			CFCI	

XXX **EQUIPMENT NUMBER**
REF. SCHEDULE ON A8 SHTS. FOR DESCRIPTION

FB **FLOOR BOX**
REF. ELECTRICAL DRAWINGS

XX **TOILET ACCESSORY NUMBER**
REF. SCHEDULE ON A1.31 & A1.32 FOR DESCRIPTION

1.01 **DISTRICT ROOM NUMBER**
ROOM NAME **DISTRICT ROOM NAME**
101 CONSTRUCTION ROOM NUMBER

COMMENTS:
1. REF. ELECTRICAL SHEETS FOR POWER.
2. REF. FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT.
3. REF. THEATRICAL FOR PLATFORM EQUIPMENT.

EQUIPMENT PLAN LEGEND

1) TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES NOT NOTED ON THESE PLANS. SEE PLUMBING PLANS AND ENLARGED FLOOR PLANS FOR EXACT LOCATIONS AND TYPES OF TYPICAL PLUMBING FIXTURES & TOILET ACCESSORIES.

2) ALL N.I.C. TVS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 60" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA

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4) ALL SHORT THROW PROJECTORS TO HAVE FIRE-RETARDANT TREATED PLYWOOD BLOCKING MOUNTED AT 8'-0" O.C. A.F.F. REFER TO MEP FOR POWER AND DATA MOUNTING HEIGHT.

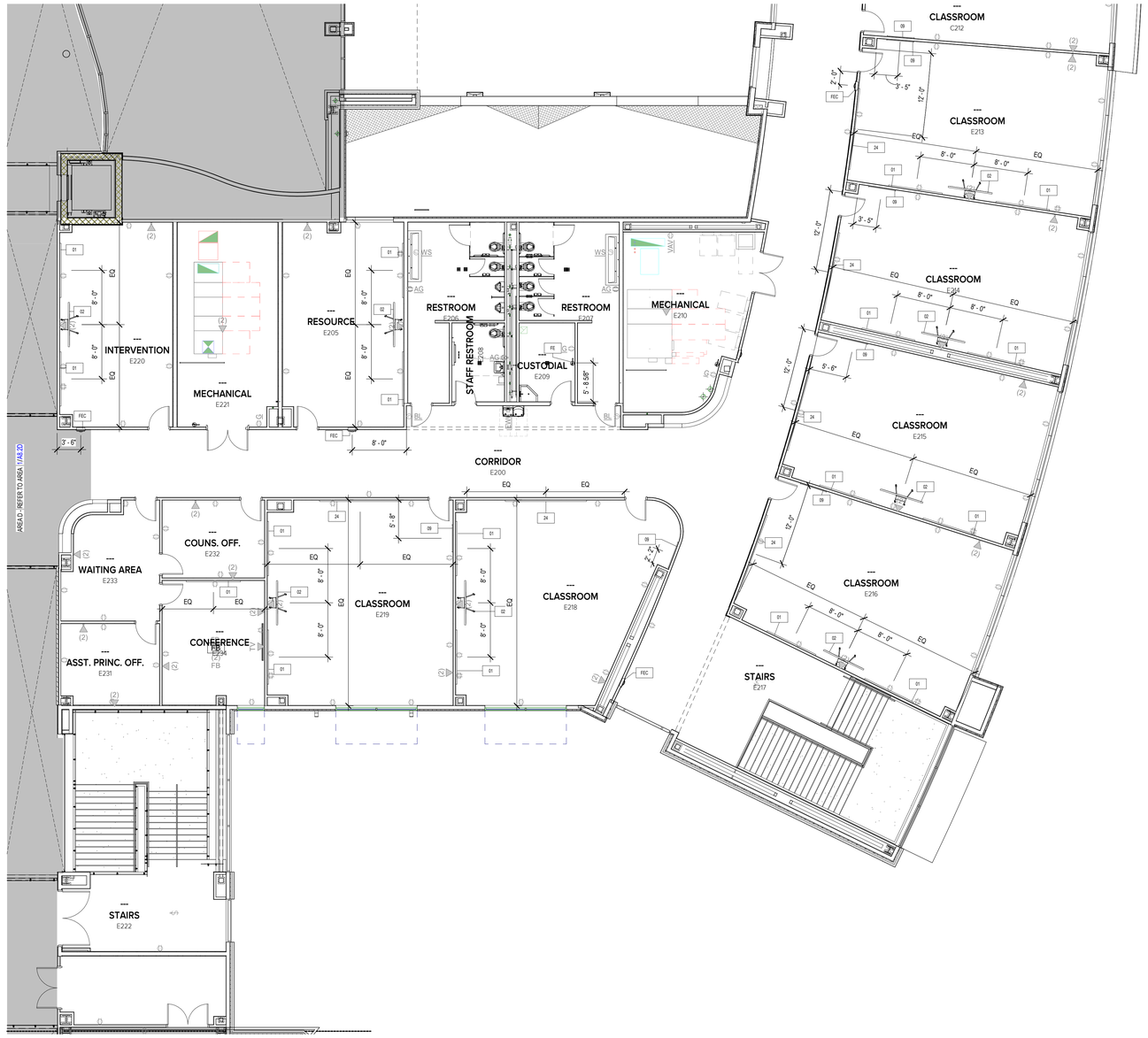
5) REF. MEP SHEETS FOR ALL EQUIPMENT POWER, DATA, PLUMBING, AND MECHANICAL NEEDS.

6) ALL METAL SHELVING TO BE OFOI.

7) GC TO PROVIDE INSTALLATION FOR (5) O.F.C.I. AED RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

8) GC TO PROVIDE INSTALLATION PROPER LOCATION AND CAVITY FOR SEMI - RECESSED CABINETS. OWNER TO CONFIRM LOCATIONS PRIOR TO WALL ERECTION.

GENERAL EQUIPMENT PLAN NOTES

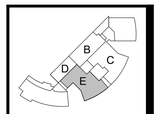


1 EQUIPMENT PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

REGISTERED ARCHITECT
CAITLIN MUNCH
29156
STATE OF TEXAS
7/15/2026

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SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA E

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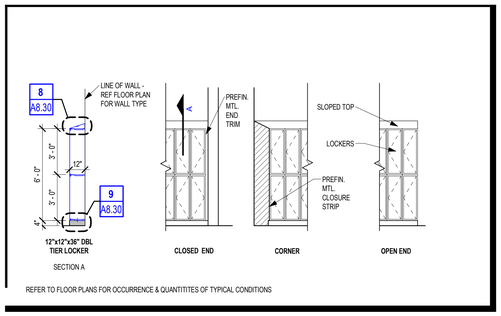
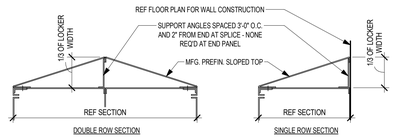
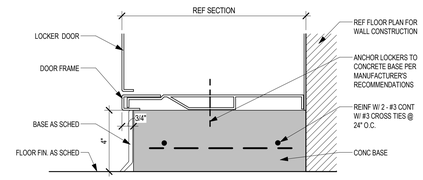


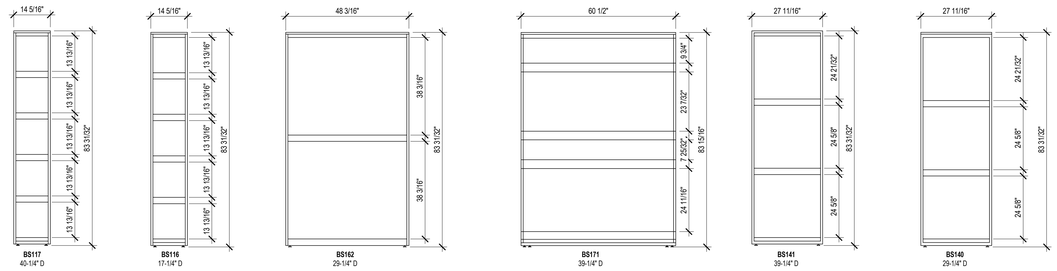
A TYP LOCKER SECT & ELEVS - DBL TIER (12x12x36)
1/4" = 1'-0"



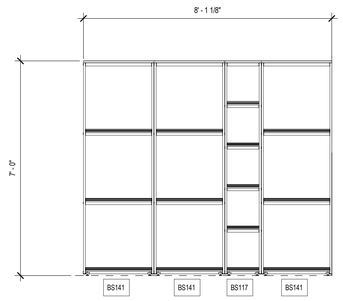
8 SLOPED TOP DETAILS
1 1/2" = 1'-0"



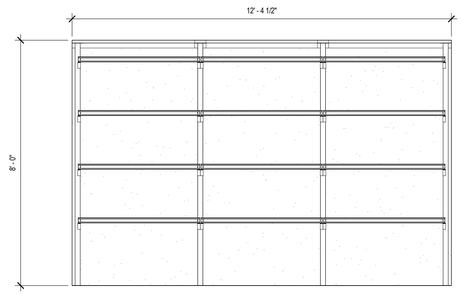
9 TYP 4" LOCKER BASE
3" = 1'-0"



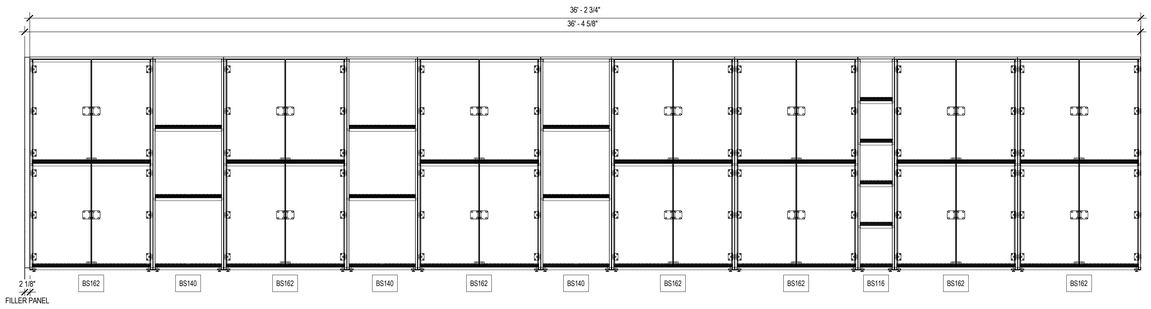
5 INSTRUMENT STORAGE - ELEVATIONS
1/2" = 1'-0"



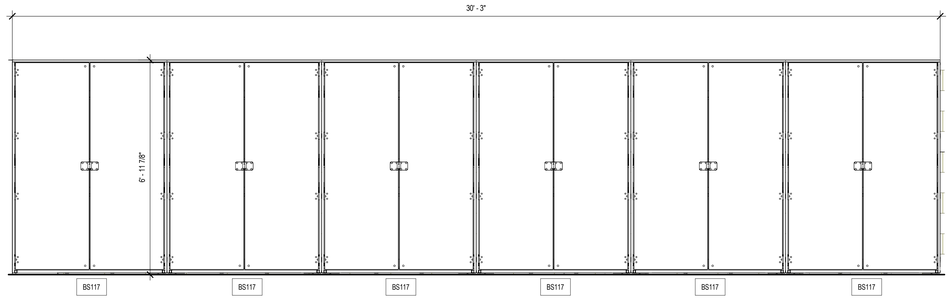
4 MUSIC CASEWORK - BAND ROOM NORTH
1/2" = 1'-0"



3 MUSIC SHELVING - PERCUSSION
1/2" = 1'-0"



2 MUSIC CASEWORK - BAND
1/2" = 1'-0"



1 MUSIC CASEWORK - ORCHESTRA
1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29
STATE OF TEXAS
7/15/2026

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INSTRUMENT STORAGE & LOCKERS

VOLUME 01

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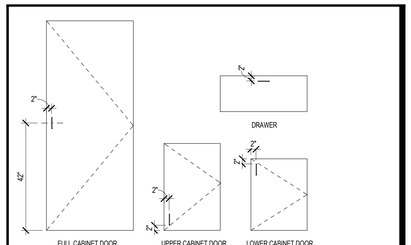
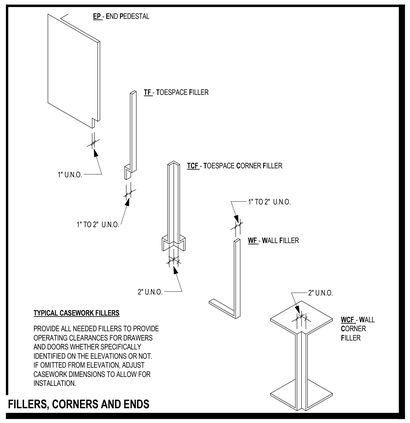


NOTE DOOR & DRAWER PULLS TO BE EQ. TO DOUG MOCKETT DP57B, 4 5/32" WIDE WIRE PULL, SATIN STAINLESS FINISH

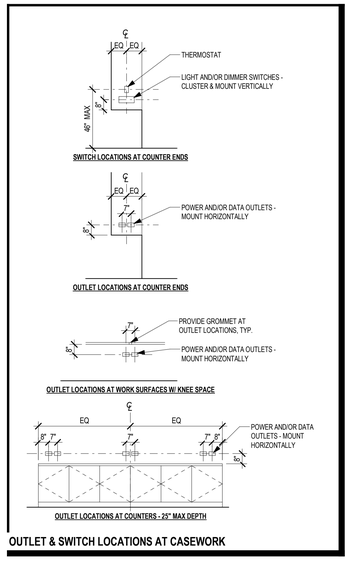
PULL LOCATIONS - WIRE PULLS



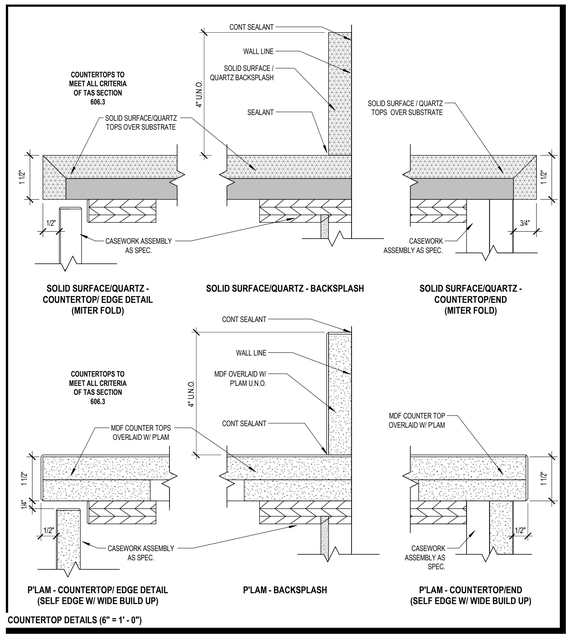
TYPICAL CASEWORK FILLERS

PROVIDE ALL NEEDED FILLERS TO PROVIDE OPERATING CLEARANCES FOR DRAWERS AND DOORS WHETHER SPECIFICALLY IDENTIFIED ON THE ELEVATIONS OR NOT. IF OMITTED FROM ELEVATION, ADJUST CASEWORK DIMENSIONS TO ALLOW FOR INSTALLATION.

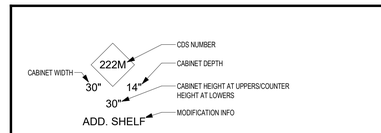
FILLERS, CORNERS AND ENDS



OUTLET & SWITCH LOCATIONS AT CASEWORK



COUNTERTOP DETAILS (6" = 1' - 0")



ALL CASEWORK INDICATED WITH NUMERICAL TAGS REFER TO THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS (NAAWS) 4.0 CABINET DESIGN SERIES, WHICH IS A SET OF DESIGN STANDARDS PROVIDED AS A FREE RESOURCE TO ASSIST ARCHITECTS, DESIGN PROFESSIONALS AND CASEWORK USERS IN DESIGNING CABINETRY. ANY ITEMS DESIGNATED WITH A "M" AT THE END OF THE NUMBER INDICATES A MODIFICATION HAS BEEN MADE TO THAT UNIT AND THE MODIFICATION WILL APPEAR BELOW THE TAG.

CABINET DIMENSIONS INDICATE NOMINAL OUTSIDE DIMENSION (FLOOR TO TOP OF COUNTERTOP FOR HEIGHT AND FACE OF FINISHED WALL TO FACE OF CABINET DOOR FOR DEPTH.) MANUFACTURERS ARE PERMITTED A TOLERANCE OF +/- 1/2" IN WIDTH ONLY.

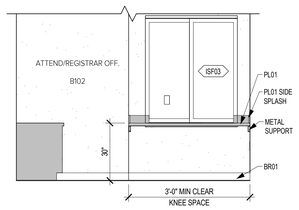
THERE ARE 5 SERIES OF CABINET STYLES:

100 SERIES = BASE CABINETS W/OUT DRAWERS
200 SERIES = BASE CABINETS W/ DRAWERS
300 SERIES = WALL HUNG CABINETS
400 SERIES = TALL STORAGE CABINETS
500 SERIES = TALL WARDROBE CABINETS

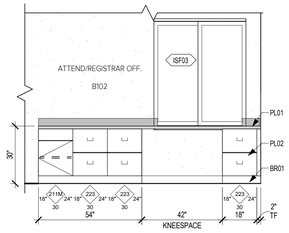
CASEWORK TYPE TAGS

1. COORDINATE DIMENSIONS AND CLEARANCE REQUIREMENTS FOR ALL FILE CABINETS, APPLIANCES AND EQUIPMENT PROVIDED BY CONTRACTOR AND/OR OWNER.
2. COORDINATE PLUMBING AND/OR ELECTRICAL REQUIREMENTS FOR APPLIANCES AND EQUIPMENT WITH CASEWORK.
3. PROVIDE TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
4. COUNTERTOPS TO MEET THE CRITERIA PER TAS SECTION 606.3. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
5. CONTINUE COUNTERTOP BACKSPLASH ONTO SIDEWALLS AND EXTEND TO FRONT EDGE OF COUNTERTOP WHERE SUCH CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.
6. PROVIDE CABINET LOCKS AT ALL DOORS AND DRAWERS. DOORS BELOW SINKS SHALL NOT HAVE LOCKS. KEY EACH ROOM DIFFERENTLY, BUT SIMILAR WITHIN EACH ROOM.
7. PROVIDE STAMPED NUMBER ON CYLINDER LOCK FACE. COORDINATE NUMBERING REQUIREMENT WITH ARCHITECT.
8. PROVIDE COUNTERTOP SUPPORT BRACKETS AT 36" O.C. MAX. AT KNEE SPACES AND LAVATORY COUNTERS, UNLESS NOTED OTHERWISE.
9. PROVIDE 2" DIA. GROMMETS AT ALL WORKSTATIONS WITH KNEE SPACES AND WHERE ACCESS TO POWER AND/OR LOW VOLTAGE IS NEEDED. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
10. PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACE AND TOP AND BOTTOM OF UPPER WALL CABINETS TO FINISH COMPLETELY.
11. EXPOSED CORNERS AT PLASTIC LAMINATE COUNTERTOPS TO HAVE 1" RADIUS CORNERS. EXPOSED CORNERS AT QUARTZ/SOLID SURFACE COUNTERTOPS TO HAVE 1/2" RADIUS CORNERS. EXCLUDES WATERFALL COUNTERTOP CONDITIONS.
12. PROVIDE WALL BASE FOR RECESSED TOE-KICKS AND BACK OF KNEE SPACE(S) UNLESS NOTED OTHERWISE.
13. MILLWORK SHALL BE CAULKED TO WALLS.
14. CLOSE TOP AND BOTTOM VOIDS BETWEEN CORNER CABINETS AND FILLER PANELS WHERE BLIND CORNERS ARE NOT USED.
15. SPLICES ARE NOT PERMITTED ON COUNTERTOP LAMINATE MATERIAL LESS THAN 144" LONG.
16. ENSURE FILE DRAWERS ACCOMMODATE 8 1/2"x11" PENDAFLEX HANGING FILES WITH TABS FRONT TO REAR, TYP.
17. PROVIDE FINISHED SURFACES ON ALL EXPOSED-TO-VIEW CABINET ENDS, BOTTOMS AND SIDES.

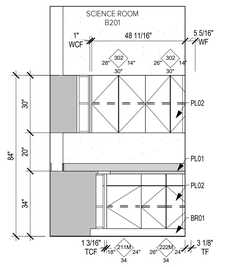
GENERAL CASEWORK NOTES



11 CASEWORK ELEVATION EAST
3/8" = 1'-0"



10 CASEWORK ELEVATION NORTH
3/8" = 1'-0"



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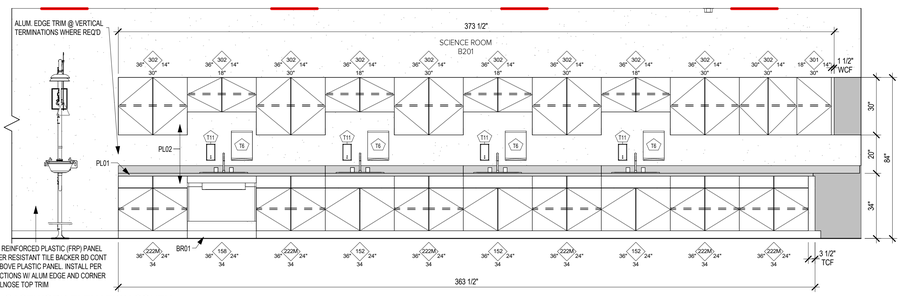
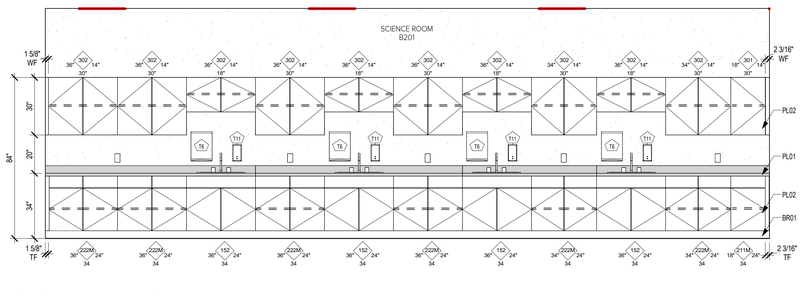


8 CASEWORK ELEVATION SOUTH
3/8" = 1'-0"



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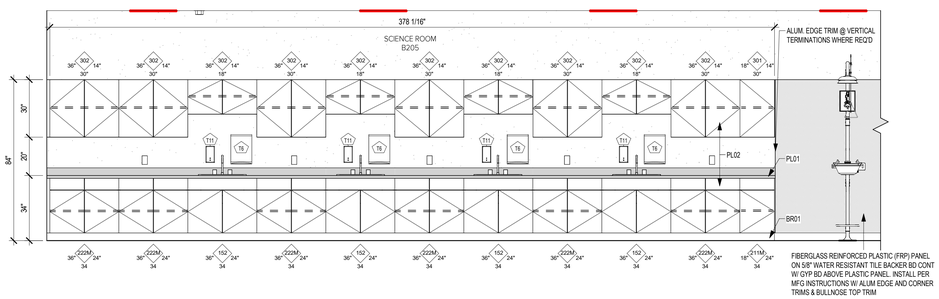
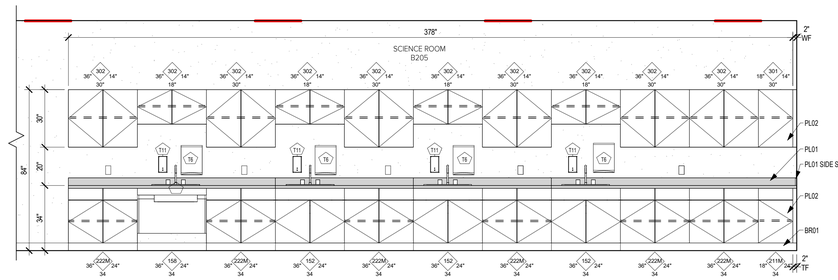
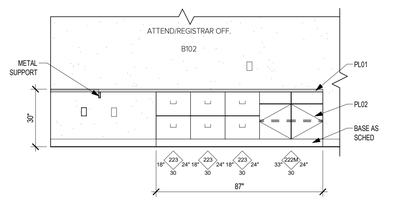
3/8" = 1'-0"



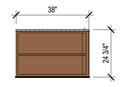
6 CASEWORK ELEVATION - TYPICAL SCIENCE CLASSROOM
3/8" = 1'-0"



5 CASEWORK ELEVATION - TYPICAL SCIENCE CLASSROOM
3/8" = 1'-0"



4 CASEWORK ELEVATION SOUTH
3/8" = 1'-0"



3 MILLWORK ELEVATION - SHELF "B"
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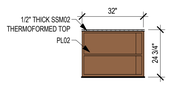

2 MILLWORK ELEVATION - SHELF "A"
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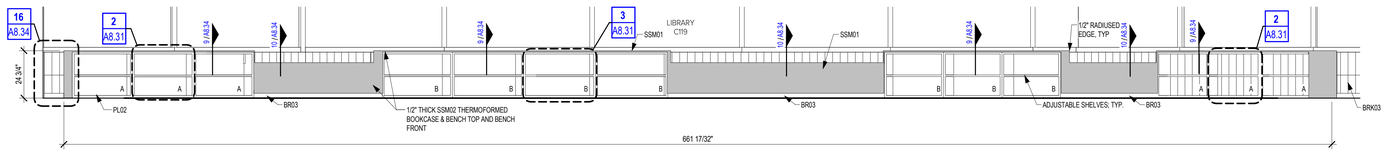

1 CASEWORK ELEVATION WEST
3/8" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH 29134 STATE OF TEXAS
7/15/2026

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CASEWORK LEGENDS AND ELEVATIONS

VOLUME 01

Job No.	Sheet No.
03802-04-01	A8.31
Drawn By: CB, RS	
Date: 07.15.26	

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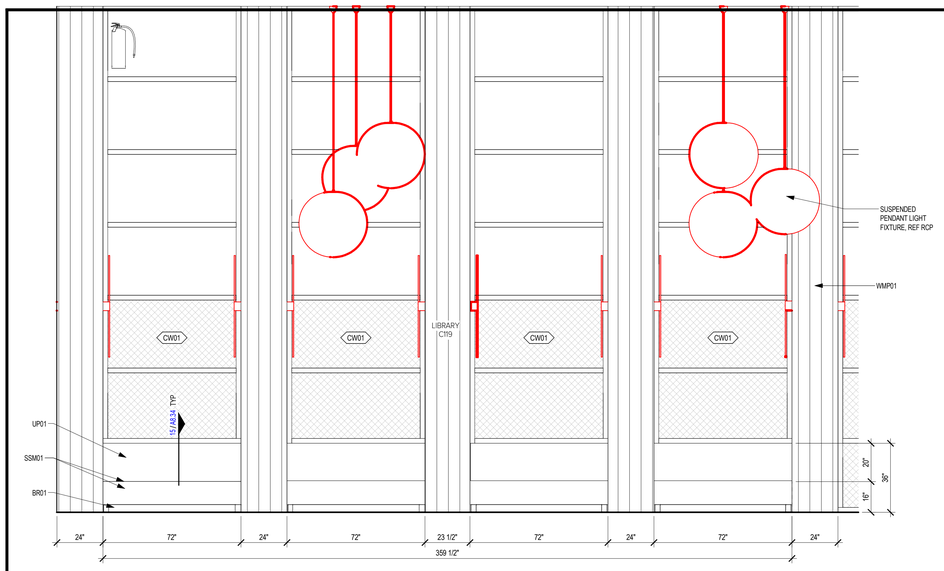

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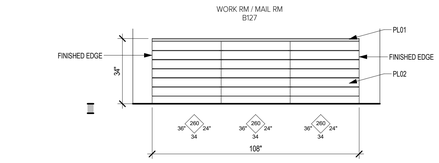
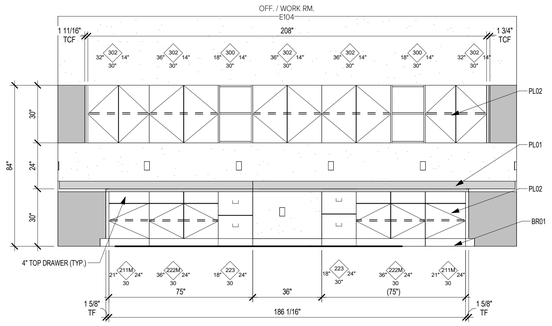


18 CASEWORK ELEVATION SOUTH
3/8" = 1'-0"



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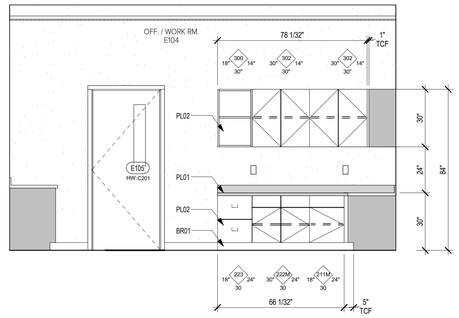
3/8" = 1'-0"



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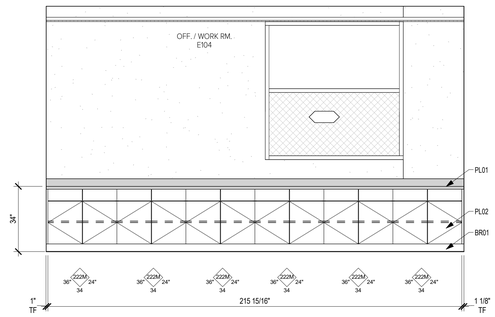

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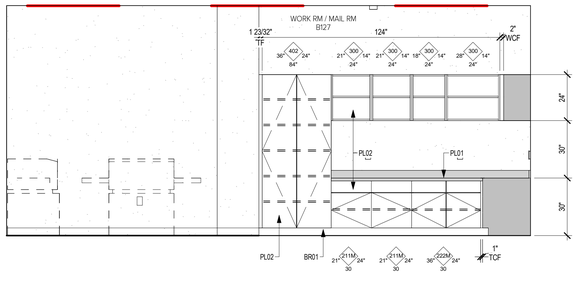

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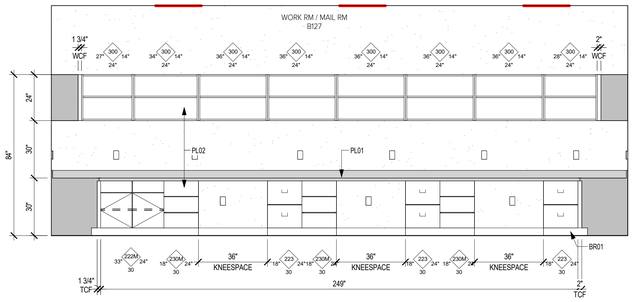

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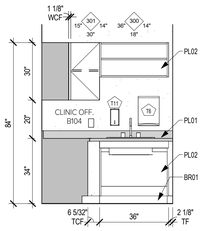

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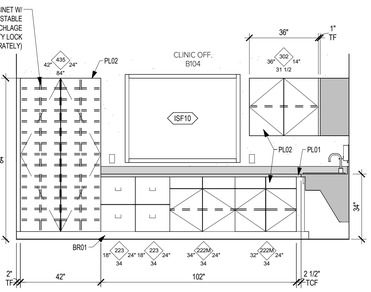
3/8" = 1'-0"



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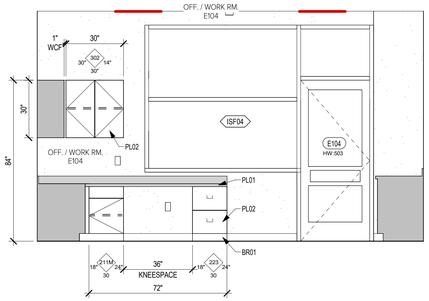
3/8" = 1'-0"



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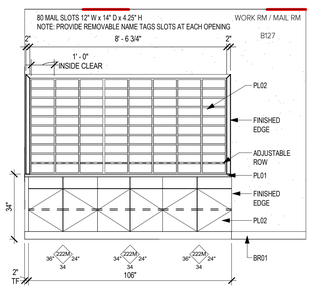

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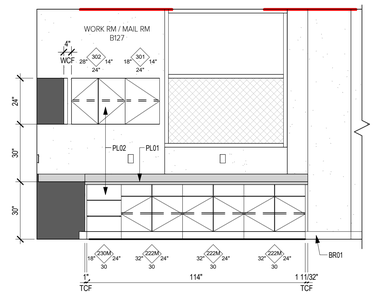

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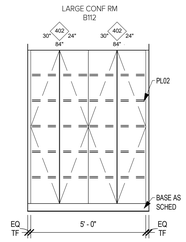

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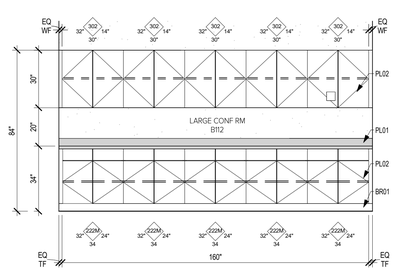

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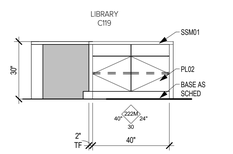

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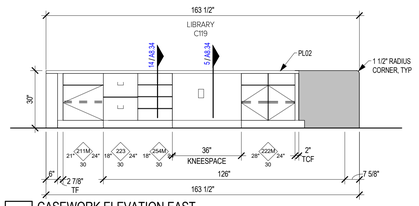

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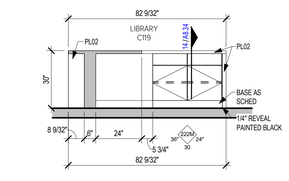

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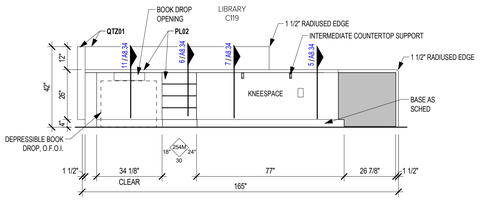

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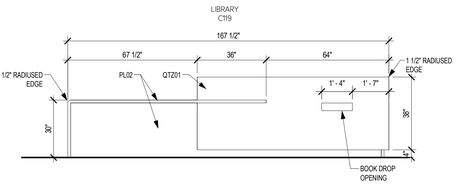

1 CASEWORK ELEVATION EAST
3/8" = 1'-0"

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

Revision / Date

REGISTERED ARCHITECT CARTLIN MUNCH 29 STATE OF TEXAS

7/15/2026

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CASEWORK LEGENDS AND ELEVATIONS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A8.32
Drawn By: CB, RS	
Date: 07.15.26	

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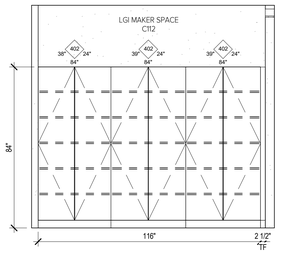

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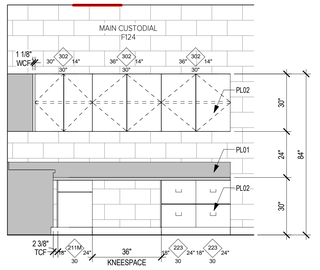

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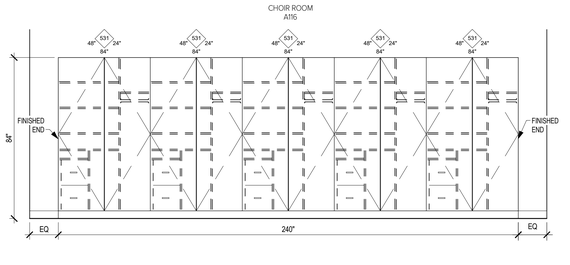

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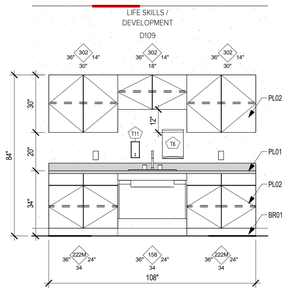

18 CASEWORK ELEVATION NORTH
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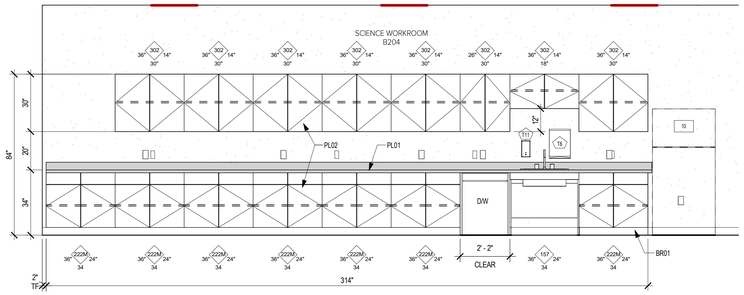

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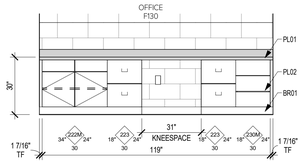

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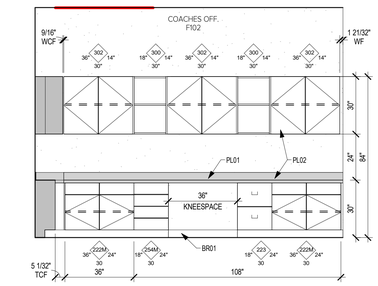

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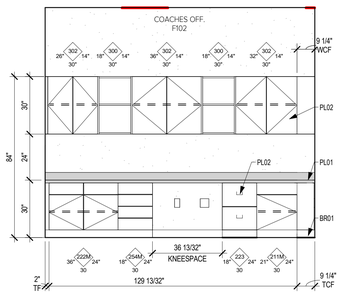

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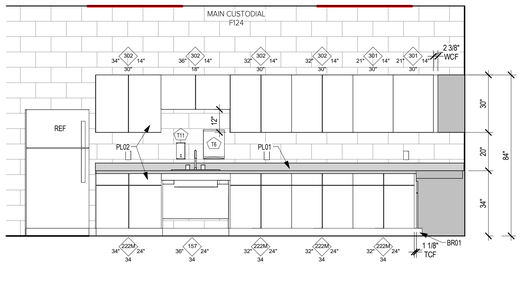

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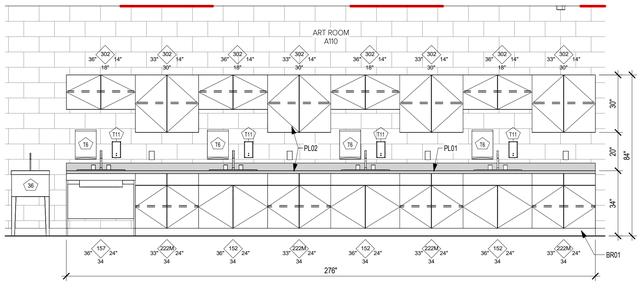

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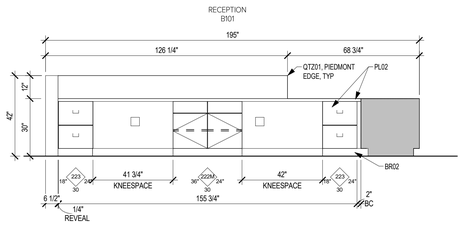

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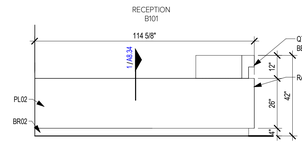

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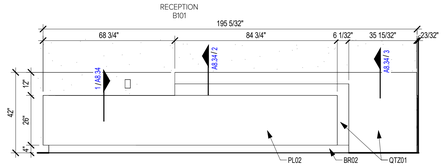

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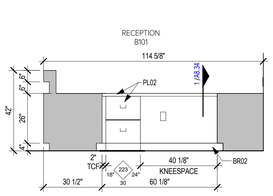

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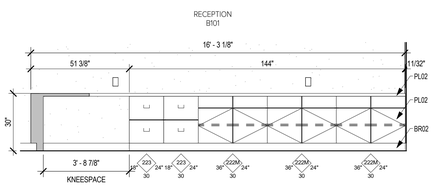
3/8" = 1'-0"



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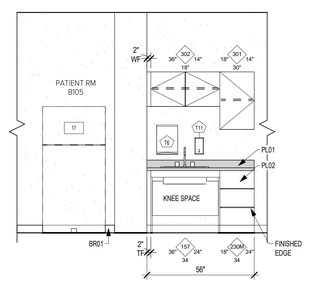

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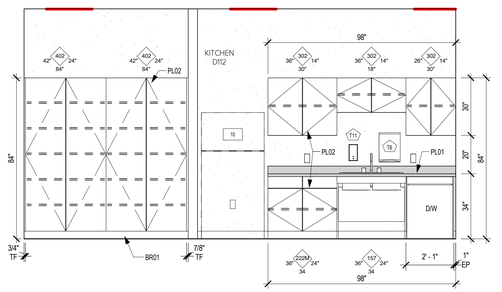

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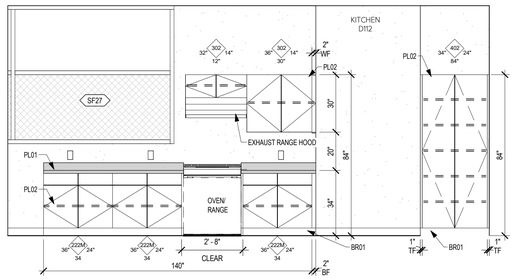
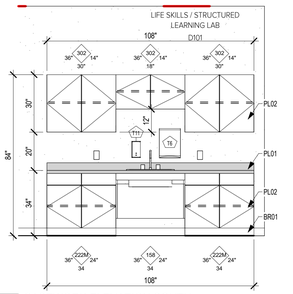
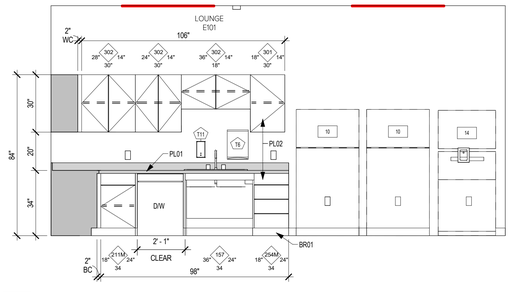


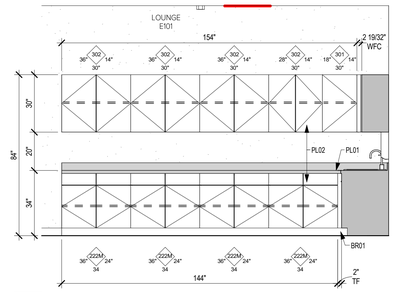
4 CASEWORK ELEVATION WEST
3/8" = 1'-0"



3 CASEWORK ELEVATION SOUTH
3/8" = 1'-0"



2 CASEWORK ELEVATION EAST
3/8" = 1'-0"



1 CASEWORK ELEVATION NORTH
3/8" = 1'-0"

Date
Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



7/15/2026

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CASEWORK LEGENDS AND ELEVATIONS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A8.33
Drawn By: CB, RS	
Date: 07.15.26	

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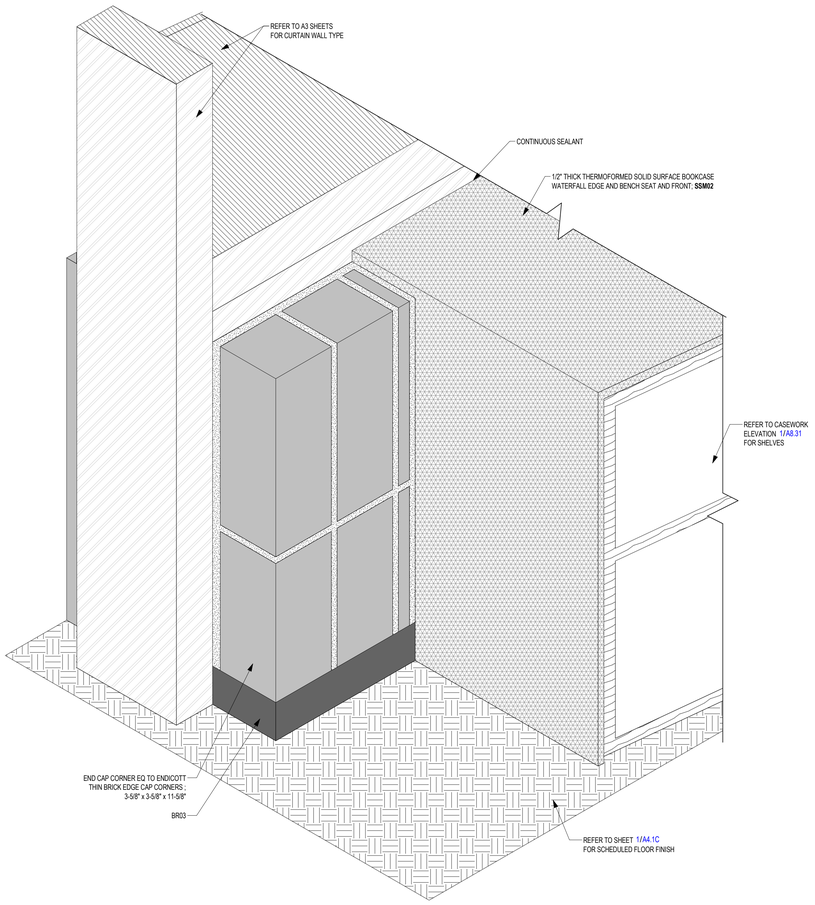
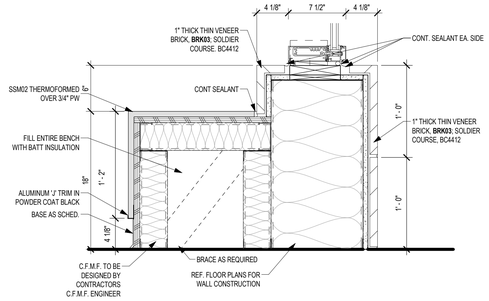
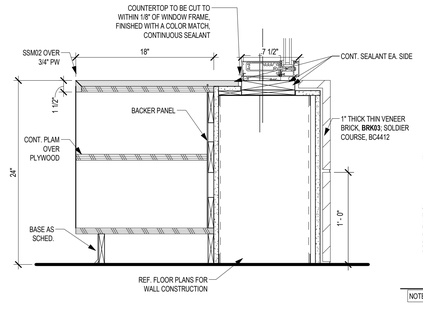


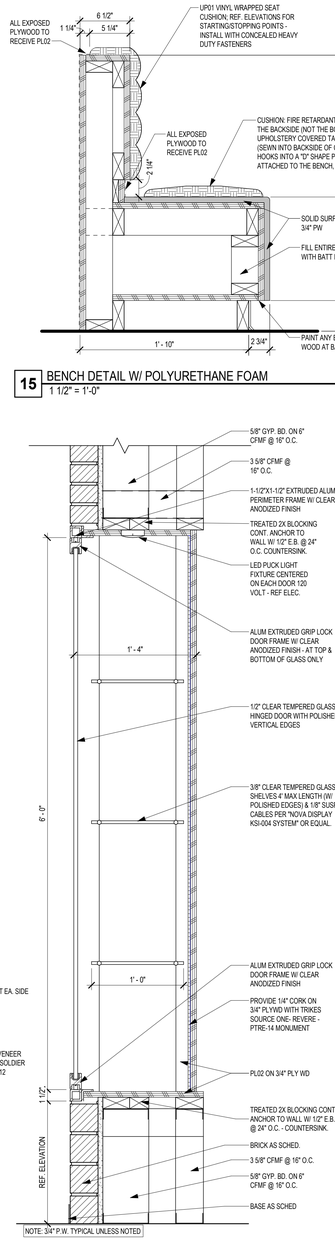
16 THIN BRICK CORNER AXON AT LIBRARY CURVED CURTAINWALL
3" = 1'-0"



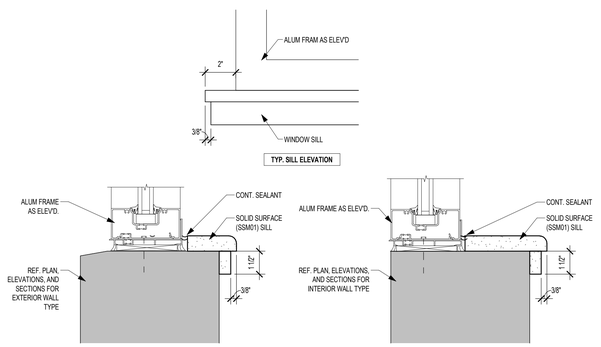
10 CURVED BENCH DETAIL
1 1/2" = 1'-0"



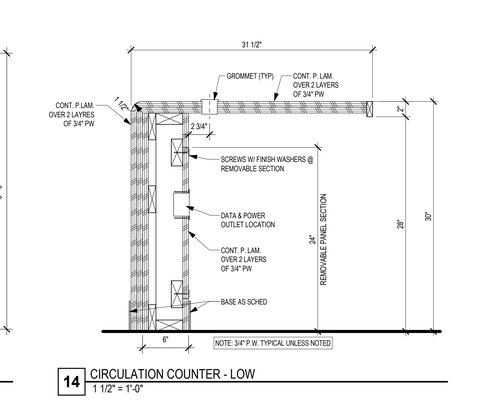
9 CURVED BENCH DETAIL W/ OPEN SHELF
1 1/2" = 1'-0"



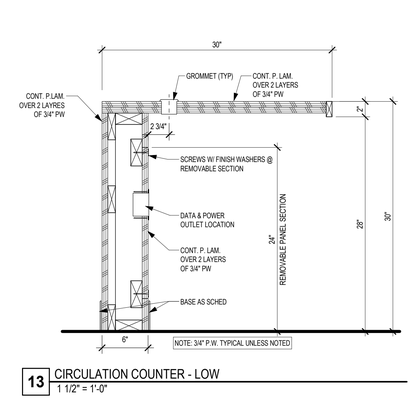
8 DISPLAY CASE 16" @ ICF WALL
1 1/2" = 1'-0"



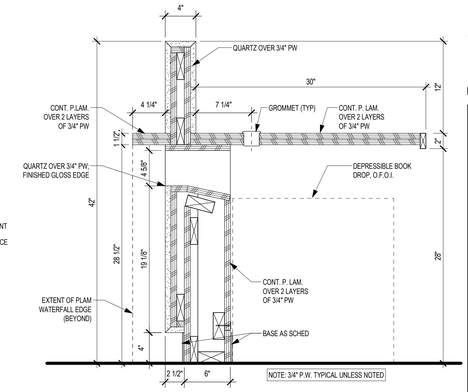
12 BENCH DETAIL WITH WOOD
3" = 1'-0"



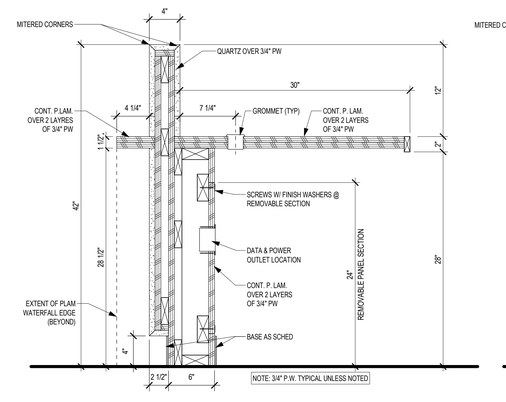
14 CIRCULATION COUNTER - LOW
1 1/2" = 1'-0"



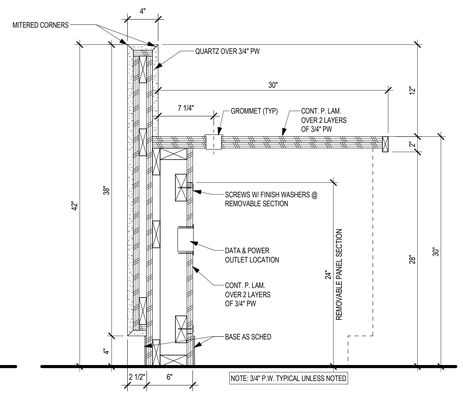
13 CIRCULATION COUNTER - LOW
1 1/2" = 1'-0"



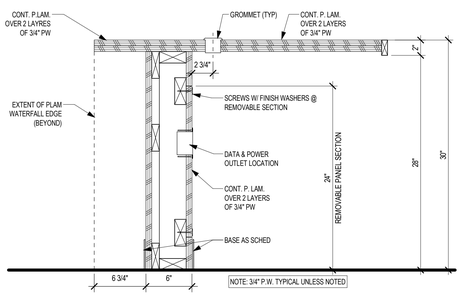
11 CIRCULATION COUNTER - HIGH
1 1/2" = 1'-0"



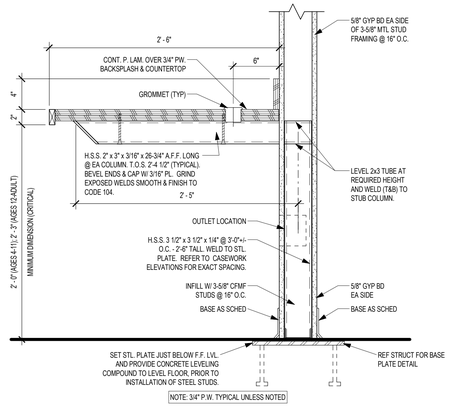
7 CIRCULATION COUNTER - HIGH
1 1/2" = 1'-0"



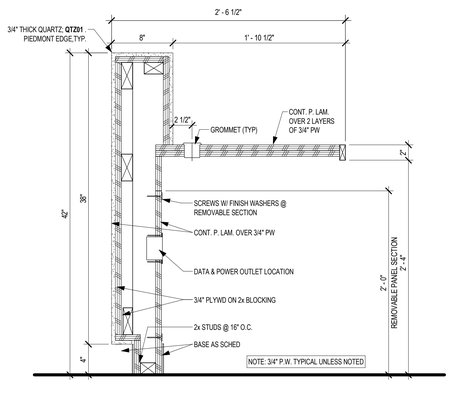
6 CIRCULATION COUNTER - HIGH
1 1/2" = 1'-0"



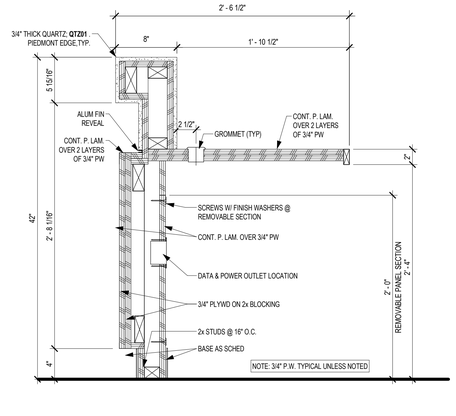
5 CIRCULATION COUNTER - LOW
1 1/2" = 1'-0"



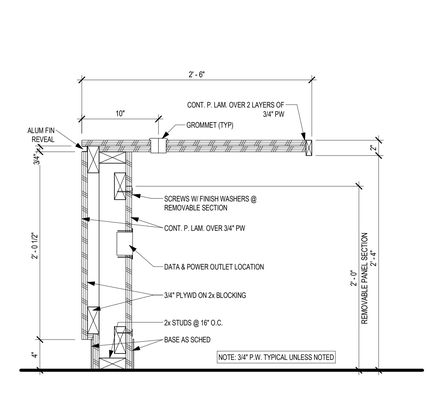
4 COMPUTER COUNTER @ GYP WALL
1 1/2" = 1'-0"



3 RECEPTION COUNTER - HIGH
1 1/2" = 1'-0"



2 RECEPTION COUNTER - HIGH
1 1/2" = 1'-0"



1 RECEPTION / CIRCULATION COUNTER - LOW
1 1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CARL J. MUNCH
29 STATE OF TEXAS
7/15/2026

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MISC MILLWORK DETAILS

VOLUME 01

Job No.	Sheet No.
00802-04-01	A8.34
Drawn By: CB	
Date: 07.15.26	

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Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_ARCH.rvt

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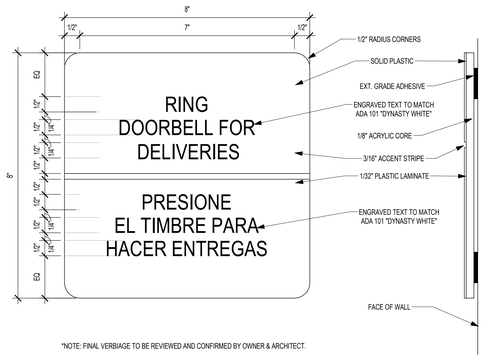
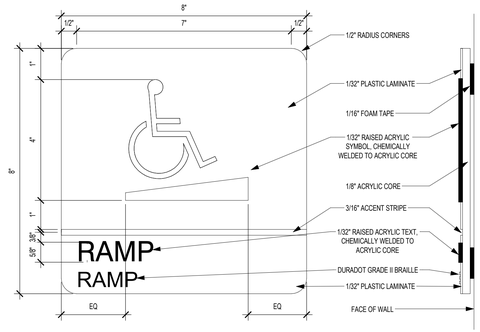
NOTES:
1. OWNER TO APPROVE AND COORDINATE SIGN TYPES, QUANTITY, AND FINAL LOCATION.
2. ROOM NUMBERS AND ROOM NAMES TO BE COORDINATE WITH OWNER.
3. NOT ALL SIGNS TO BE UTILIZED.

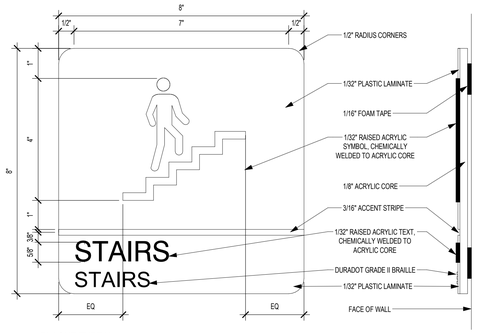


*NOTE: FINAL VERBIAGE TO BE REVIEWED AND CONFIRMED BY OWNER & ARCHITECT.

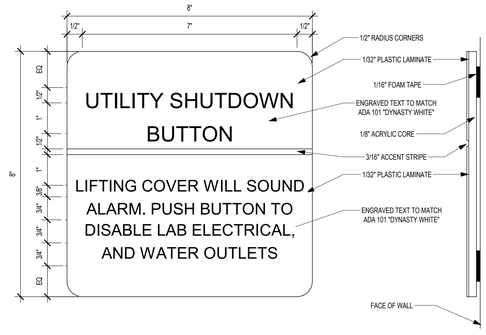
Q PLAQUE TYPE Q
6" = 1'-0"



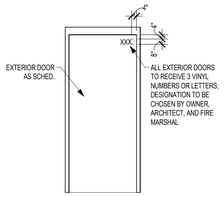
P PLAQUE TYPE P
6" = 1'-0"



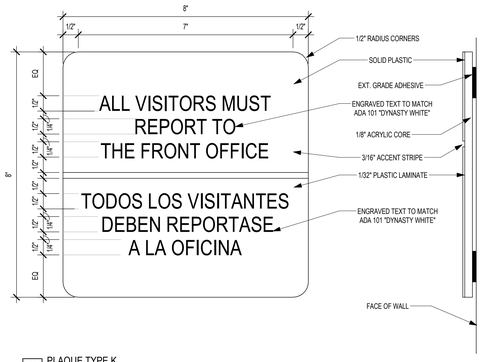
N PLAQUE TYPE N
6" = 1'-0"



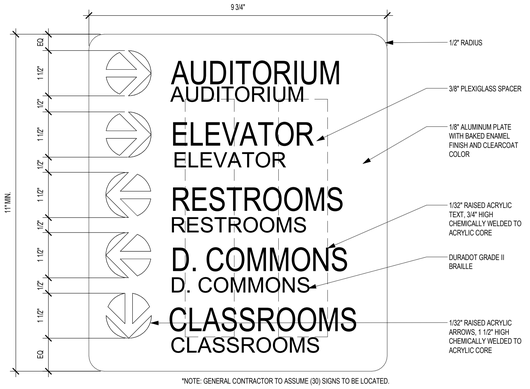
L PLAQUE TYPE L
6" = 1'-0"



17 EXTERIOR DOOR LABEL
6" = 1'-0"

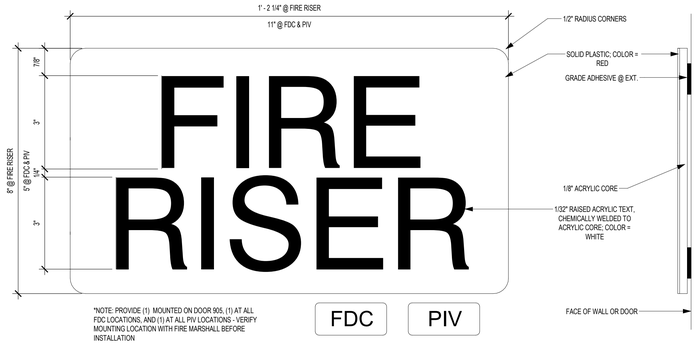


K PLAQUE TYPE K
6" = 1'-0"



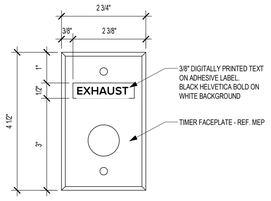
*NOTE: GENERAL CONTRACTOR TO ASSUME (30) SIGNS TO BE LOCATED.

J PLAQUE TYPE J
6" = 1'-0"

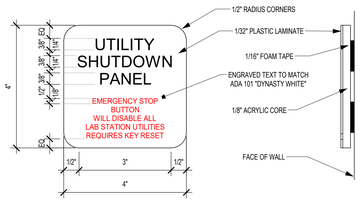


*NOTE: PROVIDE (1) MOUNTED ON DOOR 905, (1) AT ALL FDC LOCATIONS, AND (1) AT ALL PIV LOCATIONS. VERIFY MOUNTING LOCATION WITH FIRE MARSHALL BEFORE INSTALLATION

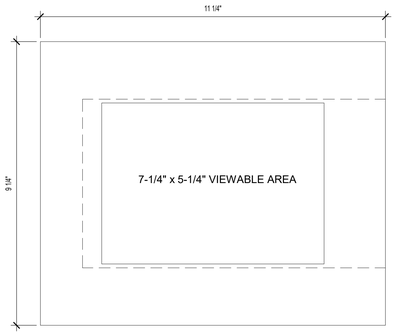
H PLAQUE TYPE H
6" = 1'-0"



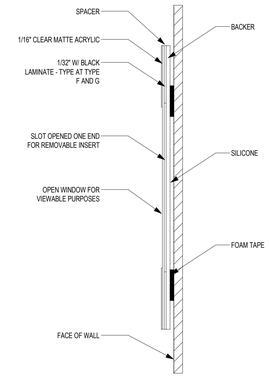
M PLAQUE TYPE M
6" = 1'-0"

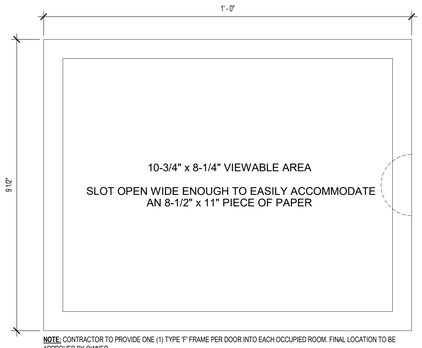


L1 PLAQUE TYPE L1
6" = 1'-0"



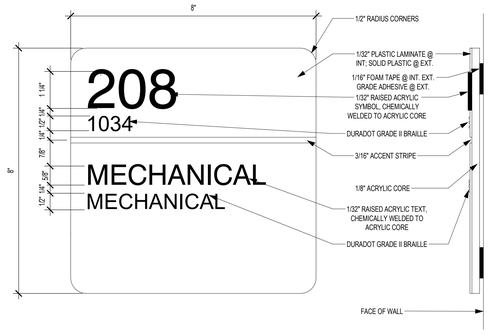
G PLAQUE TYPE G - ELEVATOR CERTIFICATE (1ST FLOOR ONLY)
6" = 1'-0"



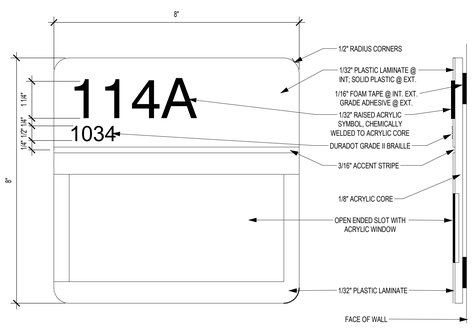


NOTE: CONTRACTOR TO PROVIDE ONE (1) TYPE 'F' FRAME PER DOOR INTO EACH OCCUPIED ROOM. FINAL LOCATION TO BE APPROVED BY OWNER.

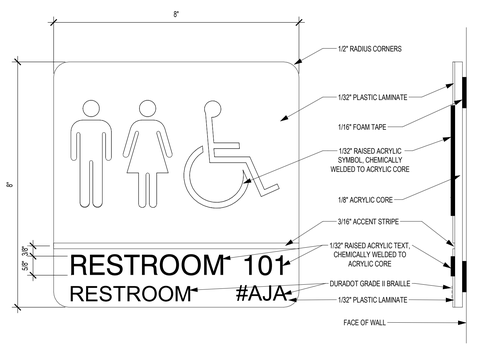
F PLAQUE TYPE F - EGRESS MAPS
6" = 1'-0"



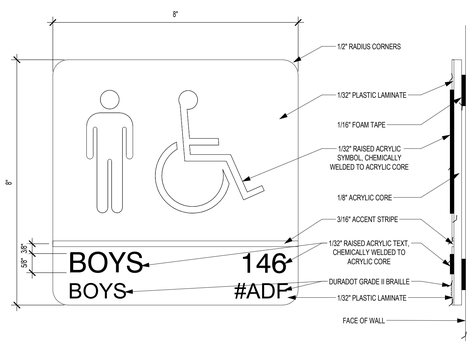
E PLAQUE TYPE E
6" = 1'-0"



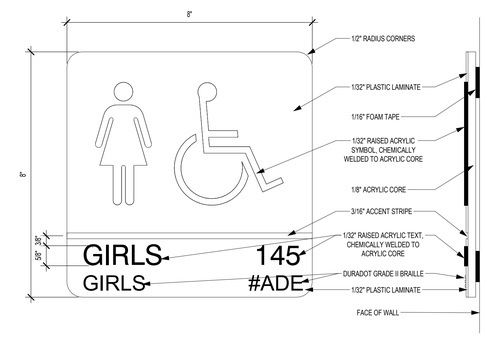
D PLAQUE TYPE D
6" = 1'-0"



C PLAQUE TYPE C
6" = 1'-0"



B PLAQUE TYPE B
6" = 1'-0"



A PLAQUE TYPE A
6" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT CAITLIN MUNCH STATE OF TEXAS
7/15/2026

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SIGNAGE TYPES & DETAILS
VOLUME 01

Job No.	Sheet No.
0/2602-04-01	A8.36
Drawn By: CB	
Date: 07.15.26	

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ROOM SIGNAGE SCHEDULE

NAME	NUMBER	DIST. ROOM NAME	DIST. ROOM NUM.	QUANTITY & TYPE
CORR	A100	CORRIDOR	---	
CONTROLLED VEST	A101	VESTIBULE	---	(1) TYPE K
VEST RR	A102	RESTROOM	---	
IDF	A103	IDF	---	(1) TYPE E
RESTROOM	A104	RESTROOM	---	(1) TYPE E
RESTROOM	A105	RESTROOM	---	(1) TYPE E
ELEC	A106	ELECTRICAL	---	(1) TYPE E
PERC/ENSE RM	A107	PERCUSSION	---	(1) TYPE D
CUST.	A108	CUSTODIAL	---	(1) TYPE E
TEACHER RR	A109	TEACHER RR	---	(1) TYPE E
ART ROOM	A110	ART	---	(1) TYPE D
KILN	A111	KILN	---	(1) TYPE D
ART STOR.	A112	STORAGE	---	(1) TYPE E
ART ROOM	A113	ART	---	(1) TYPE D
CHOIR STOR.	A114	STORAGE	---	(1) TYPE E
SHARED MUSIC LIBRARY	A115	MUSIC LIBRARY	---	(1) TYPE D
CHOIR ROOM	A116	CHOIR	---	(1) TYPE D
ORCHESTRA ROOM	A117	ORCHESTRA	---	(1) TYPE D
ORCH STOR.	A118	STORAGE	---	(1) TYPE E
BAND RM STOR.	A119	STORAGE	---	(1) TYPE E
SHARED ENSEMBLE	A120	ENSEMBLE	---	(1) TYPE D
BAND ROOM	A121	BAND ROOM	---	(1) TYPE D
BAND STOR.	A122	STORAGE	---	(1) TYPE E
FA SHARED MUSIC OFF.	A123	OFFICE	---	(1) TYPE D
CORR	A124	CORRIDOR	---	
SERVERY	A125		---	(1) TYPE D
RECEPTION	B101	RECEPTION	---	(1) TYPE D
ATTEND/REGISTRAR OFF.	B102	ATTENDANCE	---	(1) TYPE D
ISOLATION RM	B103	ISOLATION ROOM	---	(1) TYPE D
CLINIC OFF.	B104	OFFICE	---	(1) TYPE D
PATIENT RM	B105	CLINIC	---	(1) TYPE D
CORR	B106	CORRIDOR	---	
CLINIC STOR.	B107	STORAGE	---	(1) TYPE E
CLINIC RR	B108	RESTROOM	---	(1) TYPE E
CLINIC RR	B109	RESTROOM	---	(1) TYPE E
CORR	B110	CORRIDOR	---	
CORR	B111	CORRIDOR	---	
LARGE CONF RM	B112	CONFERENCE	---	(1) TYPE D
ADMIN STOR.	B113	STORAGE	---	(1) TYPE E
TESTING MATERIALS	B114	TESTING MATERIALS	---	(1) TYPE E
STAFF RR	B115	STAFF RESTROOM	---	(1) TYPE E
STAFF RR	B116	STAFF RESTROOM	---	(1) TYPE E
MDF 10x14	B117	MDF	---	(1) TYPE E
TEST STOR. / FUTURE OFF.	B118	TESTING MATERIALS	---	(1) TYPE D
MECH.	B119	MECHANICAL	---	(1) TYPE E
ELEC.	B121	ELECTRICAL	---	(1) TYPE E
STAFF RR	B122	STAFF RESTROOM	---	(1) TYPE E
STUDENT RR	B123	STUDENT RESTROOM	---	(1) TYPE E
OBSERV.	B124	OBSERVATION	---	(1) TYPE D
SPED STOR.	B125	STORAGE	---	(1) TYPE E
OT/PT TESTING	B126	OT/PT	---	(1) TYPE D
WORK RM / MAIL RM	B127	WORK ROOM	---	(1) TYPE D
PRINCIPALS OFF.	B128	OFFICE	---	(1) TYPE D
PRINCIPALS SEC	B129	SECRETARY	---	(1) TYPE D
COUNSELORS OFF.	B131	OFFICE	---	(1) TYPE D
ASST. PRINCIPALS OFF.	B132	OFFICE	---	(1) TYPE D
ITINERANT	B133	ITINERANT	---	(1) TYPE D
ADMIN CONF	B134	CONFERENCE	---	(1) TYPE D
CORR	B135	CORRIDOR	---	
SCIENCE ROOM	B201	SCIENCE ROOM	---	(1) TYPE D
CORR	B202	CORRIDOR	---	
IDF	B203	IDF	---	(1) TYPE E
SCIENCE WORKROOM	B204	SCIENCE WORKROOM	---	(1) TYPE D
SCIENCE ROOM	B205	SCIENCE ROOM	---	(1) TYPE D
SCIENCE ROOM	B206	SCIENCE ROOM	---	(1) TYPE D
ELEC.	B207	ELECTRICAL	---	(1) TYPE E
SCIENCE WORKROOM	B208	SCIENCE WORKROOM	---	(1) TYPE D
SCIENCE ROOM	B209	SCIENCE ROOM	---	(1) TYPE D
SCIENCE ROOM	B211	SCIENCE ROOM	---	(1) TYPE D
CORR	C100	CORRIDOR	---	
5TH - CR	C101	CLASSROOM	---	(1) TYPE D
5TH - CR	C102	CLASSROOM	---	(1) TYPE D
5TH - CR	C103	CLASSROOM	---	(1) TYPE D
STAIR	C105	STAIRS	---	(2) TYPE N
5TH - CR	C106	CLASSROOM	---	(1) TYPE D
5TH - CR	C107	CLASSROOM	---	(1) TYPE D
FLEX ROOM	C108	CLASSROOM	---	(1) TYPE D
FLEX ROOM	C108B	CLASSROOM	---	(1) TYPE D
CONTENT MASTERY	C109	CONTENT MASTERY	---	(1) TYPE D
MECH.	C111	MECHANICAL	---	(1) TYPE E
LGI MAKER SPACE	C112	MAKER SPACE	---	(1) TYPE D
RESTROOM	C113	RESTROOM	---	(1) TYPE E
RESTROOM	C114	RESTROOM	---	(1) TYPE E
CUST.	C115	CUSTODIAL	---	(1) TYPE E
RR	C116	STAFF RR	---	(1) TYPE E
STORAGE (5TH GRADE)	C117	STORAGE	---	(1) TYPE E
FLEX	C118	FLEX	---	(1) TYPE D
LIBRARY	C119	LIBRARY	---	(1) TYPE D
CORR	C120	CORRIDOR	---	
COURTYARD	C123		---	(1) TYPE D
BREEZEWAY	C124		---	(1) TYPE D
CORR	C200	CORRIDOR	---	
INTERVENTION	C201	INTERVENTION	---	(1) TYPE D
5TH - CR	C202	CLASSROOM	---	(1) TYPE D
5TH - CR	C203	CLASSROOM	---	(1) TYPE D
STAIR	C204	STAIRS	---	(2) TYPE N
5TH - CR	C206	CLASSROOM	---	(1) TYPE D
5TH - CR	C207	CLASSROOM	---	(1) TYPE D
5TH - CR	C208	CLASSROOM	---	(1) TYPE D
5TH - CR	C209	CLASSROOM	---	(1) TYPE D
5TH - CR	C211	CLASSROOM	---	(1) TYPE D
6TH - CR	C212	CLASSROOM	---	(1) TYPE D
RESTROOM	C213	RESTROOM	---	(1) TYPE E
RESTROOM	C214	RESTROOM	---	(1) TYPE E
CUST.	C215	CUSTODIAL	---	(1) TYPE E
STAFF RR	C216	STAFF RESTROOM	---	(1) TYPE E
RESOURCE / CR	C217	RESOURCE	---	(1) TYPE D
LEARNING STAIR	C218	LEARNING STAIRS	---	(2) TYPE N
ELEV	C219	ELEVATOR	---	(1) TYPE G
LIBRARY	C220	LIBRARY	---	(1) TYPE D
MECH.	C231	MECHANICAL	---	(1) TYPE E
MECH.	C240	MECHANICAL	---	(1) TYPE E
CORR	C250	CORRIDOR	---	
LIFE SKILLS / STRUCTURED LEARNING LAB	D101	LIFE SKILLS / STRUCTURED LEARNING LAB	---	(1) TYPE D
CORR	D102	CORRIDOR	---	
ADAPTIVE BEHAVIOR	D103	ADAPTIVE BEHAVIOR	---	(1) TYPE D
MOTOR LAB	D105	MOTOR LAB	---	(1) TYPE D
SPEECH THERAPY	D106	SPEECH THERAPY	---	(1) TYPE D
DIAG	D107	DIAGNOSTICS	---	(1) TYPE D
SCHOOL PSYCOLOGY	D108	SCHOOL PSYCOLOGY	---	(1) TYPE D
LIFE SKILLS / DEVELOPMENT	D109	LIFE SKILLS / DEVELOPMENT	---	(1) TYPE D
CORR	D110	CORRIDOR	---	
RR / CHANGING	D111	RESTROOMS	---	(1) TYPE E
KITCHEN	D112	KITCHEN	---	(1) TYPE Q
CORR	D113	CORRIDOR	---	
SCIENCE WORKROOM	D201	SCIENCE WORKROOM	---	(1) TYPE D
IDF	D202	IDF	---	(1) TYPE E
SCIENCE ROOM	D203	SCIENCE ROOM	---	(1) TYPE D
SCIENCE ROOM	D204	SCIENCE ROOM	---	(1) TYPE D
CORR	D205	CORRIDOR	---	
ELEC.	D206	ELECTRICAL	---	(1) TYPE E
SCIENCE WORKROOM	D207	SCIENCE WORKROOM	---	(1) TYPE D
SCIENCE ROOM	D208	SCIENCE ROOM	---	(1) TYPE D
LOUNGE	E101	LOUNGE	---	(1) TYPE E
RR	E102	RESTROOM	---	(1) TYPE E
STORAGE (6TH GRADE)	E103	STORAGE	---	(1) TYPE E
OFF. / WORK RM.	E104	OFFICE	---	(1) TYPE D
AV STOR.	E105	STORAGE	---	(1) TYPE E
CONTENT MASTERY	E106	CONTENT MASTERY	---	(1) TYPE D
RESTROOM	E107	RESTROOM	---	(1) TYPE C
STAFF RR	E108	STAFF RESTROOM	---	(1) TYPE C
CUST.	E109	CUSTODIAL	---	(1) TYPE E
RESTROOM	E111	RESTROOM	---	(1) TYPE E
MECH.	E112	MECHANICAL	---	(1) TYPE E
CORR	E113	CORRIDOR	---	(1) TYPE E
FLEX ROOM	E114	CLASSROOM	---	(1) TYPE D
FLEX ROOM	E114B	CLASSROOM	---	(1) TYPE D
6TH - CR	E115	CLASSROOM	---	(1) TYPE D
6TH - CR	E116	CLASSROOM	---	(1) TYPE D
STAIR	E117	STAIRS	---	(2) TYPE N
6TH - CR	E118	CLASSROOM	---	(1) TYPE D
6TH - CR	E119	CLASSROOM	---	(1) TYPE D
6TH - CR	E120	CLASSROOM	---	(1) TYPE D
STAIR	E121	STAIRS	---	(2) TYPE N
CORR	E122	CORRIDOR	---	
CORR	E200	CORRIDOR	---	
CORR	E201	CORRIDOR	---	

ROOM SIGNAGE SCHEDULE

NAME	NUMBER	DIST. ROOM NAME	DIST. ROOM NUM.	QUANTITY & TYPE
RESOURCE / CR	E205	RESOURCE	---	(1) TYPE D
RESTROOM	E206	RESTROOM	---	(1) TYPE C
RESTROOM	E207	RESTROOM	---	(1) TYPE C
STAFF RR	E208	STAFF RESTROOM	---	(1) TYPE C
CUST.	E209	CUSTODIAL	---	(1) TYPE E
MECH.	E210	MECHANICAL	---	(1) TYPE E
6TH - CR	E213	CLASSROOM	---	(1) TYPE D
6TH - CR	E214	CLASSROOM	---	(1) TYPE D
6TH - CR	E215	CLASSROOM	---	(1) TYPE D
6TH - CR	E216	CLASSROOM	---	(1) TYPE D
STAIR	E217	STAIRS	---	(2) TYPE N
6TH - CR	E218	CLASSROOM	---	(1) TYPE D
6TH - CR	E219	CLASSROOM	---	(1) TYPE D
INTERVENTION	E220	INTERVENTION	---	(1) TYPE D
MECH.	E221	MECHANICAL	---	(1) TYPE E
STAIR	E222	STAIRS	---	(2) TYPE N
CORR	E225	CORRIDOR	---	
ASST. PRINC. OFF.	E231	ASST. PRINC. OFF.	---	(1) TYPE D
COUNS. OFF.	E232	COUNS. OFF.	---	(1) TYPE D
WAITING AREA	E233	WAITING AREA	---	(1) TYPE D
SMALL ADMIN CONFERENCE	E234	CONFERENCE	---	(1) TYPE E
CORR	F101	CORRIDOR	---	
COACHES OFF.	F102	OFFICE	---	(1) TYPE D
CORR	F103	CORRIDOR	---	
PE STOR.	F104	STORAGE	---	(1) TYPE E
GYMNASIUM	F105	GYMNASIUM	---	(1) TYPE D
CIRC.	F105.1	GYMNASIUM	---	
DINING STOR.	F106	STORAGE	---	(1) TYPE E
RESTROOM	F108	RESTROOM	---	(1) TYPE C
RESTROOM	F109	RESTROOM	---	(1) TYPE C
IDF	F110	IDF	---	(1) TYPE E
CUST.	F111	CUSTODIAL	---	(1) TYPE E
DINING AREA	F112	CAFETERIA	---	(1) TYPE D
STOR.	F113	STORAGE	---	(1) TYPE E
PLATFORM	F114	PLATFORM	---	
SOUND	F115	SOUND	---	(1) TYPE E
RAMP	F116	RAMP	---	(1) TYPE P
TABLE+CHAIR STOR.	F118	STORAGE	---	(1) TYPE E
CORR	F119	CORRIDOR	---	
KITCHEN	F120	KITCHEN	---	(1) TYPE E
MAIN MECHANICAL	F121	MECHANICAL	---	(1) TYPE E
RISER	F122	RISER	---	(1) TYPE H
MAIN CUSTODIAL	F124	CUSTODIAL	---	(1) TYPE E
MAIN ELECTRICAL	F125	ELECTRICAL	---	(1) TYPE E
BOILER	F126	BOILER	---	(1) TYPE E
CUST.	F127	CUSTODIAL	---	(1) TYPE E
COOLER	F128	COOLER	---	
FREEZER	F129	FREEZER	---	
OFFICE	F130	OFFICE	---	(1) TYPE D
TOILET	F131	STAFF RESTROOM	---	(1) TYPE E
SERVERY	F132	SERVERY	---	(1) TYPE D
DRY STORAGE	F133	DRY STORAGE	---	
STAFF RR	F134	STAFF RESTROOM	---	
CORR	F135	CORRIDOR	---	
CORR	F136	CORRIDOR	---	
CORR	F137	CORRIDOR	---	
GYM RR	F138	RESTROOM	---	(1) TYPE D
CORR	F139	CORRIDOR	---	
MECH.	F202	MECHANICAL	---	(1) TYPE E

NOTES:
1. OWNER TO APPROVE AND COORDINATE SIGN TYPES, QUANTITY, AND FINAL LOCATION.
2. ROOM NUMBERS AND ROOM NAMES TO BE COORDINATE WITH OWNER.
3. NOT ALL SIGNS TO BE UTILIZED.

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CAITLIN MUNCH
29134
STATE OF TEXAS
7/15/2026

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ROOM SIGNAGE SCHEDULE

PACKAGE VOLUME 01

Job No. 03802-04-01	Sheet No. A8.37
Drawn By: CB	
Date: 07.15.26	

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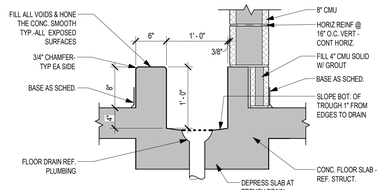
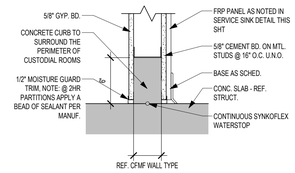
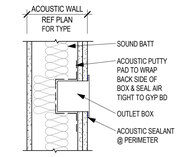


14 TYP. LAUNDRY TRENCH SECTION
1" = 1'-0"

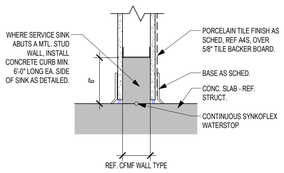


NOTE: CONCRETE CURB SHALL STOP 4" SHORT OF ANY DOOR FRAME AT EACH SIDE TO ENSURE NO EXPOSED CONCRETE SHALL BE VISIBLE. CONFIRM LOCATIONS OF CURB AT RESTROOMS AND IDFS WITH ARCHITECT & COORDINATE CURB WITH PLUMBING INSTALLATION REQUIREMENTS AND COLUMNS.

13 TYPICAL CURB DETAIL @ ALL CUSTODIALS W/ CFMF
1 1/2" = 1'-0"

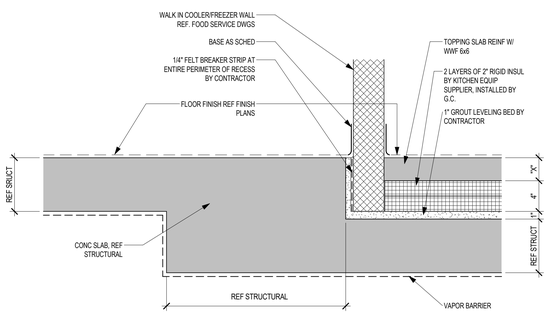


12 ACOUSTIC SEAL @ OUTLET DTL
1 1/2" = 1'-0"

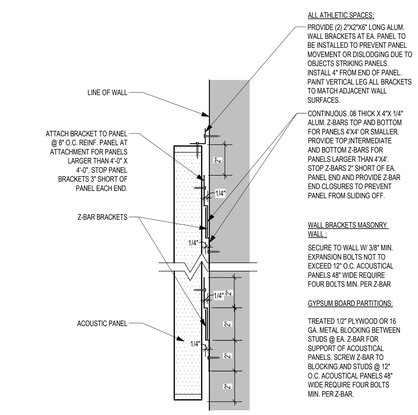


NOTE: CONCRETE CURB SHALL STOP 4" SHORT OF ANY DOOR FRAME AT EACH SIDE TO ENSURE NO EXPOSED CONCRETE SHALL BE VISIBLE. CONFIRM LOCATIONS OF CURB AT RESTROOMS AND IDFS WITH ARCHITECT & COORDINATE CURB WITH PLUMBING INSTALLATION REQUIREMENTS AND COLUMNS.

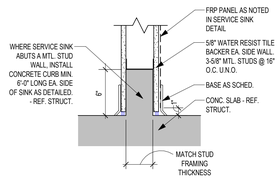
11 TYPICAL CURB DETAIL @ ALL RESTROOMS W/ CFMF
1 1/2" = 1'-0"



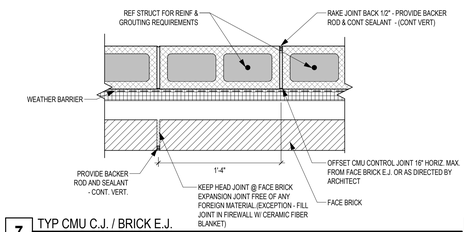
10 DETAIL - COOLER / FREEZER SLAB
1 1/2" = 1'-0"



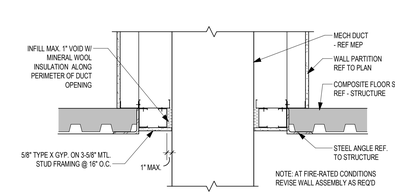
9 TYP DETAIL OF ACOUSTIC WALL PANEL CONNECTION
3" = 1'-0"



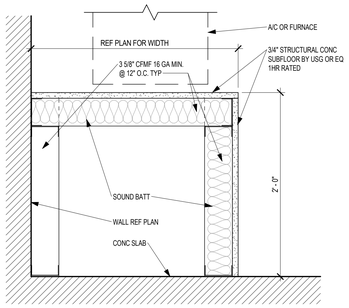
8 TYPICAL CURB DETAIL @ SERVICE SINK
1 1/2" = 1'-0"



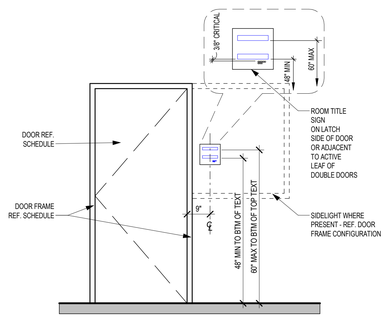
7 TYP CMU C.J. / BRICK E.J.
1 1/2" = 1'-0"



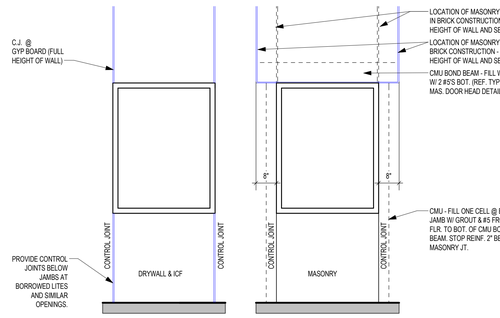
6 TYP DUCT DRAFT STOPPING DETAIL
1" = 1'-0"



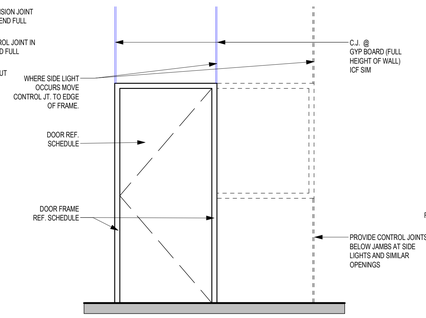
5 AC / FURNACE PLATFORM
1 1/2" = 1'-0"



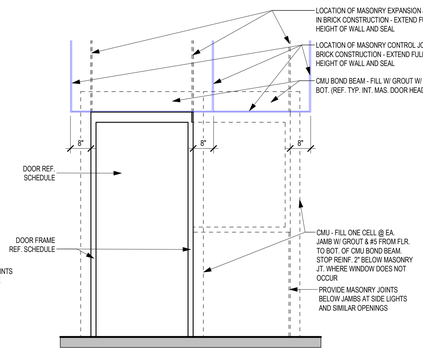
4 TYP SIGNAGE LOCATION
1/2" = 1'-0"



3 TYP CONTROL JOINT @ WINDOW FRAME - MASONRY, DRYWALL & ICF
1/2" = 1'-0"



2 TYP CONTROL JOINT @ DOOR FRAME - DRY WALL & ICF
1/2" = 1'-0"



1 TYP CONTROL JOINT @ DOOR FRAME- MASONRY
1/2" = 1'-0"

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED ARCHITECT
CARL LIMMACH
29 914
STATE OF TEXAS
7/15/2026

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TYPICAL DETAILS
VOLUME 01

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Sheet No. A9.01
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Date: 07.15.26

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TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

VOLUME 02 - FOOD SERVICE, FIRE PROTECTION, PLUMB, MECH, ELEC, TECH, A/V, & THEATER

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Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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COVER SHEET - VOLUME 02

VOLUME 02

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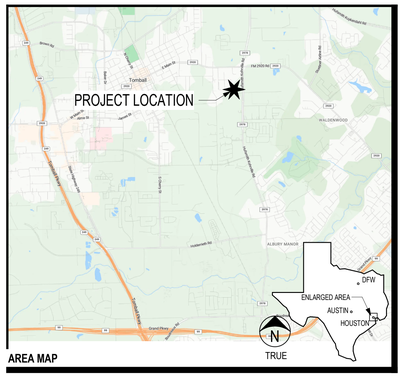
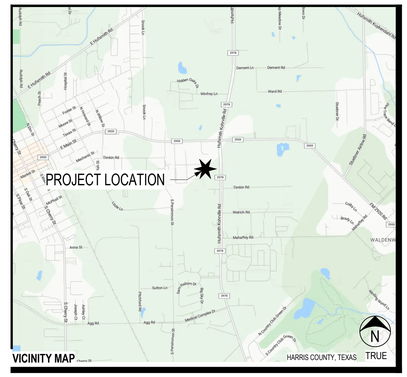


AREA MAP



VICINITY MAP

ALTERNATE #1:
1A: PROVIDE ROTARY-SCREW WATER CHILLERS AS MANUFACTURED BY CARRIER CORPORATION AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.
1B: PROVIDE ROTARY-SCREW WATER CHILLERS AS MANUFACTURED BY JCI/YORK CORPORATION AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.

ALTERNATE #2:
2A: PROVIDE MODULAR CENTRAL-STATION AIR-HANDLING UNITS AS MANUFACTURED BY CARRIER AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.
2B: PROVIDE MODULAR CENTRAL-STATION AIR-HANDLING UNITS AS MANUFACTURED BY JCI/YORK AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF TRANE.

ALTERNATE #3: PROVIDE NEW DDC BUILDING MANAGEMENT SYSTEM BY UNIFY AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF AUTOMATED LOGIC (ALC).

ALTERNATE #4: PROVIDE PEX FOR DOMESTIC HOT AND COLD WATER PIPING FOR ALL PIPING 1-1/2" AND SMALLER AS SPECIFIED AND AS SHOWN ON THE DRAWINGS IN LIEU OF HARD DRAWN COPPER.

ALTERNATE #5: PROVIDE STRIPING WITHIN FIRE TURNING CIRCLE AS SPECIFIED AND AS SHOWN ON THE AS DRAWING SHEETS.

ALTERNATES

AB	ANCHOR BOLT
A/C	AIR CONDITIONER
ACC	ACCESSIBLE
ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ADA	AMERICANS WITH DISABILITES ACT / ADA STANDARDS FOR ACCESSIBLE DESIGN (LATEST VERSION)
ADDNL	ADDITIONAL
ADJ	ADJUSTABLE
ADH	ADHESIVE/ADHERE
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AGRICULTURE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACOUSTICAL PANELS
AP	ASSISTANT PRINCIPAL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	BEYOND
B/B	BACK TO BACK
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BASE, PORCELAIN TILE
BR	BASE, RUBBER
BRES	BASE, RESINOUS INTEGRAL
BRG	BEARING
BRK	BRICK
BRV	BASE, RUBBER VENTED
BTC	BASE, TILE CERAMIC
BTZP	BASE, TERRAZZO PRECAST
BS	BOTH SIDES
BTWN	BETWEEN
BW	BOTH WAYS
BWD	BASE, WOOD
C/C	CENTER TO CENTER
CAB	CABINET
CCD	COILING COUNTER DOOR
CCPS	CERAMIC CLADDING PANEL SYSTEM
CDW	CUSTOM DIGITAL WALLCOVERINGS
CDAP	CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CFMF	COLD-FORMED METAL FRAMING
CH	CHANNEL
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTRD	CENTERED
CO	CLEAN OUT/CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONF	CONFIGURATIONS / CONFERENCE
CONN(S)	CONNECTION(S)
CONT	CONTINUOUS
COORD	COORDINATE
COP	CONCRETE (POLISHED)
CORR	CORRIDOR
COS	CONCRETE SEALED
CPT	CARPET, SHEET
CPY	CANOPY
CR	CLASSROOM
CS	CAST STONE
CSM	CONCRETE STONE MASONRY
CU	CONDENSING UNIT
CUST	CUSTODIAN
CT	CARPET, TILED
CTE	CAREER TRAINING ED
CTRL	CONTROL
CW	CURTAIN WALL
CWF	CUSTOM WINDOW FILM
DBL	DOUBLE
DET	DETAIL
DH	DOOR HARDWARE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EBWS	EPOXY BASED WALL SYSTEM
ED	EDUCATION
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EPNT	EPOXY PAINT
EQ	EQUAL (EQUALLY)
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTNG	EXTINGUISHER
F/F	FACE TO FACE
FC	FURRING CHANNEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER (SURFACE MOUNT)
FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET (SEMI-RECESSED)
FIN	FINISHED
FIN FLR	FINISHED FLOOR
FL	FLUSH (FLUSHED)
FLR	FLOOR
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM FIRESTALL REINFORCED PANELING
FRT	FIRE RETARDANT TREATED
FRTW	FIRE RETARDANT TREATED WOOD
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRAB BAR / GRADE BEAM
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GRF	GROUND FACE CMU (BURNISHED)
GUT	GUTTER
GYM	GYMNASIUM
GYP	GYPSUM
HB	HOSE BIB
HDWD	HARD WOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTILATION, & A/C
ICF	INSULATED CONCRETE FORMS / INSULATED CONCRETE FORMING
IDF	INTERMEDIATE DISTRIBUTION FRAME
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
JST(S)	JOIST(S)
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
LEPC	LOCAL EMERGENCY PLANNING COMMITTEE
LONG	LONGITUDINAL
LVT	LUXURY VINYL TILE
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MCM	METAL COMPOSITE MATERIAL
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURER
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	METAL WALL PANELS
MPF	MULTI-PURPOSE FACILITY
MSK	MOP SINK
MS	METAL SOFFIT
MSL	MEAN SEA LEVEL
MTL	METAL
NB	NO BASE
NF	NO FINISH
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NATURAL STONE
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANTS / OCCUPANCY
OCEW	ON CENTER EACH WAY
OCD	OVERHEAD COILING DOOR
OCG	OVERHEAD COILING GRILLE
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD
OPP	OPPOSITE
OS	OVERFLOW SCUPPER
PC	PRECAST CONCRETE
PCP	PORTLAND CEMENT PLASTER
PEMB	PRE-ENGINEERED METAL BUILDING
PERIM	PERIMETER
PERP	PERPENDICULAR
PLA	PLATE
PL	PLASTIC LAMINATE
PLP	PLASTIC LAMINATE PANEL SYSTEM
PNT	PAINT
PR	PRACTICE ROOM
PREFN	PREFINISHED
PREP	PREPARATION
PROJ	PROJECTION
PS	PROJECTION SCREEN
PT	POINT
PW	PLYWOOD
QTZ	QUARTZ SURFACING
R	RISER
RAD	RADIUS
RAFF	RESILIENT ATHLETIC FLUID FLOORING
RAFP	RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS	RUBBER FLOORING SHEET
RAFV	RESILIENT ATHLETIC FLOORING VINYL
L	ANGLE
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
RES	RESINOUS
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
RT	RUBBER TILE
RTR	RUBBER TREADS AND RISERS
RTU	ROOFTOP UNIT
SB	SPLASH BLOCK
SCHED	SCHEDULE
SEC	SECURITY
SECT	SECTION
SF	STOREFRONT / SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SP	SPLASH PAN (METAL)
SPEC	SPECIFICATIONS
SPF	SPLIT-FACE CONCRETE MASONRY UNIT
SPS	SOLID POLYMER SURFACE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE
SVT	SOLID VINYL TILE
SYMM	SYMMETRICAL
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TAS	TEXAS ACCESSIBILITY STANDARDS (LATEST VERSION)
TB	TACK BOARD
TC	TILE, CERAMIC
TFIP	INTUMESCENT FIRE PROTECTION
TH	THRESHOLD
TLT	TOILET
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSF	TOP OF METAL STUD FRAMING
TOW	TOP OF WALL
TPC	TILE, PORCELAIN
TQ	TILE, QUARRY
TR	TREATED
TRAN	TRANSVERSE / TRANSPARENT
TRIM	METAL FLASHINGS AND COPINGS
TS	TACKABLE SURFACE
TYP	TYPICAL
TZ	TERRAZZO
TZP	TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT	TERRAZZO TILE
U	URINAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UP	UPHOLSTERY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VSF	VINYL SHEET FLOORING
W	WITH
WIN	WITHIN
WO	WITHOUT
WASH	WASH STATION
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER / WALL HYDRANT
WMP	WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS	MASONITE WOOD FLOORING
WOM	WALK-OFF MAT
WOT	WALK-OF TILE
WP	WORKPOINT
WT	WEIGHT
WWF	WELDED WIRE MESH (FABRIC)
XB	X-BRACING
>=	LARGER THAN OR EQUAL TO
<=	LESS THAN OR EQUAL TO

(NOT ALL ABBREVIATIONS MAY BE USED)

ABBREVIATIONS

VOLUME 01

GENERAL	
G1.11	COVER SHEET - VOLUME 01
G1.12	GENERAL DATA - VOLUME 01
G2.01	CODE ANALYSIS MASTER PLAN - LEVEL 01
G2.02	CODE ANALYSIS MASTER PLAN - LEVEL 02
G2.03	FIRE PROOFING PLAN - SECOND FLOOR ASSEMBLY
G2.04	FIRE PROOFING PLAN - ROOF PLAN
G3.01	ROOF, EXTERIOR WALL, & INTERIOR PARTITION TYPES
G3.02	TYPICAL INTERIOR PARTITION DETAILS
G3.03	TYPICAL INTERIOR PARTITION DETAILS
G3.04	WALL PENETRATIONS - GYP BD
G3.05	WALL PENETRATIONS - ACOUSTICAL
G3.06	WALL PENETRATIONS - CMU
G4.01	TEA COMPLIANCE
G5.01	SCHEDULE OF MATERIALS AND COLORS
G5.02	SCHEDULE OF MATERIALS AND COLORS
CIVIL	
C0.0	COVER SHEET
C0.1	PLAT 1 OF 3
C0.2	PLAT 2 OF 3
C0.3	PLAT 3 OF 3
C0.4	TOPOGRAPHIC SURVEY 1 OF 4 (FOR REFERENCE ONLY)
C0.5	TOPOGRAPHIC SURVEY 2 OF 4 (FOR REFERENCE ONLY)
C0.6	TOPOGRAPHIC SURVEY 3 OF 4 (FOR REFERENCE ONLY)
C0.7	TOPOGRAPHIC SURVEY 4 OF 4 (FOR REFERENCE ONLY)
C1.1	CITY OF TOMBALL GENERAL NOTES
C1.2	GENERAL NOTES
C1.3	OVERALL LAYOUT
C1.4	DEMOLITION PLAN
C2.1	STORM WATER POLLUTION PREVENTION PLAN
C2.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
C3.1	DIMENSION CONTROL & SIGNAGE PLAN (1 OF 2)
C3.2	DIMENSION CONTROL & SIGNAGE PLAN (2 OF 2)
C4.1	GRADING PLAN (1 OF 2)
C4.2	GRADING PLAN (2 OF 2)
C5.1	UTILITY PLAN -WATER & SANITARY (1 OF 2)
C5.2	UTILITY PLAN -WATER & SANITARY (2 OF 2)
C5.3	PLAN & PROFILE - 8" SANITARY SEWER
C6.1	UTILITY PLAN -STORM SEWER (1 OF 2)
C6.2	UTILITY PLAN -STORM SEWER (2 OF 2)
C7.1	DRAINAGE AREA MAP
C7.2	DRAINAGE CALCULATION
C7.3	DRAINAGE SERVICE AREA MAP (FOR REFERENCE ONLY)
C8.1	PAVING DETAILS (1 OF 3)
C8.2	PAVING DETAILS (2 OF 3)
C8.3	PAVING DETAILS (3 OF 3)
C9.1	WATER AND SANITARY SEWER DETAILS (1 OF 2)
C9.2	WATER AND SANITARY SEWER DETAILS (2 OF 2)
C10.1	STORM SEWER DETAILS
C11.1	HARRIS COUNTY EXPRESS REVIEW SHEET
C11.2	HARRIS COUNTY FLOOD CONTROL EXPRESS REVIEW
C12.1	GENERAL NOTES
C12.2	OVERALL SITE PLAN
C13.1	STORM WATER POLLUTION PREVENTION PLAN
C13.2	STORM WATER POLLUTION PREVENTION PLAN DETAILS
C14.1	PROPOSED DRIVEWAYS
C15.1	PROPSED LEFT TURN LANE
C16.1	PLAN & PROFILE - 8" SANITARY SEWER
C17.1	HARRIS COUNTY TRAFFIC CONTROL PLAN
C18.1	MISCELLANEOUS DETAILS (1 OF 3)
C18.2	MISCELLANEOUS DETAILS (2 OF 3)
LANDSCAPE	
L1.1	LANDSCAPE PLAN
L1.2	ENLARGEMENT LANDSCAPE PLAN
IRRIGATION	
IR1.1	IRRIGATION PLAN
IR1.2	IRRIGATION SCHEDULES
IR1.3	IRRIGATION DETAILS
ARCHITECTURAL SITE	
AS1.01	OVERALL ARCHITECTURAL SITE PLAN
AS1.02	ENLARGED ARCHITECTURAL SITE PLAN
AS2.01	ENLARGED SITE PLAN & SITE DETAILS
AS2.02	ENLARGED SITE PLAN & SITE DETAILS
AS2.03	FENCE & GATE DETAILS
AS2.04	VEHICULAR GATE DETAILS
AS2.05	DUMPSTER ENCLOSURE & MONUMENT SIGN DETAILS
AS2.06	MISC. SITE DETAILS
STRUCTURAL	
S0.01	GENERAL NOTES
S0.03	AXONOMETRIC 3D VIEW
S1.01	MASTER PLAN - DIMENSION CONTROL - GRIDS
S1.02	MASTER PLAN - DIMENSION CONTROL - FOUNDATION
S1.03	MASTER PLAN - DIMENSION CONTROL - FLOOR & LOW FRAMING PLAN
S1.04	MASTER PLAN - DIMENSION CONTROL - ROOF FRAMING PLAN
S1.05	MASTER PLAN - DEEP FOUNDATION ELEMENTS
S1.06	MASTER PLAN - ANCHOR ROD PLAN
S1.07	MASTER PLAN - FOUNDATION
S1.08	MASTER PLAN - FLOOR FRAMING
S1.09	MASTER PLAN - ROOF FRAMING
S1.10	MASTER PLAN - SITE
S2.01	DEEP FOUNDATION ELEMENTS PLAN - AREA A
S2.02	DEEP FOUNDATION ELEMENTS PLAN - AREA B
S2.03	DEEP FOUNDATION ELEMENTS PLAN - AREA C
S2.04	DEEP FOUNDATION ELEMENTS PLAN - AREA D
S2.05	DEEP FOUNDATION ELEMENTS PLAN - AREA E
S2.06	DEEP FOUNDATION ELEMENTS PLAN - AREA F
S2.07	ANCHOR ROD PLACEMENT PLAN - AREA A
S2.08	ANCHOR ROD PLACEMENT PLAN - AREA B
S2.09	ANCHOR ROD PLACEMENT PLAN - AREA C
S2.10	ANCHOR ROD PLACEMENT PLAN - AREA D
S2.11	ANCHOR ROD PLACEMENT PLAN - AREA E
S2.12	ANCHOR ROD PLACEMENT PLAN - AREA F
S2.13	FOUNDATION PLAN - AREA A
S2.14	FOUNDATION PLAN - AREA B
S2.15	FOUNDATION PLAN - AREA C
S2.16	FOUNDATION PLAN - AREA D
S2.17	FOUNDATION PLAN - AREA E
S2.18	FOUNDATION PLAN - AREA F
S2.19	FOUNDATION PLAN - SITE
S3.01	TYPICAL FOUNDATION DETAILS
S3.02	TYPICAL FOUNDATION DETAILS
S3.03	TYPICAL FOUNDATION DETAILS
S3.04	TYPICAL PERIMETER PEDESTAL AND PILE CAP DETAILS
S3.05	TYPICAL ISOLATED INTERIOR PILE CAP DETAILS
S3.06	FOUNDATION DETAILS
S3.07	FOUNDATION DETAILS
S3.08	SITE FOUNDATION DETAILS
S4.01	MASTER PLAN - STRUCTURAL WALLS
S4.02	ENLARGED WALL PLANS - AREA A & D
S4.03	ENLARGED WALL PLAN - AREA F
S4.04	WALL ELEVATIONS
S4.05	WALL ELEVATIONS
S4.06	WALL ELEVATIONS
S4.07	WALL ELEVATIONS
S5.01	TYPICAL CMU DETAILS
S5.02	TYPICAL CMU DETAILS
S5.03	TYPICAL CMU DETAILS
S5.04	TYPICAL CMU DETAILS
S6.01	FLOOR & LOW ROOF FRAMING PLAN - AREA A
S6.02	FLOOR FRAMING PLAN - AREA B
S6.03	FLOOR & LOW ROOF FRAMING PLAN - AREA C
S6.04	FLOOR FRAMING PLAN - AREA D
S6.05	FLOOR FRAMING PLAN - AREA E
S6.06	ROOF FRAMING PLAN - AREA A
S6.07	ROOF FRAMING PLAN - AREA B
S6.08	ROOF FRAMING PLAN - AREA C
S6.09	ROOF FRAMING PLAN - AREA D
S6.10	ROOF FRAMING PLAN - AREA E
S6.11	LOW ROOF FRAMING PLAN - AREA F
S6.12	HIGH ROOF FRAMING PLAN - AREA F
S6.13	ENLARGED FLOOR FRAMING PLANS
S7.01	TYPICAL FRAMING DETAILS - COLUMNS AND CONNX
S7.02	TYPICAL FRAMING DETAILS - FLOOR
S7.03	TYPICAL FRAMING DETAILS - WALL
S7.04	TYPICAL FRAMING DETAILS - ROOF LOAD SUPPORT
S7.05	TYPICAL FRAMING DETAILS - ROOF
S7.06	TYPICAL FRAMING DETAILS - PLATES
S7.07	TYPICAL FRAMING DETAILS
S7.08	TYPICAL FRAMING DETAILS
S7.09	FRAMING DETAILS
S7.10	FRAMING DETAILS
S7.11	FRAMING SECTIONS
S7.12	FRAMING SECTIONS
S7.13	FRAMING SECTIONS
S7.14	FRAMING SECTIONS
S7.15	FRAMING SECTIONS
S7.16	FRAMING SECTIONS
S7.17	FRAMING SECTIONS
S7.18	FRAMING SECTIONS
S7.19	FRAMING SECTIONS
S7.20	FRAMING SECTIONS
S7.21	FRAMING SECTIONS
S7.22	FRAMING SECTIONS
S8.01	BRACED FRAME DETAILS
S8.02	BRACED FRAME ELEVATIONS
S8.03	BRACED FRAME ELEVATIONS
S8.04	BRACED FRAME ELEVATIONS
S8.05	BRACED FRAME ELEVATIONS
S9.01	NON-LOAD BEARING WALL BRACING DETAILS
S9.02	NON-LOAD BEARING WALL BRACING DETAILS
ARCHITECTURAL	
A1.01	MASTER FLOOR PLAN - LEVEL 1
A1.1A	FLOOR PLAN - LEVEL 1 - AREA A
A1.1B	FLOOR PLAN - LEVEL 1 - AREA B
A1.1C	FLOOR PLAN - LEVEL 1 - AREA C
A1.1D	FLOOR PLAN - LEVEL 1 - AREA D
A1.1E	FLOOR PLAN - LEVEL 1 - AREA E
A1.1F	FLOOR PLAN - LEVEL 1 - AREA F
A1.02	MASTER FLOOR PLAN - LEVEL 2
A1.2B	FLOOR PLAN - LEVEL 2 - AREA B
A1.2C	FLOOR PLAN - LEVEL 2 - AREA C
A1.2D	FLOOR PLAN - LEVEL 2 - AREA D
A1.2E	FLOOR PLAN - LEVEL 2 - AREA E
A1.30	FLOOR PLAN - EQUIPMENT PLATFORMS
A1.31	TOILET ACCESSORIES AND PLUMBING FIXTURES
A1.32	TOILET ROOMS AND COMPARTMENTS
A1.33	ENLARGED PLANS - TOILETS
A1.34	ENLARGED PLANS - STAIRS
A1.35	ENLARGED PLANS - STAIRS
A1.36	ENLARGED PLANS - STAIRS
A1.37	ENLARGED PLANS - LEARNING STAIRS
A1.38	ENLARGED PLANS - LEARNING STAIRS
A1.39	ENLARGED PLANS - LEARNING STAIRS
A1.40	ENLARGED PLANS - RAMPS AND ELEVATORS
A1.41	PLAN DETAILS
A1.42	PLAN DETAILS
A1.43	PLAN DETAILS
A1.44	PLAN DETAILS
A1.45	PLAN DETAILS
A1.49	EXPANSION JOINT DETAILS
A1.50	DIMENSIONAL CONTROL PLAN
A2.01	MASTER REFLECTED CEILING PLAN - LEVEL 01
A2.1A	REFLECTED CEILING PLAN - LEVEL 01 - AREA A
A2.1B	REFLECTED CEILING PLAN - LEVEL 01 - AREA B
A2.1C	REFLECTED CEILING PLAN - LEVEL 01 - AREA C
A2.1D	REFLECTED CEILING PLAN - LEVEL 01 - AREA D
A2.1E	REFLECTED CEILING PLAN - LEVEL 01 - AREA E
A2.1F	REFLECTED CEILING PLAN - LEVEL 01 - AREA F
A2.02	MASTER REFLECTED CEILING PLAN - LEVEL 02
A2.2A	REFLECTED CEILING PLAN - LEVEL 02 - AREA A
A2.2B	REFLECTED CEILING PLAN - LEVEL 02 - AREA B
A2.2C	REFLECTED CEILING PLAN - LEVEL 02 - AREA C
A2.2D	REFLECTED CEILING PLAN - LEVEL 02 - AREA D
A2.2E	REFLECTED CEILING PLAN - LEVEL 02 - AREA E
A2.30	CEILING DETAILS
A2.31	CEILING DETAILS
A3.01	DOORS SCHEDULES
A3.02	INTERIOR STOREFRONT CONFIGURATIONS
A3.03	EXTERIOR STOREFRONT CONFIGURATIONS
A3.04	EXTERIOR STOREFRONT CONFIGURATIONS
A3.05	INTERIOR & EXTERIOR CURTAINWALL CONFIGURATIONS
A3.06	TYP. OPENING FLASHING DETAILS
A3.07	TYP. OPENING FLASHING DETAILS
A3.08	TYP. DETAILS
A3.09	INTERIOR OPENING DETAILS
A3.10	INTERIOR OPENING DETAILS
A3.11	TYP. MASONRY VENEER DETAILS
A3.12	TYP. MASONRY VENEER/CFMF/SF DETAILS
A3.13	TYP. MASONRY VENEER/CMU/SF DETAILS
A3.14	TYP. MASONRY VENEER/CFMF/CW DETAILS
A3.15	TYP. MASONRY VENEER/CMU/CW DETAILS
A3.16	TYP. MASONRY VENEER & METAL PANEL/CFMF/HM DETAILS
A3.17	TYP. MASONRY VENEER/CMU/HM DETAILS
A3.18	TYP. METAL PANEL/CFMF/SF DETAILS
A3.19	TYP. METAL PANEL/CMU/SF DETAILS
A3.20	TYP. METAL PANEL/CFMF/CW DETAILS
A3.21	TYP. EXT. OVERHEAD BI-FOLD DOOR
A4.01	MASTER FINISH PLAN - LEVEL 01
A4.1A	FINISH PLAN - LEVEL 01 - AREA A
A4.1B	FINISH PLAN - LEVEL 01 - AREA B
A4.1C	FINISH PLAN - LEVEL 01 - AREA C
A4.1D	FINISH PLAN - LEVEL 01 - AREA D
A4.1E	FINISH PLAN - LEVEL 01 - AREA E
A4.1F	FINISH PLAN - LEVEL 01 - AREA F
A4.02	MASTER FINISH PLAN - LEVEL 02
A4.2B	FINISH PLAN - LEVEL 02 - AREA B
A4.2C	FINISH PLAN - LEVEL 02 - AREA C
A4.2D	FINISH PLAN - LEVEL 02 - AREA D
A4.2E	FINISH PLAN - LEVEL 02 - AREA E
A4.30	FINISH PLAN - EQUIPMENT PLATFORMS
A4.31	ENLARGED FINISH PLANS
A4.32	INTERIOR ELEVATIONS
A4.33	INTERIOR ELEVATIONS
A4.34	INTERIOR ELEVATIONS
A4.35	INTERIOR ELEVATIONS
A4.36	INTERIOR ELEVATIONS
A4.37	INTERIOR ELEVATIONS
A4.38	INTERIOR ELEVATIONS
A4.39	INTERIOR ELEVATIONS
A4.40	INTERIOR ELEVATIONS
A4.41	INTERIOR ELEVATIONS
A4.42	INTERIOR ELEVATIONS
A4.43	RR ELEVATIONS
A4.44	INTERIOR DETAILS AND TYPICAL INTERIOR FINISH DETAILS
A4.45	INTERIOR FINISH DETAILS
A4.46	INTERIOR FINISH DETAILS
A5.01	EXTERIOR ELEVATIONS - OVERALL
A5.02	EXTERIOR ELEVATIONS
A5.03	EXTERIOR ELEVATIONS
A5.04	EXTERIOR ELEVATIONS
A5.05	EXTERIOR ELEVATIONS
A5.06	EXTERIOR ELEVATION DETAILS
A5.07	EXTERIOR ELEVATION DETAILS
A6.01	BUILDING SECTIONS
A6.02	WALL SECTIONS
A6.03	WALL SECTIONS
A6.04	WALL SECTIONS
A6.05	WALL SECTIONS
A6.06	WALL SECTIONS
A6.07	WALL SECTIONS
A6.08	WALL SECTIONS
A6.09	WALL SECTIONS
A6.10	WALL SECTIONS
A6.11	WALL SECTIONS
A6.12	WALL SECTIONS
A6.13	WALL SECTIONS
A6.14	WALL SECTIONS
A6.15	WALL SECTIONS
A6.16	WALL SECTIONS
A6.17	FOUNDATION DETAILS
A6.18	FOUNDATION DETAILS
A6.19	FOUNDATION DETAILS
A6.20	WALL SECTIONS - BASE FLASHING, ELEVATOR PIT, AND MASONRY DETAILS
A6.21	WALL SECTION DETAILS
A6.22	WALL SECTION DETAILS
A6.23	WALL SECTION DETAILS
A6.24	WALL SECTION DETAILS
A6.25	WALL SECTION DETAILS
A6.26	WALL SECTION DETAILS
A6.27	WALL SECTION DETAILS
A6.28	WALL SECTION DETAILS - ENLARGED
A6.29	WALL SECTION DETAILS - ENLARGED
A6.30	WALL SECTION DETAILS - ENLARGED
A6.31	WALL SECTIONS - STAIR DETAILS
A6.32	WALL SECTIONS - STAIR DETAILS
A6.41	RAILING TYPES AND DETAILS
A7.01	ROOF PLAN
A7.02	ENLARGED PLAN - SKYLIGHT
A7.03	TYPICAL ROOFING DETAILS MOD-BIT
A7.04	TYPICAL ROOFING DETAILS MOD-BIT
A7.05	TYPICAL COMMON ROOFING DETAILS
A7.06	TYPICAL COMMON ROOFING DETAILS
A8.1A	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA A
A8.1B	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA B
A8.1C	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA C
A8.1D	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA D
A8.1E	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA E
A8.1F	SIGNAGE & EQUIPMENT PLAN - LEVEL 01 - AREA F
A8.2B	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA B
A8.2C	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA C
A8.2D	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA D
A8.2E	SIGNAGE & EQUIPMENT PLAN - LEVEL 02 - AREA E
A8.30	INSTRUMENT STORAGE & LOCKERS
A8.31	CASEWORK LEGENDS AND ELEVATIONS
A8.32	CASEWORK LEGENDS AND ELEVATIONS
A8.33	CASEWORK LEGENDS AND ELEVATIONS
A8.34	MISC MILLWORK DETAILS
A8.36	SIGNAGE TYPES & DETAILS
A8.37	ROOM SIGNAGE SCHEDULE
A9.01	TYPICAL DETAILS
PLUMBING	
P0.01	PLUMBING SYMBOL LEGEND AND GENERAL NOTES
P0.02	PLUMBING SCHEDULES
P1.00	PLUMBING SITE PLAN
P2.0A	PLUMBING PLAN - BELOW SLAB - AREA A
P2.0B	PLUMBING PLAN - BELOW SLAB - AREA B
P2.0C	PLUMBING PLAN - BELOW SLAB - AREA C
P2.0D	PLUMBING PLAN - BELOW SLAB - AREA D
P2.0E	PLUMBING PLAN - BELOW SLAB - AREA E
P2.0F	PLUMBING PLAN - BELOW SLAB - AREA F
P2.1A	PLUMBING PLAN - LEVEL 01 - AREA A
P2.1B	PLUMBING PLAN - LEVEL 01 - AREA B
P2.1C	PLUMBING PLAN - LEVEL 01 - AREA C
P2.1D	PLUMBING PLAN - LEVEL 01 - A

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REFER TO FOODSERVICE DESIGN PROFESSIONALS SPECIFICATIONS AND SUBSEQUENT SHEETS FOR ADDITIONAL COORDINATION INFORMATION

EXISTING EQUIPMENT NOTES (IF EXISTING EQUIPMENT IS PROVIDED IN THIS PROJECT):

1. EXISTING EQUIPMENT NOT SCHEDULED FOR RE-USE TO BE RELOCATED BY THE K.E.C. COORDINATE WITH OWNER FOR NEW LOCATION.
2. ALL UTILITIES NOT SCHEDULED FOR RE-USE TO BE CAPPED & COVERED BY REQUIRED DISCIPLINE.
3. K.E.C. TO VERIFY ALL EXISTING UTILITY LOCATIONS & COORDINATE WITH ALL EQUIPMENT AS REQUIRED.

8 EXISTING EQUIPMENT NOTES1
NOT TO SCALE

ARCHITECT TO VERIFY/COORDINATE THE AESTHETIC OPTIONS BELOW (FOOD SERVICE COLOR, MATERIAL, OR SIGNAGE SELECTIONS) IF THESE ITEMS ARE PROVIDED IN THIS PROJECT:

1. COUNTERTOPS: STONE (STAINLESS STEEL IS PROVIDED UNLESS OTHERWISE SPECIFIED).
2. TRAY SLIDES: CORIAN OR STONE (STAINLESS STEEL IS PROVIDED UNLESS OTHERWISE SPECIFIED).
3. COUNTER FRONTS: CERAMIC TILE, 3 FORM, OR PLASTIC LAMINATE.
4. SNEEZE GUARDS: STONE INSETS.
5. GENERAL COLOR, MATERIAL AND GRAPHIC SELECTIONS:
   - A. DISPLAY AIR SCREEN MERCHANDISERS - COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - B. BAKERY DISPLAY CASES - COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - C. PASS THRU OR REACH IN HOLDING CABINETS - COLOR SELECTION: POWDER COAT (MFG.: TRUE) OR PLASTIC LAMINATE (MFG.: TRAULSEN) (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - D. HANGING HEAT LAMPS - TRACK AND FIXTURE COLOR SELECTION.
   - E. HEATED MERCHANDISERS.
   - F. PORTABLE GUIDE RAILS - STANCHION AND BELT COLOR SELECTION.
   - G. POPCORN MACHINE - SIGNAGE SELECTION.
   - H. BOTTLE COOLER - SIGNAGE SELECTION.
   - I. GRAPHICS PACKAGE INFORMATION.
   - J. HOT FOOD WELL COVERS.
6. ARCHITECT TO VERIFY/COORDINATE THE FINISHES BELOW:
   - A. WALLS: CERAMIC TILE, FLAT FRP, OR MOLDED FRP (SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
   - B. CEILINGS: REMOVABLE VINYL FACE TILE (SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
   - C. FLOORS: TILE, EPOXY, OR RUBBERIZED FLOORING SYSTEM (SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT AS APPROVED BY LOCAL JURISDICTION) (COORDINATE FLOOR TILE TRANSITION AT SERVING LINES).
   - D. FLOORS: WALK-IN ASSEMBLY - EXTEND KITCHEN FLOOR FLUSH INTO WALK-IN ASSEMBLY WITH COVED BASE.
   - E. FURR DOWNS ABOVE SERVING COUNTERS.

5 ARCHITECTURAL COORDINATION NOTES1
NOT TO SCALE

CRITICAL NOTES:

1. CONTRACTOR MUST COORDINATE AND VERIFY ALL DIMENSIONS WITH FOOD SERVICE EQUIPMENT SHOP DRAWINGS AND MANUFACTURER'S DATA. DIMENSIONS SHOWN HERE ARE FOR DESIGN AND BIDDING PURPOSES ONLY.
2. WALK-IN ASSEMBLY DOORS MUST BE LEFT OPEN WHILE INTERIOR CONCRETE FLOOR CURES.
3. INSTALL PROTECTIVE COVER ON WALK-IN ASSEMBLY WALL PANELS BEFORE INSTALLING CONCRETE FLOORS AND CURBS.
4. DIVISION 27 TO PROVIDE CONDUIT, DATA LINE, AND INTERCONNECT THE PANIC ALARM INSIDE FREEZER AND COOLER TO THE BUILDING AUTOMATION SYSTEM FOR NOTIFICATION TO DISTRICT PERSONNEL IN THE EVENT OF STAFF ENTRAPMENT. (REFER TO GENERAL SPECS)
5. DIVISION 27 TO PROVIDE CONDUIT, DATA LINE, AND INTERCONNECT LEAK DETECTION SYSTEM TO BUILDING AUTOMATION SYSTEM FOR NOTIFICATION TO DISTRICT PERSONNEL. (REFER TO GENERAL SPECS)
5. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT - CRITICAL (DIV. 22).

7 CRITICAL NOTES1
NOT TO SCALE

DIVISION 26 (ELECTRICAL) IS RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL ELECTRICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. ROUGH-IN AND FINAL CONNECTION OF ELECTRICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 26.
6. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REMOTE REFRIGERATION EVAPORATOR CONTROL WIRES, TEMPERATURE MONITOR PANEL, AND EMERGENCY ALARM/STROBES AS REQUIRED.
7. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR INTERCONNECT INTERCONNECT CABLES BETWEEN LAN AND POS TERMINALS, CHANGE-MAKERS, PRE-CHECK UNITS, PRINTERS, CPUS, ETC. DIVISION 26 TO VERIFY WHERE THE CONDUIT IS TO RUN FOR POS SYSTEM (I.E., MANAGER'S OFFICE OR IDF ROOM).
8. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR FIRE SUPPRESSION SYSTEMS. INTERCONNECT FIRE PROTECTION SYSTEM TO PANEL BOX SHUNT TRIPS AND BUILDING ALARM.
9. WALK-IN LIGHT FIXTURE INSTALLATION (PROVIDED LOOSE BY SECTION 11 40 00) (IF WALK-IN IS PROVIDED IN THIS PROJECT).
10. TABLE LIMIT SWITCH (PROVIDED LOOSE BY SECTION 11 40 00) (IF DISHMACHINE IS PROVIDED IN THIS PROJECT) - INSTALL AND INTERCONNECT TO DISHMACHINE .
11. ELECTRICAL MATERIALS AND DEVICES (SHUNT-TRIP BREAKERS, SURGE PROTECTORS, LIGHTING CONTROL DEVICES, CONDUIT, WIRE, ETC.).
12. SWITCHES AND STAINLESS STEEL DISCONNECTS AS REQUIRED (PROVIDE, LOCATE, AND INSTALL – TO BE IN AN ACCESSIBLE LOCATION).
13. CHARGING STATIONS FOR FORKLIFTS, PALLET STACKERS, AND PALLET JACKS (SIZE, PROVIDE, LOCATE, AND INSTALL) (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
14. INTERCONNECTION BETWEEN CONDENSATE FAN AND DISHMACHINE CONTROL PANEL (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
15. INTERCONNECTION BETWEEN EXHAUST HOOD FANS AND SWITCH (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
16. INTERCONNECTION BETWEEN EXHAUST HOOD LIGHTS AND SWITCH (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
17. DOOR HEATERS, LIGHTS, COILS, AND PRESSURE RELIEF PORTS PRE-WIRED TO JUNCTION BOX AT TOP OF WALK-IN ASSEMBLIES (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) PROVIDED BY SECTION 11 40 00. FINAL CONNECTION BY DIV. 26.
18. IF ANY ELECTRICAL ACCESSORIES, FITTINGS, AND CORD/PLUGS ARE PROVIDED LOOSE WITH EQUIPMENT BY 11 40 00, DIV.26 IS TO ATTACH TO EQUIPMENT AND PROVIDE FINAL CONNECTION.
19. PROVIDE WATERPROOF RECEPTACLES IN WET AREAS.
20. ALL ELECTRICAL LIGHTING, POWER, AND DISTRIBUTION SYSTEMS.
21. ALL ELECTRICAL CONNECTIONS BENEATH EXHAUST HOODS (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) TO EXTEND TO SHUNT TRIP BREAKERS WITH ELECTRICAL PANEL BOX FOR SHUTDOWN DURING FIRE MODE.
22. RECEPTACLES ARE TO BE PRE-WIRED TO THE JUNCTION BOX OR LOAD CENTER FOR FINAL CONNECTION BY DIVISION 26.
23. DO NOT INTERCONNECT MORE THAN THREE (3) CONVENIENCE OUTLETS ON ONE (1) BREAKER.
24. OTHER THAN CONVENIENCE OUTLETS, ALL ELECTRICAL CONNECTIONS SHOWN ON FOOD SERVICE PLANS ARE DEDICATED BREAKERS.
25. DOORBELL AT RECEIVING DOOR (PROVIDE AND INSTALL – TO BE AUDIBLE THROUGHOUT KITCHEN, OFFICE, AND DRY STORAGE ROOM).
26. ADEQUATE LIGHTING AT RECEIVING DOOR.
27. (IF WALK-IN IS PROVIDED IN THIS PROJECT) WALK-IN MANUFACTURER IS TO PROVIDE THREE (3) EDWARDS 860 SERIES (OR EQUAL) RED LENS, SURFACE-MOUNTED XENON EMERGENCY STROBE BEACONS. DIV 26 WILL INSTALL ONE (1) LOCATED IN THE KITCHEN IN ARCHITECTURAL CEILING ABOVE WALK-IN COOLER DOOR, ONE (1) LOCATED IN THE KITCHEN IN ARCHITECTURAL CEILING ABOVE WALK-IN FREEZER DOOR, AND THE THIRD UNIT LOCATED IN THE CAFETORIUM (DIV 26 TO COORDINATE LOCATION WITH OWNERS AND ARCHITECT). DIVISION 26 IS TO PROVIDE ALL CONDUIT AND WIRING REQUIRED AND INTERCONNECT THE ILLUMINATED PUSH BUTTON PANIC ALARM IN THE WALK-IN COOLER AND FREEZER TO ALL STROBE BEACONS (CRITICAL). COORDINATE WITH DIVISION 27. REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
28. DEDICATED CIRCUIT FOR HEATED DRAIN LINE CONNECTION IN WALK-IN FREEZER AT EACH COIL (IF WALK-IN IS PROVIDED IN THIS PROJECT).
29. GFCI BREAKER FOR ALL RECEPTACLES UNDER EXHAUST HOODS (IF HOODS ARE PROVIDED IN THE PROJECT), AND HOLDING CABINETS (IF HOLDING CABINETS ARE PROVIDED IN THIS PROJECT), TO BE LOCATED WITHIN KITCHEN'S ELECTRICAL BREAKER PANEL AND NOT AT THE RECEPTACLES.
30. REMOTE GFCI RESET SWITCHES TO BE ACCESSIBLE TO USER.
31. ALL ELECTRICAL BELOW EXHAUST HOOD (IF HOODS ARE PROVIDED IN THE PROJECT) ARE TO HAVE SHUNT TRIP BREAKERS.
32. INTERCONNECT TEMP SENSOR TO EXHAUST / SUPPLY FANS (IF HOODS ARE PROVIDED IN THE PROJECT).

NOTE: ELECTRICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 26. FOR ADDITIONAL REQUIREMENTS, REFER TO THE ELECTRICAL ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

6 ELECTRICAL COORDINATION NOTES1
NOT TO SCALE

DIVISION 22 (PLUMBING) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL PLUMBING REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEPING BENDS FOR BEVERAGE LINES, REFRIGERATION TO BEVERAGE LINES, CO2 LINES, AND ALL PLUMBING LINES REQUIRED FOR WATER-COOLED EQUIPMENT.
6. ROUGH-IN AND FINAL PLUMBING CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 22. THIS INCLUDES BUT IS NOT LIMITED TO INSTALLATION OF ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), HOSES, GAS DISCONNECTS, AND DRAINS FROM EQUIPMENT POINT OF CONNECTION TO BUILDING PLUMBING SYSTEMS. ALL DRAIN LINES ARE PROVIDED AND INSTALLED BY DIV. 22.
7. KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), DRAIN FITTINGS, MIXING VALVES, CONTROL VALVES, WATER PRESSURE REGULATORS, VACUUM BREAKERS, AND ALL ACCESSORIES FOR EQUIPMENT SPECIFIED UNDER 11 40 00. DIVISION 22 IS RESPONSIBLE FOR INSTALLATION.
8. INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST DRAIN OR FLOOR SINK. LINES TO BE TYPE 'K' COPPER. PAINT WITH ALUMINUM PAINT WHERE EXPOSED.
9. IF ANY PLUMBING ACCESSORIES OR FITTINGS ARE PROVIDED LOOSE WITH EQUIPMENT BY 11 40 00, DIV. 22 IS TO ATTACH TO EQUIPMENT AND PROVIDE FINAL CONNECTION.
10. GAS SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
11. WATER SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
12. COMPRESSED AIR SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM (IF REQUIRED FOR THIS PROJECT).
13. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT - CRITICAL.
14. FLOOR SINKS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
15. FLOOR DRAINS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
16. TRENCH DRAINS (PROVIDE AND INSTALL). TRENCH LINERS PROVIDED BY 11 40 00. FLANGE AND LINERS TO BE FLUSH WITH FINISHED FLOOR.
17. GREASE TRAPS AS REQUIRED. VERIFY WITH LOCAL CODES TO BYPASS OR PIPE THRU GREASE TRAP AND/OR INTERCEPTOR.
18. P-TRAPS AS REQUIRED (INCLUDING ALL DISPOSERS).
19. INTERCONNECT WATER THRU WATER FILTER (FILTER PROVIDED BY 11 40 00 UNLESS OTHERWISE SPECIFIED) TO EQUIPMENT.
20. GAS QUICK DISCONNECT INSTALLATION (QUICK DISCONNECT PROVIDED BY 11 40 00).
21. SAFETY RESTRAINT CABLE INSTALLATION (SAFETY RESTRAINT CABLE PROVIDED BY 11 40 00).
22. SPECIFIED COUPLINGS AND PIPING TO ALL EQUIPMENT FURNISHED BY 11 40 00.
23. AIR COMPRESSORS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
24. WATER SOFTENERS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
25. PRESSURE BOILERS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
26. HAND SINKS (PROVIDE (UNLESS OTHERWISE SPECIFIED) AND INSTALL). PROVIDE HOT WATER TEMPERING VALVE IF REQUIRED. WATER TEMPERATURE TO BE AT LEAST 100 DEGREES AND FLOW FOR AT LEAST 20 SECONDS.
27. ICE BIN DRAIN INSULATION (IF ICE MACHINE IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
28. UNIONS AT DISPOSER SOLENOID VALVES (IF DISPOSER IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
29. BACK FLOW PREVENTION AS REQUIRED (PROVIDE AND INSTALL - INCLUDING ALL DISPOSERS). BACK- SIPHONAGE SHALL BE INSTALLED AT ALL FIXTURES AND EQUIPMENT WHERE BACKFLOW AND/OR BACK-SIPHONAGE MAY OCCUR AND WHERE A MINIMUM AIR GAP CANNOT BE PROVIDED BETWEEN THE WATER TO THE FIXTURE OR EQUIPMENT AT ITS FLOOD/LEVEL RIM. VACUUM BREAKERS, WHEN FURNISHED WITH EQUIPMENT, SHALL OVERRIDE THE ABOVE, IF ACCEPTABLE WITH APPLICABLE CODES. DIVISION 22 RESPONSIBLE FOR VERIFYING REQUIREMENT WITH LOCAL CODES.
30. JANITOR SINK WITH FAUCET (PROVIDE AND INSTALL).
31. FREEZE PROOF HYDRANT AT EXTERIOR OF BUILDING BY RECEIVING DOOR (PROVIDE AND INSTALL).
32. REVERSE OSMOSIS SYSTEMS (SIZE, PROVIDE (UNLESS OTHERWISE SPECIFIED), LOCATE AND INSTALL).
33. ALL PIPING WITHIN COUNTER BODY OR UNDER FABRICATED COUNTERS TO BE RUN TO A CONNECTION POINT BELOW COUNTER BODY BY SECTION 11 40 00. FINAL CONNECTION BY DIVISION 22.
34. EXHAUST HOOD CONDENSATE DRAIN CONNECTIONS (IF EXHAUST HOOD IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
35. INTERCONNECTION OF 1/2" CW TO PRE-RINSE AND DISPOSERS CONE/BODY INLETS PIPED THROUGH SOLENOID AND VACUUM BREAKER (IF DISPOSER IS PROVIDED IN THIS PROJECT).
36. FIRE SYSTEM PIPING. EXPOSED PIPING TO BE CHROME PLATED.
37. PIPE 1/2" COLD WATER TO SWIRL INLETS AT DISPOSERS (IF DISPOSER IS PROVIDED IN THIS PROJECT).
38. WATER TREATMENT FOR ICE BUILDERS (NON-CHLORINATED WATER WITH A PH LEVEL OF 10 OR HIGHER) AND ANY DRAINS AND OVERFLOWS. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS BY DIV. 23 (IF ICE BUILDERS AND TUMBLE CHILLERS ARE PROVIDED IN THIS PROJECT).
39. IF A GAS DROP EXCEEDS 1,000 MBTU/HR A SECOND DROP IS REQUIRED TO FORM A CIRCULAR GAS LOOP, PROVIDED AND INSTALLED BY DIV. 22. DIV. 22 TO COORDINATE ANSUL SHUT-OFF VALVE PRIOR TO CIRCULAR LOOP.

NOTE: WATER AND DRAIN CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 22. FOR ADDITIONAL REQUIREMENTS, REFER TO THE PLUMBING ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

4 PLUMBING COORDINATION NOTES1
NOT TO SCALE

DIVISION 23 (MECHANICAL) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL MECHANICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. ROUGH-IN AND FINAL CONNECTION OF MECHANICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR).
6. TESTING AND BALANCING FOR ROOMS AND EXHAUST HOODS TO BE PERFORMED BY MECHANICAL CONTRACTOR. BALANCE REPORT FOR FOOD SERVICE EXHAUST HOODS TO BE PROVIDED TO FOODSERVICE DESIGN PROFESSIONALS (FDP) IMMEDIATELY UPON COMPLETION (SEND TO HOUSTON.SUBMITTAL@FDP.ORG FOR HOUSTON OFFICE AND DALLAS.SUBMITTAL@FDP.ORG FOR DALLAS OFFICE) AND MUST BE SUBMITTED WITH O&M MANUALS.
7. EXHAUST HOODS, CONDENSATE HOODS, FIRE SUPPRESSION SYSTEMS, CONNECTIONS AND CONTROLS (PROVIDE AND INSTALL – *UNLESS OTHERWISE SPECIFIED*). PROVIDE TEMPERED AIR AT ALL SUPPLY DUCTS.
   - A. IF EXHAUST/CONDENSATE HOODS AND FIRE SUPPRESSION SYSTEMS ARE SPECIFIED UNDER SECTION 11 40 00, DIVISION 23 IS RESPONSIBLE FOR ALL EXHAUST AND CONDENSATE HOOD CONNECTIONS (PROVIDE AND INSTALL).
8. VFD SYSTEM AND CONTROLLERS, WHEN REQUIRED BY CODE (PROVIDE AND INSTALL).
9. PROVIDE AND INSTALL ALL VENTILATION (DIRECT OR INDIRECT), AIR CONDITIONING AND HEATING SYSTEMS (UNLESS OTHERWISE SPECIFIED).
10. COORDINATE SUPPLY AND RETURN DUCTS ABOVE SERVING COUNTERS OR OPEN-AIR REFRIGERATED MERCHANDISERS. NO COLD AIR TO BLOW DIRECTLY ON HOT FOOD COUNTERS.
11. COORDINATE SUPPLY AND RETURN DUCTS AWAY FROM EQUIPMENT WITH TOP MOUNTED REFRIGERATION. NO COLD AIR TO BLOW DIRECTLY ON COMPRESSORS.
12. MECHANICAL CONTRACTOR TO LOCATE TEMPERATURE MONITORS WITHIN RETURN DUCTS.
13. CIRCULATING AIR ABOVE WALK-IN ASSEMBLIES (PROVIDE AND INSTALL).
14. CIRCULATING AIR ABOVE AND IN AIR GAPS AT WAREHOUSE COLD STORAGE ASSEMBLIES (PROVIDE AND INSTALL).
15. WATER CHILLERS AS REQUIRED (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) (PROVIDE, SIZE AND LOCATE).
16. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) (PROVIDE, SIZE AND LOCATE).

NOTE: MECHANICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FORTHE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 23. FOR ADDITIONAL REQUIREMENTS, REFER TO THE MECHANICAL ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

3 MECHANICAL COORDINATION NOTES1
NOT TO SCALE

GENERAL CONTRACTOR RESPONSIBLE FOR BUT NOT LIMITED TO:

1. ANY WALL PENETRATION REQUIRED FOR FOOD SERVICE EQUIPMENT UTILITIES. ESCUTCHEON PLATES OR S/S SLEEVES TO BE PROVIDED AND INSTALLED AS NEEDED.
2. BULK FREEZER VENTILATION PIPE (IF BULK FREEZER IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
3. CORE DRILLING FOR GUIDE RAILS (IF GUIDE RAILS ARE PROVIDED IN THIS PROJECT).
4. REFRIGERATION ROOF CURBS / ROOF JACK (IF REFRIGERATION SYSTEM IS PROVIDED IN THIS PROJECT AND LOCATED ON ROOF).
5. INTERIOR BOLLARDS (IF REQUIRED FOR THIS PROJECT) – TO BE EPOXY PAINTED PER LOCAL CODES (PROVIDE AND INSTALL).
6. FURNISH AND INSTALL 3/4" PLYWOOD BLOCKING IN THE WALL FOR MOUNTING EQUIPMENT FURNISHED BY SECTION 11 40 00 AS REQUIRED.
7. WALK-IN DEPRESSIONS (TO BE DEAD LEVEL) AND SAND LEVELING BED (IF WALK-IN IS PROVIDED IN THIS PROJECT AND RECESS IS SHOWN).
8. STRUCTURAL BRACING FOR BULK WALK-IN CEILING PANELS IF REQUIRED.
9. MENU SYSTEM VIDEO MONITORS IN SERVERY (UNLESS OTHERWISE SPECIFIED).
10. STRUCTURAL BRACING FOR MENU SYSTEM VIDEO MONITORS IF REQUIRED.
11. INTERIOR/EXTERIOR REFRIGERATION PENETRATIONS AND SLEEVES AT BUILDING PENETRATIONS.
12. DOORSCOPE VIEWER (PEEPHOLE) WITH WIDE VIEWING ANGLE AT RECEIVING DOOR.
13. CANOPY AT RECEIVING DOOR. COORDINATE HEIGHT WITH THE HEIGHT OF RECEIVING DOOR (8') AND THE MOUNTING HEIGHT OF AIR SCREEN ABOVE THE DOOR.
14. SOAP AND TOWEL DISPENSER PROVIDED BY OWNER. G.C. RESPONSIBLE FOR INSTALLATION.
15. WASHER AND DRYER (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
16. DWARF WALL AT EXPOSED FRONT/ENDS OF CAFETERIA SERVING COUNTERS WITH FINISH AS SELECTED BY ARCHITECT (IF REQUIRED IN THIS PROJECT).

2 GENERAL CONTRACTOR COORDINATION NOTES1
NOT TO SCALE

HEALTH DEPARTMENT REQUIREMENTS (VERIFY WITH LOCAL JURISDICTIONS):

1. FLOORS: VERIFY WITH DIVISION 9. FLOORS TO BE SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT.
2. WALLS: VERIFY WITH ARCHITECTURAL DOCUMENTS. WALLS TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
3. CEILING: LAY-IN TILES. CEILING TILES TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
4. EMPLOYEE TOILET: TO BE LOCATED OFF MAIN CORRIDOR AND ADJACENT TO MAIN KITCHEN. RESTROOM MUST HAVE A VESTIBULE AND NOT OPEN TO KITCHEN / PREP AREAS. TOILETS TO BE WELL VENTILATED.
5. LAVATORIES: WALL HUNG LAVATORIES LOCATED WITHIN ALL FUNCTIONAL WORKING AREAS.
6. UTENSIL CLEANING/SANITIZING: ACCOMPLISHED IN UTENSIL WASH AREA WITH (3) 2'-0" x 2'-2" x 15" MINIMUM DEEP SINKS AND WAREWASH MACHINE.
7. MECHANICAL CLEANING/SANITIZING OF TABLEWARE: ACCOMPLISHED BY WAREWASH MACHINE.
8. STOREROOMS: AMPLE DAILY STORAGE PROVIDED IN ENCLOSED STORE ROOMS. STORE ROOMS TO BE VENTILATED AND MAINTAIN PROPER TEMPERATURE.
9. WATER HEATER: LOCATED IN THE MECHANICAL ROOM ADJACENT TO KITCHEN. TO BE SIZED TO PROVIDE AMPLE WATER TO MAINTAIN PROPER WATER TEMPERATURE THROUGHOUT HOURS OF OPERATION.
10. GREASE TRAP: LOCATED AT EXTERIOR OF BUILDING. REFER TO ENGINEER'S DRAWINGS.
11. FOOD SERVICE EQUIPMENT: ALL FLOOR-MOUNTED EQUIPMENT IS TO BE SEALED TO THE FLOOR TO PROVIDE AN EASILY CLEANABLE SURFACE AND PREVENT SEEPAGE. EQUIPMENT NOT MOUNTED TO THE FLOOR IS TO BE WALL MOUNTED ON WALL CARRIERS, OR ELEVATED ON LEGS TO PROVIDE AT LEAST A SIX-INCH CLEARANCE BETWEEN FLOOR AND EQUIPMENT.
12. MOP SINK: LOCATED IN JANITOR CLOSET OFF MAIN KITCHEN CORRIDOR, AND LOCATED IN CLOSE PROXIMITY TO THE WAREWASH AREA.
13. EXHAUST HOODS: EXHAUST HOODS PROVIDED OVER COOKING EQUIPMENT WITH LIQUID CHEMICAL ANSUL FIRE EXTINGUISHING SYSTEM.
14. LIGHTING AND PROTECTIVE SHIELDING: RECESSED CEILING-MOUNTED FLUORESCENT LIGHT FIXTURES FITTED WITH CLEAR LEXAN DIFFUSERS.
15. GARBAGE AND REFUSE: CENTRAL TRASH COLLECTION PROVIDED FOR BUILDING LOCATED NEAR RECEIVING AREA ON SMOOTH CONCRETE SURFACE.
16. POISONOUS AND TOXIC MATERIAL STORAGE: LOCATED IN RESPECTIVE JANITOR CLOSETS WITH LOCKING HARDWARE.

1 HEALTH DEPARTMENT COORDINATION NOTES1
NOT TO SCALE

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

Date
Revision /

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
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FS GENERAL COORDINATION NOTES

PACKAGE	VOLUME
Job No. 00802-04-01	Sheet No. QF1
Drawn By: MM	
Date: 07.15.26	

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QF1.2	FS EQUIPMENT MODEL
QF1.3	FS SPECIAL CONDITIONS & MECHANICAL PLAN
QF1.4	FS PLUMBING PLAN
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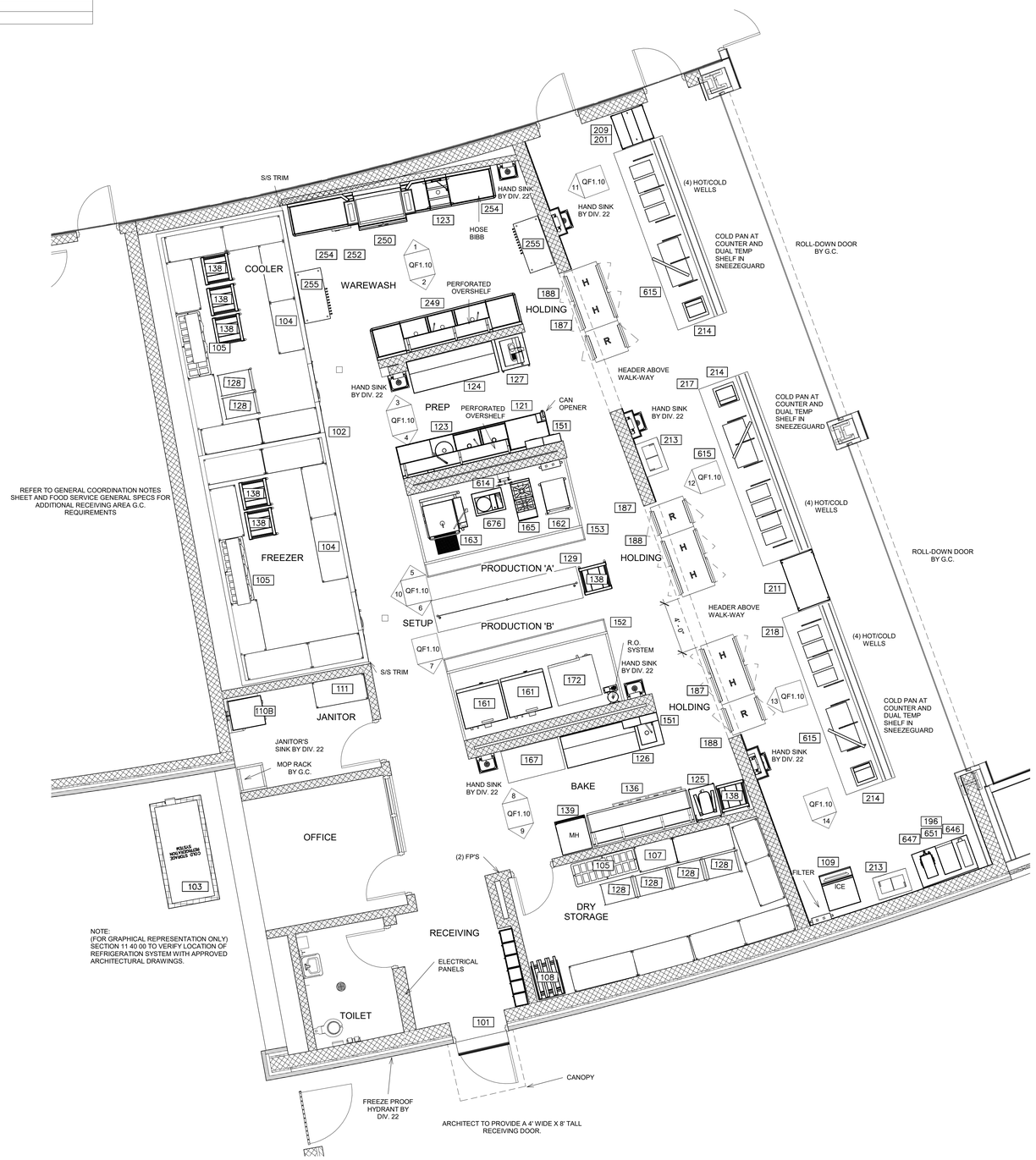

1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE - KITCHEN			
REFER TO SHEET QF1 FOR GENERAL CONTRACTOR & HEALTH DEPARTMENT COORDINATION NOTES			
FDP ITEM	FDP QTY	FDP DESCRIPTION	FDP REMARKS
101	1	AIR SCREEN	
102	1	COLD STORAGE ASSEMBLY	
103	1	COLD STORAGE REFRIGERATION SYSTEM	
104	2	COLD STORAGE SHELVING	
105	3	DUNNAGE RACK	
107	1	DRY STORAGE SHELVING	
108	1	CAN RACK	
109	1	ICE MAKER W/ BIN	
110B	1	STACKED WASHER/DRYER	
111	1	CHEMICAL SHELF	
121	1	TWO COMPARTMENT SINK W/DISPOSER	
123	2	DISPOSER-CONE MOUNT	
124	1	WORKTABLE W/ OVERSHELF	
125	1	20 QT. MIXER W/STAND	
126	1	WORKTABLE W. SINK	
127	1	SLICER W/STAND	
128	6	UTILITY CART	
129	1	WORKTABLE W/S.BAR UT.RACK	
136	1	BAKER'S TABLE	
138	7	PAN RACK	
139	1	INSUL MOBILE PROOFER	
151	2	FIRE PROTECTION SYSTEM	
152	1	EXHAUST HOOD	
153	1	EXHAUST HOOD	
161	2	CONVECTION OVEN	
162	1	CONVECTION STEAMER	
163	1	30 GA.TILT BRAISING PAN-MANUAL TILT	
165	1	TWO BURNER RANGE	
167	1	MOBILE WORKTABLE	
172	1	COMBI OVEN	
187	3	PASS-THRU HEATED CABINET- 2DR	
188	3	PASS-THRU REFRIGERATOR - 1DR	
196	1	BACK COUNTER	
201	1	SERVING COUNTER	
209	1	DROP FRONT MILK COOLER - 8 CASE	
211	1	DROP FRONT MILK COOLER - 12 CASE	
213	2	MOBILE ICE CREAM DISPENSER	
214	3	CASH REGISTER	OWNER FURNISHED
217	1	SERVING COUNTER	
218	1	SERVING COUNTER	
249	1	THREE COMPARTMENT SINK	
250	1	DISHMACHINE	
252	1	BOOSTER HEATER	
254	2	SOILED & CLEAN DISHTABLE	
255	2	MOBILE UTENSIL SHELF	
614	1	FILL FAUCET	
615	3	VIDEO MONITOR SYSTEM	
646	1	CUP DISPENSER	
647	1	TEA/COFFEE BREWER	
651	1	ICE DISPENSER	
676	1	GAS STEAM TILTING KETTLE	

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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FS EQUIPMENT PLAN

VOLUME 02

Job No.	Sheet No.
00802-04-01	QF1.0
Drawn By: UK	
Date: 07.15.26	

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

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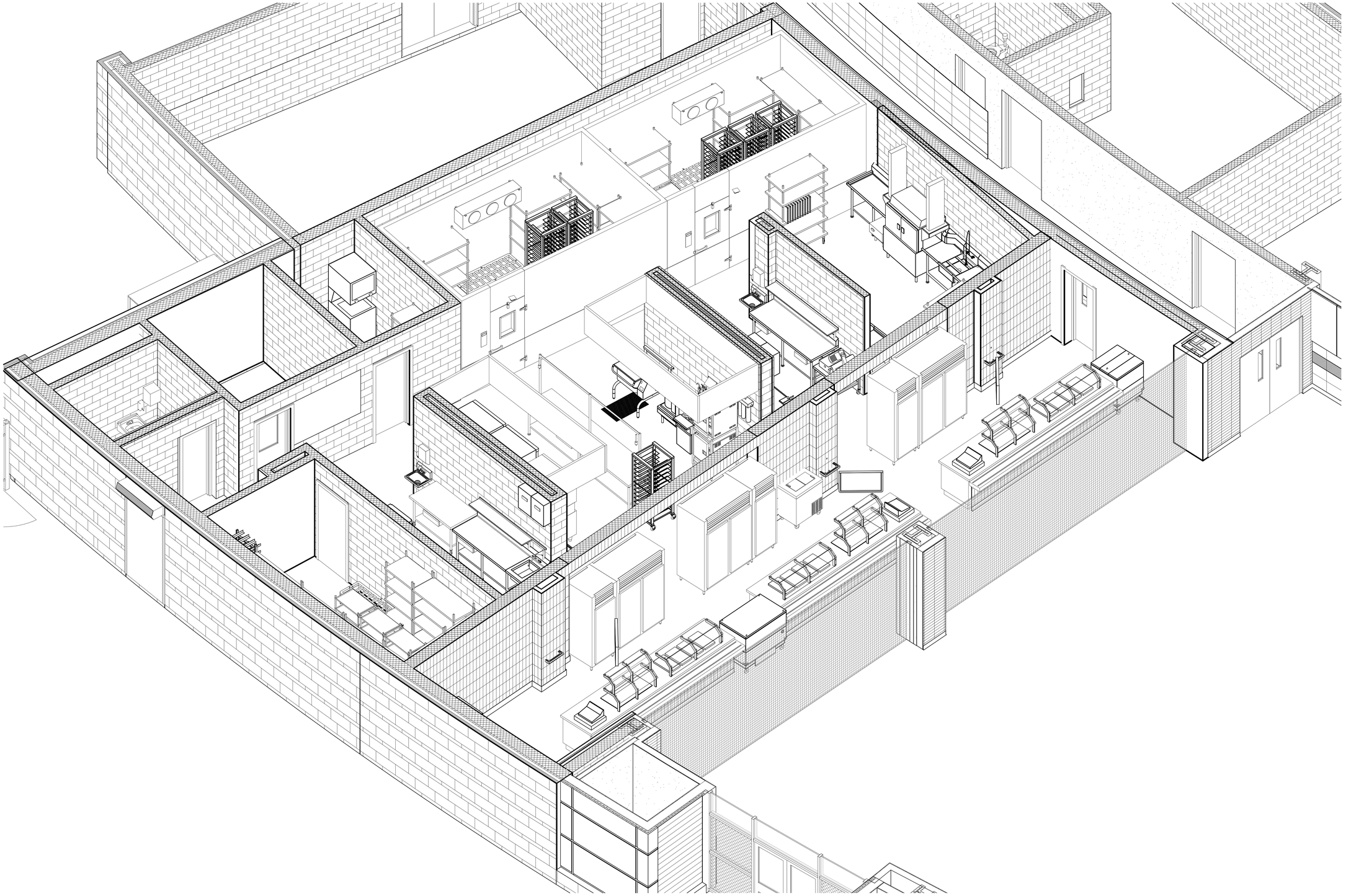

1 FS FACILITY MODEL

0' 2' 4' 8' 16'

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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FS FACILITY MODEL
VOLUME 02

Job No.	Sheet No.
03802-04-01	QF1.1
Drawn By: LK	
Date: 07.15.26	

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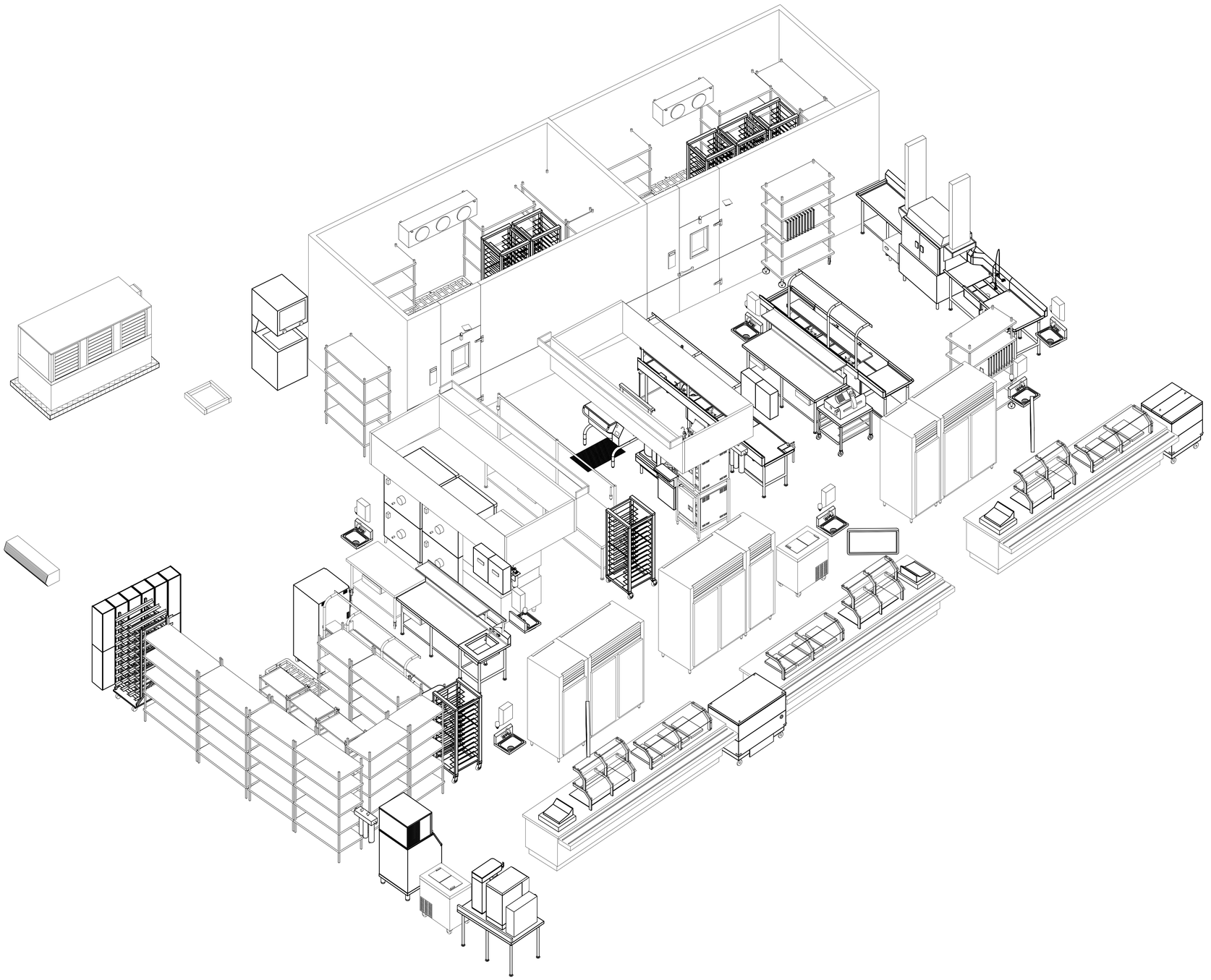

1 FS EQUIPMENT MODEL

0' 2' 4' 8' 16'

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
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FS EQUIPMENT MODEL

VOLUME 02

Job No. 00802-04-01	Sheet No. QF1.2
Drawn By: LK	
Date: 07.15.26	

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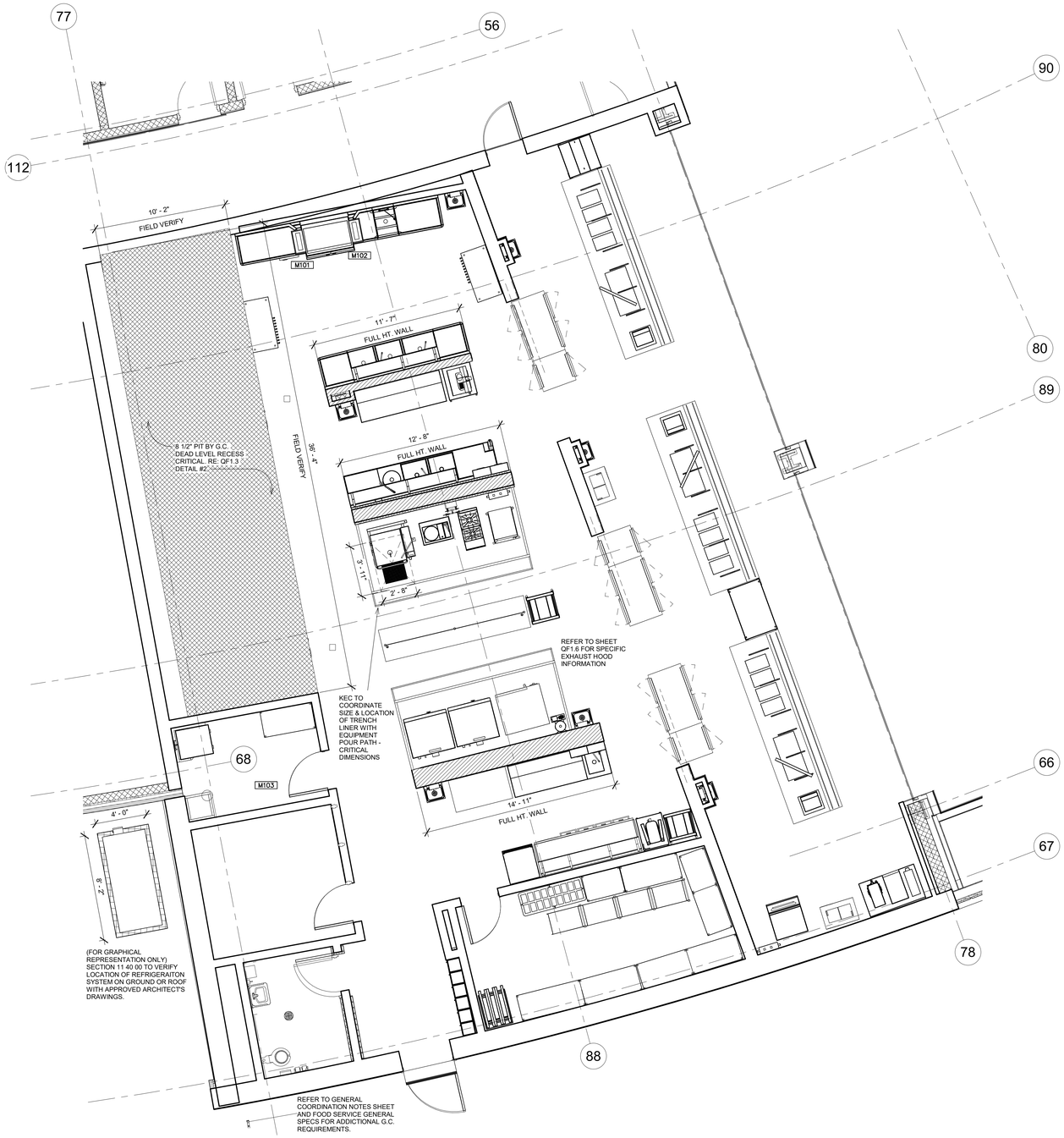
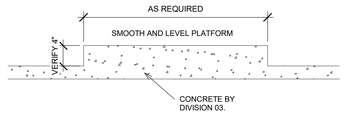
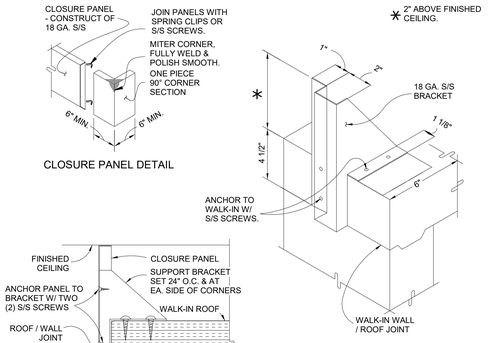
FOOD SERVICE MECHANICAL SCHEDULE						
REFER TO SHEET QF1 FOR MECHANICAL COORDINATION NOTES						
FDP NO.	FDP QTY	FDP TYPE	FDP SIZE	FDP LOC	FDP CFM	FDP S.P.
M101	1	EXHAUST	4" X 16"	CLG	400	0.30"
M102	1	EXHAUST	4" X 16"	CLG	800	0.30"
M103	1	EXHAUST	4" DIAMETER	WALL	GRAVITY	---



1 FOOD SERVICE SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

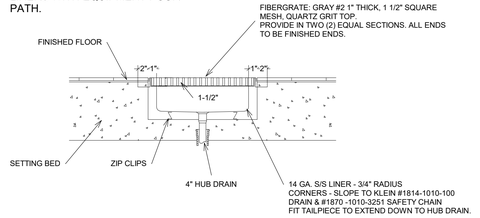


4 COLD STORAGE ASSEMBLY REFRIGERATION SYSTEM GROUND MOUNT 4" PLATFORM DETAIL
NOT TO SCALE



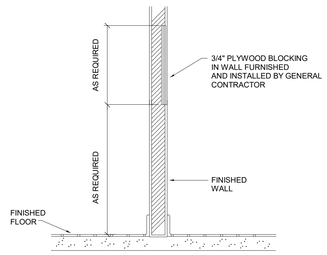
3 COLD STORAGE ASSEMBLY ENCLOSURE PANEL DETAIL
NOT TO SCALE

NOTE:
SECTION 11 40 00 TO COORDINATE FINAL LOCATION OF ALL TRENCH LINERS WITH EQUIPMENT POUR PATH.

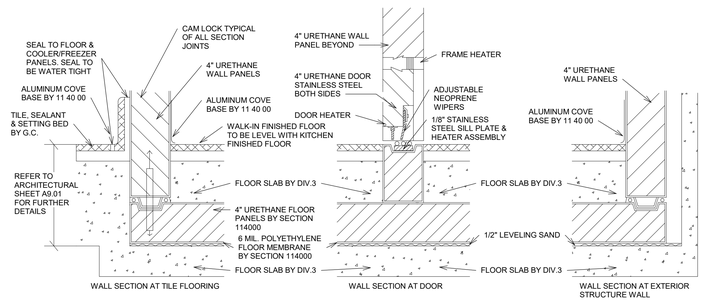


6 TRENCH LINER DETAIL
NOT TO SCALE

NOTE:
SECTION 11 40 00 TO COORDINATE FINAL LOCATION AND SIZE OF WALL BLOCKING.



5 WALL BLOCKING DETAIL
NOT TO SCALE



NOTE:
FLOOR SLAB COLD STORAGE ASSEMBLIES TO BE DEAD LEVEL
REFER TO SPECIFICATIONS FOR EXTERIOR/INTERIOR FINISH OF WALL PANELS.

2 COLD STORAGE ASSEMBLY 8 1/2" DEPRESSION DETAIL
NOT TO SCALE

0' 2' 4' 8' 16'

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FS SPECIAL CONDITIONS & MECHANICAL PLAN

VOLUME 02

Job No.	Sheet No.
00802-04-01	QF1.3
Drawn By: LK	
Date: 07.15.26	

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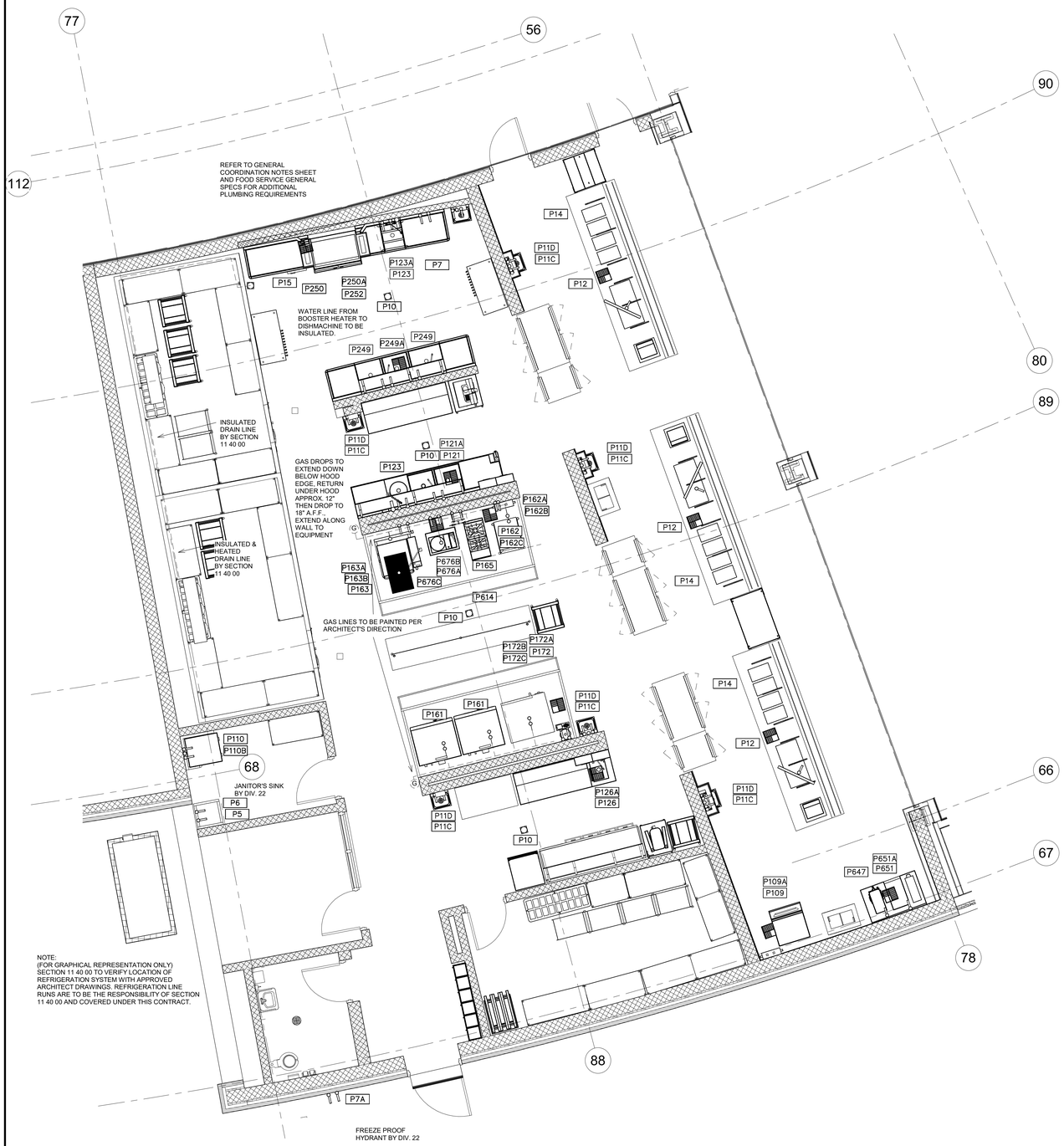
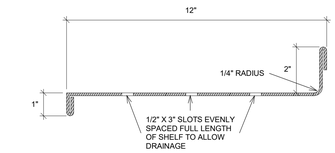
○	HW	HOT WATER	⊡	FFD	FUNNEL FLOOR DRAIN
○	CW	COLD WATER	◣	EVC	EXHAUST VENT CONNECTION
○	HTW	180 F HOT WATER	⋈	SVC	SUPPLY VENT CONNECTION
◍		CHILLED WATER	◖	FR	DIRECT-CONNECTED FLUE RISER
●	W	DIRECT WASTE	⊕	PS	PIPE SLEEVE
○	IW	INDIRECT WASTE	⊙		COMPRESSED AIR
⊙		GAS SUPPLY	♦		CO2
◕		STEAM SUPPLY		AFF	ABOVE FINISHED FLOOR
⊗	CR	CONDENSATE RETURN		BTC	BRANCH TO CONN. ON EQUIP
◉	DR	DRAIN		DFA	DROP FROM ABOVE
□	FD	FLOOR DRAIN		CLG	CEILING
▦	FST	FLOOR SINK 3/4 GRATE			
▥	FSH	FLOOR SINK 3/4 GRATE			

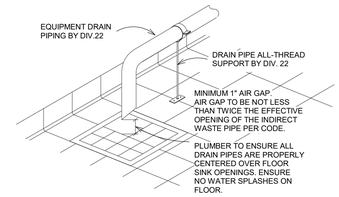
2 PLUMBING SYMBOLS
NOT TO SCALE



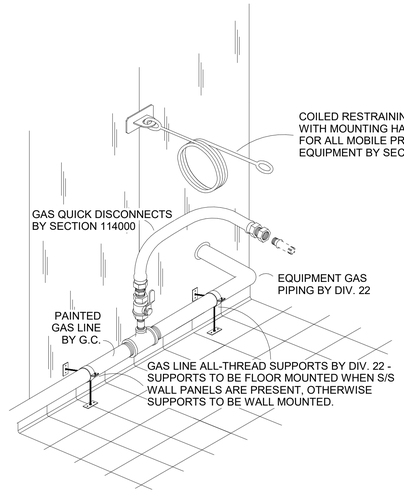
1 FOOD SERVICE PLUMBING PLAN
1/4" = 1'-0"



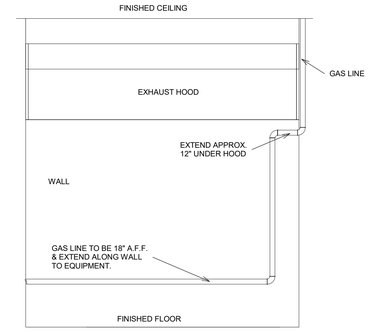
8 WAREWASH - PERFORATED OVER SHELF DETAIL
NOT TO SCALE



5 DRAIN PIPING FASTENER DETAIL
NOT TO SCALE



3 GAS DISCONNECT DETAIL1
NOT TO SCALE



7 EXHAUST HOOD - GAS LINE ROUTING DETAIL
NOT TO SCALE

FOOD SERVICE PLUMBING SCHEDULE

REFER TO SHEET QF1 FOR PLUMBING COORDINATION NOTES

FDP PNO	FDP PSIZE	FDP PCONN	FDP PSERVICE TO	FDP PLOC	FDP PAFF	FDP PREMARKS
						<varies>
P5	3/4"	H & C WATER	JANITOR SINK	WALL	48"	BTC
P6	4"	FLOOR DRAIN	JANITOR SINK	FLOOR	VERIFY	BTC
P7	1/2"	H & C WATER	HOSE BIBB	WALL	30"	BTC
P7A	3/4"	H & C WATER	FREEZE PROOF HYDRANT	WALL	48"	BTC; PROVIDED BY DIV. 22
P10	VERIFY	FLOOR DRAIN	GENERAL AREA DRAIN	FLOOR	VERIFY	---
P11C	1/2"	H & C WATER	FAUCET	WALL	18"	FURNISHED & INSTALLED BY DIV. 22
P11D	1 1/2"	DIRECT DRAIN	HAND SINK	WALL	15"	FURNISHED & INSTALLED BY DIV. 22
P12	12"SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE
P14	1/2"	COLD WATER	FILL FAUCET	FLOOR	6"	BTC
P15	4"	FLOOR DRAIN	FUNNEL FLOOR DRAIN	FLOOR	0"	---
P109	3/4"	COLD WATER	WATER FILTER / ICE	WALL	60"	BTC
P109A	12"SQ.	FLOOR SINKS	ICE MACHINE	FLOOR	0"	3/4 GRATE
P110	3/4"	H & C WATER	CLOTHES WASHER	WALL	48"	BTC; VALVE BOX
P110B	2"	INDIRECT DRAIN	CLOTHES WASHER	WALL	48"	VALVE BOX
P121	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P121A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	3/4 GRATE
P123	3/4"	H & C WATER	FAUCET / DISPOSER	WALL	13"	BTC
P123A	2"	DIRECT DRAIN	DISPOSER	WALL	10"	BTC
P126	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P126A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	3/4 GRATE
P161	(2)3/4"	NATURAL GAS	CONVECTION OVEN	WALL	18"/36"	BTC; 60 MBTU/HR EACH
P162	12" SQ.	FLOOR SINK	CONVECTION STEAMER	FLOOR	0"	3/4 GRATE
P162A	3/4"	COLD WATER	CONVECTION STEAMER	WALL	18"	BTC; INTERCONNECT THRU WATER FILTER
P162B	3/4"	COLD WATER	CONVECTION STEAMER	WALL	18"	BTC
P162C	(2)3/4"	NATURAL GAS	CONVECTION STEAMER	WALL	24" / 60"	BTC; 96 / 98 MBTU/HR RESPECTIVELY
P163	4"	HUB DRAIN	TRENCH LINER	FLOOR	-9"	BTC; CRITICAL LOCATION
P163A	3/4"	NATURAL GAS	TILT BRAISING PAN	WALL	18"	BTC; 104 MBTU/HR
P163B	3/4"	H & C WATER	TILT BRAISING PAN	WALL	36"	BTC
P165	1"	NATURAL GAS	RANGE	WALL	18"	BTC: 70 MBTU/HR
P172	3/4"	COLD WATER	COMBI OVEN	WALL	24"	BTC; INTERCONNECT THRU FILTERS
P172A	3/4"	COLD WATER	COMBI OVEN	WALL	24"	BTC
P172B	12" SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE
P172C	(2)3/4"	NATURAL GAS	COMBI OVEN	WALL	18"/36"	BTC: 106.5 MBTU/HR EACH
P249	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P249A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	THREE QUARTER GRATE
P250	12" SQ.	FLOOR SINK	DISHMACHINE	FLOOR	0"	BTC
P250A	3/4"	COLD WATER	DRAIN TEMPERING	WALL	18"	BTC
P252	3/4"	HOT WATER	INTERNAL BOOSTER HEATER	WALL	18"	EXT. THRU W.FILTER TO BOOSTER/DISHMACHINE - 140 DEG. MIN.
P614	1/2"	H & C WATER	FILL FAUCET	WALL	42"	BTC
P647	1/2"	COLD WATER	TEA/COFFEE BREWER	WALL	18"	BTC
P651	1/2"	COLD WATER	ICE MAKER	WALL	18"	BTC
P651A	12"SQ.	FLOOR SINKS	ICE DISPENSER	FLOOR	0"	3/4 GRATE
P676A	1/2"	H & C WATER	STEAM KETTLE	WALL	18"	BTC
P676B	3/4"	NATURAL GAS	STEAM KETTLE	WALL	18"	BTC; 34 MBTU/HR
P676C	12" SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE

0' 2' 4' 8' 16'

Revision / Date

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FS PLUMBING PLAN

VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.4
Drawn By: LK
Date: 07.15.26

FOODSERVICE DESIGN PROFESSIONALS

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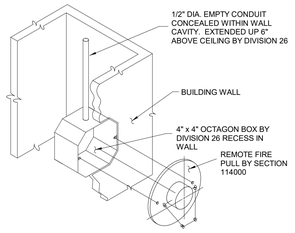
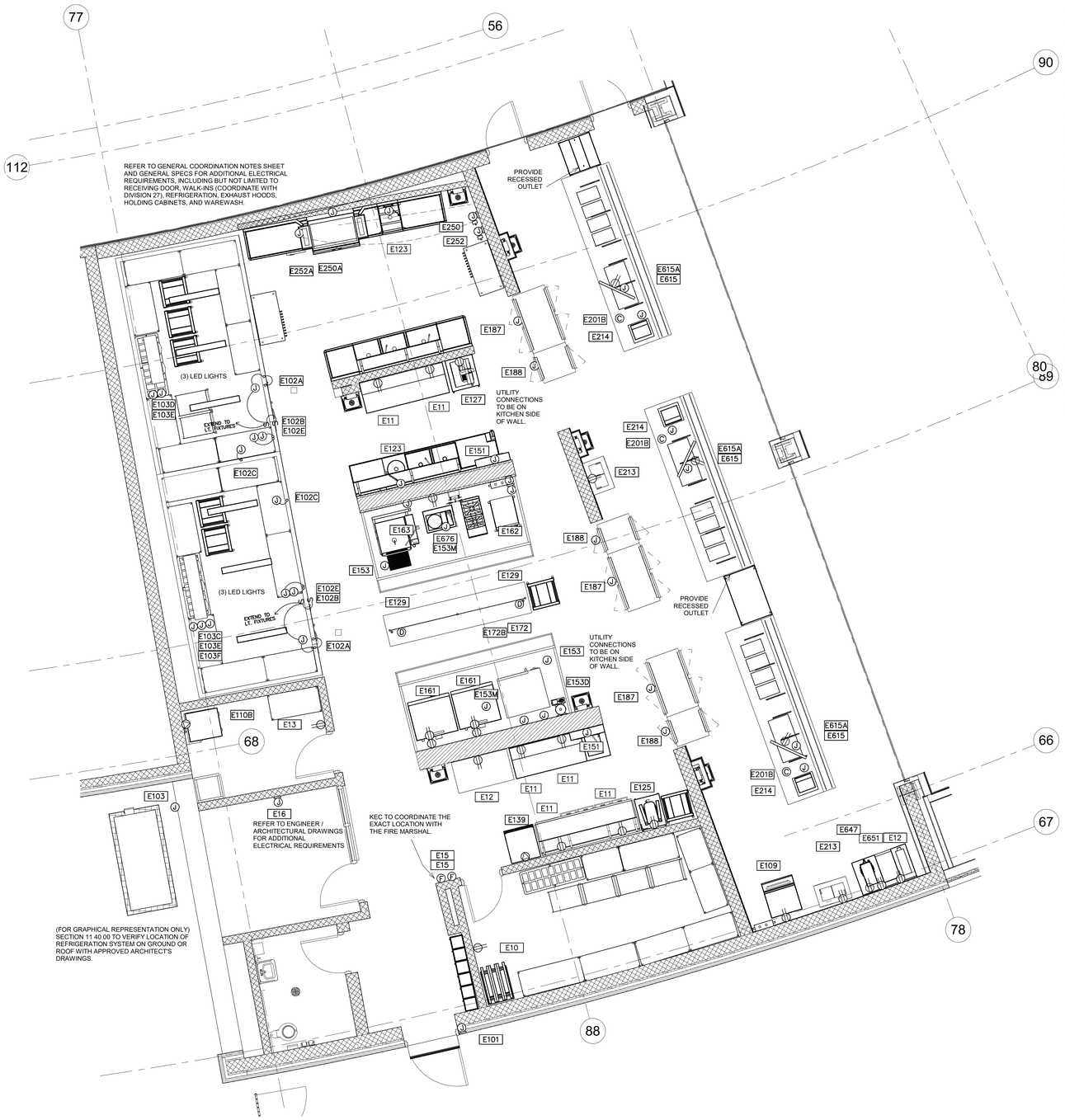
	SCR	CONDUIT STUB BTC ON RECEPT FURNISH WITH EQUIPMENT		CC	CONDUIT FOR COMPUTER CABLES
•	CS	CONDUIT STUB UP/OUT FOR DIRECT CONNECTION		BTC	BRANCH TO CONNECTION ON EQUIPMENT
	DR	DUPLEX RECEPTACLE		WPR	WATERPROOF RECEPTACLE (SPRING COVER)
	SR	SINGLE PURPOSE RECEPTACLE-1PH		FPB	FIRE PROTECTION BUZZER
	SR	SINGLE PURPOSE RECPTACLE-3PH		BSC	BEVERAGE SYSTEM CONDUIT
	FR	FLUSH FLOOR RECEPTACLE		DFA	DROP FROM ABOVE
	PMR	PEDESTAL MOUNTED RECEPTACLE		AFF	ABOVE FINISH FLOOR
	DCR	DROP CORD RECEPTACLE		CSJB	JUNCTION BOX ON PEDESTAL
	JB	JUNCTION BOX ON CEILING		SW	SWITCH
	JB	JUNCTION BOX IN WALL		D	DATA
	JB/DS	JUNCTION BOX WITH DISCONNECT BY DIV.26			

2 ELECTRICAL SYMBOLS
NOT TO SCALE



5 FIRE PROTECTION SYSTEM RECESSED FIRE PULL DETAIL
NOT TO SCALE

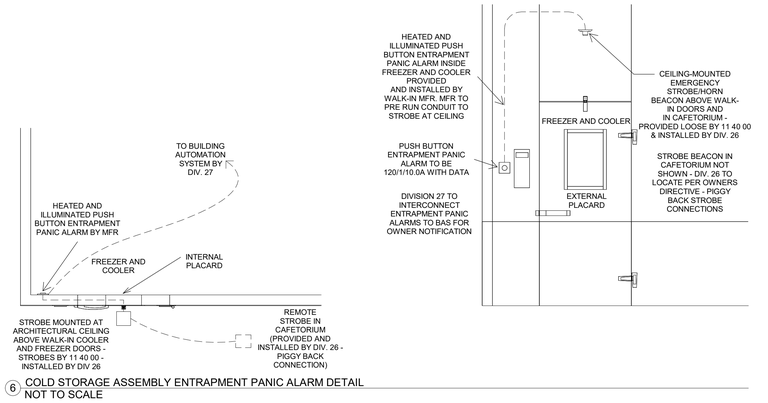


1 FOOD SERVICE ELECTRICAL PLAN
1/4" = 1'-0"

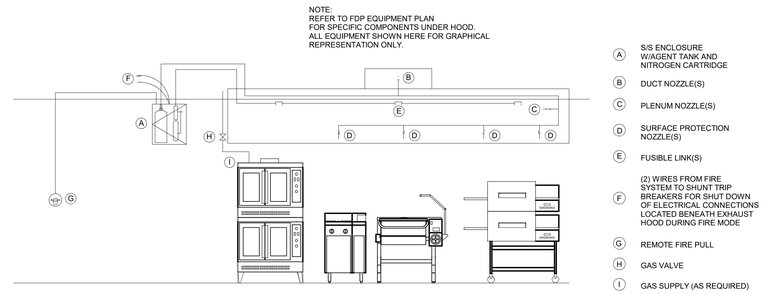
FOOD SERVICE ELECTRICAL SCHEDULE

REFER TO SHEET QF1 FOR ELECTRICAL COORDINATION NOTES

FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP EREMARKS
E10	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	24"	---
E11	DR	16.0A	120	1	CONVENIENCE	WALL	47"	MOUNT HORIZONTAL
E12	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	47"	---
E13	WPR	16.0A	120	1	CONVENIENCE OUTLET	WALL	48"	---
E15	JB	---	---	---	REMOTE FIRE PULL	WALL	48"	BTC; RECESSED JB - EXTEND TO FIRE SYSTEM FOR HOOD
E16	JB	---	---	---	POS SYSTEM	VERIFY	---	BTC; EMPTY CONDUIT W/PULL WIRES, EXTEND TO CASH REGISTERS
E101	JB	8.1A	120	1	AIR SCREEN	WALL	94"	BTC; MAGNETIC REED SWITCH ON DOOR JAMB & DOOR
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC; INTERCONNECT TO STROBE LIGHT/HORN ABOVE COOLER/FREEZER DOOR AND IN CAFETORIUM
E103	JB	37.0A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC: WEATHERPROOF DISCONNECT SWITCH
E103C	JB	11.9A	208	1	FREEZER COIL	CLG	DFA	BTC; WIRE THRU KE2 DOOR SWITCH & PANIC ALARM
E103D	JB	2.0A	120	1	COOLER COIL	CLG	DFA	BTC; WIRE THRU KE2 DOOR SWITCH & PANIC ALARM
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E109	DR	11.9A	120	1	ICE MACHINE	WALL	60"	---
E110B	SR	30.0A	120/240	1	STACKED WASHER DRYER	WALL	48"	VERIFY NEMA PLUG RECEPTACLE
E123	JB	3.0HP	208	3	DISPOSER	WALL	24"	BTC
E125	DR	8.0A	120	1	20 QT. MIXER	WALL	24"	---
E127	DR	5.6A	120	1	SLICER	WALL	24"	---
E129	DCR	16.0A	120	1	TABLE RECEPTACLE	CLG	84"	TWISTLOCK PLUG & RECEPTACLE
E139	SR	15.0A	120	1	INSUL. MOBILE PROOFER	WALL	47"	---
E151	JB	1.0A	120	1	FIRE PROT. SYSTEM	CLG	DFA	BTC
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC
E153D	JB	---	---	---	DATA CONNECTION	WALL	30"	BTC; RUN TO NEAREST IDF / MDF ROOM
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC
E161	(2)DR	6.0A EA.	120	1	CONVECTION OVEN	WALL	24"/48"	SHUNT TRIP BREAKER
E162	(2) JB	1.5A EA.	120	1	CONVECTION STEAMER	WALL	24" / 60"	BTC: SHUNT TRIP BREAKER
E163	JB	5.0A	120	1	TILT BRAISING PAN	WALL	24"	BTC; SHUNT TRIP BREAKER
E172	JB	16.5A	120	1	CONVECTION STEAMER	WALL	48"	SHUNT TRIP BREAKER
E172B	JB	6.8A	120	1	CONVECTION STEAMER	WALL	24"	SHUNT TRIP BREAKER
E187	JB	15.5A	120/208	1	HEATED CABINET	WALL	96"	BTC; MOUNT ON KITCHEN SIDE
E188	JB	7.2A	120	1	REFRIGERATOR	WALL	96"	BTC; MOUNT ON KITCHEN SIDE-OMIT PLUG, UNIT TO BE HARDWIRED
E201B	CS	24.3A	120/208	3	LOAD CENTER	FLOOR	6"	BTC
E213	DR	2.1A	120	1	ICE CREAM DISPENSER	WALL	24"	---
E214	DR	16.0A	120	1	CASH REGISTER	WALL	24"	DEDICATED CIRCUIT
E250	JB/DS	27.9A	480	3	DISHMACHINE	WALL	54"	BTC; INTERCONNECT TO E250A
E250A	JB	---	---	---	DISHMACHINE	WALL	68"	BTC; INTERCONNECT FROM E250
E252	JB/DS	40.1A	480	3	BOOSTER HEATER	WALL	54"	BTC; INTERCONNECT TO E252A
E252A	JB	---	---	---	BOOSTER HEATER	WALL	68"	BTC; INTERCONNECT FROM E252
E615	DR	5.0A	120	1	VIDEO / DATA SYSTEM	CLG	VERIFY	PROVIDE DCO AT VIDEO LOCATION
E615A	JB	---	---	---	VIDEO / DATA SYSTEM	CLG	VERIFY	PROVIDE JB AT DATA LOCATION
E647	DR	14.0A	120	1	TEA/COFFEE BREWER	WALL	47"	MOUNT HORIZONTAL
E651	DR	2.5A	120	1	ICE DISPENSER	WALL	47"	MOUNT HORIZONTAL
E676	DR	5.0A	120	1	STEAM KETTLE	WALL	24"	SHUNT TRIP BREAKER



6 COLD STORAGE ASSEMBLY ENTRAPMENT PANIC ALARM DETAIL
NOT TO SCALE



4 FIRE PROTECTION SYSTEM TYPICAL DETAIL
NOT TO SCALE

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48834119
PROFESSIONAL MEMBER
Melissa Moore
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 48834119 ON: 1/31/2026

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FS ELECTRICAL PLAN

VOLUME 02

Job No.	Sheet No.
00802-04-01	QF1.5
Drawn By: LK	
Date: 07.15.26	

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_FOOD.rvt
7/15/2026 10:04:50 AM

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AUTO START THERMAL SENSOR ASTS-90 STANDARD WIRING CONFIGURATIONS

MOD-U-SERVE WILL PROVIDE THE FOLLOWING:

- (1) J- BOX 1'-0" FROM END OF HOOD ON HOODS 5'-0" OR GREATER IN LENGTH
- ¾" EMT FROM FIRST ASTS.90 TO J- BOX WILL BE FACTORY INSTALLED WITH WIRE RAN
- THE WIRE AND THE ¾" EMT BETWEEN CONTINUOUS CAPTURE HOOD SECTIONS

INSTALLER / ELECTRICAL SCOPE OF WORK:

- INSTALL THE PROVIDED ¾" EMT BETWEEN HOOD SECTIONS
- PULL THE PROVIDED WIRES THROUGH THE PROVIDED EMT TO CONNECT THE SENSORS OVER CONTINUOUS CAPTURE FIELD JOINTS
- BRING POWER TO J- BOX LOCATED ON HOOD AND MAKE FINAL CONNECTIONS
- WALL SWITCHES AND HEAT SENSORS WIRED PARALLEL

*** WALL SWITCHES AND FAN STARTERS NOT PROVIDED BY MOD-U-SERVE WHEN ASTS.90 HEAT SENSOR HOODS ARE REQUIRED ***

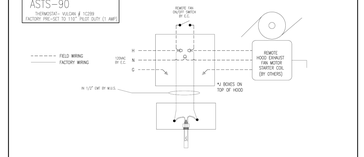
SCAN THE QR CODE FOR INSTALLATION GUIDE

ASTS-90 HEAT SENSOR INSTALLATION VIDEO

AUTO START THERMAL SENSOR ASTS-90

THERMOSTAT- VULCAN # 1C289
FACTORY PRE-SET TO 110° PILOT DUTY (1 AMP)

SINGLE HOOD CKT



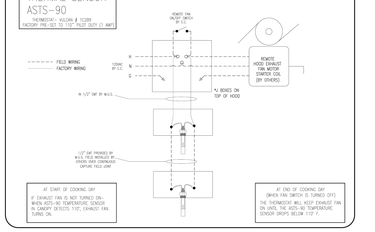
AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON- WHEN ASTS-90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY (WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS-90 TEMPERATURE SENSOR DROPS BELOW 110° F.

AUTO START THERMAL SENSOR ASTS-90

THERMOSTAT- VULCAN # 1C289
FACTORY PRE-SET TO 110° PILOT DUTY (1 AMP)

DOUBLE HOOD CKT



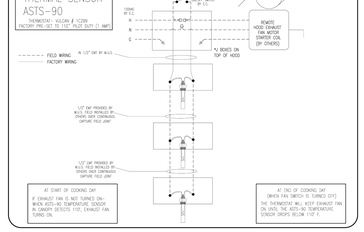
AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON- WHEN ASTS-90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY (WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS-90 TEMPERATURE SENSOR DROPS BELOW 110° F.

AUTO START THERMAL SENSOR ASTS-90

THERMOSTAT- VULCAN # 1C289
FACTORY PRE-SET TO 110° PILOT DUTY (1 AMP)

TRIPLE HOOD CKT



AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON- WHEN ASTS-90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY (WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS-90 TEMPERATURE SENSOR DROPS BELOW 110° F.

UL FILE # MH 30031
MOD U SERVE NSF Air Systems
1720 PEYTON ROAD
HOUSTON, TEXAS 77032
281. 442. 8001

ASTS90 HEAT SENSORS
MOD-U-SERVE

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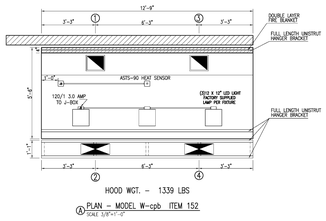
COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

DRAWN JO
CHECKED ADC
DATE July 29, 2025
SHEET 1 OF 1 SHEET

304 STAINLESS STEEL USED FOR HOOD CONSTRUCTION AND ALL EXPOSED AREAS

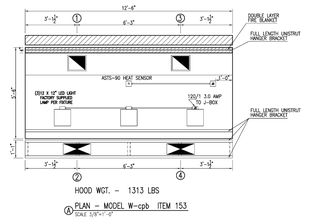
HOODS DESIGNED TO MEET TO THE 2015 ICC C403.2.8, 2018 ICC AND 2021 ECC C403.7.5 USING OPTION 1 PROVIDED BY THE CODES.

NOTE TO G.C. AND CEILING GRID INSTALLERS :
FASTENERS FOR CEILING GRID SURROUNDING KITCHEN HOOD MUST NOT PENETRATE HOOD CAPTURE AREA OR HOOD GREASE PLENUM. IMPROPER PENETRATIONS THROUGH HOOD IN THESE AREAS VIOLATE HOOD U.L. PROCEDURE AND LOCAL MECHANICAL CODE.



HOOD WGT. – 1339 LBS

A PLAN – MODEL W-cpb ITEM 152
SCALE 3/8"=1'-0"



HOOD WGT. – 1313 LBS

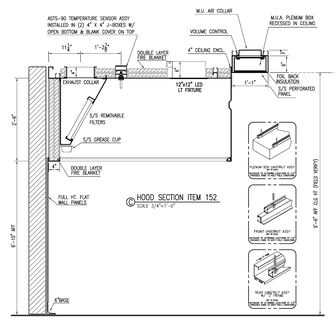
B PLAN – MODEL W-cpb ITEM 153
SCALE 3/8"=1'-0"

EXHAUST COLLAR CHART						
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
1	10" X 12"	210	1339	1607	.50"
3	10" X 12"	210	1339	1607	.50"

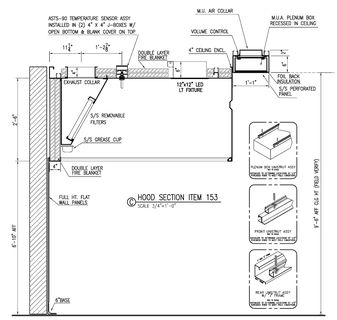
SUPPLY COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
2	8" X 21"	100	638	547	.30"
4	8" X 21"	100	638	547	.30"

EXHAUST COLLAR CHART						
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
1	10" X 12"	210	1313	1576	.50"
3	10" X 12"	210	1313	1576	.50"

SUPPLY COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
2	8" X 20"	100	625	563	.30"
4	8" X 20"	100	625	563	.30"



C HOOD SECTION ITEM 152
SCALE 3/4"=1'-0"



D HOOD SECTION ITEM 153
SCALE 3/4"=1'-0"

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COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

DRAWING # D26-2044-1.152
DRAWN BY JO
CHECKED BY ADC
DATE May 4, 2026
SHEET 1 OF 1 SHEET

Revision / Date

Project:
TOMBALL ISD- TOMBALL IS REPLACEMENT FDP
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
FCSI 488541119
PROFESSIONAL MEMBER
Melissa Moore
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 488541119 ON 10/13/2022

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FS EXHAUST HOODS
PACKAGE VOLUME 02

Job No. 03802-04-01	Sheet No. QF1.6
Drawn By: LK	
Date: 07.15.26	

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

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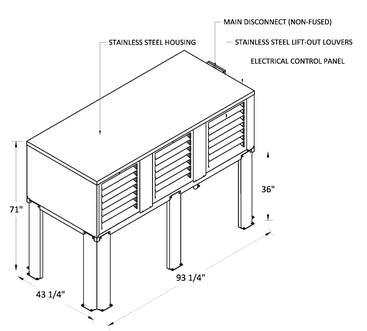
MODEL NO. ROAM01014L01015T3F OUTDOOR AIR COOLED REFRIGERATION SYSTEM
ITEM NO. 103



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH
- 36" STAND - SHIPPED LOOSE
- DOOR SWITCH (QTY.2) - SHIPPED LOOSE
- 5 PORT DATA SWITCH (FOR CONNECTION TO KE2 SMART ACCESS) (QTY.1) - SHIPPED LOOSE
- EM PLUS W/ BACNET (FOR CONNECTION TO KE2 SMART ACCESS) (QTY.1) - SHIPPED LOOSE

RACK WEIGHT: 775 LBS.

ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3
CONNECTED LOAD: 37.0 AMPS

MOPD: 50 AMP
MINIMUM CIRCUIT AMPACITY: 41.9

SYSTEM	ITEM #	DESCRIPTION	FIXTURES: TEMP °F FIXT.	FIXTURES: TEMP °F SUCT.	REQ'D FIXTURE BTU/H	REFRIG. R-	CONDENSING UNIT: COMPRESSOR MODEL NO.	RATING @ 60 HZ RLA	V	PH	BTU CAP @ AMB °F 110	TYPE	ESTMATED REFRIGERANT CHARGE	CONDENSER	EVAPORATOR COILS: ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	V	PH	HEATERS @ 60 HZ RLA	V	PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	ACCESSORIES: CONTROLLER QTY	TSTAT	SOL VALVE	EXP. VLV.	CHECK VLV.	SHUT-OFF VLV.	REFRIGERANT LINE SIZES (IN): SUCT.	SUCT. LINE RISER	LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD
A	102	WALK-IN COOLER	35	25	13607	454A	YS14KAE	12.2	208	3	16400	Z	10.7	L1R	103	KLP215MA	1	2.0	115	1				O.C.	ECOSMART	1	F	F	EF	L	L	7/8	5/8	3/8	100	M	12.2
B	102	WALK-IN FREEZER	-10	-20	15519	454A	YF15KAE	24.8	208	3	16200	Z	16.0	L5R	103	KLP316LE	1	1.8	208	1	11.9	208	1	ELEC	ECOSMART	1	F	F	EF	L	L	7/8	7/8	3/8	100	M	24.8

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

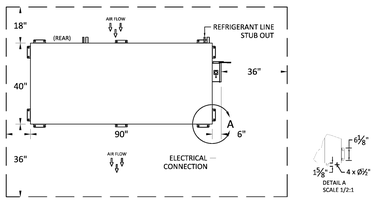
COMPRESSOR TYPE
Z SCROLL

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN - UP TO 100'

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

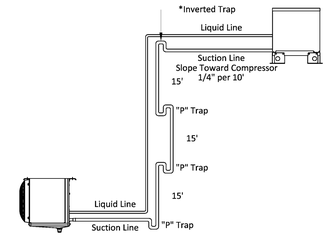
PLANVIEW/ CLEARANCE REQUIREMENTS



NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

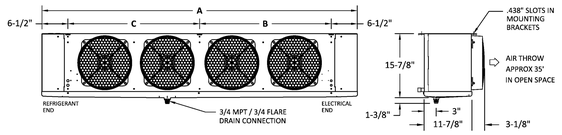
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

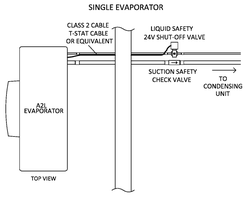
EVAPORATOR DETAILS - MODEL KLP



AIR DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
215MA	46-1/4	33-1/4	-	1/2 OD	7/8 ID	3/4	78	2	2.0	1.2

ELECTRIC DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/3
316LE	62-1/4	49-1/4	-	1/2 OD	1-1/8 ID	3/4	115	3	1.8	11.9	7.7	N/A

EVAPORATOR RDS PIPING DIAGRAM



EACH EVAPORATOR COIL:
- EQUIPPED WITH TWO LEAK SENSORS, PRE-MOUNTED AND PRE-WIRED
- SUPPLIED WITH A LIQUID LINE SHUT-OFF VALVE AND SUCTION LINE CHECK VALVE, SHIPPED LOOSE FOR FIELD INSTALL, LOCATED OUTSIDE OF COMPARTMENTS AND NO MORE THAN 10' FROM EVAPORATOR COIL.

PREMIERPAK ENGINEERING SPECS.

Multi or Single compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "PREMIERPAK", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75168. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System

The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact powder coated steel frame. The entire housing shall be brushed stainless steel. The unit shall include an air-cooled aluminum fin copper tube condenser designed to operate at 10° - 20° TD. The exterior housing shall feature stainless steel one piece louvers. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. The condenser intake surface shall be protected with stainless steel louvered guard to protect against vandalism and hail damage. Refrigeration system shall operate with the refrigerant specified in the RDT engineering schedule.

The refrigeration system shall be included with the following components:
- Scroll Compressor
- Ball-Bearing Fan Motor
- Suction Filter
- Liquid Drier/Filter
- Sight Glass
- Fan Cycling Controls
- Head Pressure Controls
- Crankcase Heaters
- ½" Armaflex insulation on all suction lines
- Oil Separator (When Required)
- Oil Reservoir (When Required)
- Oil Control System/OMC (When Required)
- Suction Accumulator (When Required)

2. Pre Piping

All refrigerant lines shall be extend to the outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps. All joints must be brazed not soldered. All piping and controls shall be factory pressure-tested with dry nitrogen.

3. Control Panel

U.L.-Listed and Labeled pre-wired control panel complete with circuit breakers, contactors wired for single point power connection. Main disconnect (non fused) where required.

4. Evaporator Coils

All Evaporators shall be direct expansion type, fabricated of copper tubes with aluminum fins and will include the following components:
- Factory-Mounted Solenoid Valve
- Factory-Mounted Electronic Expansion Valve
- Factory-Mounted Demand Defrost Controller w/Temperature sensors
- Factroy-Mounted Refrigerant Leak Detectors
- Shipped Loose Liquid Line Shut-off Valve
- Shipped Loose Suction Stop Valve

General Information

General contractor shall verify all dimensions onsite and coordinate with other trades. General contractor shall also prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor

All copper tubing shall be refrigerant grade A.C.R or type "L" and shall meet all local/federal installation codes for labeling. Silver solder or soft solder is not acceptable. All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi. The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation. Refrigeration contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. **Any isolation valves required in the line set apart from the refrigeration rack system will be supplied by the installation contractor, not RDT.**

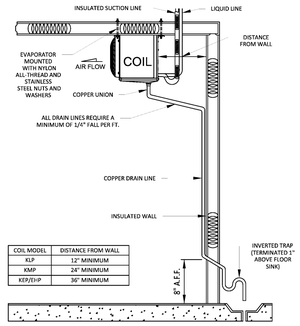
Electrical Contractor

Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram. Electrical contractor to connect drain-line heater in the freezer. All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Electrical contractor shall seal all penetrations through the walk-in units with foam or silicone.

Plumbing Contractor

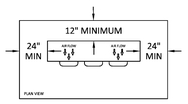
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Plumbing contractor to fit condensate drain lines with ¾" sweat union. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air. Plumbing contractor to provide individual drain-line for each evaporator unless other arrangements made. All plumbing installation shall be in accordance with local codes.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
KLP	12" MINIMUM
KMP	24" MINIMUM
KEP/EH-P	36" MINIMUM

EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - KLP)

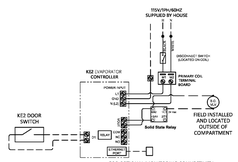


SINGLE EVAPORATOR

WIRING DIAGRAM - ECOSMART - AKEA1AE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN COOLER	115/1

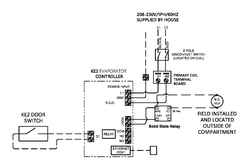


FACTORY WIRING ————
FIELD WIRING - - - - -

WIRING DIAGRAM - ECOSMART - AKEB1EE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN FREEZER	208/1



FACTORY WIRING ————
FIELD WIRING - - - - -

APPROVAL STATUS

THIS DRAWING REPRESENTS OUR UNDERSTANDING OF THE SPECIFICATIONS. PLEASE REVIEW IT CAREFULLY FOR ACCURACY. CLEARLY AND IN DETAIL NOTE CHANGES REQUIRED.

MARK APPROPRIATE BOX, SIGN, AND DATE BELOW.

☐ APPROVED FOR FABRICATION NO CHANGES
☐ APPROVED FOR FABRICATION WITH CHANGES NOTED
☐ REVISE AND RE-SUBMIT DRAWING

BY: _____ DATE: _____

NOTICE

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No.	Revision/Issue	Date
0	ORIGINAL ISSUE	4-28-26

REFRIGERATION DESIGN TECHNOLOGIES
1808 FM Road 66 / P.O. Box 622
Waxahachie, Texas
(800) 736-9518
www.rdtonline.com

Consultant:
Foodservice Design Professionals
Southlake, TX

Dealer
-
-

Tomball Intermediate Replacement
Tomball, TX

Project No: 33315
Designed By: B. Colton
Drawn By: B. Colton

Sheet 1.1 of sheets

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48854119
PROFESSIONAL MEMBER
Melissa Moore
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO.48854119 ON 1/31/2026

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FS CONDENSING UNITS
PACKAGE VOLUME 02
Job No. 20803-04-01
Drawn By: LK
Date: 07.15.26
Sheet No. QF1.7

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

7/15/2026 10:04:39 AM
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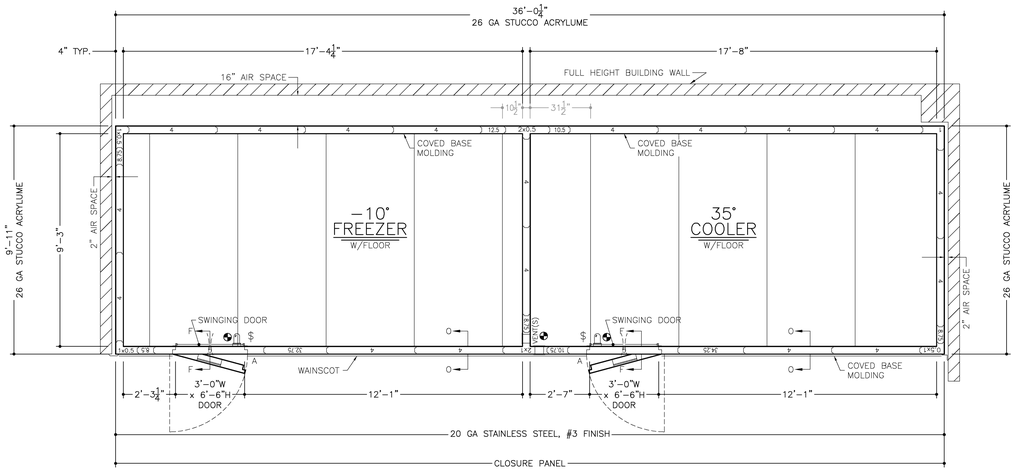

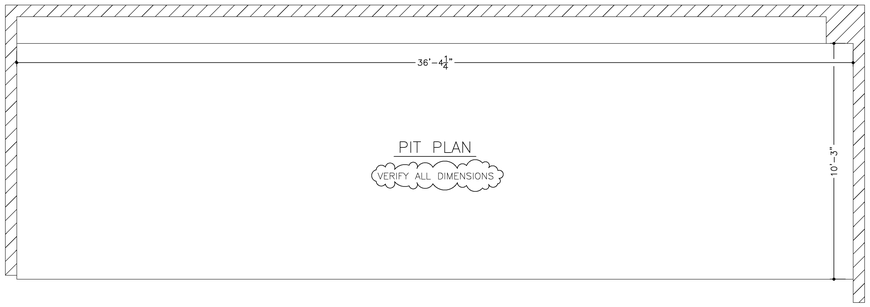

~SPECIFICATIONS~

BOX HEIGHT:
FREEZER – 10'-6" OVERALL (9'-6" INTERIOR)
COOLER – 10'-6" OVERALL (9'-6" INTERIOR)

CONSTRUCTION:
FOAMED IN PLACE
NSF LISTED, STANDARD NO. 7

INSULATION:
4" URETHANE, FINISHED PANEL
UL CLASSIFIED FLAME SPREAD 20
CORE SMOKE DEVELOPED 250

INSTALLATION:
INDOOR

FLOOR: (SEE DETAILS)
FREEZER – STANDARD
COOLER – STANDARD

DOOR HARDWARE & ACCESSORIES: (EACH DOOR)
SMOOTH POLISHED DOOR HARDWARE
POWER TO BE STUBBED OUT CEILING PANEL
DRY CONTACT LEADS TO BE STUBBED OUT CEILING PANEL IN A SEPARATE STUB OUT
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK
PROVISION & QUARTER TURN INSIDE RELEASE (EXTERIOR DOORS ONLY)
1/8" STAINLESS STEEL THRESHOLD COVER PLATE
14 GA STAINLESS STEEL SUB THRESHOLD
FRAME HEATER WIRE
HYDRAULIC DOOR CLOSER
IC+ WALK-IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING:
INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY
TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP., AND LOW TEMP. VISUAL AND AUDIO ALARM
F OR C TEMPERATURE SELECTION
INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)
DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)
HACCP PREVIEW VIA ONBOARD LCD SCREEN
HACCP DOWNLOAD VIA USB
WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED)
BATTERY BACKUP
TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
(FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE
POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)
AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL
ADAPTIVE SETTINGS
MOMENTARY BACK-TO-BACK LIGHT SWITCH W/PILOT
25' AIR TEMPERATURE PROBE
APOHLL CLOUD CONNECTIVITY TO ENABLE REMOTE MONITORING
ON MOBILE DEVICES AND PUSH NOTIFICATIONS FOR ALARMS
(INTERNET ENABLED WIFI NETWORK NEEDED)
DOOR SWITCH TO ENABLE DOOR AJAR ALARM, DOOR AJAR NOTIFICATION VIA EMAIL &/OR
EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS
KASON #1967-A57 ENTRAPMENT/PANIC ALARM
KASON SCREW-IN VAPOR PROOF LIGHT FIXTURE
W/9.5 WATT SYLVANIA LED BULB & GLOBE
CCI CLEAR VU SWINGING DOOR
2 – KASON #1346 ADJUSTABLE SPRING LOADED HINGES
HEATED VISION WINDOW (14" x 24")
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH (S & O/S DOOR & FRAME
4 – KASON #1832 PRESSURE RELIEF VENTS W/INDICATOR LIGHTS – FIELD INTERCONNECTION REQUIRED
(FOAMED IN PANEL – PER PLAN) (2–COOLER, 2–FREEZER)

PANEL MOUNTED ACCESSORIES:

ACCESSORIES: (SHIPPED LOOSE)
2 – PCS. TRIM ANGLE – 18 GA STAINLESS STEEL, #3 FINISH
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN) → VERIFY LENGTH
18 GA STAINLESS STEEL, #3 FINISH
6 – 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH
1/8" DIAMOND ALUMINUM TREAD PLATE WAINSCOT @ 36" HIGH (EXPOSED EXTERIOR ONLY)
ALUMINUM COVED BASE MOLDING (COMPLETE INTERIOR ONLY)
20 GA STAINLESS STEEL COVED BASE MOLDING (EXPOSED EXTERIOR ONLY)
2 – BAKELITE LABEL(S) (BLACK) ("FREEZER", "COOLER")
1 – BAKELITE LABEL (YELLOW W/BLACK LETTERING) ("VACUUM PRESSURE RELIEF")
1 – EMERGENCY PRESSURE RELEASE
6 MIL POLYETHYLENE VAPOR BARRIER
7 – BELL BOX(ES) & COVER PLATE(S)
2 – DOOR STOP(S)
3 – EDWARDS 880 SERIES STROBE BEACONS (1 – FREEZER & 2 – SHIPPED LOOSE)
2 – EXIT PROCEDURE PLACARD (4X4)
2 – ENTRY PROCEDURE PLACARD (8X10)

METAL FINISHES:
INTERIOR DOOR & FRAME – 20 GA STAINLESS STEEL, #3 FINISH
INTERIOR WALLS & CEILING – WHITE .040 STUCCO ALUMINUM
EXPOSED EXTERIOR – 20 GA STAINLESS STEEL, #3 FINISH
UNEXPOSED EXTERIOR – 26 GA STUCCO ACRYLUME
EXTERIOR FLOOR & CEILING – 26 GA STUCCO ACRYLUME
INTERIOR FLOOR – .100 SMOOTH ALUMINUM

REFRIGERATION: BY OTHERS

NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 57.5" x 118".
NOTE: THE LARGEST ROOF/FLOOR PANEL ON THIS JOB IS 46.5" x 119".
CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE
WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.
NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS,
SECTIONS, DETAILS AND SPECIFICATIONS
NOTE: MAXIMUM LIGHT CIRCUIT LOAD IS 1200W 120VAC TUNGSTEN,
5A 120VAC ELECTRONIC BALLAST. FOR HIGHER LOADS ADDITIONAL
LIGHT FIXTURES MUST BE CONTROLLED VIA RELAY (BY OTHERS).

ELECTRICAL DATA	
⏚ = POINT OF ELECTRICAL CONNECTIONS.	
WALK-IN DOORS:	115v/1ø – 350w *
PANEL MOUNTED ACC:	115v/1ø – 23w (EACH VENT)

*NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.

FREEZER DOOR	
DOOR FRAME KWHr/DAY	4.392

COOLER DOOR	
DOOR FRAME KWHr/DAY	2.424

WALK-IN PANEL R-8967		
BUILDING UNITS	R-8967	37M2
USA		
SURFACE BURNING CHARACTERISTICS		
MATERIAL DETAILS	"FLAME SPREAD"	"SMOKE DEVELOPED"
ALUMINUM PANELS, PAINTED OR UNPAINTED, 5" OR LESS	15	350
*GALVANIZED STEEL OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 5" OR LESS"	10	400 TO 500
CORE MATERIAL, 6" THICK	20	250

INSULATION R-VALUES		
PANEL TYPE	COOLER	FREEZER
4" WALLS, ROOFS	R-29	R-32
5" WALLS, ROOFS	R-36	R-40
FLOORS	R-25	R-28
DOORS	R-32	

THE WALK-IN MUST BE INSTALLED ON A PERFECTLY LEVEL AND FLAT SURFACE TO ENSURE PROPER ALIGNMENT AND SMOOTH DOOR OPERATION.

AMERICAN PANEL WALK-IN COOLERS AND FREEZERS COMPLY WITH THE 2024 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C403.11

THIS AMERICAN PANEL WALK-IN WILL BE MANUFACTURED TO UL & NSF REQUIREMENTS. AMERICAN PANEL ACCEPTS NO LIABILITY FOR LOCAL CODE REQUIREMENTS OF WHICH AMERICAN PANEL HAS NOT BEEN MADE AWARE OF IN WRITING PRIOR TO FABRICATION.

ITEM #WALK-IN COOLER/FREEZER

☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT
SIGNATURE _____
PRINT NAME _____
DATE _____

1) Please verify that door swing and location are correct.
2) If this walk-in is to be installed in a depression, or quarry tile is to be applied to the interior, depression depths or tile thickness must be specified to insure proper door height.
3) All site preparation, floor or slab construction, plumbing, electrical connections (including control wiring) by others.
4) ⏚ Electrical: 115–60–1 required above latch side of each door, through ceiling, to operate frame heater and light.
5) Special note to General Contractor and his Sub Contractor for quarry tile or concrete wearing floors: the sheet metal panel facings may be susceptible to staining due to excessive moisture created by hydration of concrete type materials. Therefore, it is absolutely necessary that each room be properly ventilated. Also note that special precautions must be taken when using muriatic acid due to effects hydrochloric acid fumes have on aluminum and stainless steel.
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AMERICAN PANEL CORPORATION
5800 S.E. 78th St. Ocala, Florida 34472
Ph. (352) 245-7055 Fax (352) 245-0726

CUSTOMER: FOODSERVICE DESIGN PROFESSIONALS
PROJECT: TOMBALL ISD INTERMEDIATE REPLACEMENT – TOMBALL, TX
DATE: 05/06/26 | DRAWN BY: GJ/TR | P.O.#:
SCALE: 3/8"=1'-0" | PROPOSAL#: P0218292 | JOB#: | SHEET 1 of 2

ALL DIMENSIONS MUST BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
FCS 48854119
PROFESSIONAL MEMBER
Melissa Moore
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 48854119 ON 12/1/2020

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800.687.1229

FS WALK-INS

PACKAGE VOLUME 02

Job No. 00802-04-01	Sheet No. QF1.8
Drawn By: LK	
Date: 07.15.26	

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Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 Tomball ISD IS Replacement_FOOD.rvt

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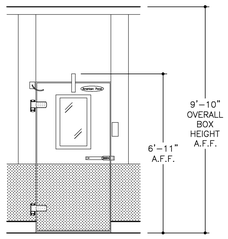
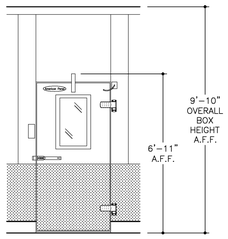
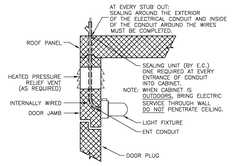


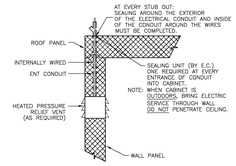
DOOR ELEVATION
FREEZER



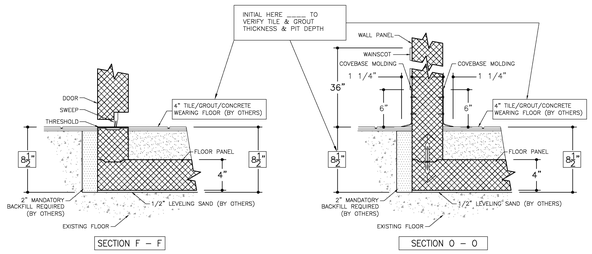
DOOR ELEVATION
COOLER



DOOR ELECTRICAL CONNECTION



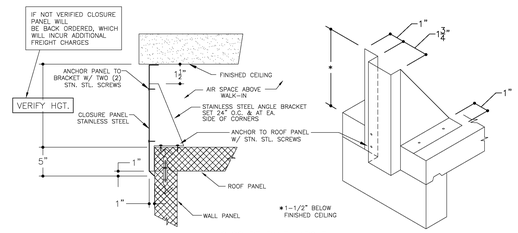
PANEL MOUNTED ELECTRICAL CONNECTION



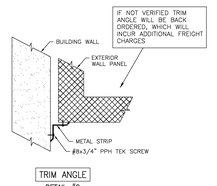
SECTION F – F

SECTION O – O

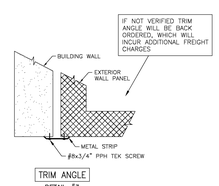
To prevent metal corrosion, doors must be kept open and air circulating during application and curing of all flooring materials including concrete, grout, epoxy, etc.



CLOSURE PANEL ABOVE WALK-IN DETAIL #4E



TRIM ANGLE
DETAIL #2



TRIM ANGLE
DETAIL #3

☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT
SIGNATURE _____
PRINT NAME _____
DATE _____

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CUSTOMER: FOODSERVICE DESIGN PROFESSIONALS
PROJECT: TOMBALL ISD INTERMEDIATE REPLACEMENT – TOMBALL, TX
DATE: 05/06/26 | DRAWN BY: CJ/TR | P.O.#:
SCALE: 3/8"=1'-0" | PROPOSAL#: PD218292 | JOB#: | SHEET: 2 of 2

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48854119
FCS
PROFESSIONAL MEMBER
Melissa Moore
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FS WALK-INS

PACKAGE VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.8.1
Drawn By: LK
Date: 07.15.26

7/17/2026 10:05:05 AM
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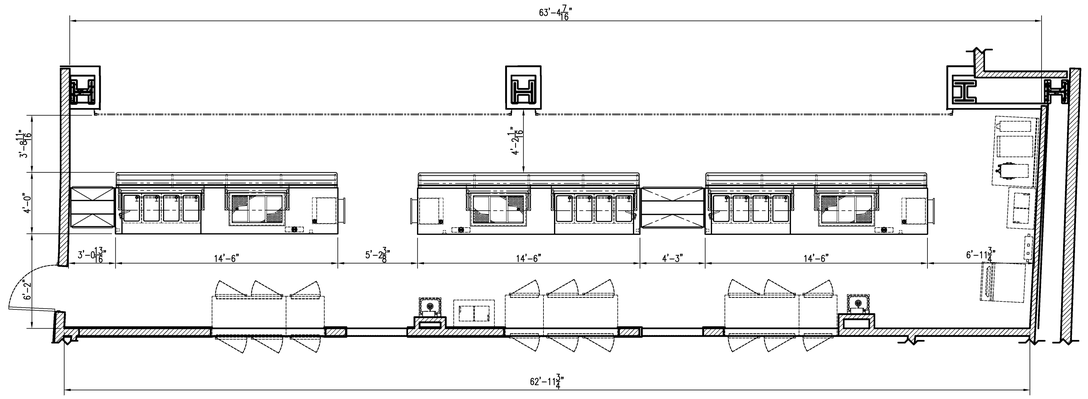

A PLAN – SERVING COUNTER ROOM LAYOUT (ITEM#'S 201/217/218)
SCALE 1/4"=1'-0" ONE (1) REQUIRED

32" A.F.F. TRAYSLIDE HEIGHT

K.E.C. NOTE - VERIFY FOLLOWING

CORIAN TRAYSLIDES:	Verify CORIAN selection to be used.
TILE FRONT FINISH:	Verify TILE selection to be used.
TRAY SIZE:	Verify tray size to be used.
TRAYSLIDE HEIGHT:	Verify trayslide height.

CONSULTANT/KEC APPROVAL STAMP & SIGNATURE

MOD-U-SERVE
QUALITY YOU CAN COUNT ON

TOMBALL INTERMEDIATE REPLACEMENT
TOMBALL ISD

COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DATE	REVISION	BY
	07.09.2026	REVISED COUNTER LAYOUT	LRC

DRAWING #: 26-083-1
DRAWN BY: CL
REFERENCE #:
DATE: 5/8/2026
SHEET 1 OF 2 SHEETS

Revision / Date

Project: TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48854119
FCSI
PROFESSIONAL MEMBER
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FS SERVING COUNTERS

PACKAGE VOLUME 02

Job No. 00802-04-01	Sheet No. QF1.9
Drawn By: MM	
Date: 07.15.26	

0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

7/15/2026 10:55:09 AM
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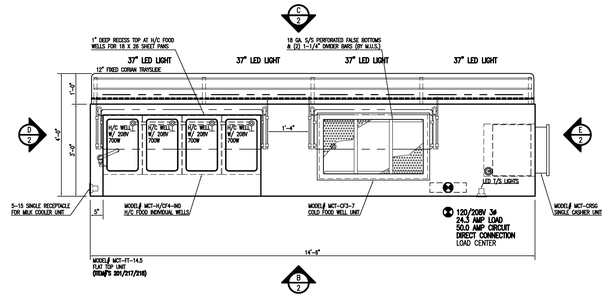
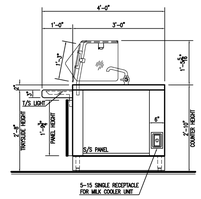
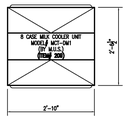


Ⓐ PLAN – SERVING COUNTER LINE (ITEM#'S 201/217/218)
SCALE 1/2"=1'-0"
THREE (3) REQUIRED
TWO (2) AS SHOWN
ONE (1) OPP. HAND



Ⓓ ELEV. – END OF COUNTER
SCALE 1/2"=1'-0"



Ⓒ PLAN – DM1 MILK COOLER (ITEM# 209)
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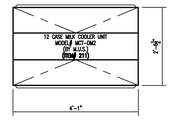
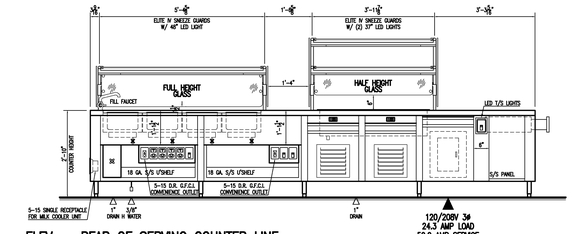
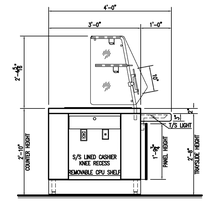
ONE (1) REQUIRED



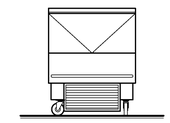
Ⓚ PLAN – DM2 MILK COOLER (ITEM# 211)
SCALE 1/2"=1'-0"
ONE (1) REQUIRED



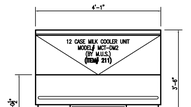
Ⓑ ELEV. – REAR OF SERVING COUNTER LINE
SCALE 1/2"=1'-0"



Ⓔ ELEV. – END OF COUNTER
SCALE 1/2"=1'-0"

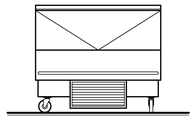


Ⓗ ELEV. – REAR OF MILK COOLER
SCALE 1/2"=1'-0"

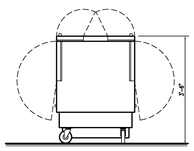


Ⓛ ELEV. – REAR OF MILK COOLER
SCALE 1/2"=1'-0"

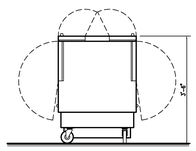
Ⓘ ELEV. – FRONT OF MILK COOLER
SCALE 1/2"=1'-0"



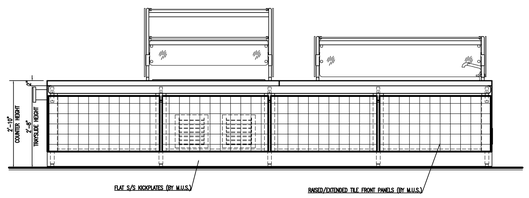
Ⓜ ELEV. – FRONT OF MILK COOLER
SCALE 1/2"=1'-0"



Ⓙ ELEV. – SIDE OF MILK COOLER
SCALE 1/2"=1'-0"



Ⓝ ELEV. – SIDE OF MILK COOLER
SCALE 1/2"=1'-0"



Ⓒ ELEV. – FRONT OF SERVING COUNTER LINE
SCALE 1/2"=1'-0"

Service	L_1	L_2	L_3	Trip	GFCI	No	21.8A 24.3A 24.0A	No	GFCI	Trip	L_1	L_2	L_3	Service
	15.0			3P		1		2		1P / 15A	2.0			LED TRAYSLIDE LIGHTS 120V 1Ø
HOT/COLD 4 WELL UNIT 120/208V 3Ø		11.2				3		4		3P / 15A			7.3	SINGLE CASHIER UNIT 120V 1Ø
			12.0	20A		5		6						SPARE
MILK COOLER OUTLET 120V 1Ø	4.8			3P		7		8						SPARE
		5.8				9		10						SPARE
COLD FOOD WELL UNIT 120/208V 1Ø			12.0	20A		11		12						SPARE

Ⓕ ELECTRICAL SCHEDULE FOR LOAD CENTER "A"/"B"/"C"
NOT TO SCALE
THREE (3) REQUIRED

32' A.F.F. TRAYSLIDE HEIGHT

K.E.C. NOTE - VERIFY FOLLOWING

CORIAN TRAYSLIDES:	Verify CORIAN selection to be used.
TILE FRONT PANELS:	Verify TILE selection to be used.
TRAY SIZE:	Verify tray size to be used.
TRAYSLIDE HEIGHT:	Verify trayslide height.

CONSULTANT/KEC APPROVAL STAMP & SIGNATURE

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QUALITY YOU CAN COUNT ON

TOMBALL INTERMEDIATE REPLACEMENT
TOMBALL ISD

MOD-U-SERVE

COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DATE	REVISION	BY
	07.09.2026	REVISED COUNTER LAYOUT	LRC

DRAWING # 26-083-2
DRAWN BY CL
REFERENCE # –
DATE 5/8/2026

SHEET 2 of 2 SHEETS

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE 48854119
PROFESSIONAL MEMBER
Melisa Moore
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 48854119 ON 1/31/2026

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FS SERVING COUNTERS

PACKAGE VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.9.1
Drawn By: LK
Date: 07.15.26

0' 2' 4' 8' 16'

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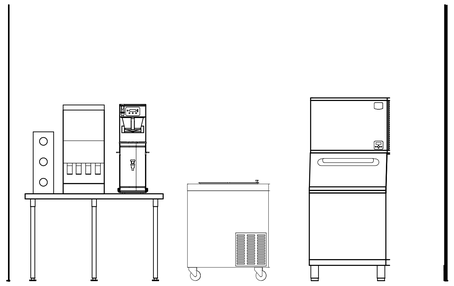
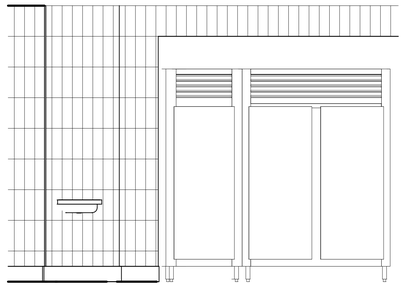
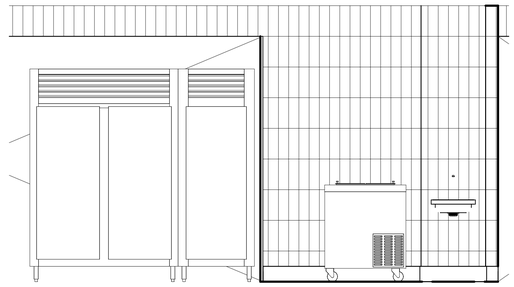


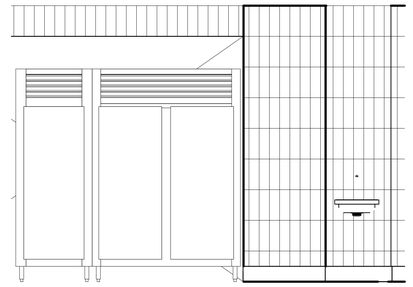
14 ELEVATION @ BEVERAGE AREA
1/2" = 1'-0"



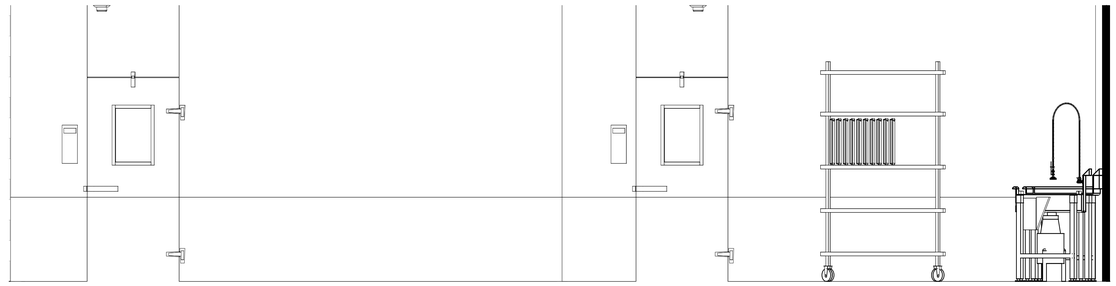
13 ELEVATION @ HOLDING LEFT
1/2" = 1'-0"



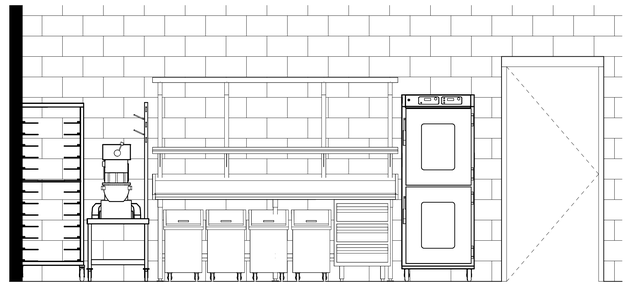
12 ELEVATION @ HOLDING CENTER
1/2" = 1'-0"



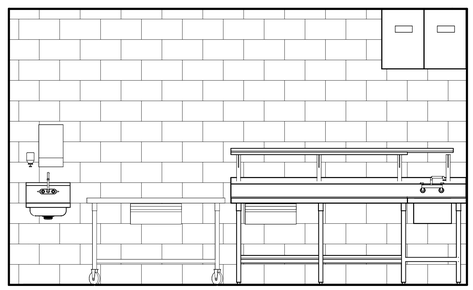
11 ELEVATION @ HOLDING RIGHT
1/2" = 1'-0"



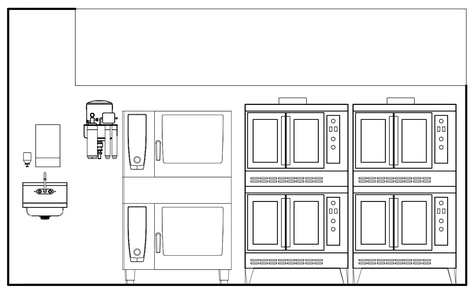
10 ELEVATION @ COLD STORAGE ASSEMBLY
1/2" = 1'-0"



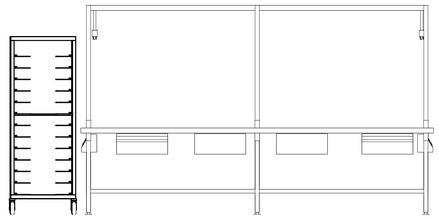
9 ELEVATION @ BAKERS TABLE & EQUIPMENT
1/2" = 1'-0"



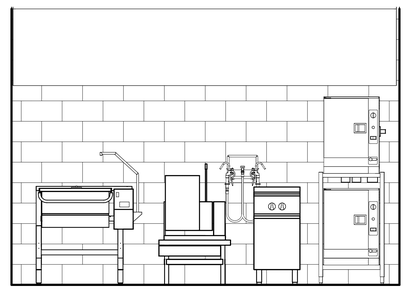
8 ELEVATION @ WORKTABLE W/SINK
1/2" = 1'-0"



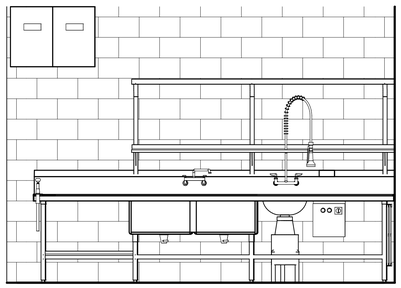
7 ELEVATION @ PRODUCTION 'B'
1/2" = 1'-0"



6 ELEVATION @ SETUP TABLE
1/2" = 1'-0"



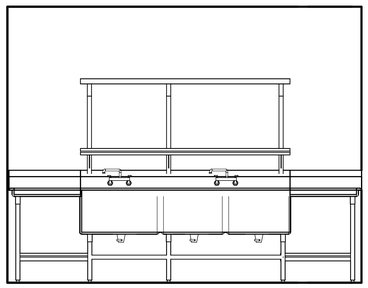
5 ELEVATION @ PRODUCTION 'A'
1/2" = 1'-0"



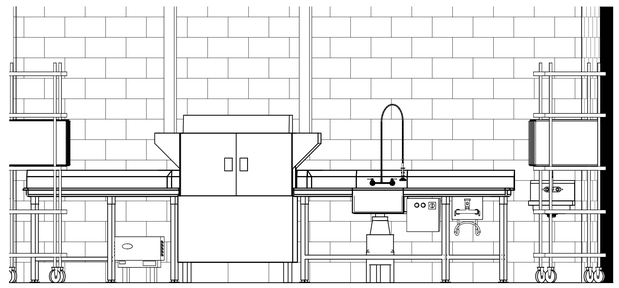
4 ELEVATION @ PREP SINK W/DISPOSER
1/2" = 1'-0"



3 ELEVATION @ WORKTABLE & SLICER
1/2" = 1'-0"



2 ELEVATION @ THREE COMPARTMENT SINK
1/2" = 1'-0"



1 ELEVATION @ DISHMACHINE
1/2" = 1'-0"

0' 2' 4' 8' 16'

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Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48854119
PROFESSIONAL MEMBER
Melissa Moore
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FS ELEVATIONS

PACKAGE VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.10
Drawn By: LK
Date: 07.15.26

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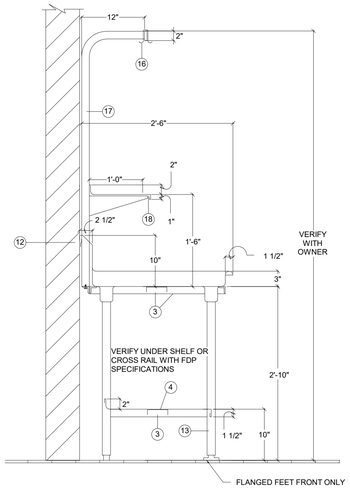
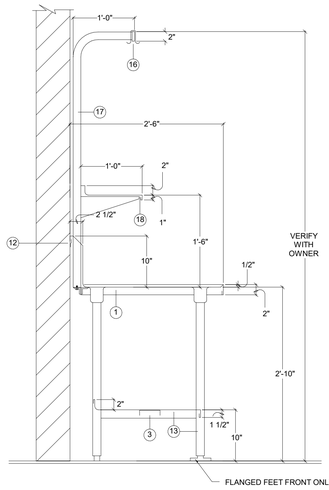
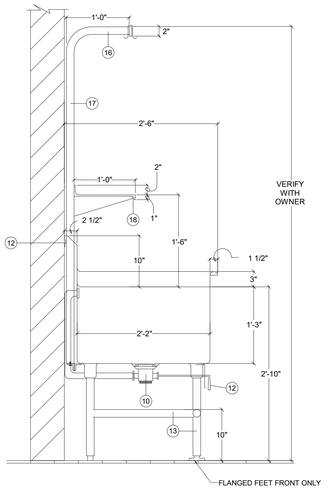


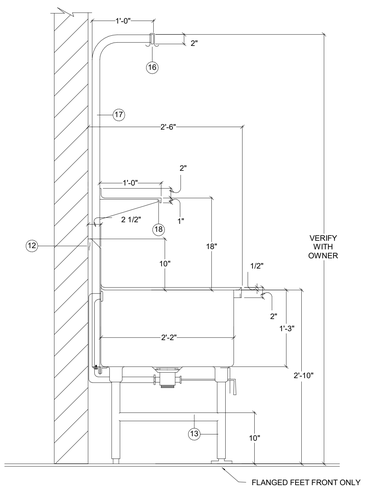
7 DRAINBOARD - UTENSIL WASH SECTION
NOT TO SCALE



6 DRAINBOARD - PREP SINK SECTION
NOT TO SCALE

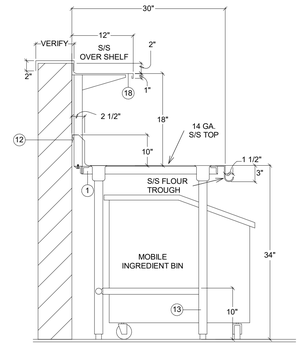


3 SINK - UTENSIL WASH SECTION
NOT TO SCALE

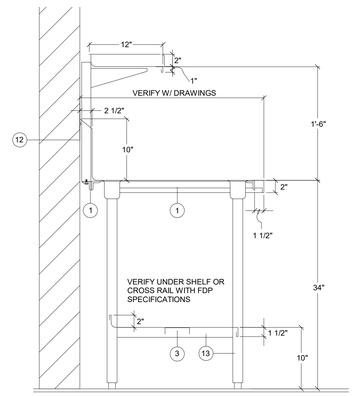


4 SINK - PREP TABLE SECTION
NOT TO SCALE

NOTE:
SECTION 114000 TO PROVIDE PROTECTIVE COVERING ON STAINLESS STEEL COUNTER TOPS DURING CONSTRUCTION. ALL SURFACES TO HAVE NO SCRATCHES.

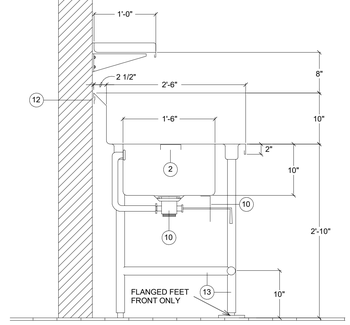


5 BAKER'S TABLE W/ S.S TOP SECTION
NOT TO SCALE

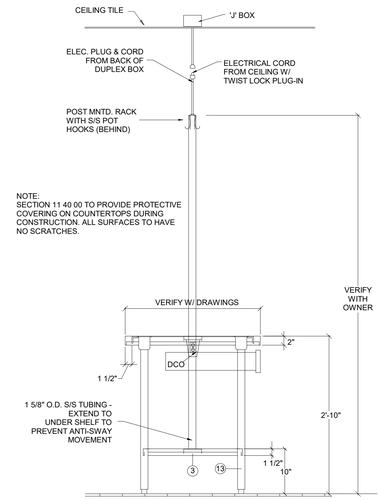


2 WORKTABLE W/ OVER SHELF SECTION
NOT TO SCALE

NOTE:
SECTION 11 40 00 TO PROVIDE PROTECTIVE COVERING ON COUNTERTOPS DURING CONSTRUCTION. ALL SURFACES TO HAVE NO SCRATCHES.



9 WORKTABLE W/ SINK SECTION
NOT TO SCALE



8 WORKTABLE - ISLAND W/ POST MTD STRAIGHT POT RACK SECTION
NOT TO SCALE

SECTION DETAIL NOTES:

1. 1 1/2" X 1 1/2" X 1/8" GALVANIZED ANGLE IRON.
2. 1" X 4" 14 GAUGE STAINLESS STEEL HAT CHANNEL.
3. 16 GAUGE STAINLESS STEEL C-CHANNEL.
4. 16 GAUGE STAINLESS STEEL UNDER SHELF, COVE UP REAR 2", TURN DOWN FRONT 1 1/2".
5. 1/2" CEMENT BACKERBOARD WITH TILE FRONT BY TRADE CONTRACTOR OR COUNTER MANUFACTURER. VERIFY FINISH WITH ARCHITECTURAL DRAWINGS.
6. COLD PAN - 2" RIGID INSULATION WITH 1" C.P. DRAIN - 16 GAUGE STAINLESS STEEL SECTION FALSE BOTTOM. PERFORATE FALSE BOTTOM WITH 1/4" DIA. HOLES AT 3" O.C.
7. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN DOOR WITH RECESSED PULL.
8. MANIFOLD DRAINS AT HOT FOOD UNITS WITH 1" TYPE 'K' COPPER AND EXTEND TO VALVE IN PLUMBING COMPARTMENT.
9. FINISHED TRUE AND LEVEL MASONRY BASE BY DIVISION 09. CLOSE COUNTER BODY AT BASE AND SEAL BY SECTION 11 40 00.
10. FISHER #22314 DRAIN WITH TAILPIECE AND OVERFLOW.
11. 14 GAUGE STAINLESS STEEL BRACKET WITH DRAIN HANDLE BUSHING.
12. 16 GAUGE STAINLESS STEEL 'Z' CLIP TO WALL AND SEAL.
13. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL LEGS AND CROSS RAILS.
14. 1/2" S/S TUBING DRAIN LINE - STRAP TO SHELF AND WALL - EXTEND DOWN TO TOP OF SPLASH.
15. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL TUBING - SUPPORT FRONT OF SHELF WITH 1/2" ALL-THREAD INSIDE TUBING EXTENDING TO STRUCTURE ABOVE.
16. 1/4" S/S BAR STOCK WELDED TO TOP OF EACH POST - POT HOOKS TO BE COMPONENT HARDWARE #J77-4401 SPACED 8" O.C.
17. 1 5/8" 16 GAUGE STAINLESS STEEL TUBING - BOLT TO ANGLE IRON AND EXTEND UP THRU SPLASH TO 7'-0" A.F.F.
18. OVER SHELF - 16 GAUGE STAINLESS STEEL, COVE UP REAR 2", TURN FRONT AND ENDS DOWN 1", ENDS TO BE CAPPED WITH EASED CORNERS WHERE ADJACENT TO WALL / FIXTURE.
19. 18 GAUGE STAINLESS STEEL LOUVERED PANEL.
20. 18 GAUGE STAINLESS STEEL LOUVERED DOUBLE PAN DOOR WITH RECESSED PULL.
21. NUMBER NOT USED.
22. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN SLIDING DOOR WITH COMPONENT HARDWARE COMPONENTS
    - A. #B57 - (VERIFY LENGTH) EXTRUDED ALUMINUM TRACK.
    - B. #B58-5511 & #B58-5521 FRONT & REAR DOOR SHEAVES.
    - C. #B62-1093 DOOR GUIDE.
    - D. #B60-1086 DOOR STOPS WHERE NEEDED.
    - E. #P62-1010 RECESS PULLS.

1 SECTION DETAIL NOTES
NOT TO SCALE

0' 2' 4' 8' 16'

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
FCSI 48654119
PROFESSIONAL MEMBER
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FS SECTIONS & DETAILS

PACKAGE VOLUME 02

Job No. 00802-04-01	Sheet No. QF1.11
Drawn By: LK	
Date: 07.15.26	

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7/15/2026 10:05:21 AM
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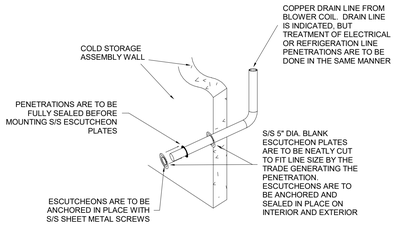
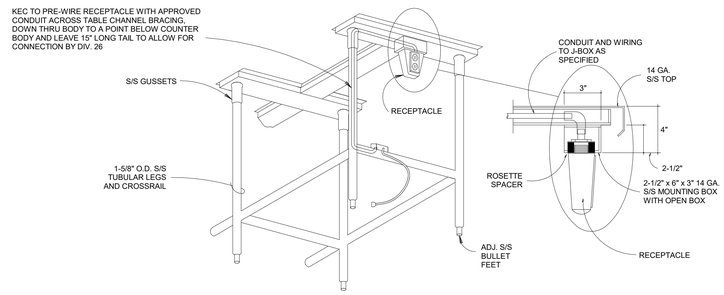


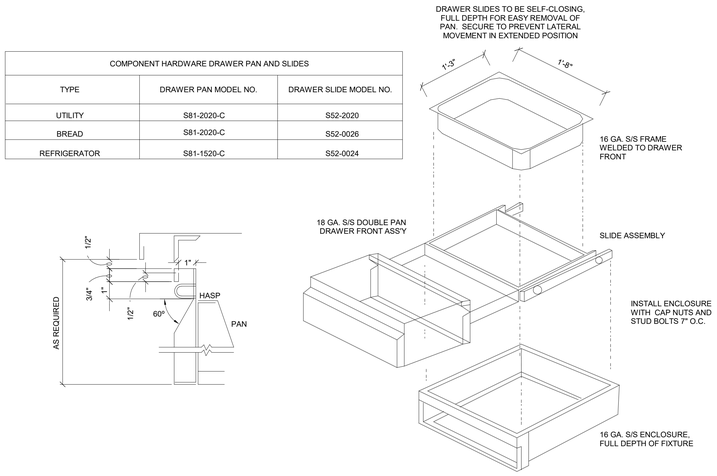
3 COLD STORAGE ASSEMBLY ESCUTCHEON & PENETRATION DETAIL
NOT TO SCALE

NOTE:
COORDINATE ALL RECEPTACLES WITH ELECTRICAL CONTRACT DRAWING REQUIREMENTS, REFER TO ELECTRICAL PLAN

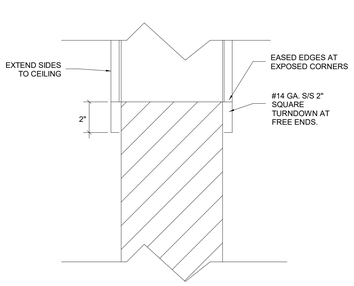


5 WORKTABLE - ELECTRICAL RECEPTACLE MOUNTED UNDER TOP DETAIL
NOT TO SCALE

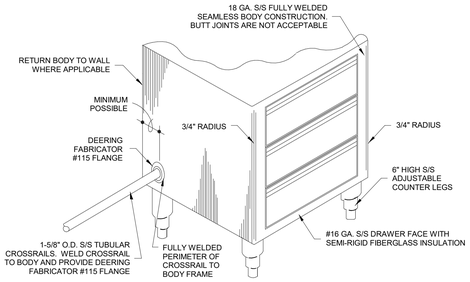
COMPONENT HARDWARE DRAWER PAN AND SLIDES		
TYPE	DRAWER PAN MODEL NO.	DRAWER SLIDE MODEL NO.
UTILITY	S81-2020-C	S52-2020
BREAD	S81-2020-C	S52-0026
REFRIGERATOR	S81-1520-C	S52-0024



6 DRAWER ASSEMBLY DETAIL
NOT TO SCALE

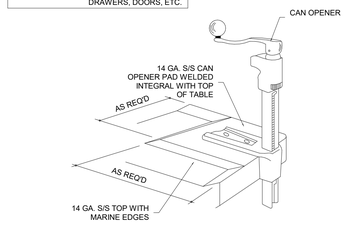


4 S/S WALL CAP DETAIL
NOT TO SCALE

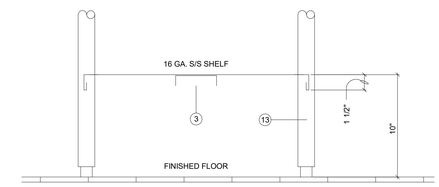


8 BAKER'S TABLE DRAWER BASE DETAIL
NOT TO SCALE

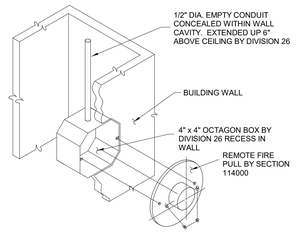
NOTE: DO NOT LOCATE CAN OPENER PAD IN A POSITION THAT WOULD ALLOW CAN OPENER TO OBSTRUCT OPENING OF DRAWERS, DOORS, ETC.



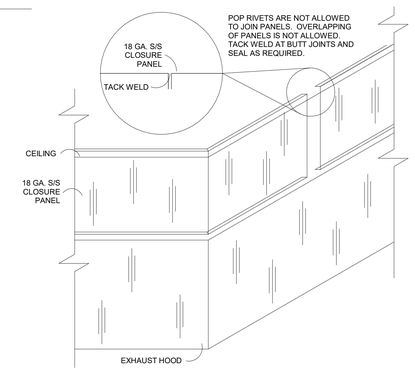
10 SINK - PREP MARINE EDGE CAN OPENER DETAIL
NOT TO SCALE



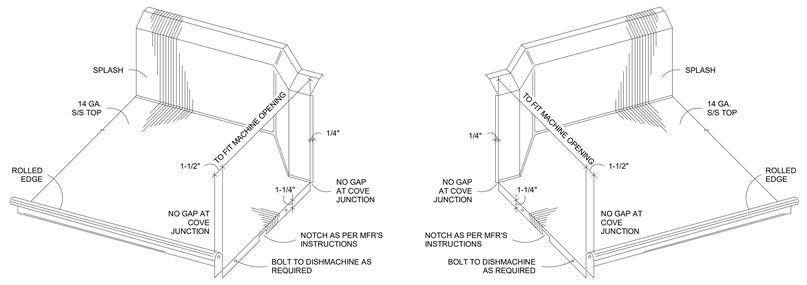
11 UNDER SHELF DETAIL
NOT TO SCALE



12 FIRE PROTECTION SYSTEM FIRE PULL DETAIL
NOT TO SCALE



13 EXHAUST HOOD CLOSURE PANEL DETAIL
NOT TO SCALE



14 DISHTABLE - SOILED & CLEAN CONNECTION DETAIL
NOT TO SCALE

0' 2' 4' 8' 16'

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
FCS
488541119
PROFESSIONAL MEMBER
Melissa Moore
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 488541119
On: 1/21/2026

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FS DETAILS

PACKAGE VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.12
Drawn By: LK
Date: 07.15.26

FDP FOODSERVICE DESIGN PROFESSIONALS

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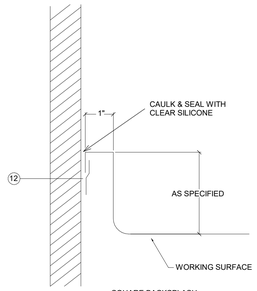
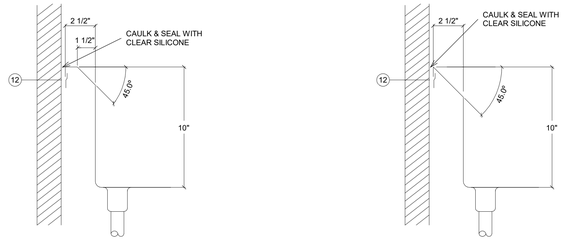
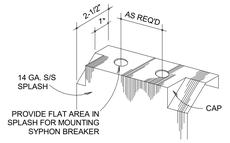


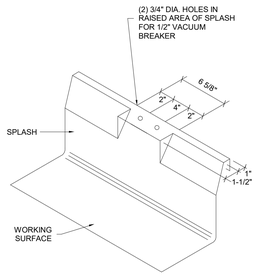
SQUARE BACKSPLASH
(beverage counters, back counters, snack bar counters, concession counters)



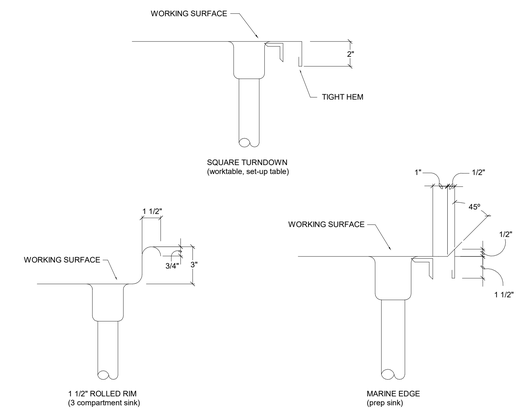
2 BACKSPLASH DETAILS
NOT TO SCALE



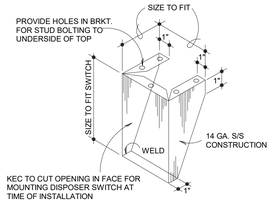
6 SPLASH @ SYPHON BREAKER
NOT TO SCALE



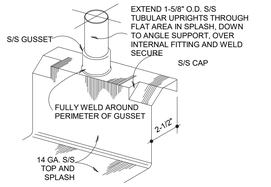
8 VACUUM BREAKER DETAIL
NOT TO SCALE



1 EDGE DETAILS
NOT TO SCALE



9 DISPOSER SWITCH BRACKET DETAIL
NOT TO SCALE



7 SPLASH @ UPRIGHT (DISH TABLE) DETAIL
NOT TO SCALE

CUSTOM FABRICATION NOTES:

A. WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER, TO COMPLETE SATISFACTION OF FOODSERVICE DESIGN PROFESSIONALS (FDP).

B. STAINLESS STEEL SHALL BE U.S. STANDARD GAUGES AS CALLED FOR. 18-8, TYPE 304, NOT OVER .012% MAXIMUM CARBON, NO. 4 FINISH.

C. GALVANIZED IRON SHALL BE ARMCO OR EQUAL. FRAMEWORK OF GALVANIZED IRON SHALL BE WELDED CONSTRUCTION, HAVING WELDS SMOOTH, AND WHERE GALVANIZING HAS BURNED OFF, TOUCHED UP WITH HIGH-GRADE ALUMINUM BRONZE.

D. LEGS AND CROSSRAIL SHALL BE CONTINUOUSLY WELDED, UNLESS OTHERWISE NOTED, AND GROUND SMOOTH.

E. BOTTOM OF LEGS AT FLOOR SHALL BE FITTED WITH SANITARY STAINLESS STEEL BULLET-TYPE FOOT, WITH NO LESS THAN 1/2" ADJUSTMENT.

F. LEGS SHALL BE FASTENED TO EQUIPMENT AS FOLLOWS:

01. TO SINKS BY MEANS OF CLOSED GUSSETS. GUSSETS SHALL BE S/S, REINFORCED WITH BUSHING, HAVING SET SCREWS FOR SECURING LEGS.

02. TO TABLES AND DRAINBOARDS WITH CLOSED GUSSETS WHICH SHALL BE WELDED TO GALVANIZED HAT SECTIONS OR CHANNELS, 14 GAUGE OR HEAVIER, EXPOSED HAT SECTIONS HAVING CLOSED ENDS. BRACING SHALL BE UNDERSIDE OF TOPS.

G. CLOSED GUSSETS SHALL BE 3" MINIMUM DIAMETER AT TOP, WELDED TO FRAME MEMBERS OR TO SINK BOTTOM.

H. ROLLS SHALL BE 1 1/2" DIAMETER, EXCEPT AS DETAILED TO THE CONTRARY, WITH CORNERS BULLNOSED, GROUND, AND POLISHED.

I. SEAMS AND JOINTS SHALL BE SHOP-WELDED WHERE POSSIBLE. WELDS TO BE GROUND AND POLISHED TO MATCH ORIGINAL FINISH. MATERIALS 18 GAUGE OR HEAVIER SHALL BE WELDED.

J. METAL TOPS SHALL BE ONE-PIECE WELDED CONSTRUCTION UNLESS SPECIFIED OTHERWISE, REINFORCED ON UNDERSIDE WITH GALVANIZED HAT SECTIONS OR CHANNELS WELDED IN PLACE. CROSSBRACE TO BE NOT MORE THAN 30" ON CENTERS.

K. HARDWARE SHALL BE SOLID MATERIALS AND EXCEPT WHERE EXPOSED OR SPECIFIED TO THE CONTRARY, OF CAST BRASS, CHROME-PLATED. IDENTIFY ALL HARDWARE WITH MANUFACTURER'S NAME AND NUMBER SO THAT BROKEN OR WORN PARTS MAY BE ORDERED AND REPLACED.

L. FABRICATE SINK COMPARTMENTS WITH 3/4" COVED VERTICAL AND HORIZONTAL CORNERS. MULTIPLE- COMPARTMENT PARTITIONS TO BE DOUBLE THICKNESS, CONTINUOUSLY WELDED WHERE SHEETS JOIN AT TOP. FRONT OF MULTIPLE-COMPARTMENT PARTITIONS TO BE CONTINUOUS ON EXTERIOR. BOTTOMS SHALL BE CREASED TO DRAIN.

M. ENDS OF FIXTURES, SPLASHBACKS, SHELVES, ETC., SHALL BE FINISHED FLUSH TO WALLS OR ADJOINING FIXTURES.

N. DISHTABLES, DRAINBOARDS, SPLASHBACKS, AND TURN-UP EDGES SHALL HAVE RADIUS BENDS IN ALL HORIZONTAL AND VERTICAL CORNERS, COVED AT INTERSECTIONS.

O. ROUNDED AND COVED CORNERS OR RADIUS BENDS SHALL BE 1/2" RADIUS OR LONGER.

P. UNDERSIDES OF TOPS TO BE COATED WITH HEAVY-BODIED RESINOUS MATERIAL COMPOUND FOR PERMANENT, NON-FLAKING ADHESION TO METAL, 1/8" THICK, APPLIED AFTER REINFORCING MEMBERS HAVE BEEN INSTALLED, DRYING WITHOUT DIRT-CATCHING CREVICES.

Q. SHELVES ARE TO BE TURNED UP 2" ON THE BACK EDGE. TURN OTHER EDGES DOWN 1 1/2" TO FORM OPEN CHANNELS. REINFORCE SHELF UNITS TO SUPPORT 40 LBS. PER SQUARE FOOT LOADING, PLUS 100% IMPACT LOADING.

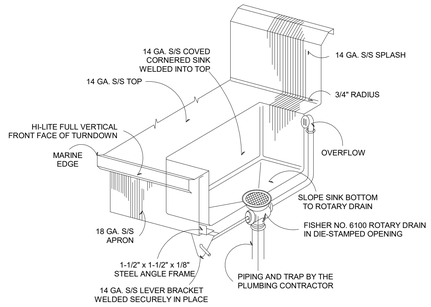
R. TRIMWORK AND FRAMING AT MASONRY OPENINGS SHALL BE 18 GAUGE STAINLESS STEEL AND FORMED SO AS TO FIT SNUG TO WALLS AND ADJACENT SURFACES. FRAMING SHALL EXTEND A MINIMUM OF 2" ON EACH SURFACE. SEAL TRIMWORK TO WALLS. REFER TO DRAWINGS.

S. METAL COMPONENTS, UNLESS SPECIFIED OR NOTED OTHERWISE, TO BE THE FOLLOWING GAUGES:

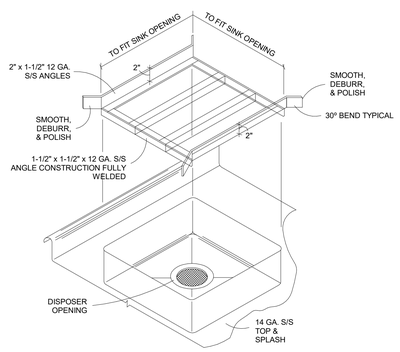
TABLETOPS	14 GAUGE STAINLESS STEEL
WALL SHELVES	16 GAUGE STAINLESS STEEL
UNDER SHELVES	16 GAUGE STAINLESS STEEL
SINKS & DRAINBOARDS	14 GAUGE STAINLESS STEEL
EXHAUST DUCTS	18 GAUGE STAINLESS STEEL
LEGS - 1 5/8" DIA.	16 GAUGE STAINLESS STEEL

10 CUSTOM FAB NOTES
NOT TO SCALE

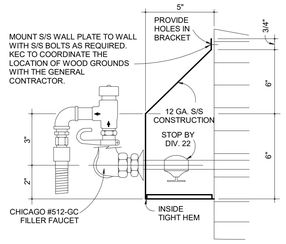
12 HOSE BIBB DETAIL
NOT TO SCALE



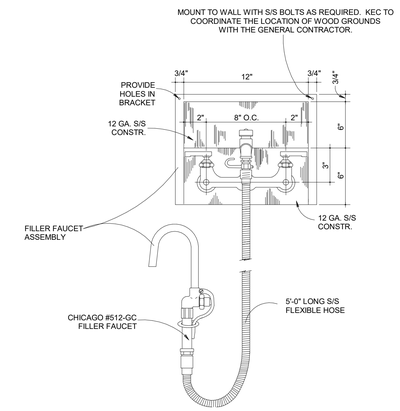
11 SINK ASSEMBLY DETAIL
NOT TO SCALE



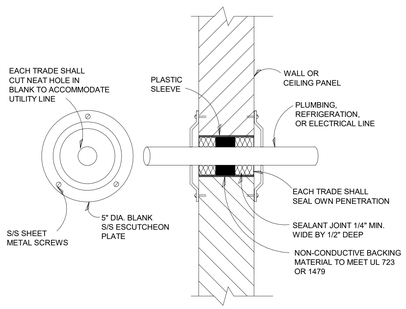
13 SINK - DISPOSER W/ REMOVABLE ANGLED RACK GUIDE DETAIL
NOT TO SCALE



14 FILL FAUCET DETAIL
NOT TO SCALE



15 COLD STORAGE ASSEMBLY WALL PENETRATION DETAIL
NOT TO SCALE



0' 2' 4' 8' 16'

FDP FOODSERVICE DESIGN PROFESSIONALS

Revision / Date

Project:
TOMBALL INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
MELISSA MOORE
48854119
PROFESSIONAL MEMBER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MELISSA MOORE, FCSI NO. 48854119 ON 1/31/2026

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FS DETAILS

PACKAGE VOLUME 02

Job No. 00802-04-01
Sheet No. QF1.13
Drawn By: LK
Date: 07.15.26

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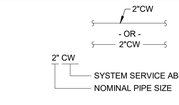
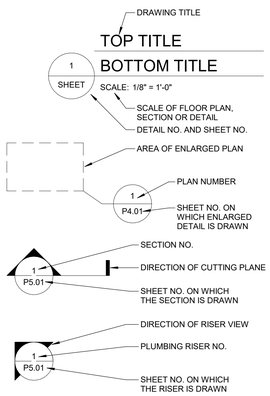
PIPING DESIGNATIONS



CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
NPHWR	NON-POTABLE HOT WATER RETURN
F	FIRE
A	COMPRESSED AIR
W	SANITARY WASTE
V	SANITARY VENT
GW	GREASE WASTE
GV	GREASE VENT
OW	OILY WASTE
AW	ACID WASTE
AV	ACID VENT
SD	STORM DRAIN
OFD	OVERFLOW DRAIN
SSD	SUB SURFACE DRAIN
D	CONDENSATE DRAIN
FM	FORCED MAIN
G	NATURAL GAS
LPG	LIQUEFIED PETROLEUM GAS

PLUMBING SYMBOLS



XX-1	EQUIPMENT DESIGNATION
	SINGLE LINE PIPE BREAK
	DOUBLE LINE PIPE BREAK
	STANDARD BREAK
1	KEYED NOTE
1	REVISION DELTA
	POINT OF DISCONNECTION
	POINT OF CONNECTION (NEW TO EXISTING)
	NEW ITEMS (PIPING/EQUIPMENT)
	EXISTING ITEMS TO REMAIN
	EXISTING ITEMS TO BE DEMOLISHED
	LIMIT OF EXISTING ITEMS TO BE REMOVED
	NEW CONNECTION TO EXISTING ITEM
(E)	EXISTING ITEM TO REMAIN (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(R)	EXISTING ITEM TO BE RELOCATED (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(D)	EXISTING ITEM TO BE DEMOLISHED (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTITUDE
AMB	AMBIENT
AMP	AMPERE
AP	ACCESS PANEL
APPROX	APPROXIMATE
AHJ	AUTHORITY HAVING JURISDICTION
AV	ACID VENT
AVG	AVERAGE
BAL	BALANCE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BHP	BRAKE HORSEPOWER
BLW	BELOW
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALL VALVE
BYP	BYPASS
°C	CELSIUS [DEGREES]
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTER LINE (℄)
CONN	CONNECTION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
DB	DRY BULB
dB	DECIBEL
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES [CELSIUS OR FAHRENHEIT]
DENS	DENSITY
DIA	DIAMETER
DPS	DIFFERENTIAL PRESSURE SENSOR
DWV	DRAIN, WASTE & VENT
EFF	EFFICIENCY
EL	ELEVATION
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ENTERING WATER TEMPERATURE
EXP	EXPANSION
FD	FLOOR DRAIN
°F	FAHRENHEIT [DEGREES]
FLA	FULL LOAD AMPS
FLG	FLANGE
FFE	FINISH FLOOR ELEVATOIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT, FEET
FT LB	FOOT-POUND
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GEN	GENERATOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD/HUB DRAIN
HGT	HEIGHT
HP	HORSE POWER
HR	HOUR
HPS	HOT WATER
HZ	HERTZ (FREQUENCY)
I/O	INPUT/OUTPUT
ID	INVERT ELEVATION
IE	INCHES WATER COLUMN
IN WC	INVERT
IW	INDIRECT WASTE
KIP	THOUSAND POUNDS
KIP FT	THOUSAND FOOT-POUNDS
KW	KILOWATT
KWh	KILOWATT HOUR
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MW	MAKE-UP WATER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
OFD	OVERFLOW STORM DRAIN
OZ	OUNCE
%	PERCENT
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PLBG	PLUMBING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
R	RELIEF, THERMAL RESISTANCE
REV	REVOLUTIONS
REF	REFERENCE
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
S	SECOND
SF	SQUARE FEET
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STR	STRAINER
T&P	TEMPERATURE AND PRESSURE
TEMP	TEMPERATURE
TOP	TOP OF PIPE
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VENT/VOLTS
VAR	VARIABLE/VARIES
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	SANITARY WASTE / WATT
WB	WET BULB
WC	WATER COLUMN
WH	WATER HEATER
WM	WATER METER
WPD	WATER PRESSURE DROP
WT	WEIGHT
YD	YARD
YR	YEAR
Z	ZONE

PLUMBING GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.
2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.
3. EACH SUBCONTRACTOR SHALL CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS.
4. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTORS FAILURE TO FIELD COORDINATE.
5. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
6. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, SHOCK ABSORBERS, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE.
7. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE PLUMBING EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.
8. THE CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL GEAR OR CONDUIT.
9. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN PLUMBING EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
10. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL CLEANOUTS, ACCESS DOORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION.
11. PLUMBING VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 5 FEET FROM EXTERIOR PERIMETER WALLS.
12. SOME PIPES SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.
13. PLUMBING FIXTURES AND TRIM OF LIKE KIND SHALL BE OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
14. PROVIDE WATER HAMMER ARRESTERS BETWEEN THE NEXT TO LAST AND LAST FIXTURE AT EACH BATTERY OF PLUMBING FIXTURES IN ACCORDANCE WITH THE WATER HAMMER ARRESTER SCHEDULE AND THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201.
15. ALL SANITARY WASTE PIPING WITHIN THE BUILDING ENVELOPE SHALL HAVE MINIMUM SLOPES AS REQUIRED BY THE LOCAL CODE AUTHORITY. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS INDICATED ON FLOOR PLANS PRIOR TO INSTALLATION OF ANY SITE UTILITIES AND CONNECTION INTO EXISTING SERVICES.
16. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA). PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH STALL.
17. SLEEVE ALL PIPING THAT PENETRATES EXTERIOR BUILDING WALLS AND GRADE BEAMS. SEAL PENETRATIONS WATERTIGHT.
18. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.
19. ALL FLOOR DRAIN AND FLOOR SINK TRAPS SHALL BE PROVIDED WITH TRAP PRIMERS.
20. PROVIDE ISOLATION VALVES IN ALL BRANCH PIPING, AT EQUIPMENT CONNECTIONS, AND AT THE HOT AND COLD WATER PIPING SERVING EACH GROUP OF PLUMBING FIXTURES.
21. ROUTE PIPING IN AN ORDERLY MANNER AND MAINTAIN PROPER GRADES. INSTALL TO CONSERVE HEADROOM AND TO CREATE MINIMUM INTERFERENCE WITH USE OF SPACE. ROUTE ALL PIPING PARALLEL TO BUILDING LINES UON. GROUP PIPING AT COMMON BOP ELEVATIONS WHENEVER PRACTICAL. PIPES LOCATED IN CONCEALED SPACES SHALL BE ROUTED CLOSE TO BUILDING STRUCTURE UON.
22. TALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE OR EQUIPMENT CONNECTED.
23. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
24. IDENTIFY EACH PIPE WITH LABELING AS REQUIRED BY SPECIFICATIONS.
25. ANY AND ALL WATER CONNECTIONS MADE FOR THE PURPOSE OF CLEANING TOOLS OR THE WORK AREA OR FOR ANY OTHER CONSTRUCTION-RELATED PURPOSES SHALL BE MADE ONLY TO DOMESTIC WATER HOSE BIBBS OR TO CONTRACTOR-SUPPLIED WATER SOURCES. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE USED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. CONNECTIONS SHALL NOT BE MADE TO FIRE WATER, CHILLED WATER, CONDENSER WATER, HEATING HOT WATER, DOMESTIC HOT WATER OR ANY OTHER TREATED WATER SOURCE UNLESS REQUIRED AS PART OF WORK ON THESE SYSTEMS.
26. INSTALL DIELECTRIC FITTINGS AT ALL FERROUS PIPE CONNECTIONS TO NON-FERROUS METALLIC PIPE OR EQUIPMENT.
27. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL NATURAL GAS UTILITY COMPANY TO EXTEND NATURAL GAS SERVICE TO LOCATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PAY ALL FEES AND COSTS ASSOCIATED/REQUIRED BY THE LOCAL GAS UTILITY COMPANY FOR THE EXTENSION OF THE GAS SERVICE. THE CONTRACTOR SHALL PROVIDE ALL PIPING, VALVES, ETC THAT ARE NOT PROVIDED BY THE LOCAL GAS UTILITY COMPANY AND THAT ARE REQUIRED FOR CONNECTION OF THE GAS METER AND REGULATOR(S) FOR A COMPLETE OPERATIONAL SYSTEM. THE CONTRACTOR SHALL VERIFY THE NATURAL GAS PRESSURE PROVIDED BY THE NATURAL GAS UTILITY COMPANY AND PROVIDE ADDITIONAL REGULATORS AS REQUIRED BY THE GAS FIRED EQUIPMENT INSTALLED.

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Revision / Date

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FOR
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PLUMBING SYMBOL LEGEND AND GENERAL NOTES

VOLUME 02

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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ROUGH-IN (MINIMUM) WASTE	VENT	DCW	DHW	ELEC	MANUFACTURER & MODEL NUMBER	ADA/TAS
WC1	WATERCLOSET, WALL MOUNT, FLUSHOMETER VALVE, TOP SPUD, ELONGATED, SIPHON ACTION JETTED BOWL, RATED FOR 1,000 LB STATIC LOAD, VITREOUS CHINA, WHITE, ASME A112.19.2M, 2" FULLY GLAZED TRAPWAY, 1.28 GPF.	4"	2"	-	-	-	AMERICAN STANDARD - 2257.101; OR EQUAL IN KOHLER OR SLOAN	
	FLUSHOMETER VALVE, 1.28 GPF, EXPOSED DIAPHRAGM TYPE, CHROME PLATED, 1 1/2" TOP SPUD, SPUD COUPLING AND FLANGE, OSCILLATING NON-HOLDING OPEN HANDLE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6. PROVIDE TRAP PRIMER ACCESSORY FOR FLUSH VALVES SERVING FLOOR DRAIN TRAP (REFER TO FLOOR PLANS FOR EXACT LOCATION/QUANTITY).	-	-	1-1/2"	-	-	SLOAN - 111-1.28-TP; OR EQUAL IN ZURN OR CHICAGO	
	SEAT, EXTRA HEAVY WEIGHT, POSTURE MOLDED SOLID PLASTIC, ELONGATED, OPEN FRONT, LESS COVER, EXTERNAL CHECK HINGES, STAINLESS STEEL HINGE POSTS, WHITE	-	-	-	-	-	CHURCH - 9500SSCT; OR EQUAL IN BEMIS OR OLSONITE	
	FIXTURE CARRIER, ADJ HEIGHT, FOOT/ANCHOR LEG SUPPORT, VERTICAL DISCHARGE, SINGLE/BACK TO BACK, RATED FOR 1000 LB STATIC LOAD	-	-	-	-	-	WATTS - ISCA-132/ISCA-132-D; ZURN - Z1202-N-XB/Z1202-ND-XB	
WC2	WATERCLOSET, WALL MOUNT, ACCESSIBLE MOUNTING HEIGHT, FLUSHOMETER VALVE, TOP SPUD, ELONGATED, SIPHON ACTION JETTED BOWL, RATED FOR 1,000 LB STATIC LOAD, VITREOUS CHINA, WHITE, ASME A112.19.2M, 2" FULLY GLAZED TRAPWAY, 1.28 GPF.	4"	2"	-	-	-	AMERICAN STANDARD - 2257.101; OR EQUAL IN KOHLER OR SLOAN	
	FLUSHOMETER VALVE, 1.28 GPF, EXPOSED DIAPHRAGM TYPE, CHROME PLATED, 1 1/2" TOP SPUD, SPUD COUPLING AND FLANGE, OSCILLATING NON-HOLDING OPEN HANDLE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6. PROVIDE TRAP PRIMER ACCESSORY FOR FLUSH VALVES SERVING FLOOR DRAIN TRAP (REFER TO FLOOR PLANS FOR EXACT LOCATION/QUANTITY).	-	-	1-1/2"	-	-	SLOAN - 111-1.28-TP; OR EQUAL IN ZURN OR CHICAGO	X
	SEAT, EXTRA HEAVY WEIGHT, POSTURE MOLDED SOLID PLASTIC, ELONGATED, OPEN FRONT, LESS COVER, EXTERNAL CHECK HINGES, STAINLESS STEEL HINGE POSTS, WHITE	-	-	-	-	-	CHURCH - 9500SSCT; OR EQUAL IN BEMIS OR OLSONITE	
	FIXTURE CARRIER, ADJ HEIGHT, FOOT/ANCHOR LEG SUPPORT, VERTICAL DISCHARGE, SINGLE/BACK TO BACK, RATED FOR 1000 LB STATIC LOAD	-	-	-	-	-	WATTS - ISCA-132/ISCA-132-D; ZURN - Z1202-N-XB/Z1202-ND-XB	
U1	URINAL, 0.125 GPF, WALL MOUNT, VITREOUS CHINA, 14" EXTENDED FLUSHING RIM, WASHOUT FLUSHING ACTION, 3/4" INLET SPUD, INLET AND OUTLET SPUDS AND HANGERS, ASME/ANSI A112.19.2. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.	2"	2"	-	-	-	AMERICAN STANDARD - 6590.001; ZURN - Z5755-U	
	FLUSHOMETER VALVE, 0.5 GPF, EXPOSED DIAPHRAGM-TYPE, CHROME PLATED, 3/4" TOP SPUD, SPUD COUPLING AND FLANGE, NON-HOLD OPEN HANDLE, CHROME PLATED ANGLE STOP WITH STOP CAP, VACUUM BREAKER FLUSH CONNECTION, CAST WALL FLANGE WITH SET SCREW, ANSI/ASME 112.19.6. PROVIDE TRAP PRIMER ACCESSORY FOR FLUSH VALVES SERVING FLOOR DRAIN TRAP (REFER TO FLOOR PLANS FOR EXACT LOCATION/QUANTITY).	-	-	3/4"	-	-	SLOAN, 186-0.5-TP; OR EQUAL IN ZURN OR CHICAGO	X
	FIXTURE CARRIER, HANGER AND BEARING PLATES, ADJ. SUPPORTING RODS, UPRIGHTS, WELDED FEET	-	-	-	-	-	JOSAM - 17560-UR; OR EQUAL IN WATTS OR ZURN	
L1	LAVATORY, 20"X18" VITREOUS CHINA WALL MOUNT, 4" CENTER FAUCET HOLES, FRONT OVERFLOW, CONCEALED ARM CARRIER SYSTEM, DECK MOUNTED FAUCET, INTEGRAL 4" BACKSPLASH, ANSI A112.19.2. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.	2"	1 1/2"	-	-	-	AMERICAN STANDARD, 0355.012; KOHLER, K-2005	
	FAUCET, DECK MOUNT, BATTERY PROXIMITY WITH DUAL BEAM INFRARED SENSOR, CHROME PLATED FINISH, CAST BRASS SPOUT, SINGLE CENTER HOLE INSTALLATION, CONCEALED INTERNAL TEMPERATURE CONTROL MIXER	-	-	-	1/2"	-	SLOAN SF-2350-EAF-15; OR EQUAL IN ZURN OR CHICAGO	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LF2165CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	-	MCGUIRE - 8902C; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS	-	-	-	-	-	MCGUIRE - 155WC; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	FIXTURE CARRIER, CONCEALED ARMS, LEVELING AND SECURING SCREWS, UPRIGHTS, WELDED FEET	-	-	-	-	-	JOSAM - 17100; OR EQUAL IN WATTS OR ZURN	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
WS1	WALL MOUNTED LAVATORY SYSTEM, 2-STATION, SOLID SURFACE SINK, COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING	2"	1 1/2"	-	-	-	SLOAN - SLOANSTONE ELRF-82000	
	DECK MOUNTED FAUCET, AUTOMATIC, HARDWIRED-POWERED, .5 GPM	-	-	-	1/2"	110V	SLOAN - EAF-100	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LF2165CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	-	MCGUIRE - 8902C; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS	-	-	-	-	-	MCGUIRE - 155WC; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
WS2	WALL MOUNTED LAVATORY SYSTEM, 3-STATION, SOLID SURFACE SINK, COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING	2"	1 1/2"	-	-	-	SLOAN - SLOANSTONE ELRF-83000	
	DECK MOUNTED FAUCET, AUTOMATIC, HARDWIRED-POWERED, .5 GPM	-	-	-	1/2"	110V	SLOAN - EAF-100	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LF2165CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	-	MCGUIRE - 8902C; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	OFFSET TAILPIECE AND STRAINER, CHROME PLATED CAST BRASS	-	-	-	-	-	MCGUIRE - 155WC; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
S1	CHROMIUM PLATED BRASS ANGLE SUPPLY WITH 1/2" OD X 12" FLEXIBLE RISER, 3/8" IPS X 1/2" OD QUARTER TURN STOP, ESCUTCHEON; CHROMIUM PLATE ALL METAL PARTS	2"	1 1/2"	-	-	-	ELKAY - 14-1C16X20-0X; OR APPROVED EQUAL	
	FAUCET, CHROME PLATED SWING SPOUT, 1/2" IPS INLETS, 6" WRIST BLADES	-	-	1/2"	1/2"	-	T&S BRASS - 0331-BWH6; OR APPROVED EQUAL	
	CHROMIUM PLATED BRASS ANGLE SUPPLY WITH 1/2" OD X 12" FLEXIBLE RISER, 3/8" IPS X 1/2" OD QUARTER TURN STOP, ESCUTCHEON; CHROMIUM PLATE ALL METAL PARTS	-	-	-	-	-	MCGUIRE - LFBV02; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, 17 GA., END-OUTLET CONTINUOUS WASTE	-	-	-	-	-	MCGUIRE - 8912C/111C16G20; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	TAILPIECE AND FORGED STAINLESS STEEL BASKET STRAINER	-	-	-	-	-	JUST - J-ADA-35; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS, LFUSG-B; LEONARD, 270-LF; OR APPROVED EQUAL	
	PLASTER TRAP, CAST IRON, 2-INCH INLET AND OUTLET, SCREENED OUTLET	-	-	-	-	-	ZURN - Z1180; OR APPROVED EQUAL	
S2	SINK, SINGLE COMPARTMENT, 25"x19-1/2"x6", ACCESSIBLE, DROP-IN, #18 GAUGE TYPE 304 STAINLESS STEEL, VERTICAL AND HORIZONTAL RADIUS BASIN CORNERS, BOTTOM SOUND DEADENING PADS, ANSI A112.19.3M, REAR CENTER DRAIN	2"	1 1/2"	-	-	-	ELKAY - LFRAD251960; OR EQUAL IN JUST MFG	
	FAUCET, DECK MOUNT, CHROME PLATED BRASS, RIGID SWING GOOSENECK SPOUT, TWO-HANDLE, 1/4 TURN 4" WRIST BLADE HANDLES, 4" CENTERS, NSF 61 COMPLIANT, ANSI A112.18.1M, 2.2 GPM MAX. FLOW RATE	-	-	1/2"	1/2"	-	T&S BRASS - B-0892; OR APPROVED EQUAL	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LFH2167CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, 17 GA., END-OUTLET CONTINUOUS WASTE	-	-	-	-	-	MCGUIRE - 8912C/111C16G20; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	TAILPIECE AND FORGED STAINLESS STEEL BASKET STRAINER	-	-	-	-	-	JUST - J-ADA-35; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
S3	SINK, SINGLE COMPARTMENT, 25"x19-1/2"x6", ACCESSIBLE, DROP-IN, #18 GAUGE TYPE 304 STAINLESS STEEL, VERTICAL AND HORIZONTAL RADIUS BASIN CORNERS, BOTTOM SOUND DEADENING PADS, ANSI A112.19.3M, REAR CENTER DRAIN	2"	1 1/2"	-	-	-	ELKAY - LFRAD251960; OR EQUAL IN JUST MFG	
	FAUCET, DECK MOUNT, CHROME PLATED BRASS, RIGID SWING GOOSENECK SPOUT, TWO-HANDLE, 1/4 TURN 4" WRIST BLADE HANDLES, 4" CENTERS, NSF 61 COMPLIANT, ANSI A112.18.1M, 2.2 GPM MAX. FLOW RATE	-	-	1/2"	1/2"	-	T&S BRASS - B-0892; OR APPROVED EQUAL	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LFH2167CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, 17 GA., END-OUTLET CONTINUOUS WASTE	-	-	-	-	-	MCGUIRE - 8912C/111C16G20; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	TAILPIECE AND FORGED STAINLESS STEEL BASKET STRAINER	-	-	-	-	-	JUST - J-ADA-35; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
S4	SINK, DOUBLE COMPARTMENT, 25"x22"x6", ACCESSIBLE, DROP-IN, #18 GAUGE TYPE 304 STAINLESS STEEL, VERTICAL AND HORIZONTAL RADIUS BASIN CORNERS, BOTTOM SOUND DEADENING PADS, 3-FAUCET HOLES, 8-INCH CENTERS, ANSI A112.19.3M, REAR CENTER DRAIN	2"	1 1/2"	-	-	-	ELKAY - LRADQ292260; OR EQUAL IN JUST MFG	
	FAUCET, DECK MOUNT, CHROME PLATED BRASS, RIGID SWING GOOSENECK SPOUT, TWO-HANDLE, 1/4 TURN 4" WRIST BLADE HANDLES, 4" CENTERS, NSF 61 COMPLIANT, ANSI A112.18.1M, 2.2 GPM MAX. FLOW RATE	-	-	1/2"	1/2"	-	T&S BRASS - B-0892; OR APPROVED EQUAL	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LFH2167CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, 17 GA., END-OUTLET CONTINUOUS WASTE	-	-	-	-	-	MCGUIRE - 8912C/111C16G20; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	TAILPIECE AND FORGED STAINLESS STEEL BASKET STRAINER	-	-	-	-	-	JUST - J-ADA-35; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
S5	SINK, SINGLE COMPARTMENT, 25"x19-1/2"x6", ACCESSIBLE, DROP-IN, #18 GAUGE TYPE 304 STAINLESS STEEL, VERTICAL AND HORIZONTAL RADIUS BASIN CORNERS, BOTTOM SOUND DEADENING PADS, ANSI A112.19.3M, REAR CENTER DRAIN	2"	1 1/2"	-	-	-	ELKAY - LFRAD251960; OR EQUAL IN JUST MFG	
	MIXING FAUCET, DECK MOUNT, CHROME PLATED BRASS, 6" RIGID SWING GOOSENECK SPOUT, TWO-HANDLE, 1/4-TURN 4" WRIST BLADE HANDLES, VACUUM BREAKER, ASME A112.18.1M	-	-	1/2"	1/2"	-	WATER SAVER - LF414VB-BH	
	SUPPLY AND STOPS, LOOSE KEY, CHROME PLATED BRASS VALVES AND CHROME PLATED COPPER RISERS, LEAD FREE	-	-	-	-	-	MCGUIRE - LFH2167CCLK; OR EQUAL IN T&S BRASS OR BRASSCRAFT	X
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, 17 GA., END-OUTLET CONTINUOUS WASTE	-	-	-	-	-	MCGUIRE - 8912C/111C16G20; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	TAILPIECE AND FORGED STAINLESS STEEL BASKET STRAINER	-	-	-	-	-	JUST - J-ADA-35; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	THERMOSTATIC MIXING VALVE, 0.25 GPM MINIMUM FLOW, INTEGRAL INLET CHECK VALVES AND STRAINER, SET TEMPERATURE TO 105°, ASSE 1070.	-	-	1/2"	1/2"	-	WATTS - LFUSG-B; LEONARD - 270-LF; OR APPROVED EQUAL	
MSB1	MOP SINK BASIN, ONE PIECE-PRECAST TERRAZZO 32"x32"x12" NEO-CORNER SINK (1 1/4" WALL THICKNESS WITH MINIMUM 9.75" INSIDE DEPTH), 6" DROP FRONT, STAINLESS STEEL WALL GUARDS, STAINLESS STEEL DRAIN ASSEMBLY AND STRAINER PLATE	3"	2"	-	-	-	FIAT - TSBC1611; OR APPROVED EQUAL	
	FAUCET, EXPOSED YOKE, WALL MOUNTED UTILITY FAUCET, VACUUM BREAKER, 6"THREADED SPOUT	-	-	3/4"	3/4"	-	FIAT - 830-AA; OR APPROVED EQUAL	
	24"x3" STAINLESS STEEL MOP BRACKET WITH THREE RUBBER TOOL GRIPS	-	-	-	-	-	FIAT - 889-CC; OR APPROVED EQUAL	
	30" RUBBER HOSE (5/8"), CHROME COUPLING 1 END, 5"x3" STAINLESS STEEL BRACKET W/ RUBBER GRIP	-	-	-	-	-	FIAT - 832-AA; OR APPROVED EQUAL	
	ALUMINUM BUMPER GUARD ON LEADING EDGE OF MOP SINK BASIN	-	-	-	-	-	FIAT - E-77-AA; OR APPROVED EQUAL	
MSB2	MOP SINK BASIN, ONE PIECE-PRECAST TERRAZZO 24"x24"x12" (1 1/4" WALL THICKNESS WITH MINIMUM 9.75" INSIDE DEPTH) 6" DROP FRONT, STAINLESS STEEL EDGE CAPS ON ALL SIDES, STAINLESS STEEL WALL GUARDS, CAST BRASS DRAIN WITH STAINLESS STEEL STRAINER	3"	2"	-	-	-	FIAT - TSB3000; OR APPROVED EQUAL	
	FAUCET, EXPOSED YOKE, WALL MOUNTED UTILITY FAUCET, VACUUM BREAKER, 6"THREADED SPOUT	-	-	1/2"	1/2"	-	FIAT - 830-AA; OR APPROVED EQUAL	
	24"x3" STAINLESS STEEL MOP BRACKET WITH THREE RUBBER TOOL GRIPS	-	-	-	-	-	FIAT - 889-CC; OR APPROVED EQUAL	
	30" RUBBER HOSE (5/8"), CHROME COUPLING 1 END, 5"x3" STAINLESS STEEL BRACKET W/ RUBBER GRIP	-	-	-	-	-	FIAT - 832-AA; OR APPROVED EQUAL	
	ALUMINUM BUMPER GUARD ON LEADING EDGE OF MOP SINK BASIN	-	-	-	-	-	FIAT - E-77-AA; OR APPROVED EQUAL	

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ROUGH-IN (MINIMUM) WASTE	VENT	DCW	DHW	ELEC	MANUFACTURER & MODEL NUMBER	ADA/TAS
EWC1	TWO STATION WATER COOLER WITH BOTTLE FILLER ON LOW SIDE, INDOOR BI-LEVEL WALL MOUNTED, SELF CONTAINED ELECTRIC REFRIGERATION, STAINLESS STEEL BASIN AND CABINET WITH ANTI-SPLASH RIDGE, INTEGRAL DRAIN STRAINER, NON-SQUIRT BUBBLER, PUSH BAR ACTIVATION ON FRONT AND SIDES OF WATER COOLER. REFRIGERATION SYSTEM SERVING BOTH BI-LEVELS TO INCLUDE HIGH EFFICIENCY COMPRESSOR, R-134A, FULLY INSULATED STAINLESS STEEL TANK, 8 GPH WITH 50°F SUPPLY TEMPERATURE AND 80°F AMBIENT, 115VOLT, ANSI 117.1, NFS/ANSI 61, ARI STANDARD 1010	2"	1-1/2"	1/2"	-	120V	HALSEY TAYLOR - HTHBHVR8BL; OR APPROVED EQUAL	
	ACCESSIBLE APRON, MOLDED STAINLESS STEEL SKIRT KIT FOR INSTALLATION ON THE HIGH UNIT	-	-	-		-	ELKAY - 98324C; OR APPROVED EQUAL	X
	FIXTURE CARRIER, STEEL TOP AND BOTTOM PLATES W/ ADJ. HOLES, CHROME PLATED CAP NUTS/WASHERS	-	-	-	-	-	ELKAY - MLP200; OR APPROVED EQUAL	
	SUPPLY AND STOP, LOOSE KEY, CHROME PLATED BRASS VALVE AND 12-INCH STAINLESS STEEL BRAIDED RISER, LEAD FREE	-	-	-	-	-	MCGUIRE - LF2165CCLKSS12; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
	P-TRAP, CHROME PLATED CAST BRASS BODY WITH CLEANOUT, SEAMLESS WALL BEND, 17 GA.	-	-	-	-	-	MCGUIRE - 8902C; OR EQUAL IN T&S BRASS OR BRASSCRAFT	
EWS1	EMERGENCY EYEWASH/SHOWER COMBINATION, RECESSED, BARRIER FREE, WALL MOUNTED WITH EXPOSED SHOWER HEAD, DRAIN PAN WITH DIRECT DRAIN, TSMV, SCHEDULE 40 GALVANIZED STEEL PIPING AND FITTINGS, 10" DIA. STAINLESS STEEL DELUGE SHOWER HEAD, STAINLESS STEEL EYEWASH BOWL, PULL ROD OPERATED, ANTI SQUIRT EYEWASH HEADS, PUSH FLAG, STAY OPEN BALL VALVES, ELECTRIC LIGHT AND ALARM HORN	-	-	1 1/4"	1"	-	GUARDIAN - GBF2170-G6044-AP250-018SS-AP280-235; OR APPROVED EQUAL	X
	TSMV INSTALLED IN RECESS MOUNTED STAINLESS STEEL CABINET	-	-	-	-	-	GUARDIAN - G6044	
WMB1	WASHING MACHINE CONNECTION BOX, STAINLESS STEEL WITH CENTER DRAIN, 1/2" HALF TURN VALVES	2"	1-1/2"	-	-	-	GUY GRAY - SSWB; OR APPROVED EQUAL	
IMB1	ICE MACHINE BOX, 1/4 TURN BALL VALVE, PROVIDE FIRE RATED OUTLET BOX IF PLACING IN FIRE RATED WALL	-	-	1/2"	-	-	OATEY ICE MAKER OUTLET BOXES; OR APPROVED EQUAL	
HB	HOSE BIBB, BRASS WITH CHROME FINISH, VACUUM BREAKER, 3/4" MALE N.H.T. OUTLET, WALL FLANGE, METAL HANDLE	-	-	3/4"	-	-	WOODFORD - 24; OR EQUAL IN ZURN, JOSAM, OR MIFAB	
NFWH1	NON-FREEZE WALL HYDRANT, CONCEALED WALL TYPE, CHROME FINISH ON BRASS CASTINGS, VACUUM BREAKER, LOOSE KEY HANDLE, 3/4" MALE HOSE THREAD NOZZLE. PROVIDE SAMPLES OF MATERIAL AND FINISHES FOR THE EXTERIOR HOSE CONNECTION FOR ARCHITECTURAL SELECTION OF FINISH	-	-	3/4"	-	-	WOODFORD - B67; OR EQUAL IN ZURN, JOSAM, OR MIFAB	
NFRH1	NON-FREEZE ROOF HYDRANT, BACKFLOW PROTECTED ASSE 1052 APPROVED, VARIABLE FLOW, AUTOMATIC DRAINING, FREEZELESS, SELF-CLOSING	-	-	3/4"	-	-	WOODFORD - SRH-MS; OR EQUAL IN ZURN, JOSAM, OR MIFAB	
FD1	FLOOR DRAIN, CAST IRON BODY, ANCHOR FLANGE, WEEPHOLES FOR DOUBLE DRAINAGE, 5" SQUARE STAINLESS STEEL FLAT STRAINER. ADJUSTABLE DRAIN HEAD W/ MACHINED INTEGRAL BODY THREADS, ASME A112.21.1	3"	2"	-	-	-	JOSAM - 30000-SS-SS; OR EQUAL IN ZURN OR MIFAB	
FD2	FLOOR DRAIN, CAST IRON BODY, ANCHOR FLANGE, WEEPHOLES FOR DOUBLE DRAINAGE, 5" ROUND STAINLESS STEEL FLAT STRAINER. ADJUSTABLE DRAIN HEAD W/ MACHINED INTEGRAL BODY THREADS, ASME A112.21.1	4"	3"	-	-	-	JOSAM - 30000-5A-SS; OR EQUAL IN ZURN OR MIFAB	
	FUNNEL ASSEMBLY, ROUND	-	-	-	-	-	JOSAM - F6; OR EQUAL IN ZURN OF MIFAB	
FS1	FLOOR SINK, 12"x12"x8", CI BODY, DBL DRAINAGE FLANGE, STAINLESS STEEL DOME STRAINER, 3/4 GRATE, NON-PUNCTURING FLASHING COLLAR, PORCELAIN ENAMEL OR EPOXY COATED INTERIOR, REMOVABLE SEDIMENT BUCKET	4"	3"	-	-	-	JOSAM - 49340-4-33; OR EQUAL IN ZURN OR MIFAB	
TP1	TRAP PRIMER (PROVIDED FOR ALL FLOOR DRAINS), DIAPHRAGM OPERATED BASED ON PRESSURE SPIKES OR PRESSURE DROPS, OPERATING RANGE BETWEEN 30 TO 70 PSIG. PROVIDE WITH DISTRIBUTION UNIT SERVING MULTIPLE DRAINS (UP TO 4). PROVIDE ACCESS PANEL FOR TRAP PRIMER MAINTENANCE.	-	-	1/2"	-	-	PPP - CPO-500; OR APPROVED EQUAL	
TP2	TRAP PRIMER (PROVIDED FOR ALL FLOOR DRAINS), DIAPHRAGM OPERATED BASED ON PRESSURE SPIKES OR PRESSURE DROPS, OPERATING RANGE BETWEEN 30 TO 70 PSIG. PROVIDE WITH DISTRIBUTION UNIT SERVING MULTIPLE DRAINS (UP TO 13-20). PROVIDE ACCESS PANEL FOR TRAP PRIMER MAINTENANCE.	-	-	1/2"	-	120V	PPP - PT-1320; OR APPROVED EQUAL	
LT	STAINLESS STEEL LINT TROUGH, TYPE 304, 4-FEET LONG, REMOVABLE PRIMARY AND SECONDARY STAINLESS STEEL FILTER SCREENS, PERFORATED STAINLESS STEEL DOME BOTTOM STRAINER, 4-INCH NO-HUB BOTTOM OUTLET,	4"	-	-	-	-	WATTS - LI-LT; OR APPROVED EQUAL	
WCO	WALL CLEANOUT, CI BODY, RECESSED, THREADED BRASS PLUG, STAINLESS STEEL ACCESS COVER	-	-	-	-	-	JOSAM - 56680-5-26-VP; OR EQUAL IN ZURN OR MIFAB	
FCO	FLOOR CLEANOUT, COATED CAST IRON BODY, COMBINATION ADJUSTABLE ROUND STAINLESS STEEL COVER AND PLUG TOP ASSEMBLY, GASKET SEAL, ASME 112.36.2	-	-	-	-	-	JOSAM - 58360; OR EQUAL IN ZURN OR MIFAB	
GCO	GRADE CLEANOUT, HEAVY DUTY COATED CAST IRON ACCESS BODY WITH ANCHOR FLANGES, HEAVY DUTY DUCTILE IRON ACCESS COVER WITH VANDAL RESISTANT STAINLESS STEEL SCREWS	-	-	-	-	-	JOSAM - 56680-5-26-VP; OR EQUAL IN ZURN OR MIFAB	
DCO	2-WAY GRADE CLEANOUT, TWO-RISER CLEANOUT BODY WITH HEAVY DUTY COATED CAST IRON ACCESS BODY WITH ANCHOR FLANGES, HEAVY DUTY DUCTILE IRON ACCESS COVER WITH VANDAL RESISTANT STAINLESS STEEL SCREWS	-	-	-	-	-	JOSAM - 56680-5-26-VP; OR EQUAL IN ZURN OR MIFAB	
RD1	ROOF DRAIN: LARGE GALVANIZED CAST IRON BODY, DECK CLAMP; SIZE AS INDICATED ON DRAWINGS	-	-	-	-	-	ZURN - Z100F-G; OR EQUAL BY SMITH, WATTS	
OD1	OVERFLOW DRAIN: SAME AS ROOF DRAIN RD1 WITH 2-INCH OVERFLOW DAM	-	-	-	-	-	ZURN - Z100F-G-89; OR EQUAL BY SMITH, WATTS	
DSN	DOWNSPOUT NOZZLE, 2-PIECE, BRONZE, WALL FLANGE AND THREADED INLET. PROVIDE SAMPLES OF MATERIAL AND FINISHES FOR EXTERIOR DOWNSPOUT NOZZLE FOR ARCHITECTURAL SELECTION OF FINISH.	-	-	-	-	-	JOSAM - 25010; OR EQUAL IN ZURN OR MIFAB	

NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL SUPPLIES, STOPS, TRAPS, TAILPIECES AND ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION OF ALL FIXTURES.
2. ALL ACCESSIBLE SINKS AND LAVATORIES SHALL BE EQUIPPED WITH TRUEBRO #103 UNDER SINK PROTECTIVE PIPE COVERS WHERE NOT CONCEALED BY MILLWORK.
3. PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH STALL OR ROOM.
4. CONTRACTOR SHALL VERIFY FIXTURE SUPPLIES AND APPURTENANCES FOR EACH FIXTURE PRIOR TO BIDDING AND PURCHASING.
5. ALL FLOOR MOUNTED WATER CLOSETS SHALL HAVE 10" ROUGH-IN UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL VERIFY PLUMBING FIXTURES PROVIDED COMPLY WITH HANDICAPPED ACCESSIBILITY STANDARDS INCLUDING HEIGHT AND CLEARANCE REQUIREMENTS.
7. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY'S STANDARD (TAS).

GAS-FIRED DOMESTIC WATER HEATER SCHEDULE

MARK	SERVICE	GAS INPUT (MBH)	STORAGE CAPACITY (GAL)	RECOVERY RATE (60 TO 140 DEG F) (GPH)	STORED WATER TEMPERATURE (DEG F)	POWER REQUIREMENTS VOLTAGE	AMPS	PHASE	HZ	THERMAL EFFICIENCY (%)	MANUFACTURER / MODEL SERIES	REMARKS
WH1	DOMESTIC HOT WATER	199	90	290	140	120	2	1	60	99	LOCHINVAR / SWR200N	1,2,3,4
WH2	DOMESTIC HOT WATER	199	90	290	140	120	2	1	60	99	LOCHINVAR / SWR200N	1,2,3,4
WH3	DOMESTIC HOT WATER	199	90	290	140	120	2	1	60	99	LOCHINVAR / SWR200N	1,2,3,4

REMARKS:
1. PROVIDE WITH MINIMUM 10:1 MODULATING BURNER TURNDOWN RATIO
2. PROVIDE CON

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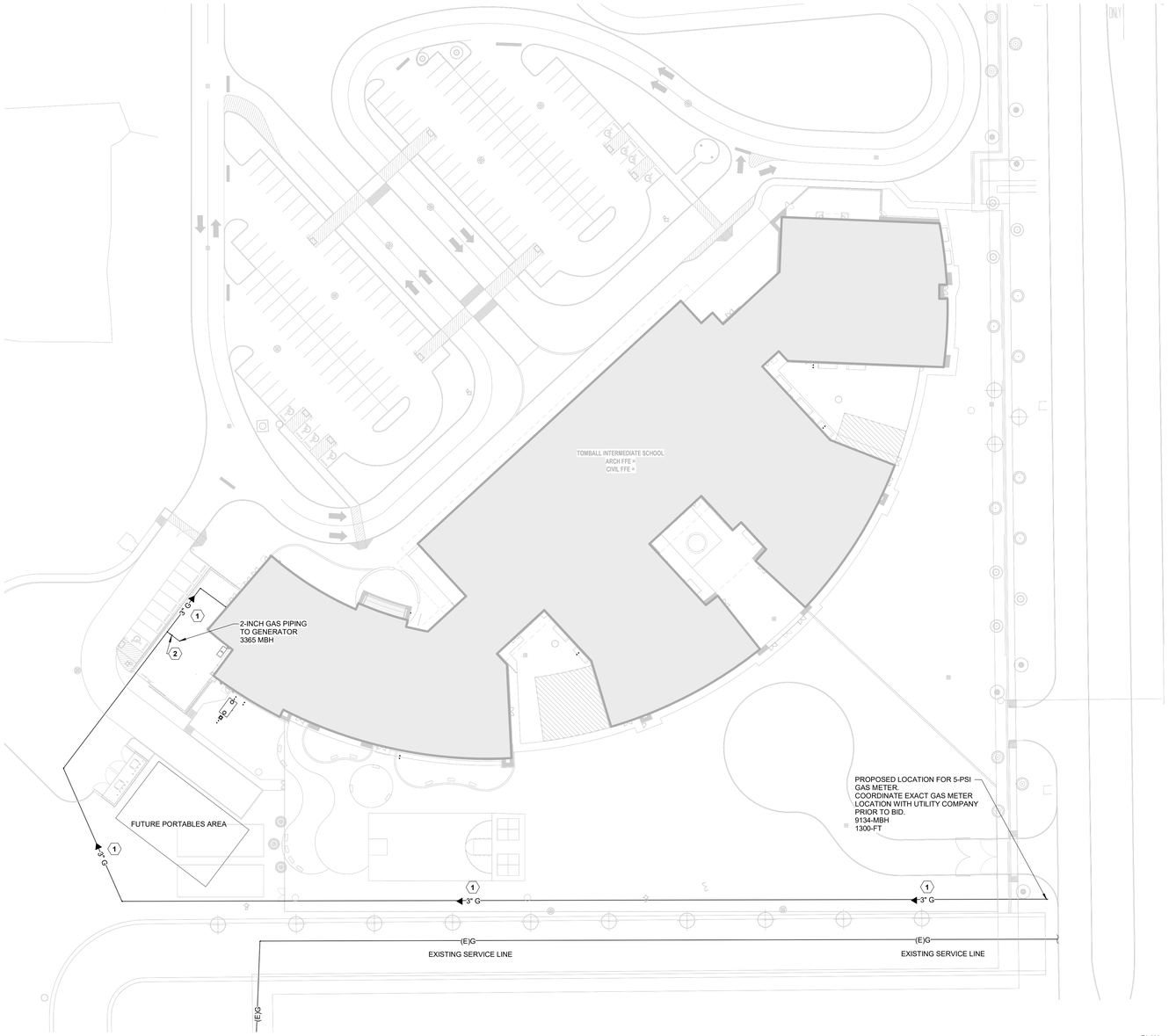
NOTES BY SYMBOL

1 3-INCH GAS PIPING AT 5-PSI.

2 5-PSI TO <2-PSI REGULATOR. CONTRACTOR TO SET DISCHARGE PRESSURE AT REGULATOR, AS REQUIRED, TO ENSURE GAS PRESSURE IS DELIVERED TO ALL GAS-FIRE EQUIPMENT BEING SERVED PER MANUFACTURER'S PUBLISHED IOM.



1 PLUMBING SITE PLAN
1" = 40'-0"

PLAN N

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PLUMBING SITE PLAN

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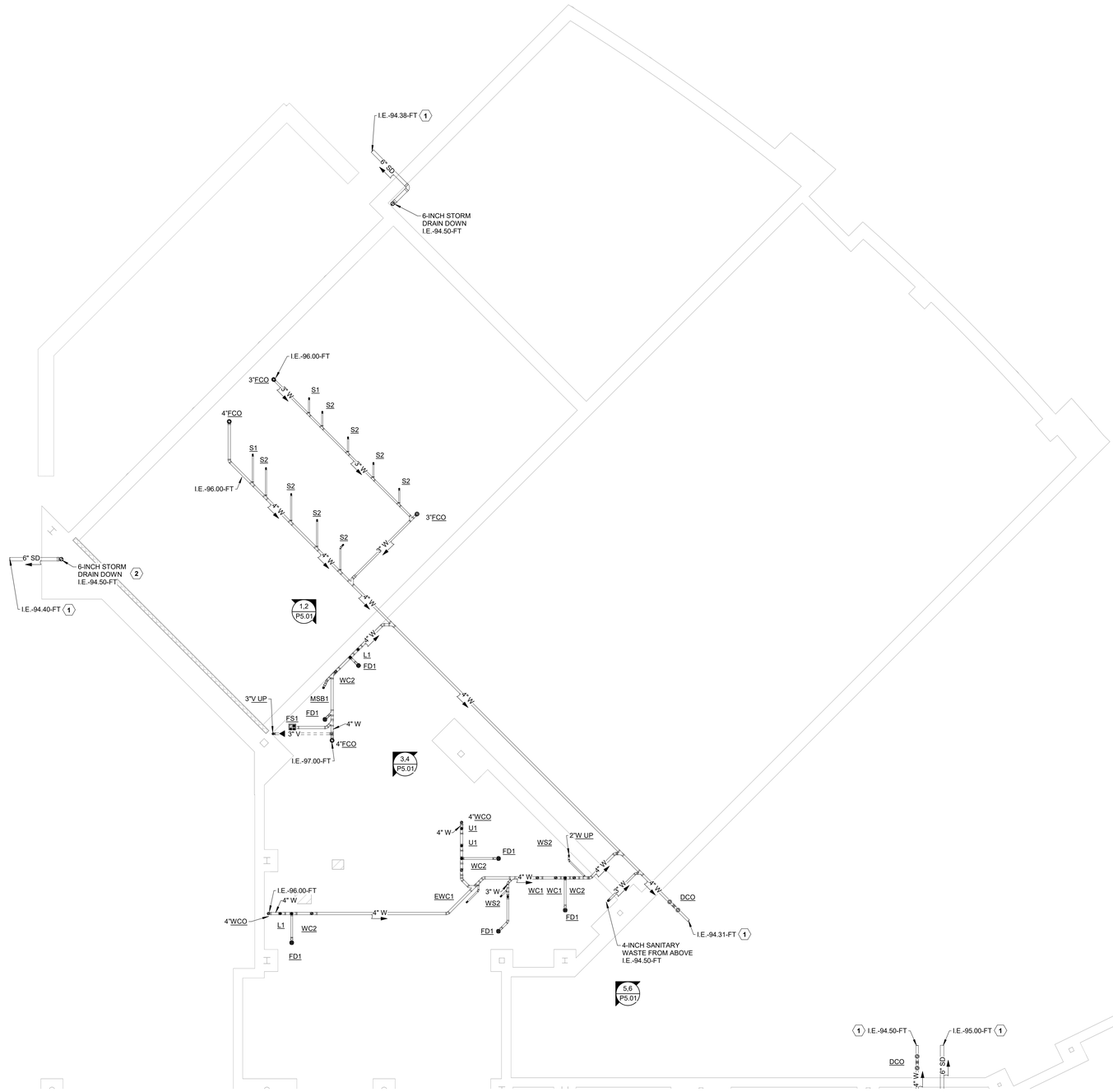
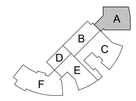
2 COORDINATE STRUCTURAL PENETRATION TO AVOID CONTACTING REBAR.



1 PLUMBING PLAN - BELOW SLAB - AREA A
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

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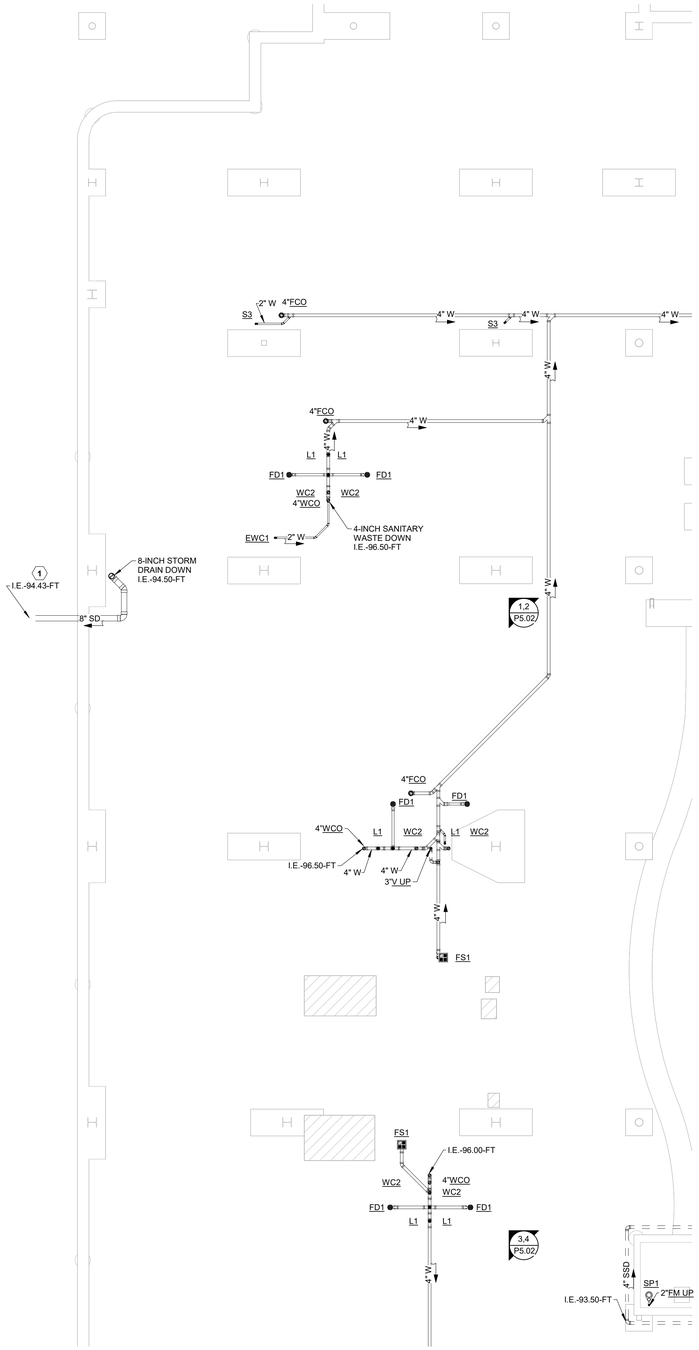

1 PLUMBING PLAN - BELOW SLAB - AREA B
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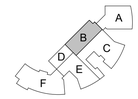

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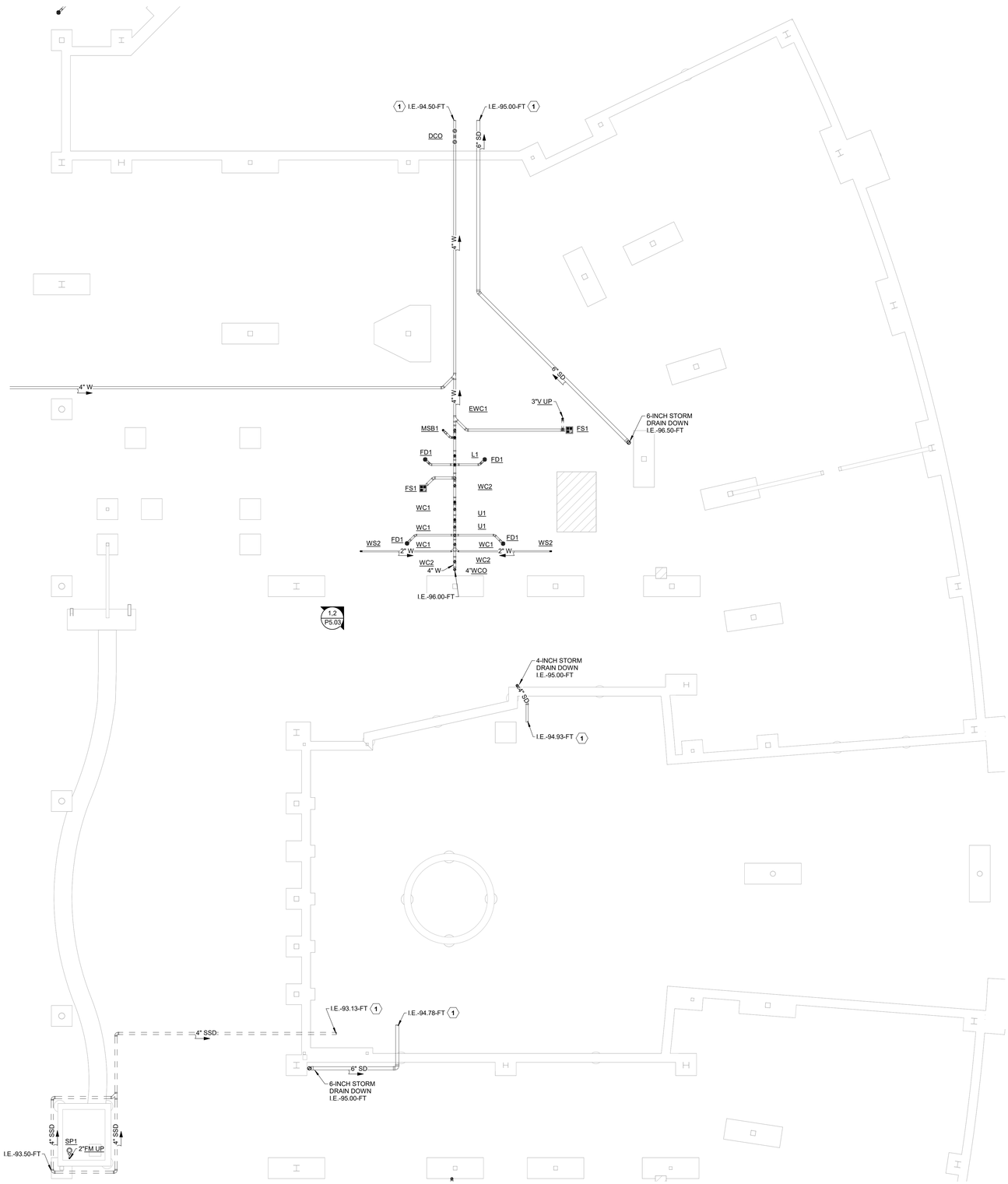

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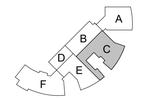
1/8" = 1'-0"



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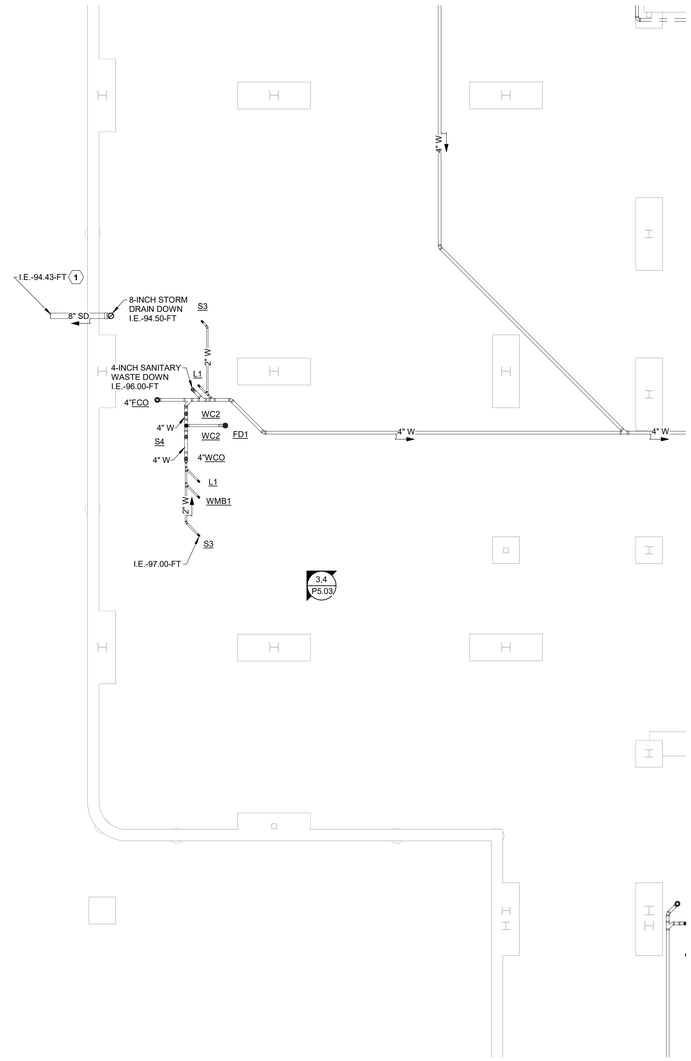

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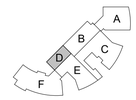
1/8" = 1'-0"



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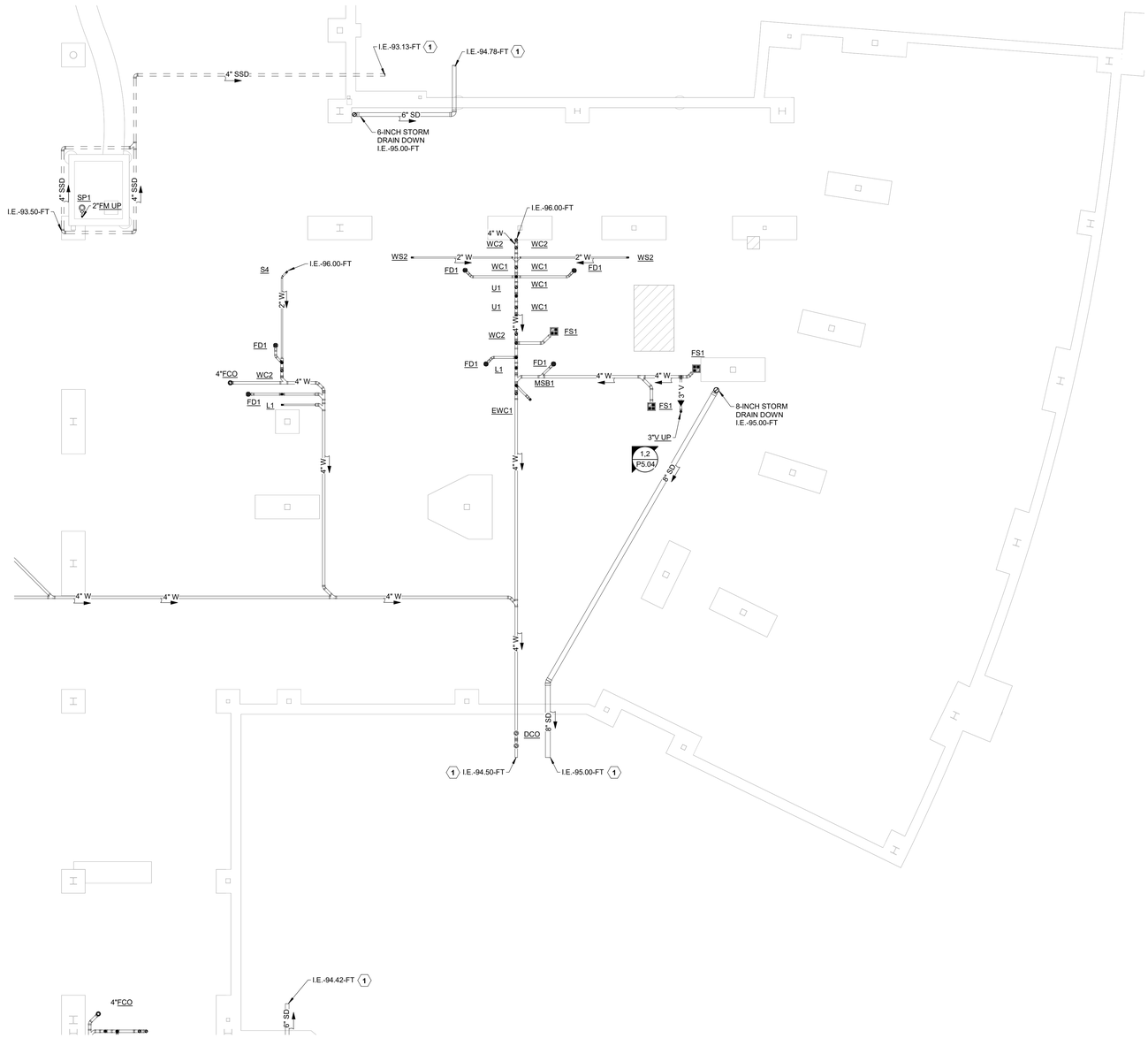
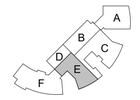


1 PLUMBING PLAN - BELOW SLAB - AREA E
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN
N

Revision / Date

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FOR
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TOMBALL, TEXAS

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PLUMBING PLAN - BELOW SLAB - AREA E

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Job No.	Sheet No.
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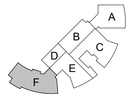
NOTES BY SYMBOL

1 REFER TO CIVIL FOR CONTINUATION.



1 PLUMBING PLAN - BELOW SLAB - AREA F
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
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PLUMBING PLAN - BELOW SLAB - AREA F

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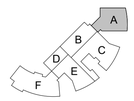
NOTES BY SYMBOL

1. RUN PIPING BELOW SECOND FLOOR, WITHIN THE BUILDING/SOFFIT.
2. 3/4-INCH DOMESTIC COLD WATER UP TO HOSE BIBB ON SECOND FLOOR.
3. 6-INCH STORM DRAIN DOWN TO BELOW GRADE.
4. PROVIDE DRAIN PAN BELOW ALL PIPING OVER IDF ROOM. PROVIDE WATER SENSING DISK IN BOTTOM OF PAN INTEGRATED INTO BAS SYSTEM TO SIGNAL ALARM IF WATER IS SENSED IN DRAIN PAN.
5. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

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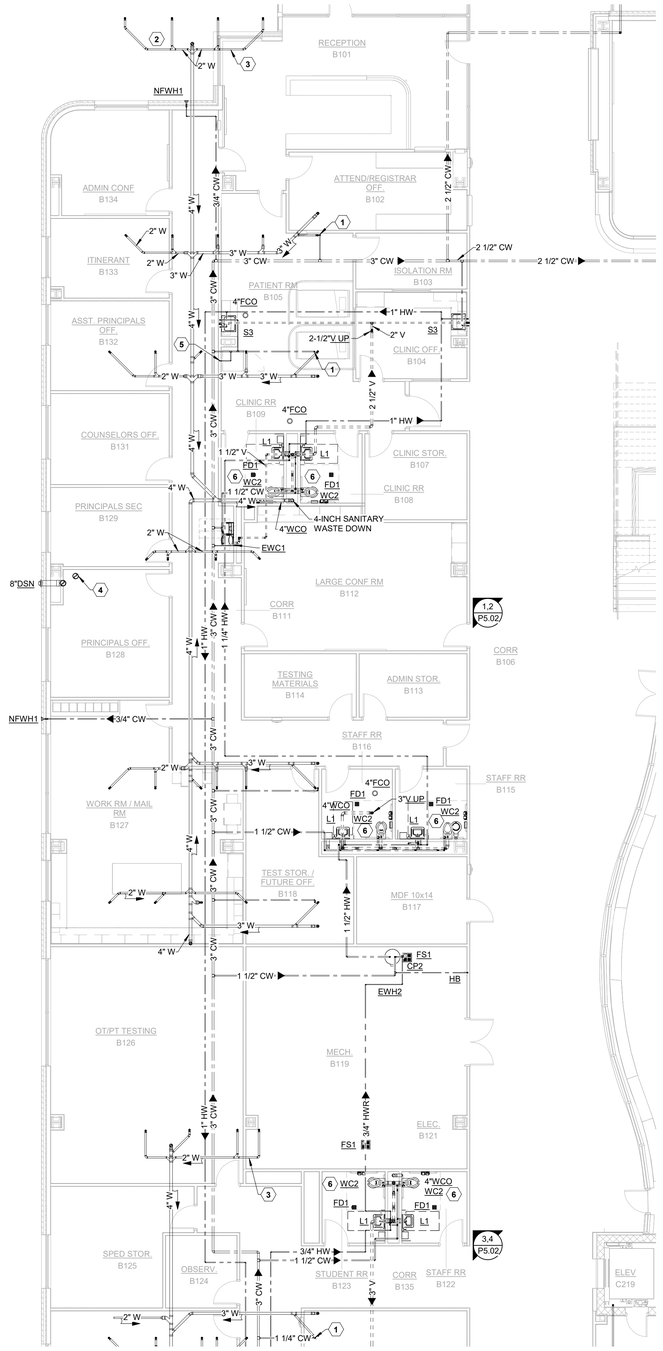
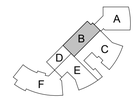
NOTES BY SYMBOL

1. 1-1/4-INCH DOMESTIC COLD WATER UP TO EMERGENCY EYEWASH STATIONS ON SECOND FLOOR.
2. RUN PIPING BELOW SECOND FLOOR, WITHIN THE BUILDING/SOFFIT.
3. PENETRATION OF STRUCTURE APPROXIMATELY AS LOCATED ABOVE CEILING. COORDINATE WITH STRUCTURAL.
4. 8-INCH STORM DRAIN DOWN TO BELOW GRADE.
5. 1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
6. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
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NOTES BY SYMBOL

1 3/4-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.

2 2-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.

3 3/4-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.

4 3/4-INCH DOMESTIC HOT WATER DOWN TO FIRST FLOOR.

5 1-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.

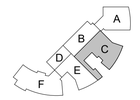
6 4-INCH STORM DRAIN DOWN TO BELOW GRADE.

7 6-INCH STORM DRAIN DOWN TO BELOW GRADE.

8 PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

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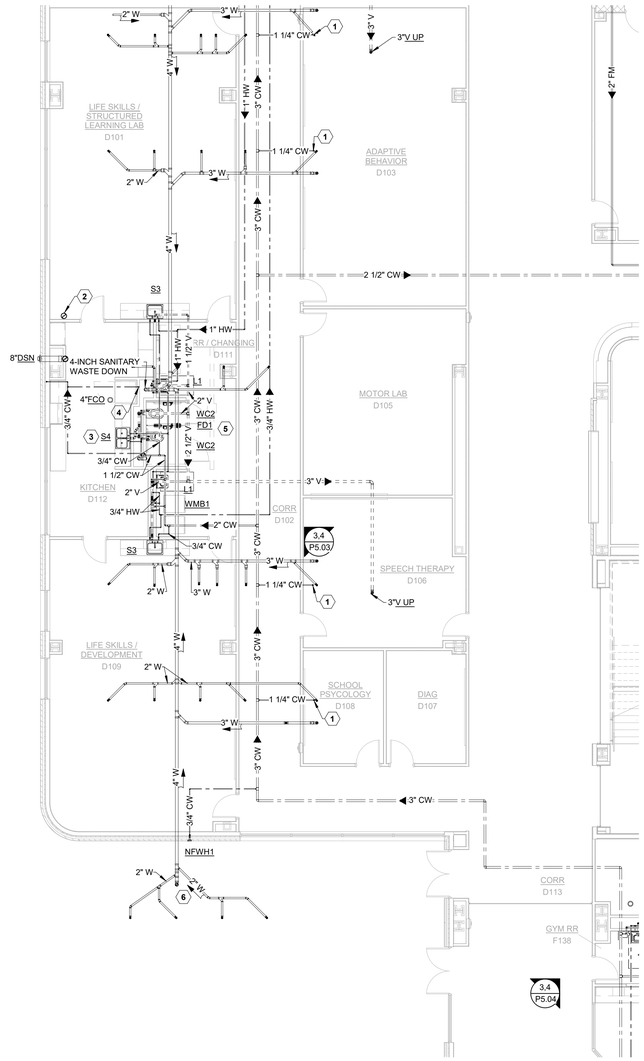
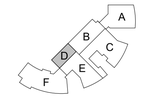
NOTES BY SYMBOL

1. 1-1/4-INCH DOMESTIC COLD WATER UP TO EMERGENCY EYEWASH STATIONS ON SECOND FLOOR.
2. 8-INCH STORM DRAIN DOWN TO BELOW GRADE.
3. REFER TO DETAIL 8/P6.02 FOR DISHWASHER CONNECTION DETAILS.
4. 1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
5. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.
6. RUN PIPING BELOW SECOND FLOOR, WITHIN THE BUILDING/SOFFIT.



1 PLUMBING PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

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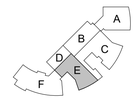
NOTES BY SYMBOL

1	3/4-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.
2	2-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.
3	3/4-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.
4	3/4-INCH DOMESTIC HOT WATER DOWN TO FIRST FLOOR.
5	1-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.
6	8-INCH STORM DRAIN DOWN TO BELOW GRADE.
7	6-INCH STORM DRAIN DOWN TO BELOW GRADE.
8	REFER TO DETAIL 8/P6.02 FOR DISHWASHER CONNECTION DETAILS.
9	1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
10	PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

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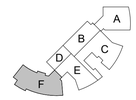
NOTES BY SYMBOL

1. 2-1/2-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR TO SUPPLY SCIENCE LABS.
2. 6-INCH STORM DRAIN DOWN TO BELOW GRADE.
3. 4-INCH STORM DRAIN DOWN TO BELOW GRADE.
4. PROVIDE DRAIN PAN BELOW ALL PIPING OVER IDF ROOM. PROVIDE WATER SENSING DISK IN BOTTOM OF PAN INTEGRATED INTO BAS SYSTEM TO SIGNAL ALARM IF WATER IS SENSED IN DRAIN PAN.
5. 1-INCH MAKE-UP WATER TO HEATING WATER LOOP. REF MECHANICAL DRAWING AND PLUMBING DETAIL 6/P6.01.
6. 1-INCH MAKE-UP WATER TO CHILLED WATER LOOP. REF MECHANICAL DRAWING AND PLUMBING DETAIL 6/P6.01.
7. PROVIDE WATER METER INTEGRATED INTO BMS SYSTEM TO RECORD WATER USAGE IN KITCHEN.
8. 1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
9. 3-INCH GAS UP TO ROOF. LOCATE APPROXIMATELY AS SHOWN. PROVIDE GAS TEST PORT 18-INCHES ABOVE FINISHED FLOOR.
10. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

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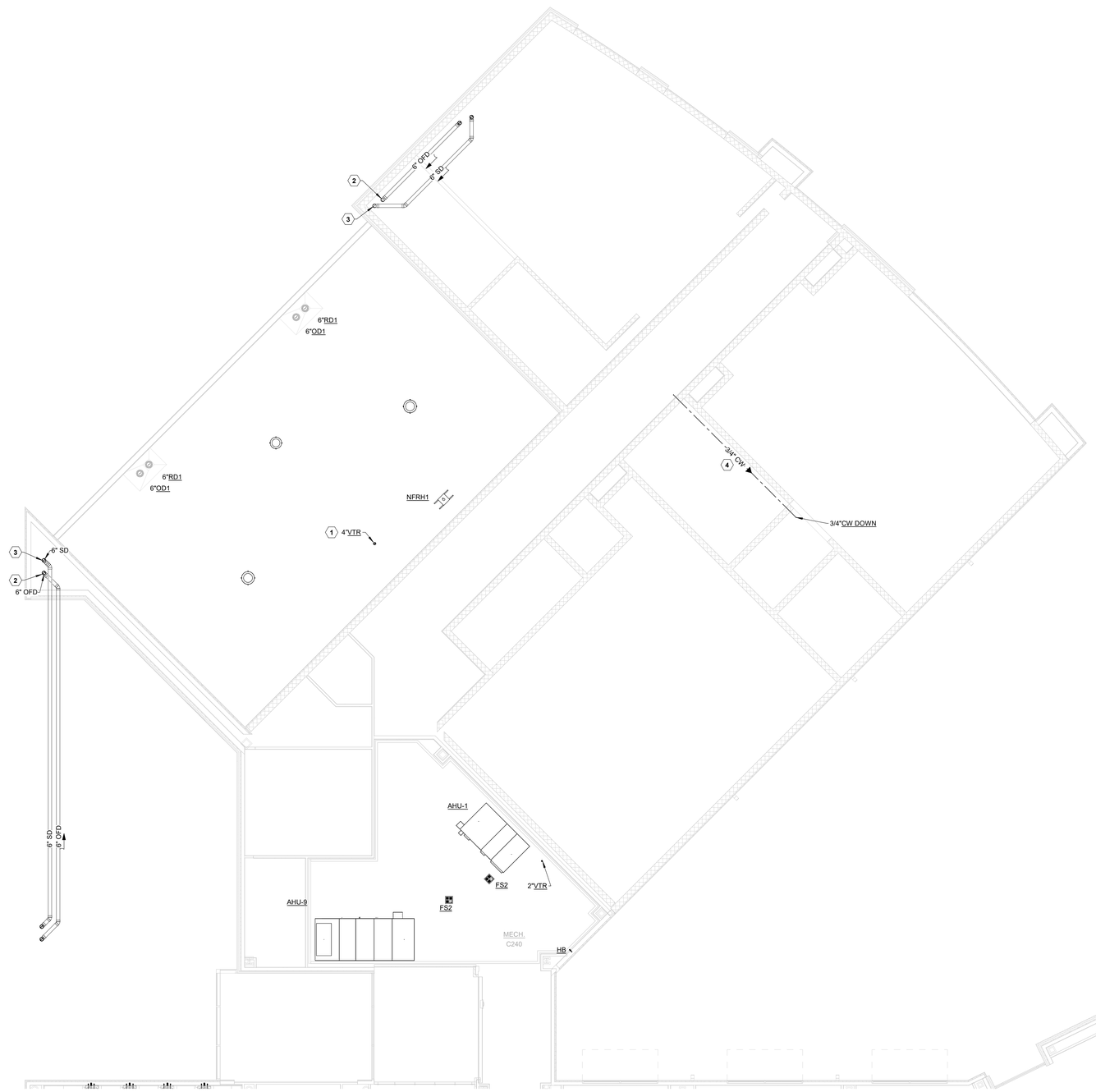
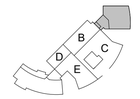
NOTES BY SYMBOL

1. MAINTAIN A MINIMUM OF 10-FOOT FROM VENT THRU ROOF TO FRESH AIR INTAKES.
2. 6-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.
3. 6-INCH STORM DRAIN DOWN TO BELOW GRADE.
4. RUN DOMESTIC COLD WATER PIPING WITHIN PLENUM, ABOVE RAISED CEILING.



1 PLUMBING PLAN - LEVEL 02 - AREA A
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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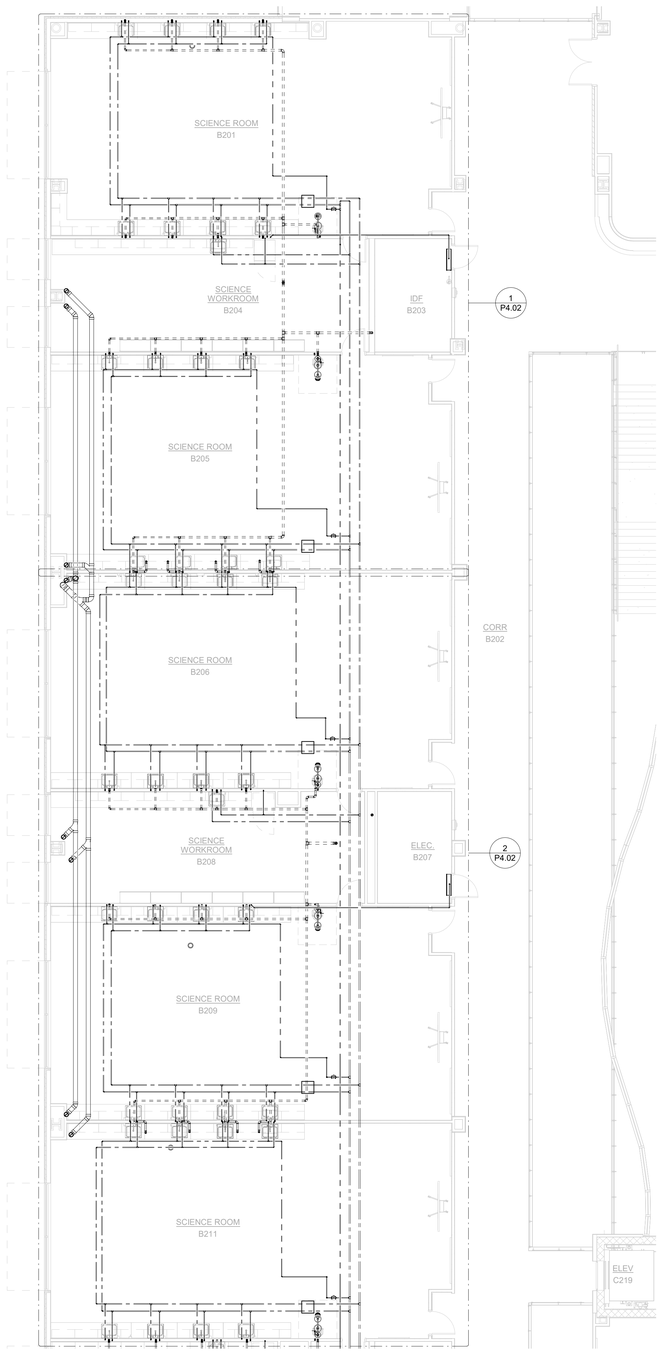
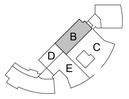


1 PLUMBING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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NOTES BY SYMBOL

1 3/4-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.

2 2-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.

3 3/4-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.

4 3/4-INCH DOMESTIC HOT WATER DOWN TO FIRST FLOOR.

5 1-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.

6 6-INCH STORM DRAIN DOWN TO BELOW GRADE.

7 6-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.

8 1-INCH DOMESTIC COLD WATER LINE UP TO NON-FREEZE ROOF HYDRANT.

9 6-INCH STORM DRAIN DOWN TO FIRST FLOOR PLENUM.

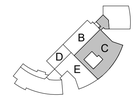
10 3/4-INCH CONDENSATE PUMPED ABOVE CEILING AND GRAVITY DRAINED TO POINT OF DISCHARGE.

11 CONDENSATE DOWN TO FLOOR SINK.

12 PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N

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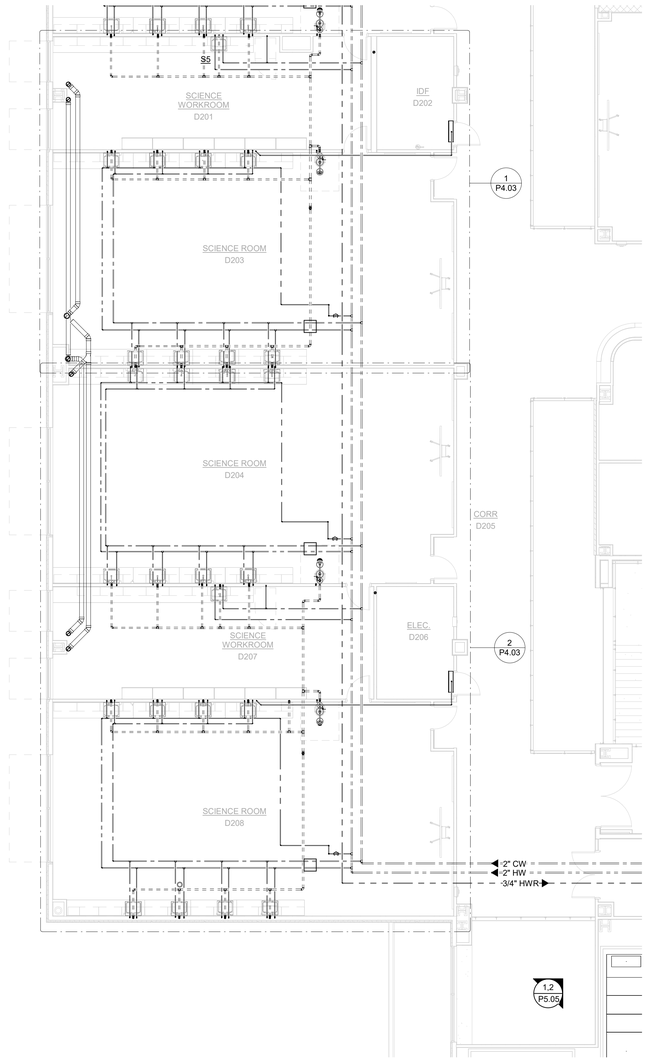
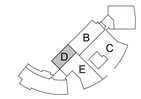


1 PLUMBING PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN
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PLUMBING PLAN - LEVEL 02 - AREA D

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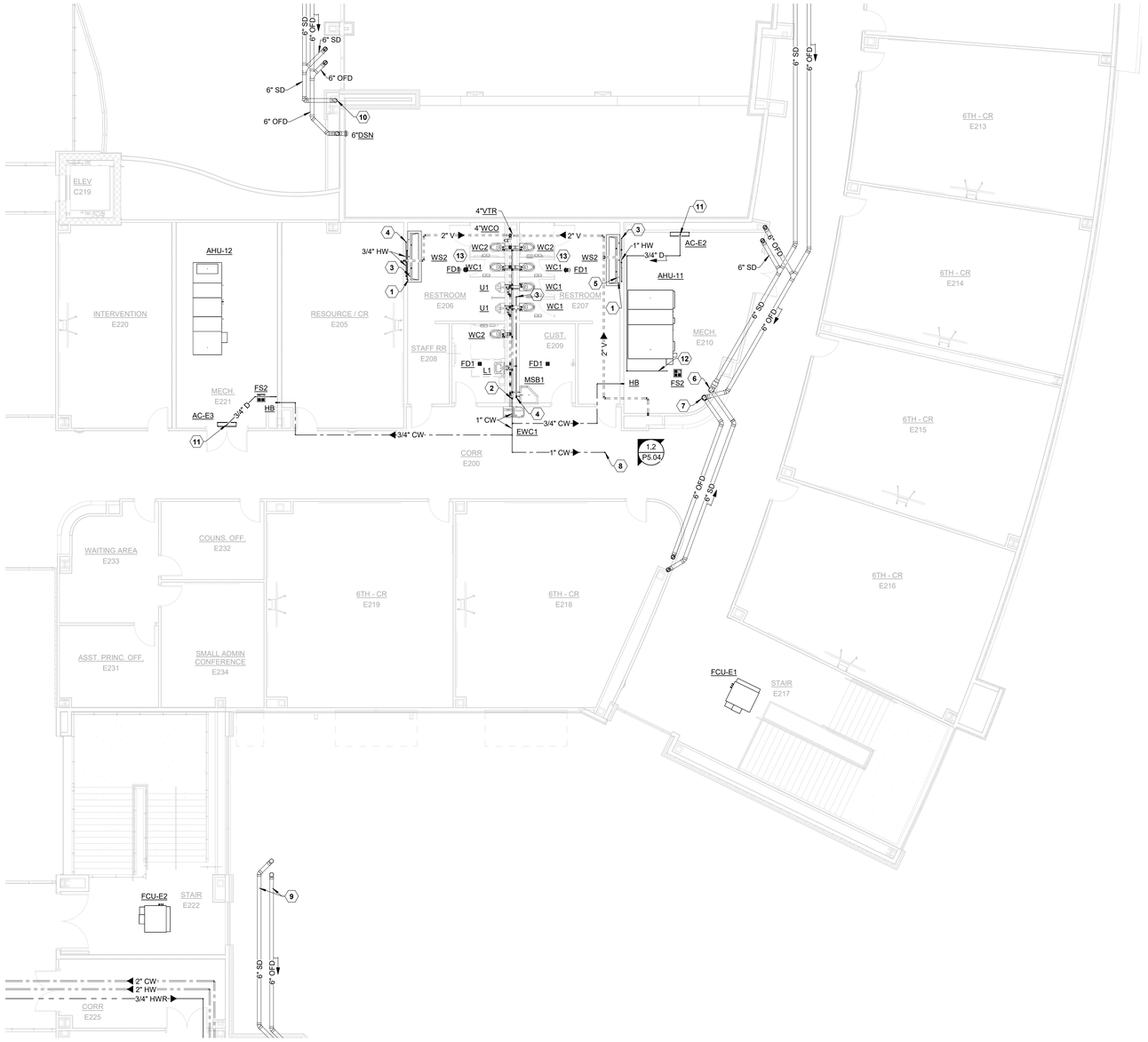
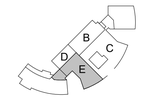
NOTES BY SYMBOL

1. 3/4-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.
2. 2-INCH DOMESTIC COLD WATER UP TO SECOND FLOOR.
3. 3/4-INCH DOMESTIC HOT WATER DOWN TO FIRST FLOOR.
4. 3/4-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.
5. 1-INCH DOMESTIC HOT WATER UP TO SECOND FLOOR.
6. 8-INCH STORM DRAIN DOWN TO BELOW GRADE.
7. 8-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.
8. 1-INCH DOMESTIC COLD WATER LINE UP TO NON-FREEZE ROOF HYDRANT.
9. PENETRATION OF STRUCTURE WILL BE REQUIRED IN ORDER TO PLUMB INTERNAL ROOF DRAINS.
10. 6-INCH STORM DRAIN DOWN TO FIRST FLOOR PLENUM.
11. 3/4-INCH CONDENSATE PUMPED ABOVE CEILING AND GRAVITY DRAINED TO POINT OF DISCHARGE.
12. CONDENSATE DOWN TO FLOOR SINK.
13. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.



1 PLUMBING PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
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NOTES BY SYMBOL

1 MAINTAIN A MINIMUM OF 10-FOOT FROM VENT THRU ROOF TO FRESH AIR INTAKES.

2 6-INCH STORM DRAIN DOWN TO BELOW GRADE.

3 6-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.

4 4-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.

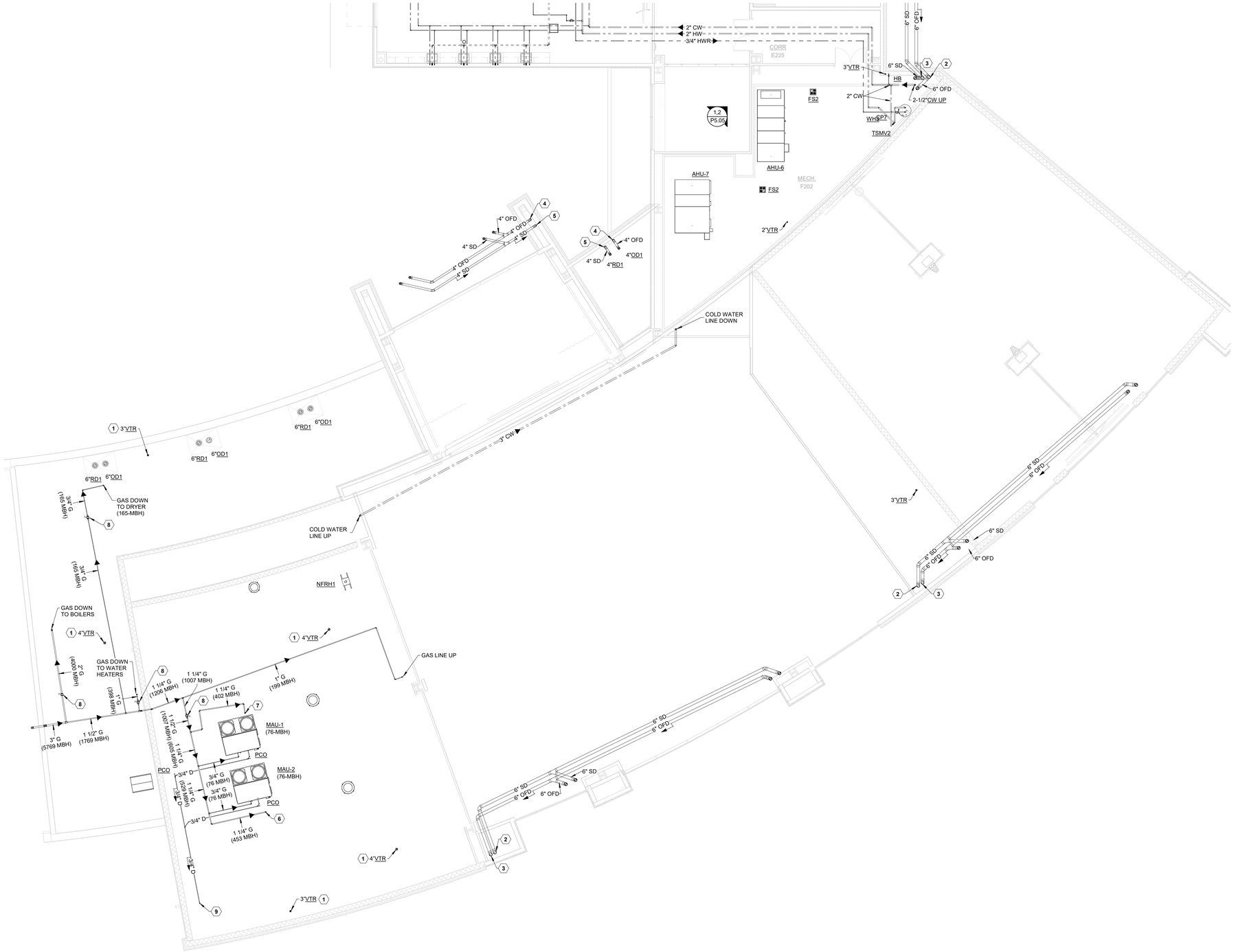
5 4-INCH STORM DRAIN DOWN TO BELOW GRADE.

6 1-1/4-INCH NATURAL GAS DOWN INTO KITCHEN.

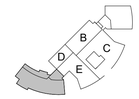
7 1-INCH NATURAL GAS DOWN INTO KITCHEN.

8 5-PSI TO <2-PSI REGULATOR. CONTRACTOR TO SET DISCHARGE PRESSURE AT REGULATOR, AS REQUIRED, TO ENSURE GAS PRESSURE IS DELIVERED TO ALL GAS-FIRE EQUIPMENT BEING SERVED PER MANUFACTURER'S PUBLISHED IOM.

9 3/4-INCH CONDENSATE DOWN THRU ROOF.



1 PLUMBING PLAN - LEVEL 02 - AREA F
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
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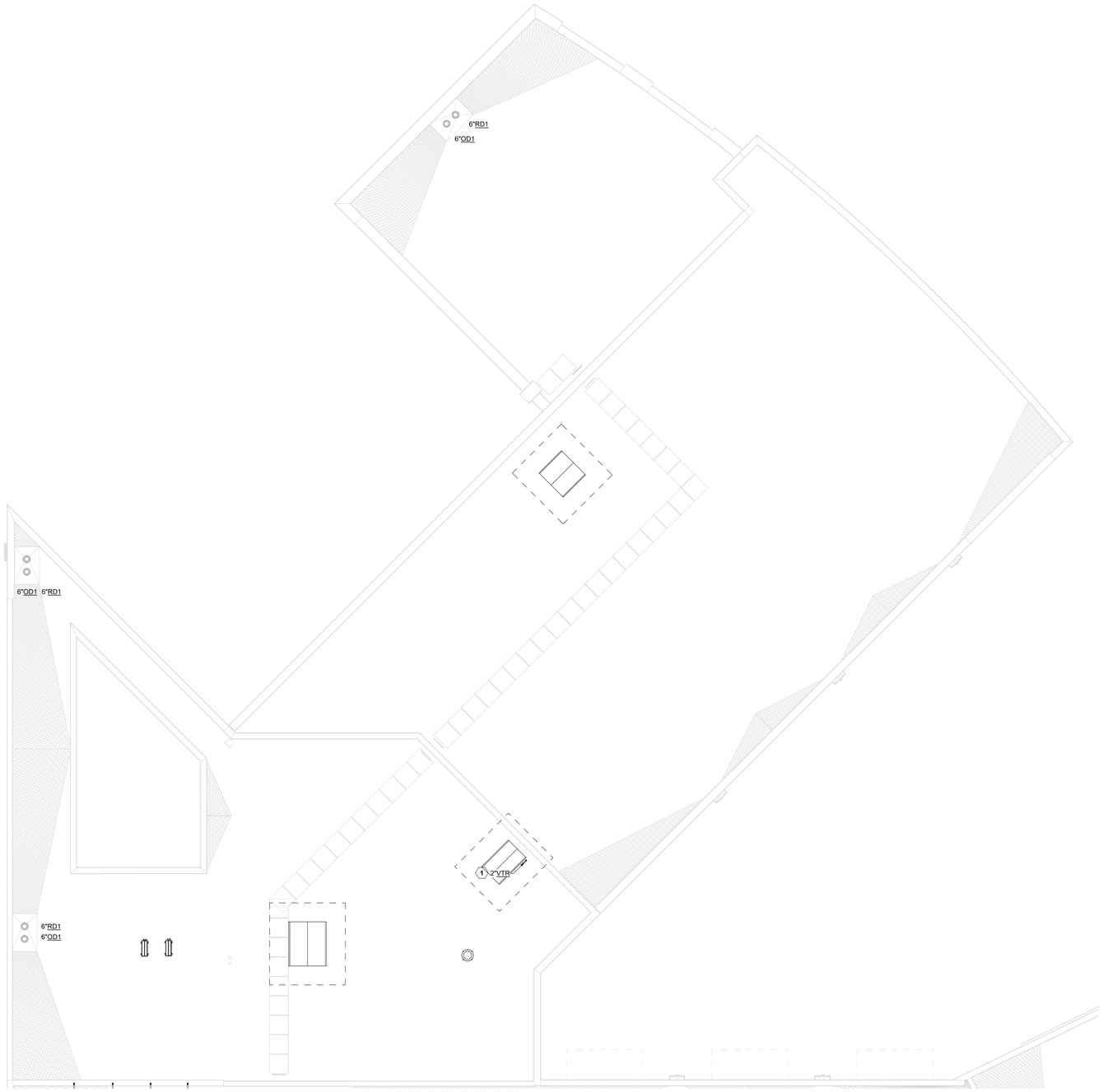
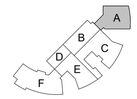


1 PLUMBING PLAN - ROOF - AREA A
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
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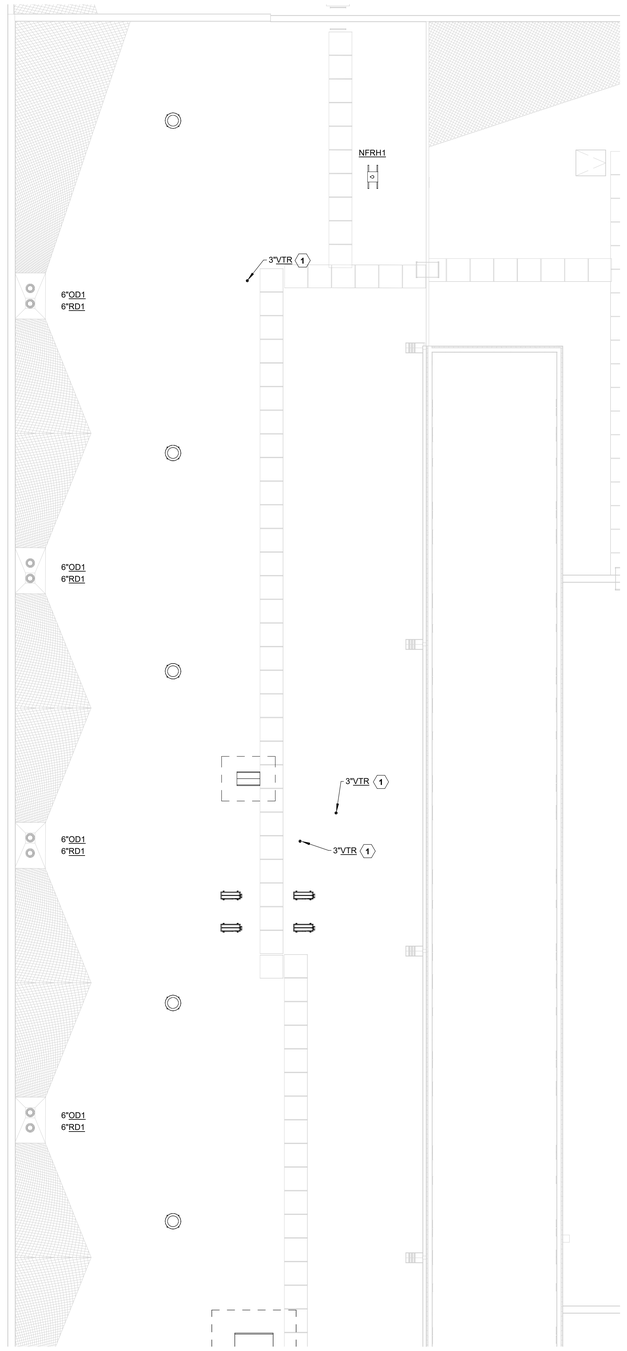
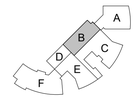
1 MAINTAIN A MINIMUM OF 10-FOOT FROM VENT THRU ROOF TO FRESH AIR INTAKES.



1 PLUMBING PLAN - ROOF - AREA B
1/8" = 1'-0"



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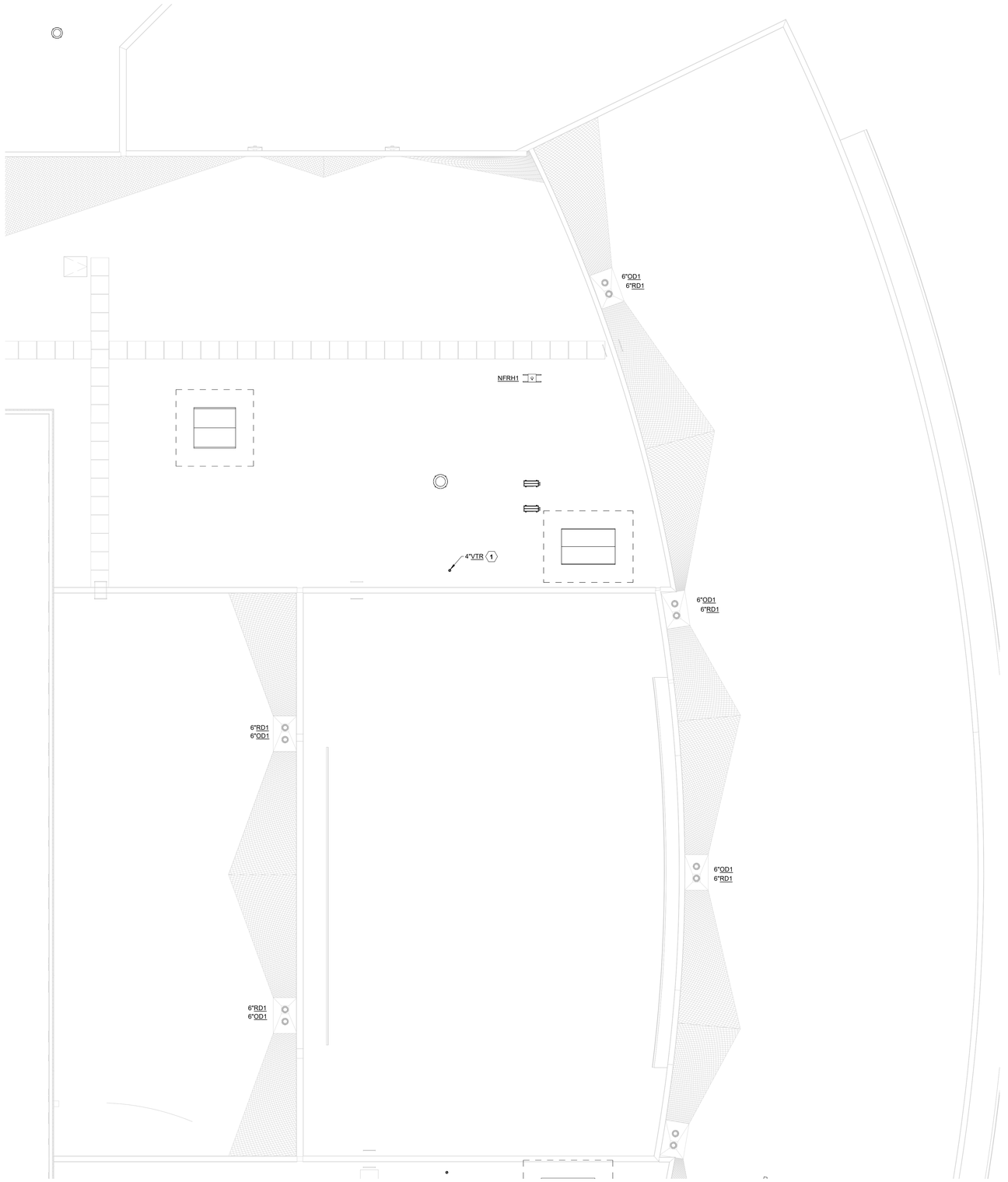
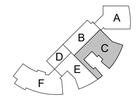


1 PLUMBING PLAN - ROOF - AREA C
1/8" = 1'-0"



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NOTES BY SYMBOL

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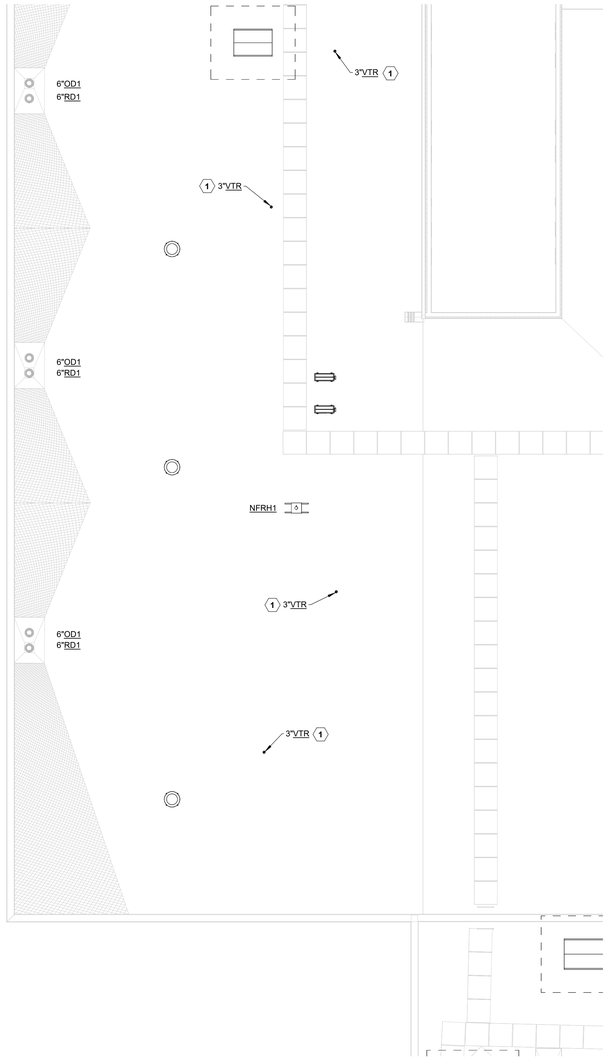
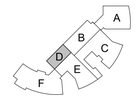


1 PLUMBING PLAN - ROOF - AREA D
1/8" = 1'-0"



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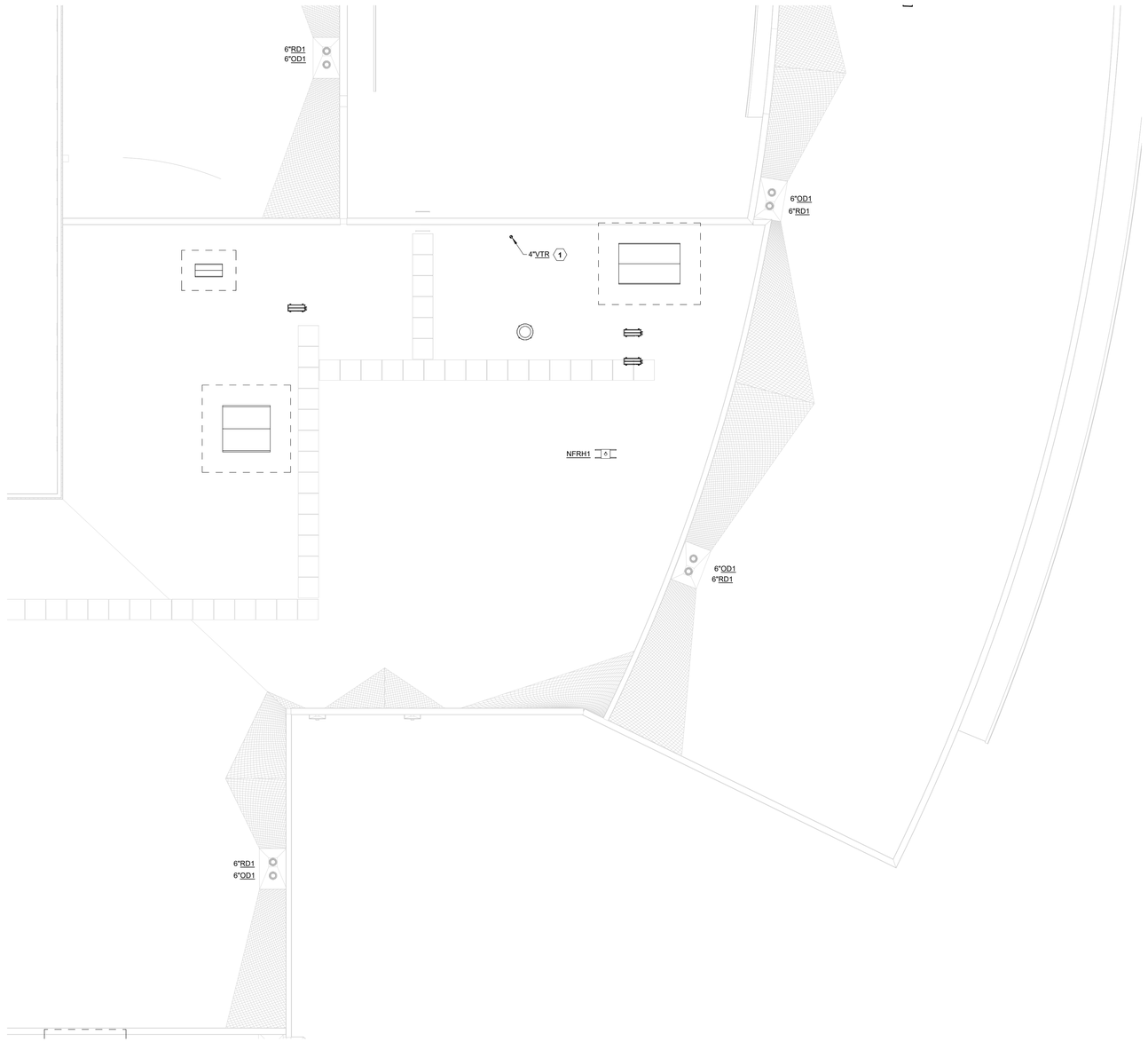
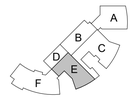


1 PLUMBING PLAN - ROOF - AREA E
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
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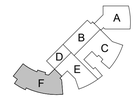
NOTES BY SYMBOL

1 MAINTAIN A MINIMUM OF 10-FOOT FROM VENT THRU ROOF TO FRESH AIR INTAKES.

2 5-PSI TO <2-PSI REGULATOR. CONTRACTOR TO SET DISCHARGE PRESSURE AT REGULATOR, AS REQUIRED, TO ENSURE GAS PRESSURE IS DELIVERED TO ALL GAS-FIRE EQUIPMENT BEING SERVED PER MANUFACTURER'S PUBLISHED IOM.



1 PLUMBING PLAN - ROOF - AREA F
1/8" = 1'-0"



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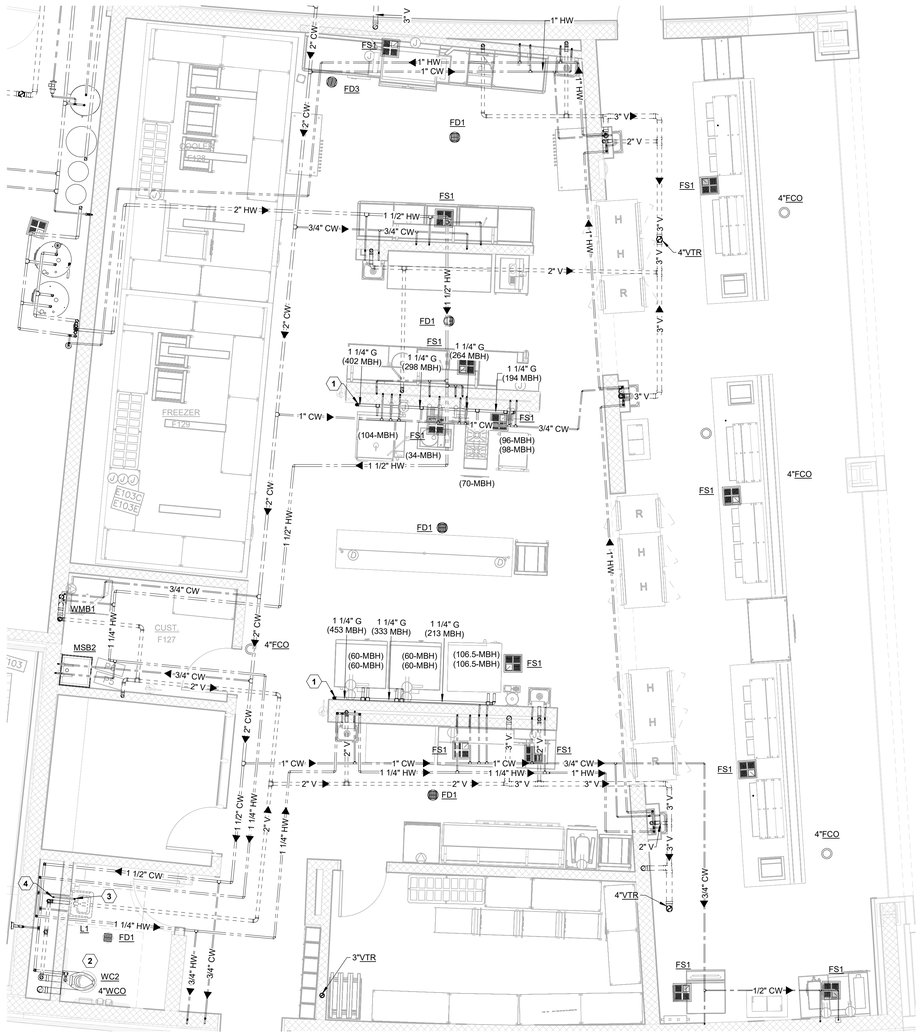
GENERAL KITCHEN NOTES

1. PLUMBING CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT/FIXTURES.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL INDIRECT WASTE PIPING FROM FIXTURES/EQUIPMENT TO FLOOR SINKS VIA AIR GAP. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
3. PROVIDE POINT OF USE THERMOSTATIC MIXING VALVES AT ALL DOMESTIC HOT WATER CONNECTIONS THAT DO NOT REQUIRE 140-DEGREE HOT WATER. LEONARD 270-LF OR APPROVED EQUAL.
   A. ALL HAND WASH SINKS AND LAVATORIES SHALL BE TEMPERED TO 105-DEGREES (110-DEGREES MAX).
   B. ALL OTHER SINKS/FAUCETS SHALL BE TEMPERED PER FOOD SERVICE CONSULTANTS SPECIFICATIONS. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
4. PROVIDE QUICK-DISCONNECTS AND BALL VALVE W/UNION FITTINGS AT EACH GAS CONNECTION TO EQUIPMENT.
5. PROVIDE SOLENOID VALVE IN GAS LINE AHEAD OF COOKING EQUIPMENT FOR AUTO GAS SHUTOFF. SEE HOOD FIRE SUPPRESSION DRAWINGS FOR INTERLOCK REQUIREMENTS. COORDINATE REQUIREMENTS WITH FIRE ALARM CONTRACTOR.
6. ALL DOMESTIC WATER CONNECTIONS TO FOOD SERVICE EQUIPMENT TO BE PROVIDED WITH INLINE BACKFLOW PREVENTION DEVICE ANSI/ASSE RATED FOR INTENDED USE AS REQUIRED BY CODE.
7. PROVIDE SUPPLY STOPS FOR ALL DOMESTIC COLD AND HOT WATER CONNECTIONS TO KITCHEN FIXTURES/EQUIPMENT.
8. PROVIDE INLINE BOOSTER PUMP ON UPSTREAM SIDE OF WATER FILTERS SERVING KITCHEN EQUIPMENT AS REQUIRED BY FOOD SERVICE CONSULTANT.

NOTES BY SYMBOL

1. 1-1/4-INCH NATURAL GAS DOWN INTO KITCHEN.
2. PROVIDE FIXTURE FLUSH VALVE WITH OPTIONAL TRAP PRIMER ACCESSORY. EXTEND PIPING FROM TRAP PRIMER TAP TO FLOOR DRAIN TAP.
3. 3/4-INCH CONDENSATE DOWN THRU ROOF.
4. CONDENSATE DOWN TO BRANCH TAILPIECE CONNECTION AT LAV/SINK. REFER TO DETAIL 9/P6.02 FOR ADDITIONAL INFORMATION.



1 ENLARGED KITCHEN PLUMBING PLAN - LEVEL 01 - AREA F
1/4" = 1'-0" BACK REF: P2.1F

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PLUMBING ENLARGED PLAN - KITCHEN

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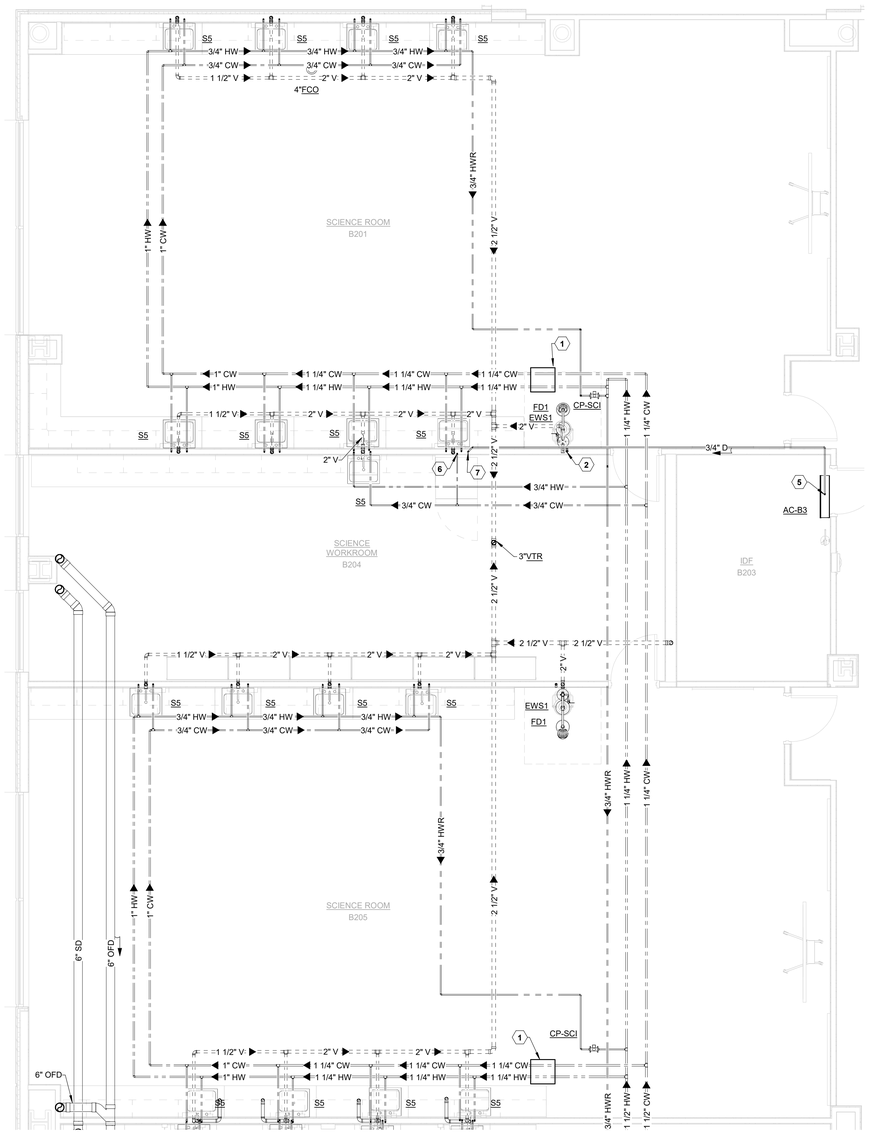
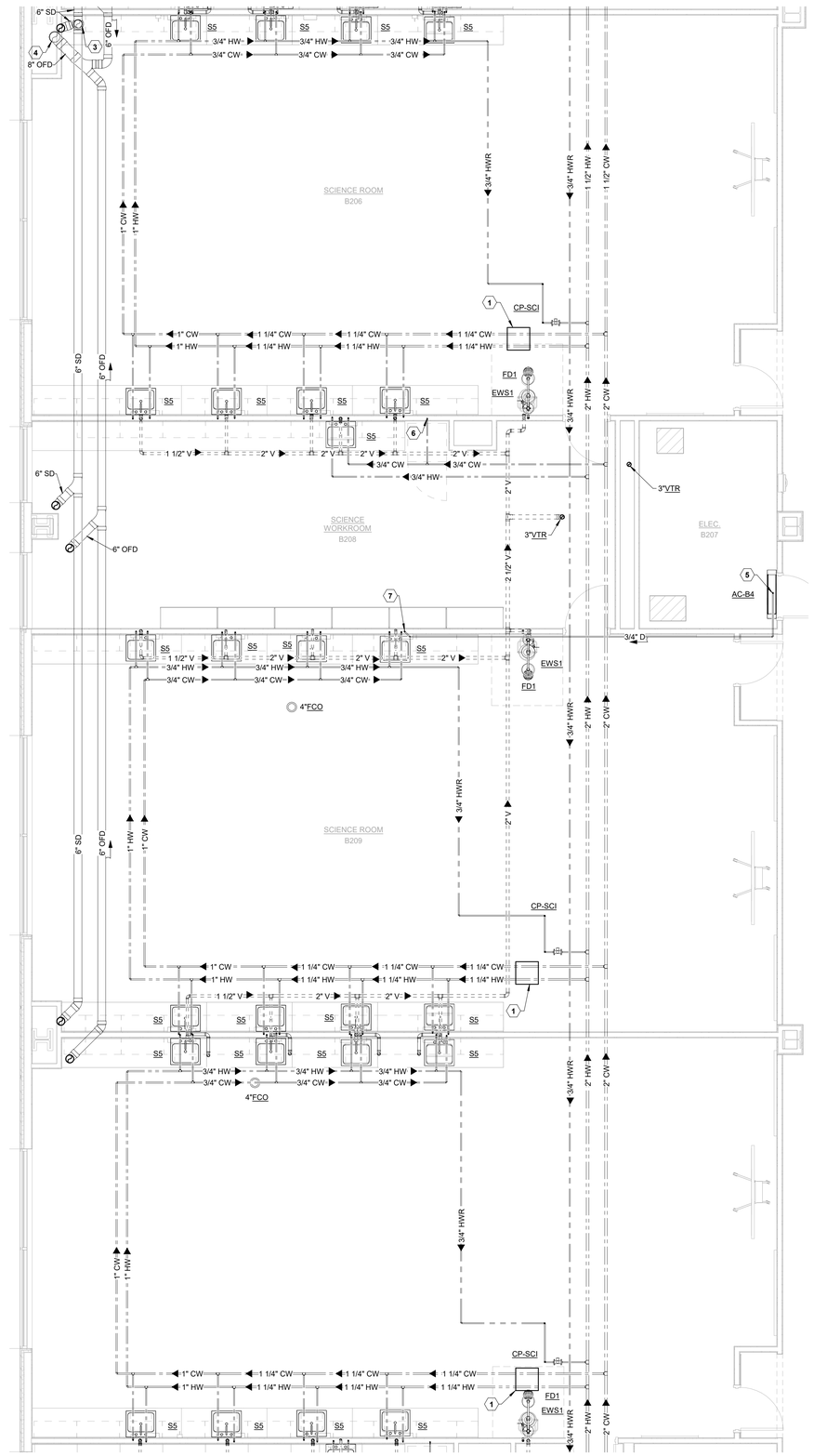
NOTES BY SYMBOL

1. SOLENOID VALVE BOX ENCLOSURE ABOVE CEILING. REFER TO DETAIL 2/P6.01 FOR ADDITIONAL INFORMATION.
2. 1-1/4-INCH DOMESTIC COLD WATER UP TO EMERGENCY EYEWASH STATIONS ON SECOND FLOOR.
3. 8-INCH STORM DRAIN DOWN TO BELOW GRADE.
4. 8-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.
5. 3/4-INCH CONDENSATE PUMPED ABOVE CEILING AND GRAVITY DRAINED TO POINT OF DISCHARGE.
6. 1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
7. CONDENSATE DOWN TO BRANCH TAILPIECE CONNECTION AT LAV/SINK. REFER TO DETAIL 9/P6.02 FOR ADDITIONAL INFORMATION.



1 ENLARGED SCIENCE LAB PLUMBING PLAN - LEVEL 02-1
1/4" = 1'-0" BACK REF: P2.2B



2 ENLARGED SCIENCE LAB PLUMBING PLAN - LEVEL 02-2
1/4" = 1'-0" BACK REF: P2.2B

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PLUMBING ENLARGED PLAN - SCIENCE CLASSROOMS
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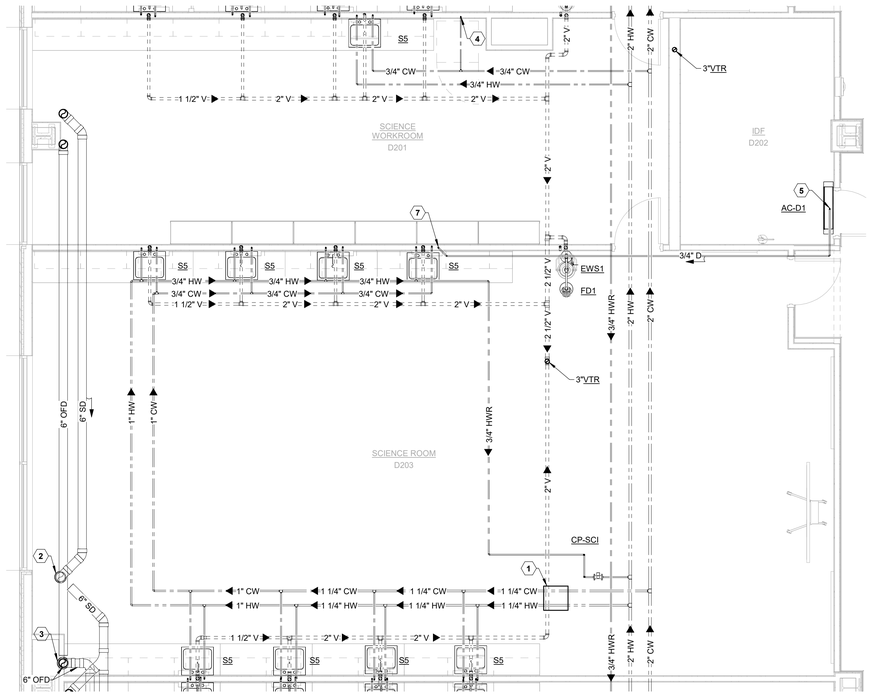
NOTES BY SYMBOL

1	SOLENOID VALVE BOX ENCLOSURE ABOVE CEILING. REFER TO DETAIL 2/P6.01 FOR ADDITIONAL INFORMATION.
2	8-INCH STORM DRAIN DOWN TO BELOW GRADE.
3	8-INCH OVERFLOW DRAIN DOWN TO FIRST FLOOR.
4	1/2-INCH DOMESTIC COLD WATER SUPPLY TO REFRIGERATOR.
5	3/4-INCH CONDENSATE PUMPED ABOVE CEILING AND GRAVITY DRAINED TO POINT OF DISCHARGE.
6	
7	CONDENSATE DOWN TO BRANCH TAILPIECE CONNECTION AT LAV/SINK. REFER TO DETAIL 9/P6.02 FOR ADDITIONAL INFORMATION.



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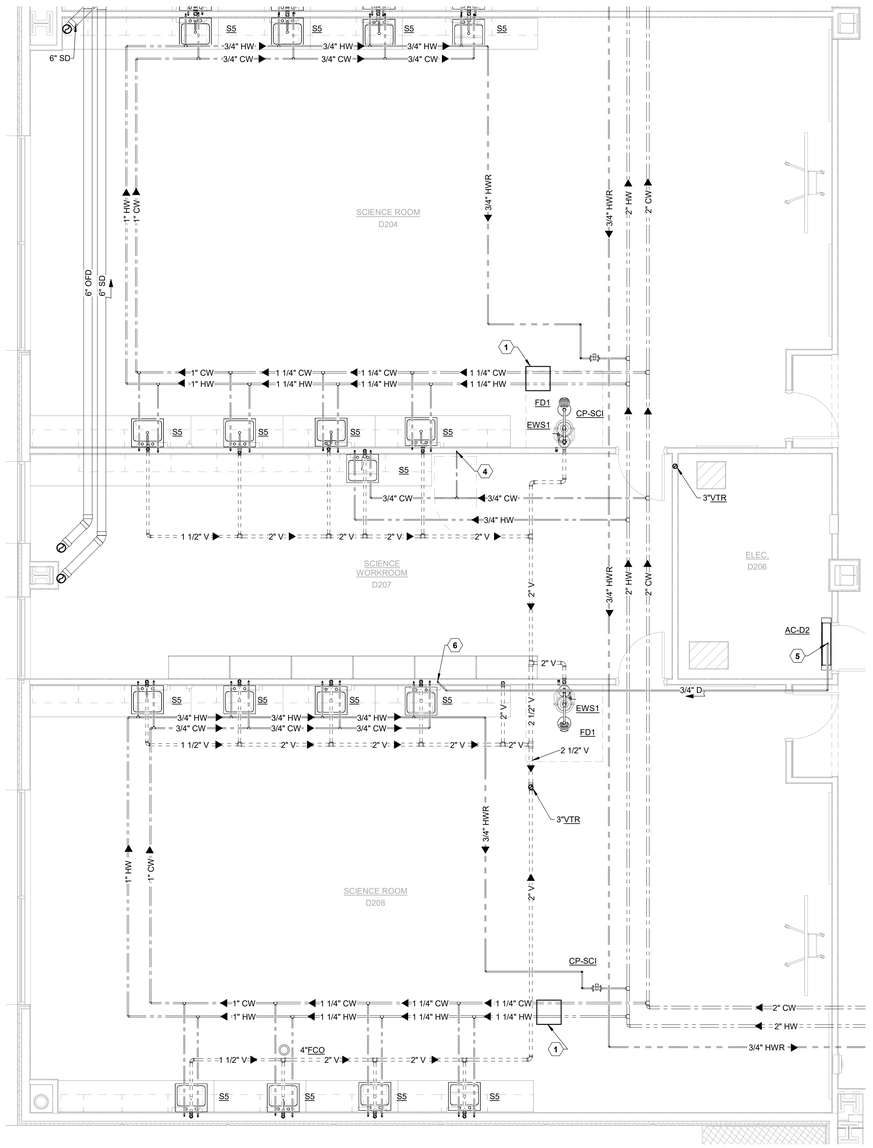

2 ENLARGED SCIENCE LAB PLUMBING PLAN - LEVEL 02-4
1/4" = 1'-0" BACK REF: P2.2D

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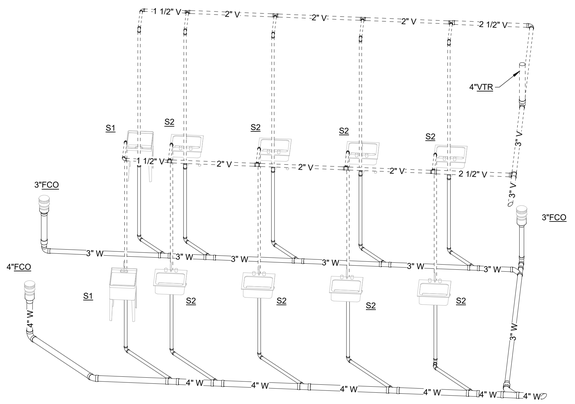

1 SANITARY WASTE AND VENT RISER DIAGRAM
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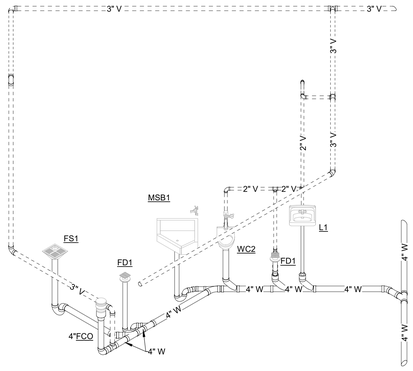

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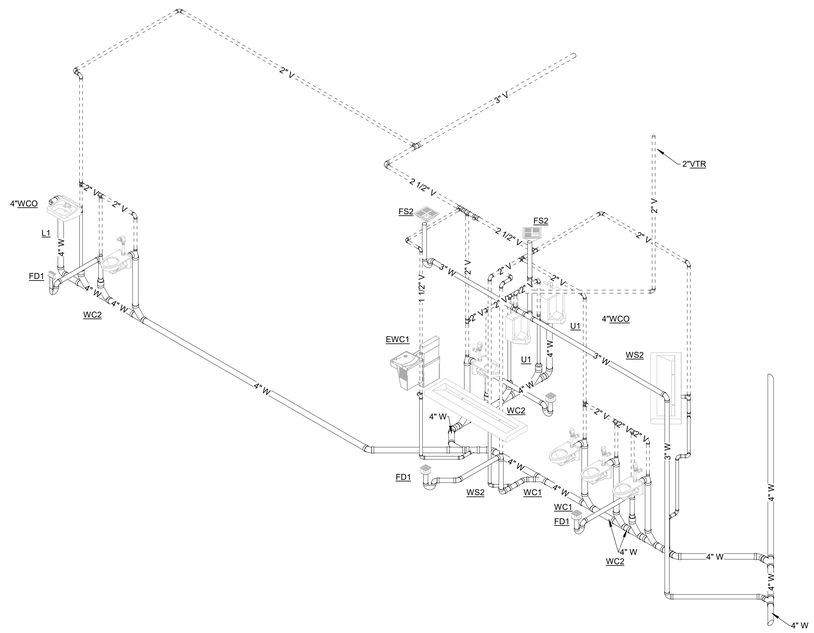

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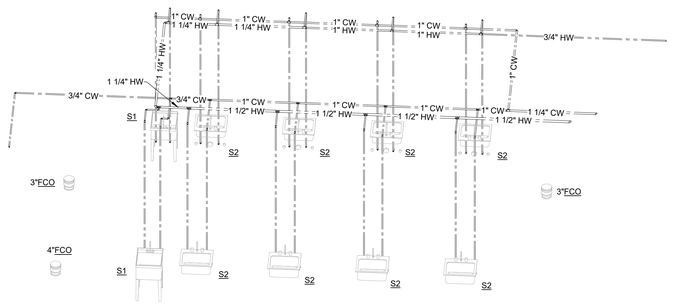

2 DOMESTIC WATER SUPPLY DIAGRAM
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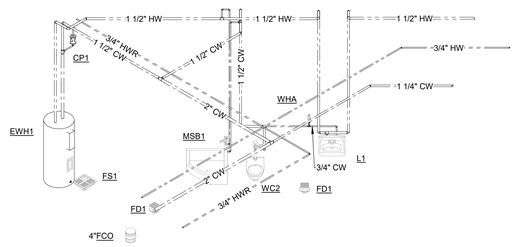

4 DOMESTIC WATER SUPPLY DIAGRAM
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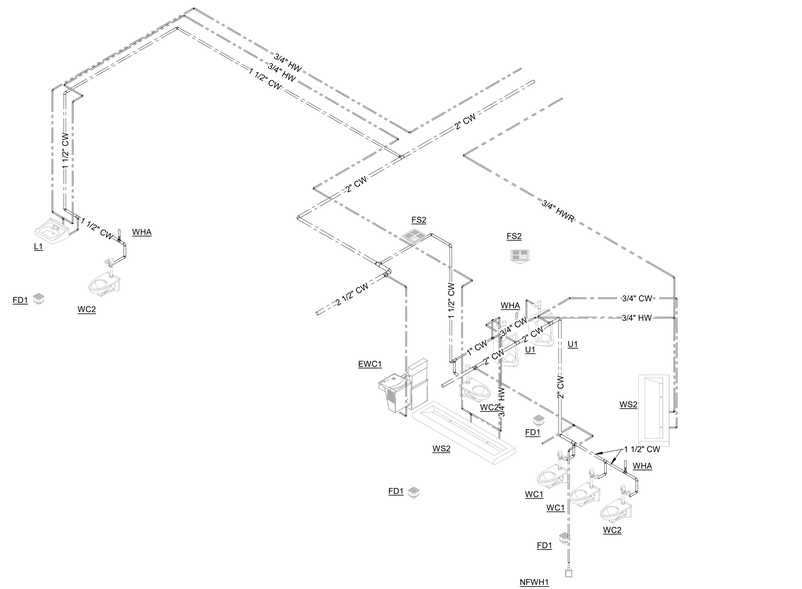

6 DOMESTIC WATER SUPPLY DIAGRAM
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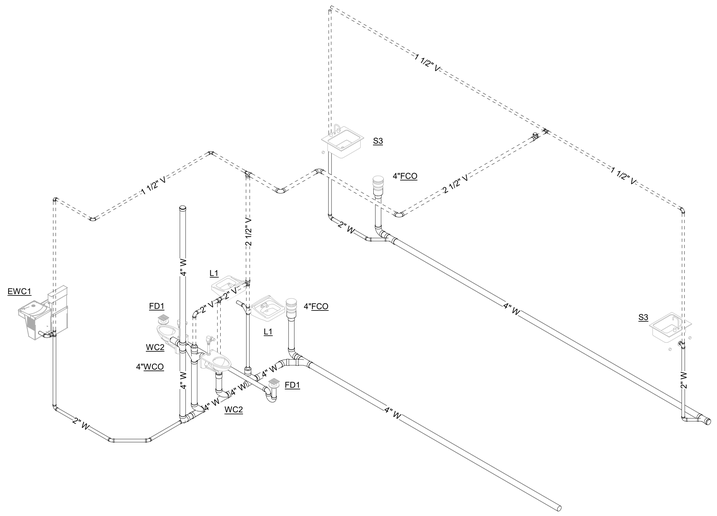

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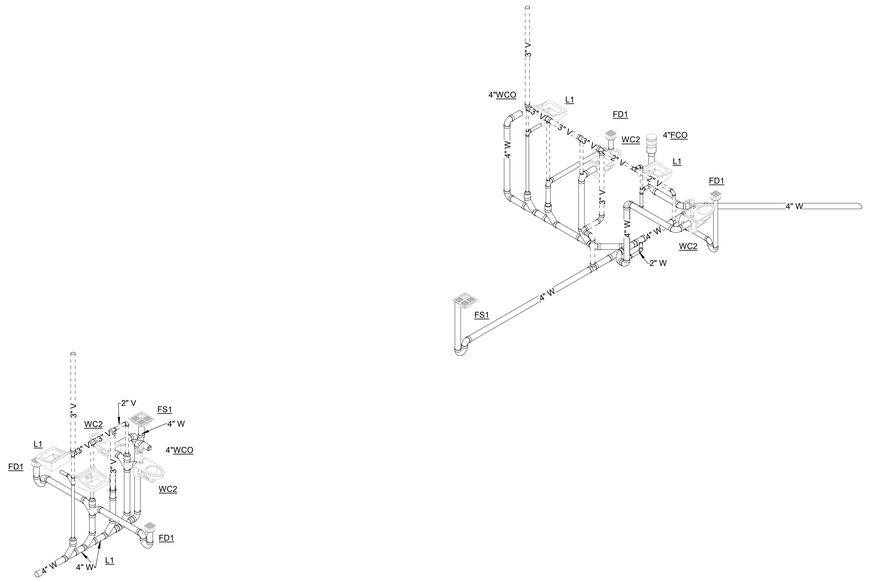

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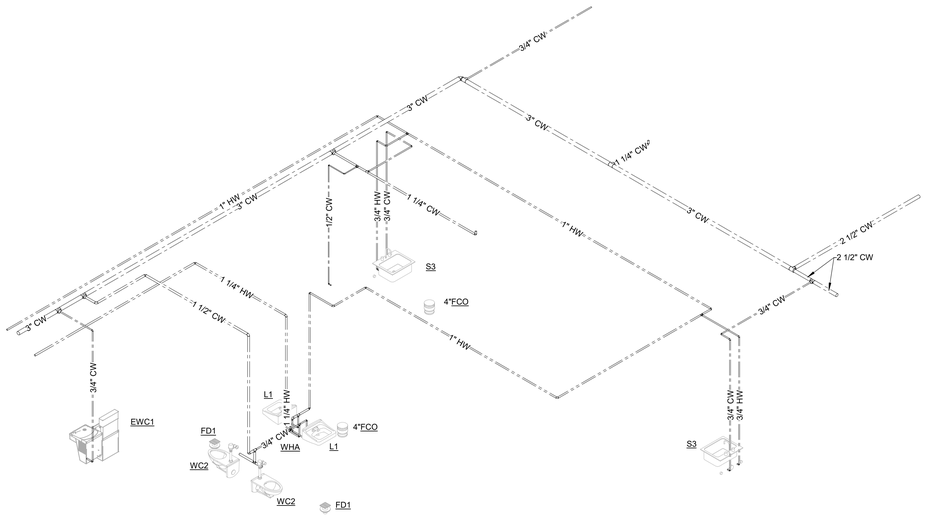

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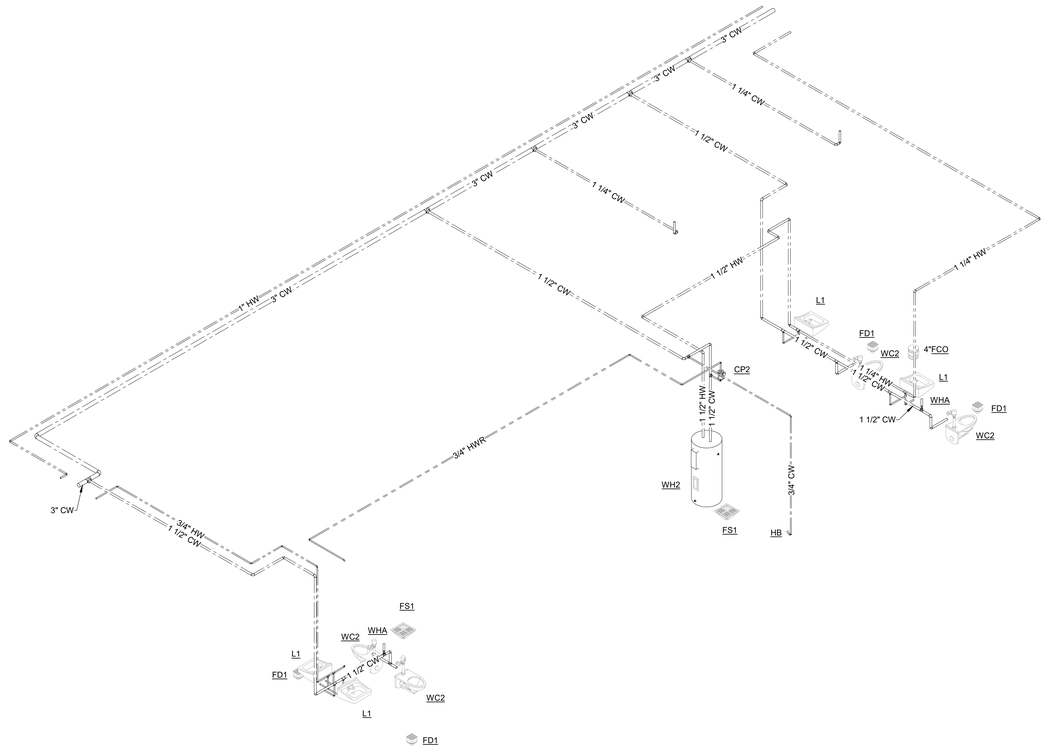

4 DOMESTIC WATER SUPPLY DIAGRAM
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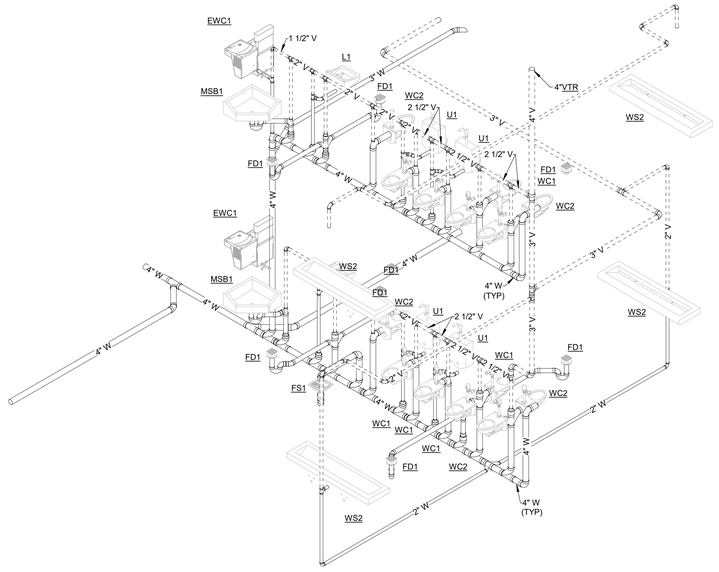

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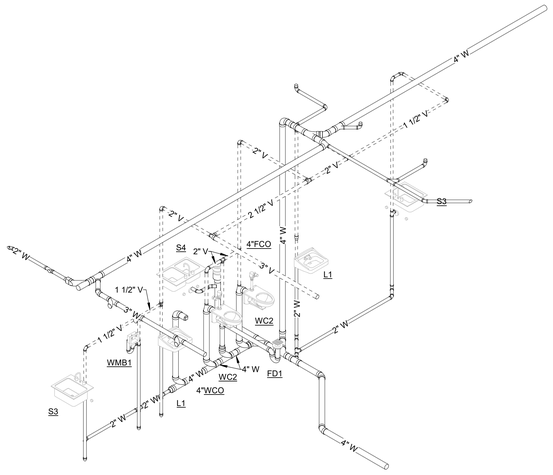

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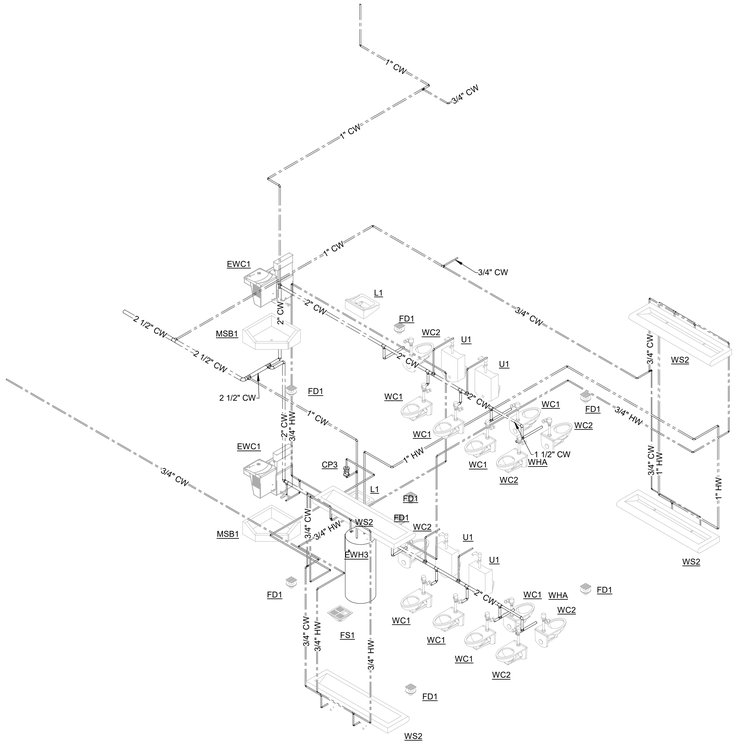

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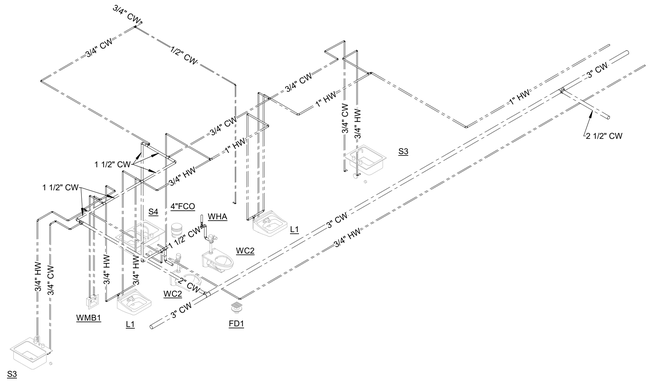

4 DOMESTIC WATER SUPPLY DIAGRAM
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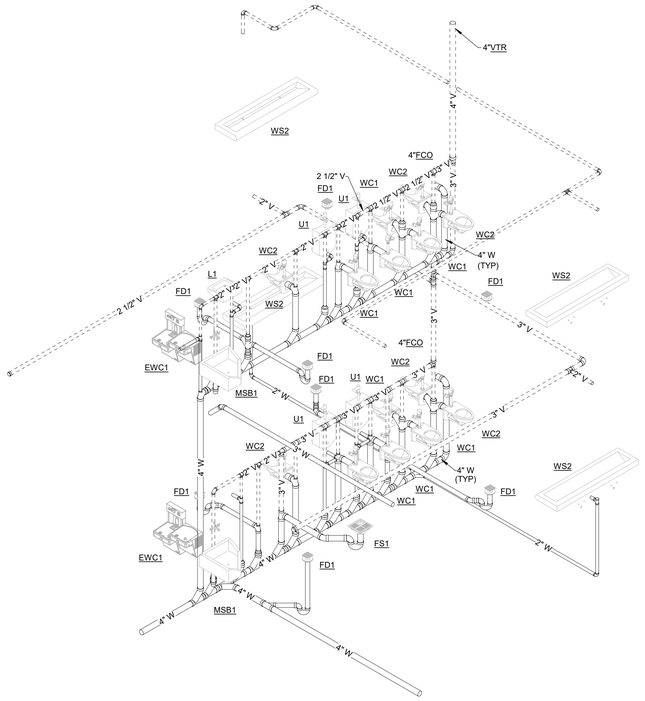

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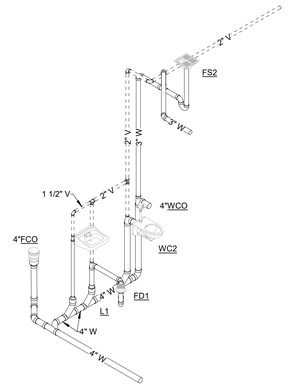

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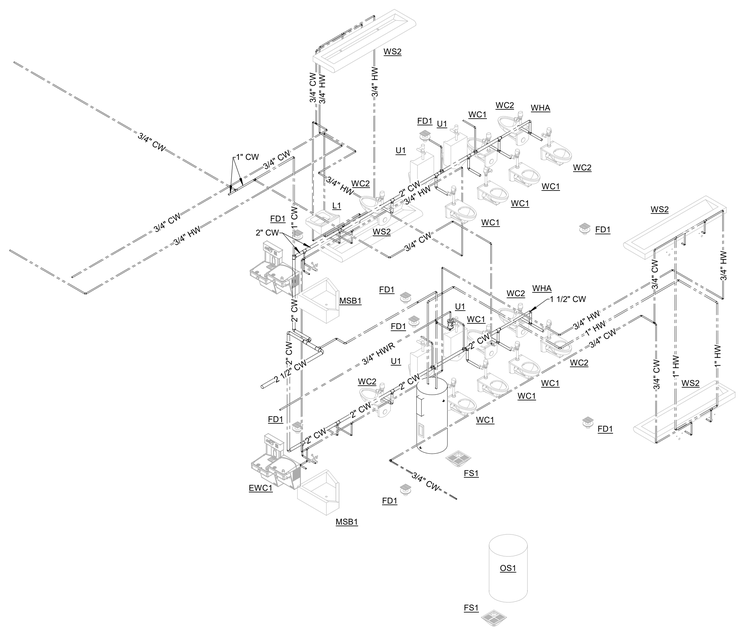

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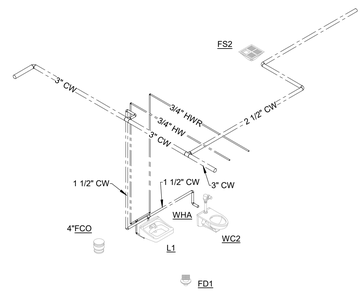

4 SANITARY WASTE AND VENT RISER DIAGRAM
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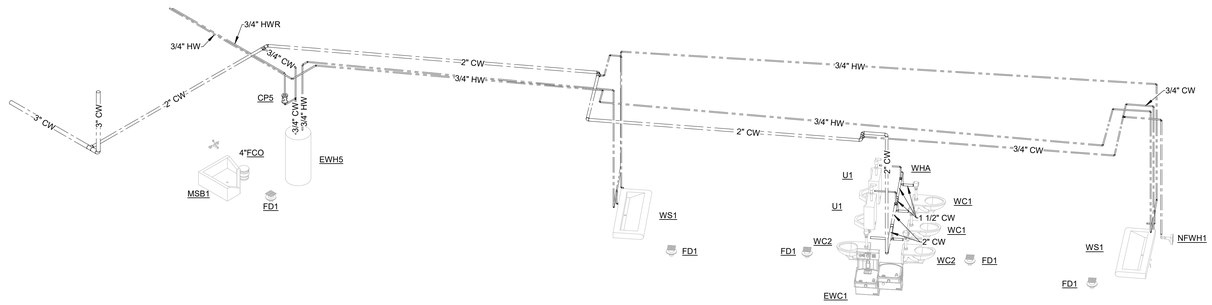

2 DOMESTIC WATER SUPPLY DIAGRAM
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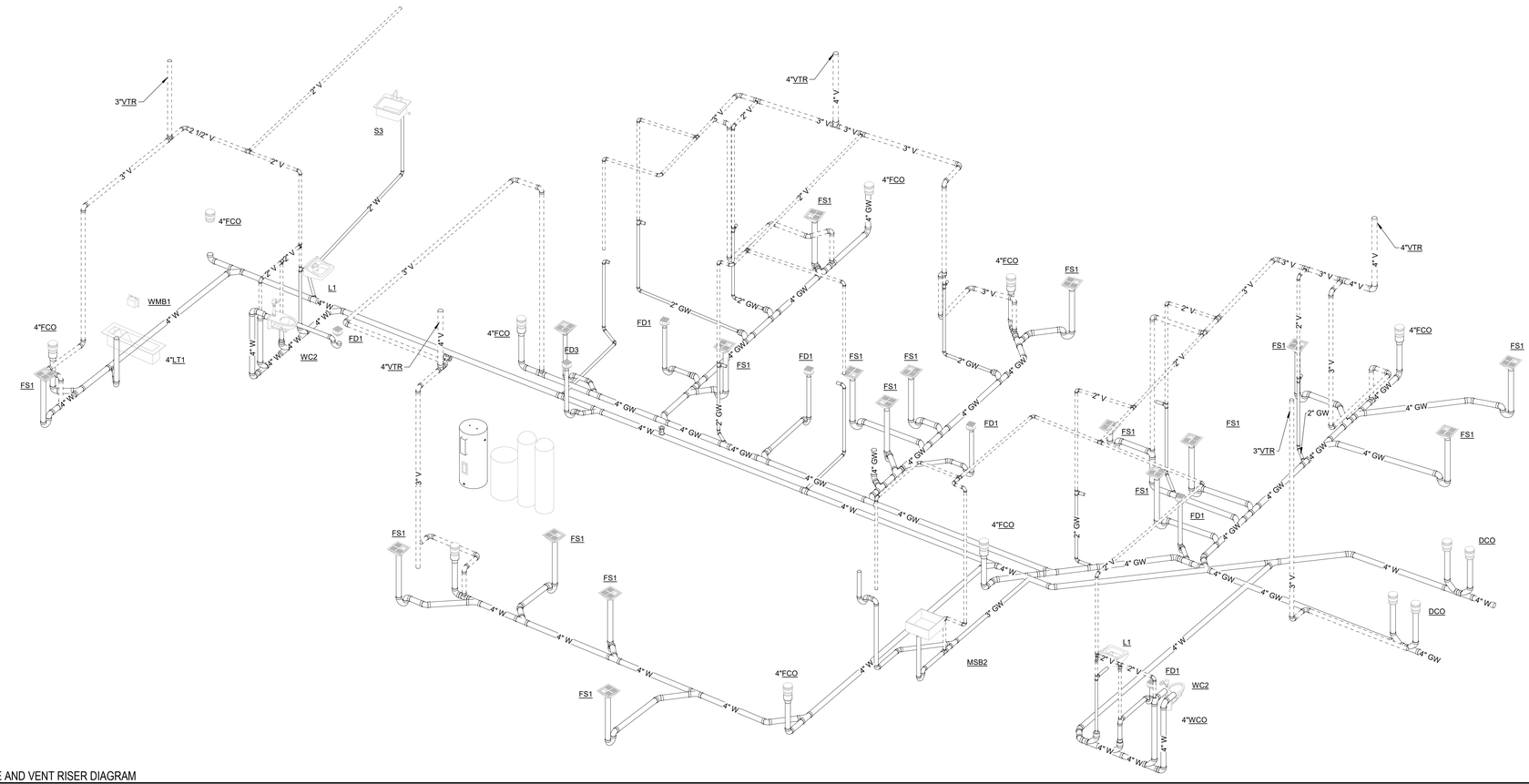

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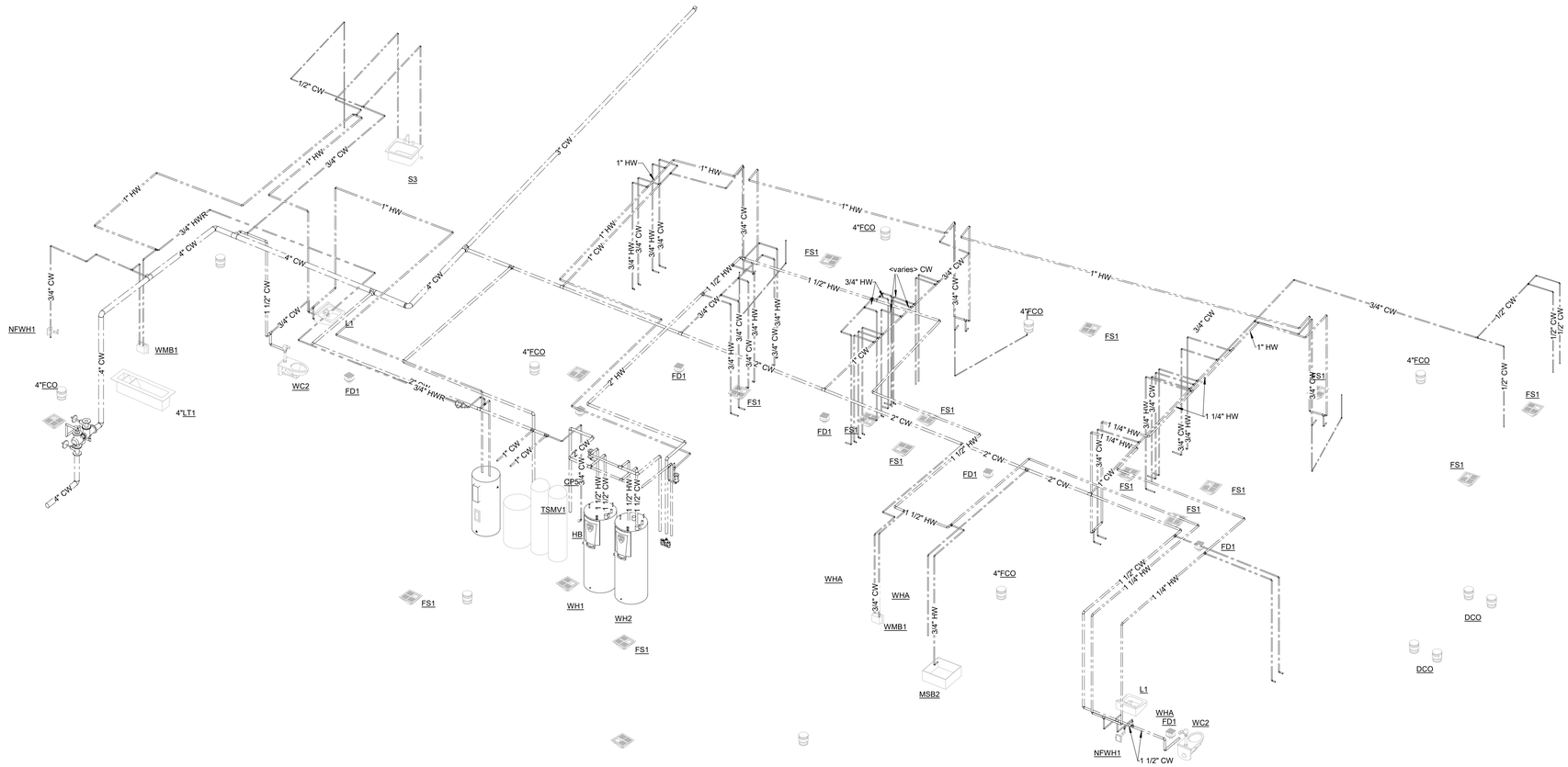

2 DOMESTIC WATER SUPPLY DIAGRAM
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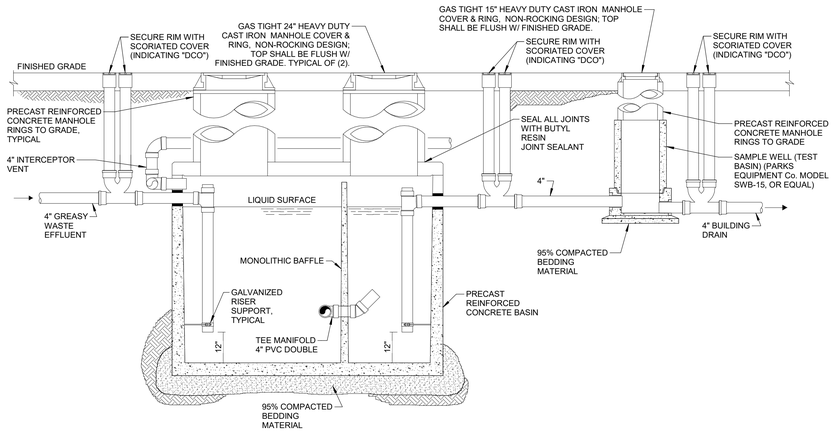

INTERCEPTOR NOTES

1. SEAL ALL PIPE PENETRATIONS WATERTIGHT
2. COAT INTERIOR OF BASIN WITH (2) COATS OF POLYURETHANE
3. REFER TO PLANS FOR PIPE SIZES, INVERT ELEVATIONS AND ROUTING
4. SECONDARY COMPARTMENT HAS VOLUME EQUAL TO 1/3 OF TOTAL CAPACITY
5. ALL PIPE AND FITTINGS SHALL BE CAST IRON
6. WALLS AND BOTTOM SHALL BE REINFORCED THROUGHOUT WITH 2x6, 6/10 MESH
7. COVER SHALL BE REINFORCED LONGITUDINALLY WITH NO.6 REBAR ON 6" CENTERS, NO.4 REBAR ON 6" CENTERS WIDTH WAYS, AND NO.8 REBAR DIAGONALLY AROUND ACCESS HOLES
8. GREASE INTERCEPTOR SHALL MEET THE APPROVAL OF LOCAL AUTHORITY.
9. MAX. 10'-0" BETWEEN MANHOLES.
10. ALL CONSTRUCTION SHALL CONFORM TO H-20 LIVE LOAD LOADING.
11. INTERCEPTOR WALLS AND BOTTOM SLAB SHALL BE DESIGNED FOR AN EQUIVALENT FLUID SOIL PRESSURE OF 40 Pcf/ft, INCLUDING TRUCK LOADING SURCHARGE NOTED IN NOTE 10 ABOVE.

1 TWO-COMPARTMENT GREASE INTERCEPTOR DETAIL
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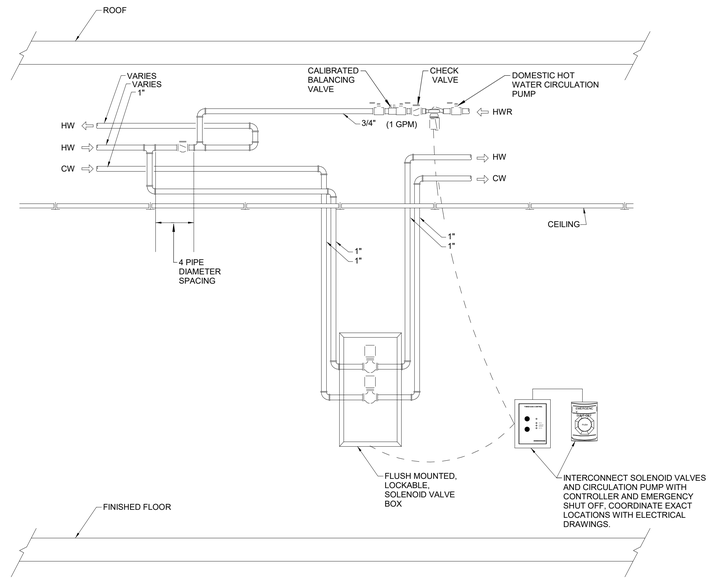

2 SCIENCE CLASSROOM UTILITY CONTROLS VALVE BOX DETAIL
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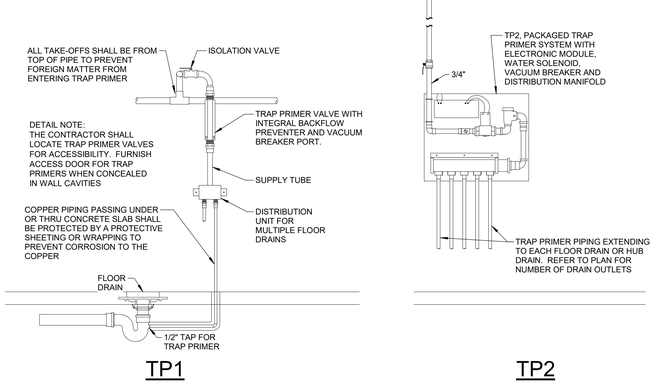

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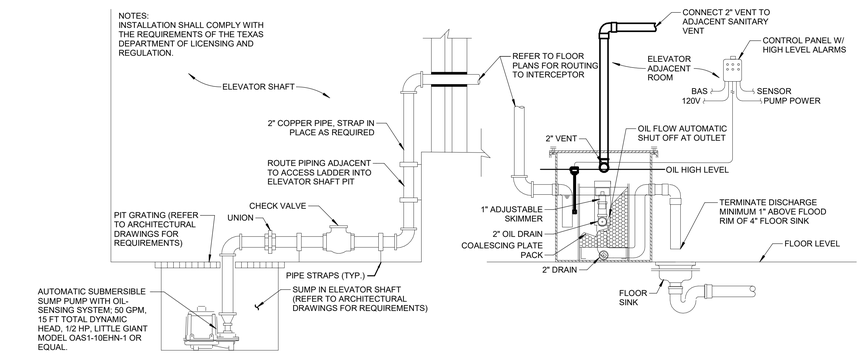

4 ABOVE GROUND ELEVATOR OIL SEPERATOR DETAIL
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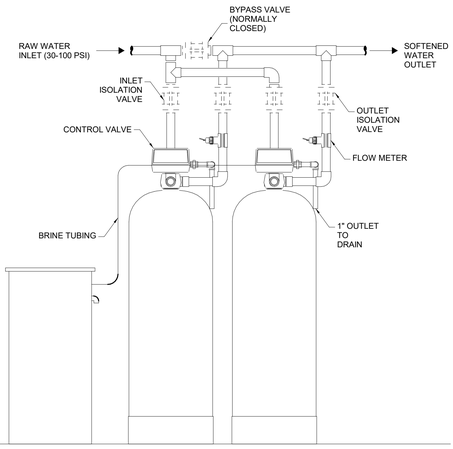

5 WATER SOFTENER AND BRINE TANK CONNECTIONS DETAIL
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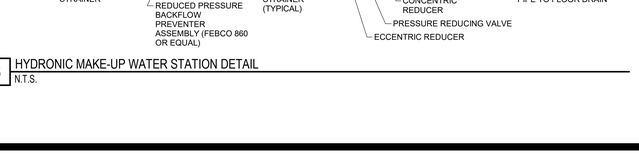

6 HYDRONIC MAKE-UP WATER STATION DETAIL
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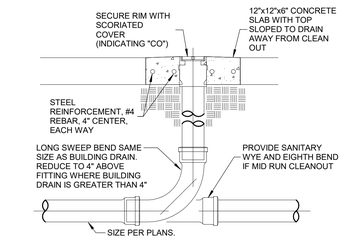

7 GRADE CLEANOUT DETAIL
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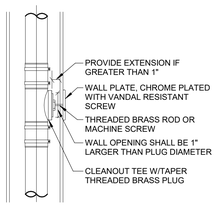

8 WALL CLEANOUT DETAIL
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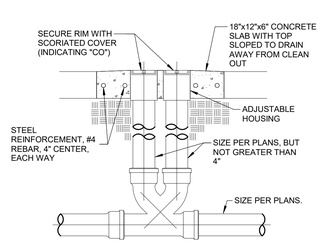

9 DOUBLE CLEANOUT DETAIL
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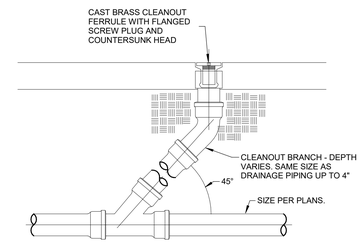

10 FLOOR CLEANOUT DETAIL
N.T.S.

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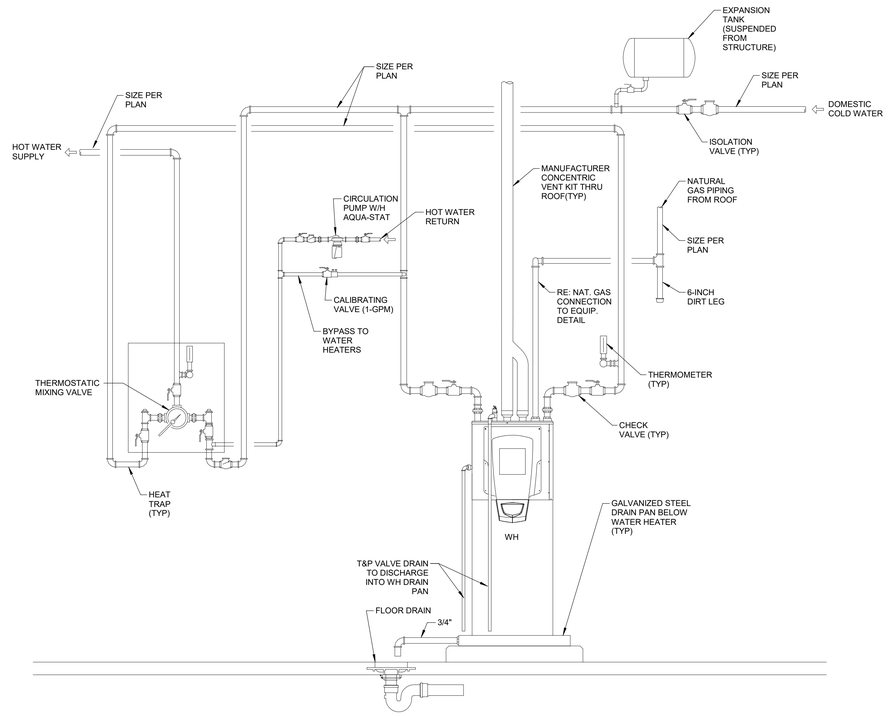

1 GAS-FIRED WATER HEATER WITH CIRCULATION LOOP DETAIL
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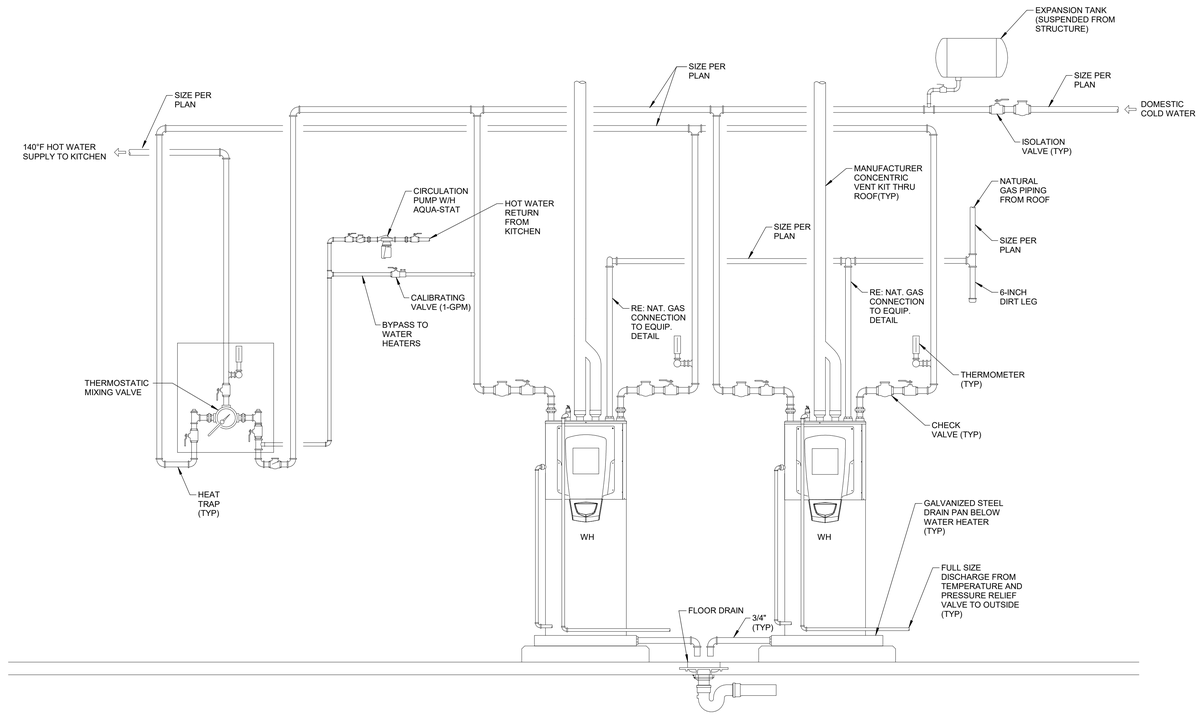

2 DUPLEX GAS-FIRED WATER HEATER WITH ONE CIRCULATION LOOP DETAIL
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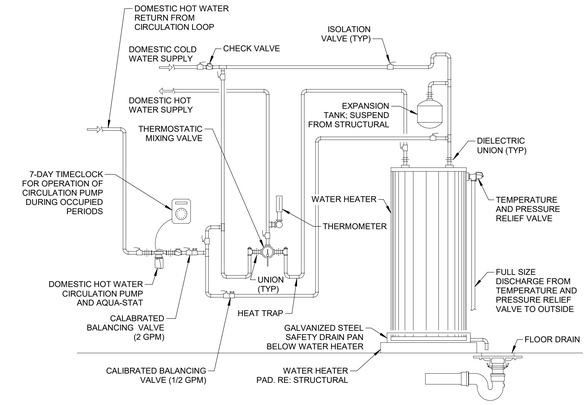

3 ELECTRIC WATER HEATER WITH CIRCULATION LOOP DETAIL
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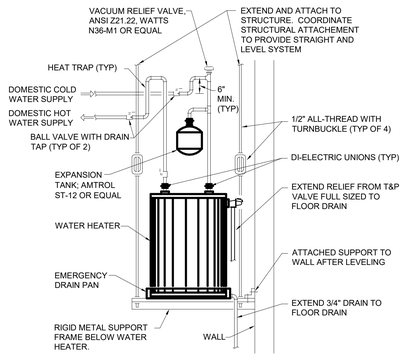

4 SUSPENDED ELECTRIC WATER HEATER DETAIL
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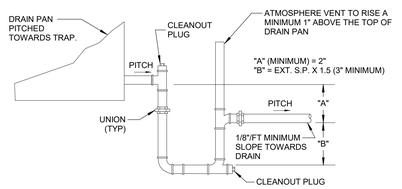

5 CONDENSATE TRAP DETAIL
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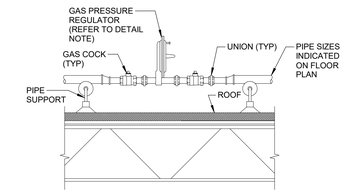
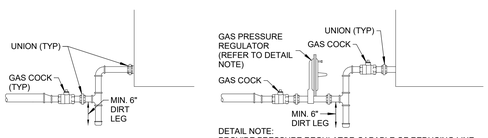


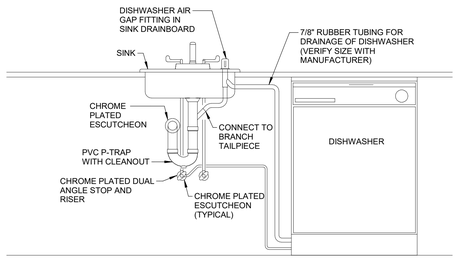
DETAIL NOTE:
PROVIDE PRESSURE REGULATOR CAPABLE OF REDUCING LINE PRESSURE OF 5 PSIG TO UNDER 2 PSIG

6 NATURAL GAS REGULATOR DETAIL
N.T.S.



DETAIL NOTE:
PROVIDE PRESSURE REGULATOR CAPABLE OF REDUCING LINE PRESSURE OF 2 PSIG TO GAS PRESSURE RECOMMENDED BY THE ROOFTOP MANUFACTURER

7 NATURAL GAS CONNECTIONS DETAIL
N.T.S.



8 DOMESTIC DISHWASHER CONNECTIONS DETAIL
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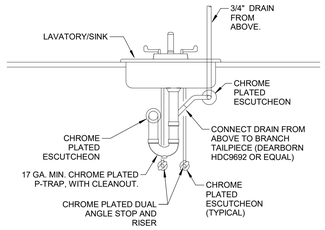

9 CONDENSATE BRANCH TAILPIECE AT LAV/SINK DETAIL
N.T.S.

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FIRE PROTECTION GENERAL NOTES

1. PRIOR TO SUBMITTING A BID, THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXACT LOCATIONS OF UTILITIES IN FIELD, ALL EXISTING BUILDING CONDITIONS AND THAT NO WORK WILL BE REQUIRED OUTSIDE OF THE AREAS OF WORK SHOWN ON THE DRAWINGS.

2. THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND VERIFYING A CURRENT WATER FLOW TEST AND PRESSURE DATA, THE DESIGN OF SHOP DRAWINGS AND, IF REQUIRED, PERFORMING HYDRAULIC CALCULATIONS. CONTRACTOR SHALL PROVIDE ALL WORK CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED FOR ON THE PLANS. PROVIDE ALL NECESSARY INFORMATION REGARDING THE EXISTING FIRE PROTECTION SYSTEM ON THE PLANS TO MAKE ALL CONDITIONS CLEAR. THE INSTALLATION AND DESIGN SHALL COMPLY WITH NFPA 13, LATEST EDITION AND ALL OTHER CITY, COUNTY AND STATE REGULATIONS.

3. THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS (WHICH SHALL INDICATE DESIGN CRITERIA USED TO ESTABLISH DESIGN DENSITIES I.E. OCCUPANCY USE, OCCUPANCY CLASSIFICATION, TYPE OF COMMODITY, COMMODITY CLASSIFICATION, STORAGE CONFIGURATION, MAXIMUM AVAILABLE HEIGHT FOR STORAGE, AND APPROPRIATE CODE REFERENCES), MANUFACTURER'S SPECIFICATIONS AND HYDRAULIC CALCULATIONS, IF REQUIRED, TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW, APPROVAL AND PERMITTING PRIOR TO INSTALLATION OR MODIFICATION OF THE AUTOMATIC SPRINKLER SYSTEM. ALL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE FIRE PROTECTION SYSTEM CONTRACTOR'S REGISTERED FIRE PROTECTION ENGINEER. THE ARCHITECT SHALL RECEIVE TWO COPIES OF THE SHOP DRAWINGS, MANUFACTURER'S SPECIFICATIONS AND REQUIRED HYDRAULIC CALCULATIONS FOR THEIR RECORDS.

4. THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL VERIFY INSTALLATIONS AND OBSTRUCTIONS OF ALL TRADES AND SHALL COORDINATE ALL FIRE PROTECTION WORK WITH OTHER TRADES, NEW AND EXISTING, AND ROUTE PIPING TO AVOID INTERFERENCES.

5. THE FIRE PROTECTION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND INSPECTIONS REQUIRED TO PERFORM THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.

6. THE FIRE PROTECTION SYSTEM CONTRACTOR, PER NFPA 13, LATEST EDITION, SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS, COMPLETE THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES, AND FORWARD THE CERTIFICATES TO THE AUTHORITY HAVING JURISDICTION PRIOR TO ASKING FOR APPROVAL OF THE INSTALLATION.

7. THE FIRE PROTECTION SYSTEM CONTRACTOR, AFTER EXAMINATION OF ALL EXISTING CONDITIONS, PLANS AND SPECIFICATIONS, SHALL INCLUDE ALL COSTS NECESSARY FOR ALTERATION, MODIFICATIONS, AND/OR ADDITIONS TO THE FIRE SPRINKLER SYSTEM NECESSARY TO MAKE THE COMPLETE AND FINISHED INSTALLATION IN ALL ASPECTS. IT IS THE INTENT THAT ALL COSTS FOR THE WORK REQUIRED BE IN THE BID OF THIS TRADE.

8. ALL MATERIAL (SPRINKLER HEADS, PIPING, FITTINGS, ETC.) SHALL BE IN CONFORMANCE WITH NFPA 13, LATEST EDITION, AND ALL OTHER APPLICABLE CODES.

9. ALL SHUTDOWNS OF THE EXISTING FIRE SPRINKLER SYSTEM TO PERFORM THE WORK UNDER THIS CONTRACT SHALL BE COORDINATED WITH THE BUILDING OWNER/ENGINEERING DEPARTMENT TO MINIMIZE OR AVOID INCONVENIENCE TO THE BUILDING TENANTS.

10. THE SPRINKLER HEADS SHOWN ON THE DRAWING ARE FOR REFERENCE ONLY. MORE HEADS MAY BE NECESSARY FOR THE DESIGN TO COMPLY WITH ALL CODES AND STANDARDS. ALL SPRINKLER HEADS SHALL BE CENTERED IN BOTH DIRECTIONS OF THE ACOUSTICAL TILE. PROVIDE ARMOVERS OR SWING JOINTS AS REQUIRED.

11. THE METHODS OF HANGING PIPE, HEADERS AND BRANCHES SHALL BE APPROVED BY NFPA 13, LATEST EDITION. ALL PIPING SHALL BE FIRMLY ANCHORED AND SUPPORTED TO PREVENT SWAY AND VIBRATION THE ENTIRE LENGTH. PROVIDE DETAIL AND INDICATE TYPE OF HANGER TO BE INSTALLED FOR THE FIRE PROTECTION SYSTEM PIPING.

12. PROVIDE FIRE RATED SLEEVES AND UL LISTED FIRESTOPPING AT ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, ROOFS, ETC. FLASH AND COUNTER FLASH ROOF PENETRATIONS.

13. INDICATE CENTER TO CENTER DIMENSIONS, PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING.

14. REFER TO AND COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND OTHER CEILING MOUNTED DEVICES. THE OWNER AND THE ARCHITECT RESERVE THE RIGHT TO MODIFY HEAD LOCATIONS TO CREATE AN AESTHETIC DESIGN.

15. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, IN MECHANICAL ROOMS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED.

16. COORDINATE LOCATION OF ANY NEW OR RELOCATED SIAMESE CONNECTIONS WITH ARCHITECT, SITE LAYOUT, AND FIRE DEPARTMENT. PROVIDE REMOTE SIAMESE CONNECTIONS AS REQUIRED FOR FIRE DEPARTMENT ACCESS FROM DRIVE.

17. LOCATION OF NEW OR RELOCATED INSPECTORS TEST STATIONS, ISOLATION VALVES AND DRAIN DOWN VALVES SHALL BE COORDINATED AS TO MINIMIZE PLACEMENT OF THESE DEVICES INSIDE TENANT SPACES. PROVIDE DRAIN DOWN VALVES FOR ANY AND ALL TRAPPED SECTION OF PIPING PER NFPA 13, LATEST EDITION. WHERE VALVES ARE REQUIRED IN TENANT SPACES, LOCATE IN A SERVICE OR STORAGE AREA. EACH SPRINKLER ZONE IS TO HAVE DRAIN DOWN VALVES CONFIGURED SO AS TO ALLOW ATTACHMENT OF A DRAIN HOSE. ALL DISCHARGE SHALL BE ARRANGED TO MINIMIZE DAMAGE TO THE BUILDING. ALL DRAIN PIPING SHALL BE GALVANIZED. PROVIDE ACCESS PANELS TO ANY VALVES ABOVE NON-ACCESSIBLE CEILING AND IN CHASES. ALL DRAIN DOWN VALVES AND INSPECTOR'S TEST STATION VALVES SHALL BE CHAINED AND PADLOCKED.

18. ALL ISOLATION VALVES SHALL BE SUPERVISED. PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES. COORDINATE WITH FIRE ALARM CONTRACTOR.

19. SPRINKLER HEADS MOUNTED LESS THAN 7 FEET ABOVE FINISHED FLOOR SHALL BE PROTECTED WITH A WIRE CAGE TYPE GUARD.

20. SPRINKLER CONTRACTOR SHALL INSTALL AND ACTIVATE THE ENTIRE SPRINKLER SYSTEM PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

21. ALL FIRE PROTECTION SYSTEMS SHALL BE TESTED AS REQUIRED PER NFPA 13, LATEST EDITION AND LOCAL AUTHORITY HAVING JURISDICTION BEFORE ANY SYSTEMS ARE CONCEALED.

22. CONTRACTOR SHALL CONDUCT HYDROSTATIC TESTS IN COMPLIANCE WITH NFPA 13, LATEST EDITION (TWO HOUR AT 200 PSI OR 100 PSI OVER NORMAL SYSTEM PRESSURE MINIMUM). PIPING SUBJECT TO FREEZING DURING TEST PERIOD SHALL BE TESTED WITH COMPRESSED AIR.

23. CERTIFICATES OF APPROVAL OF INSTALLATION SHALL BE OBTAINED FROM THE AUTHORITY HAVING JURISDICTION AND FORWARDED TO THE OWNER.

24. THE FINAL INSPECTION AND APPROVAL OF THE FIRE PROTECTION SYSTEM SHALL BE BY THE LOCAL FIRE MARSHAL.

25. AFTER TESTS ARE CONDUCTED AND ANY REPAIRS COMPLETED, COMPLETELY FLUSH THE PIPING SYSTEMS WITH WATER UNTIL DISCHARGE SHOWS NO DISCOLORATION.

26. ALL BRANCH PIPING CONNECTIONS SHALL BE MADE AT THE TOP OR SIDE OF THE MAIN. BOTTOM CONNECTIONS ARE NOT ACCEPTABLE.

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FIRE PROTECTION GENERAL NOTES

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FIRE SPRINKLER GENERAL NOTES

1. ALL AREAS TO BE CONSIDERED A LIGHT HAZARD WET PIPE OCCUPANCY UNLESS OTHERWISE NOTED ON PLANS

2. PROVIDE THE FOLLOWING HEAD TYPES FOR EACH CEILING TYPE UNLESS OTHERWISE NOTED ON PLANS;

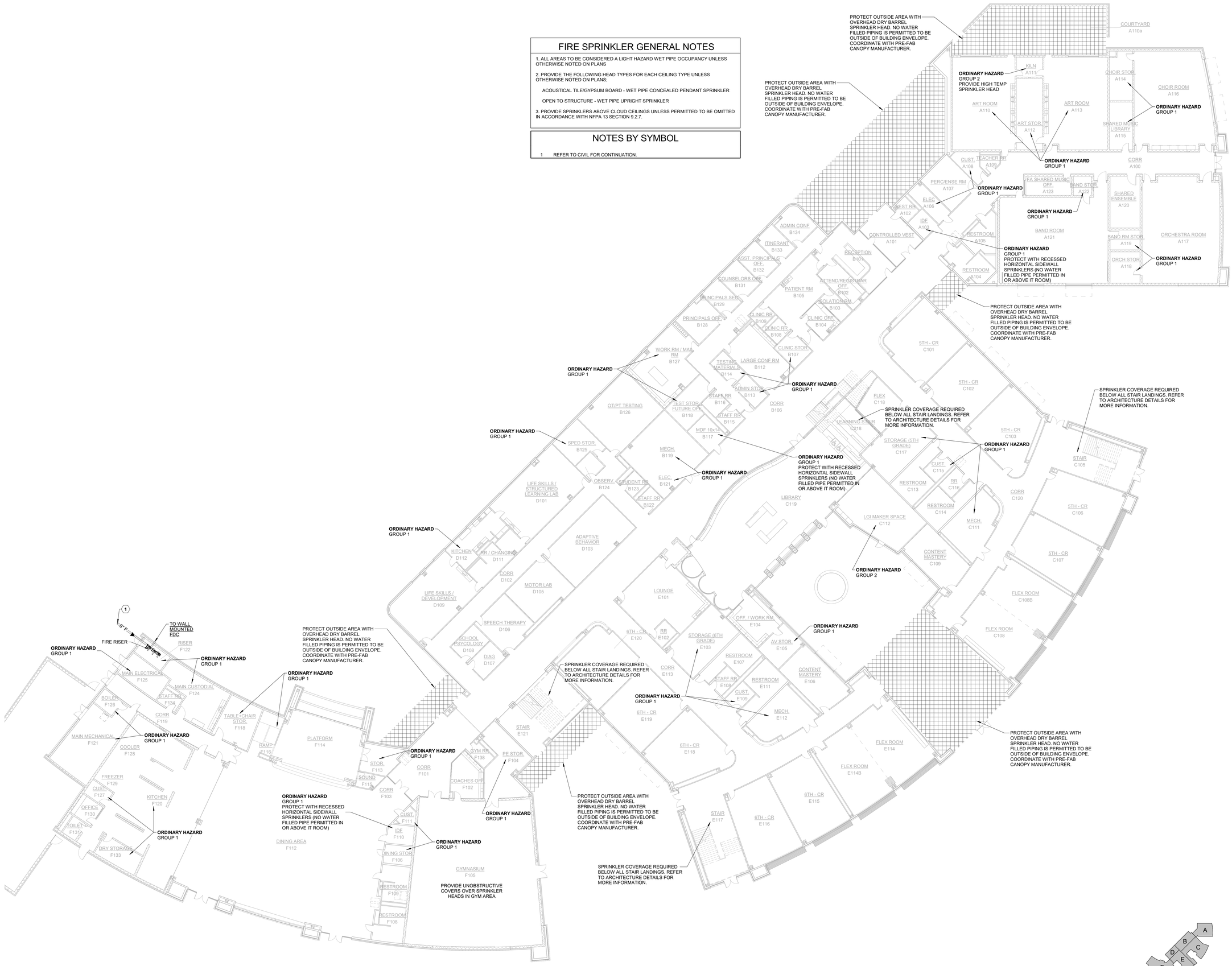
   ACOUSTICAL TILE/GYPSUM BOARD - WET PIPE CONCEALED PENDANT SPRINKLER

   OPEN TO STRUCTURE - WET PIPE UPRIGHT SPRINKLER

3. PROVIDE SPRINKLERS ABOVE CLOUD CEILINGS UNLESS PERMITTED TO BE OMITTED IN ACCORDANCE WITH NFPA 13 SECTION 9.2.7.

NOTES BY SYMBOL

1 REFER TO CIVIL FOR CONTINUATION.



1 FIRE PROTECTION PLAN - LEVEL 01
1/16" = 1'-0"

KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

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FIRE PROTECTION PLAN - LEVEL 01

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2. PROVIDE THE FOLLOWING HEAD TYPES FOR EACH CEILING TYPE UNLESS OTHERWISE NOTED ON PLANS;

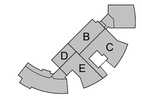
   ACOUSTICAL TILE/GYPSUM BOARD - WET PIPE CONCEALED PENDANT SPRINKLER

   OPEN TO STRUCTURE - WET PIPE UPRIGHT SPRINKLER

3. PROVIDE SPRINKLERS ABOVE CLOUD CEILINGS UNLESS PERMITTED TO BE OMITTED IN ACCORDANCE WITH NFPA 13 SECTION 9.2.7.



1 FIRE PROTECTION PLAN - LEVEL 02
1/16" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N

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FIRE PROTECTION PLAN - LEVEL 02

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GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.

2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCES SHALL BE PART OF THE ORIGINAL CONTRACT BID.

3. CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILINGS AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY CONFLICTS.

4. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTOR'S FAILURE TO FIELD COORDINATE.

5. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.

6. LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE.

7. PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.

8. COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED MECHANICAL EQUIPMENT WITH THE ELECTRICAL SUB-CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL EQUIPMENT, DEVICES, WIRING, OR CONDUIT.

9. PROVIDE GENERAL CONTROL WIRING, THERMOSTATS, MOTORIZED DAMPERS AND CONDUIT ASSOCIATED WITH HVAC EQUIPMENT. COORDINATE THE LOCATION OF ALL THERMOSTATS, ROOM SENSORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH PROTECTIVE LOCKING COVER, CENTERED AT 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARD (TAS).

10. ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE NET INSIDE CLEAR DIMENSIONS. FOR RECTANGULAR DUCT, THE FIRST FIGURE OF THE DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION. ROUND DUCT OF EQUAL NET INSIDE CLEAR AREA MAY BE USED IN LIEU OF RECTANGULAR DUCT.

11. PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY, OUTDOOR AIR, EXHAUST AND RETURN DUCTWORK INCLUDING THE TOP AND BOTTOM OF VERTICAL DUCTS.

12. PROVIDE A LOCKING QUADRANT VOLUME DAMPER AT THE TAP OF EACH RUN-OUT TO DIFFUSERS FOR BALANCING PURPOSES, UNLESS OTHERWISE INDICATED. THE RUN-OUT DUCT SIZE IS THE SAME SIZE AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS OTHERWISE INDICATED.

13. CEILING SPACE IS NEEDED AS A RETURN AIR PLENUM IN CERTAIN AREAS. FOLLOW ALL APPLICABLE CODES AS TO MATERIALS ALLOWED FOR USE IN AIR PLENUMS. COORDINATE ALL WORK TO PROVIDE FREE RETURN OF AIR FROM ALL LOCATIONS.

14. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS AND/OR COMBINATION FIRE/SMOKE DAMPERS IN DUCTWORK AT ALL LOCATIONS WHERE DUCTS PASS THROUGH FIRE RATED ASSEMBLY. MECHANICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING FIRE AND FIRE/SMOKE DAMPERS. COORDINATE CONSTRUCTION REQUIREMENTS AND PROVISIONS FOR CONNECTIONS TO FIRE ALARM SYSTEM.

15. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCTWORK ON VAV SYSTEMS FROM AHU TO TERMINAL UNIT SHALL BE CONSTRUCTED TO 6" W.G. AND SEALED TO SMACNA CLASS A. DUCTWORK DOWN STREAM OF TERMINAL UNITS SHALL BE CONSTRUCTED TO 1" W.G. AND SEALED TO SMACNA CLASS A. ALL DUCTWORK ASSOCIATED WITH CONSTANT VOLUME SYSTEMS SHALL BE CONSTRUCTED TO 2" W.G. AND SEALED TO SMACNA CLASS A. SEAL ALL SEAMS WITH MASTIC SEALANT UL 181 LISTED FOR THE APPLICATION USED. SEALANT SHALL BE DESIGNED FOR USE ON METAL DUCT AND FLEXIBLE DUCT.

16. SUPPLY AND RETURN DUCTWORK LOCATED OUTSIDE, EXPOSED TO AMBIENT CONDITIONS SHALL BE DOUBLE-WALL CONSTRUCTION, WELDED, AND INTERNALLY LINED WITH 2" DUCT LINER. BREAK SHEET METAL IN A MANNER TO PREVENT STANDING WATER ON ANY HORIZONTAL DUCT SURFACES AND TO AVOID ANY RUNOFF INTO BUILDING AT DUCT ENTRY POINTS.

17. ALL RECTANGULAR AND ROUND SUPPLY AND RETURN DUCTWORK LOCATED IN EXPOSED INTERIOR AREAS SHALL BE INTERNALLY LINED WITH DUCT LINER AND EXTERNALLY PAINTED. REFER TO ARCHITECT FOR COLOR SELECTION.

18. INSTALL DX PIPING AS SPECIFIED, INCLUDING FILTER/DRYER, SIGHT GLASS, ISOLATION/CHARGING VALVES AND ALL APPURTENANCES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL BE ACCOMPLISHED IN A NEAT AND ORDERLY FASHION, AS APPROVED BY THE ENGINEER. COORDINATE FOR ROUTING OF DX PIPING, WITHIN INSIDE OF WALLS, ETC. AS REQUIRED, TERMINATING AT AHU'S. PROVIDE BRACING/ISOLATION, AS REQUIRED TO PREVENT VIBRATION OF DX PIPING INSIDE WALLS, ETC. SIZE, ROUTE AND INSULATE DX PIPING PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION REQUIREMENTS.

19. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

20. SOME DUCTS SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.

21. SEAL ALL DUCT PENETRATIONS THROUGH FIRE AND/OR SMOKE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.

22. REFER TO SPECIFICATION 23 0553 FOR MECHANICAL IDENTIFICATION REQUIREMENTS.

23. EXPAND OR REDUCE DUCTS AT EQUIPMENT CONNECTIONS BASED ON THE EQUIPMENT PURCHASED, WITH TRANSITIONS NOT TO EXCEED 30 DEGREES. SIZES SHOWN ON SCHEDULES, ETC. ARE FOR GUIDANCE ONLY. ASPECT RATIO SHALL BE NO GREATER THAN 4:1, PER SMACNA'S GUIDELINES.

24. ALL DUCTS WITH A DIMENSION GREATER THAN 12" PASSING THRU A NON-RATED WALL SHALL HAVE THE OPENING FRAMED IN WITH METAL STUDS. COORDINATE OPENING SIZE AND LOCATION WITH OTHER TRADES.

25. WHERE DAMPERS ARE LOCATED ABOVE HARD CEILINGS PROVIDE CONCEALED YOUNG REGULATORS. REGULATORS SHALL NOT BE LOCATED IN CORRIDORS, PATIENT CARE, OR TREATMENT AREAS. EACH REGULATOR SHALL BE LABELED PER THE SPECIFICATIONS.

26. TEST AND BALANCE SHALL BE PERFORMED BY AN AABC LICENSED FIRM IN THE TESTING, ADJUSTING, AND BALANCING (TAB) BUSINESS FOR A MINIMUM OF 10 YEARS. AABC FIRM SHALL SUBMIT A REPORT TO THE ENGINEER OF RECORD INDICATING EQUIPMENT NAMEPLATE DATA, DESIGN PERFORMANCE, INITIAL TESTED PERFORMANCE, AND FINAL ADJUSTED PERFORMANCE. REPORT SHALL BE SUBMITTED IN A TIMELY FASHION PRIOR TO JOB CLOSE-OUT. TAB SHALL BE PERFORMED ON ALL NEW SYSTEMS SPECIFIED AND ON ALL EXISTING SYSTEMS MODIFIED AS PART OF THIS CONTRACT. TAB FIRM SHALL PERFORM A FUNCTIONAL PERFORMANCE TEST OF THE SYSTEM BASED ON THE CONTRACT DOCUMENTS HEREIN AND SHALL RELAY ALL DISCREPANCIES AND OUTSTANDING CONSTRUCTION ITEMS RELATING TO THE MECHANICAL EQUIPMENT AND PERFORMANCE TO THE ENGINEER OF RECORD.

BASIS OF MECHANICAL DESIGN

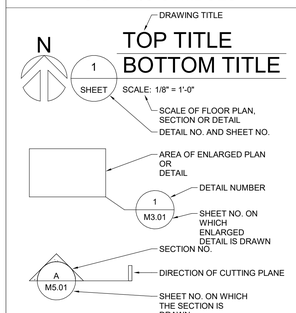
PRIMARY MECHANICAL CODES:
MECHANICAL: 2021 INTERNATIONAL MECHANICAL CODE
ENERGY: 2021 INTERNATIONAL ENERGY CONSERVATION CODE

PROJECT DESIGN VALUES:

OUTDOOR DESIGN TEMPERATURES (SUMMER):	99ºF (DRYBULB), 77ºF (WETBULB)
AMBIENT TEMPERATURE AT OUTDOOR UNITS:	105ºF (DRYBULB, SUMMER)
OUTDOOR DESIGN TEMPERATURE (WINTER):	31F (DRYBULB)
INDOOR DESIGN TEMPERATURE (SUMMER):	75ºF (DRYBULB), 50% (RELATIVE HUMIDITY)
INDOOR DESIGN TEMPERATURE (WINTER):	70ºF (DRYBULB)
OUTSIDE AIR REQUIREMENTS:	PER 2021 IMC TABLE 403.3.1.1

MECHANICAL SYMBOL LEGEND

GRAPHIC SYMBOLS



MISCELLANEOUS SYMBOLS

XXX-1	EQUIPMENT DESIGNATION
	SINGLE LINE PIPE/DUCTWORK BREAK
	DOUBLE LINE PIPE/ROUND DUCTWORK BREAK
	RECTANGULAR DUCT/STANDARD BREAK
1	KEYED NOTE
1	REVISION DELTA
	POINT OF DISCONNECTION
	POINT OF CONNECTION (NEW TO EXISTING)
	NEW ITEMS (PIPING/DUCTWORK/EQUIPMENT)
	EXISTING ITEMS TO REMAIN
	EXISTING ITEMS TO BE DEMOLISHED
	LIMIT OF EXISTING ITEMS TO BE REMOVED
	NEW CONNECTION TO EXISTING ITEM
(N)	NEW ITEM (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(E)	EXISTING ITEM TO REMAIN (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(F)	FUTURE ITEM (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(R)	EXISTING ITEM TO BE RELOCATED (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)
(D)	EXISTING ITEM TO BE DEMOLISHED (NOTATION SHOWN AS NECESSARY FOR CLARIFICATION)

CONTROL SYMBOLS

WALL MOUNTED DEVICES

T	TEMPERATURE SENSOR/THERMOSTAT
H	HUMIDITY SENSOR/HUMIDISTAT
S	COMBINATION CO2, HUMIDITY, AND TEMPERATURE SENSOR
R	OVERRIDE SWITCH
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
VFD	VARIABLE FREQUENCY DRIVE

EQUIPMENT SYMBOLS

	ROOFTOP EXHAUST FAN (ROOF PLAN VIEW)
	ROOFTOP EXHAUST FAN (ROOF PLAN VIEW)
	INLINE EXHAUST FAN (EF), AIR HANDLING UNIT (AHU), CONDENSING UNIT (CU)
	WALL LOUVER WITH POSITIVE OR NEGATIVE AIRFLOW
UC	DOOR UNDERCUT (SPECIFY CFM IF REQUIRED)
LD	DOOR LOUVER (SPECIFY CFM IF REQUIRED)

DUCTWORK SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
AxB	AxB	RECTANGULAR OR SQUARE DUCT, DIMENSIONS ARE IN INCHES, MIN. INSIDE CLEAR, A = WIDTH, B= HEIGHT
A"Ø	A"Ø	ROUND DUCT DIMENSIONS ARE IN INCHES, MIN. INSIDE CLEAR, A = DIAMETER
AxBØ	AxBØ	FLAT OVAL DUCT DIMENSIONS ARE IN INCHES, MIN. INSIDE CLEAR, A = WIDTH, B= HEIGHT
R D	R D	DUCTWORK RISE (R) OR DROP (D) RELATIVE TO DIRECTION OF AIRFLOW
		DIRECTION OF AIR FLOW
		SUPPLY AIR OR POSITIVE PRESSURE DUCTWORK, SECTION TOWARDS/AWAY VIEWER
		SUPPLY AIR OR POSITIVE PRESSURE DUCTWORK, AIRFLOW AWAY FROM VIEWER
		RETURN AIR OR NEGATIVE PRESSURE DUCTWORK, AIRFLOW TOWARDS VIEWER
		RETURN AIR OR NEGATIVE PRESSURE DUCTWORK, AIRFLOW AWAY FROM VIEWER
		EXHAUST AIR DUCTWORK, AIRFLOW TOWARDS VIEWER
		EXHAUST AIR DUCTWORK, AIRFLOW AWAY FROM VIEWER
		RIGID ROUND DUCTWORK, AIRFLOW TOWARDS VIEWER
		RIGID ROUND DUCTWORK, AIRFLOW AWAY FROM VIEWER
		TRANSITION - ECCENTRIC REDUCER
		TRANSITION - CONCENTRIC REDUCER
		TRANSITION - SQUARE TO ROUND
		90° ELBOW WITH TURNING VANES (REQUIRED ON SUPPLY DUCTWORK)
		90° ELBOW WITHOUT TURNING VANES (RETURN OR EXHAUST DUCTWORK ONLY)
		45° ELBOW WITH TURNING VANES (REQUIRED ON SUPPLY DUCTWORK)
		45° ELBOW WITHOUT TURNING VANES (RETURN OR EXHAUST DUCTWORK ONLY)
W R		RADIUS 90° ELBOW (R = 1.5W)
W R		RADIUS 45° ELBOW (R = 1.5W)
A"Ø	A"Ø	SPIN-IN FITTING WITH FLEXIBLE DUCTWORK, DIMENSIONS ARE IN INCHES, MIN. INSIDE CLEAR, A = DIAMETER
		BRANCH TAKE-OFF WITH MVD
		CONICAL TAKE-OFF WITH MVD
		MANUAL VOLUME DAMPER
FD	FD	FIRE DAMPER
FSD	FSD	FIRE/SMOKE DAMPER
SD	SD	SMOKE DAMPER
BDD	BDD	BACKDRAFT DAMPER
M	M	MOTORIZED DAMPER
B	B	BAROMETRIC DAMPER
S	S	SMOKE DETECTOR

DUCTWORK SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
SP	SP	STATIC PRESSURE SENSOR
T	T	TEMPERATURE SENSOR
H	H	HUMIDITY SENSOR
CO2	CO2	CARBON DIOXIDE SENSOR
DP	DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DPS	DIFFERENTIAL PRESSURE SAFETY SHUT-DOWN RELAY
AF	AF	AIRFLOW PROOF SWITCH
		ACCESS PANEL/CLEANOUT

AIR DISTRIBUTION

REFER TO SCHEDULE FOR ADDITIONAL INFORMATION

	SUPPLY AIR DIFFUSER
	RETURN AIR OR TRANSFER AIR GRILLE
	EXHAUST AIR GRILLE
	ROUND SUPPLY AIR DIFFUSER
	LINEAR SLOT DIFFUSER
CRD	CEILING RADIATION DAMPER
	SIDEWALL REGISTER
	DUCT MOUNTED GRILLE
S1 8"Ø 250 TYP OF 2	AIR DISTRIBUTION CALLOUT

THIS IS A STANDARD LEGEND SHEET. SOME INFORMATION ON THIS SHEET MAY NOT NECESSARILY APPLY TO THIS PROJECT.

PIPE & FITTING SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		PIPE
		DIRECTION OF FLOW / SLOPE
		PIPING WITH INSULATION (WHEN SHOWN FOR CLARITY)
		WELDED JOINT
		SCREWED JOINT
		FLANGED JOINT
		UNION
		GROOVED END JOINT
		GENERIC FLEXIBLE COUPLING (REFER TO SPECIFICATIONS)
		FLANGED COUPLING ADAPTER
		STUB END OR FLANGE ADAPTER W/ FLANGE RING
		BLIND FLANGE
		ELBOW, 45 DEGREE (LONG RADIUS UON)
		ELBOW, 90 DEGREE (LONG RADIUS UON)
		ELBOW, 90 DEGREE - CHANGE IN DIRECTION TOWARD VIEWER
		ELBOW, 90 DEGREE - CHANGE IN DIRECTION AWAY FROM VIEWER
		TEE FITTING
		TEE FITTING, BRANCH TOWARD VIEWER
		LATERAL
		REDUCER - CONCENTRIC
		REDUCER - ECCENTRIC
		CAP
		ANCHOR
CO	CO	CLEANOUT
		THERMOWELL WITH THERMOMETER
		PRESSURE GAUGE WITH GAUGE COCK
		STRAINER - "Y" TYPE WITH BLOW DOWN
S	S	AIR SEPARATOR
M	M	WATER METER
		VENTURI FLOW METER
		FLOW ORIFICE PLATE
F&T	F&T	STEAM TRAP, TYPE AS NOTED IB = INVERTED BUCKET F&T = FLOAT & THERMOSTATIC TH = THERMODYNAMIC BP = BALANCED PRESSURE PUMP, ARROW INDICATES FLOW

NOTE:
WELDED FITTINGS ARE SHOWN FOR DOUBLE LINE PIPING. FITTINGS WITH OTHER END CONDITIONS ARE SIMILAR.

ABBREVIATIONS

A (0.5)	COMPRESSED AIR (WORKING PRESS.)	FCU	FAN COIL UNIT	POS	POSITIVE
AAV	AUTOMATIC AIR VENT	FD	FLOOR DRAIN	PR	PUMPED RETURN
ABV	ABOVE	°F	FAHRENHEIT [DEGREES]	PQ	PRESSURE GAUGE
AC	ALTERNATING CURRENT	FLA	FULL LOAD AMPS	PH	PHASE
A/C	AIR CONDITIONING	FLG	FLANGE	PHC	PREHEAT COIL
ACU	AIR CONDITIONING UNIT	FMS	FACILITY MANAGEMENT SYSTEM	PRV	PRESSURE REDUCING VALVE
AD	ACCESS DOOR, AREA DRAIN	FOB	FLAT ON BOTTOM	PPM	PARTS PER MILLION
AFF	ABOVE FINISHED FLOOR	FOT	FLAT ON TOP	PLBG	PLUMBING
AHU	AIR HANDLING UNIT	FPB	FAN POWERED BOX	PRESS	PRESSURE
AI	ANALOG INPUT	FPI	FINS PER INCH	PS	PRESSURE SWITCH
ALT	ALTITUDE	FPM	FEET PER MINUTE	PSF	POUNDS PER SQUARE FOOT
AMB	AMBIENT	FPS	FEET PER SECOND	PSI	POUNDS PER SQUARE INCH
AMP	AMPERE	FRP	FIBERGLASS REINFORCED PLASTIC	PSIG	POUNDS PER SQUARE INCH GAUGE
AO	ANALOG OUTPUT	FT	FOOT, FEET	PTAC	PACKAGED TERMINAL A/C
AP	ACCESS PANEL	FT LB	FOOT-POUND		
APD	AIR PRESSURE DROP			Q	TOTAL, TOTAL HEAT
APPROX	APPROXIMATE	GA	GAUGE, GAGE	QT	QUART
AS	AIR SEPARATOR	GAL	GALLON	QTY	QUANTITY
ASC	ABOVE SUSPENDED CEILING	GALV	GALVANIZED		
AHJ	AUTHORITY HAVING JURISDICTION	GEN	GENERATOR	R	RELIEF, THERMAL RESISTANCE
AVG	AVERAGE	GPD	GALLONS PER DAY	RA	RETURN AIR
AWG	AMERICAN WIRE GAUGE	GPH	GALLONS PER HOUR	RAC	ROOM AIR CONDITIONER
		GPM	GALLONS PER MINUTE	RECT	RECTANGULAR
B&S	BELL & SPIGOT	GSW	GROUND SOURCE WATER (GEOTHERMAL)	REFR	REFRIGERATION
B/B	BACK TO BACK	GTV	GATE VALVE	RET	RETURN
BAL	BALANCE			RED	REDUCER
BBR	BASE BOARD RADIATOR	HC	HEATING COIL	REV	REVOLUTIONS
BFC	BELOW FINISHED CEILING	HD	HEAD	REF	REFERENCE
BFG	BELOW FINISHED GRADE	HG	HEAT GAIN	RH	RELATIVE HUMIDITY
BFV	BUTTERFLY VALVE	HGT	HEIGHT	RHC	REHEAT COIL
BFBP	BOILER FEED BOOSTER PUMP	HP	HEAT PUMP, HORSEPOWER	RHG	REFRIGERANT HOT GAS
BFW	BOILER FEED WATER	HPC	HIGH PRESSURE CONDENSATE	RHV	REHEAT VALVE
BLDG	BUILDING	HPS	HIGH PRESSURE STEAM (>100 PSI)	RL	REFRIGERANT LIQUID
BHP	BRAKE HORSEPOWER	HR	HOUR	RPM	REVOLUTIONS PER MINUTE
BLR	BOILER	HS	HUMIDITY SENSOR	RPS	REVOLUTIONS PER SECOND
BLW	BELOW	HSTAT	HUMIDISTAT	RS	REFRIGERANT SUCTION
BO	BLOWOFF	HVAC	HEATING, VENTILATION AND A/C	RTU	ROOF TOP UNIT
BOD	BOTTOM OF DUCT	HW	HEATING WATER	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	HWB	HEATING WATER BOILER		
BOS	BOTTOM OF STEEL	HWC	HEATING WATER COIL	S	SECOND
BTU	BRITISH THERMAL UNIT	HWCP	HEATING WATER CIRCULATING PUMP	SA	SUPPLY AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	HWP	HEATING WATER PUMP	SAT	SATURATION
BV	BALL VALVE	HWR	HEATING WATER RETURN	SC	SHADING COEFFICIENT
BYP	BYPASS	HWS	HEATING WATER SUPPLY	SEER	SEASONAL EER
		HWT	HEATING WATER TANK	SF	SQUARE FEET
°C	CELSIUS [DEGREES]	HZ	HERTZ (FREQUENCY)	SG	SPECIFIC GRAVITY, STEAM GAUGE
C/C	COOLING COIL			SH	SENSIBLE HEAT
CAP	CAPACITY	I/O	INPUT/OUTPUT	SHG	SENSIBLE HEAT GAIN
CD	CONDENSATE DRAIN	ID	INSIDE DIAMETER	SHGC	SOLAR HEAT GAIN COEFFICIENT
CF	CHEMICAL FEED	IE	INVERT ELEVATION	SHR	SENSIBLE HEAT RATIO
CFM	CUBIC FEET PER MINUTE	IN WC	INCHES WATER COLUMN	SOLV	SOLENOID VALVE
CFS	CUBIC FEET PER SECOND	INV	INVERT	SOV	SHUT OFF VALVE
CH	CHILLER	IOM	INSTALLATION, OPERATION, AND MAINTENANCE	SP	STATIC PRESSURE, SUMP PUMP
CHW	CHILLED WATER			SPEC	SPECIFICATION
CHWP	CHILLED WATER PUMP	IP	IRON PIPE	SPLY	SUPPLY
CHWPP	CHILLED WATER PRIMARY PUMP	IPS	IRON PIPE SIZE, INCHES PER SECOND	SPS	STATIC PRESSURE SENSOR
CHWR	CHILLED WATER RETURN	IPT	IRON PIPE THREADED	SQ	SQUARE
CHWS	CHILLED WATER SUPPLY	IR	INFRARED	SSP	STAINLESS STEEL PIPE
CHWSP	CHILLED WATER SECONDARY PUMP	IW	INDIRECT WASTE	SST	STAINLESS STEEL
CI	CAST IRON			STD	STANDARD
CIP	CAST IRON PIPE	K	KELVIN, THERMAL CONDUCTIVITY	STM	STEAM
CKT	CIRCUIT	KIP	THOUSAND POUNDS	STR	STRAINER
CKV	CHECK VALVE	KIP FT	THOUSAND FOOT-POUNDS	STWP	STEAM WORKING PRESSURE
CL	CENTER LINE (℄)	KW	KILOWATT	SUCT	SUCTION
CONN	CONNECTION	KWh	KILOWATT HOUR	SUP	SUPPLY
CPD	CONDENSATE PUMP DISCHARGE			SV	SAFETY VALVE
CRAC	COMPUTER ROOM A/C UNIT	LAT	LEAVING AIR TEMPERATURE		
CRP	CONDENSATE RETURN PUMP	LB	POUNDS	T	TEMPERATURE SENSOR
CT	COOLING TOWER	LDBT	LEAVING DRY BULB TEMPERATURE	T&P	TEMPERATURE AND PRESSURE
CU	CONDENSING UNIT	LF	LINEAR FEET	TCV	TEMPERATURE CONTROL VALVE
CU FT	CUBIC FEET	LG	LENGTH	TD	TEMPERATURE DIFFERENCE
CU IN	CUBIC INCH	LH	LATENT HEAT	TEMP	TEMPERATURE
CUH	CABINET UNIT HEATER	LHG	LATENT HEAT GAIN	TOP	TOP OF PIPE
Cv	COEFFICIENT - VALVE FLOW	LP	LOW PRESSURE	TRANS	TRANSFER
CW	COLD WATER (POTABLE)	LPC	LOW PRESSURE CONDENSATE	TSTAT	THERMOSTAT
CWP	CONDENSER WATER PUMP	LPS	LOW PRESSURE STEAM (<15 PSI)		
CWR	CONDENSER WATER RETURN	LRA	LOCKED ROTOR AMPS	U	HEAT TRANSFER COEFFICIENT
CWS	CONDENSER WATER SUPPLY	LT	LEAVING TEMPERATURE	U/G	UNDERGROUND
		LTHW	LOW TEMPERATURE HOT WATER	UH	UNIT HEATER
D	DRAIN	LWBT	LEAVING WET BULB TEMPERATURE	UON	UNLESS OTHERWISE NOTED
DB	DRY BULB	LWT	LEAVING WATER TEMPERATURE		
DBT	DRY BULB TEMPERATURE			V	VOLTS
dB	DECIBEL	mA	MILLIAMPERES	VAC	VOLTS ALTERNATING CURRENT
DC	DIRECT CURRENT	MAX	MAXIMUM	VAR	VARIABLE
DDC	DIRECT DIGITAL CONTROL	MCA	MINIMUM CIRCUIT AMPACITY	VAV	VARIABLE AIR VOLUME
DEG	DEGREES [CELSIUS OR FAHRENHEIT]	MCC	MOTOR CONTROL CENTER	VDC	VOLTS DIRECT CURRENT
DENS	DENSITY	MIN	MINIMUM	VEL	VELOCITY
DEWPT	DEW POINT TEMPERATURE	MOCP	MAXIMUM OVERCURRENT PROTECTION	VENT	VENT, VENTILATION
DIA	DIAMETER	MOV	MOTOR OPERATED VALVE	VERT	VERTICAL
DIP	DUCTILE IRON PIPE	MP	MEDIUM PRESSURE	VFD	VARIABLE FREQUENCY DRIVE
DOV	DRAIN OFF VALVE	MPC	MEDIUM PRESSURE CONDENSATE	VP	VELOCITY PRESSURE
DPS	DIFFERENTIAL PRESSURE SENSOR	MPS	MEDIUM PRESSURE STEAM (16-99 PSI)	VRF	VARIABLE REFRIGERANT FLOW
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	MPT	MALE PIPE THREAD	VSD	VARIABLE SPEED DRIVE
DS	DISCONNECT SWITCH	MU	MAKE-UP WATER		
DWV	DRAIN, WASTE & VENT	MVD	MANUAL VOLUME DAMPER	W	WATT
				WB	WET BULB
EA	EXHAUST AIR	NA	NOT APPLICABLE	WBT	WET BULB TEMPERATURE
E/P	ELECTRIC PNEUMATIC	NC	NOISE CRITERIA, NORMALLY CLOSED	WC	WATER COLUMN
EAT	ENTERING AIR TEMPERATURE	NIC	NOT IN CONTRACT	WG	WATER GAGE
ECON	ECONOMIZER	NO	NORMALLY OPEN, NUMBER	WH	WATER HEATER
ECU	EVAPORATIVE COOLING UNIT	NPS	NOMINAL PIPE SIZE	WL	WATER LINE
EDBT	ENTERING DRY BULB TEMPERATURE	NR	NOISE REDUCTION	WLD	WELDED
EDH	ELECTRIC DUCT HEATER	NRC	NOISE REDUCTION COEFFICIENT	WM	WATER METER
EER	ENERGY EFFICIENCY RATIO	NTS	NOT TO SCALE	WNF	WELD NECK FLANGE
EF	EXHUAST FAN			WP	WATER PUMP
EFF	EFFICIENCY	OA	OUTSIDE AIR	WPD	WATER PRESSURE DROP
EL	ELEVATION	OAF	OUTSIDE AIR FAN	WPR	WORKING PRESSURE DROP
ENT	ENTERING	OAI	OUTSIDE AIR INTAKE	WSHP	WATER SOURCE HEAT PUMP
EOV	ELECTRONICALLY OPERATED VALVE	OBD	OPPOSED BLADE DAMPER	WSP	WORKING STEAM PRESSURE
ESP	EXTERNAL STATIC PRESSURE	OD	OUTSIDE DIAMETER	WT	WEIGHT
ET	EXPANSION TANK	OZ	OUNCE		
EUH	ELECTRIC UNIT HEATER			YD	YARD, YARD DRAIN
EVAP	EVAPORATOR	P	PUMP	YR	YEAR
EWBT	ENTERING WET BULB TEMPERATURE	P/E	PNEUMATIC ELECTRIC		
EWT	ENTERING WATER TEMPERATURE	%	PERCENT	Z	ZONE
EXCH	EXCHANGER	PC	PUMPED CONDENSATE		
EXH	EXHAUST	PCC	PRECOOL COIL		
EXP	EXPANSION	PD	PRESSURE DROP		

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TO

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HYDRONIC AIR HANDLER SCHEDULE

MARK AHU-	SERVES	ARRANGEMENT	S/A CFM	MIN S/A CFM	O/A CFM	MIN O/A CFM	EXT. S.P. IN WG	FANS QTY	FANS HP	COOLING DATA ENT AIR DEG. F. DB	COOLING DATA ENT AIR DEG. F. WB	COOLING DATA LAT	COOLING DATA MIN. CAP. MBH TOTAL	COOLING DATA MIN. CAP. MBH SENS	COOLING DATA WATER GPM	COOLING DATA WATER ENT. DEG. F.	COOLING DATA WATER LVG. DEG. F.	MAX. PD FT WG	PRE HEATING DATA HEATING CFM	PRE HEATING DATA ENT AIR DEG. F. DB	PRE HEATING DATA LV AIR DEG. F. DB	PRE HEATING DATA CAP. MBH TOTAL	PRE HEATING DATA WATER GPM	PRE HEATING DATA WATER ENT. DEG. F.	PRE HEATING DATA WATER LVG. DEG. F.	MAX. PD FT WG	RE-HEATING DATA HEATING CFM	RE-HEATING DATA ENT AIR DEG. F. DB	RE-HEATING DATA LV AIR DEG. F. DB	RE-HEATING DATA CAP. MBH TOTAL	RE-HEATING DATA WATER GPM	RE-HEATING DATA WATER ENT. DEG. F.	RE-HEATING DATA WATER LVG. DEG. F.	MAX. PD FT WG	VFD ELEC. DATA MCA	VFD ELEC. DATA MOCP	VFD ELEC. DATA VOLTS	VFD ELEC. DATA PH	MANUFACTURER AND MODEL NO.	WEIGHT LBS	REMARKS
1	FINE ARTS	TOP DISCHARGE, REAR RETURN, TOP OA	6,660	2,700	2,565	1,200	2.5	1	10	83.9	68.4	55	300.3	203.5	50.1	42.0	54.0	10	3340	30	55	89.8	4.5	140.0	100.0	10	--	--	--	--	--	--	--	--	14	30	480	3	TRANE UCCA	2,050	1-13
2	ADMIN	TOP DISCHARGE, TOP RETURN, REAR OA	4,325	1,400	850	475	2.5	1	5	79.5	65.8	55	134.5	101.9	22.4	42.0	54.0	10	2170	45	55	24.6	1.2	140.0	100.0	10	--	--	--	--	--	--	--	--	8	15	480	3	TRANE UCCA	1675	1-13
3	CLASSROOM	TOP DISCHARGE, TOP RETURN, REAR OA	7,145	3,400	3,350	1,300	2.5	1	10	85.8	69.6	55	342.9	229.9	57.2	42.0	54.0	10	3575	29	55	101.9	5.1	140.0	100.0	10	--	--	--	--	--	--	--	--	14	30	480	3	TRANE UCCA	2,275	1-13
4	LIFE SKILLS	TOP DISCHARGE, TOP RETURN, REAR OA	5,625	1,800	1,800	1,150	2.5	1	7.5	82.4	67.5	55	208.9	148.4	34.8	42.0	54.0	10	2815	28	55	82.1	4.1	140.0	100.0	10	--	--	--	--	--	--	--	--	8	15	480	3	TRANE UCCA	1,900	1-13
5	CLASSROOM	TOP DISCHARGE, TOP RETURN, REAR OA	6,505	3,060	3,000	1,350	2.5	1	10	85.6	69.5	55	308.5	206.4	51.4	42.0	54.0	10	3255	29	55	92.0	4.6	140.0	100.0	10	--	--	--	--	--	--	--	--	14	30	480	3	TRANE UCCA	2,100	1-13
6	GYM	TOP DISCHARGE, REAR RETURN, REAR OA	4,900	2,765	2,765	700	1	1	7.5	88.0	70.9	55	263.6	160.6	43.9	42.0	54.0	10	4900	28	95	354.6	17.7	140.0	100.0	10	4900	55	75	105.8	5.3	140.0	100.0	10	8	15	480	3	TRANE CSAA	2,100	1-13
7	DINING	TOP DISCHARGE, REAR RETURN, TOP PA	10,330	4,770	4,000	700	2.5	2	7.5	83.9	68.4	55	436.2	278.6	72.7	42.0	54.0	10	5190	35	55	113.3	5.7	140.0	100.0	10	--	--	--	--	--	--	--	--	27	40	480	3	TRANE UCCA	2,750	1-13
8	KITCHEN	TOP DISCHARGE, REAR RETURN, TOP OA	4,275	1,285	1,250	1,250	1	1	5	81.7	67.1	55	200.0	150.0	33.3	42.0	54.0	10	4275	29	95	304.1	15.2	140.0	100.0	10	4275	55	75	92.3	4.6	140.0	100.0	10	8	15	480	3	TRANE CSAA	2,050	1-13
9	SCIENCE	TOP DISCHARGE, REAR RETURN, REAR OA	11,200	5,875	5,000	1,850	2.5	1	15	85.3	69.3	55	552.4	389.3	92.1	42.0	54.0	10	5600	34	55	125.5	6.3	140.0	100.0	10	--	--	--	--	--	--	--	--	27	40	480	3	TRANE CSAA	3,650	1-13
10	CLASSROOM	TOP DISCHARGE, TOP RETURN, REAR OA	7,225	3,350	3,350	1,300	2.5	1	15	85.7	69.5	55	370.0	240.0	61.7	42.0	54.0	10	3615	28	55	105.4	5.3	140.0	100.0	10	--	--	--	--	--	--	--	--	14	30	480	3	TRANE UCCA	2,400	1-13
11	CLASSROOM	TOP DISCHARGE, TOP RETURN, REAR OA	7,500	3,230	3,000	1,350	2.5	1	10	84.2	68.6	55	330.0	220.0	55.0	42.0	54.0	10	3890	31	55	100.9	5.0	140.0	100.0	10	--	--	--	--	--	--	--	--	14	30	480	3	TRANE UCCA	2,275	1-13
12	LIBRARY	TOP DISCHARGE, REAR RETURN, TOP OA	4,000	1,200	950	250	1	1	5	80.5	66.3	55	143.9	114.0	24.0	42.0	54.0	10	4000	37	95	251.6	12.6	140.0	100.0	10	4000	55	75	86.4	4.3	140.0	100.0	10	8	15	480	3	TRANE CSAA	1,900	1-13

1. ESP DOES NOT INCLUDE FILTER OR UNIT LOSSES
2. REFER TO CONTROLS DOCUMENTS FOR CONTROL REQUIREMENTS.
3. ALL ACCESS TO BE PROVIDED FROM SINGLE SIDE OF UNIT. VERIFY UNIT HANDEDNESS PRIOR TO ORDERING EQUIPMENT.
4. PROVIDE WITH DOUBLE-WALL CONSTRUCTION WITH CLOSED CELL FOAM INNER LINER AND THERMAL BREAK, DOUBLE-WALL ACCESS DOOR WITH QUARTER TURN DOOR HANDLES
5. PROVIDE WITH CORROSION RESISTANT CONDENSATE PAN
6. CAPACITIES LISTED ARE NET FROM UNIT DISCHARGE
7. PROVIDE WITH DIRECT DRIVE SUPPLY FAN(S) WITH PREMIUM EFFICIENCY MOTOR.
8. PROVIDE FILTER RACK SECTION WITH 2" PLEATED MERV 13 FILTERS.
9. PROVIDE WITH DUCT SMOKE DETECTOR IN RETURN DUCT INTERLOCKED WITH SUPPLY FAN FOR SHUTDOWN UPON DETECTION
10. BASIS OF DESIGN IS TRANE. CONTRACTOR RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
11. PROVIDE WITH SINGLE POINT OF POWER CONNECTION.
12. PROVIDE WITH DEMAND CONTROL VENTILATION. REFER TO CONTROL DIAGRAMS.
13. PROVIDE WITH COATED COILS RATED FOR COASTAL ENVIRONMENT.

HYDRONIC FAN COIL UNIT SCHEDULE

MARK FCU-	SERVES	ARRANGEMENT	SUPPLY FAN DES CFM	SUPPLY FAN O/A CFM	SUPPLY FAN EXT. S.P.	HOT WATER HEATING EAT	HOT WATER HEATING LAT	HOT WATER HEATING CAP MBH	HOT WATER HEATING WATER EWT	HOT WATER HEATING WATER LWT	HOT WATER HEATING WATER GPM	HOT WATER HEATING WATER MAX P.D.	NET COOLING PERFORMANCE DATA CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS	CAPACITY (MBH) LAT	ENTERING AIR D.B.	ENTERING AIR W.B.	WATER LAT D.B.	WATER EWT	WATER LWT	WATER GPM	WATER MAX P.D.	POWER CONN. V	PH	MCA	MOCP	MANUFACTURER MAKE AND MODEL	REMARKS
A1	ART	HORIZONTAL	1,600	420	0.50	61	90	51.0	140	100	2.5	10	54.3	38.9	15.4	81	66	55	42	54	9.1	10	277	1	7.2	15	TRANE BCHE	1-10
A2	ART	HORIZONTAL	1,400	450	0.50	58	90	48.2	140	100	2.4	10	50.4	34.1	16.3	82	67	55	42	54	8.4	12	277	1	7.2	15	TRANE BCHE	1-10
C1	STAIR	HORIZONTAL	500	50	0.25	67	90	12.4	140	100	0.6	10	15.0	12.0	3.0	77	64	55	42	54	2.5	10	277	1	7.2	15	TRANE BCHE	1-10
E1	STAIR	HORIZONTAL	500	50	0.25	67	90	12.4	140	100	0.6	10	15.0	12.0	3.0	77	64	55	42	54	2.5	10	277	1	7.2	15	TRANE BCHE	1-10
E2	STAIR	HORIZONTAL	500	50	0.25	67	90	12.4	140	100	0.6	10	15.0	12.0	3.0	77	64	55	42	54	2.5	10	277	1	7.2	15	TRANE BCHE	1-10
F1	MECH	HORIZONTAL	600	0	0.25	71	90	12.3	140	100	0.6	10	15.0	12.0	3.0	74	63	55	42	54	2.5	10	277	1	7.2	15	TRANE BCHE	1-10

1. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY
2. UNITS SHALL PERFORM TO LISTED CAPACITIES. UNIT PERFORMANCE MUST SATISFY BOTH SENSIBLE AND LATENT CAPACITY REQUIREMENTS.
3. DESIGN BASIS IS TRANE. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
4. PROVIDE WITH 2" MERV 11 FILTERS.
5. PROVIDE WITH STAINLESS STEEL OR CORROSION RESISTANT CONDENSATE DRAIN PAN
6. PROVIDE WITH AN END RETURN AIR CONNECTION AND AN END SUPPLY AIR CONNECTION
7. REFER TO CONTROL DIAGRAMS.
8. PROVIDE SINGLE POINT POWER CONNECTION
9. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR
10. PROVIDE WITH COATED COILS RATED FOR COSTAL ENVIRONMENT

PACKAGED MAKEUP AIR UNIT WITH NATURAL GAS HEAT SCHEDULE

MARK MAU-	ARRANGEMENT	SUPPLY FAN SUPPL Y CFM	SUPPLY FAN O/A CFM	SUPPLY FAN EXT. S.P.	SUPPLY FAN QTY	SUPPLY FAN HP	NATURAL GAS HEATING EAT	NATURAL GAS HEATING LAT	NATURAL GAS HEATING CAP. MBH	NATURAL GAS HEATING INPUT MBH	NATURAL GAS HEATING NO. STAGES	NET COOLING PERFORMANCE DATA CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS.	CAPACITY (MBH) LAT.	O.D. D.B.	ENTERING D.B.	ENTERING W.B.	MIN. IEER	COMPRESSOR QTY	COMPRESSOR REF. TYPE	POWER CONN. V	POWER CONN. PH	POWER CONN. MCA	POWER CONN. MOCP	MANUFACTURE MAKE AND MODEL	UNIT WEIGHT (LBS.)	REMARKS
1	DOWNFLOW	1250	1250	1.5	1	1	28	80	61.0	76.0	MOD	70	35	35	100	105	78	12.6	1	454B	480	3	30	40	CAPTIVEAIRE CAS	1115	1-9
2	DOWNFLOW	1275	1275	1.5	1	1	28	80	61.0	76.0	MOD	70	35	35	100	105	78	12.6	1	454B	480	3	30	40	CAPTIVEAIRE CAS	1115	1-9

1. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
2. UNITS SHALL PERFORM TO LISTED CAPACITIES. UNIT PERFORMANCE MUST SATISFY BOTH SENSIBLE AND LATENT CAPACITY REQUIREMENTS.
3. DESIGN BASIS IS CAPTIVEAIRE. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
4. PROVIDE GALVANIZED INSULATED FACTORY ROOF CURB TO MATCH ROOF SLOPE.
5. PROVIDE WITH HAIL GUARDS.
6. INTERLOCK WITH TOGGLE SWITCH FOR ASSOCIATED KITCHEN HOODS AND KITCHEN EXHAUST FANS.
7. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER.
8. PROVIDE WITH INTEGRAL DISCONNECT AND UNPOWERED GFCI RECEPTACLE
9. PROVIDE WITH STAINLESS STEEL OR CORROSION RESISTANT CONDENSATE DRAIN PAN

AIR COOLED CHILLER SCHEDULE

MARK CH-	NOMINAL TONS	O.D. D.B.	TYPE	EWT DEG F	LWT DEG F	FLOW (GPM) MIN	FLOW (GPM) DESIGN	WPD FT WG	FOULING FACTOR	EER	IPLV	REF. TYPE	UNIT ELECTRICAL VOLTS	UNIT ELECTRICAL PH.	UNIT ELECTRICAL HZ	UNIT ELECTRICAL MCA	UNIT ELECTRICAL MOCP	WEIGHT (LBS)	MANUFACTURER AND MODEL NO.	REMARKS
1	350	98	SCREW	54	42	367	625	8.4	0.0001	10.1	15.98	R454B	460	3	60	675	800	19,050	TRANE RTAF	1-11
2	350	98	SCREW	54	42	367	625	8.4	0.0001	10.1	15.98	R454B	460	3	60	675	800	19,050	TRANE RTAF	1-11

1. ALL PIPING (AND CHILLER WATER-SIDE COMPONENTS) EXPOSED TO AMBIENT CONDITIONS SHALL BE HEAT TRACED AND INSULATED TO PREVENT FREEZING, DOWN TO 0 DEG F. MINIMUM
2. PROVIDE LOW AMBIENT HEAD PRESSURE CONTROLS TO ALLOW OPERATION DOWN TO 0 DEG F. AMBIENT
3. PROVIDE SINGLE POINT POWER CONNECTION WITH NON-FUSED DISCONNECT SWITCH AND HIGH SCCR RATING
4. PROVIDE SUCTION ACCUMULATOR, WATER FLOW SWITCH AND PUMP DIFFERENTIAL SENSOR
5. PROVIDE PACKAGED UNIT FOR OUTDOOR APPLICATION
6. PROVIDE A MINIMUM OF TWO VARIABLE VOLUME RATIO SCROLL COMPRESSORS
7. PROVIDE WITH E-COATED ALUMINUM MICROCHANNEL COILS FOR COASTAL ENVIRONMENT APPLICATIONS
8. PROVIDE 115V NEMA 3R SERVICE OUTLET
9. PROVIDE WATER PRESSURE GAUGE SET
10. PROVIDE VARIABLE SPEED CONDENSER FANS WITH LOW SOUND KIT AND SOUND OPTIMIZATION
11. PROVIDE FULL HAIL GUARD COIL PROTECTION PACKAGE

GAS FIRED HYDRONIC BOILER

MARK B-	TYPE	HEATING CAPACITY... INPUT	HEATING CAPACITY... OUTPUT	TURNDOWN	MIN. EFF. (%)	FLUE SIZE	WATER TEMP. ENT.	WATER TEMP. LVG.	GPM	VOLT	PHASE	MCA	MANUFACTURER AND MODEL NUMBER	REMARKS
1	CONDENSING	2,000	1,800	10:1	90	6"	100	140	90	208	3	7.8	HYDROTHERM KN	1-6
2	CONDENSING	2,000	1,800	10:1	90	6"	100	140	90	208	3	7.8	HYDROTHERM KN	1-6

1. PROVIDE COMBINATION WATER FEEDER AND LOW WATER CUT-OFF
2. PROVIDE VERTICAL DRAFT DIVERTER
3. PROVIDE CAST IRON HEAT EXCHANGER
4. PROVIDE WITH MANUFACTURER CONTROLLER FOR CASCADING CONTROL OF ALL BOILERS. CONTROLLER TO INCLUDE BACNET CAPABILITY FOR CONNECTION TO CAMPUS BMS SYSTEM.
5. PROVIDE FACTORY MOUNTED 100 PSI PRESSURE RELIEF VALVE
6. PROVIDE WITH MANUFACTURER'S CIRCULATION PUMP CONTROLLER

PUMP SCHEDULE

MARK -	SERVES	TYPE	GPM	TOTAL HEAD FT. W.G.	PUMP EFF.	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA V	MOTOR DATA PH	MANUFACTURER MAKE AND MODEL	REMARKS
CHWP-1	PRIMARY CHILLER LOOP	END SUCTION	625	120	77	25	3500	460	3	ARMSTRONG	1-8
CHWP-2	PRIMARY CHILLER LOOP	END SUCTION	625	120	77	25	3500	460	3	ARMSTRONG	1-8
BP-1	BOILER CIRCULATION	IN-LINE	90	20	80	3.0	3675	208	3	ARMSTRONG	1-7
BP-2	BOILER CIRCULATION	IN-LINE	90	20	80	3.0	3675	208	3	ARMSTRONG	1-7
HWP-1	HEATING WATER LOOP	END SUCTION	200	100	62	7.5	3200	460	3	ARMSTRONG	1-8
HWP-2	HEATING WATER LOOP	END SUCTION	200	100	62	7.5	3200	460	3	ARMSTRONG	1-8

1. PROVIDE STAINLESS STEEL FITTED IMPELLER
2. PROVIDE WITH A NEMA MG 1 PART 31 - PREMIUM EFFICIENCY MOTOR IN ACCORDANCE WITH NEMA STANDARDS. PROVIDE WITH SHAFT GROUNDING RINGS
3. PUMP SUBMITTED MUST MEET STATED PUMP EFFICIENCY AT CONDITIONS SPECIFIED
4. PUMP MOTOR SHALL BE INVERTER DUTY RATED.
5. PROVIDE WITH ODP MOTOR
6. PROVIDE WITH ANSI CLASS 125 FLANGES
7. PROVIDE WITH ABB VARIABLE FREQUENCY DRIVE TO BE MOUNTED ON WALL.
8. PROVIDE WITH END SUCTION DIFFUSER

EXPANSION TANK / AIR SEPARATOR SCHEDULE

MARK	SYSTEM	LOCATION	SYSTEM TEMP RANGE (DEG. F.)	TANK TYPE	TANK SIZE (GAL.)	TANK ACCEPTANCE...	TANK AIR CHARGE (PSIG)	TANK ASME RATING...	TANK MFG. / MODEL	TANK FLOODED WEIGHT...	TANK NOTES	AIR SEPARATOR MARK	AIR SEPARATOR CAP. GPM	AIR SEPARATOR CONN. PIPE...	AIR SEPARATOR MFG. / MODEL	AIR SEPARATOR FLOODED WEIGHT...	AIR SEPARATOR NOTES
ET-1	CHILLED WATER	MECH	42-70	DIAPHRAGM/FLOOR MNT	65	36	12	100	B&G / D120	842	1-4	AS-1	1900	8	B&G / RL-8F	1200	1,5,6,7
ET-2	HEATING WATER	MECH	100-140	DIAPHRAGM/FLOOR MNT	65	36	12	100	B&G / D120	842	1-4	AS-2	300	4	B&G / RL-4F	800	1,5,6,7

1. BELL & GOSSETT IS THE BASIS OF DESIGN.
2. ASME RATED, PRE-CHARGED BLADDER TYPE, CARBON STEEL SHELL TANK.
3. PROVIDE HEAVY DUTY BUTYL RUBBER BLADDER.
4. PROVIDE WITH BLADDER CONDITION MONITOR AND PRESSURE GAUGE.
5. ASME CERTIFIED, CARBON STEEL BODY.
6. PROVIDE WITH FLANGED CONNECTIONS.
7. CENTRIFUGAL SEPARATOR WITHOUT STRAINER.

SILENCER SCHEDULE (VIBRO-ACOUSTICS)

TAG	SYSTEM	TYPE	DIMENSIONS DUCT WIDTH, IN.	DIMENSIONS DUCT HEIGHT, IN.	DIMENSIONS LENGTH IN.	AIRFLOW, CFM	VELOCITY, FPM (NOTE 2)	IDEAL DP IN.W.G. (NOTE 3)	MAX.DP W/SYS EFF IN.W.G. (NOTE 4)	MINIMUM DYNAMIC INSERTION LOSS, dB (NOTE 5) / MAXIMUM AIRFLOW GENERATED NOISE, dB (NOTE 6) / OCTAVE BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000	BASIS OF DESIGN VIBRO-ACOUSTICS MODEL NUMBER	NOTES
		(NOTE 1)																	
AHU-3 Silencer	C103 Supply	RD	32	16	36	7145	+2010	0.16	UNKNOWN	3	3	7	14	25	19	14	8	RD-HV-F9	
										57	56	51	46	46	49	45	35		

Notes:
1. TYPE R - RECTANGULAR D - DISSIPATIVE
2. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
3. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
4. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
5. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
6. MAXIMUM SELF GENERATED NOISE DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.

Date
Revision /

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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LICENSED PROFESSIONAL ENGINEER
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MECHANICAL SCHEDULES

VOLUME 2

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SINGLE DUCT VAV BOX WITH HYDRONIC HEATING SCHEDULE

MARK VAV-	SERVES	INLET SIZE	AIR VALVE			HOT WATER HEATING								VOLTAGE	MANUFACTURER MAKE AND MODEL	REMARKS
			DESIGN CFM	MAX CFM	MIN CFM	HEAT CFM	EAT D.B.	LAT D.B.	CAP MBH	WATER						
										EWT	LWT	GPM	MAX P.D.			
1-01	CHOIR	12	1,495	1975	630	750	55	95	43.2	140	100	2.2	10	24V	ENVIRO-TEC SDR	1-10
1-02	ORCHESTRA	14	1,765	2750	810	885	55	95	51.0	140	100	2.5	10	24V	ENVIRO-TEC SDR	1-10
1-03	BAND	14	2,025	2750	810	1015	55	95	58.5	140	100	2.9	10	24V	ENVIRO-TEC SDR	1-10
1-04	PERCUSSION	8	400	840	155	200	55	95	11.5	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
1-05	VESTIBULE	6	325	435	100	165	55	95	9.5	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
1-06	CORRIDOR	8	650	840	195	325	55	95	18.7	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
2-01	WORKROOM	8	500	840	150	250	55	95	14.4	140	100	0.7	10	24V	ENVIRO-TEC SDR	1-10
2-02	PRINCIPAL	8	400	840	145	200	55	95	11.5	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
2-03	ADMIN	8	400	840	145	200	55	95	11.5	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
2-04	CONFERENCE	8	500	840	150	250	55	95	14.4	140	100	0.7	10	24V	ENVIRO-TEC SDR	1-10
2-05	COUNSELORS	8	575	840	175	290	55	95	16.7	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
2-06	CLINIC	8	525	840	160	265	55	95	15.3	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
2-07	CONFERENCE	8	350	840	145	175	55	95	10.1	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
2-08	RECEPTION	8	575	840	175	290	55	95	16.7	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
2-09	CORRIDOR	8	500	840	155	250	55	95	14.4	140	100	0.7	10	24V	ENVIRO-TEC SDR	1-10
3-01	CLASSROOM	8	600	840	360	300	55	95	17.3	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
3-02	CLASSROOM	8	600	840	360	300	55	95	17.3	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
3-03	CLASSROOM	8	600	840	360	300	55	95	17.3	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
3-04	FLEX	8	375	840	300	190	55	95	10.9	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
3-05	MAKER SPACE	10	800	1355	300	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
3-06	RR + CUST + CORR	10	850	1355	255	425	55	95	24.5	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
3-07	CLASSROOM	10	740	1355	360	370	55	95	21.3	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
3-08	CLASSROOM	10	740	1355	360	370	55	95	21.3	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
3-09	FLEX	10	700	1355	300	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
3-10	FLEX	10	700	1355	300	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
3-11	CONTENT	8	440	840	145	220	55	95	12.7	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
4-01	TESTING	10	775	1355	235	390	55	95	22.5	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
4-02	OBSER + RR	10	800	1355	240	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
4-03	ADAPTIVE BEH	8	600	840	180	300	55	95	17.3	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
4-04	LIFE SKILLS	12	1,300	1975	390	650	55	95	37.4	140	100	1.9	10	24V	ENVIRO-TEC SDR	1-10
4-05	MOTOR LAB	8	400	840	145	200	55	95	11.5	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
4-06	SPEECH	6	300	435	90	150	55	95	8.6	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10
4-07	LIFE SKILLS	10	950	1355	360	475	55	95	27.4	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
4-08	PSYC + DIAG	8	500	840	150	250	55	95	14.4	140	100	0.7	10	24V	ENVIRO-TEC SDR	1-10
5-01	LOUNGE	8	350	840	145	175	55	95	10.1	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
5-02	RR + CUST + CORR	10	700	1355	235	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
5-03	CLASSROOM	8	550	840	360	275	55	95	15.8	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
5-04	CLASSROOM	8	550	840	360	275	55	95	15.8	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
5-05	CLASSROOM	8	550	840	360	275	55	95	15.8	140	100	0.8	10	24V	ENVIRO-TEC SDR	1-10
5-06	CLASSROOM	10	740	1355	360	370	55	95	21.3	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
5-07	CLASSROOM	10	740	1355	360	370	55	95	21.3	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
5-08	FLEX	10	700	1355	300	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
5-09	FLEX	10	700	1355	300	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
5-10	CONTENT	8	600	840	180	300	55	95	17.3	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
5-11	WORKROOM	6	325	435	100	165	55	95	9.5	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
7-01	DINING	14	2,200	2750	1000	1100	55	95	63.4	140	100	3.2	10	24V	ENVIRO-TEC SDR	1-10
7-02	DINING	14	2,200	2750	1000	1100	55	95	63.4	140	100	3.2	10	24V	ENVIRO-TEC SDR	1-10
7-03	DINING	14	2,200	2750	1000	1100	55	95	63.4	140	100	3.2	10	24V	ENVIRO-TEC SDR	1-10
7-04	DINING	12	1,480	1975	880	740	55	95	42.6	140	100	2.1	10	24V	ENVIRO-TEC SDR	1-10
7-05	STAGE	10	1,000	1355	300	500	55	95	28.8	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
7-06	RR	5	250	350	75	125	55	95	7.2	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10
7-07	COACH OFF	8	350	840	280	175	55	95	10.1	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
7-08	CORRIDOR	10	700	1355	235	350	55	95	20.2	140	100	1.0	10	24V	ENVIRO-TEC SDR	1-10
9-01	SCIENCE CR	10	840	1355	515	420	55	95	24.2	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
9-02	SCIENCE CR	12	1,150	1975	750	575	55	95	33.1	140	100	1.7	10	24V	ENVIRO-TEC SDR	1-10
9-03	SCIENCE CR	12	1,150	1975	750	575	55	95	33.1	140	100	1.7	10	24V	ENVIRO-TEC SDR	1-10
9-04	SCIENCE CR	10	840	1355	515	420	55	95	24.2	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
9-05	SCIENCE CR	12	1,150	1975	750	575	55	95	33.1	140	100	1.7	10	24V	ENVIRO-TEC SDR	1-10
9-06	SCIENCE CR	10	840	1355	515	420	55	95	24.2	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
9-07	SCIENCE CR	12	1,150	1975	665	575	55	95	33.1	140	100	1.7	10	24V	ENVIRO-TEC SDR	1-10
9-08	SCIENCE CR	10	1,080	1355	515	540	55	95	31.1	140	100	1.6	10	24V	ENVIRO-TEC SDR	1-10
9-09	CORRIDOR	10	1,000	1355	300	500	55	95	28.8	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
9-10	CORRIDOR	10	1,000	1355	300	500	55	95	28.8	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
9-11	CORRIDOR	10	1,000	1355	300	500	55	95	28.8	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
10-1	INTERVENTION	8	375	840	145	190	55	95	10.9	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
10-2	CLASSROOM	8	650	840	360	325	55	95	18.7	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
10-3	CLASSSROOM	8	650	840	360	325	55	95	18.7	140	100	0.9	10	24V	ENVIRO-TEC SDR	1-10
10-4	LIBRARY WRK	5	250	350	75	125	55	95	7.2	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10
10-5	RESOURCE	6	300	435	90	150	55	95	8.6	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10
10-6	CORR + CUST + RR	10	1,000	1355	300	500	55	95	28.8	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
10-7	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
10-8	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
10-9	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
10-10	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
10-11	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-1	INTERVENTION	6	300	435	90	150	55	95	8.6	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10
11-2	CORR + CUST + RR	10	950	1355	285	475	55	95	27.4	140	100	1.4	10	24V	ENVIRO-TEC SDR	1-10
11-3	WAITING AREA	6	325	435	100	165	55	95	9.5	140	100	0.5	10	24V	ENVIRO-TEC SDR	1-10
11-4	CONFERENCE	8	400	840	145	200	55	95	11.5	140	100	0.6	10	24V	ENVIRO-TEC SDR	1-10
11-5	CLASSROOM	10	750	1355	360	375	55	95	21.6	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
11-6	CLASSROOM	10	750	1355	360	375	55	95	21.6	140	100	1.1	10	24V	ENVIRO-TEC SDR	1-10
11-7	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-8	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-9	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-10	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-11	CLASSROOM	10	800	1355	360	400	55	95	23.0	140	100	1.2	10	24V	ENVIRO-TEC SDR	1-10
11-12	RESOURCE	6	300	435	90	150	55	95	8.6	140	100	0.4	10	24V	ENVIRO-TEC SDR	1-10

1. PROVIDE WITH 24V ACTUATOR TO BE POWERED BY DDC CONTRACTOR. COORDINATE EXACT LOCATION OF DDC PANEL TO POWER TERMINAL UNITS WITH ELECTRICAL...
2. PROVIDE 1" MATT-FACED INSULATION ON ALL INTERIOR SURFACES
3. PROVIDE LEFT OR RIGHT HAND CONFIGURATIONS AS NECESSARY FOR ACCESSIBILITY
4. PROVIDE RECOMMENDED MAINTENANCE CLEARANCES. PROVIDE ACCESS PANELS IN WALLS/CEILINGS AS REQUIRED
5. PROVIDE CONTROLS PER SEQUENCE OF OPERATION AND SPECIFICATIONS
6. HEATING COIL IS MOUNTED AT THE BOX DISCHARGE
7. PROVIDE WITH INTEGRAL DISCONNECT SWITCH
8. PROVIDE WITH MODULATING HOT WATER CONTROL VALVE
9. BOX SELECTION SHALL BE BASED ON 80 PERCENT OF MANUFACTURER'S LISTED MAXIMUM ALLOWABLE CFM
10. CFM MIN/MAX VALUES REFER TO THE RANGE OF CAPABILITY FOR THIS AIR VALVE SIZE. IT IS NOT A MINIMUM/MAXIMUM SETTING

FAN SCHEDULE

MARK EF-	LOCATION	CFM	EXT. SP IN. W.G.	MOTOR DATA			DRIVE	MAX. SONES	CONTROL	MANUFACTURER AND MODEL NUMBER	REMARKS
				HP(WATTS)	V	PH					
A1	ART	850	0.50	1/4	120	1	DIRECT	7.1	SCHEDULED	GREENHECK G-120	1-4,6
A2	ART	850	0.50	1/4	120	1	DIRECT	7.1	SCHEDULED	GREENHECK G-120	1-4,6
A3	KILN	350	0.50	1/6	120	1	DIRECT	7.0	THERMOSTAT	GREENHECK G-95	1-4,6
A4	CUSTODIAL	125	0.25	(22)	120	1	DIRECT	0.3	SCHEDULED	GREENHECK CSP-A125	1-5
A5	RR	100	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA125	1-4,7
A6	RR	300	0.50	1/6	120	1	DIRECT	7.0	SCHEDULED	GREENHECK G-95	1-4,6
B1	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B2	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B3	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B4	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B5	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B6	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
B7	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
B8	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
B9	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
B10	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
B11	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
C1	RR + CUST	1,000	0.50	1/4	120	1	DIRECT	7.1	SCHEDULED	GREENHECK G-120	1-4,6
D1	LS RR	100	0.25	(18)	120	1	DIRECT	0.3	SCHEDULED	GREENHECK SPA110	1-4,7
D2	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
D3	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
D4	SCI CR	725	0.50	1/4	120	1	DIRECT	7.1	LOCAL SWITCH	GREENHECK G-120	1-4,6
E1	RR + CUST	1,050	0.50	1/4	120	1	DIRECT	7.1	SCHEDULED	GREENHECK G-120	1-4,6
F1	RR	300	0.50	1/6	120	1	DIRECT	7.0	SCHEDULED	GREENHECK G-95	1-4,6
F2	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
F3	CUSTODIAL	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA125	1-4,7
F4	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
F5	RR	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA110	1-4,7
F6	CUSTODIAL	70	0.25	(18)	120	1	DIRECT	0.3	OCCUPANCY SENSOR	GREENHECK SPA125	1-4,7
KEF1	KITCHEN ROOF	2,626	1.25	3	480	3	DIRECT	19.3	INTERLOCK	CAPTIVEAIRE DU180	1-4,6,8-11
KEF2	KITCHEN ROOF	2,678	1.25	3	480	3	DIRECT	19.3	INTERLOCK	CAPTIVEAIRE DU180	1-4,6,8-11
KEF3	KITCHEN ROOF	1,200	1.25	.75	120	1	DIRECT	10.6	INTERLOCK	CAPTIVEAIRE DU85	1-4,6,8-11

1. OR APPROVED EQUAL
2. PROVIDE WITH FACTORY PRE-WIRED, FAN SPEED CONTROLLER
3. PROVIDE A GRAVITY BACKDRAFT DAMPER
4. PROVIDE FAN WITH INTEGRAL DISCONNECT
5. SUSPEND FROM STRUCTURE ABOVE, USE FAN MANUFACTURER'S HANGING VIBRATION ISOLATOR KIT
6. PROVIDE INSULATED FACTORY ROOF CURB TO MATCH ROOF TYPE AND SLOPE
7. PROVIDE A WHITE, ALUMINUM GRILLE
8. PROVIDE UL-762 LISTED FAN FOR RESTAURANT EXHAUST APPLICATION
9. PROVIDE VENTED HOOD EXTENSION AND HINGED BASE KIT.
10. PROVIDE WITH GREASE CUP/TROUGH
11. INTERLOCK WITH TOGGLE SWITCH, LOCATION TO BE DETERMINED BY FOOD SERVICE CONSULTANT.

AIR DEVICE SCHEDULE

MARK	SERVES	MODULE SIZE	MOUNTING	TYPE	MANUFACTURER AND MODEL NO.	REMARKS
S1	SUPPLY	24" X 24"	LAY-IN/SURFACE	CONCENTRIC CONE	TITUS TMS	1,2,3,4,6
S2	SUPPLY	12" X 12"	LAY-IN/SURFACE	CONCENTRIC CONE	TITUS TMS	1,2,3,4,6
S3	SUPPLY	24" X 24"	LAY-IN/SURFACE	PERFORATED	TITUS PAS	1,2,3,4,6
S4	SUPPLY	VARIES	FLANGED	DRUM	TITUS DL	1,2,3,5,6
S5	SUPPLY	VARIES	SIDEWALL/SURFACE	SIDEWALL AEROBLADE	TITUS 272FL	1,2,3,5,6,8
S6	SUPPLY	4" SLOT	LAY-IN/SURFACE	(2) SLOT 1"	TITUS FL10	1,2,3,5,6,9,10,11
S7	SUPPLY	2" SLOT	LAY-IN/SURFACE	(1) SLOT 1"	TITUS FL10	1,2,3,5,6,9,10,11
S8	SUPPLY	4" SLOT	LAY-IN/SURFACE	(1) SLOT 1"	TITUS FL10	1,2,3,5,6,9,10,12
R1	RETURN	24" X 24"	LAY-IN/SURFACE	PERFORATED	TITUS PAR	1,2,3,5,6,7
R2	RETURN	VARIES	SIDEWALL/SURFACE	HEAVY DUTY	TITUS 63RS	1,2,3,5,6,7
E1	EXHAUST	24" X 24"	LAY-IN/SURFACE	PERFORATED	TITUS PAR	1,2,3,5,6,7

1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR MOUNTING IN RESPECTIVE CEILING/WALL TYPES AND CONDITIONS
2. STANDARD WHITE FINISH, UNLESS NOTED OTHERWISE. VERIFY FINAL COLOR SELECTION WITH ARCHITECT/OWNER PRIOR TO ORDERING
3. OR APPROVED EQUAL
4. FOUR-WAY THROW UNLESS OTHERWISE INDICATED ON PLAN
5. TRANSITION FROM BACK OF GRILLE TO DUCT SIZE SHOWN ON PLAN. PROVIDE RECTANGULAR TO ROUND TRANSITIONS AS REQUIRED
6. ALL DIFFUSERS, REGISTERS AND GRILLES SHALL HAVE AN NC < 25
7. PROVIDE RETURN AIR SOUND ANTTENUATORS WHERE RETURN GRILLE IS USED IN PLENUM RETURN APPLICATION.
8. PROVIDE WITH TAPE AND SPACKLE BORDER FOR INSTALLATION WITHIN GYP WALL.
9. PROVIDE SPLINE CLIPS FOR CONTINUOUS SLOT APPEARANCE
10. PROVIDE MANUFACTURER'S INSULATED SUPPLY PLENUM ON BACKSIDE OF LINEAR SLOT.
11. JET THROW PATTERN
12. HIGHTHROW PATTERN

HIGH VOLUME LOW SPEED FAN SCHEDULE

MARK HVLS-	FAN DIA. (FT)	MOTOR DATA			WEIGHT	MANUFACTURER AND MODEL NUMBER	REMARKS
		HP	VOLTS	PH			
1	12	0.5	120	1	88	BAF ESSENCE	1-6
2	12	0.5	120	1	88	BAF ESSENCE	1-6

1. VERIFY COLOR FINISH WITH ARCHITECT.
2. OR APPROVED EQUAL
3. FAN SHALL BE PROVIDED WITH APPROPRIATE MOUNTING KIT FOR MOUNTING FROM RESPECTIVE STRUCTURE TYPE.
4. PROVIDE WITH MANUFACTURER WALL-MOUNTED VARIABLE SPEED CONTROLLER
5. PROVIDE EXTENSION KIT AS REQUIRED TO MAINTAIN MOUNTING HEIGHT AS NOTED IN PLANS.
6. FANS SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM TO SHUTDOWN UPON WATERFLOW ALARM. COORDINATE WITH FIRE ALARM CONTRACTOR.

DUCTLESS DX SPLIT SYSTEM AIR CONDITIONER SCHEDULE

MARK AC-CU-	AIR HANDLER					MANUFACTURER MODEL	AIR COOLED CONDENSING UNIT								MANUFACTURER MODEL	COOLING PERFORMANCE DATA					REMARKS
	MOUNTING	CFM	FLA	POWER CONNECTION		WEIGHT (LBS.)		COMPRESSORS		REF. TYPE	FANS				WEIGHT (LBS.)	CAPACITY (MBH)		AMBIENT TEMP (DEG. F.)		MIN. SEER	
				V.	Ph.			NO.	R.L.AMPS EACH		NO.	FLA	V.	Ph.	MCA	MOCP			TOTAL	SENS	DB	WB		
A1	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
A2	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
B1	WALL	700	.76	POWERED THRU CU		37	MITSUBISHI TPK	1	12.9	R-454B	1	0.5	208	1	17.0	20	119	MITSUBISHI TRU	24.0	17.0	105	74	21	1-7
B2	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
B3	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
B4	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
C1	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
C2	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
D1	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
D2	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
E1	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
E2	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105	74	21	1-7
E3	WALL	400	.76	POWERED THRU CU		22	MITSUBISHI TPK	1	4.9	R-454B	1	0.5	208	1	7.0	15	81	MITSUBISHI TRU	12.0	10.0	105

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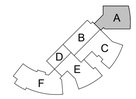
NOTES BY SYMBOL

1. PROVIDE COUNTER WEIGHT KILN HOOD CAPTURE SYSETM, VENT-A-KILN OR EQUAL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER'S IOM AND SPECIFIC KILN PROVIDED.
2. RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.
3. PROVIDE ZONE CONTROL DAMPER SYSTEM, RUSKIN MODEL ZDR25 OR EQUAL. SYSTEM TO INCLUDE FULL CONTROL ASSEMBLY INCLUDING CONTROL DAMPER, MODULATING ACTUATOR, INTEGRAL DUCT TEMP SENSOR, ACTUATOR LOGIC BOARD AND REMOTE WALL MOUNT TEMP SENSOR. TEMP SENSOR TO BE SET AT 85F COOLING AND 65F HEATING.
4. PROVIDE BACKDRAFT DAMPER TO ONLY ALLOW MAKEUP AIRFLOW INTO SCIENCE LABS.
5. PROVIDE 1" INTERNALLY LINED DUCT FROM VAV TERMINAL BOX THROUGH THE TRANSITION TO 12"/14" DUCT.
6. PROVIDE 1" INTERNALLY LINED DUCT FROM VAV TERMINAL BOX THROUGH THE TRANSITION TO 10"/12" DUCT.
7. PROVIDE 1" INTERNALLY LINED DUCT FROM VAV TERMINAL BOX TO THE END OF THE SUPPLY TRUNK DUCTWORK ABOVE PERCUSSION RM.



1 MECHANICAL PLAN - LEVEL 01 - AREA A
M2.1A 1/8" = 1'-0"



KEY PLAN - LEVEL 1
N.T.S.

PLAN N

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MECHANICAL PLAN - LEVEL 01 - AREA A

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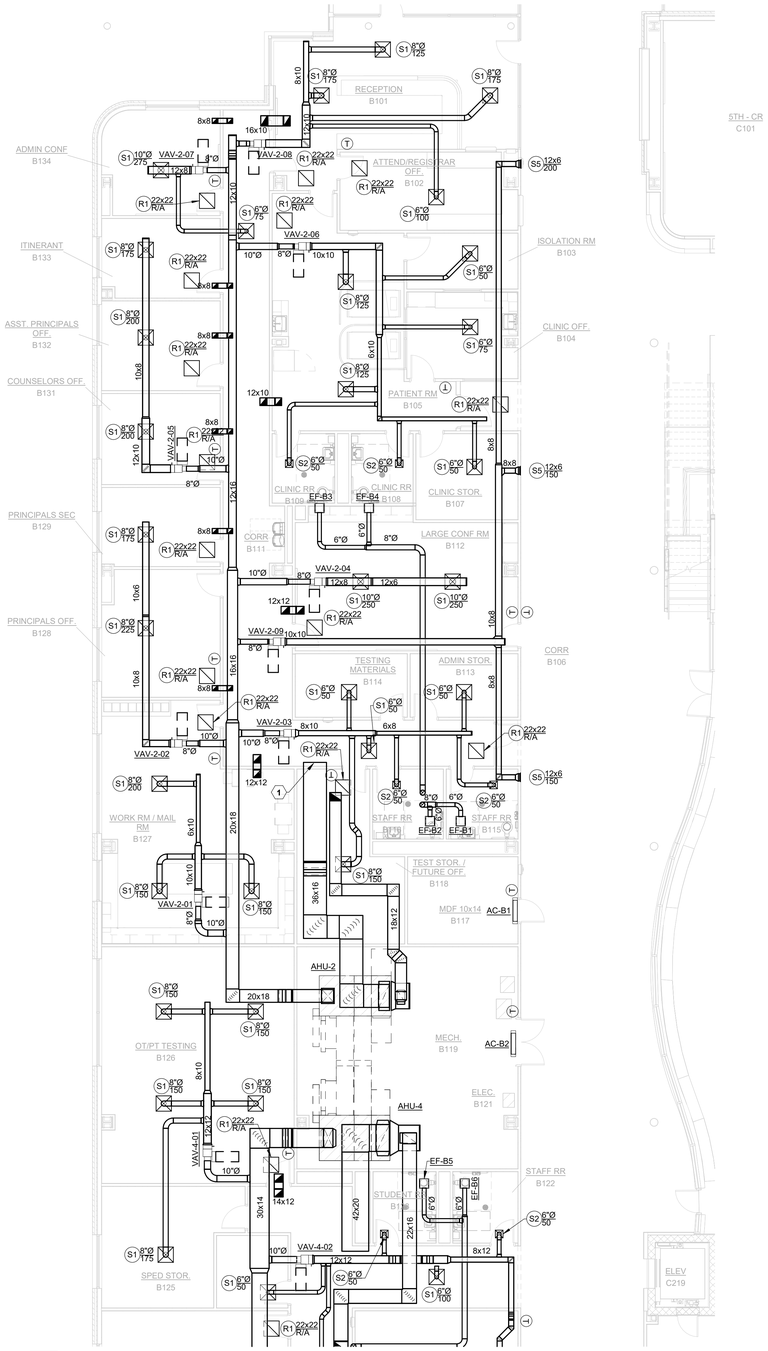
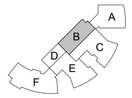
NOTES BY SYMBOL

1 RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.



1 MECHANICAL PLAN - LEVEL 01 - AREA B
M2.1B 1/8" = 1'-0"



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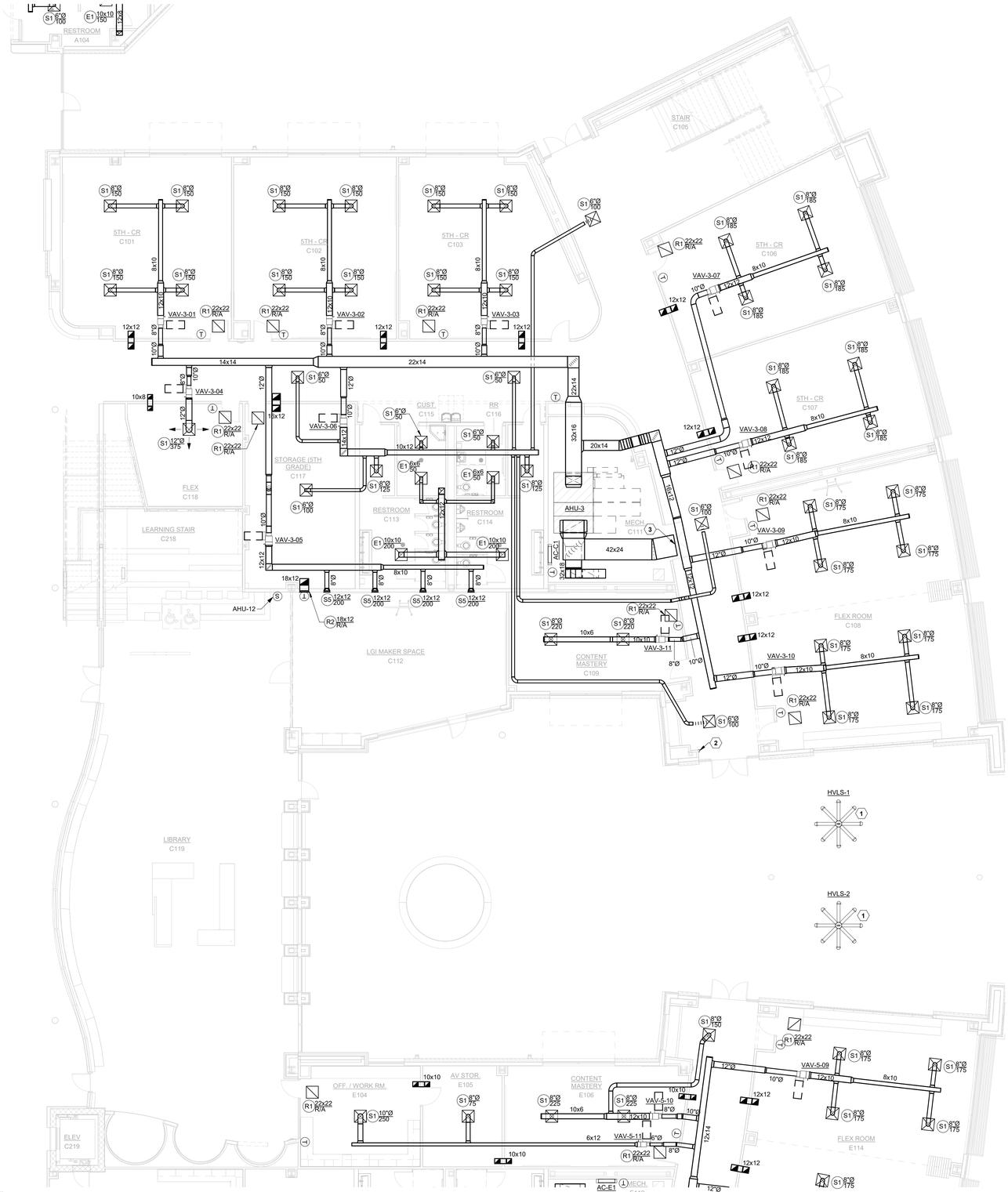
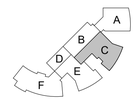
NOTES BY SYMBOL

1. HVLS FAN MOUNTED WITHIN EXTERIOR COVERED CANOPY. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND MANUFACTURER'S IOM. PROVIDE WITH EXTENSION KIT AS REQUIRED. COORDINATE EXACT COLOR/FINISH WITH ARCHITECT/OWNER PRIOR TO ORDER.
2. PROVIDE WALL MOUNTED HVLS CONTROL STATION. COORDINATE CONTROLLER ROUGH-IN LOCATION WITH ARCHITECT AND OWNER.
3. RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.



1 MECHANICAL PLAN - LEVEL 01 - AREA C
M2.1C 1/8" = 1'-0"



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NOTES BY SYMBOL

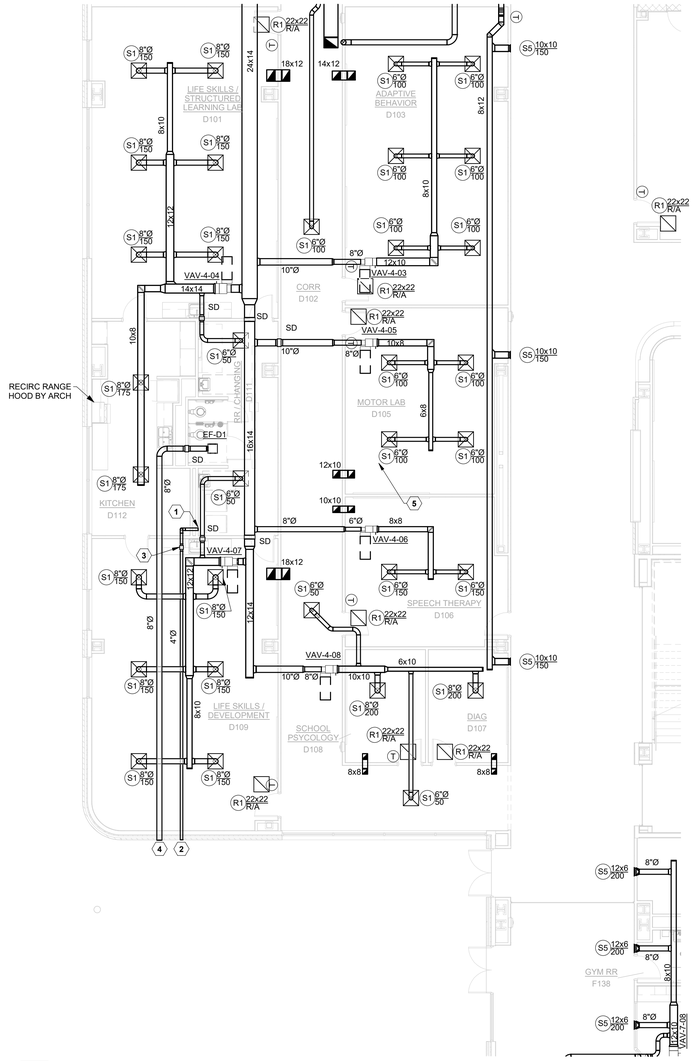
1 PROVIDE RECESSED DRYER VENT BOX, 22 GAUGE ALUMINIZED STEEL. EXTEND 4" RIGID SHEET METAL DRYER VENT DUCT AS INDICATED. PROVIDE 10" SMOOTH RADIUS 90'S FOR ALL TURNS. EXTEND DRYER VENT TO BUILDING EXTERIOR. PROVIDE WITH HOODED RAIN CAP. PROVIDE 4'-0" LONG METAL FLEXIBLE DRYER VENT DUCT FROM VENT BOX TO DRYER CONNECTION. SECURE FLEXIBLE DUCT WITH ADJUSTABLE METAL BAND CLAMPS.

2 TERMINATE DUCTWORK INTO HOODED WALL CAP. PROVIDE WITH BACKDRAFT DAMPER. COORDINATE ELEVATION OF TERMINATION WITH ARCHITECTURAL ELEVATIONS.

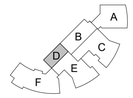
3 INSTALL FANTECH DEDPV-705 OR APPROVED EQUAL IN ACCESSIBLE SPACE ABOVE CEILING. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S IOM.

4 TERMINATE DUCTWORK INTO HOODED WALL CAP. PROVIDE WITH BACKDRAFT DAMPER AND INSECT SCREEN. COORDINATE ELEVATION OF TERMINATION WITH ARCHITECTURAL ELEVATIONS.

5 PROVIDE BLANKED OFF SLOTS TO MAINTAIN CONTINUOUS SLOT AT CEILING PERIMETER. COORDINATE WITH ARCHITECTURAL RCP.



1 MECHANICAL PLAN - LEVEL 01 - AREA D
M2.1D 1/8" = 1'-0"



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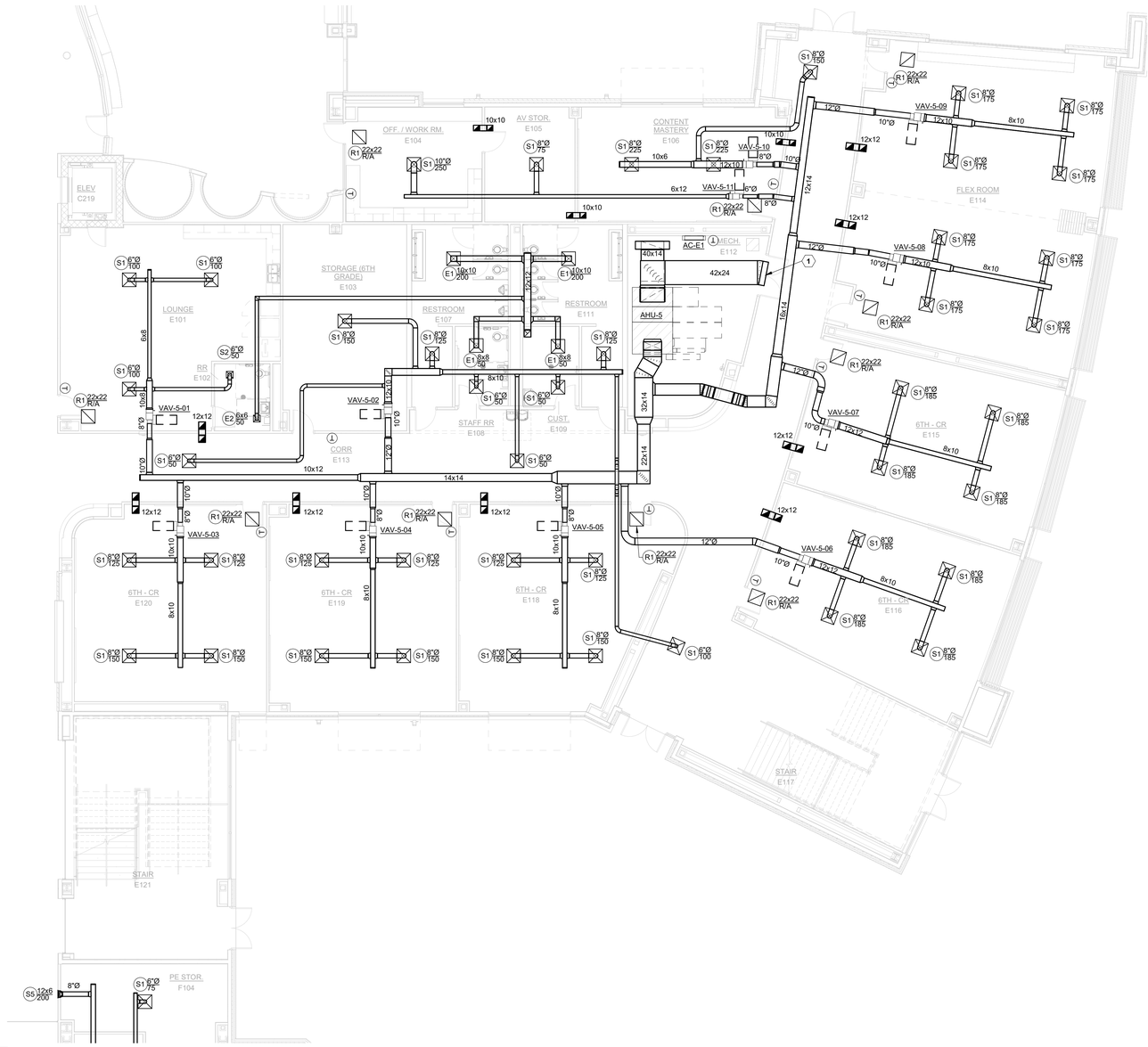
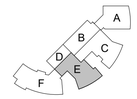
NOTES BY SYMBOL

1 RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.



1 M2.1E MECHANICAL PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"



KEY PLAN - LEVEL 1
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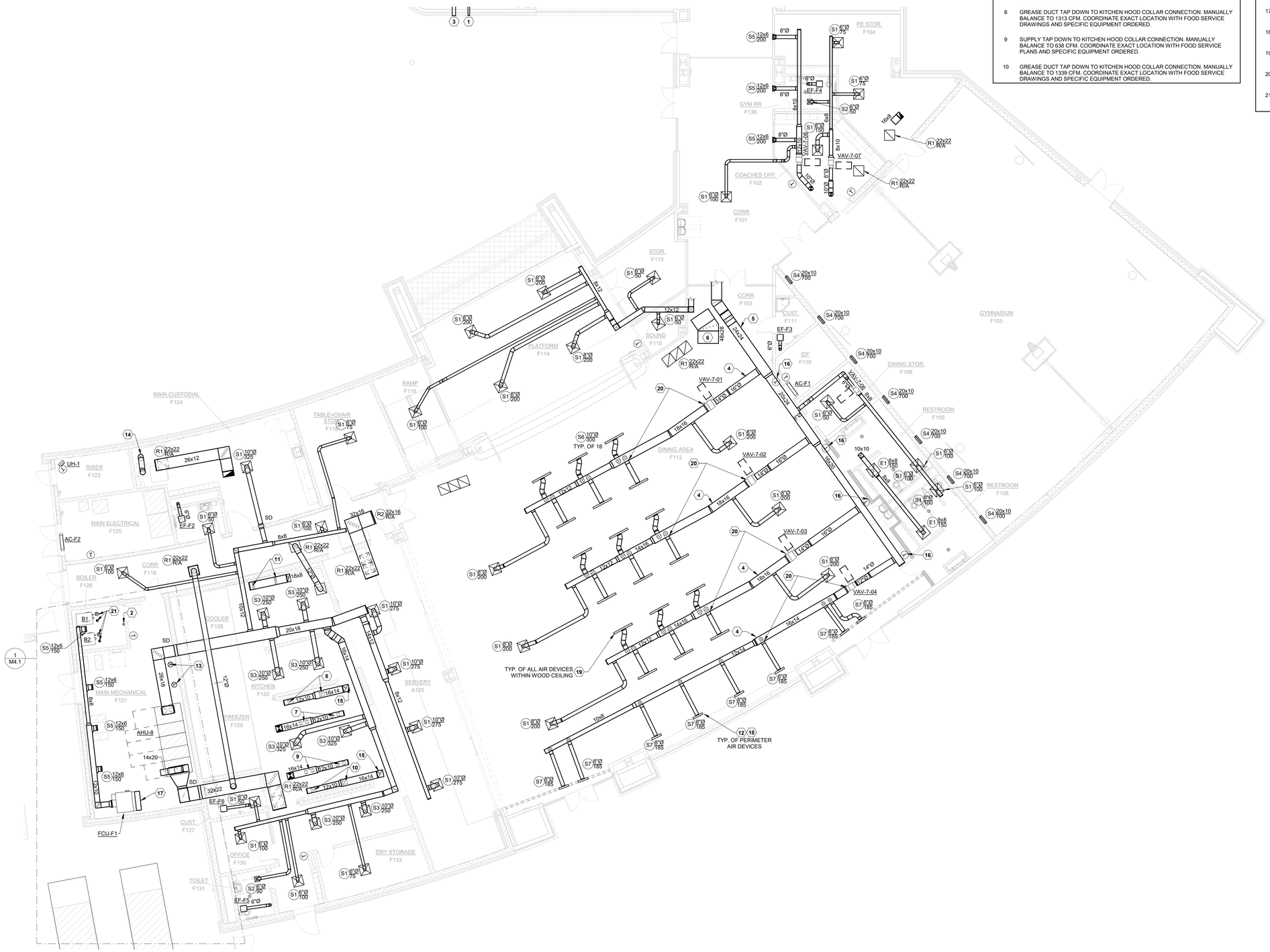
NOTES BY SYMBOL

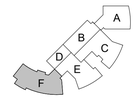
1. TERMINATE DUCTWORK INTO HOODED WALL CAP. PROVIDE WITH BACKDRAFT DAMPER. COORDINATE ELEVATION OF TERMINATION WITH ARCHITECTURAL ELEVATIONS.
2. PROVIDE CO AND NATURAL GAS MONITORING SYSTEM INTERLOCKED WITH BOILERS. AGS MINI-MERLIN OR EQUAL.
3. TERMINATE DUCTWORK INTO HOODED WALL CAP. PROVIDE WITH BACKDRAFT DAMPER AND INSECT SCREEN. COORDINATE ELEVATION OF TERMINATION WITH ARCHITECTURAL ELEVATIONS.
4. BRANCH AND RUNOUT DUCTWORK ROUTED THROUGH JOIST OPENINGS. COORDINATE EXACT ROUTING WITH JOIST MANUFACTURER AND BIM COORDINATED SHOP DRAWINGS.
5. MAIN TRUNK DUCTWORK ROUTED WITHIN JOIST BAY. COORDINATE EXACT ROUTING WITH JOIST MANUFACTURER AND BIM COORDINATED SHOP DRAWINGS.
6. TRANSFER DUCT BETWEEN ABOVE CEILING KITCHEN AND ADJACENT MECHANICAL ROOM. COVER ENDS OF DUCT WITH 1/4" BY 1/4" WIRE MESH.
7. SUPPLY TAP DOWN TO KITCHEN HOOD COLLAR CONNECTION. MANUALLY BALANCE TO 625 CFM. COORDINATE EXACT LOCATION WITH FOOD SERVICE PLANS AND SPECIFIC EQUIPMENT ORDERED.
8. GREASE DUCT TAP DOWN TO KITCHEN HOOD COLLAR CONNECTION. MANUALLY BALANCE TO 1313 CFM. COORDINATE EXACT LOCATION WITH FOOD SERVICE DRAWINGS AND SPECIFIC EQUIPMENT ORDERED.
9. SUPPLY TAP DOWN TO KITCHEN HOOD COLLAR CONNECTION. MANUALLY BALANCE TO 638 CFM. COORDINATE EXACT LOCATION WITH FOOD SERVICE PLANS AND SPECIFIC EQUIPMENT ORDERED.
10. GREASE DUCT TAP DOWN TO KITCHEN HOOD COLLAR CONNECTION. MANUALLY BALANCE TO 1339 CFM. COORDINATE EXACT LOCATION WITH FOOD SERVICE DRAWINGS AND SPECIFIC EQUIPMENT ORDERED.

NOTES BY SYMBOL

11. EXHAUST DUCT TURNED DOWN TO WAREWASH BELOW. COORDINATE EXACT DUCT SIZE AND CONNECTION LOCATION WITH SPECIFIC EQUIPMENT ORDERED. BALANCE PER FOOD SERVICE DRAWINGS.
12. PROVIDE BLANKED OFF SLOTS TO MAINTAIN CONTINUOUS SLOT AT CEILING PERIMETER. COORDINATE WITH ARCHITECTURAL RCP.
13. WATER HEATER FLUE AND COMBUSTION AIR DUCTS TURNED UP THROUGH ROOF. REFER TO WATER HEATER MANUFACTURER'S GUIDELINES ON SPECIFIC TERMINATION REQUIREMENTS. PROVIDE WITH MANUFACTURERS ROOF TERMINATION KIT.
14. DRYER EXHAUST DUCT FROM DRYER UP THROUGH ROOF. TERMINATE EXHAUST DUCT AT ROOF WITH GOOSENECK. INSTALL PER DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DRYER MANUFACTURER'S MAXIMUM ALLOWABLE DUCT LENGTH AND TRANSITION EXHAUST DUCT WHERE REQUIRED.
15. GREASE EXHAUST DUCT UP THROUGH ROOF. PROVIDE WITH RECTANGULAR RADIAL ELBOW. TRANSITION TO FULL SIZE CONNECTION AT EQUIPMENT AS REQUIRED.
16. INTERLOCK SETPOINTS OF ALL (4) CAFETERIA THERMOSTATS. VAV BOXES SHALL OPERATE INDEPENDENTLY TO MAINTAIN COLLECTIVE SETPOINT.
17. EXTEND FULL SIZE RETURN TO ALLOW FOR FILTER SECTION AND TERMINATE WITH 1/4" BY 1/4" WIRE MESH.
18. AIR DEVICES WITHIN GYP CEILING SHALL BE WHITE IN COLOR/FINISH. COORDINATE WITH ARCHITECTURAL RCP PRIOR TO ORDER/INSTALLATION.
19. AIR DEVICES WITHIN WOOD CEILING SHALL BE BLACK IN COLOR/FINISH. COORDINATE WITH ARCHITECTURAL RCP PRIOR TO ORDER/INSTALLATION.
20. PROVIDE 1" INTERNALLY LINED DUCT FROM VAV TERMINAL BOX THROUGH THE FIRST TWO DUCT TAPS ON THIS BRANCH.
21. BOILER FLUE AND COMBUSTION AIR DUCTS TURNED UP THROUGH ROOF. REFER TO BOILER MANUFACTURER'S GUIDELINES ON SPECIFIC TERMINATION REQUIREMENTS. PROVIDE WITH MANUFACTURERS ROOF TERMINATION KIT.



1 M2.1F MECHANICAL PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"



KEY PLAN - LEVEL 1
N.T.S.

PLAN N

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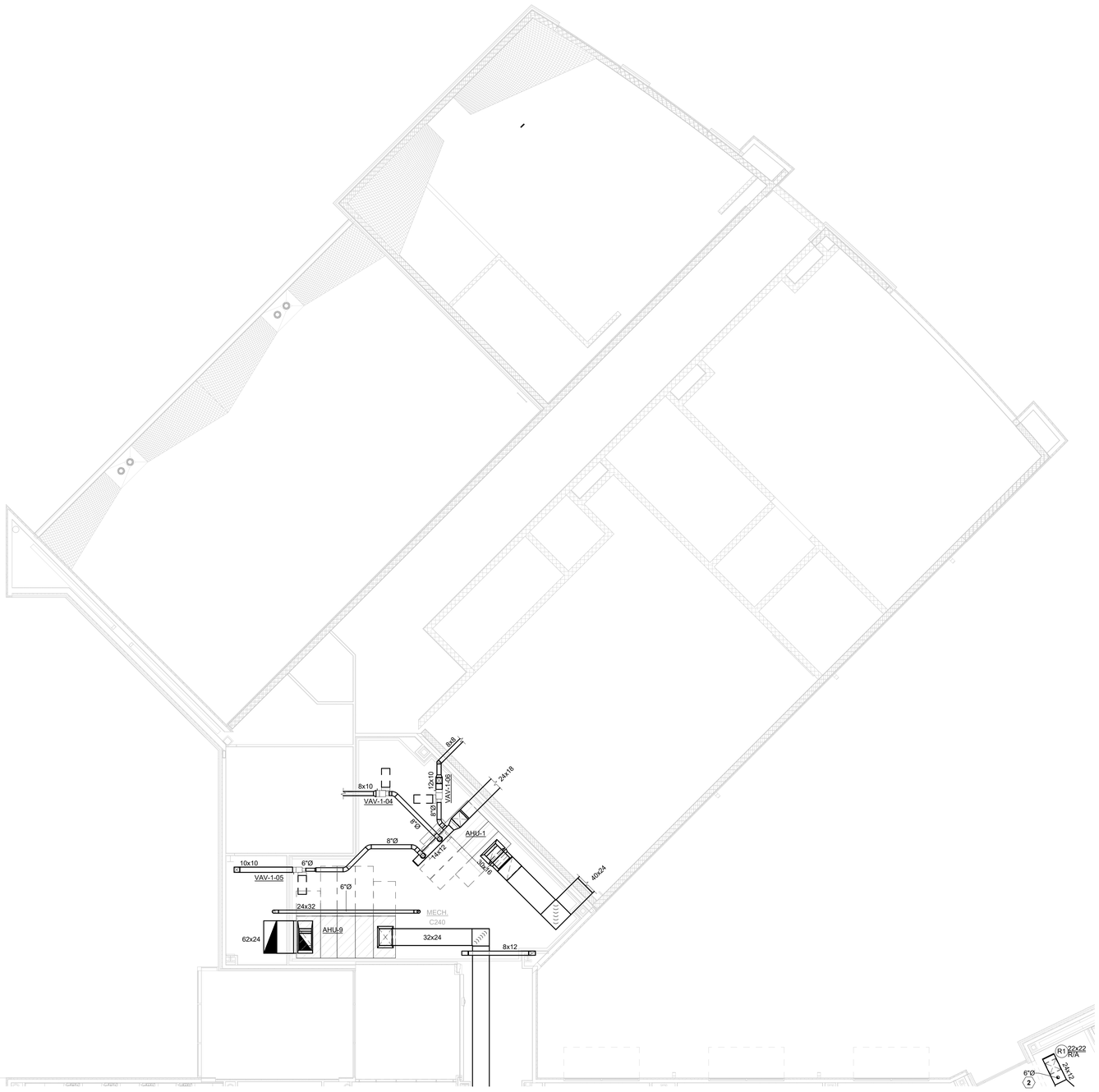
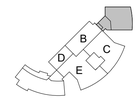
NOTES BY SYMBOL

2 PROVIDE MOTORIZED CONTROL DAMPER AND MANUAL BALANCING DAMPER IN OA DUCT AND BALANCING DAMPER IN RA DUCT. REFER TO DETAIL 2/M6.1.



1 M2.2A MECHANICAL PLAN - LEVEL 02 - AREA A
1/8" = 1'-0"



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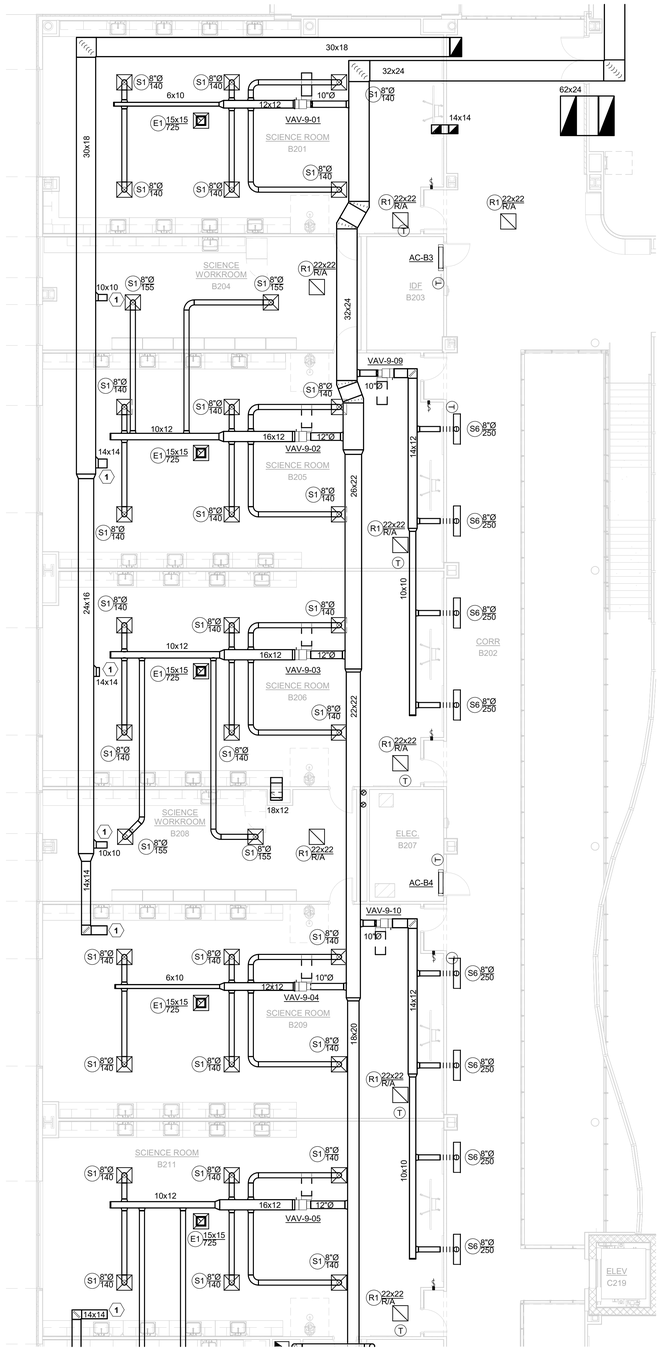
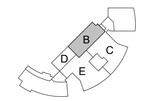
NOTES BY SYMBOL

1 TRANSFER AIR TAP IN ABOVE CEILING PLENUM. COVER WITH 1/4" BY 14" WIRE MESH.



1 MECHANICAL PLAN - LEVEL 02 - AREA B
M2.2B 1/8" = 1'-0"



KEY PLAN - LEVEL 2
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MECHANICAL PLAN - LEVEL 02 - AREA B

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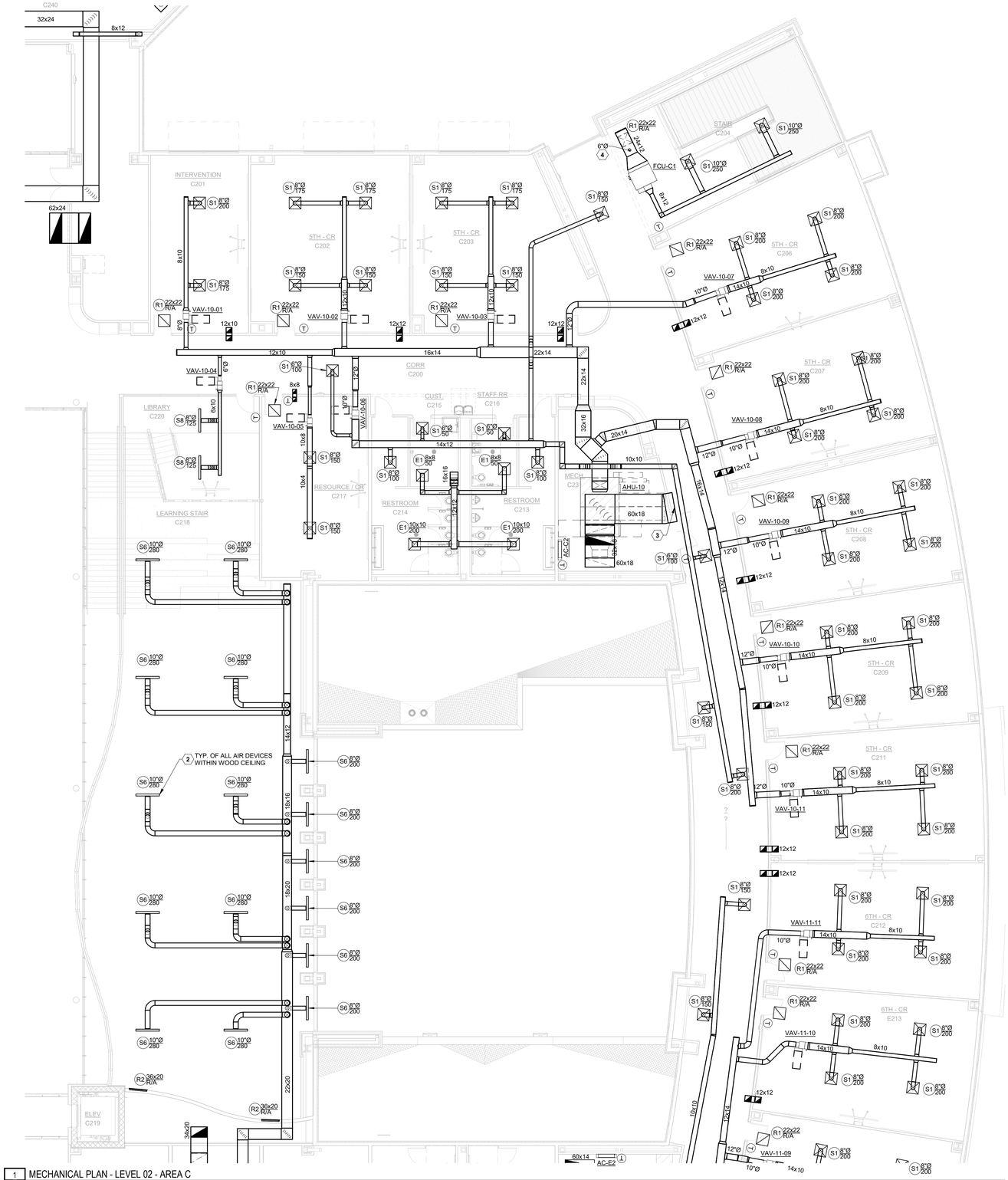
NOTES BY SYMBOL

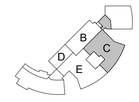
2 AIR DEVICES WITHIN WOOD CEILING SHALL BE BLACK IN COLOR/FINISH. COORDINATE WITH ARCHITECTURAL RCP PRIOR TO ORDER/INSTALLATION.

3 RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.

4 PROVIDE MOTORIZED CONTROL DAMPER AND MANUAL BALANCING DAMPER IN OA DUCT AND BALANCING DAMPER IN RA DUCT. REFER TO DETAIL 2/M6.1.



1 MECHANICAL PLAN - LEVEL 02 - AREA C
M2.2C 1/8" = 1'-0"



KEY PLAN - LEVEL 2
N.T.S.

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MECHANICAL PLAN - LEVEL 02 - AREA C

VOLUME 2

Job No.	Sheet No.
0/2602-04-01	M2.2C
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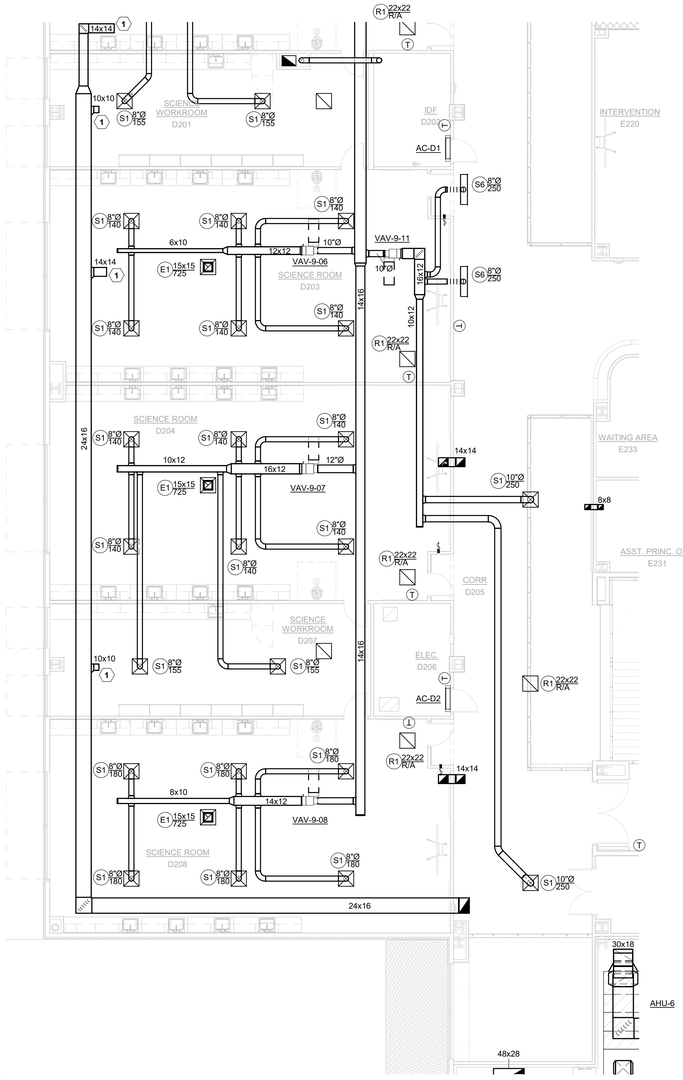
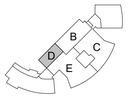
NOTES BY SYMBOL

1 TRANSFER AIR TAP IN ABOVE CEILING PLENUM. COVER WITH 1/4" BY 14" WIRE MESH.



1 M2.2D MECHANICAL PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"



KEY PLAN - LEVEL 2
N.T.S.

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MECHANICAL PLAN - LEVEL 02 - AREA D

VOLUME 2

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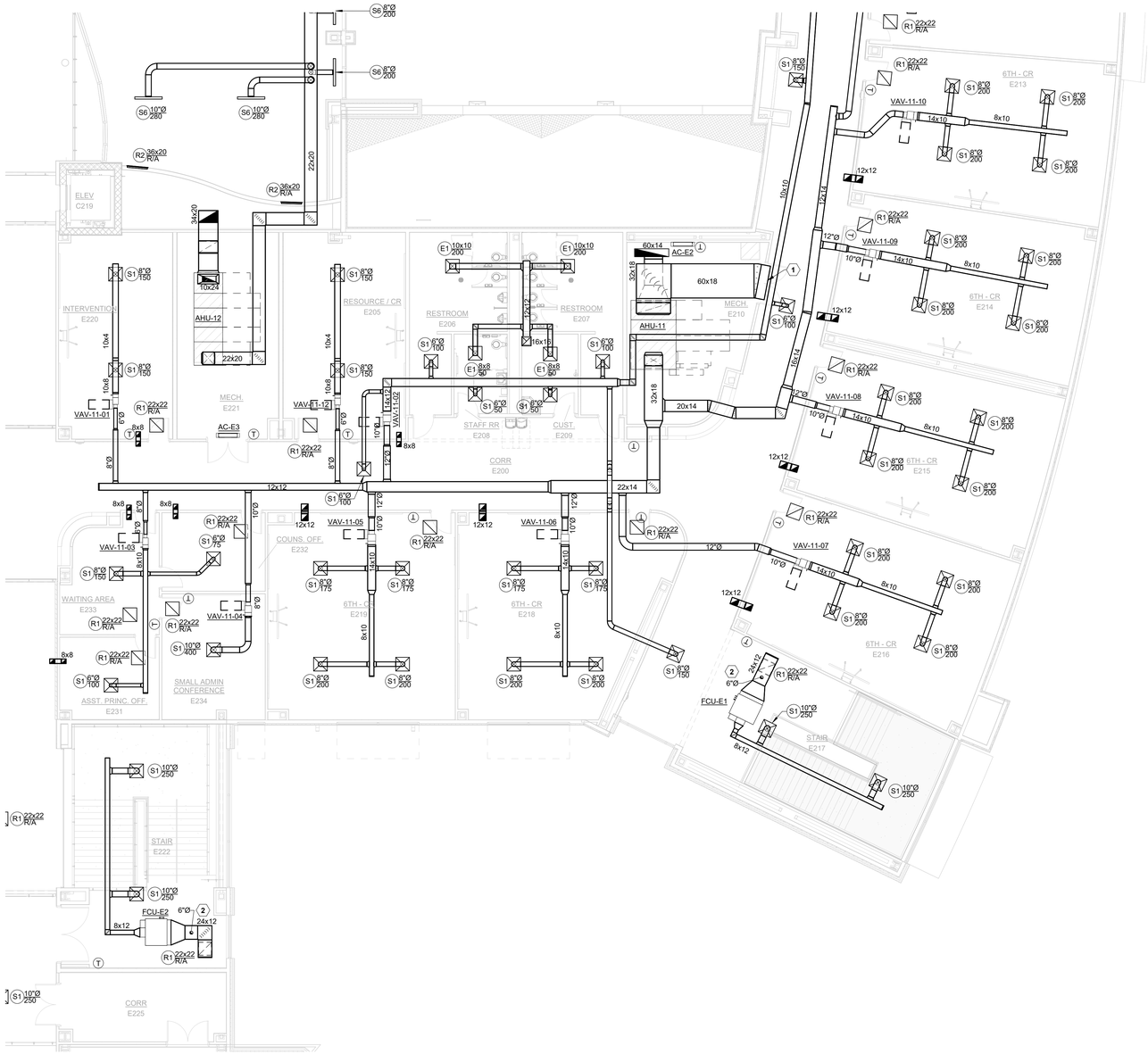
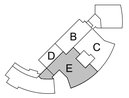
NOTES BY SYMBOL

1 RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.

2 PROVIDE MOTORIZED CONTROL DAMPER AND MANUAL BALANCING DAMPER IN OA DUCT AND BALANCING DAMPER IN RA DUCT. REFER TO DETAIL 2/M6.1.



1 M2.2E MECHANICAL PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"



KEY PLAN - LEVEL 2
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MECHANICAL PLAN - LEVEL 02 - AREA E

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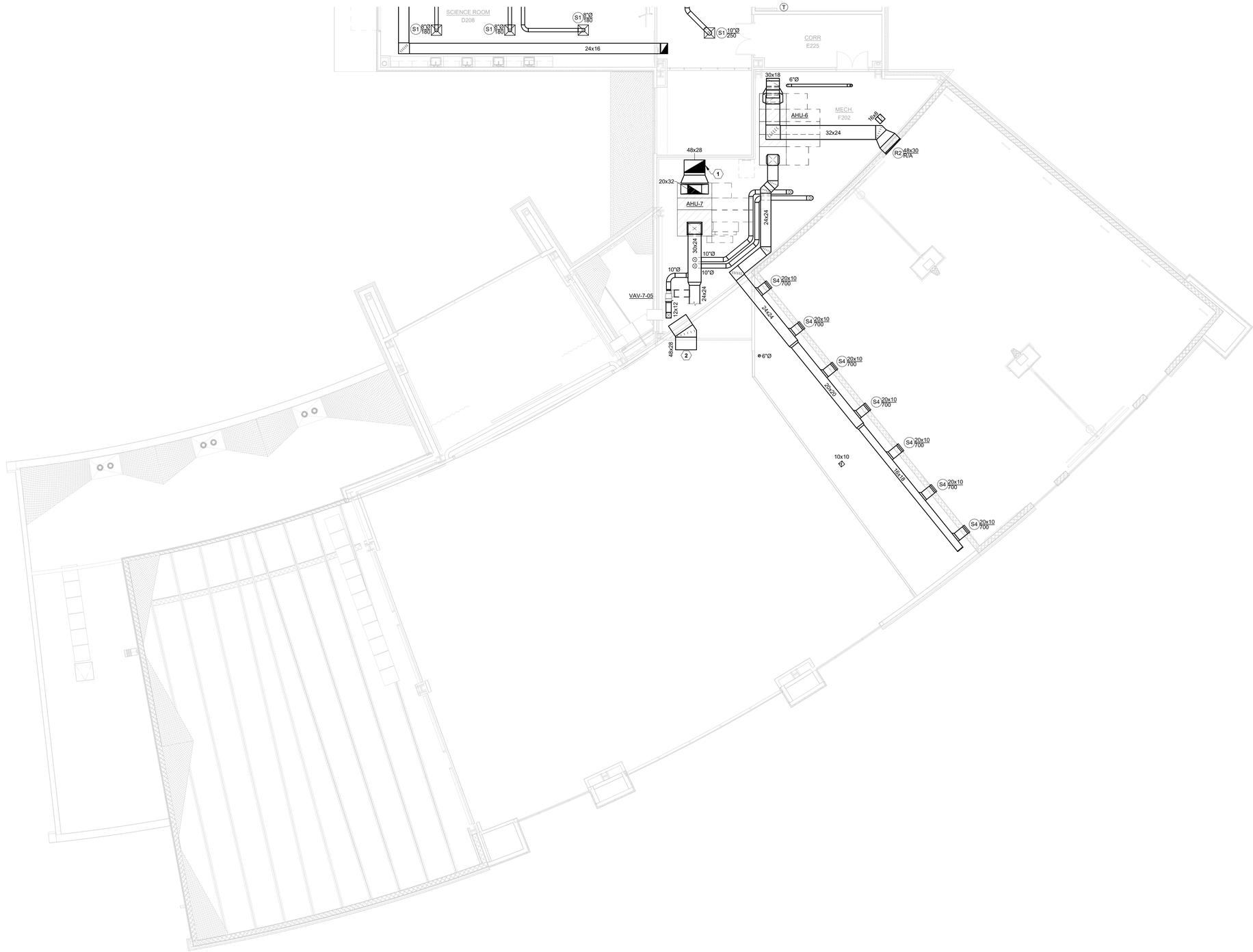
NOTES BY SYMBOL

1 RETURN AIR DUCT TERMINATED WITHIN PLENUM. COVER DUCT OPENING WITH 1/4" BY 1/4" WIRE MESH.

2 TRANSFER DUCT BETWEEN ABOVE CEILING KITCHEN AND ADJACENT MECHANICAL ROOM. COVER ENDS OF DUCT WITH 1/4" BY 1/4" WIRE MESH.



1 / M2.2F MECHANICAL PLAN - LEVEL 02 - AREA F
1/8" = 1'-0"

KEY PLAN - LEVEL 2
N.T.S.

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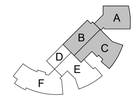
NOTES BY SYMBOL

1 EXHAUST DISCHARGE TERMINATED WITH COOK PR HOOD OR EQUALIVALENT GRAVITY VENTILATOR. MAINTAIN CODE REQUIRED 10' FROM ALL FRESH AIR INTAKES.

2 OUTSIDE AIR INTAKE TERMINATED IN COOK PR HOOD OR SIMILAR. MAINTAIN CODE REQUIRED 10' FROM ALL EXHAUST/VENT DISCHARGE.



1 M2.3A MECHANICAL PLAN - ROOF - AREA A, B, C
1/16" = 1'-0"



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MECHANICAL PLAN - ROOF - AREA A, B, C

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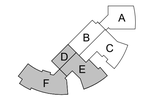
NOTES BY SYMBOL

1. EXHAUST DISCHARGE TERMINATED WITH COOK PR HOOD OR EQUALIVALENT GRAVITY VENTILATOR. MAINTAIN CODE REQUIRED 10' FROM ALL FRESH AIR INTAKES.
2. BOILER/WATER HEATER CONCENTRIC VENT/INTAKE. TERMINATE IN MANUFACTURER'S PROVIDE KIT.
3. OUTSIDE AIR INTAKE TERMINATED IN COOK PR HOOD OR SIMILAR. MAINTAIN CODE REQUIRED 10' FROM ALL EXHAUST/VENT DISCHARGE.
4. DRYER EXHAUST GOOSENECKS. REFER TO COMMERICAL DRYER MANUFACTURER'S IOM FOR VENT INSTALLATION REQUIREMENTS.
5. MAKEUP AIR INTAKE FOR COMMERCIAL DRYER UP FROM BELOW. TERMINATE AT ROOF WITH COOK TRE LOUVERED GRAVITY VENTILATION HOOD.



1 / M2.3B MECHANICAL PLAN - ROOF - AREA D, E, F
1/16" = 1'-0"



KEY PLAN - LEVEL 1
N.T.S.

PLAN N

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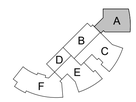
NOTES BY SYMBOL



1 MECHANICAL PIPING PLAN - LEVEL 01 - AREA A
M3.1A 1/8" = 1'-0"



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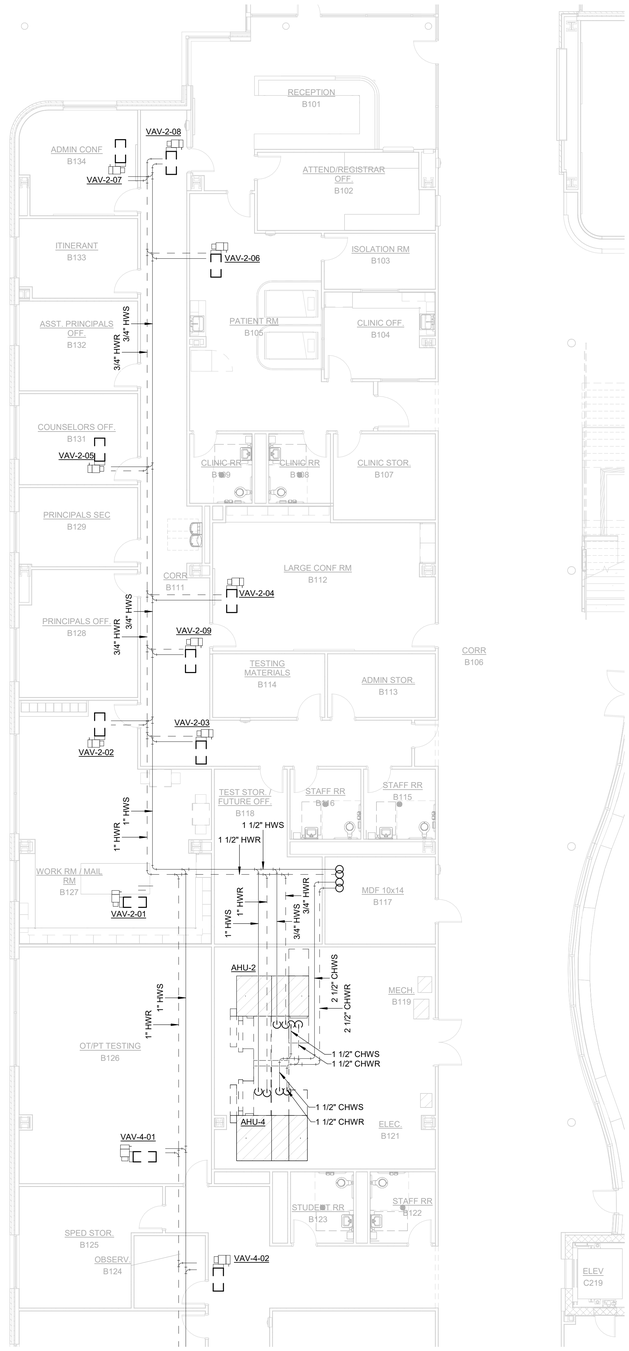
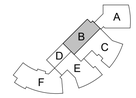


1 M3.1B MECHANICAL PIPING PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"



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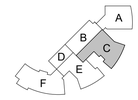
NOTES BY SYMBOL



1 / M3.1C — MECHANICAL PIPING PLAN - LEVEL 01 - AREA C

1/8" = 1'-0"



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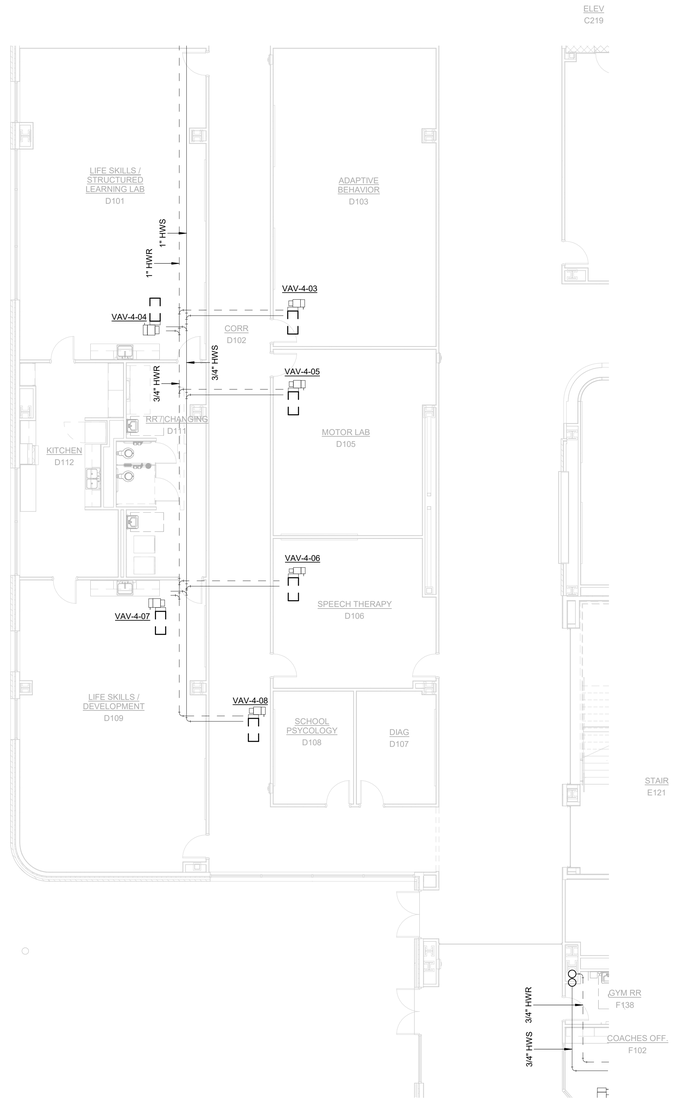
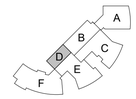


1 M3.1D — MECHANICAL PIPING PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"



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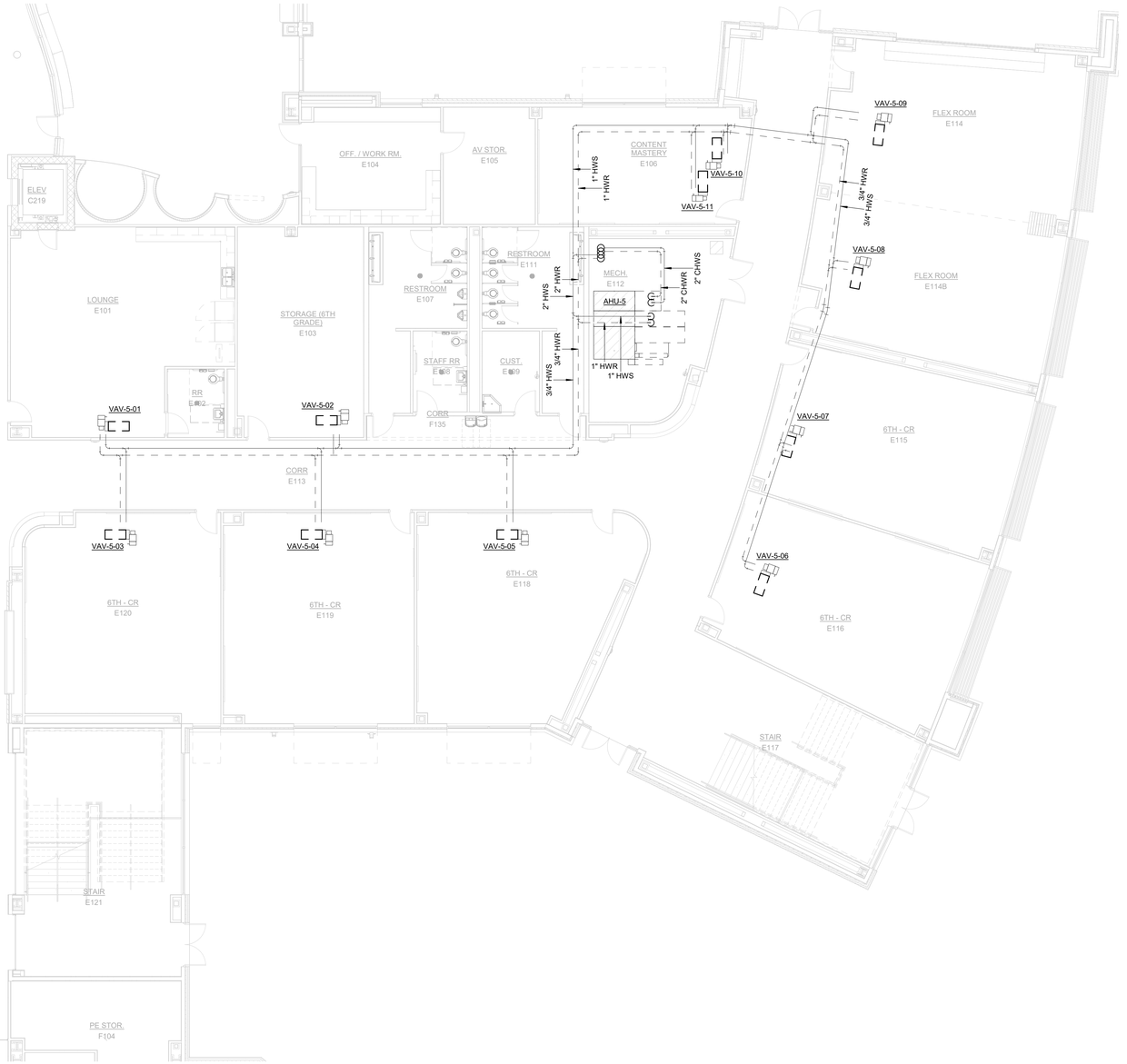
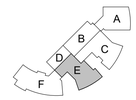


1 M3.1E MECHANICAL PIPING PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"



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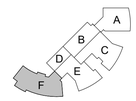
NOTES BY SYMBOL



1 M3.1F MECHANICAL PIPING PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"



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MECHANICAL PIPING PLAN - LEVEL 01 - AREA F

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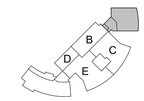
1 M3.2A MECHANICAL PIPING PLAN - LEVEL 02 - AREA A
1/8" = 1'-0"



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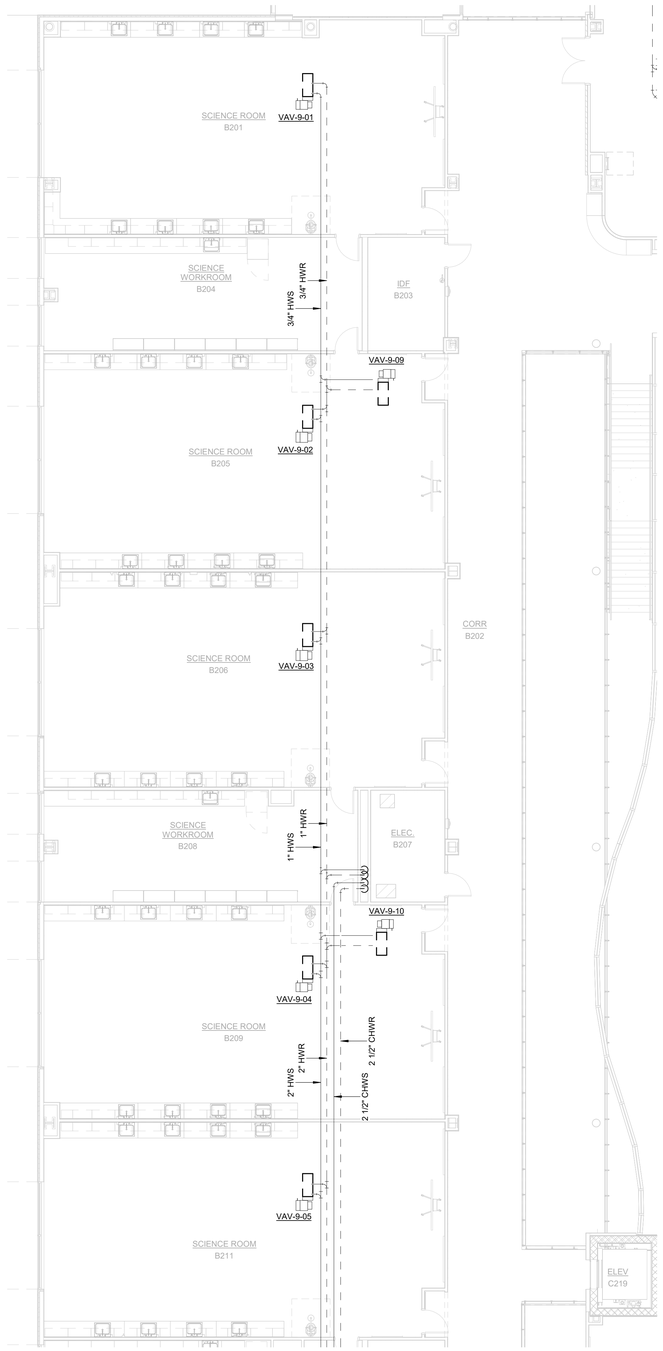
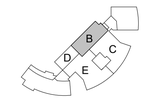
NOTES BY SYMBOL



1 M3.2B MECHANICAL PIPING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"



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MECHANICAL PIPING PLAN - LEVEL 02 - AREA B

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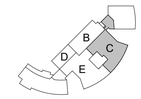
NOTES BY SYMBOL



1 M3.2C MECHANICAL PIPING PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"



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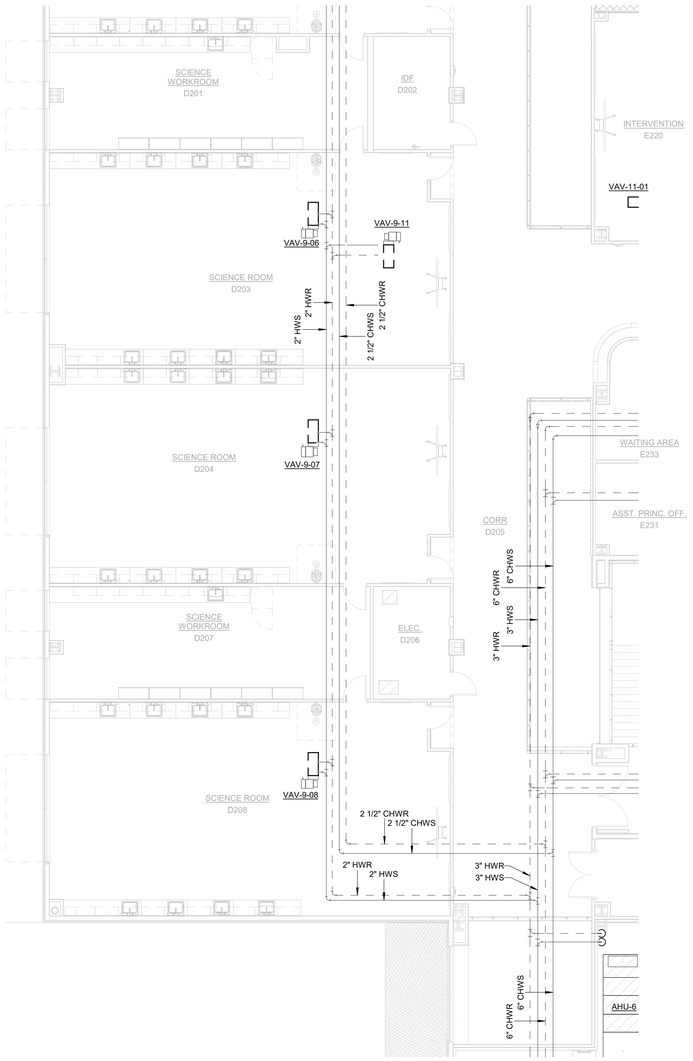

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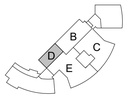

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1 M3.2E MECHANICAL PIPING PLAN - LEVEL 02 - AREA E
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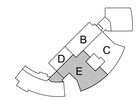

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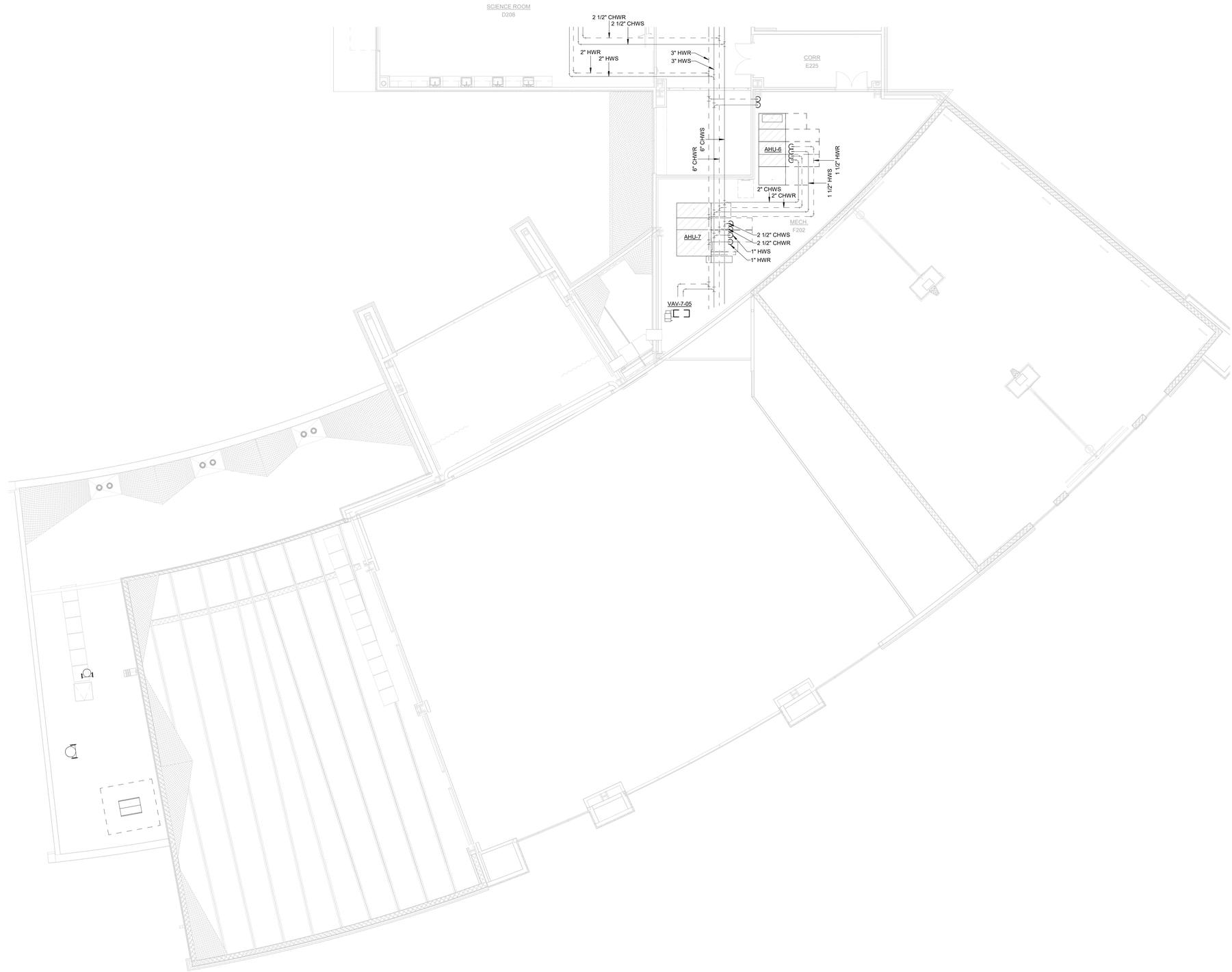

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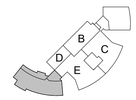

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NOTES BY SYMBOL

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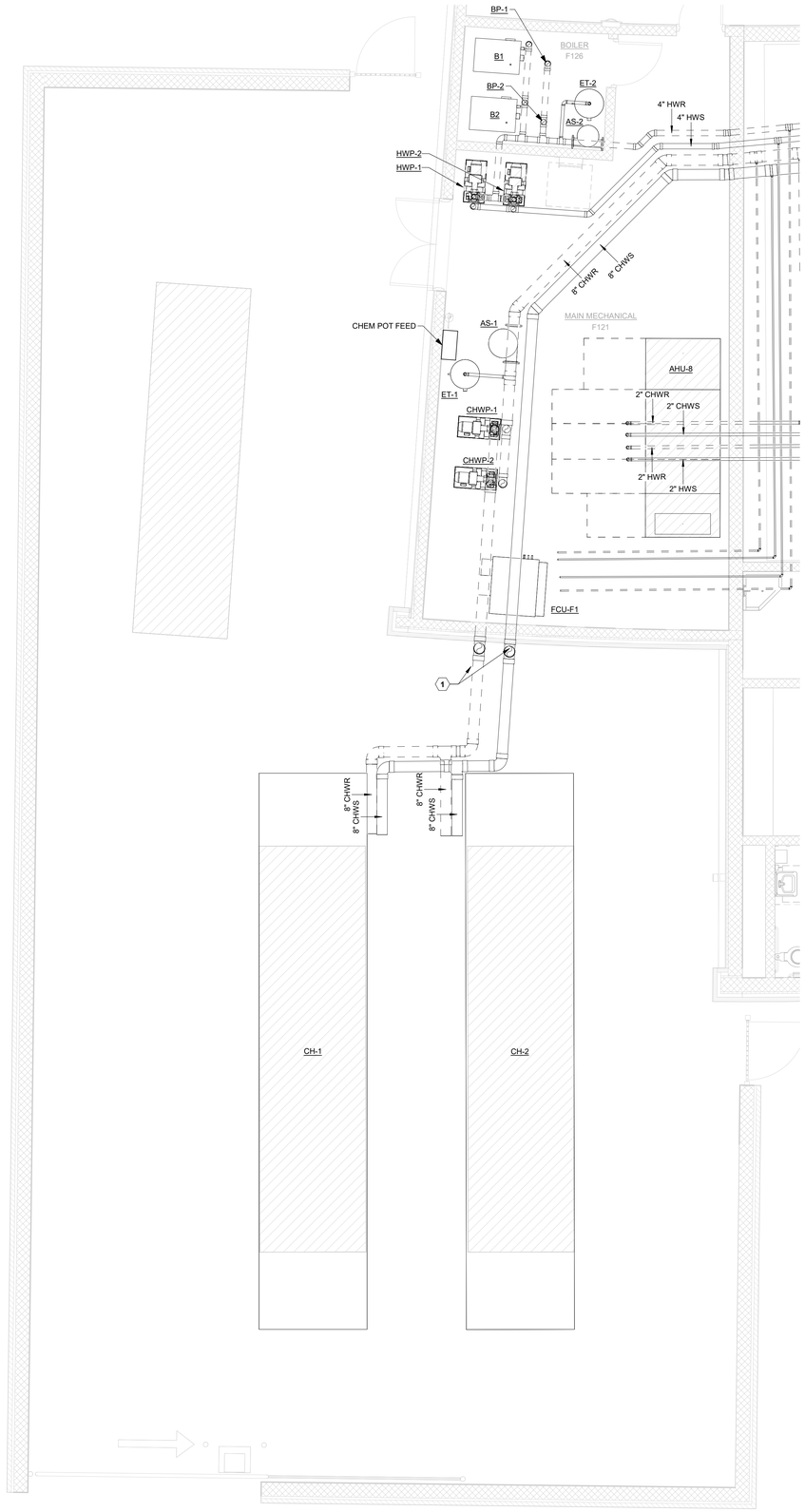
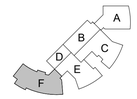


1 MECHANICAL SERVICE YARD
M4.1 1/4" = 1'-0"



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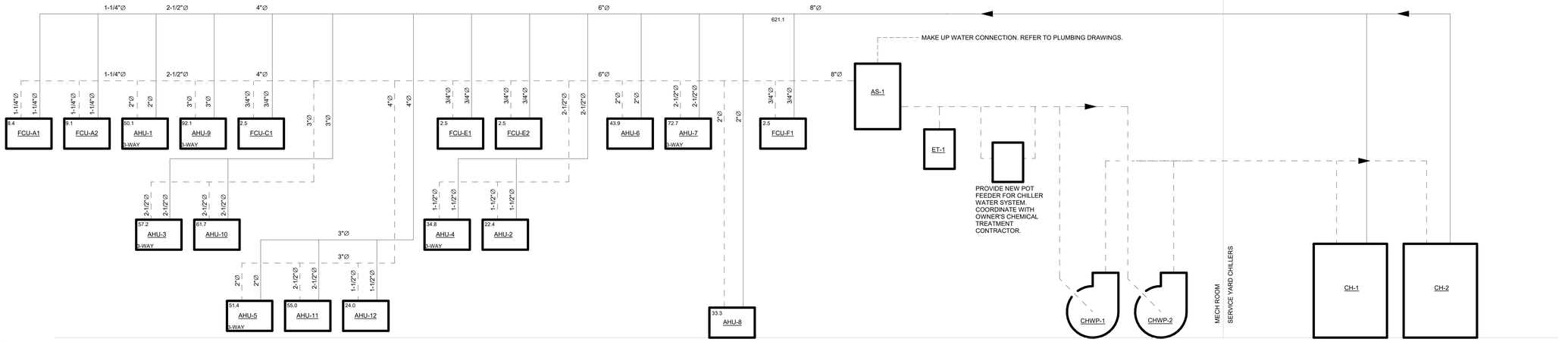
2. ALL VALVES TO BE TWO-WAY UNLESS NOTED OTHERWISE. (*PROVIDE THREE-WAY VALVE WHERE INDICATED)



1 CHILLED WATER RISER DIAGRAM
M4.2 N.T.S.

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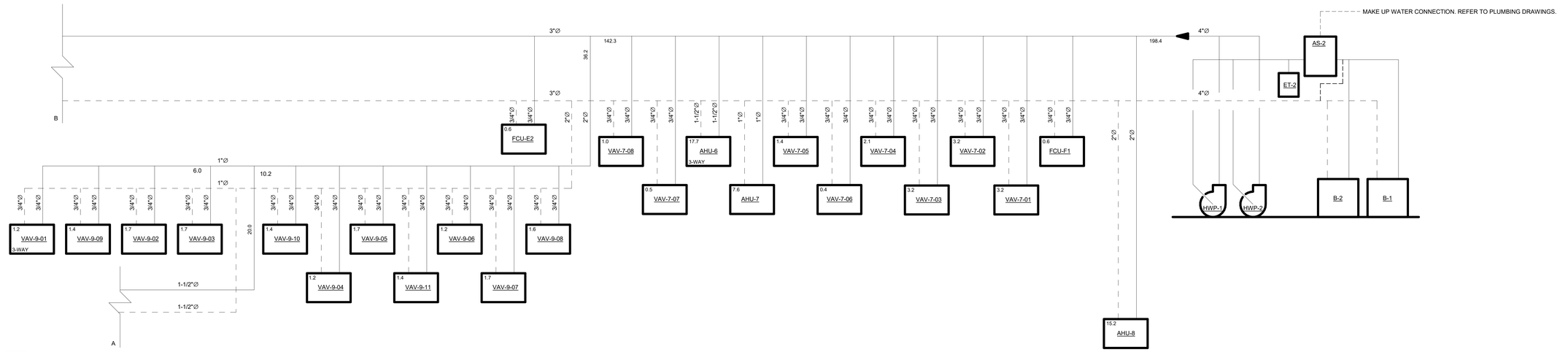
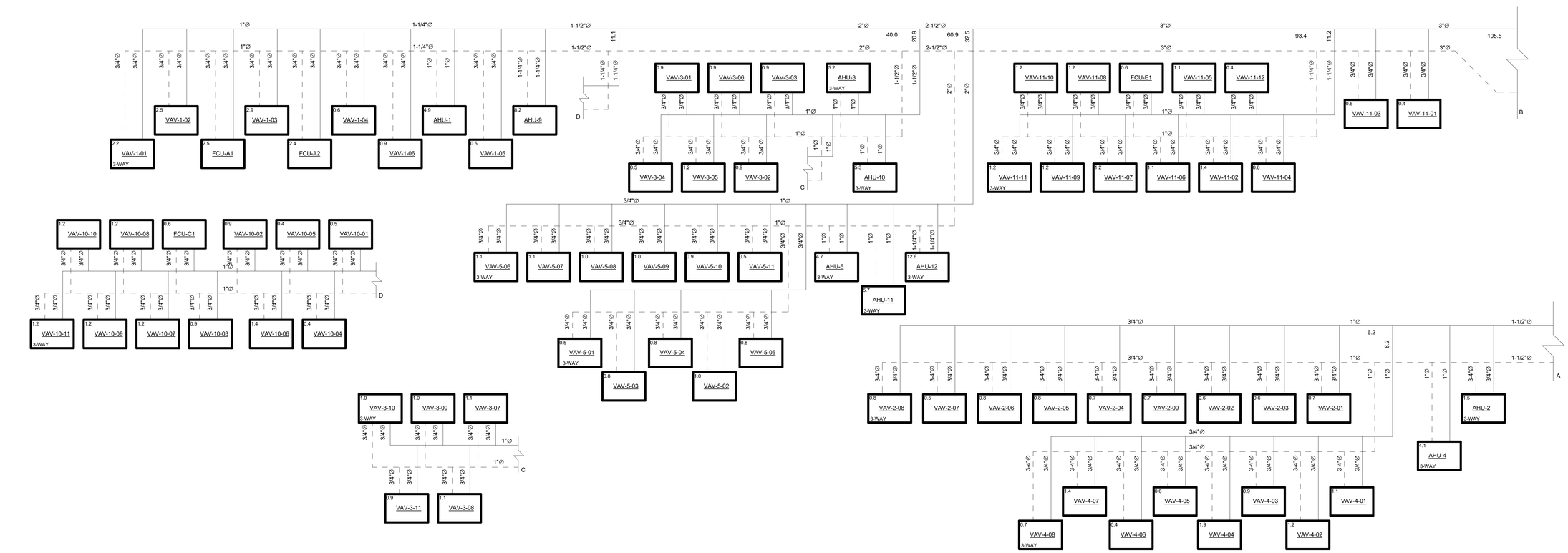
3. ALL VALVES TO BE TWO-WAY UNLESS NOTED OTHERWISE. (*PROVIDE THREE-WAY VALVE WHERE INDICATED)



1 M4.3 HEATING WATER RISER DIAGRAM
N.T.S.



2 M4.3 HOT WATER RISER DIAGRAM CONT
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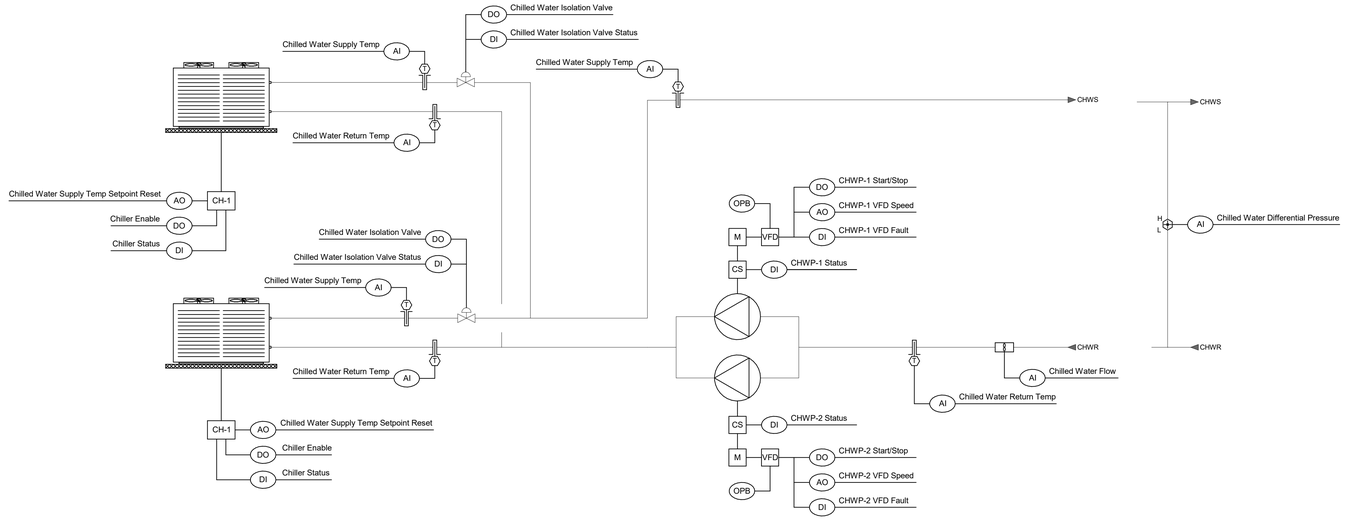

AIR COOLED CHILLER WITH VARIABLE PRIMARY PUMPS SEQUENCE OF OPERATIONS

AIR COOLED CHILLER WITH VARIABLE PRIMARY PUMPS SEQUENCE OF OPERATIONS

1. Chiller Run Conditions
   - 1.a. The chiller shall be enable to run whenever:
     - 1.a.1. A definable number of chilled water coils need cooling
   - 1.b. To prevent short cycling, the chiller shall run for and be off for minimum adjustable times (both user definable), unless shutdown on safeties or outside air conditions.
   - 1.c. The chiller shall run subject to its own internal safeties and controls.
2. Emergency Shutdown
   - 2.a. The chiller shall shut down and an alarm generated upon receiving an emergency shutdown signal status
3. Chilled Water Isolation Valve
   - 3.a. The valve shall open anytime the chiller is called to run. The valve shall also open whenever the chilled water pump runs for freeze protection.
   - 3.b. The valve shall open prior to the chiller being enabled and shall close only after the chiller is disabled. The valve shall therefore have:
     - 3.b.1. A user adjustable delay on start.
     - 3.b.2. AND a user adjustable delay on stop.
   - 3.c. The delay times shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.
   - 3.d. Alarms shall be provided as follows:
     - 3.d.1. Chilled Water Isolation Valve Failure: Valve commanded open but the status indicates closed.
     - 3.d.2. Chilled Water Isolation Valve Open in Hand: Valve commanded closed but the status indicates open.
     - 3.d.3. Chilled Water Isolation Valve Runtime Exceeded: Valve status runtime exceeds a user-definable limit.
4. Chilled Water Pump Lead/Standby Operation:
   - 4.a. The two chilled water pumps shall run anytime the chiller is called to run. The chilled water pump shall also run for freeze protection whenever the outside air temperature is less than a user definable setpoint (adj.).
   - 4.b. The lead pump shall start prior to the chilled being enabled and shall stop only after the chiller is disabled. The pump(s) shall therefore have:
     - 4.b.1. A user adjustable delay on start.
     - 4.b.2. AND a user adjustable delay on stop.
   - 4.c. The delay times shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.
   - 4.d. The two pumps shall operate in a lead/standby fashion.
     - 4.d.1. The lead pump shall run first.
     - 4.d.2. On failure of the lead pump, the standby pump shall run and the lead pump shall turn off.
   - 4.e. The designated lead pump shall rotate upon one of the following conditions (user selectable):
     - 4.e.1. manually through a software switch
     - 4.e.2. if pump runtime (adj.) is exceeded
     - 4.e.3. daily
     - 4.e.4. weekly
     - 4.e.5. monthly
   - 4.f. Alarms shall be provided as follows:
     - 4.f.1. Chilled Water Pump 1
       - 4.f.1.1. Failure: Commanded on, but the status is off.
       - 4.f.1.2. Running in Hand: Commanded off, but the status is on.
       - 4.f.1.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
       - 4.f.1.4. VFD Fault
     - 4.f.2. Chilled Water Pump 2
       - 4.f.2.1. Failure: Commanded on, but the status is off.
       - 4.f.2.2. Running in Hand: Commanded off, but the status is on.
       - 4.f.2.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
       - 4.f.2.4. VFD Fault
5. Chilled Water Differential Pressure Control:
   - 5.a. The controller shall measure chilled water differential pressure and modulate the lead chilled water pump VFD to maintain its chilled water differential pressure setpoint. The following setpoints are recommended values. All setpoints shall be field adjusted during the commissioning period to meet the requirements of actual field conditions.

     The controller shall modulate chilled water pump speed to maintain a chilled water differential pressure of 12 psi (adj.). The VFD minimum speed shall not drop below 10% (adj.).
   - 5.b. Alarms shall be provided as follows:
     - 5.b.1. High Chilled Water Differential Pressure: If the chilled water differential pressure is 25% (adj.) greater than setpoint.
     - 5.b.2. Low Chilled Water Differential Pressure: If the chilled water differential pressure is 25% (adj.) less than setpoint.
6. Chilled Water Bypass Valve - Minimum Flow Control
   - 6.a. The controller shall measure chilled water flow through the chiller and, as the chilled water flow drops below setpoint, the controller shall modulate the chilled water bypass valve open to maintain the minimum chilled water flow setpoint.
   - 6.b. Alarms shall be provided as follows:
     - 6.b.1. Low Chilled Water Flow: If the chilled water flow is 25% (adj.) less than setpoint.
7. Chillers:
   - 7.a. The chillers shall be enabled at a user adjustable time after pump status are proven on. The chiller shall therefore have a user adjustable delay on start.
   - 7.b. The delay time shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.
   - 7.c. The chiller shall run subject to its own internal safeties and controls.
   - 7.d. Lead Lag Chiller control staging
     - 7.d.1. The lead chiller shall operate until the system is continuing to call for cooling and the lead chiller is operating at 85% of it's capacity (adj.). At this point, the lag chiller shall be commanded on and run in unison with the lead chiller.
     - 7.d.2. If both the lead and lag chiller are operating at 30% capacity (adj.), the lag chiller shall be commanded off and the lead chiller shall operate solely.
   - 7.e. Alarms shall be provided as follows:
     - 7.e.1. Chiller Failure: Commanded on, but the status is off.
     - 7.e.2. Chiller Running in Hand: Commanded off, but the status is on.
     - 7.e.3. Chiller Runtime Exceeded: Status runtime exceeds a user definable limit.
8. Chilled Water Supply Temperature Setpoint:
   - 8.a. The chilled water supply temperature setpoint shall reset based on outside air temperature.
   - 8.b. As outside air temperature drops from 75°F (adj.) to 50°F (adj.) the chilled water supply temperature setpoint shall reset upwards by adding from 0°F (adj.) to 10°F (adj.) to the current setpoint.
9. Chilled Water Temperature Monitoring:
   - 9.a. The following temperatures shall be monitored:
     - 9.a.1. Chilled water supply
     - 9.a.2. Chilled water return
   - 9.b. Alarms shall be provided as follows:
     - 9.b.1. High Chilled Water Supply Temp: If the chilled water supply temperature is greater than 55°F (adj.)
     - 9.b.2. Low Chilled Water Supply Temp: If the chilled water supply temperature is less than 38°F (adj.)

1 M5.1 CONTROL DIAGRAM - CHILLER
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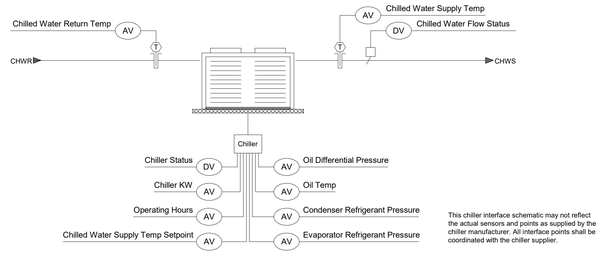

This chiller interface schematic may not reflect the actual sensors and points as supplied by the chiller manufacturer. All interface points shall be coordinated with the chiller supplier.

2 M5.1 CONTROL DIAGRAM - CHILLER - MANUFACTURER INTERFACE
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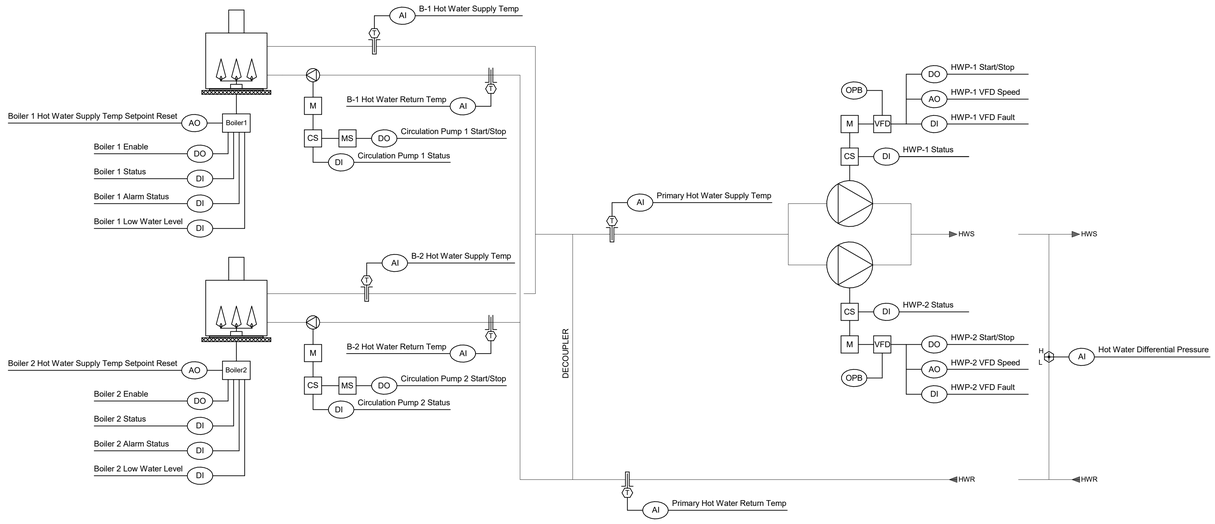


HOT WATER BOILER SYSTEM WITH LEAD/LAG PUMPS SEQUENCE OF OPERATIONS

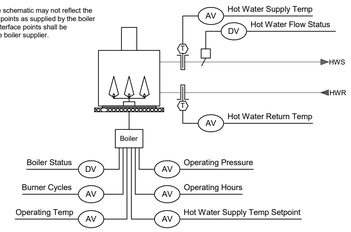
HOT WATER BOILER WITH LEAD/LAG PUMPS SEQUENCE OF OPERATIONS

1. Boiler Run Conditions
   - 1.a. The boiler shall be enabled to run whenever:
     - 1.a.1. A definable number of hot water coils need heating
     - 1.a.2. AND the outside air temperature is less than 65°F (adj.)
   - 1.b. To prevent short cycling, the boiler shall run for and be off for minimum adjustable times (both user definable), unless shutdown on safeties or outside air conditions.
   - 1.c. The boiler shall run subject to its own internal safeties and controls.
   - 1.d. The boiler shall also run for freeze protection whenever the outside air temperature is less than 38°F (adj.).
2. Boiler Safeties
   - 2.a. The following safeties shall be monitored:
     - 2.a.1. Boiler alarm
     - 2.a.2. Low water level
   - 2.b. The following alarms shall be provided:
     - 2.b.1. Boiler alarm
     - 2.b.2. Low water level alarm
3. Hot Water Pump Lead/Lag Operation:
   - 3.a. The two hot water pumps shall operate in a lead/lag fashion.
     - 3.a.1. The lead pump shall run first.
     - 3.a.1. On a failure of the lead pump, the lag pump shall run and the lead pump shall turn off.
     - 3.a.2. On decreasing hot water differential pressure, the lag pump shall stage on and run in unison with the lead pump to maintain hot water differential pressure setpoint.
   - 3.b. The designated lead pump shall rotate upon one of the following conditions (user selectable):
     - 3.b.1. manually through a software switch
     - 3.b.2. if pump runtime (adj.) is exceeded
     - 3.b.3. daily
     - 3.b.4. weekly
     - 3.b.5. monthly
   - 3.c. Alarms shall be provided as follows:
     - 3.c.1. Hot Water Pump 1
       - 3.c.1.1. Failure: Commanded on, but the status is off.
       - 3.c.1.2. Running in Hand: Commanded off, but the status is on.
       - 3.c.1.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
       - 3.c.1.4. VFD Fault
     - 3.c.2. Hot Water Pump 2
       - 3.c.2.1. Failure: Commanded on, but the status is off.
       - 3.c.2.2. Running in Hand: Commanded off, but the status is on.
       - 3.c.2.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
       - 3.c.2.4. VFD Fault
4. Hot Water Differential Pressure Control:
   - 4.a. The controller shall measure hot water differential pressure and modulate the hot water pump VFDs in sequence to maintain its hot water differential pressure setpoint. The following setpoints are recommended values. All setpoints shall be field adjusted during the commissioning period to meet the requirements of actual field conditions.

     The controller shall modulate hot water pump speeds to maintain a hot water differential pressure of 12 psi (adj.). The VFD minimum speed shall not drop below 20% (adj.).
   - 4.b. On dropping hot water differential pressure, the VFDs shall stage on and run to maintain setpoint as follows:
     - 4.b.1. The controller shall modulate the lead VFD to maintain setpoint.
     - 4.b.2. If the lead VFD speed is greater than a setpoint of 90% (adj.), the lag VFD shall stage on.
     - 4.b.3. The lag VFD shall ramp up to match the lead VFD speed and then run in unison with the lead VFD to maintain setpoint.
   - 4.c. On rising hot water differential pressure, the VFDs shall stage off as follows:
     - 4.c.1. If the VFDs speeds drops back to 60% (adj.) below setpoint, the lag VFD shall stage off.
     - 4.c.2. The lead VFD shall continue to run to maintain setpoint.
   - 4.d. Alarms shall be provided as follows:
     - 4.d.1. High Hot Water Differential Pressure: If 25% (adj.) greater than setpoint.
     - 4.d.2. Low Hot Water Differential Pressure: If 25% (adj.) less than setpoint.
5. Circulation Pump 1:
   - 5.a. The Circulation Pump 1 shall run anytime Boiler 1 is called to run and shall have a user definable delay (adj.) on stop.
   - 5.b. Alarms shall be provide as follows:
     - 5.b.1. Circulation Pump 1 Failure: Commanded on, but the status is off.
     - 5.b.2. Circulation Pump 1 Running in Hand: Commanded off, but the status is on.
     - 5.b.3. Circulation Pump 1 Runtime Exceeded: Status runtime exceeds a user-definable limit.
6. Circulation Pump 2:
   - 6.a. The Circulation Pump 2 shall run anytime Boiler 2 is called to run and shall have a user definable delay (adj.) on stop.
   - 6.b. Alarms shall be provided as follows:
     - 6.b.1. Circulation Pump 2 Failure: Commanded on, but the status is off.
     - 6.b.2. Circulation Pump 2 Running in Hand: Commanded off, the the status is on.
     - 6.b.3. Circulation Pump 2 Runtime Exceeded: Status runtime exceeds a user-definable limit.
7. Boiler Lead/Lag Operation:
   - 7.a. The two boilers shall operate in a lead/lag fashion.
     - 7.a.1. The lead boiler shall run first.
     - 7.a.2. On failure of the lead boiler, the lag boiler shall run and the lead boiler shall turn off.
     - 7.a.3. As hot water temperature drops below a setpoint of 150°F (adj.), the lag boiler shall stage on and run in unison with the lead boiler to maintain hot water temperature setpoint.
     - 7.a.4. As hot water temperature rises back to 20°F above setpoint, the lag boiler shall stage off.
   - 7.b. The designated lead boiler shall rotate upon one of the following conditions: (user selectable)
     - 7.b.1. manually through a software switch
     - 7.b.2. if boiler runtime (adj.) is exceeded
     - 7.b.3. daily
     - 7.b.4. weekly
     - 7.b.5. monthly
   - 7.c. Alarms shall be provided as follows:
     - 7.c.1. Boiler 1
       - 7.c.1.1. Failure: Commanded on, but the status is off.
       - 7.c.1.2. Running in Hand: Commanded off, but the status is on.
       - 7.c.1.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
     - 7.c.2. Boiler 2
       - 7.c.2.1. Failure: Commanded on, but the status is off.
       - 7.c.2.2. Running in Hand: Commanded off, but the status is on.
       - 7.c.2.3. Runtime Exceeded: Status runtime exceeds a user definable limit.
     - 7.c.3. Lead Boiler Failure: The lead boiler is in failure and the standby boiler is on.
8. Hot Water Supply Temperature Setpoint:
   - 8.a. The hot water supply temperature setpoint shall reset based on outside air temperature.
   - 8.b. As outside air temperature rises from 0°F (adj.) to 70°F (adj.) the hot water supply temperature setpoint shall reset downwards by subtracting from 0°F (adj.) to 20°F (adj.) from the current boiler setpoint.
9. Primary Hot Water Temperature Monitoring:
   - 9.a. The following temperatures shall be monitored:
     - 9.a.1. Primary hot water supply
     - 9.a.2. Primary hot water return
   - 9.b. Alarms shall be provided as follows:
     - 9.b.1. High Primary Hot Water Supply Temp: If greater than 200°F (adj.)
     - 9.b.2. Low Primary Hot Water Supply Temp: If less than 100°F (adj.)
10. Boiler 1 Hot Water Temperature Monitoring:
    - 10.a. The following temperatures shall be monitored:
      - 10.a.1. Boiler 1 hot water supply
      - 10.a.2. Boiler 1 hot water return
    - 10.b. Alarms shall be provided as follows:
      - 10.b.1. High Hot Water Supply Temp: If greater than 200°F (adj.)
      - 10.b.2. Low Hot Water Supply Temp: If less than 100°F (adj.)
11. Boiler 2 Hot Water Temperature Monitoring:
    - 11.a. The following temperatures shall be monitored:
      - 11.a.1. Boiler 2 hot water supply
      - 11.a.2. Boiler 2 hot water return
    - 11.b. Alarms shall be provided as follows:
      - 11.b.1. High Hot Water Supply Temp: If greater than 200°F (adj.)
      - 11.b.2. Low Hot Water Supply Temp: If less than 100°F (adj.)
      - 11.b.3.

1 M5.2 CONTROL DIAGRAM - BOILER
N.T.S.

This boiler interface schematic may not reflect the actual sensors and points as supplied by the boiler manufacturer. All interface points shall be coordinated with the boiler supplier.



2 M5.2 CONTROL DIAGRAM - BOILER - MANUFACTURER INTERFACE
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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MECHANICAL CONTROL DIAGRAMS

VOLUME 2

Job No.	Sheet No.
00802-04-01	M5.2
Drawn By: MBP	
Date: 07.15.2026	

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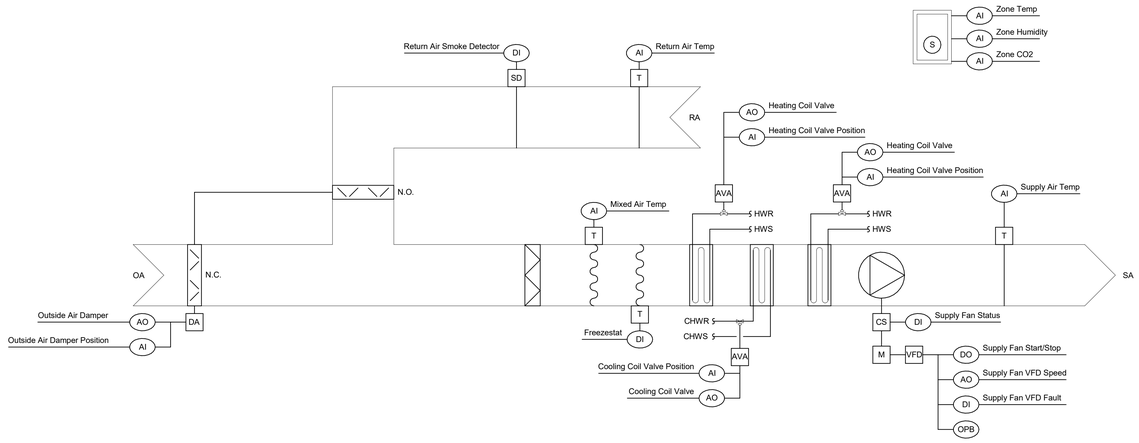
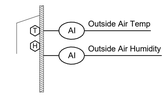


SINGLE ZONE AIR HANDLING UNIT SEQUENCE OF OPERATIONS
SINGLE ZONE AIR HANDLING UNIT SEQUENCE OF OPERATION: 1. Run Conditions - Requested: 1.a.1. Occupied Mode: The unit shall maintain 1.a.1.1. Space cooling setpoint: 75°F (adj) 1.a.1.2. Space heating setpoint: 70°F (adj) 2. Freeze Protection: 2.a. The unit shall shut down and generate an alarm upon receiving a freezestat status. 3. High Static Shutdown: 3.a. The unit shall shut down and generate an alarm upon receiving a high static shutdown signal. 4. Return Air Smoke Detection: 4.a. The unit shall shut down and generate an alarm upon receiving a return air smoke detector status. 5. AHU Optimal Start 5.a. The unit shall start prior to scheduled occupancy based on the time necessary for the zones to reach their occupied setpoints. The start time shall automatically adjust based on changes in outside air temperature and zone temperatures. 6. Supply Fan: 6.a. The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime. 6.b. Alarms shall be provided as follows: 6.b.1. Supply Fan Failure: Commanded on, but the status is off. 6.b.2. Supply Fan in Hand: Commanded off, but the status is on. 6.b.3. Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.) 6.c. Alarms shall be provided as follows: 6.c.1. High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint. 6.c.2. Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint. 6.c.3. Supply Fan VFD Fault. 7. Preheating coil valve: 7.a.1. The controller shall measure the zone temperature and modulate the preheating coil valve to maintain its heating setpoint. The Heating shall be enabled whenever: 7.a.1.1. Outside air temperature is less than 65°F (adj) 7.a.1.2. AND the zone temperature is below heating setpoint. 7.a.1.3. AND the supply fan is on and status proven. 7.b. Freeze protection 7.a.1. The heating coil valve shall open whenever: 7.a.1.1. Supply air temperature drops from 40°F to 35°F (adj.) 7.a.1.2. OR the freezestat (if present) is on. 7.a.2. Alarms shall be provided as follows: 7.a.2.1. Low Supply Air Temp: If the supply air temperature is 5°F (adj.) less than setpoint. 8. Supply Air Temperature Setpoint - Fixed: 8.b. The controller shall monitor the supply air temperature and shall maintain fixed supply air temperature setpoint as follows: 8.b.1. Cooling: The setpoint shall be 55°F (adj.) 8.b.2. Heating: The setpoint shall be 95°F (adj.) whenever the return air temperature drops below 68°F (adj.) 9. Cooling Coil Valve: 9.a. The controller shall measure the supply air temperature and modulate the cooling coil valve to maintain its cooling setpoint. The cooling shall be enabled whenever: 9.a.1. Outside air temperature is greater than 60°F (adj.) 9.a.2. AND the economizer (if present) is disabled or fully open 9.a.3. AND the supply fan status is on 9.a.4. AND the heating (if present) is not active 9.b. The cooling coil valve shall open to 50% (adj.) whenever the freezestat (if present) is on. 9.c. Alarms shall be provided as follows: 9.c.1. High Supply Air Temp: If the supply air temperature is 5°F (adj.) greater than setpoint 10. Re-heating Coil Valve: 10.a. The controller shall measure the supply air temperature and humidity for dehumidification control. The heating shall be enabled whenever: 10.a.1. Humidity measurement is above setpoint 55% RH (adj.) 10.a.2. AND the supply fan status is on. 10.a.3. AND the cooling (if present) is not active. 11. Demand control ventilation: 11.a. When in the occupied mode, the controller shall measure the retrn air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damer operation to maintain a CO2 setpoint of 1800 ppm (adj.). 12. Mixed Air Temperature 12.a. The controller shall monitor the mixed air temperature and use as required for economizer control (if present) or preheating control (if present). 12.b. Alarms shall be provided as follows: 12.b.1. High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.) 12.b.2. Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.) 13. Return Air Humidity: 13.a. The controller shall monitor the return air humidity and use as required for economizer control (if present) or humidity control (if present). 13.b. Alarms shall be provided as follows: 13.b.1. High Return Air Humidity: If the return air humidity is greater than 70% (adj.) 13.b.2. Low Return Air Humidity: If the return air humidity is less than 35% (adj.) 14. Return Air Temperature 14.a. The controller shall monitor the return air temperature and use as required for setpoint control or economizer control (if present). 14.b. Alarms shall be provided as follows: 14.b.1. High Return Air Temp: If the return air temperature is greater than 90°F (adj.) 14.b.2. Low Return Air Temp: If the return air temperature is less than 45°F (adj.) 15. Supply Air Temperature 15.a. The controller shall monitor the supply air temperature 15.b. Alarms shall be provided as follows: 15.b.1. High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.). 15.b.2. Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

1 M5.3 CONTROL DIAGRAM - HYDRONIC SINGLE ZONE AHU
N.T.S.



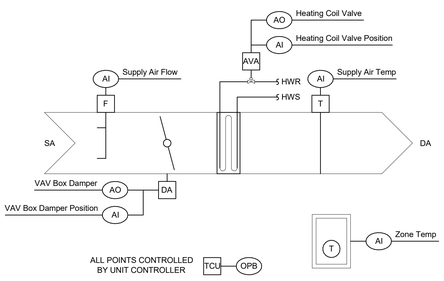


OUTSIDE AIR CONDITIONS SEQUENCE OF OPERATIONS
OUTSIDE AIR CONDITIONS SEQUENCE OF OPERATIONS 1. Outside Air Conditions 1.a. The controller shall monitor the outside are temperature and humidity and calculate the outside air enthalpy on a continual basis. These values shall be made available to the system at all times. 1.b. Alarms shall be generated as follows: 1.b.1. Sensor Failure: Sensor reading indicates shorted or disconnected sensor. In the event of a sensor failure, an alternate outside air conditions sensor shall be made available to the system without interruption in sensor readings. 1.c. If an OA Temp Sensor cannot be read, a default value of 65°F will be used 1.d. If an OA Humidity Sensor cannot be read, a default value of 50% will be used 2. Outside Air Temperature History 2.a. The controller shall monitor and record the high and low temperature readings for the outside air. These readings shall be recorded on a daily, month-to-date, and year-to-date basis.

MDF/IDF/ELEC ROOMS
MDF/IDF/ELEC ROOMS 1. BMS shall provide secondary thermostat in each room indicated and monitor the zone temperature 2. Provide high temp alarm when zone temp exceeds setpoint 85F (adj.)

ADDITIONAL CONTROL POINTS
1. BMS shall monitor water heater and circ pump status. 2. BMS shall provide occupancy and schedules for lighting controls as noted by the electrical documents 3. BMS shall provide power for single duct VAV boxes from local controllers. 4. BMS shall provide monitoring/alarms for generator as noted by the electrical documents

2 M5.3 CONTROL DIAGRAM - ADDITIONAL CONTROL POINTS
N.T.S.



SINGLE DUCT VAV BOX WITH HOT WATER REHEAT SEQUENCE OF OPERATIONS
SINGLE DUCT VAV BOX WITH SUPPLEMENTAL HEAT SEQUENCE OF OPERATION 1. Run Conditions: The unit shall run according to a user definable time schedule in the following modes: 1.a. Occupied Mode: The unit shall maintain 1.a.1. A 75°F (adj.) cooling setpoint 1.a.2. A 70°F (adj.) heating setpoint 1.b. Unoccupied Mode (night setback): The unit shall maintain 1.b.1. A 85°F (adj.) cooling setpoint 1.b.2. A 55°F (adj.) heating setpoint 1.c. Alarms shall be provided as follows: 1.c.1. High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.) 1.c.2. Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.) 2. Zone Optimal Start: 2.a. The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period. 3. Reversing Variable Volume Terminal Unit - Flow Control: 3.a. The unit shall maintain zone setpoints by controlling the airflow through one of the following: 3.b. Occupied: 3.b.1. When zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied. 3.b.2. When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.) 3.b.3. When zone temperature is less than its heating setpoint, the controller shall enable heating to maintain the zone temperature at its heating setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum heating airflow (adj.) until the zone is satisfied. 3.c. Unoccupied: 3.c.1. When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.) 3.c.2. When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied. 3.c.3. When zone temperature is less than its unoccupied heating setpoint, the controller shall enable heating to maintain the zone temperature at the setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the auxiliary heating airflow (Adj.) until the zone is satisfied. 4. Reheating Coil Valve 4.a. The controller shall measure the zone temperature and modulate the reheating coil valve open on dropping temperature to maintain its heating setpoint. 4.b. When cold air is available from the AHU and there is no fan present in the box, the zone damper shall modulate to the minimum occupied airflow (adj.). If more heat is required, the zone damper shall modulate to the auxiliary heating airflow (adj.). 5. Discharge Air Temperature: 5.a. The controller shall monitor the discharge air temperature. 5.b. Alarms shall be provided as follows: 5.b.1. High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.) 5.b.2. Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.) *SINGLE DUCT VAV BOXES POWERED THRU DDC PANEL CONTROL VOLTAGE

3 M5.3 CONTROL DIAGRAM - SD VAV HW REHEAT
N.T.S.

Revision / Date

Project:
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FOR
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TOMBALL, TEXAS

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MECHANICAL CONTROL DIAGRAMS

VOLUME 2

Job No. 00802-04-01	Sheet No. M5.3
Drawn By: MBP	
Date: 07.15.2026	

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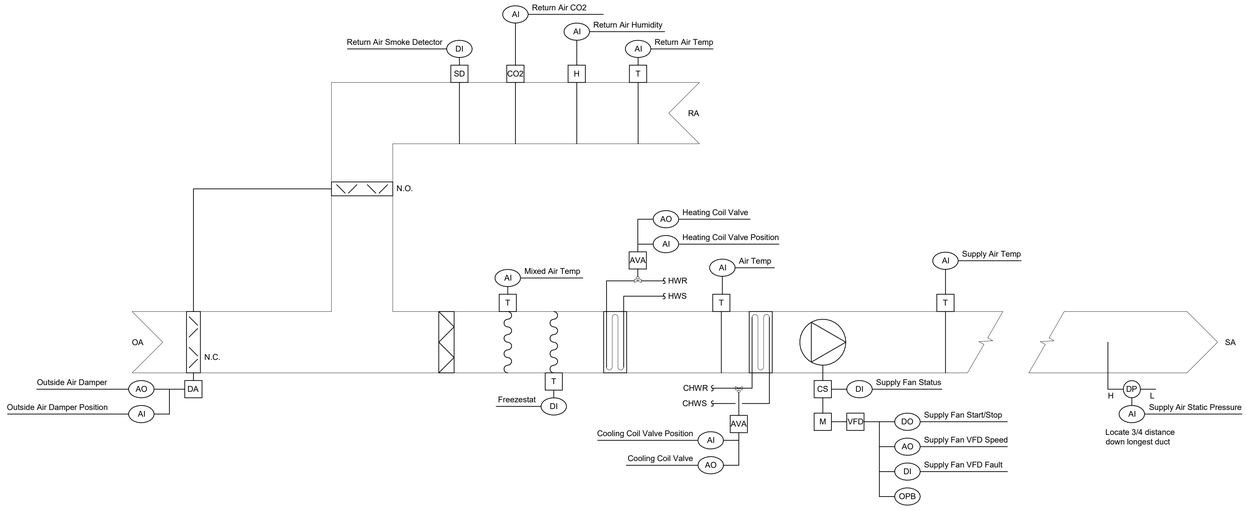
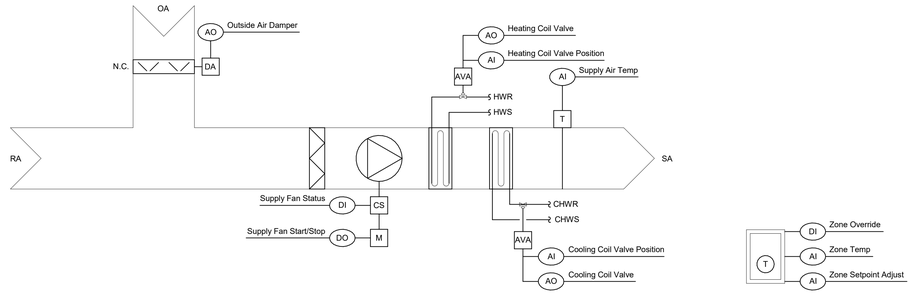




VARIABLE AIR VOLUME AIR HANDLING UNIT SEQUENCE OF OPERATIONS

VARIABLE AIR VOLUME AIR HANDLING UNIT SEQUENCE OF OPERATION:

1. Run Conditions - Requested:
   - 1.a. The unit shall run whenever
     - 1.a.1. Any zone is occupied
     - 1.a.2. OR a definable number of unoccupied zones need heating or cooling
2. Emergency Shutdown:
   - 2.a. The unit shall shut down and generate an alarm upon receiving an emergency shutdown signal.
3. Freeze Protection:
   - 3.a. The unit shall shut down and generate an alarm upon receiving a freezestat status.
4. High Static Shutdown:
   - 4.a. The unit shall shut down and generate an alarm upon receiving a high static shutdown signal.
5. Return Air Smoke Detection:
   - 5.a. The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
6. AHU Optimal Start
   - 6.a. The unit shall start prior to scheduled occupancy based on the time necessary for the zones to reach their occupied setpoints. The start time shall automatically adjust based on changes in outside air temperature and zone temperatures.
7. Supply Fan:
   - 7.a. The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.
   - 7.b. Alarms shall be provided as follows:
     - 7.b.1. Supply Fan Failure: Commanded on, but the status is off.
     - 7.b.2. Supply Fan in Hand: Commanded off, but the status is on.
     - 7.b.3. Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.)
8. Supply Air Duct Static Pressure Control:
   - 8.a. The controller shall measure duct static pressure and modulate the supply fan VFD speed to maintain a duct static pressure setpoint. The speed shall not drop below 30% (adj.). The static pressure setpoint shall be reset based upon the position of the zone dampers, with a goal of reducing the static pressure until at least one zone damper is nearly wide open.
     - 8.a.1. The initial duct static pressure setpoint shall be 1.5 in. H2) (adj.)
     - 8.a.2. If no zone damper is nearly wide open, the setpoint shall incrementally reset down to a minimum of 1.3 in H2O (adj.).
     - 8.a.3. As one or more dampers nears the wide open position, the setpoint shall incrementally reset up to a maximum of 1.8 in H2O (adj.).
   - 8.b. Alarms shall be provided as follows:
     - 8.b.1. High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
     - 8.b.2. Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
     - 8.b.3. Supply Fan VFD Fault.
9. Supply Air Temperature Setpoint - Fixed:
   - 9.a. The controller shall monitor the supply air temperature and shall maintain fixed supply air temperature setpoint as follows:
     - 9.a.1. Cooling: The setpoint shall be 55°F (adj.)
     - 9.a.2. Heating: The setpoint shall be 95°F (adj.) whenever the return air temperature drops below 68°F (adj.)
10. Cooling Coil Valve:
   - 10.a. The controller shall measure the supply air temperature and modulate the cooling coil valve to maintain its cooling setpoint. The cooling shall be enabled whenever:
     - 10.a.1. Outside air temperature is greater than 60°F (adj.)
     - 10.a.2. AND the economizer (if present) is disabled or fully open
     - 10.a.3. AND the supply fan status is on
     - 10.a.4. AND the heating (if present) is not active
   - 10.b. The cooling coil valve shall open to 50% (adj.) whenever the freezestat (if present) is on.
   - 10.c. Alarms shall be provided as follows:
     - 10.c.1. High Supply Air Temp: If the supply air temperature is 5°F (adj.) greater than setpoint
11. Heating Coil Valve:
   - 11.a. The controller shall measure the supply air temperature and modulate the heating coil valve to maintain its heating setpoint. The heating shall be enabled whenever:
     - 11.a.1. Outside air temperature is less than 65°F (adj.)
     - 11.a.2. AND the supply fan status is on.
     - 11.a.3. AND the cooling (if present) is not active.
   - 11.b. The heating coil valve shall open whenever:
     - 11.b.1. Supply air temperature drops from 40°F to 35°F (adj.)
     - 11.b.2. OR the freezestat (if present) is on.
   - 11.c. Alarms shall be provided as follows:
     - 11.c.1. Low Supply Air Temp: If the supply air temperature is 5°F (adj.) less than setpoint.
12. Demand Control Ventilation:
   - 12.a. When in the occupied mode, the controller shall measure the retrn air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damer operation to maintain a CO2 setpoint of 1800 ppm (adj.).
13. Mixed Air Temperature
   - 13.a. The controller shall monitor the mixed air temperature and use as required for economizer control (if present) or preheating control (if present).
   - 13.b. Alarms shall be provided as follows:
     - 13.b.1. High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.)
     - 13.b.2. Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.)
14. Return Air Humidity:
   - 14.a. The controller shall monitor the return air humidity and use as required for economizer control (if present) or humidity control (if present).
   - 14.b. Alarms shall be provided as follows:
     - 14.b.1. High Return Air Humidity: If the return air humidity is greater than 70% (adj.)
     - 14.b.2. Low Return Air Humidity: If the return air humidity is less than 35% (adj.)
15. Return Air Temperature
   - 15.a. The controller shall monitor the return air temperature and use as required for setpoint control or economizer control (if present).
   - 15.b. Alarms shall be provided as follows:
     - 15.b.1. High Return Air Temp: If the return air temperature is greater than 90°F (adj.)
     - 15.b.2. Low Return Air Temp: If the return air temperature is less than 45°F (adj.)
16. Supply Air Temperature
   - 16.a. The controller shall monitor the supply air temperature
   - 16.b. Alarms shall be provided as follows:
     - 16.b.1. High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
     - 16.b.2. Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

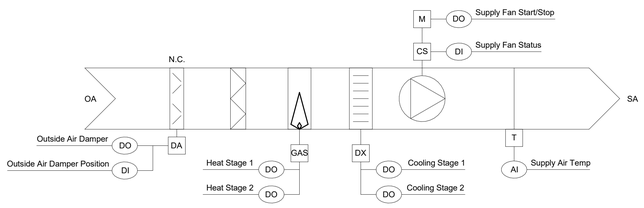
UNIT VENTILATOR / FAN COIL UNIT SEQUENCE OF OPERATIONS

UNIT VENTILATOR / 4-PIPE FAN COIL UNIT SEQUENCE OF OPERATION:

1. Run Conditions: The unit shall run according to a user definable time schedule in the following modes:
   - 1.a. Occupied Mode: The unit shall maintain
     - 1.a.1. Space Cooling Setpoint: 75°F (adj.)
     - 1.a.2. Space Heating Setpoint: 70°F (adj.)
   - 1.b. Unoccupied Mode: The unit shall maintain
     - 1.b.1. Space Cooling Setpoint: 85°F (adj.)
     - 1.b.2. Space Heating Setpoint: 55°F (adj.)
2. Alarms shall be provided as follows:
   - 2.a. High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.)
   - 2.b. Low Zone Temp: If the zone temperature is lower than the heating setpoint by a user definable amount (adj.)
3. Zone Setpoint Adjust
   - 3.a. The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.
4. Zone Optimal Start
   - 4.a. The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.
5. Zone Unoccupied Override
   - 5.a. A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.
6. Smoke Detection (For units greater than 2,000 CFM)
   - 6.a. The unit shall shut down and generate an alarm upon receiving a smoke detector status.
7. Supply Fan
   - 7.a. The fan shall run anytime the unit is commanded to run, unless shutdown on safeties. The fan speeds shall automatically be indexed as follows
     - 7.a.1. Low speed shall run anytime the zone temperature is within setpoints.
     - 7.a.2. High speed shall run anytime the zone temperature is outside of setpoints.
   - 7.b. The controller shall monitor the fan status. Alarms shall be provided as follows:
     - 7.b.1. Fan Failure: Commanded on, but the status is off
     - 7.b.2. Fan in Hand: Commanded off, the the status is on
8. Cooling Coil Valve:
   - 8.a. The controller shall measure the zone temperature and modulate the cooling coil valve to maintain its cooling setpoint. The cooling shall be enabled whenever:
     - 8.a.1. Outside air temperature is greater than 60°F (adj.)
     - 8.a.2. AND the zone temperature is above cooling setpoint
     - 8.a.3. AND the fan is on
9. Heating Coil Valve:
   - 9.a. The controller shall measure the zone temperature and modulate the heating coil valve to maintain its heating setpoint. The heating shall be enabled whenever:
     - 9.a.1. Outside air temperature is less than 65°F (adj.)
     - 9.a.2. AND the zone temperature is below heating setpoint
     - 9.a.3. AND the fan is on
10. Heating - High Discharge Air Temperature Limit:
   - 10.a. The controller shall measure the discharge air temperature and, on rising temperature, limit the heating as follows:
     - 10.a.1. As the discharge air temperature rises from 90°F to 120°F (adj.)
     - 10.a.2. The controller shall limit the heating output from 100% to 0% (adj.)
11. Outside Air Damper:
   - 11.a. The outside air damper shall open to provide a fixed percentage outside air ventilation anytime the unit is in occupied mode. The damper open position shall be set during testing and balancing. The outside air damper shall closed when the unit is off or in unoccupied mode.
12. Discharge Air Temperature
   - 12.a. The controller shall monitor the discharge air temperature.
   - 12.b. Alarms shall be provided as follows:
     - 12.b.1. High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.)
     - 12.b.2. Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.)
13. Fan Status
   - 13.a. The controller shall monitor the fan status
   - 13.b. Alarms shall be provided as follows:
     - 13.b.1. Fan Failure: Commanded on, but the status is off.
     - 13.b.2. Fan in Hand: Commanded off, but the status is on.
     - 13.b.3. Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

1 M5.4 CONTROL DIAGRAM - HYDRONIC VAV AHU
N.T.S.

2 M5.4 CONTROL DIAGRAM - FAN COIL UNIT
N.T.S.

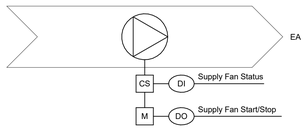


MAKEUP AIR UNIT SEQUENCE OF OPERATIONS

MAKEUP AIR UNIT SEQUENCE OF OPERATIONS

1. Run Conditions
   - 1.a. The unit shall be interlocked to run whenever the associated kitchen exhaust fan runs unless shutdown on safeties.
2. Emergency Shutdown
   - 2.a. The unit shall shut down and generate an alarm upon receiving an emergency shutdown signal.
3. Outside Air Damper
   - 3.a. The outside air damper shall open anytime the unit runs and shall close anytime the unit stops. The supply fan shall start only after the damper status has proven the damper is open. The outside air damper shall close 4 sec (adj.) after the supply fan stops.
   - 3.b. Alarms shall be provided as follows:
     - 3.b.1. Outside Air Damper Failure: Commanded open, but the status is closed.
     - 3.b.2. Outside Air Damper in Hand: Commanded closed, but the status is open.
4. Supply Fan
   - 4.a. The supply fan shall run anytime the unit is commanded to run. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime, unless shutdown on safeties.
   - 4.b. Alarms shall be provided as follows:
     - 4.b.1. Supply Fan Failure: Commanded on, but the status is off.
     - 4.b.2. Supply Fan in Hand: Commanded off, but the status is on.
     - 4.b.3. Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.)
5. Supply Air Temperature Setpoint - Fixed
   - 5.a. The controller shall monitor the supply air temperature and shall maintain a fixed supply air temperature setpoint of 80°F (adj.)
6. Cooling Stages
   - 6.a. The controller shall measure the supply air temperature and stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.
   - 6.b. The cooling shall be enabled whenever:
     - 6.b.1. Outside air temperature is greater than 60°F (adj.)
     - 6.b.2. AND the supply air temperature is above cooling setpoint.
     - 6.b.3. AND the fan status is on
7. Gas Heating Stages
   - 7.a. The controller shall measure the supply air temperature and stage the heating to maintain its heating setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.
   - 7.b. The heating shall be enabled whenever:
     - 7.b.1. Outside air temperature is less than 65°F (adj.)
     - 7.b.2. AND the supply air temperature is below heating setpoint.
     - 7.b.3. AND the fan status is on.
8. Supply Air Temperature
   - 8.a. The controller shall monitor the supply air temperature.
   - 8.b. Alarms shall be provided as follows:
     - 8.b.1. High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.)
     - 8.b.2. Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.)

3 M5.4 CONTROL DIAGRAM - MAKEUP AIR UNIT
N.T.S.



EXHAUST FAN SEQUENCE OF OPERATIONS

Occupancy Sensor - Fan shall be interlocked to occupancy sensor and/or light switch. Fan shall operate when lights/occupancy sensor are on and shall turn off when the lights/occupancy sensor are off. DDC contractor to monitor status only. Fan start/stop to be mechanical interlock as described

Local Switch - Fan shall operate when local switch is engaged and shall be off when the switch is off. DDC contractor to monitor status only. Fan start/stop to be mechanical interlock as described

Continuous - Fan shall operate continuously.

Scheduled - Fan shall operate according to a user definable schedule through the building BMS system.

Interlock: Kitchen Hood - Fan shall be controlled by food service controller.

4 M5.4 CONTROL DIAGRAM - EXHAUST FAN
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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MECHANICAL CONTROL DIAGRAMS

VOLUME 2

Job No. 00802-04-01
Sheet No. M5.4
Drawn By: MBP
Date: 07.15.2026

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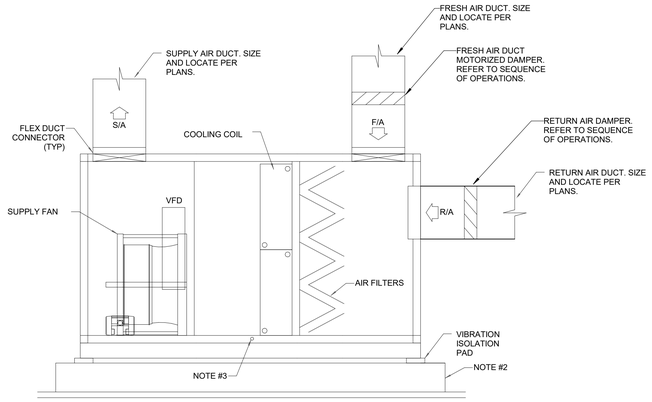
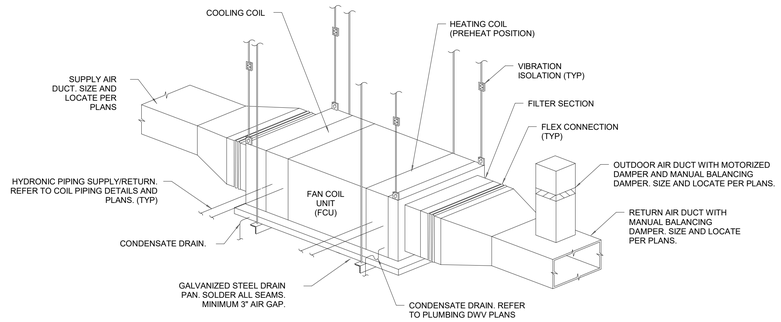


NOTES:

1. REFER TO DRAWINGS FOR EXACT DUCT CONFIGURATION.
2. MOUNT UNIT ON 4-IN. CAST-IN-PLACE CONCRETE EQUIPMENT BASE.
3. CONDENSATE DRAIN CONNECTION. REFER TO PLUMBING PLANS.
4. REFER TO DRAWINGS FOR UNIT ORIENTATION/HANDEDNESS

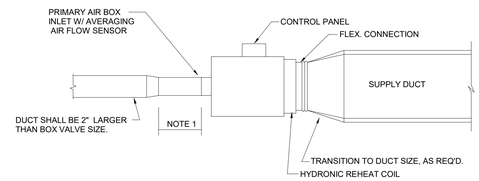
1 M6.1 TYPICAL INDOOR HYDRONIC AHU DETAIL
N.T.S.



NOTES:

1. REFER TO DRAWINGS FOR EXACT DUCT CONFIGURATION.
2. PROVIDE SUPPORTS PER MANUFACTURER'S IOM WITH VIBRATION ISOLATION.
3. REFER TO PLUMBING DWV PLANS FOR ALL CONDENSATE ROUTING AND SIZING.

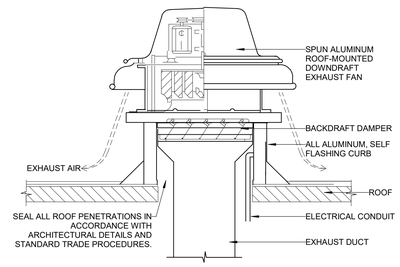
2 M6.1 TYPICAL SUSPENDED HYDRONIC FAN COIL UNIT DETAIL
N.T.S.



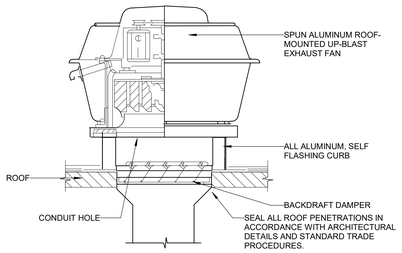
NOTES:

1. DUCT CONNECTION TO BE SAME SIZE AS INLET. WITH A MINIMUM STRAIGHT SECTION OF 3Ø OR AS RECOMMENDED BY MANUFACTURER.
2. SUPPORT BOX FROM STRUCTURE WITH ALL THREAD RODS.

3 M6.1 TYPICAL SDVAV TERMINAL BOX WITH HYDRONIC HEAT
N.T.S.



4 M6.1 TYPICAL DOWNBLAST EXHAUST FAN DETAIL
N.T.S.



5 M6.1 TYPICAL UPBLAST EXHAUST FAN DETAIL
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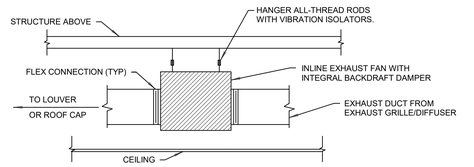

6 M6.1 TYPICAL SUSPENDED INLINE EXHAUST FAN DETAIL
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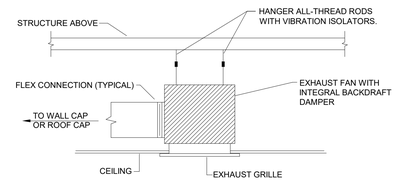

7 M6.1 TYPICAL CEILING MOUNTED EXHAUST FAN DETAIL
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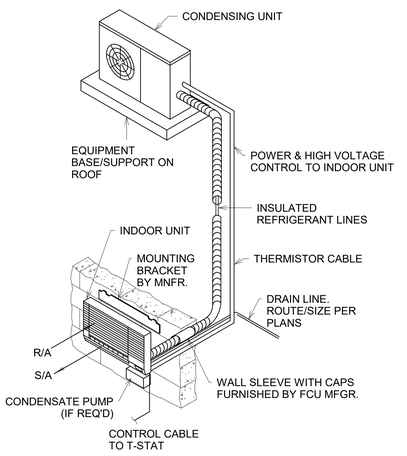

8 M6.1 TYPICAL DUCTLESS SPLIT AC DETAIL
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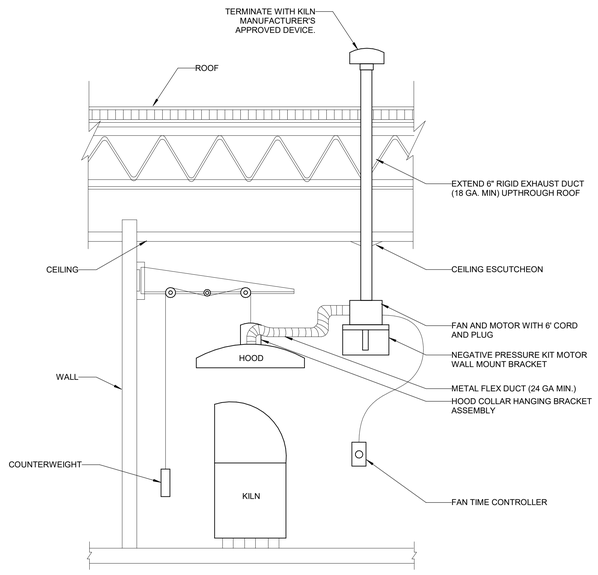

9 M6.1 TYPICAL VENT-A-KILN VENTILATION SYSTEM DETAIL
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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MECHANICAL DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	M6.1
Drawn By: MBP	
Date: 07.15.2026	

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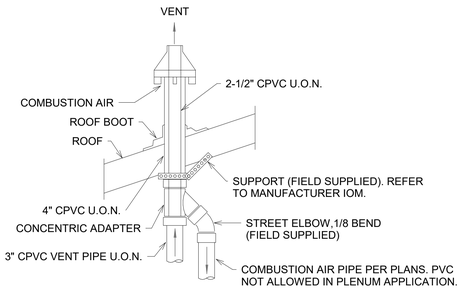
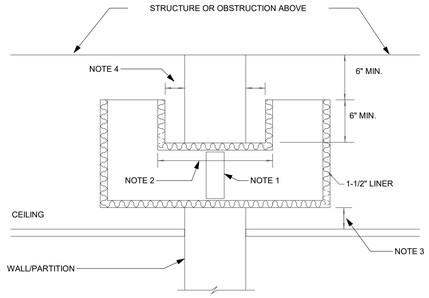


1 M6.2 CONCENTRIC VENT KIT DETAIL
N.T.S.

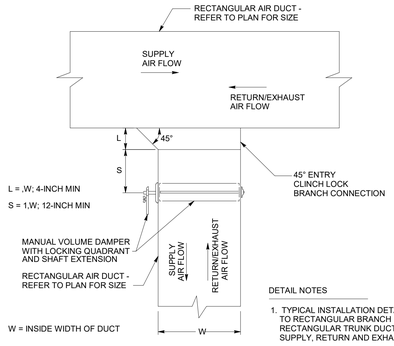


PLAN INDICATION (NOTE 5)	
OPENINGS FACING PLENUM	OPENINGS FACING DECK

NOTES

1. INSTALL FIRE DAMPER FOR ANY PENETRATIONS THROUGH A FIRE RATED WALL. PROVIDE ACCESS DOOR IN CEILING AND TRANSFER ASSEMBLY.
2. STRAIGHT LENGTH OF ASSEMBLY SHALL BE A MINIMUM OF 4 EQUIVALENT DUCT DIAMETERS.
3. COORDINATE EXACT HEIGHT ABOVE CEILING WITH LIGHTS AND OTHER CEILING ELEMENTS. MINIMUM CLEARANCE ABOVE CEILING SHALL BE 2-IN UNLESS OTHERWISE NOTED.
4. MAINTAIN ENOUGH CLEARANCE ON EITHER SIDE OF THE WALL/PARTITION TO NOT HAVE DIRECT CONTACT BETWEEN WALL/PARTITION AND DUCT.
5. ASSEMBLY MAY BE INSTALLED WITH TRANSFER DUCT OPENINGS ORIENTED FACING THE ROOF DECK OR FACING INTO THE PLENUM SPACE WHERE CLEARANCE ABOVE IS LIMITED.

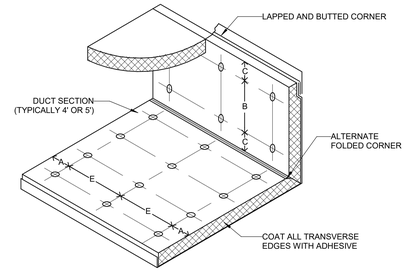
2 M6.2 TRANSFER AIR ASSEMBLY DETAIL
N.T.S.



DETAIL NOTES

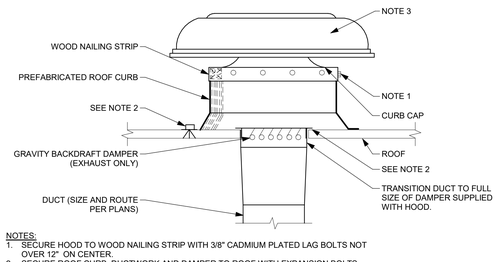
1. TYPICAL INSTALLATION DETAIL TO BE APPLIED TO RECTANGULAR BRANCH DUCT TAKEOFFS FROM RECTANGULAR TRUNK DUCTS. APPLIES TO SUPPLY, RETURN AND EXHAUST AIR DUCTS.

3 M6.2 TYPICAL RECTANGULAR BRANCH TAKEOFF
N.T.S.



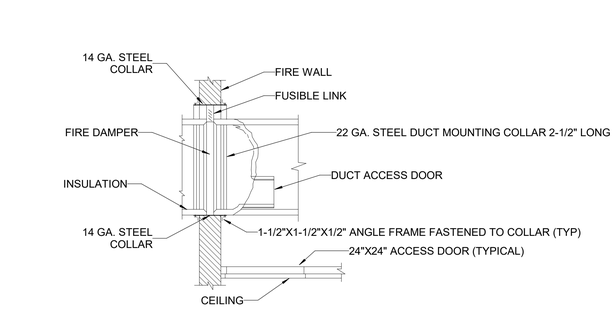
NOTES:
1. LINER ADHERED TO THE DUCT WITH 90% MIN. AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF LINER MUST FACE THE AIR FLOW.
3. MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE.

4 M6.2 TYPICAL DUCT LINER DETAIL
N.T.S.



NOTES:
1. SECURE HOOD TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK & BAR JOIST ROOF).
3. FACTORY ASSEMBLED HINGED HOOD WITH LATCH AND BIRD SCREEN LOREN COOK PR OR EQUAL. THE SPUN ALUMINUM STRUCTURAL COMPONENTS SHALL BE CONSTRUCTED OF MINIMUM 16 GUAGE MARINE ALLOY ALUMINUM BOLTED TO A RIGID ALUMINUM SUPPORT STRUCTURE.

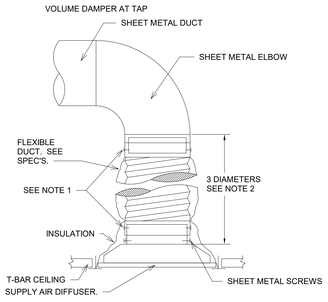
5 M6.2 TYPICAL EXHAUST/OUTSIDE AIR OUTLET/INTAKE DETAIL
N.T.S.



NOTES:

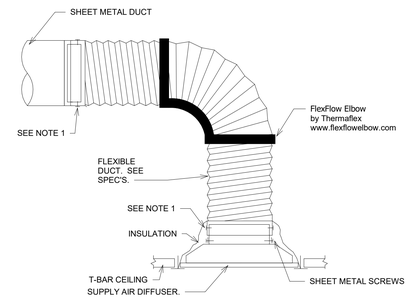
1. CLEAR OPENING OF FIRE DAMPER TO BE SAME DIMENSIONS AS DUCT.
2. REFER TO SMACNA STANDARDS AND NFPA 90A FOR ADDITIONAL INFORMATION
3. FRICTION FIT DUCT CONNECTION TO DUCT MOUNTING COLLAR USING 'Z' CLIPS WITH NO SCREWS.

6 M6.2 TYPICAL FIRE-DAMPER IN DUCT THROUGH WALL INSTALLATION DETAIL
N.T.S.



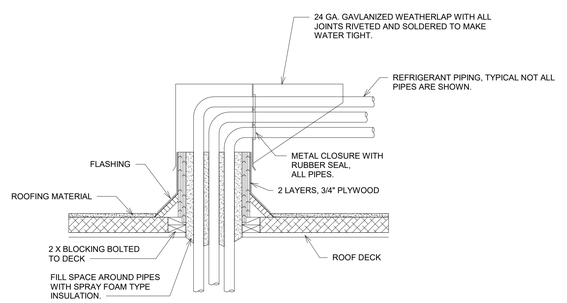
NOTES:
1. USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT , USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
2. SECURE SHEET METAL DROP TO DIFFUSER NECK WITH A MIN. OF (3) SHEET METAL SCREWS AND (2) FULL WRAPS OF TAPE PER UL REQUIREMENTS LISTED IN NOTE 1.
3. ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.

7 M6.2 TYPICAL FLEXDUCT CONNECTIONS
N.T.S.

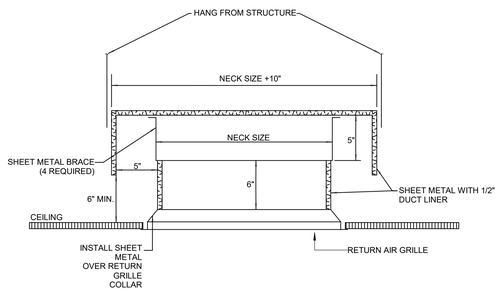


NOTES:
1. USE PLENUM COLLARS TO ATTACH FLEXIBLE DUCT , USE SHEET METAL SCREWS AND (2) WRAPS OF TAPE TO SECURE PLENUM COLLARS. ALTERNATE METHOD: BANDING DEVICE OR PANDUIT STRAP, IN LIEU OF SHEET METAL SCREWS. ALL TAPES AND SEALING MATERIALS SHALL COMPLY WITH UL181A FOR RIGID DUCT AND UL181B FOR FLEXIBLE DUCT.
2. IF A MINIMUM OF 2 DIAMETERS OF STRAIGHT RUN IS NOT AVAILABLE ABOVE THE REGISTER USE HARD DUCT SHORT RADIUS CONNECTION.
3. ALL FLEX DUCT SHALL BE INSTALLED WITHOUT KINKS, SAGGING, OR SHORT-RADIUS BENDS.

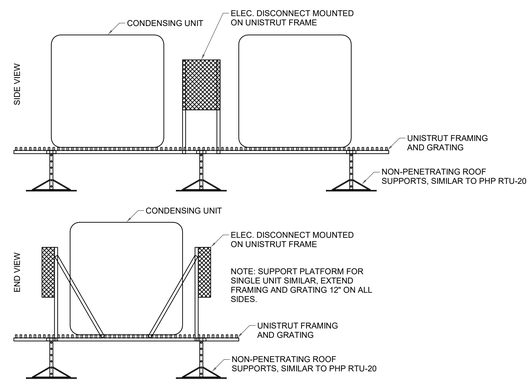
8 M6.2 TYPICAL ROOF REFRIGERANT PIPING PORTAL ASSEMBLY
N.T.S.



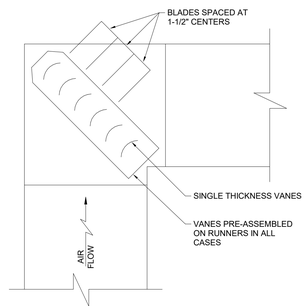
NOTES:
1. ALL EDGES SHALL BE ROLLED & TURNED DOWN. SHARP EDGES WILL NOT BE ACCEPTED.
2. SEAL AS REQUIRED TO MAKE ALL JOINTS & PENETRATIONS WATERTIGHT.
3. CONTRACTOR SHALL FEILD VERIFY ALL DIMENSIONS ANS CONDITIONS
4. PIPE HOUSE SHALL BE INTERNALY INSULATED WITH 2" DUCT LINER



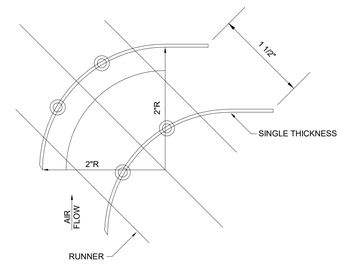
9 M6.2 TYPICAL RETURN AIR SOUND ATTENUATOR DETAIL
N.T.S.



10 M6.2 ROOF MOUNTED CU SUPPORT DETAIL
N.T.S.



11 M6.2 TYPICAL SQUARE ELBOW
N.T.S.



12 M6.2 TYPICAL TURNING VANE
N.T.S.

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Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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MECHANICAL DETAILS
VOLUME 2

Job No. 00802-04-01	Sheet No. M6.2
Drawn By: MBP	
Date: 07.15.2026	

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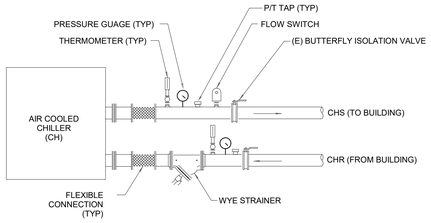
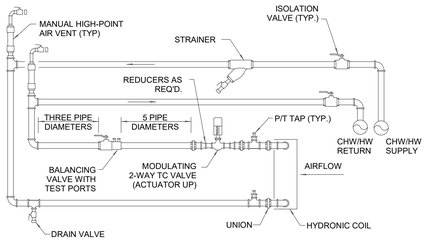


NOTES:

1. ALL HYDRONIC PIPING EXPOSED TO AMBIENT CONDITIONS SHALL BE HEAT TRACED AND INSULATED WITH MOLDED FIBERGLASS INSULATION WITH METAL JACK, TO PREVENT FREEZING DOWN TO 0°F. HEAT TRACING CABLE TO BE RAYCHEM XL-TRACE OR ENGINEER APPROVED EQUAL WITH AMBIENT SENSING THERMOSTATIC CONTROL SET TO ENERGIZE AT 40°F. CONNECT TO ACCESSORY CIRCUIT (120V, 15A, 1PH) TO BE PROVIDED AT CHILLER.

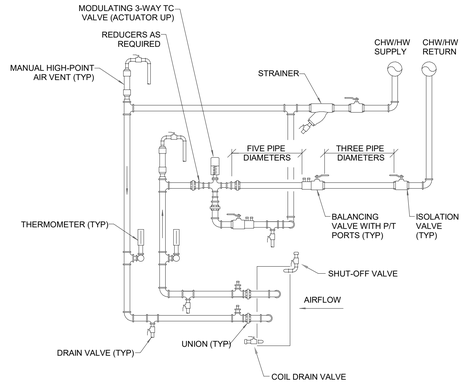
1 M6.3 TYPICAL AIR COOLED CHILLER DETAIL
N.T.S.



NOTES:

1. IN PLACE OF DETAIL ABOVE, FACTORY ASSEMBLED COIL PIPING PACKAGE MAY BE PROVIDED. COIL PIPING PACKAGE MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY EOR PRIOR TO ORDERING EQUIPMENT. COIL PIPING PACKAGE SHALL CONSIST OF, AT A MINIMUM, THE COMPONENTS SHOWN IN THE DETAIL ABOVE AND IS REQUIRED TO MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. PROVIDE ALL DRAIN VALVES AND HIGH-POINT VENTS WITH HOSE END AND CAP WITH CHAIN CONNECTOR.
3. LOCATE UNIONS TO PROVIDE EASY REMOVAL OF COILS
4. PIPE ALL DRAIN VALVES AND AIR VENTS LOCATED OUTSIDE UNIT TO FLOOR DRAIN.

2 M6.3 TYPICAL 2-WAY VALVE COIL PIPING DETAIL
N.T.S.



NOTES:

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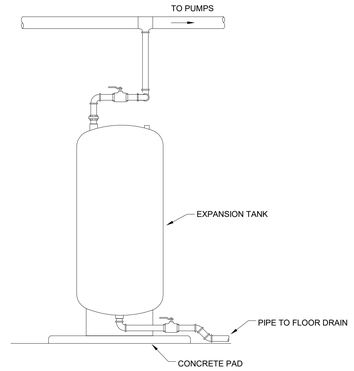
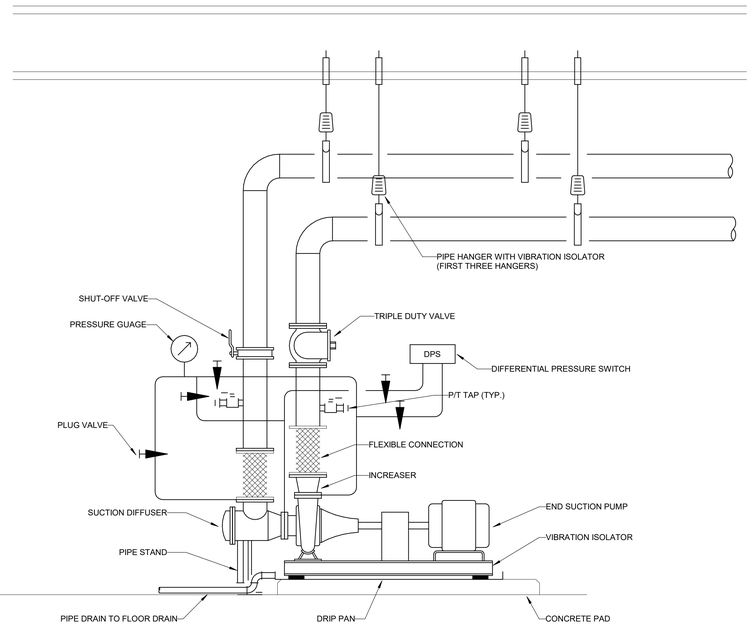
2. PROVIDE ALL DRAIN VALVES AND HIGH-POINT VENTS WITH HOSE END AND CAP WITH CHAIN CONNECTOR.
3. LOCATE UNIONS TO PROVIDE EASY REMOVAL OF COILS
4. PIPE ALL DRAIN VALVES AND AIR VENTS LOCATED OUTSIDE UNIT TO FLOOR DRAIN.

3 M6.3 TYPICAL 3-WAY VALVE COIL PIPING DETAIL
N.T.S.



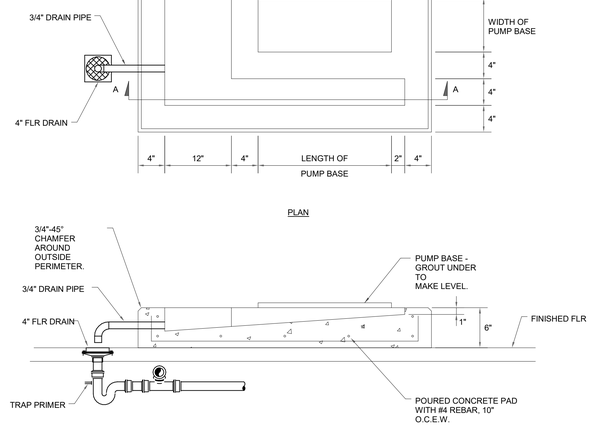
4 M6.3 TYPICAL VERTICAL EXPANSION TANK
N.T.S.



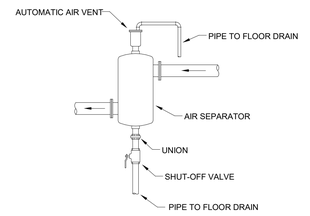
DESIGNERS NOTES:

SHUT-OFF VALVES:
THROUGH 2 1/2": BALL VALVE
ABOVE 2 1/2": BUTTERFLY VALVE

5 M6.3 END SUCTION PUMP
N.T.S.



6 M6.3 PUMP PAD DETAIL
N.T.S.



7 M6.3 TYPICAL AIR SEPERATOR PIPING
N.T.S.

Revision / Date

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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Job No.	Sheet No.
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Date: 07.15.2026	

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CODE SUMMARY

NUMBER	NOTE
	GOVERNING CODES:
BUILDING	2021 INTERNATIONAL BUILDING CODE (IBC)
ELECTRICAL	2023 NATIONAL ELECTRICAL CODE (NEC)
ENERGY	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
FIRE	2021 INTERNATIONAL FIRE CODE (IFC)

COMMON ABBREVIATIONS

NUMBER	NOTE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CU	COPPER
DEG, °	DEGREES
DEMO	DEMOLITION
EMT	ELECTRICAL METALLIC TUBING
FT	FEET
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
IT	INFORMATION TECHNOLOGY, DATA
L	LENGTH
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT-EMITTING DIODE
LTG	LIGHTING
MAX	MAXIMUM
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO.	NUMBER
OD	OUTSIDE DIAMETER
PA	PUBLIC ADDRESS
PVC	POLYVINYL CHLORIDE
RE:	REFERENCE, REFER
RFI	REQUEST FOR INFORMATION
SE	SERVICE ENTRANCE
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VOLTAGE
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHER RESISTANT, WEATHER PROOF

FIRE ALARM SYSTEM NOTES

NUMBER	NOTE
1	COORDINATE FINAL LOCATION OF ALL DEVICES WITH LIGHT AND HVAC SYSTEM DEVICES.
2	MAINTAIN CLEARANCES FROM ALL AIR MOVING DEVICES PER NFPA AND MANUFACTURER REQUIREMENTS.
3	CENTER DEVICES BETWEEN CEILING ELEMENTS AND CEILING AREAS.
4	EXACT LOCATION OF FIRE ALARM REMOTE ANNUNCIATOR TO BE APPROVED BY THE LOCAL FIRE MARSHALL.
5	ALL DEVICES TO BE INSTALLED PER ALL APPLICABLE CODES.

PROJECT GENERAL NOTES

NUMBER	NOTE
1	REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF ELECTRICAL CONSTRUCTION.
2	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
3	REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
4	COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.
5	ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BAR OR SINK SHALL BE GFCI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WP/GFCI. ALL RECEPTACLES SERVING VENDING MACHINES AND ELECTRIC WATER COOLERS SHALL BE GFCI TYPE.
6	ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB. COORDINATE LOCATIONS OF PENETRATIONS WITH THE MECHANICAL CONTRACTOR.
7	PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED.
8	EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70). WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
9	INTEGRATED EQUIPMENT RATINGS (AIC) SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE MANUFACTURER'S EQUAL OR NEXT HIGHER STANDARD RATINGS.
10	ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY CONDUITS SHALL HAVE A PULL CORD.
11	PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.
12	ALL CONDUCTORS SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110 FOR EXACT EQUIPMENT BEING PROVIDED.
13	OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. A MINIMUM OF 6" SEPARATION BETWEEN BOXES SHALL BE MAINTAINED TO REDUCE SOUND TRANSMISSION.
14	THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES. ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG ON A CIRCUIT BREAKER.
15	EXPOSED CONDUIT INSTALLED IN OPEN CEILING AREAS SHALL BE MOUNTED TIGHT TO STRUCTURE AND ROUTE IN PARALLEL WITH ADJACENT WALL.
16	COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED, AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND SHALL BE ACCOMMODATED WITHOUT ADDITIONAL CHARGE.
17	FOR COORDINATION PURPOSES, DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF FIVE FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER
18	ALL DEVICE PLATE COLORS TO BE AS SPECIFIED BY ARCHITECT.
19	CIRCUITS SHOWN TO SPECIFIC EQUIPMENT ARE SHOWN TO DISCONNECT. CONTRACTOR SHALL EXTEND CIRCUIT FROM DISCONNECT TO FINAL TERMINATION OF DEVICE PROVIDED BY OTHERS AND MAKE UNIT OPERATIONAL. COORDINATE EXACT TERMINATION POINTS WITH SUPPLIER OF EQUIPMENT.
20	ALL CONDUIT SHALL BE CONCEALED IN NEW BUILDING CONSTRUCTION WHERE POSSIBLE.
21	ALL RECEPTACLES SHALL BE TAMPER RESISTANT PER NEC 406.12

MOUNTING HEIGHTS

NOTE
MOUNTING HEIGHTS SHOWN BELOW SHALL BE USED AS THE DEFAULT MOUNTING HEIGHT FOR THE ITEMS LISTED UNLESS STATED OTHERWISE IN PLAN. ARCHITECT/OWNER MAY REVISE ANY MOUNTING HEIGHT NECESSARY FOR PREFERENCE OF DESIGN. CONTRACTOR SHALL OBTAIN AND REVIEW ALL ELEVATIONS PROVIDED BY ARCHITECT/OWNER TO VERIFY LOCATIONS PREFERRED BY OWNER OR ARCHITECT.

LIGHTING CONTROL SWITCHES:
- 44" AFF TO HIGHEST OPERABLE PART IN "ON" POSITION.

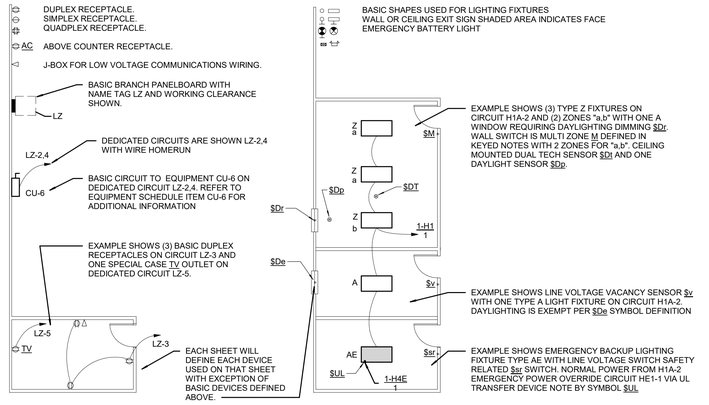
WALL RECEPTACLES:
- 15" MINIMUM AFF TO CENTERLINE OF LOWEST RECEPTACLE OR 18" AFF TO CENTERLINE OF BOX.
- WATER COOLERS-DIRECTLY BEHIND COOLER - COORDINATE ELEVATION WITH THE COOLER TO BE INSTALLED PRIOR TO ROUGH-IN
- IN AREAS NOT LISTED BELOW ABOVE COUNTER RECEPTACLES SHALL BE 6" ABOVE COUNTER

BATHROOM RECEPTACLES:
-44" MAX AFF TO CENTERLINE OF HIGHEST RECEPTACLE.
-12" MINIMUM FROM ANY OBSTRUCTION
-12" MAX FROM LEADING EDGE OF VANITY COUNTER IF ON SIDE WALL.

RECEPTACLES BEHIND KITCHEN COUNTERS:
-44" MAX AFF TO CENTERLINE OF HIGHEST RECEPTACLE
-12" MIN FROM ANY OBSTRUCTION (INCLUDING FRIDGE)
-36" MINIMUM FROM CORNERS
-44" MAX AFF TO "ON" POSITION OF REDUNDANT CONTROLS FOR RANGE HOOD (TYPE A UNITS / ACCESSIBLE UNITS / COMMON AREA KITCHENS)
-24" MAX DEPTH BETWEEN LEADING EDGE OF COUNTERTOP AND RECEPTACLES/SWITCHES LOCATED ON KITCHEN BACKSPLASH WALL (TYPE A UNITS / ACCESSIBLE UNITS / COMMON AREA KITCHENS)

DATA JUNCTION BOX FOR DATA AND OR COMMUNICATIONS:
-MOUNT ADJACENT TO ASSOCIATED POWER OUTLET FOR SIMILAR DEVICES OR USE. IN THE EVENT IT IS NOT CLEAR VERIFY WITH ARCHITECTURAL ELEVATIONS OR CONFIRM WITH DESIGNER.

SYMBOLS ARE NOT LIMITED TO EXAMPLES SHOWN BELOW, REFER TO KEYED NOTES EACH SHEET FOR MORE SPECIFIC DEFINITIONS AND DIRECTIONS.



1 EXAMPLE ELECTRICAL DRAFTING
E0.01 NO SCALE

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ELECTRICAL GENERAL NOTES

VOLUME 2

Job No.	Sheet No.
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Drawn By: MH	
Date: 07.15.2026	

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LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER AND MODEL #1 (BASIS OF DESIGN) CW Lighting	MANUFACTURER AND MODEL #2 Lesco	MANUFACTURER AND MODEL #3 Bell and Mccoy	VOLTAGE	REF. NOTE	MOUNTING	WATTAGE	REMARKS
A	DAY-BRITE CFI 2CAZ-G-43L-840-4-DS-UNV-DIM	LITHONIA STAK-2X4-4000LM-80CRI-40K-COL-MIN1-EZT-MVOLT	WILLIAMS AT2-2-4-L40-8-40-D-DIM-UNV	UNV	3,6,7	RECESSED	33	
AE	SAME AS A, BACKUP IS FED THROUGH GENERATOR	SAME AS A, BACKUP IS FED THROUGH GENERATOR	SAME AS A, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	33	
A2	DAY-BRITE CFI 2CAZ-G-38L-840-4-DS-UNV-DIM	LITHONIA STAK-2X4-3000LM-80CRI-40K-COL-MIN1-EZT-MVOLT	WILLIAMS AT2-2-4-L40-8-40-D-DIM-UNV	UNV	3,6,7	RECESSED	24	
A2E	SAME AS A2, BACKUP IS FED THROUGH GENERATOR	SAME AS A2, BACKUP IS FED THROUGH GENERATOR	SAME AS A2, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	24	
A3	DAY-BRITE CFI 2FPZ-43L-840-4-DS-UNV-DIM	LITHONIA CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-MVOLT	WILLIAMS BP-2-4-LS-8-CS-DIM-UNV	UNV	3,6,7	RECESSED	37	
A3E	SAME AS A3, BACKUP IS FED THROUGH GENERATOR	SAME AS A3, BACKUP IS FED THROUGH GENERATOR	SAME AS A3, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	37	
A4	PINNACLE AD24-A-MOD(RGB-WLED)-G1-U-MOD(EC1)-1-0-W-MOD(DMX)	MARK WHSPR-2X4-ARTC-RGBW-11000LM-MIN1-MVOLT-SWC-DMX	WILLIAMS AT2-2-4-L84-RGB8-40-D-DMX-UNV	UNV	3,6,7	RECESSED	45	
A4E	SAME AS A4, BACKUP IS FED THROUGH GENERATOR	SAME AS A4, BACKUP IS FED THROUGH GENERATOR	SAME AS A4, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	45	
C	DAY-BRITE CFI LBX-55L-840-UNV-W	LITHONIA CSS-L48-5000LM-MVOLT-MIN10-ZT-40K-80CRI-ZACVH-M100	WILLIAMS 75W-4-L50-8-40-ACF/D-24-DIM-UNV	UNV	2,3,6,7	SUSPENDED	38	
CE	SAME AS C, BACKUP IS FED THROUGH GENERATOR	SAME AS C, BACKUP IS FED THROUGH GENERATOR	SAME AS C, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	38	
D	LITELINE GEN06-IS-40-W-BK-S-N-X-N	GOTHAM - IVO6-D-20LM-40K-80CRI-55D-MIN10-MVOLT-ZT-NCH-P-BRS-SLG-BR-LSS-FBL	WILLIAMS 6LDR-L20-6-40-BLK-DIM-UNV-N-F1	UNV	3,6,7	RECESSED	43	
DE	SAME AS D, BACKUP IS FED THROUGH GENERATOR	SAME AS D, BACKUP IS FED THROUGH GENERATOR	SAME AS D, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	43	
D2	LITELINE GEN04-20-40-W-BH-S-N-X-N	GOTHAM - IVO4-D-20LM-40K-80CRI-55D-MIN10-MVOLT-ZT-NCH-P-BRS-SLG-AR-LSS-FBL	WILLIAMS 4LDR-L20-8-40-BLK-DIM-UNV-N-F1	UNV	3,6,7	RECESSED	20	
D2E	SAME AS D2, BACKUP IS FED THROUGH GENERATOR	SAME AS D2, BACKUP IS FED THROUGH GENERATOR	SAME AS D2, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	20	
D3	LITELINE GEN04-20-40-W-WH-S-N-X-N	GOTHAM - IVO4-D-20LM-40K-80CRI-55D-MIN10-MVOLT-ZT-NCH-WL-P-BRS-SLG-AR-LSS-FBL	WILLIAMS 4LDR-L20-8-40-CS-DIM-UNV-N-F1	UNV	3,6,7	RECESSED	20	
D3E	SAME AS D2, BACKUP IS FED THROUGH GENERATOR	SAME AS D3, BACKUP IS FED THROUGH GENERATOR	SAME AS D3, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	20	
D4	LITELINE GEN04-IB-40-W-BK-S-N-X-N	GOTHAM - IVO4-D-15LM-40K-80CRI-60D-MIN10-MVOLT-ZT-NCH-P-BRS-SLG-AR-LSS-FBL	WILLIAMS 4LDR-L15-8-40-BLK-DIM-UNV-N-F1	UNV	3,6,7	RECESSED	20	
FL	HADCO SL43-C--ADA-N-N-N	HYDREL M9420C-LED-P2-40K-MVOLT-MFL-FLC-12B-LDIM	KIM LIGHTING LTV82SS-NF-18L-4K-UV-SRRCA82	UNV	1,6,7	IN-GRADE	20	
FP6	PINNACLE EX4D-A-N-840SO-6-U-FSD-1-BL	MARK S4PD-LLP-6FT0-MSL8-80CRI-40K-600LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX4D-6'00-L4-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	28	
FP8	PINNACLE EX4D-A-N-840SO-8-U-FSD-1-BL	MARK S4PD-LLP-8FT0-MSL8-80CRI-40K-600LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX2D-8'00-L4-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	37	
FP8E	SAME AS FP8, BACKUP IS FED THROUGH GENERATOR	SAME AS FP8, BACKUP IS FED THROUGH GENERATOR	SAME AS FP8, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	37	
FP10	PINNACLE EX4D-A-N-840SO-10-U-FSD-1-BL	MARK S4PD-LLP-10FT0-MSL8-80CRI-40K-600LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX4D-10'00-L4-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	47	
FP10E	SAME AS FP10, BACKUP IS FED THROUGH GENERATOR	SAME AS FP10, BACKUP IS FED THROUGH GENERATOR	SAME AS FP10, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	47	
FP12	PINNACLE EX4D-A-N-840SO-12-U-FSD-1-BL	MARK S4PD-LLP-12FT0-MSL8-80CRI-40K-600LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX4D-12'00-L4-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	56	
FP12E	SAME AS FP12, BACKUP IS FED THROUGH GENERATOR	SAME AS FP12, BACKUP IS FED THROUGH GENERATOR	SAME AS FP12, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	56	
FP98	PINNACLE EX4D-A-N-840VHO-98-U-FSD-1-BL	MARK S4PD-LLP-98FT0-MSL8-80CRI-40K-1000LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX4D-98'00-L12-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	459	FIXTURE SHALL INCLUDE REMOTE, ACCESSIBLE DRIVERS IN HIGH VOLUME SPACES. CONTRACTOR SHALL COORDINATE EACT LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
FP98E	SAME AS FP98, BACKUP IS FED THROUGH GENERATOR	SAME AS FP98, BACKUP IS FED THROUGH GENERATOR	SAME AS FP98, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	459	FIXTURE SHALL INCLUDE REMOTE, ACCESSIBLE DRIVERS IN HIGH VOLUME SPACES. CONTRACTOR SHALL COORDINATE EACT LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
FP99E	PINNACLE EX4D-A-N-840VHO-99-U-FSD-1-BL, BACKUP FED THROUGH GENERATOR	MARK S4PD-LLP-99FT0-MSL8-80CRI-40K-1000LMF-SCT-MIN10-FLL-BLKT-GTD-MVOLT-ZT-F1/	WILLIAMS MX4D-99'00-L12-8-40-F-AC/D48-BLACK-GEN-DIM-UNV	UNV	2,3,6,7	SUSPENDED	463	FIXTURE SHALL INCLUDE REMOTE, ACCESSIBLE DRIVERS IN HIGH VOLUME SPACES. CONTRACTOR SHALL COORDINATE EACT LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
FP102	PINNACLE EX4D-A-N-840VHO-102-U-FSD-1-BL	MARK S4PD-LLP-102FT0-MSL8-80CRI-40K-1000LMF-SCT-MIN10-FLL-BLKT-MVOLT-ZT-F1/	WILLIAMS MX4D-102'00-L12-8-40-F-AC/D48-BLACK-DIM-UNV	UNV	2,3,6,7	SUSPENDED	477	FIXTURE SHALL INCLUDE REMOTE, ACCESSIBLE DRIVERS IN HIGH VOLUME SPACES. CONTRACTOR SHALL COORDINATE EACT LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
FR4	PINNACLE ET4D-A-840-4-G9-U-FSD-1-BL	MARK SL4L-LOP-4FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-4-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	24	
FR4E	SAME AS FR4, BACKUP IS FED THROUGH GENERATOR	SAME AS FR4, BACKUP IS FED THROUGH GENERATOR	SAME AS FR4, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	24	
FR6	PINNACLE ET4D-A-840-6-G9-U-FSD-1-BL	MARK SL4L-LOP-6FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-4640-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	36	
FR6E	SAME AS FR6, BACKUP IS FED THROUGH GENERATOR	SAME AS FR6, BACKUP IS FED THROUGH GENERATOR	SAME AS FR6, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	36	
FR8	PINNACLE ET4D-A-840-8-G9-U-FSD-1-BL	MARK SL2L-LOP-8FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-8-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	48	
FR8E	SAME AS FR6E, BACKUP IS FED THROUGH GENERATOR	SAME AS FR8, BACKUP IS FED THROUGH GENERATOR	SAME AS FR8, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	48	
FR12	PINNACLE ET4D-A-840-12-G9-U-FSD-1-BL	MARK SL2L-LOP-12FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-12-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	72	
FR12E	SAME AS FR12, BACKUP IS FED THROUGH GENERATOR	SAME AS FR12, BACKUP IS FED THROUGH GENERATOR	SAME AS FR12, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	72	
FR14E	SAME AS FR12, BACKUP IS FED THROUGH GENERATOR	SAME AS FR14, BACKUP IS FED THROUGH GENERATOR	SAME AS FR14, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	84	
FR16	PINNACLE ET4D-A-840-16-G9-U-FSD-1-BL	MARK SL2L-LOP-16FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-16-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	96	
FR16E	SAME AS FR16, BACKUP IS FED THROUGH GENERATOR	SAME AS FR16, BACKUP IS FED THROUGH GENERATOR	SAME AS FR16, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	96	
FR20	PINNACLE ET4D-A-840-20-G9-U-FSD-1-BL	MARK SL2L-LOP-20FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-20-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	108	
FR20E	SAME AS FR20, BACKUP IS FED THROUGH GENERATOR	SAME AS FR20, BACKUP IS FED THROUGH GENERATOR	SAME AS FR20, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	108	
FR24	PINNACLE ET4D-A-840-24-G9-U-FSD-1-BL	MARK SL2L-LOP-24FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-24-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	144	
FR25	PINNACLE ET4D-A-840-25-G9-U-FSD-1-BL	MARK SL2L-LOP-25FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-25-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	150	
FR29	PINNACLE ET4D-A-840-29-G9-U-FSD-1-BL	MARK SL2L-LOP-29FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-29-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	174	
FR30	PINNACLE ET4D-A-840-30-G9-U-FSD-1-BL	MARK SL2L-LOP-30FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-30-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	150	
FR30E	SAME AS FR30, BACKUP IS FED THROUGH GENERATOR	SAME AS FR30, BACKUP IS FED THROUGH GENERATOR	SAME AS FR30, BACKUP IS FED THROUGH GENERATOR	UNV	3,6,7	RECESSED	174	
FR46	PINNACLE ET4D-A-840-46-G9-U-FSD-1-BL	MARK SL2L-LOP-46FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-46-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	276	
FR117	PINNACLE ET4D-A-840-117-G9-U-FSD-1-BL	MARK SL2L-LOP-117FT0-FLP-TG/BLKT-80CRI-40K-600LMF-MIN10-277-ZT	CORONET LSR4-117-40-MED-UNV-DB-BLK-T-AV1.BWG	UNV	3,6,7	RECESSED	702	
G	ALS CSB-230SC-C-BK-UD	LITHONIA REBL-AL016-MD-277-SWW9-80CRI	WILLIAMS GNR-L310-8-40-PC-DIM-UNV	UNV	2,3,6,7	SUSPENDED	190	
GE	SAME AS G, BACKUP IS FED THROUGH GENERATOR	SAME AS G, BACKUP IS FED THROUGH GENERATOR	SAME AS G, BACKUP IS FED THROUGH GENERATOR	UNV	2,3,6,7	SUSPENDED	190	
H	LIGHTOLOGY POPPY PENDANT	SLAMP VELI FOLIAGE VELSL00FLG01T00000US	HINKLEY FANTINE FR46895UB	UNV	2,3,6,7	SUSPENDED	17	
J1	DAY-O-LITE APL-1999-D-SI-RGB-LO-LENGTH-G-W-DIM10	MARK SPRLED-LOP-LENGTH-RLP-G0-80CRI-40K-450LMF-MIN10	WILLIAMS MX2R-TR-LENGTH-L4-8-40-F-DIM-UNV	UNV	2,3,6,7	SUSPENDED	35	
J2	COVE PERFEKT CC-H-I-[LENGTH]-500-80-40-TW2750-W-UNV-DP-1	MARK MCV504-LLP-LENGTH-MSL4-40K-400LMF-ASYM-MIN1-MVOLT-SGW-ZT	WILLIAMS CX-C-LENGTH-L4-8-40-0-D-DIM-UNV	UNV	2,3,6,7	SUSPENDED	35	
K	LEGION 181S-OP-LL3-40-UNV-F10DC	LUMENARE LED ARV13-MIN10-25W-40K-MVOLT-OP	KIM LIGHTING PVNTR-13-30-40K8-D01-UNV	UNV	2,5,6,7	SURFACE	25	
KE	SAME AS K, BACKUP IS FED THROUGH GENERATOR	SAME AS K, BACKUP IS FED THROUGH GENERATOR	SAME AS K, BACKUP IS FED THROUGH GENERATOR	UNV	2,5,6,7	SURFACE	25	
L	LIGHTOLOGY KINA PENDANT	BRUCK WEP-EML-60-LLED-35K-PBK	WAKANINE KINA	UNV	2,5,6,7	SURFACE	15	
N1	BETACALCO TRPE1W29-LMA0090-CR80-CTA40-V1-DA01	STICKBULB RAY-SCNC-3FT-WAL-4000-UNI-SB	SISTEMALUX S2280-N-JB-UNV-D10	UNV	2,5,6,7	SURFACE	20	
N2	BETACALCO TRPE1W53-LMA0090-CR80-CTA40-V1-DA02	STICKBULB RAY-SCNC-5FT-WAL-4000-UNI-SB	SISTEMALUX S2281-N-JB-UNV-D10	UNV	2,5,6,7	SURFACE	20	
O	CURREY AND COMPANY LUNARIA SILVER OVAL CHANDELIER	SCHONBEK S2456-32	HINKLEY AUDRA FR41938DG	UNV	2,5,6,7	SURFACE	62	
P1	TEGAN LIGHTING KAQP-SPG-RDE-CSJ-BS-LED-120/277V-DSO-DM-0-10V-LB-O-30-NC	EI TORRENT TUS-BM-S080-02	BOVER S/60 30906204169U	UNV	2,3,6,7	SUSPENDED	13	
P2	TEGAN LIGHTING KAQP-SPG-RDE-CSJ-BS-LED-120/277V-DSO-DM-0-10V-LB-O-24-NC	EI TORRENT TUS-BM-S060-02	BOVER S/60 30906204169U	UNV	2,5,6,7	SURFACE	13	
P3	TEGAN LIGHTING KAQP-SPG-RDE-CSJ-BS-LED-120/277V-DSO-DM-0-10V-LB-O-18-NC	EI TORRENT TUS-BM-S040-02	BOVER S/60 30906204169U	UNV	2,5,6,7	SURFACE	13	
Q	DAY-O-LITE VLL-1644-DI-PF-40-SO-8-WM-DIM10	LITHONIA MLX-L8-8000LM-80CRI-40K-WGDL-MD-MIN10-ZT-MVOLT-WH	LITCONTROL 67L-W-D-8'-8-BL-40K9-D075-D01-1C-UNV	UNV	2,5,6,7	SURFACE	49	
QE	SAME AS Q, BACKUP IS FED THROUGH GENERATOR	SAME AS Q, BACKUP IS FED THROUGH GENERATOR	SAME AS Q, BACKUP IS FED THROUGH GENERATOR	UNV	2,5,6,7	SURFACE	49	
R14	AXIS LIGHTING EX4R-500-80-40-SO-14-W-UNV-DP-1-D	MARK SL2L-LOP-14FT0-FLP-FL-80CRI-40K-600LMF-MIN1-277-ZT-WL	LITECONTROL 2W-DW-D-14'-.3-08-SOFW-40K9-D060-D01-1C-UNV	UNV	2,5,6,7	SURFACE	84	
R16	AXIS LIGHTING EX4R-500-80-40-SO-16-W-UNV-DP-1-D	MARK SL2L-LOP-16FT0-FLP-FL-80CRI-40K-600LMF-MIN1-277-ZT-WL	LITECONTROL 2W-DW-D-16'-.3-08-SOFW-40K9-D060-D01-1C-UNV	UNV	2,5,6,7	SURFACE	96	
R16E	SAME AS R16, BACKUP IS FED THROUGH GENERATOR	SAME AS R16, BACKUP IS FED THROUGH GENERATOR	SAME AS R16, BACKUP IS FED THROUGH GENERATOR	UNV	2,5,6,7	SURFACE	96	
R28	AXIS LIGHTING EX4R-500-80-40-SO-28-W-UNV-DP-1-D	MARK SL2L-LOP-28FT0-FLP-FL-80CRI-40K-600LMF-MIN1-277-ZT-WL	LITECONTROL 2W-DW-D-28'-.3-08-SOFW-40K9-D060-D01-1C-UNV	UNV	2,5,6,7	SURFACE	168	
R72	AXIS LIGHTING EX4R-500-80-40-SO-72-W-UNV-DP-1-D	MARK SL2L-LOP-72FT0-FLP-FL-80CRI-40K-600LMF-MIN1-277-ZT-WL	LITECONTROL 2W-DW-D-72'-.3-08-SOFW-40K9-D060-D01-1C-UNV	UNV	2,5,6,7	SURFACE	432	
S1	GARDCO OPF-M-A13-740-T4W-AR1-UNV-WIAP	LITHONIA RSX2 LED-P4-40K-R4-MVOLT-SPA-NLTAIR2 PIRHN	WILLIAMS VA2-L330-8-40-T4-F-S-DIM-UNV	UNV	1,6,7	POLE	187	25' POLE
S2	SAME AS S1, WITH 2 FIXTURES MOUNTED 180 DEGREES OF EACH OTHER	SAME AS S1, WITH 2 FIXTURES MOUNTED 180 DEGREES OF EACH OTHER	SAME AS S1, WITH 2 FIXTURES MOUNTED 180 DEGREES OF EACH OTHER	UNV	1,6,7	POLE	374	25' POLE
S3	GARDCO OPF-M-A13-740-T2M-AR1-UNV-WIAP	LITHONIA RSX2 LED-P4-40K-R2-MVOLT-SPA-NLTAIR2 PIRHN	WILLIAMS VA2-L330-8-40-T2-F-S-DIM-UNV	UNV	1,6,7	POLE	187	25' POLE
T	LUMINART SOL-L72-RD1500L-48W-4000K-BLACK-277-0-10V	FOCAL POINT DLIA-60S-CRV1-12-FSDL-44-CX-7000L-40K-1C-UNV-C-DLIA-BKCD-BK	CORONET PRD.STFU.4-4-40-MED-UNV-DB-FHD-AC.CENT-SD	UNV	1,6,7	POLE	60	
U2	AXIS BMRLED-300-80-40-TW2750-FL-2--UNV-DO-1-TB9	FINELITE HP-3-R-D-2-S-840-F-277-SC-FC-10%-C1-FE	CORONET LSR3-2-40-LOW-UNV-DB-T-AV1.BWG	UNV	3,6,7	RECESSED	16	
U12	AXIS BMRLED-300-80-40-TW2750-FL-12--UNV-DO-1-TB9	FINELITE HP-3-R-D-12-S-840-F-277-SC-FC-10%-C1-FE	CORONET LSR3-12-40-LOW-UNV-DB-T-AV1.BWG	UNV	3,6,7	RECESSED	96	
U13	AXIS BMRLED-300-80-40-TW2750-FL-13--UNV-DO-1-TB9	FINELITE HP-3-R-D-13-S-840-F-277-SC-FC-10%-C1-FE	CORONET LSR3-13-40-LOW-UNV-DB-T-AV1.BWG	UNV	3,6,7	RECESSED	104	
U15	AXIS BMRLED-300-80-40-TW2750-FL-15--UNV-DO-1-TB9	FINELITE HP-3-R-D-15-S-840-F-277-SC-FC-10%-C1-FE	CORONET LSR3-15-40-LOW-UNV-DB-T-AV1.BWG	UNV	3,6,7	RECESSED	120	
U16	AXIS BMRLED-300-80-40-TW2750-FL-16--UNV-DO-1-TB9	FINELITE HP-3-R-D-16-S-840-F-277-SC-FC-10%-C1-FE	CORONET LSR3-16-40-LOW-UNV-DB-T-AV1.BWG	UNV	3,6,7	RECESSED	128	
W	GARDCO 16L-700-NW-G2-4-UNV-DD	LITHONIA WDGE2 LED-P3-40K-80CRI-T4M-MVOLT-SRM	WILLIAMS VWPV-L30-8-40-T3-CGL-DIM-UNV	UNV	1,5,6,7	WALL	32	
X1	CHLORIDE CE-1-RW-W	EXITRONIX 902EX-R-LB-RC-WH	MULE LIGHTING CEL-1-A-RC-WH-R	UNV	3,6,7	CEILING	5	
X2	CHLORIDE CE-1-RW-W	EXITRONIX 902EX-U-LB-RC-WH	MULE LIGHTING CEL-1-A-RC-WH-U	UNV	3,6,7	SURFACE	5	
X3	CHLORIDE ER46L-1-W-R-WG4	EXITRONIX VEX-U-LB-WH-WG-S	MULE LIGHTING MX-A-R-U-BPG2	UNV	3,6,7	SURFACE	5	

LIGHT FIXTURE SCHEDULE NOTES

1	'ON' 'OFF' TO BE THRU TIMECLOCK.
2	COORDINATE WITH ARCHITECT DRAWINGS FOR EXACT LENGTHS, IN ONE FOOT INCREMENTS, PRIOR TO BIDDING AND ORDERING FIXTURES. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
3	PROVIDE CEILING TYPE MOUNTING AS REQUIRED, REF. ARCH. DRAWINGS.
4	PROVIDE CHAIN HANGER IN AREAS WITHOUT CEILING, REF. ARCH. DRAWINGS.
5	PROVIDE WALL OR COLUMN TYPE MOUNTING AS REQUIRED, REF. ARCH. DRAWINGS.
6	VERIFY EXACT LOCATION AND HEIGHT W/ ARCH. PRIOR TO ROUGH-IN - REF. ARCH'S ELEVS FOR MORE INFORMATION. ADVISE ARCHITECT WHERE FIXTURES ARE SHOWN IN ARCHITECTURAL FEATURE.
7	VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.
8	PROVIDE WITH ADJUSTABLE CEILING ADAPTER OPTION FOR ALL FIXTURES INSTALLED IN SLOPED CEILING. EC TO VERIFY DEGREE OF SLOPE WITH ARCHITECT PRIOR TO ORDERING FIXTURES.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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143448
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B. KYLE HASKOVEC, PE #143448 ON 07/13/2026

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ELECTRICAL SCHEDULES

VOLUME 2

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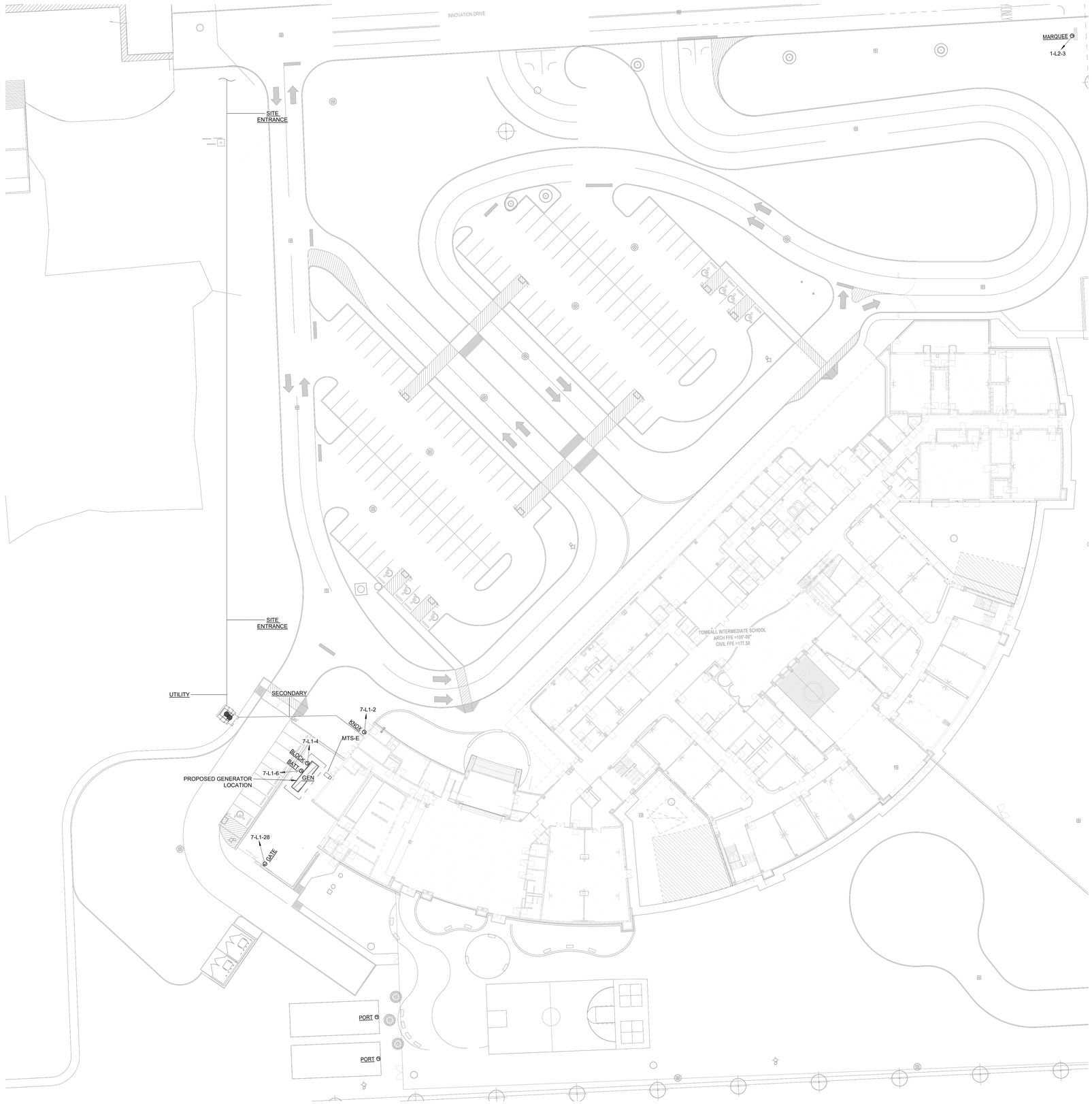

1 E1.00 ELECTRICAL POWER SITE PLAN
1" = 30'-0"

N TRUE

PLAN

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
BATT	J-BOX FOR GENERATOR BATTERY CHARGER. COORDINATE EXACT LOCATION WITH MANUFACTURER OF GEN-SET.
BLOCK	J-BOX FOR GENERATOR BLOCK HEATER. COORDINATE EXACT LOCATION WITH MANUFACTURER OF GEN-SET.
GATE	MOTORIZED GATE OPERATOR. PROVIDE TWO(2) 2"C TO COMPUTER ROOM FOR DIGITAL CONTROL. PROVIDE 1"C FROM GATE CONTROLLER TO ENTRANCE CARD READER POLE FOR ENTRANCE ACCESS. EXIT LANE PROVIDE 1"C TO LOOP DETECTOR. COORDINATE EXACT LOCATIONS WITH GATE INSTALLER.
GEN	NEW 125KW NATURAL GAS 480Y/277V GENERATOR.
KNOX	PROPOSED LOCATION FOR BUILDING MAIN SHUNT TRIP DEVICE TO DE-ENERGIZE ELECTRICAL SERVICE. COORDINATE FINAL INSTALL LOCATION WITH AHJ.
MARQUEE	J-BOX FOR MARQUEE SITE SIGNAGE. PROVIDE TWO (2) 2" CONDUITS FROM ELECTRICAL ROOM TO MARQUEE/SIGN. PROVIDE PULL STRING AND CAP.
PORT	PROVIDE (2) 4" CONDUITS WITH PULL STRING TO THE MDP FOR FUTURE PORTABLE BUILDING POWER. PROVIDE JUNCTION BOX ON THE SITE TAGGED WITH ELECTRICAL AND NOTED FOR PORTABLE BUILDINGS. SWITCHBOARD DIRECTORY SHALL BE TAGGED FOR FUTURE PORTABLE BUILDINGS AT THE 400A BREAKER. CONDUIT SHALL BE TAGGED AND LABELED ON BOTH ENDS FOR FUTURE IDENTIFICATION OF THE START/END OF THE CONDUITS.
SECONDARY	APPROXIMATE ROUTING OF SECONDARYUTILITY CONDUITS. EXACT ROUTING TO BE FIELD DETERMINED. REFER TO ONE-LINE AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
SITE ENTRANCE	COORDINATE CONNECTION LOCATION WITH UTILITY COMPANY.
UTILITY	PROPOSED LOCATION OF UTILITY DISTRIBUTION TRANSFORMER. REFER TO ONE-LINE AND SERVICE ENTRANCE SPECIFICAITONS FOR ADDITIONAL INFORMATION AND DIVISION OF LABOR FOR ELECTRIC UTILITY SERVICE ENTRANCE. COORDINATE EXACT LOCATION WITH CIVIL AND UTILITY PROVIDER PRIOR TO INSTALLATION OF TRANSFORMER PAD.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

IEG
Innovative Engineering Group
www.iegengineers.com
817.410.2858
TBPELS Firm No. F-5923



Huckabee
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800.687.1229

ELECTRICAL POWER SITE PLAN

VOLUME 2

Job No. 00803-04-01	Sheet No. E1.00
Drawn By: MH	
Date: 07.15.2026	

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ELECTRICAL GENERAL NOTES

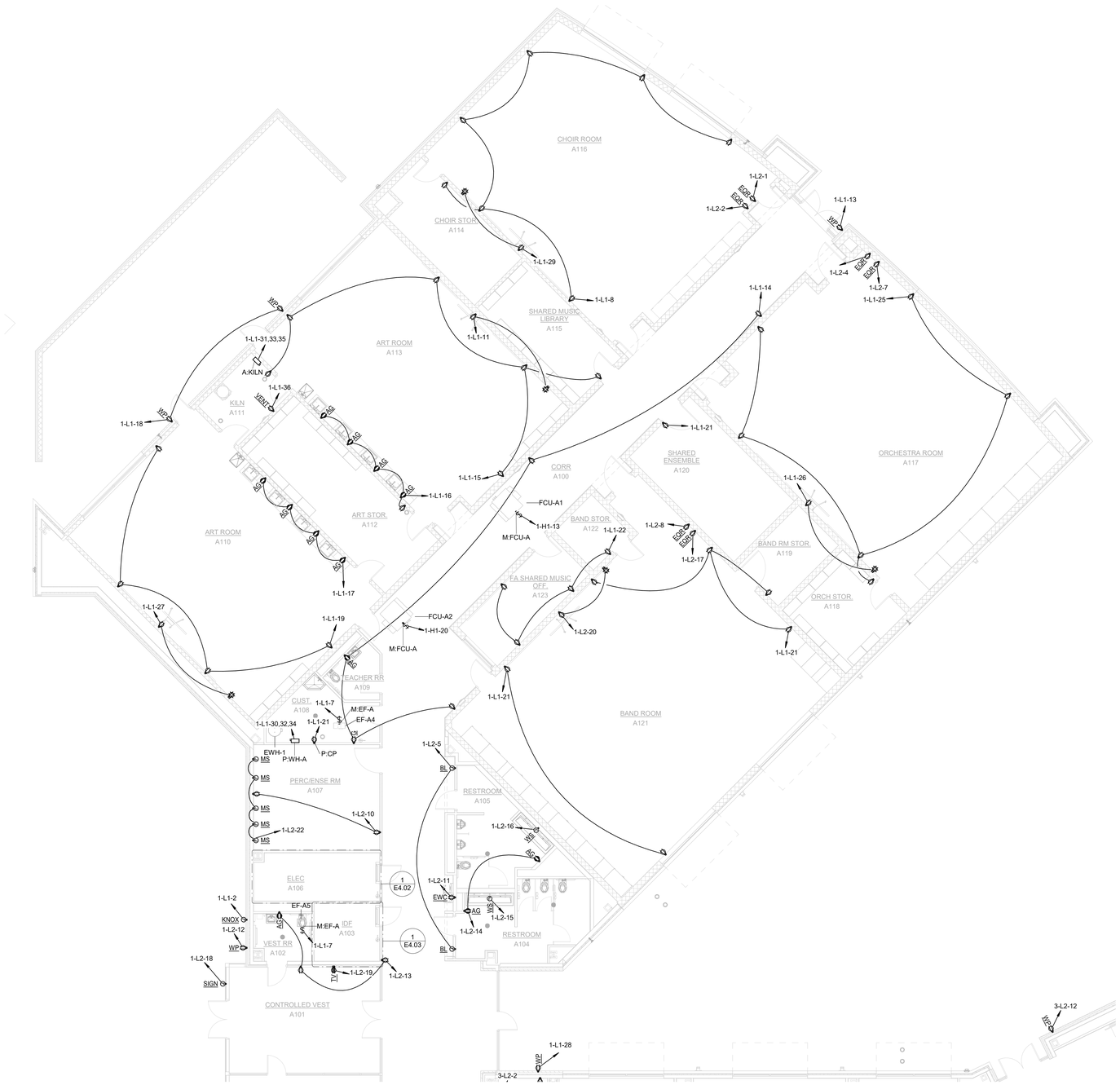
NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

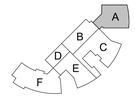
KEY	DESCRIPTION
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BL	J-BOX FOR BACKLIT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER OF SIGNAGE.
EQR	DUPLEX RECEPTACLE FOR AV EQUIPMENT RACK. REFER TO THEATRICAL DRAWINGS FOR FURTHER INFORMATION.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
KNOX	PROPOSED LOCATION FOR BUILDING MAIN SHUNT TRIP DEVICE TO DE-ENERGIZE ELECTRICAL SERVICE. COORDINATE FINAL INSTALL LOCATION WITH AHJ.
MS	J-BOX FOR MOTOR OPERATED SHADE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLTION.
SIGN	J-BOX FOR BACKLIT EXTERIOR SIGNAGE. COORDINATE EXACT MOUNTING WITH INSTALLER OF BACKLIT SIGNAGE.
TV	RECESSED DUPLEX RECEPTACLE FOR TELEVISION OR DISPLAY, COORDINATE EXACT ELEVATION WITH ARCHITECT. RECEPTACLE SHALL HAVE INTEGRAL SURGE PROTECTION. PROVIDE DEDICATED GROUND IN ADDITION TO EQUIPMENT GROUND BACK TO PANEL SERVING OUTLET.
VENT	DUPLEX RECEPTACLE FOR VENT-A-KILN. COORDINATE EXACT REQUIREMENTS WITH INSTALLER OF VENT-A-KILN.
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
A:KILN	100/3/NF/NEMA 1 DISCONNECT FOR KILN.	27380 VA	208 V	3
M:EF-A	MOTOR RATED SWITCH FOR EXHAUST FAN.	528 VA	120 V	1
M:FCU-A	DISCONNECT INTEGRAL TO FAN COIL UNIT.	1800 VA	277 V	1
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-A	60/3/NF NEMA 1 DISCONNECT FOR WATER HEATER.	9000 VA	208 V	3



1 POWER PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN
N

Revision / Date

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STATE OF TEXAS
B. KYLE HASKOVEC
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PROFESSIONAL ENGINEER
THIS SEAL AUTHORIZES THIS DOCUMENT WAS AUTHORIZED BY B. KYLE HASKOVEC, PE 07/15/2026

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POWER PLAN - LEVEL 01 - AREA A

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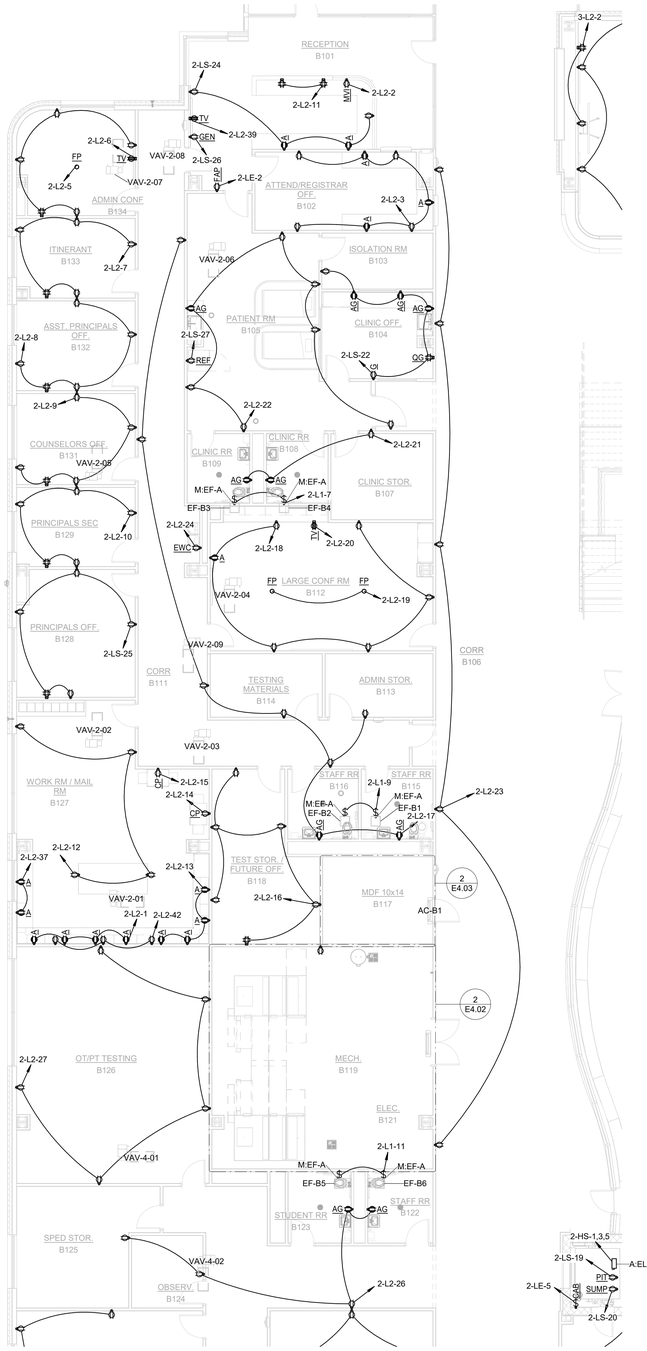
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

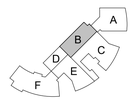
KEY	DESCRIPTION
A	ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
CAB	LOCKABLE SWITCH FOR ELEVATOR CAB LIGHTING/POWER, COORDINATE EXACT LOCATION WITH INSTALLER OF ELEVATOR.
CP	DEDICATED OUTLET FOR OWNERS DEDICATED COPY MACHINE. CONFIRM CONFIGURATION PRIOR TO ROUGHIN WITH GC.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
FAP	DEDICATED CIRCUIT FOR FIRE ALARM ANNUNCIATOR PANEL. COORDINATE EXACT LOCATION WITH INSTALLER OF PANEL.
FP	FLOOR BOX WITH TWO DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WIREMOLD #RFBA4R25-OG FOR SLAB ON-GRADE LOCATIONS AND ##RFBA4R25 FOR ABOVE-GRADE LOCATIONS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
GEN	DEDICATED CIRCUIT FOR GENERATOR ANNUNCIATOR PANEL. COORDINATE EXACT LOCATION WITH INSTALLER OF PANEL.
MVI	DUPLEX RECEPTACLE FOR MASTER VIDEO/INTERCOM STATION. REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION.
PIT	GFI RECEPTACLE IN ELEVATOR PIT. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
QG	GFCI QUADPLEX RECEPTACLE
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.
SUMP	GFI RECEPTACLE IN ELEVATOR PIT FOR SUMP PUMP. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
TV	RECESSED DUPLEX RECEPTACLE FOR TELEVISION OR DISPLAY, COORDINATE EXACT ELEVATION WITH ARCHITECT. RECEPTACLE SHALL HAVE INTEGRAL SURGE PROTECTION. PROVIDE DEDICATED GROUND IN ADDITION TO EQUIPMENT GROUND BACK TO PANEL SERVING OUTLET.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
A:ELEV	100/3/NF/NEMA 1 DISCONNECT FOR ELEVATOR. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE SHUNT TRIP PROTECTION FOR ELEVATOR UNLESS NOT REQUIRED BY LOCAL JURISDICTION.	22437 VA	480 V	3
M:EF-A	MOTOR RATED SWITCH FOR EXHAUST FAN.	528 VA	120 V	1
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1



1 POWER PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

Revision / Date

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TOMBALL, TEXAS

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POWER PLAN - LEVEL 01 - AREA B

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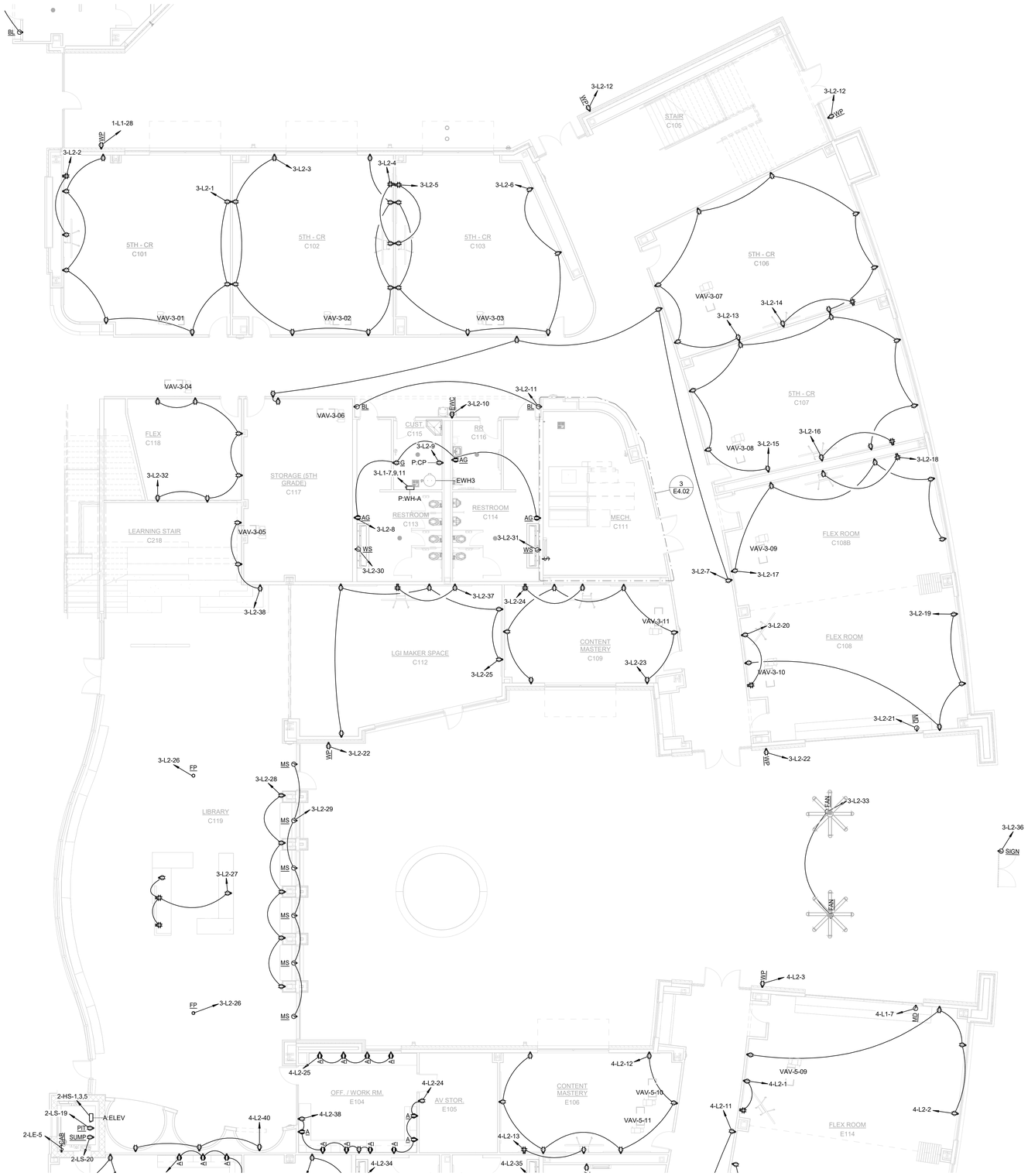

1 POWER PLAN - LEVEL 01 -'AREA C
1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, *ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
A	ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BL	J-BOX FOR BACKLIT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER OF SIGNAGE.
CAB	LOCKABLE SWITCH FOR ELEVATOR CAB LIGHTING/POWER, COORDINATE EXACT LOCATION WITH INSTALLER OF ELEVATOR.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
FAN	J-BOX FOR CEILING MOUNTED FAN. COORDINATE EXACT MOUNTING WITH INSTALLER OF FAN.
FP	FLOOR BOX WITH TWO DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WIREMOLD #RFBA4R25-OG FOR SLAB ON-GRADE LOCATIONS AND ###RFBA4R25 FOR ABOVE-GRADE LOCATIONS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
MD	J-BOX FOR MOTOR OPERATED DOOR OPEN/CLOSE. COORDINATE EXACT LOCATION WITH INSTALLER OF DOOR AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF DOOR.
MS	J-BOX FOR MOTOR OPERATED SHADE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLTION.
PIT	GFI RECEPTACLE IN ELEVATOR PIT. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
SIGN	J-BOX FOR BACKLIT EXTERIOR SIGNAGE. COORDINATE EXACT MOUNTING WITH INSTALLER OF BACKLIT SIGNAGE.
SUMP	GFI RECEPTACLE IN ELEVATOR PIT FOR SUMP PUMP. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
VAV	DUPLEX RECEPTACLE FOR VAV CONTROLS. COORDINATE LOCATION WITH INSTALLER OF HVAC CONTROLS.
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
A:ELEV	100/3/NF/NEMA 1 DISCONNECT FOR ELEVATOR. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE SHUNT TRIP PROTECTION FOR ELEVATOR UNLESS NOT REQUIRED BY LOCAL JURISDICTION.	22437 VA	480 V	3
M:AC	MOTOR RATED SWITCH FOR INDOOR UNIT. INDOOR UNIT IS POWERED THROUGH THE ASSOCIATED OUTDOOR UNIT.	1 VA	208 V	2
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-A	60/3/NF NEMA 1 DISCONNECT FOR WATER HEATER.	9000 VA	208 V	3

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KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

POWER PLAN - LEVEL 01 - AREA C

VOLUME 2

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Date: 07.15.2026	

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NUMBER	NOTE
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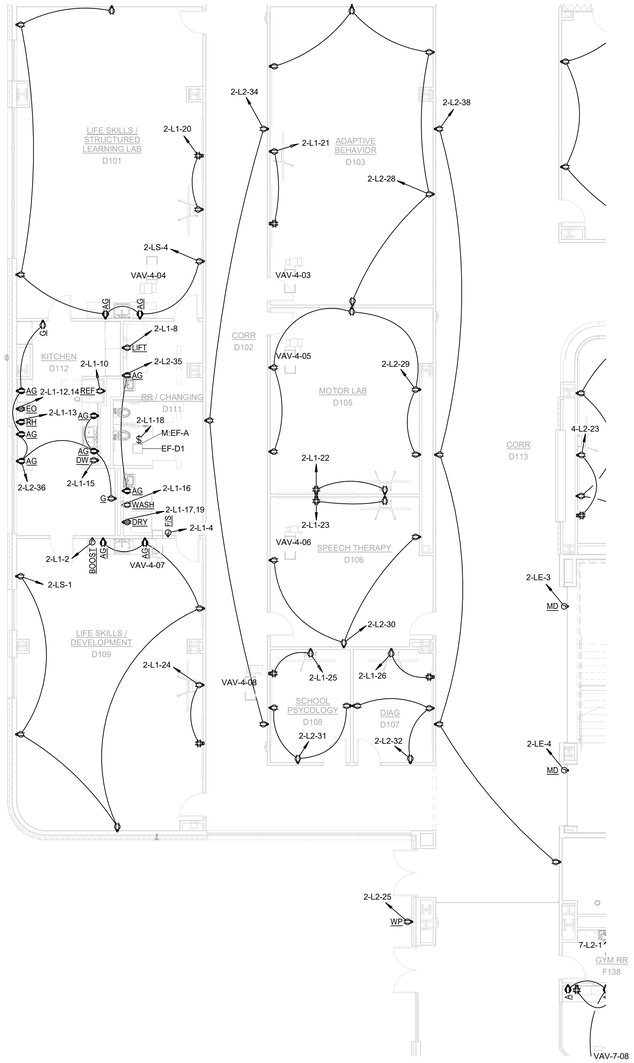
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

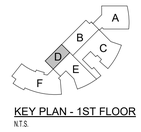
KEY	DESCRIPTION
A	ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BOOST	J-BOX FOR BOOSTER FAN. COORDINATE EXACT MOUNTING WITH INSTALLER OF BOOSTER FAN.
DRY	OUTLET FOR CLOTHES DRYER COORDINATE EXACT NEMA CONFIGURATION WITH ITEM PURCHASED BY OTHERS MOUNT AT 36" AFF. PROVIDE GFI BREAKER.
DW	DEDICATED GFI RECEPTACLE FOR DISHWASHER. MOUNT IN MILLWORK ADJACENT TO DISHWASHER SO GFI IS ACCESSABLE WITHOUT MOVING DISHWASHER.
EO	ELECTRIC RANGE/OVEN. CONFIRM EXACT ELECTRICAL REQUIREMENT WITH EQUIPMENT TO BE PURCHASED PRIOR TO INSTALLATION. PROVIDE GFI BREAKER.
F/S	J-BOX FOR FIRE SMOKE DAMPER. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL DRAWINGS.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
LIFT	GFI RECEPTACLE FOR SPED LIFT. LOCATE AT 18" AND CONFIRM EXACT LOCATION WITH INSTALLER OF LIFT.
MD	J-BOX FOR MOTOR OPERATED DOOR OPEN/CLOSE. COORDINATE EXACT LOCATION WITH INSTALLER OF DOOR AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF DOOR.
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.
RH	CONNECTION FOR RANGE HOOD. COORDINATE EXACT LOCATION WITH INSTALLER OF HOOD.
WASH	OUTLET FOR CLOTHES WASHING MACHINE COORDINATE EXACT NEMA CONFIGURATION WITH ITEM PURCHASED BY OTHERS MOUNT AT 36" AFF. PROVIDE GFI BREAKER.
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:EF-A	MOTOR RATED SWITCH FOR EXHAUST FAN.	528 VA	120 V	1



1 POWER PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
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STATE OF TEXAS
B. KYLE HASKOVEC
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POWER PLAN - LEVEL 01 - AREA D

VOLUME 2

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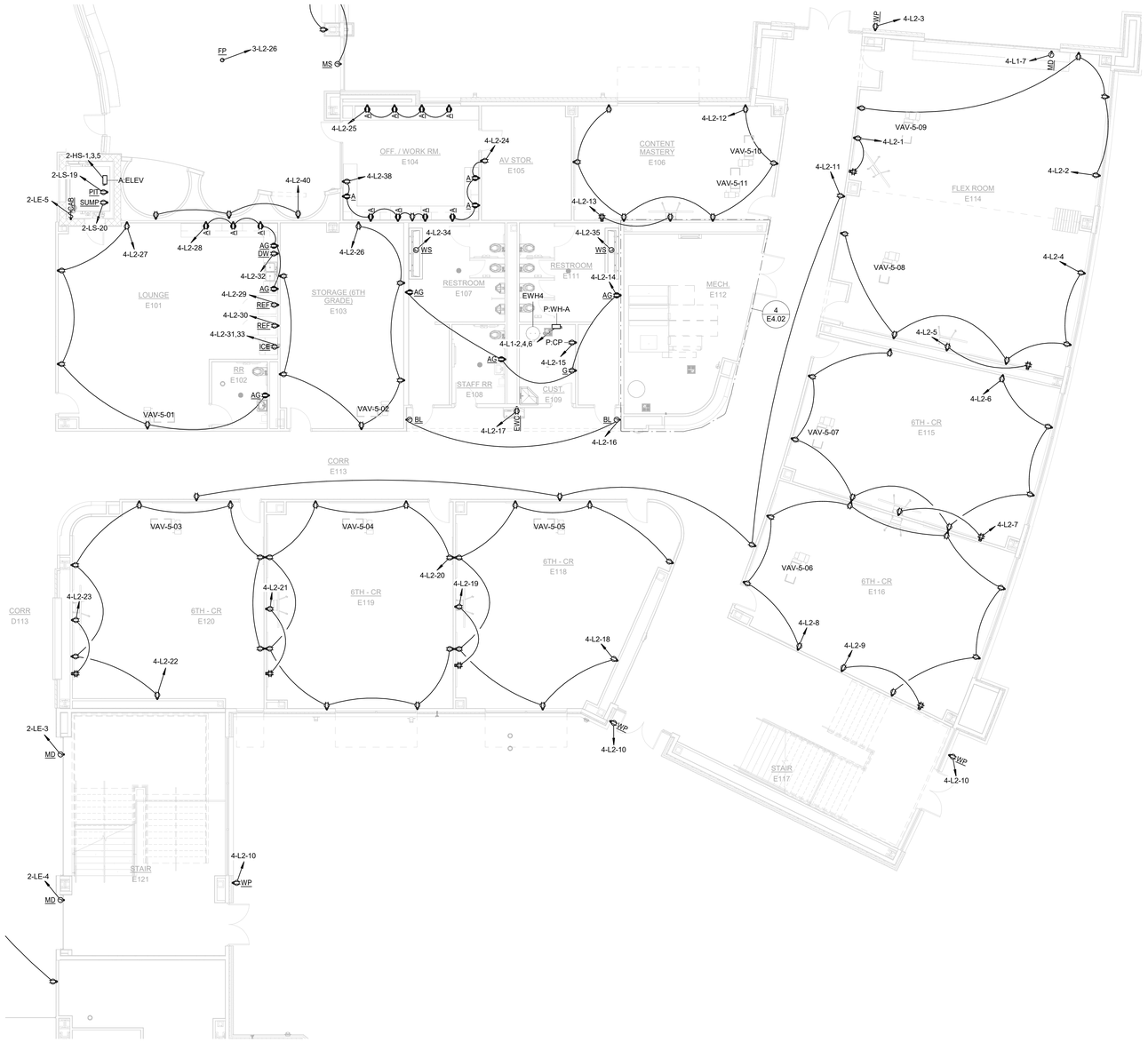
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

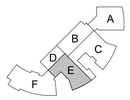
KEY	DESCRIPTION
A	ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BL	J-BOX FOR BACKLIT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER OF SIGNAGE.
CAB	LOCKABLE SWITCH FOR ELEVATOR CAB LIGHTING/POWER, COORDINATE EXACT LOCATION WITH INSTALLER OF ELEVATOR.
DW	DEDICATED GFI RECEPTACLE FOR DISHWASHER. MOUNT IN MILLWORK ADJACENT TO DISHWASHER SO GFI IS ACCESSABLE WITHOUT MOVING DISHWASHER.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
FP	FLOOR BOX WITH TWO DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WIREMOLD #RFBA4R25-OG FOR SLAB ON-GRADE LOCATIONS AND ###RFBA4R25 FOR ABOVE-GRADE LOCATIONS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
ICE	GFI RECEPTACLE FOR ICE MACHINE. COORDINATE LOCATION WITH INSTALLER OF MACHINE.
MD	J-BOX FOR MOTOR OPERATED DOOR OPEN/CLOSE. COORDINATE EXACT LOCATION WITH INSTALLER OF DOOR AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF DOOR.
MS	J-BOX FOR MOTOR OPERATED SHADE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLTION.
PIT	GFI RECEPTACLE IN ELEVATOR PIT. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.
SUMP	GFI RECEPTACLE IN ELEVATOR PIT FOR SUMP PUMP. REFER TO ELEVATOR DETAILS FOR ADDITIONAL INFORMATION
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
A:ELEV	100/3/NF/NEMA 1 DISCONNECT FOR ELEVATOR. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE SHUNT TRIP PROTECTION FOR ELEVATOR UNLESS NOT REQUIRED BY LOCAL JURISDICTION.	22437 VA	480 V	3
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-A	60/3/NF NEMA 1 DISCONNECT FOR WATER HEATER.	9000 VA	208 V	3



1 POWER PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

IEG
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POWER PLAN - LEVEL 01 - AREA E

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Job No.	Sheet No.
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NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
K:STROBE	J-BOX FOR EMERGENCY STROBE BEACON. VERIFY EXACT LOCATION OF STROBE WITH OWNER. REFER TO FOOD SERVICE DRAWINGS FOR EXACT REQUIREMENTS.	1920 VA	120 V	1
M:AHU-C	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	5320 VA	480 V	3
M:BCP	30/3/20A NEMA 1 DISCONNECT FOR BOILER CIRCULATION PUMP.	2766 VA	208 V	3
M:BOIL	30/3/20A NEMA 1 DISCONNECT FOR BOILER.	2246 VA	208 V	3
M:CHILL	600/3/NF NEMA 3R DISCONNECT FOR AIR COOLED CHILLER	448947 VA	480 V	3

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:CHWP	60/3/NF NEMA 1 DISCONNECT FOR CHILLER LOOP.	17949 VA	480 V	3
M:EF-A	MOTOR RATED SWITCH FOR EXHAUST FAN.	528 VA	120 V	1
M:FCU-A	DISCONNECT INTEGRAL TO FAN COIL UNIT.	1800 VA	277 V	1
M:HWP	30/3/NF NEMA 1 DISCONNECT FOR HEATING WATER LOOP.	9141 VA	480 V	3
M:UH-1	MOTOR RATED SWITCH FOR INDOOR UNIT HEATER.	3000 VA	208 V	2
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-A	60/3/NF NEMA 1 DISCONNECT FOR WATER HEATER.	9000 VA	208 V	3
P:WH-B	MOTOR RATED SWITCH FOR GAS WATER HEATER.	240 VA	120 V	1

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
A	ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
CDP	DUPLEX RECEPTACLE FOR CONTROL DISTRIBUTION PANEL. REFER TO THEATRICAL DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
DRY	OUTLET FOR CLOTHES DRYER COORDINATE EXACT NEMA CONFIGURATION WITH ITEM PURCHASED BY OTHERS MOUNT AT 36" AFF. PROVIDE GFI BREAKER.
EQR	DUPLEX RECEPTACLE FOR AV EQUIPMENT RACK. REFER TO THEATRICAL DRAWINGS FOR FURTHER INFORMATION.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
IRR	GFI OUTLET FOR IRRIGATION CONTROLLER. COORDINATE MOUNTING LOCATION WITH INSTALLER OF IRRIGATION SYSTEM.
MD	J-BOX FOR MOTOR OPERATED DOOR OPEN/CLOSE. COORDINATE EXACT LOCATION WITH INSTALLER OF DOOR AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF DOOR.

ELECTRICAL UNDERLINED NOTES _

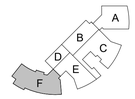
KEY	DESCRIPTION
MGL	J-BOX FOR MOTOR OPERATED GOAL LIFT. COORDINATE EXACT LOCATION WITH INSTALLER OF DOOR AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF GOAL OPERATOR.
MP	DUPLEX RECEPTACLE FOR MICROPHONE PLATE. REFER TO AV DRAWINGS FOR FURTHER INFORMATION.
MPS	J-BOX FOR MOTOR OPERATED PROJECTOR SCREEN MOUNTED ABOVE CEILING. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND PROVIDE CONTROL WIRING TO LOCATION REQUIRED BY INSTALLER OF MOTOR OPERATOR.
MS	J-BOX FOR MOTOR OPERATED SHADE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLTION.
NET	DUPLEX RECEPTACLE FOR NETWORK CONTROL STATION. REFER TO THEATRICAL DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
PB	PROVIDE 3/4" CONDUIT FOR DUPLEX RECEPTACLE TYPE L5-20R FOR MULTI-CIRCUIT PLUGGING BOX. REFER TO THEATRICAL DRAWINGS FOR EXACT LOCATION AND CONNECTION DESIGNATIONS.
PRJ	CEILING MOUNTED DUPLEX OUTLET FOR PROJECTOR. MOUNT FACING DOWN AT CEILING LEVEL.
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.
RP	DUPLEX RECEPTACLE FOR RELAY PANEL. REFER TO THEATRICAL DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
WASH	OUTLET FOR CLOTHES WASHING MACHINE COORDINATE EXACT NEMA CONFIGURATION WITH ITEM PURCHASED BY OTHERS MOUNT AT 36" AFF. PROVIDE GFI BREAKER.
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).



1 POWER PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

Date

Revision /

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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POWER PLAN - LEVEL 01 - AREA F

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ELECTRICAL GENERAL NOTES

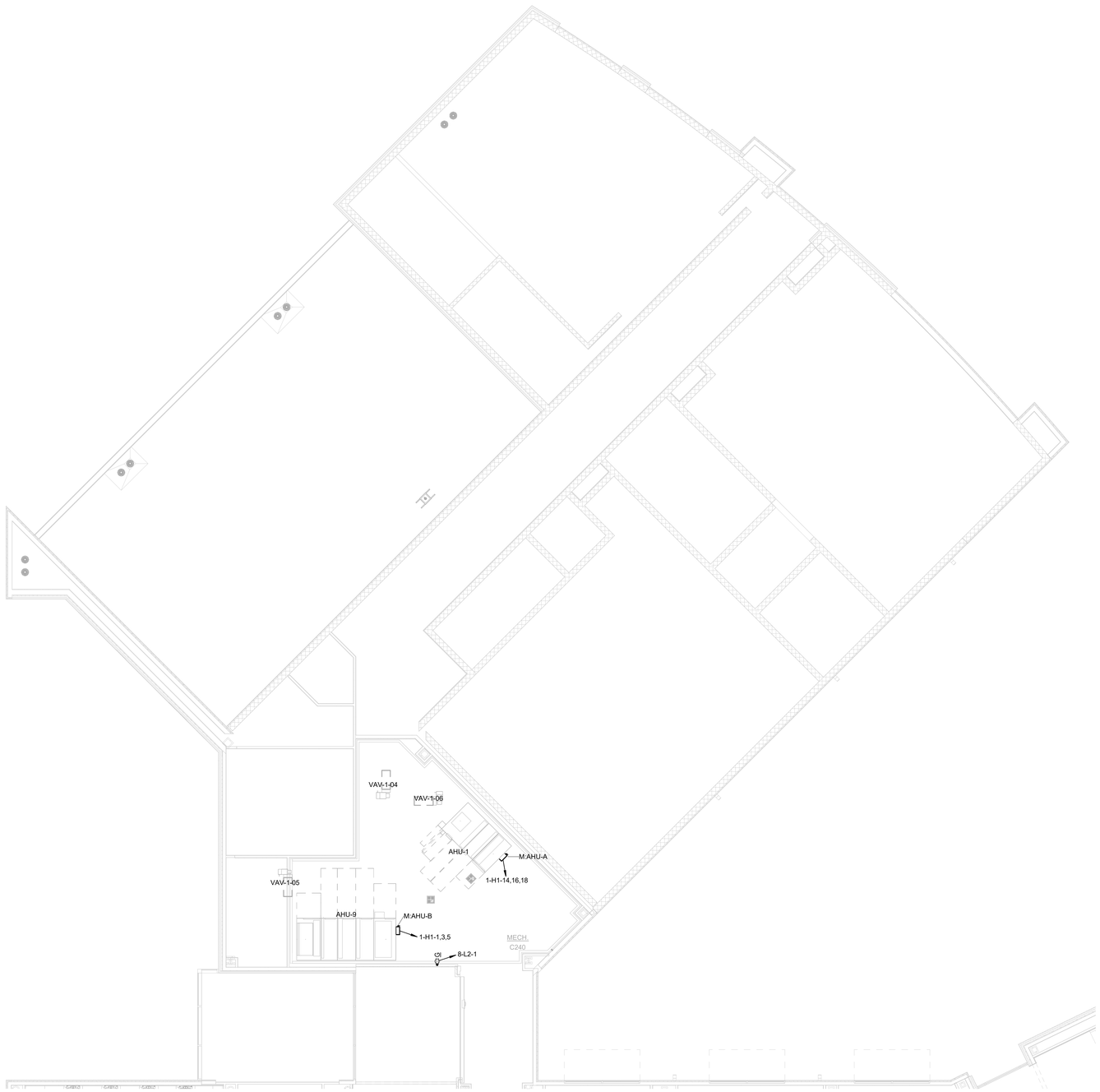
NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

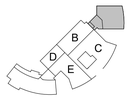
KEY	DESCRIPTION
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:AHU-A	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	9311 VA	480 V	3
M:AHU-B	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	17957 VA	480 V	3



1 POWER PLAN - LEVEL 02 - AREA A
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN

5-H2-2

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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POWER PLAN - LEVEL 02 - AREA A

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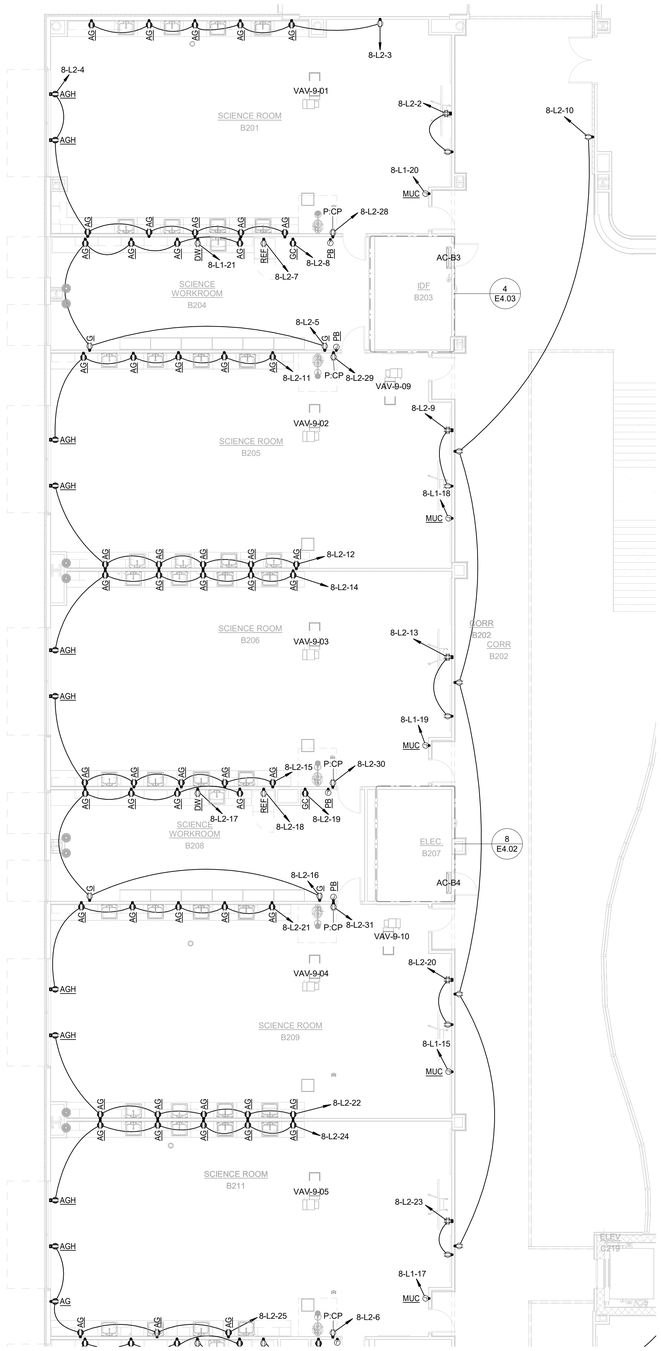
NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

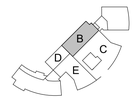
KEY	DESCRIPTION
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AGH	GFI ABOVE COUNTER HORIZONTAL RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT. CONTRACTOR TO INSTALL RECEPTACLES HORIZONTAL IN BACKSPLASH.
DW	DEDICATED GFI RECEPTACLE FOR DISHWASHER. MOUNT IN MILLWORK ADJACENT TO DISHWASHER SO GFI IS ACCESSABLE WITHOUT MOVING DISHWASHER.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
GC	GFI DUPLEX RECEPTACLE FOR GOGGLE CABINET. CONFIRM EXACT LOCATION WITH OWNER AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
MUC	LOCATION FOR MASTER UTILITY CONTROLLER. REFER TO PLUMBING DRAWINGS FOR ADDTIONAL INFORMATION. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.
PB	PANIC BUTTON FOR MASTER UTILITY CONTROLLER EMERGENCY SHUT-OFF. PROVIDE AND INSTALL AT THIS LOCATION 1-GANG FLUSH BACKBOX FOR A SURFACE MOUNT MUSHROOM SWITCH THAT ACTIVATES THE LABORATORY CLASSROOM AND PREPARATION ROOM UTILITY SHUT OFF SYSTEMS, WHICH CUT-OFF ALL UTILITIES IN THE LABORATORY CLASSROOM AND ANY ADJACENT PREPARATION ROOM. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1



1 POWER PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
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Project:
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ELECTRICAL GENERAL NOTES

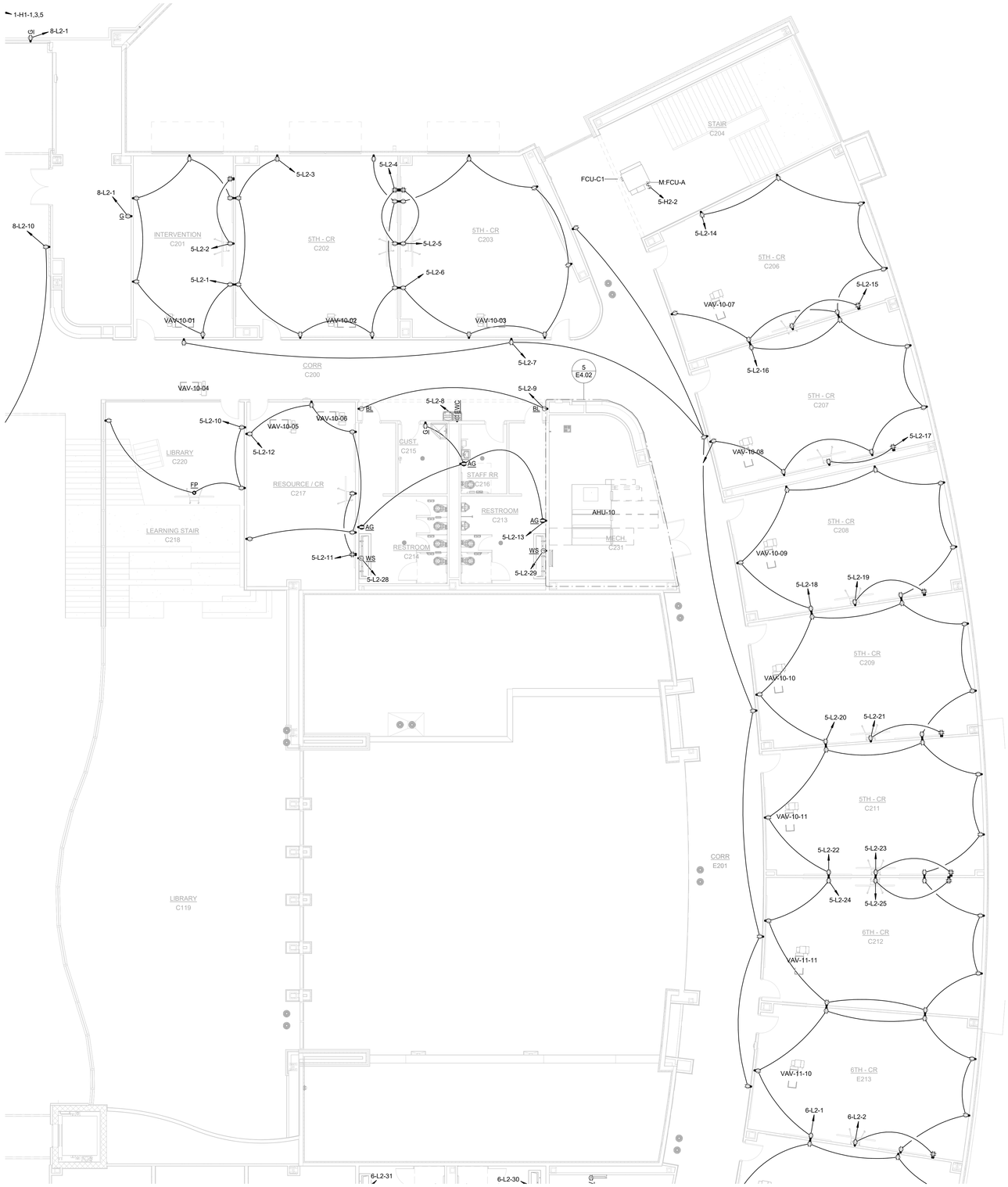
NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, *ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

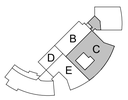
KEY	DESCRIPTION
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BL	J-BOX FOR BACKLIT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER OF SIGNAGE.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
FP	FLOOR BOX WITH TWO DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WIREMOLD #RFBA4R25-OG FOR SLAB ON-GRADE LOCATIONS AND ##RFBA4R25 FOR ABOVE-GRADE LOCATIONS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
VAV	DUPLEX RECEPTACLE FOR VAV CONTROLS. COORDINATE LOCATION WITH INSTALLER OF HVAC CONTROLS.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:FCU-A	DISCONNECT INTEGRAL TO FAN COIL UNIT.	1800 VA	277 V	1



1 POWER PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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N

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FOR
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TOMBALL, TEXAS

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POWER PLAN - LEVEL 02 - AREA C

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ELECTRICAL GENERAL NOTES

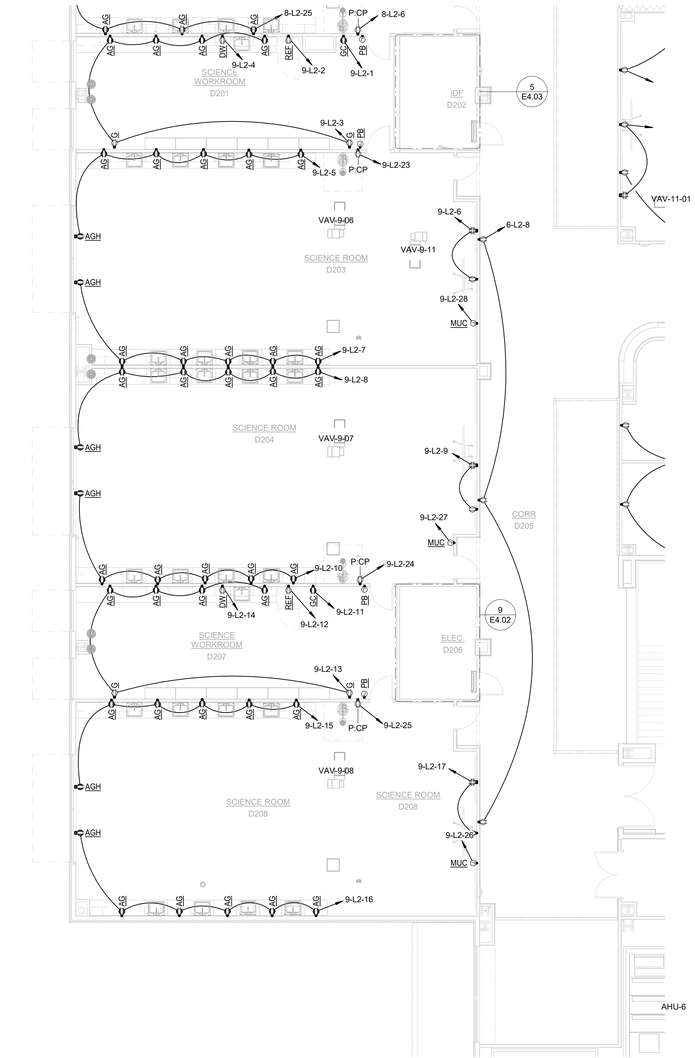
NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, "ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E.. BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

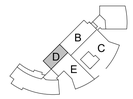
KEY	DESCRIPTION
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
AGH	GFI ABOVE COUNTER HORIZONTAL RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT. CONTRACTOR TO INSTALL RECEPTACLES HORIZONTAL IN BACKSPLASH.
DW	DEDICATED GFI RECEPTACLE FOR DISHWASHER. MOUNT IN MILLWORK ADJACENT TO DISHWASHER SO GFI IS ACCESSABLE WITHOUT MOVING DISHWASHER.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
GC	GFI DUPLEX RECEPTACLE FOR GOGGLE CABINET. CONFIRM EXACT LOCATION WITH OWNER AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
MUC	LOCATION FOR MASTER UTILITY CONTROLLER. REFER TO PLUMBING DRAWINGS FOR ADDTIONAL INFORMATION. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.
PB	PANIC BUTTON FOR MASTER UTILITY CONTROLLER EMERGENCY SHUT-OFF. PROVIDE AND INSTALL AT THIS LOCATION 1-GANG FLUSH BACKBOX FOR A SURFACE MOUNT MUSHROOM SWITCH THAT ACTIVATES THE LABORATORY CLASSROOM AND PREPARATION ROOM UTILITY SHUT OFF SYSTEMS, WHICH CUT-OFF ALL UTILITIES IN THE LABORATORY CLASSROOM AND ANY ADJACENT PREPARATION ROOM. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.
REF	GFI RECEPTACLE FOR REFRIGERATOR. COORDINATE LOCATION WITH INSTALLER OF REFRIGERATOR.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1



1 POWER PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

IEG
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POWER PLAN - LEVEL 02 - AREA D

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ELECTRICAL GENERAL NOTES

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4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
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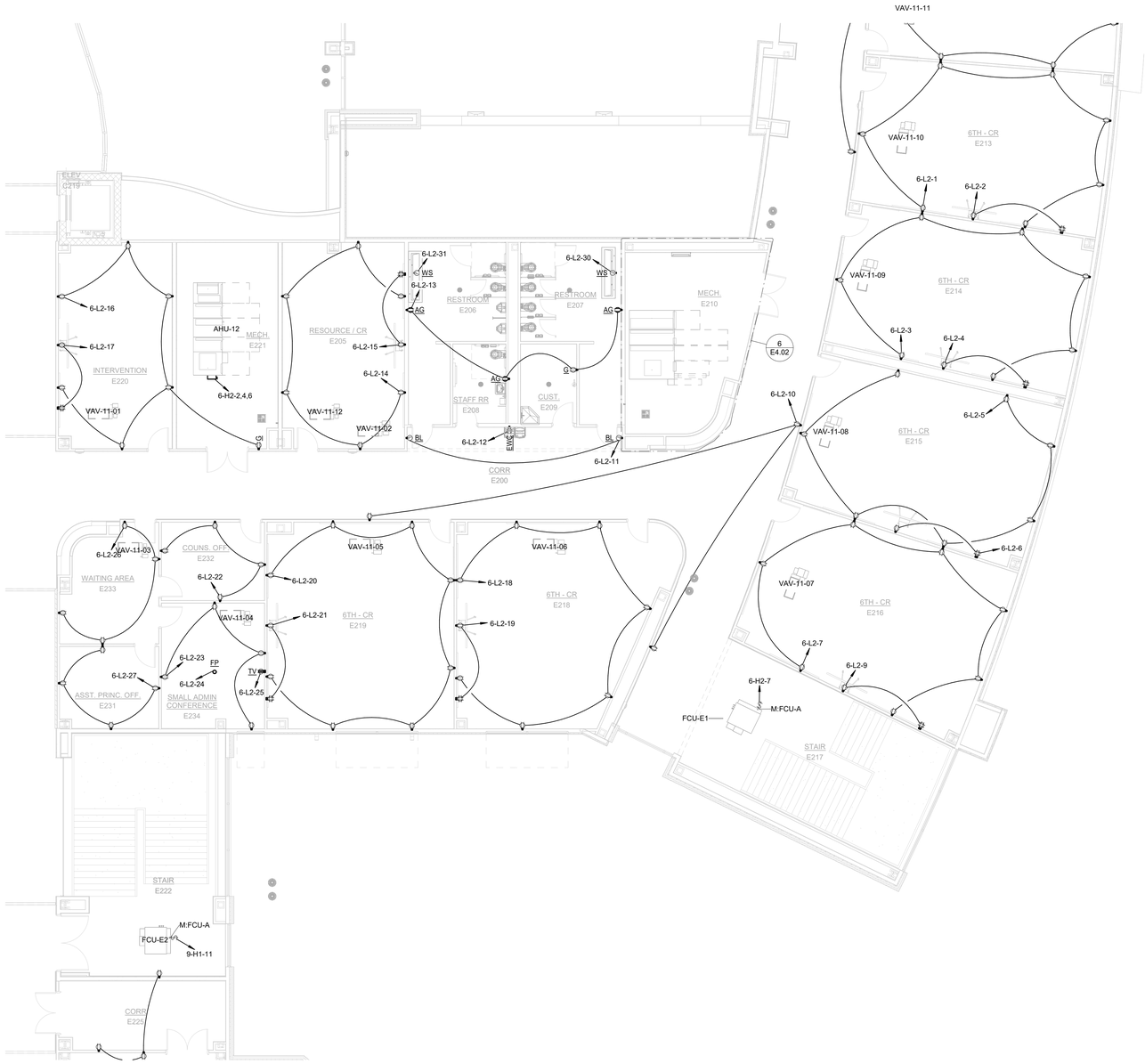
ELECTRICAL UNDERLINED NOTES _

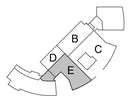
KEY	DESCRIPTION
AG	GFCI ABOVE COUNTER RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT.
BL	J-BOX FOR BACKLIT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER OF SIGNAGE.
EWC	RECEPTACLE OUTLET FOR ELECTRIC WATER COOLER, COORDINATE EXACT ELEVATION WITH INSTALLER OF EWC. REFER TO DETAIL 4/E6.02.
FP	FLOOR BOX WITH TWO DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WIREMOLD #RFBA4R25-OG FOR SLAB ON-GRADE LOCATIONS AND ##RFBA4R25 FOR ABOVE-GRADE LOCATIONS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
TV	RECESSED DUPLEX RECEPTACLE FOR TELEVISION OR DISPLAY, COORDINATE EXACT ELEVATION WITH ARCHITECT. RECEPTACLE SHALL HAVE INTEGRAL SURGE PROTECTION. PROVIDE DEDICATED GROUND IN ADDITION TO EQUIPMENT GROUND BACK TO PANEL SERVING OUTLET.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:AHU-A	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	9311 VA	480 V	3
M:FCU-A	DISCONNECT INTEGRAL TO FAN COIL UNIT.	1800 VA	277 V	1



1 POWER PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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POWER PLAN - LEVEL 02 - AREA E

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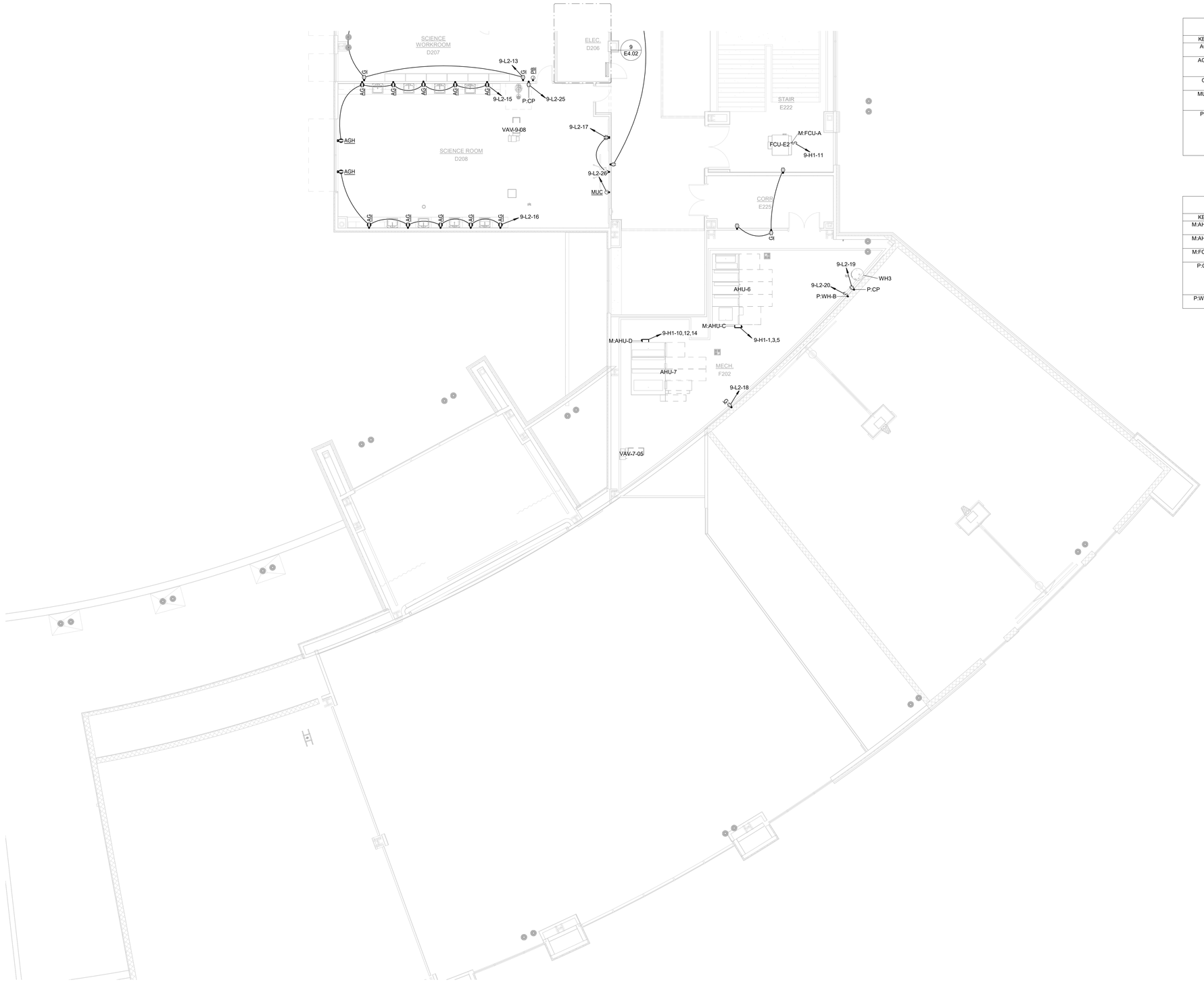

1 POWER PLAN - LEVEL 02 - AREA F
1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
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ELECTRICAL UNDERLINED NOTES _

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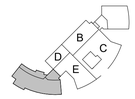
AGH	GFI ABOVE COUNTER HORIZONTAL RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT. CONTRACTOR TO INSTALL RECEPTACLES HORIZONTAL IN BACKSPLASH.
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
MUC	LOCATION FOR MASTER UTILITY CONTROLLER. REFER TO PLUMBING DRAWINGS FOR ADDITONAL INFORMATION. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.
PB	PANIC BUTTON FOR MASTER UTILITY CONTROLLER EMERGENCY SHUT-OFF. PROVIDE AND INSTALL AT THIS LOCATION 1-GANG FLUSH BACKBOX FOR A SURFACE MOUNT MUSHROOM SWITCH THAT ACTIVATES THE LABORATORY CLASSROOM AND PREPARATION ROOM UTILITY SHUT OFF SYSTEMS, WHICH CUT-OFF ALL UTILITIES IN THE LABORATORY CLASSROOM AND ANY ADJACENT PREPARATION ROOM. REFER TO DETAIL 3/E6.03 FOR ADDITIONAL INFORMATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:AHU-C	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	5320 VA	480 V	3
M:AHU-D	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	17949 VA	480 V	3
M:FCU-A	DISCONNECT INTEGRAL TO FAN COIL UNIT.	1800 VA	277 V	1
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-B	MOTOR RATED SWITCH FOR GAS WATER HEATER.	240 VA	120 V	1



KEY PLAN - 2ND FLOOR
N.T.S.

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N

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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TOMBALL, TEXAS

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POWER PLAN - LEVEL 02 - AREA F

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ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
WP	WEATHER RESISTANT GFCI RECEPTACLE IN WEATHERPROOF, EXTRA DUTY TYPE ENCLOSURE.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:CU-A	DISCONNECT INTEGRAL TO CU.	1456 VA	208 V	2
M:CU-B	DISCONNECT INTEGRAL TO CU.	4160 VA	208 V	2
M:EF-A	MOTOR RATED SWITCH FOR EXHAUST FAN.	528 VA	120 V	1
M:KEF-1	MOTOR RATED SWITCH FOR EXHAUST FAN.	3989 VA	480 V	3
M:MUA-1	DISCONNECT INTEGRAL TO AHU.	19944 VA	480 V	3

ELECTRICAL GENERAL NOTES

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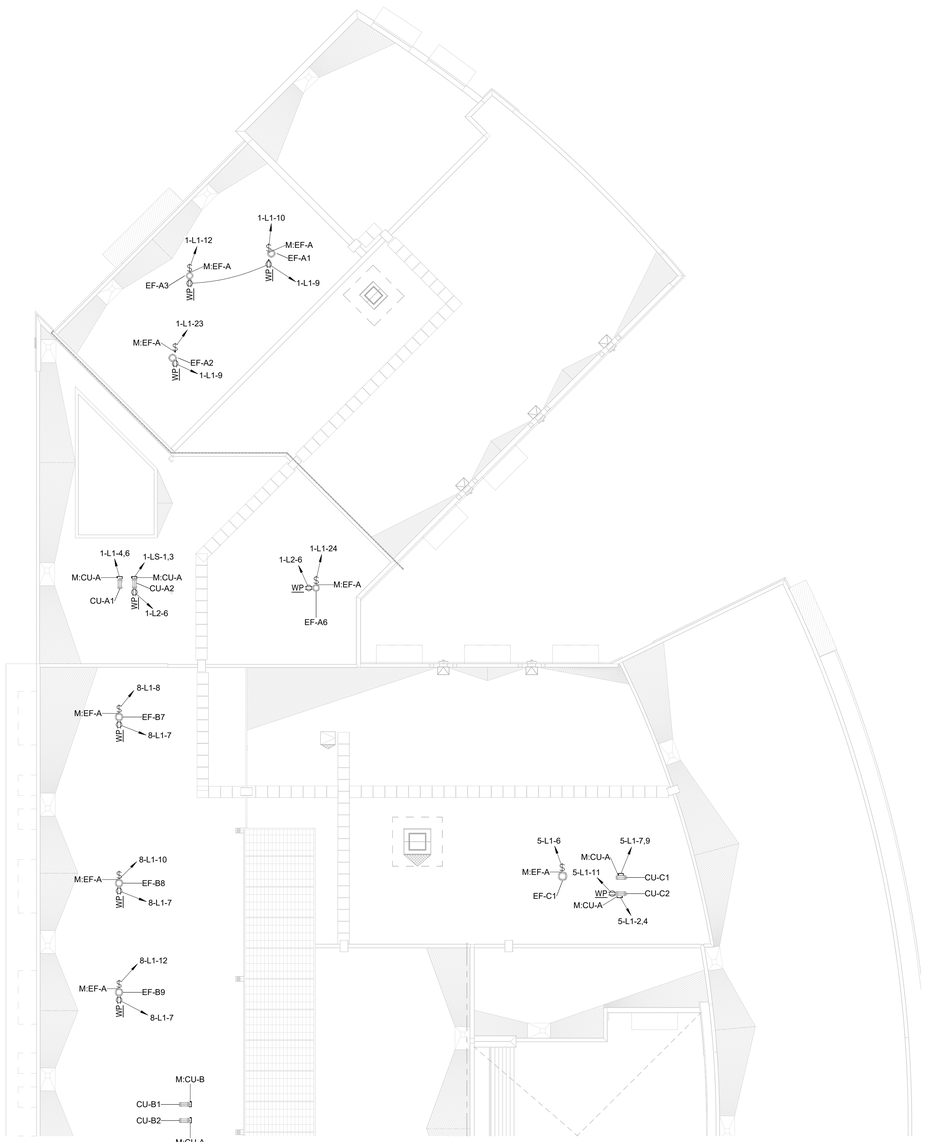

1 E2.3 POWER PLAN - ROOF PLAN NORTH
1/16" = 1'-0"



2 E2.3 POWER PLAN - ROOF PLAN SOUTH
1/16" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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ELECTRICAL ROOF PLAN

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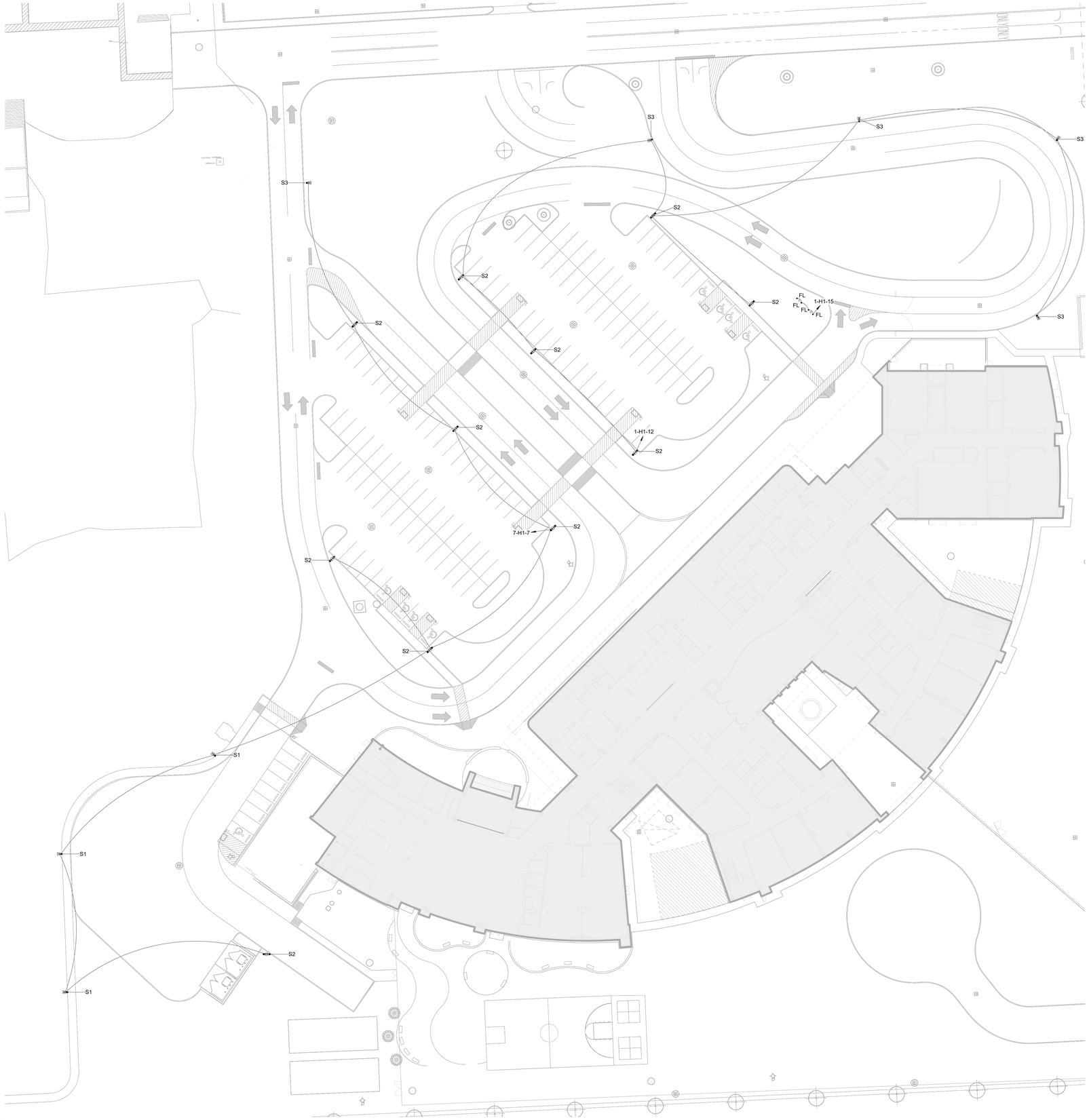

1 / E3.00 ELECTRICAL SITE LIGHTING PLAN
1" = 30'-0"

PLAN
N
TRUE

Revision / Date

Project:
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TOMBALL, TEXAS

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ELECTRICAL SITE LIGHTING PLAN

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LIGHTING PLAN GENERAL NOTES

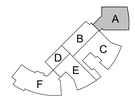
NUMBER	NOTE
1	ALL EXIT SIGNS SHALL BE POWERED FROM UNSWITCHED LEG OF LOCAL EMERGENCY CIRCUIT.

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
$f	LINE VOLTAGE FULL ON SENSOR(ON/OFF,RAISE/LOWER)USED TO DETECT OCCUPANCY INTO ROOM AND ACTIVATE LIGHTS TO 100% LIGHT LEVEL IN AREAS ALLOWED BY ENERGY CODE. AFTER ROOM IS VACATED LIGHTING WILL TURN OFF AUTOMATICALLY.
$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
$UL	UL LISTED TRANSFER DEVICE FOR EMERGENCY LIGHTING. PROVIDE ONE DEVICE PER CONTROL ROOM OR ZONE. DEVICE SHALL BYPASS LOCAL CONTROL AND FORCE EMERGENCY CIRCUITED LIGHTING ON. OCCUPANTS SHALL NOT HAVE CONTROL OF LIGHTING DURING EMERGENCY CONDITION. CONTRA
$v	LINE VOLTAGE VACANCY SENSOR(ON/OFF,RAISE/LOWER) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT.
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH, COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 01 - AREA A
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 01 - AREA A

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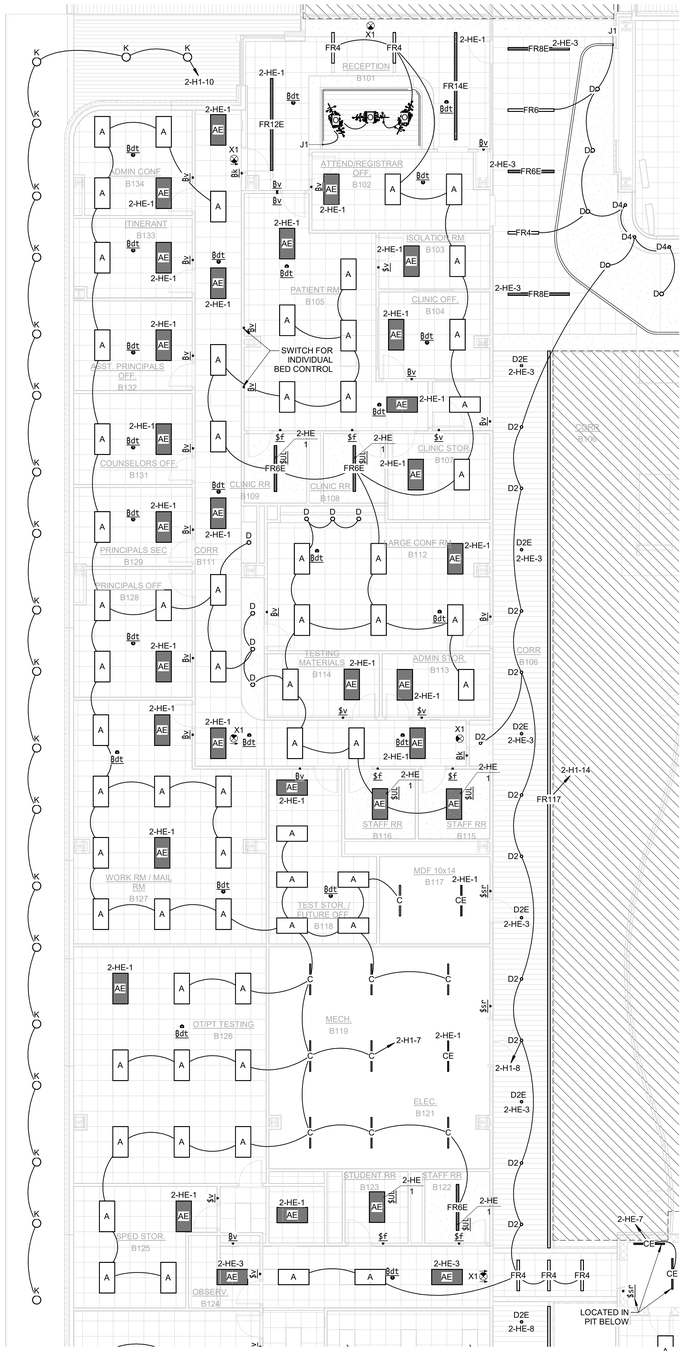
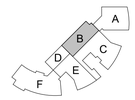
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH, COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 01 - AREA B
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 01 - AREA B

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LIGHTING PLAN GENERAL NOTES

NUMBER	NOTE
1	ALL EXIT SIGNS SHALL BE POWERED FROM UNSWITCHED LEG OF LOCAL EMERGENCY CIRCUIT.

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
$f	LINE VOLTAGE FULL ON SENSOR(ON/OFF,RAISE/LOWER)USED TO DETECT OCCUPANCY INTO ROOM AND ACTIVATE LIGHTS TO 100% LIGHT LEVEL IN AREAS ALLOWED BY ENERGY CODE. AFTER ROOM IS VACATED LIGHTING WILL TURN OFF AUTOMATICALLY.
$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
$UL	UL LISTED TRANSFER DEVICE FOR EMERGENCY LIGHTING. PROVIDE ONE DEVICE PER CONTROL ROOM OR ZONE. DEVICE SHALL BYPASS LOCAL CONTROL AND FORCE EMERGENCY CIRCUITED LIGHTING ON. OCCUPANTS SHALL NOT HAVE CONTROL OF LIGHTING DURING EMERGENCY CONDITION. CONTRA
$v	LINE VOLTAGE VACANCY SENSOR(ON/OFF,RAISE/LOWER) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT.
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
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1 LIGHTING RCP - LEVEL 01 - AREA C
1/8" = 1'-0"

2 CORRIDOR B106 STAIR LIGHTING
1/4" = 1'-0"

KEY PLAN - 1ST FLOOR
N.T.S.

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL ISD TOMBALL, TEXAS

Revision / Date

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LIGHTING RCP - LEVEL 01 - AREA C
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LIGHTING PLAN GENERAL NOTES

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ELECTRICAL UNDERLINED NOTES _

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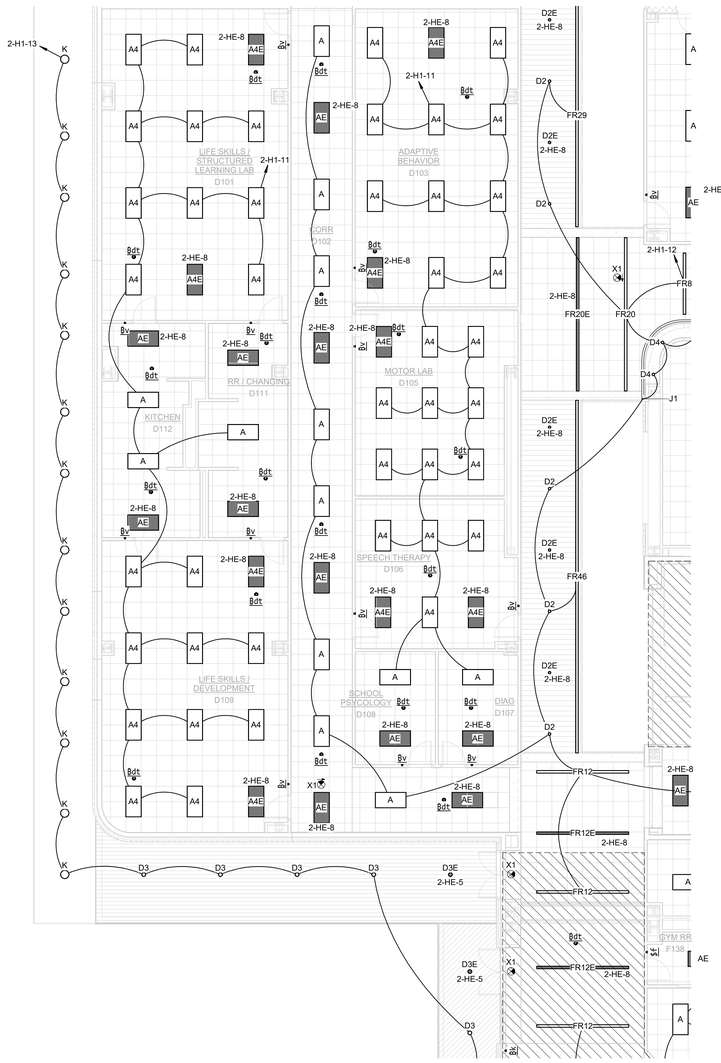
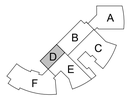


1 LIGHTING RCP - LEVEL 01 - AREA D
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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LIGHTING PLAN GENERAL NOTES

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$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
$UL	UL LISTED TRANSFER DEVICE FOR EMERGENCY LIGHTING. PROVIDE ONE DEVICE PER CONTROL ROOM OR ZONE. DEVICE SHALL BYPASS LOCAL CONTROL AND FORCE EMERGENCY CIRCUITED LIGHTING ON. OCCUPANTS SHALL NOT HAVE CONTROL OF LIGHTING DURING EMERGENCY CONDITION. CONTRA
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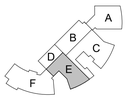
1 LIGHTING RCP - LEVEL 01 - AREA E
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

Revision / Date

Project:
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FOR
TOMBALL ISD
TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 01 - AREA E

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LIGHTING PLAN GENERAL NOTES

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ELECTRICAL UNDERLINED NOTES _

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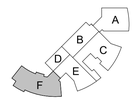
16510	Wall Surface Luminaire
X1	DECORATIVE EXIT LIGHT CEILING MOUNTED. FACE AND CHEVRONS AS SHOWN IN PLAN LOCATION
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH. COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 01 - AREA F
1/8" = 1'-0"



KEY PLAN - 1ST FLOOR
N.T.S.

PLAN N

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 01 - AREA F

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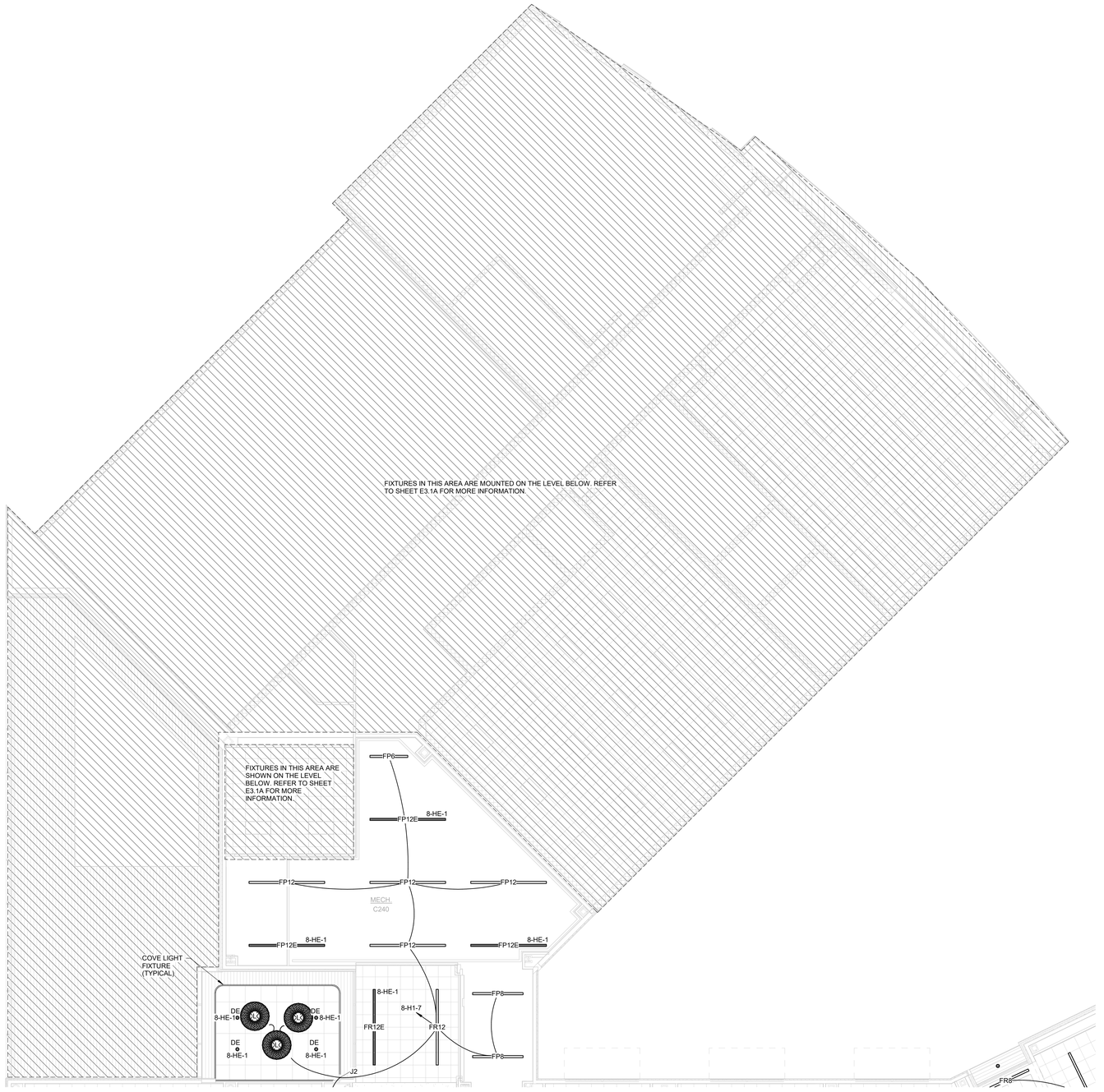
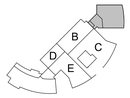
LIGHTING PLAN GENERAL NOTES

NUMBER	NOTE
1	ALL EXIT SIGNS SHALL BE POWERED FROM UNSWITCHED LEG OF LOCAL EMERGENCY CIRCUIT.



1 LIGHTING RCP - LEVEL 02 - AREA A
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN
N

Revision / Date

Project:
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FOR
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TOMBALL, TEXAS

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LIGHTING PLAN GENERAL NOTES

NUMBER	NOTE
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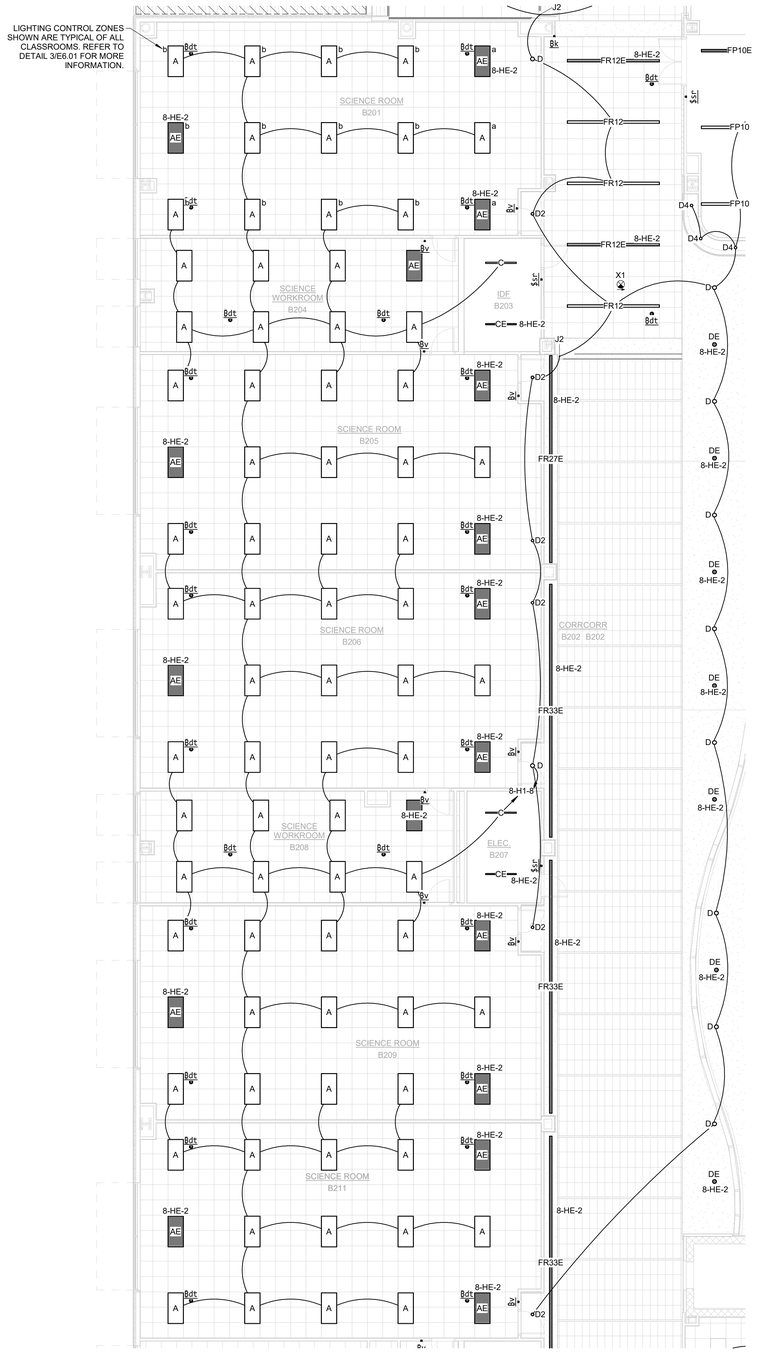
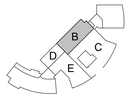
ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH, COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 02 - AREA B
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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N

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Project:
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TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 02 - AREA B

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Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
BHdt	DUAL TECHNOLOGY HIGH MOUNT SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
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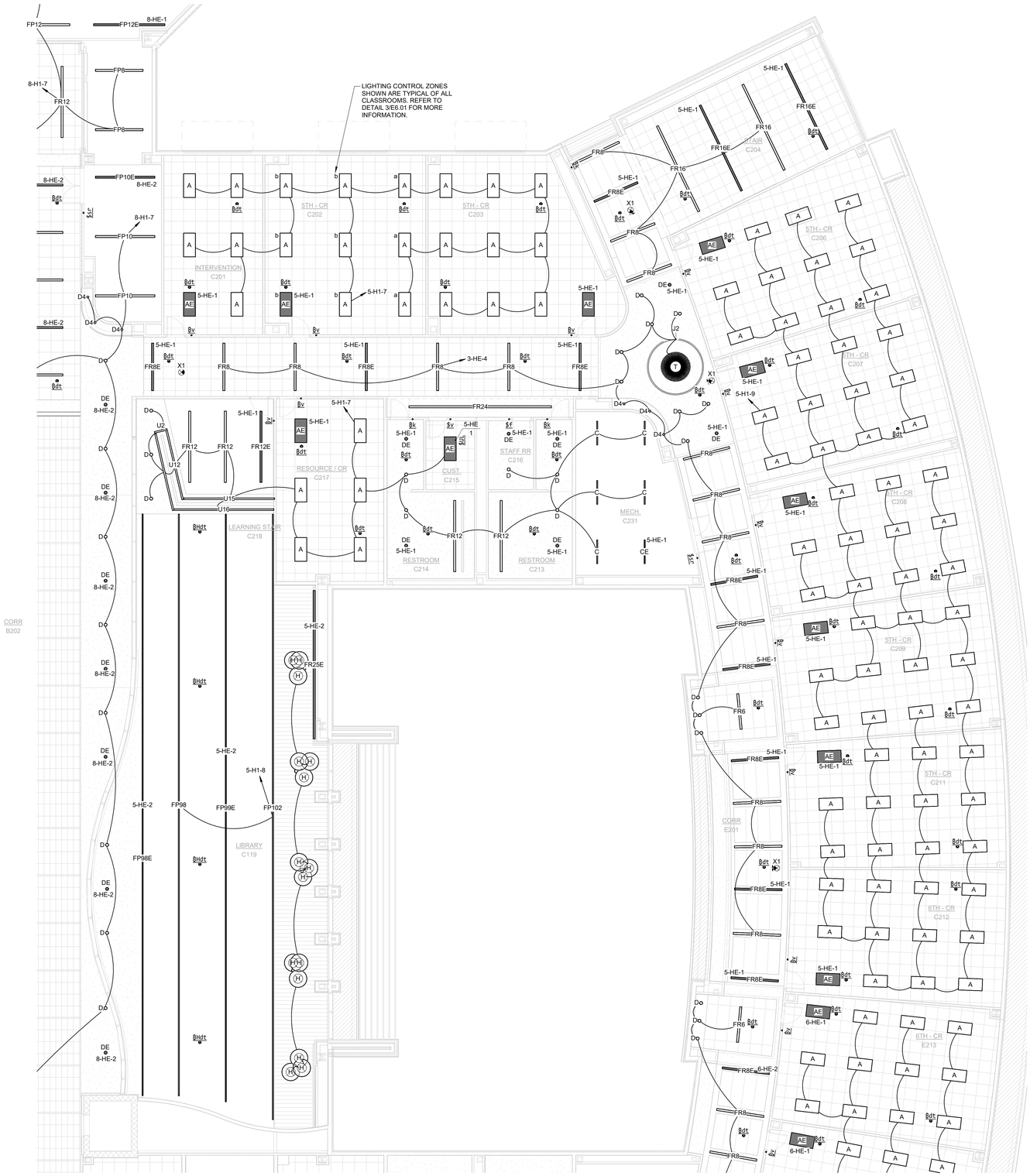
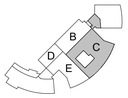


1 LIGHTING RCP - LEVEL 02 - AREA C
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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LIGHTING RCP - LEVEL 02 - AREA C

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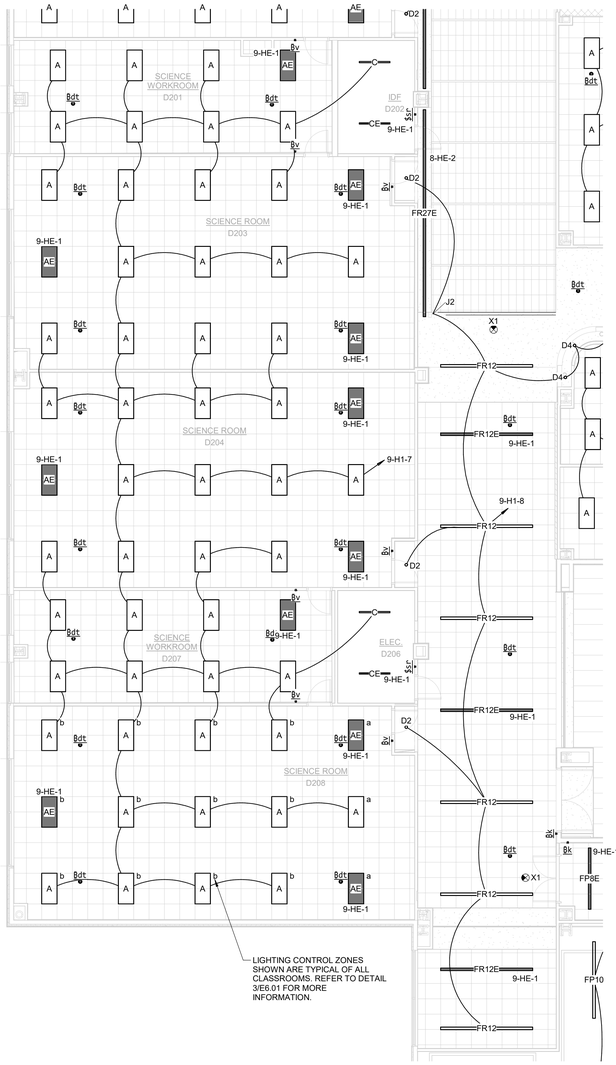
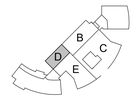


1 LIGHTING RCP - LEVEL 02 - AREA D
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

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LIGHTING PLAN GENERAL NOTES

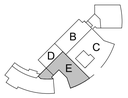
NUMBER	NOTE
1	ALL EXIT SIGNS SHALL BE POWERED FROM UNSWITCHED LEG OF LOCAL EMERGENCY CIRCUIT.

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
$f	LINE VOLTAGE FULL ON SENSOR(ON/OFF,RAISE/LOWER)USED TO DETECT OCCUPANCY INTO ROOM AND ACTIVATE LIGHTS TO 100% LIGHT LEVEL IN AREAS ALLOWED BY ENERGY CODE. AFTER ROOM IS VACATED LIGHTING WILL TURN OFF AUTOMATICALLY.
$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
$UL	UL LISTED TRANSFER DEVICE FOR EMERGENCY LIGHTING. PROVIDE ONE DEVICE PER CONTROL ROOM OR ZONE. DEVICE SHALL BYPASS LOCAL CONTROL AND FORCE EMERGENCY CIRCUITED LIGHTING ON. OCCUPANTS SHALL NOT HAVE CONTROL OF LIGHTING DURING EMERGENCY CONDITION. CONTRA
$v	LINE VOLTAGE VACANCY SENSOR(ON/OFF,RAISE/LOWER) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT.
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
BHdt	DUAL TECHNOLOGY HIGH MOUNT SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH, COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 02 - AREA E
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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LIGHTING RCP - LEVEL 02 - AREA E

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LIGHTING PLAN GENERAL NOTES

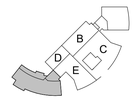
NUMBER	NOTE
1	ALL EXIT SIGNS SHALL BE POWERED FROM UNSWITCHED LEG OF LOCAL EMERGENCY CIRCUIT.

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
$sr	LINE VOLTAGE TOGGLE SWITCH FOR LOCATIONS WHERE AUTOMATIC OFF WOULD ENDANGER LIFE SAFETY.
Bdt	DUAL TECHNOLOGY SENSOR COORDINATED WITH ASSOCIATED SWITCHING SYSTEM
Bk	DIGITAL LOW VOLTAGE KEY OPERATED SWITCH. COORDINATE KEYS FOR FACILITY TO MATCH PER OWNERS REQUIREMENTS.
Bv	DIGITAL LOW VOLTAGE BUTTON PROGRAMMED TO VACANCY SENSOR(ON/OFF) USED TO ALLOW OCCUPANTS TO MANUALLY TURN LIGHTS ON WHEN THEY ENTER THE ROOM AND HAVE LIGHTS TURN OFF AUTOMATICALLY WHEN ROOM IS VACANT



1 LIGHTING RCP - LEVEL 02 - AREA F
1/8" = 1'-0"



KEY PLAN - 2ND FLOOR
N.T.S.

PLAN N

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FOR
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LIGHTING RCP - LEVEL 02 - AREA F

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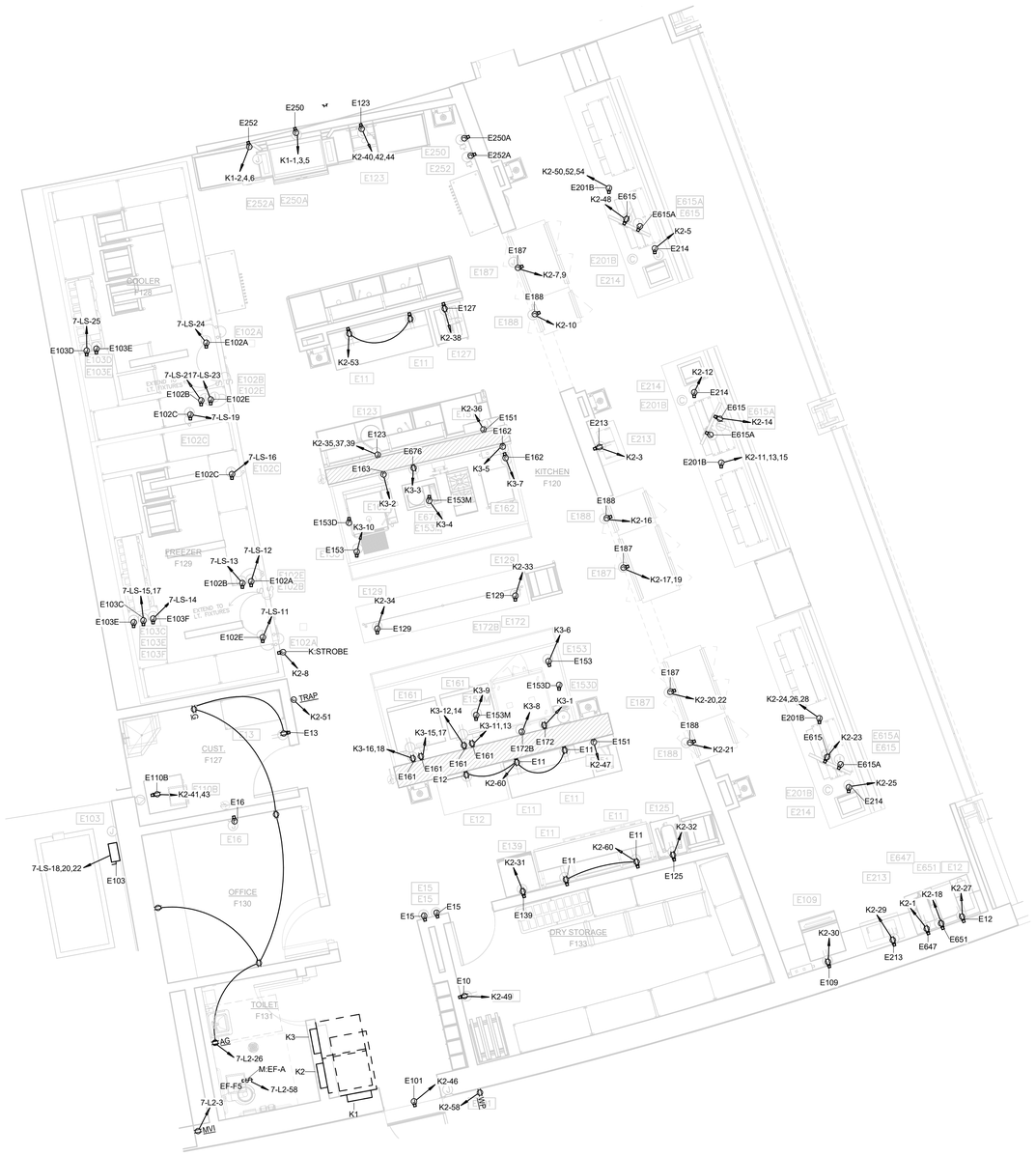

1 E4.01 ENLARGEDELECTRICAL KITCHEN PLAN
1/4" = 1'-0"

KITCHEN PLAN NOTES

NUMBER	NOTE
1	POINT OF SALE (POS) SHALL HAVE ISOLATED GROUND CONDUCTOR IN ADDITION TO EQUIPMENT GROUND CONDUCTOR.
2	KITCHEN EQUIPMENT SHOWN IS PROVIDED BY KITCHEN CONSULTANT, FOR SUPPORT ELECTRICAL CONNECTIONS TO THEIR EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT FINAL DESIGN WITH KITCHEN PROVIDER AND INSTALLER FOR ACCURACY OF INFORMATION PROVIDED. CONTRACTOR SHALL NOTIFY A/E OF ANY DISCREPANCIES WITH INFORMATION SHWON.
3	REFER TO KITCHEN DESIGNER PLANS FOR ADDITIONAL INFORMATION. ALL ELECTRICAL ITEMS INDICATED IN KITCHEN DESIGNER'S PACKAGE FOR SUPPORT OF KITCHEN EQUIPMENT SHALL BE INCLUDED WITH DIVISION 16 SCOPE OF WORK.
4	PROVIDE STANDARD DUTY KELLEM GRIP MOUNTED ABOVE CEILING AND SUPPORTED FROM STRUCTURE ABOVE TO PREVENT STRESS ON CEILING TILE FOR EACH ITEM IDENTIFIED BY KITCHEN CONSULTANT PACKAGE TO BE DROP CORD RECEPTACLE.
5	ALL DEVICE PLATES IN KITCHEN AREA TO BE TYPE 302 STAINLESS STEEL.
6	ALL 120V AND 208V, SINGLE PHASE RECEPTACLES 50 AMPS OR LESS, AND ALL 208V/3-PHASE RECEPTACLES 100 AMPS ORLESS HALL HAVE GFI PROTECTION.
7	NON GENERAL PURPOSE RECEPTACLES INDICATED ARE TO BE COORDINATED WITH EQUIPMENT INSTALLER FOR EXACT CONFIGURATION.
8	ITEMS LOCATED DIRECTLY UNDER HOOD SYSTEM ARE TO BE SHUT DOWN VIA SHUNT TRIP BREAKERS WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED.
9	ITEMS SHOWN ARE TO SUPPORT KITCHEN DESIGN PROVIDED AT TIME OF DESIGN. ALTERATIONS AND OR CHANGES IN EQUIPMENT PROVIDED FROM DESIGN SHOWN SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

FOOD SERVICE CONNECTION SCHEDULE

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
E10	CONVENIENCE RECEPTACLE WITH GFI PROTECTION MOUNTED AT 24".	180 VA	120 V	1
E11	CONVENIENCE RECEPTACLE WITH GFI PROTECTION MOUNTED HORIZONTALLY AT 47".	180 VA	120 V	1
E12	CONVENIENCE RECEPTACLE WITH GFI PROTECTION MOUNTED AT 47".	180 VA	120 V	1
E13	CONVENIENCE RECEPTACLE WITH GFI PROTECTION MOUNTED AT 48".	180 VA	120 V	1
E15	J-BOX FOR REMOTE FIRE PULL. EXTEND TO FIRE SYSTEM FOR HOOD.	1 VA	120 V	1
E16	J-BOX FOR REMOTE FIRE PULL. EXTEND TO POS SYSTEM.	1 VA	120 V	1
E101	J-BOX FOR AIR SCREEN. COORDINATE INSTALL LOCATION WITH INSTALLER OF EQUIPMENT.	1200 VA	120 V	1
E102A	J-BOX FOR DOOR HEATER/LIGHTS.	1800 VA	120 V	1
E102B	J-BOX FOR DOOR TEMP. ALARM.	600 VA	120 V	1
E102C	J-BOX FOR PRESSURE RELIEF PORT.	600 VA	120 V	1
E102E	J-BOX FOR PANIC ALARM BUTTON.	1200 VA	120 V	1
E103	60/3/NF NEMA 3R DISCONNECT FOR REFRIGERATION SYSTEM.	14410 VA	208 V	3
E103C	J-BOX FOR FREEZER COIL.	3328 VA	208 V	2
E103D	J-BOX FOR COOLER COIL.	1200 VA	120 V	1
E103E	J-BOX FOR DATA CONNECTION. PROVIDE 1" EMPTY CONDUIT AND ROUTE TO NEAREST IDF/MDF ROOM.	1 VA	120 V	1
E103F	J-BOX FOR DRAIN LINE HEATER.	1800 VA	120 V	1
E109	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR ICE MACHINE.	1440 VA	120 V	1
E110B	DUPLEX RECEPTACLE FOR STACKED WASHER AND DRYER.	6240 VA	208 V	2
E123	J-BOX FOR 3HP DISPOSER.	3990 VA	208 V	3
E125	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR 20QT. MIXER.	960 VA	120 V	1
E127	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR SLICER.	672 VA	120 V	1
E129	DROP CORD RECEPTACLE WITH GFI PROTECTION FOR TABLE POWER.	1920 VA	120 V	1
E139	SINGLE PURPOSE RECEPTACLE WITH GFI PROTECTION FOR INSULATED MOBILE PROFFER.	1800 VA	120 V	1
E151	J-BOX FOR FIRE PROTECTION SYSTEM.	120 VA	120 V	1
E153	J-BOX FOR HOOD LIGHTS.	1200 VA	120 V	1
E153D	J-BOX FOR DATA CONNECTION.	1 VA	120 V	1
E153M	J-BOX FOR HEAT SENSOR.	1200 VA	120 V	1
E161	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR CONVECTION OVEN. INSTALL ONE (1) RECEPTACLE AT 24" AND A SECOND RECEPTACLE AT 48".	3328 VA	208 V	2
E162	J-BOX FOR CONVECTION STEAMER, INSTALL ONE (1) RECEPTACLE AT 24" AND A SECOND RECEPTACLE AT 60".	480 VA	120 V	1
E163	J-BOX FOR TILT BRAISING PAN.	600 VA	120 V	1
E172	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR CONVECTION STEAMER.	1980 VA	120 V	1
E172B	DUPLEX RECEPTACLE WITH GFI PROTECTION FOR CONVECTION STEAMER.	816 VA	120 V	1
E187	J-BOX FOR HEATED CABINET. PROVIDE NEUTRAL CONDUCTOR.	3230 VA	208 V	2
E188	J-BOX FOR REFRIGERATOR.	864 VA	120 V	1
E201B	DIRECT CONNECTION FOR LOAD CENTER. VERIFY EXACT LOAD AND BREAKER SIZE WITH FOOD SERVICE PRIOR TO INSTALLATION.	10807 VA	208 V	3
E213	DUPLEX RECEPTACLE FOR ICE CREAM DISPENSER.	252 VA	120 V	1
E214	J-BOX FOR CASH REGISTER.	1920 VA	120 V	1
E250	DISCONNECT FOR DISHMACHINE.	20368 VA	480 V	3
E250A	WIRING CONNECTION FROM DISCONNECT TO DISHMACHINE.	1 VA	480 V	3
E252	DISCONNECT FOR BOOSTER HEATER.	33323 VA	480 V	3
E252A	WIRING CONNECTION FROM DISCONNECT TO BOOSTER HEATER.	1 VA	480 V	3
E615	DUPLEX RECEPTACLE WITH FOR VIDEO/DATA SYSTEM.	600 VA	120 V	1
E615A	WIRING CONNECTION FOR VIDEO/DATA SYSTEM.	1 VA	120 V	1
E647	DUPLEX RECEPTACLE WITH FOR TEA/COFFEE BREWER.	1680 VA	120 V	1
E651	DUPLEX RECEPTACLE WITH FOR ICE DISPENSER.	300 VA	120 V	1
E676	DUPLEX RECEPTACLE WITH FOR STEAM KETTLE.	600 VA	120 V	1

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ENLARGED KITCHEN PLAN

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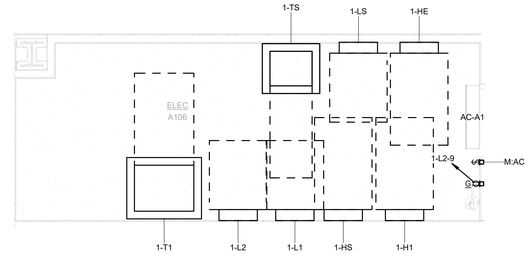
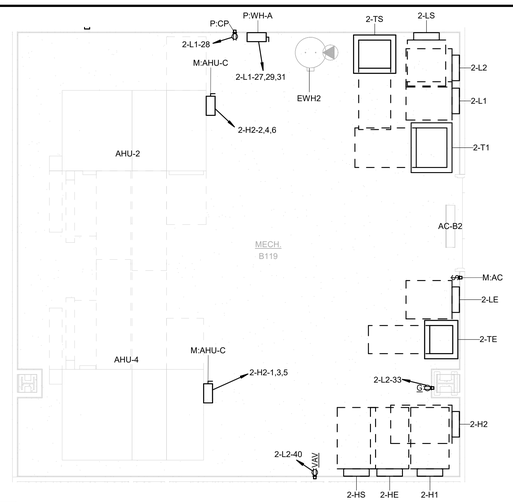
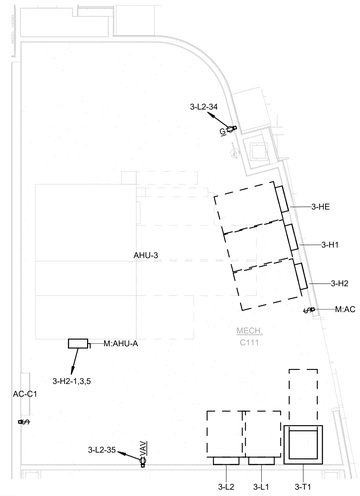


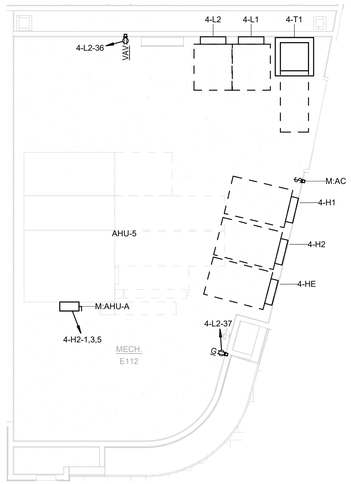
1 E4.02 POWER PLAN - ELECTRICAL ROOM A106
3/8" = 1'-0"



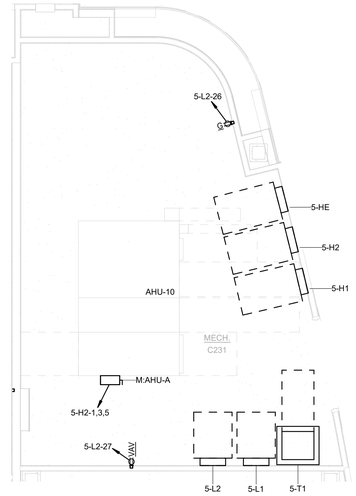
2 E4.02 POWER PLAN - MECHANICAL ROOM B119
1/4" = 1'-0"



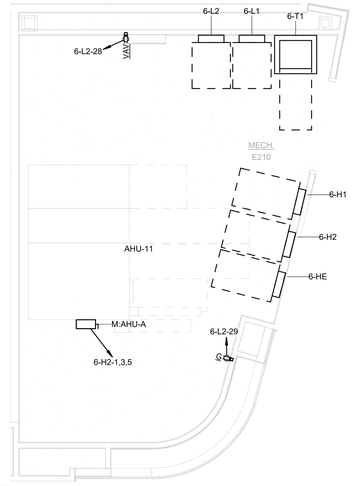
3 E4.02 POWER PLAN - MECHANICAL ROOM C111
1/4" = 1'-0"



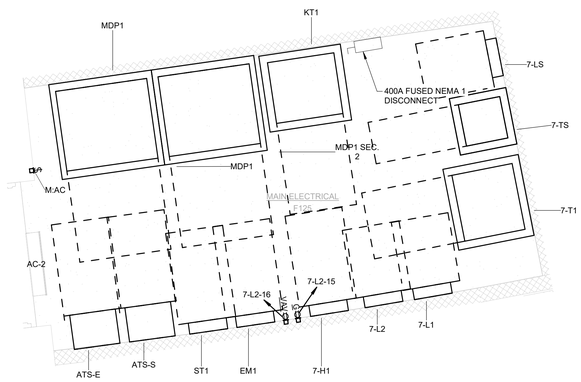
4 E4.02 POWER PLAN - MECHANICAL ROOM E112
1/4" = 1'-0"



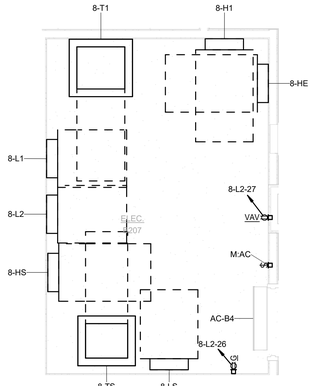
5 E4.02 POWER PLAN - MECHANICAL ROOM C212
1/4" = 1'-0"



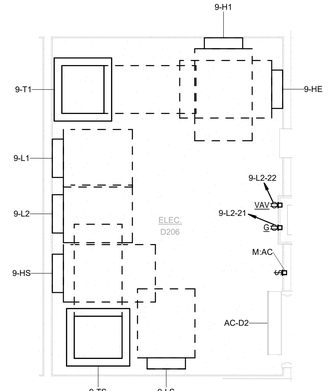
6 E4.02 POWER PLAN - MECHANICAL ROOM E210
1/4" = 1'-0"



7 E4.02 POWER PLAN - MAIN ELECTRICAL ROOM
3/8" = 1'-0"



8 E4.02 POWER PLAN - ELECTRICAL ROOM B207
3/8" = 1'-0"



9 E4.02 POWER PLAN - ELECTRICAL ROOM D206
3/8" = 1'-0"

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, *ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
G	GFCI DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
VAV	DUPLEX RECEPTACLE FOR VAV CONTROLS. COORDINATE LOCATION WITH INSTALLER OF HVAC CONTROLS.
WS	J-BOX FOR ELECTRIC WASH STATION. COORDINATE EXACT MOUNTING WITH INSTALLER OF WASH STATION.

NAMED EQUIPMENT

KEY	TYPE COMMENTS	LOAD VA	VOLTAGE	#POLE
M:AC	MOTOR RATED SWITCH FOR INDOOR UNIT. INDOOR UNIT IS POWERED THROUGH THE ASSOCIATED OUTDOOR UNIT.	1 VA	208 V	2
M:AHU-A	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	9311 VA	480 V	3
M:AHU-C	INTEGRAL DISCONNECT FOR AIR HANDLER UNIT	5320 VA	480 V	3
P:CP	DUPLEX RECEPTACLE FOR CIRCULATION PUMP AND ASSOCIATED DIGITAL THERMOSTATIC MIXING VALVE.	240 VA	120 V	1
P:WH-A	60/3/NF NEMA 1 DISCONNECT FOR WATER HEATER.	9000 VA	208 V	3

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ENLARGED ELECTRICAL ROOMS

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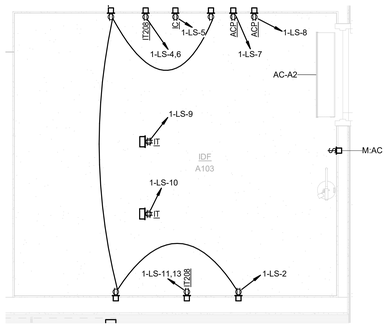
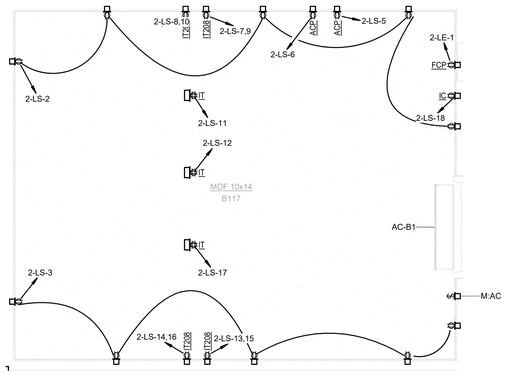
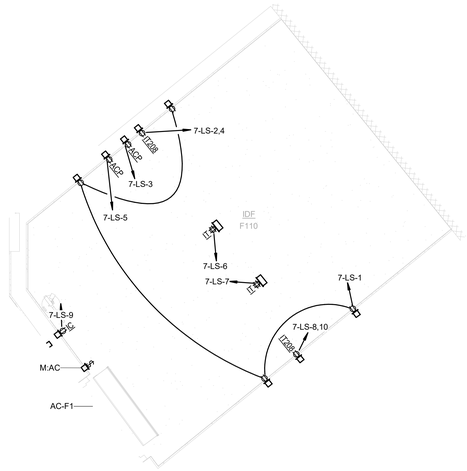


1 E4.03 POWER PLAN - IDF ROOM A103
1/2" = 1'-0"



2 E4.03 POWER PLAN - MDF ROOM B117
1/2" = 1'-0"



3 E4.03 POWER PLAN - IDF ROOM F110
1/2" = 1'-0"

4 E4.03 POWER PLAN - IDF ROOM B203
1/2" = 1'-0"

5 E4.03 POWER PLAN - IDF ROOM D202
1/2" = 1'-0"

ELECTRICAL GENERAL NOTES

NUMBER	NOTE
1	ALL EQUIPMENT IS TO BE LABELED WITH THE FOLLOWING WHEN APPLICABLE: NAME, VOLTAGE, PHASE, FUSE SIZE, INCOMING CABLE SIZE, FEED FROM NAME.
2	PROVIDE SEALING FITTINGS AT ALL PENETRATIONS THRU WALLS OF DIFFERENT TEMPERATURE SPACES.
3	PROVIDE TAMPER RESISTANT RECEPTACLES PER N.E.C. ARTICLE 406.12.
4	RECEPTACLES SHOWN FOR MAINTENANCE OF ROOF EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ROUTE CIRCUIT INSIDE OF EQUIPMENT CURB IF POSSIBLE TO REDUCE THE NUMBER OF ROOF PENETRATIONS.
5	BELOW GRADE CONDUIT SHALL BE RUN UNDER CONCRETE SLAB, AND TURNED UP, USING A 90-DEGREE FACTORY ELBOW. CONDUIT SHALL STUB UP 6" ABOVE TOP OF CONCRETE.
6	ALL DEVICES/DISCONNECTS MOUNTED EXTERIOR TO BUILDING SHALL WP AND OR NEMA 3R RATED DEVICES/DISCONNECTS.
7	IN ALL ENCLOSED OFFICES, CLASSROOMS, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR COPY OR PRINT FUNCTIONS, BREAKROOMS, TRAINING ROOMS AND INDIVIDUAL WORKSTATIONS, *ALL RECEPTACLES SHALL BE CONTROLLED (I.E. TOP CONTROLLED AND BOTTOM UNCONTROLLED UNLESS NOTED OTHERWISE. (I.E., BOTH TOP AND BOTTOM RECEPTACLES).

ELECTRICAL UNDERLINED NOTES _

KEY	DESCRIPTION
ACP	DUPLEX RECEPTACLE FOR ACCESS CONTROL PANEL. REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
FCP	DEDICATED CIRCUIT FOR FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION WITH INSTALLER OF PANEL.
IC	DUPLEX RECEPTACLE FOR INTERCOM EQUIPMENT RACK. REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
IT	QUADPLEX NEMA L5-20R RECEPTACLE FOR IT EQUIPMENT RACK. REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
IT208	L14-30R RECEPTACLE FOR EQUIPMENT RACK. REFER TO TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION AND EXACT LOCATION.
TV	RECESSED DUPLEX RECEPTACLE FOR TELEVISION OR DISPLAY. COORDINATE EXACT ELEVATION WITH ARCHITECT. RECEPTACLE SHALL HAVE INTEGRAL SURGE PROTECTION. PROVIDE DEDICATED GROUND IN ADDITION TO EQUIPMENT GROUND BACK TO PANEL SERVING OUTLET.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

IEG
Innovative Engineering Group
www.iegengineers.com
817.410.2858
TBPELS Firm No. F-5923
STATE OF TEXAS
B. KYLE HASKOVEC
143448
LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B. KYLE HASKOVEC, PE 07/15/2026

Huckabee
www.huckabee-inc.com
800.687.1229

ENLARGED IDF/MDF ROOMS

VOLUME 2

Job No.	Sheet No.
00802-04-01	E4.03
Drawn By: MH	
Date: 07.15.2026	

7/13/2026 3:07:14 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01 - Tomball ISD IS Replacement_ELEC.rvt

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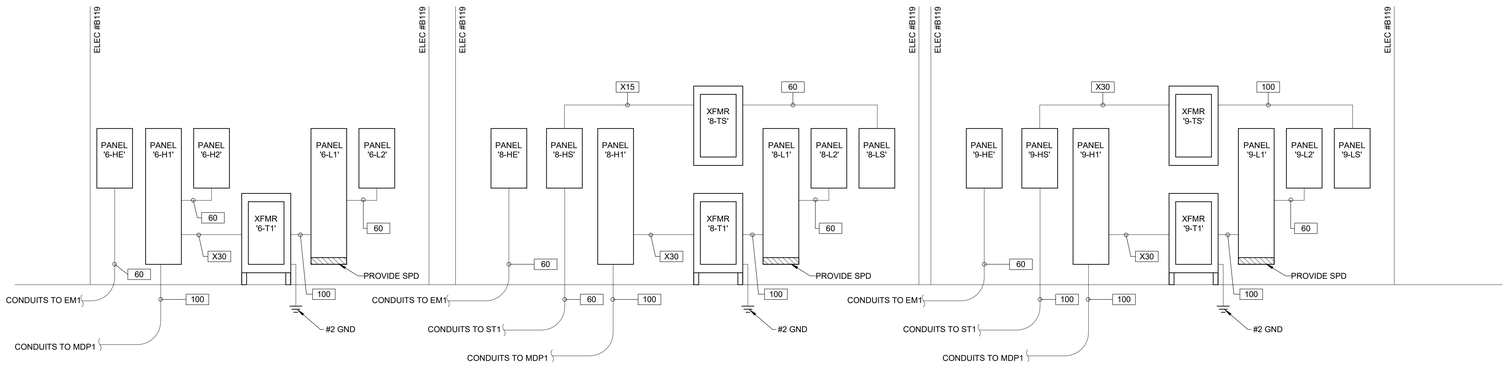
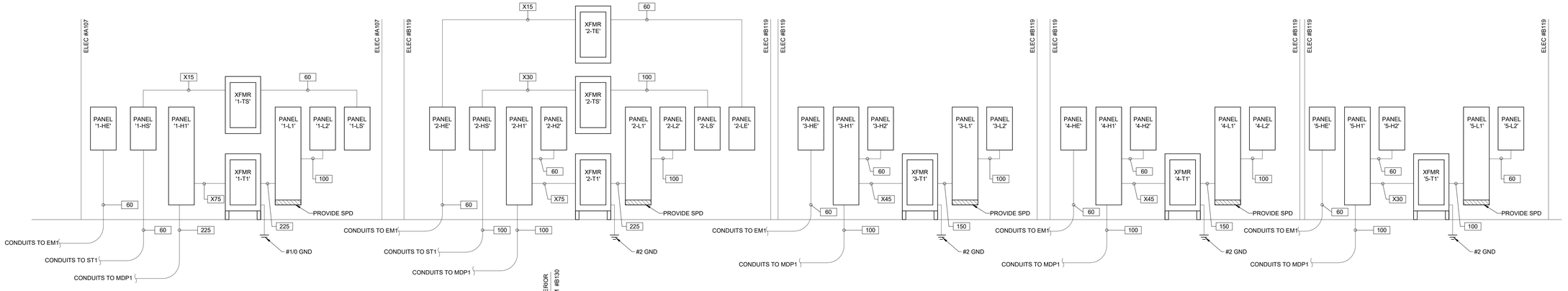
FEEDER CONDUCTOR AND CONDUIT SCHEDULE

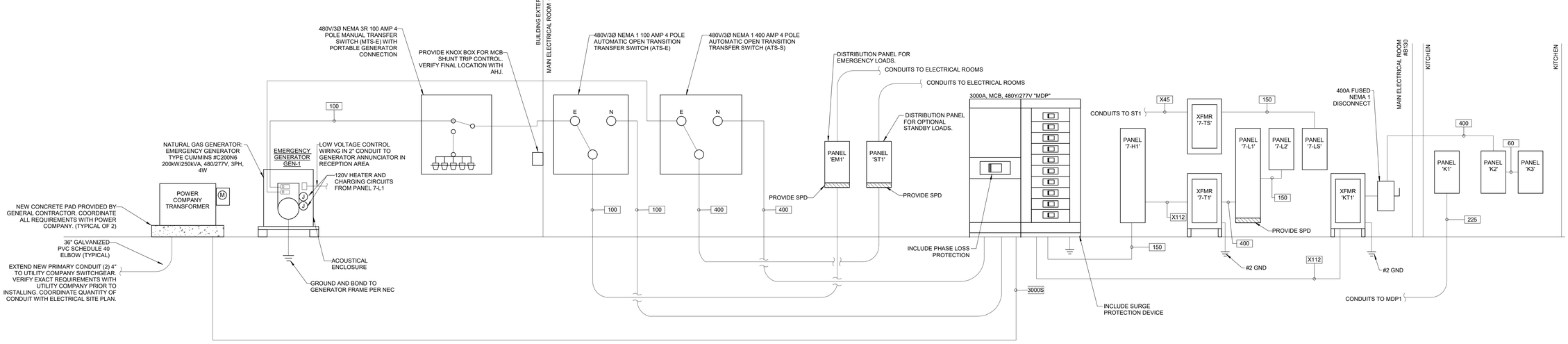
TAG	SETS	CONDUCTORS	NEUTRAL	GROUND	CONDUIT
60	1	(3) #4 AWG CU THWN	(1) #4 AWG CU THWN	(1) #10 AWG CU THWN	1-1/4"
100	1	(3) #1 AWG CU THWN	(1) #1 AWG CU THWN	(1) #8 AWG CU THWN	1-1/2"
150	1	(3) #1/0 AWG CU THWN	(1) #1/0 AWG CU THWN	(1) #6 AWG CU THWN	2"
225	1	(3) #4/0 AWG CU THWN	(1) #4/0 AWG CU THWN	(1) #4 AWG CU THWN	3"
400	1	(3) #600 MCM CU THWN	(1) #600 MCM CU THWN	(1) #3 AWG CU THWN	3-1/2"
3000S	8	(3) #600 MCM CU THWN	(1) #600 MCM CU THWN	--	4"
X15	1	(3) #10 AWG CU THWN	--	(1) #10 AWG CU THWN	3/4"
X30	1	(3) #6 AWG CU THWN	--	(1) #10 AWG CU THWN	1"
X45	1	(3) #3 AWG CU THWN	--	(1) #8 AWG CU THWN	1-1/4"
X75	1	(3) #1/0 AWG CU THWN	--	(1) #6 AWG CU THWN	2"
X112	1	(3) 2/0 AWG CU THWN	--	(1) #6 AWG CU THWN	2"

TRANSFORMER SCHEDULE

TRANSFORMER NAME	TRANSFOMER KVA RATING	LOCATION	SUPPLY FROM
1-T1	75	ELEC A106	1-H1
1-TS	15	ELEC A106	1-HS
2-T1	75	MECH. B119	2-H1
2-TE	15	ELEC. B121	2-HE
2-TS	30	MECH. B119	2-HS
3-T1	45	MECH. C111	3-H1
4-T1	45	MECH. E112	4-H1
5-T1	30	MECH. C212	5-H1
6-T1	30	MECH. E210	6-H1
7-T1	112.5	MAIN ELECTRICAL F125	7-H1
7-TS	45	MAIN ELECTRICAL F125	ST1
8-T1	30	ELEC. B207	8-H1
8-TS	15	ELEC. B207	8-HS
9-T1	30	ELEC. D206	9-H1
9-TS	30	ELEC. D206	9-HS
KT1	112.5	MAIN ELECTRICAL F125	MDP1







1 MAIN ELECTRICAL RISER DIAGRAM - TOMBALL IS
E5.01 12" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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ELECTRICAL RISER DIAGRAM

VOLUME 2

Job No.	Sheet No.
03802-04-01	E5.01
Drawn By: MH	
Date: 07.15.2026	

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PANEL: MDP1

100% FULLY RATED BREAKER

Location: MAIN ELECTRICAL... **Volts:** 480Y/277V WYE **A.I.C. Rating:** 65,000
Supply From: UTILITY **Phases:** 3 **Mains Rating:** 3000 A
Mounting: SURFACE **Wires:** 4 **Mains Type:** MCB
Enclosure: NEMA 1

CKT	Circuit Description	# of Poles	Trip Rating	Load	WIRE	Remarks
1	1-H1	3	225 A	110805 VA	RISER	
2	2-H1	3	100 A	85964 VA	RISER	
3	3-H1	3	100 A	51473 VA	RISER	
4	4-H1	3	100 A	54131 VA	RISER	
5	5-H1	3	100 A	42898 VA	RISER	
6	6-H1	3	100 A	52633 VA	RISER	
7	7-H1	3	150 A	123467 VA	RISER	
8	8-H1	3	100 A	37417 VA	RISER	
9	9-H1	3	100 A	51791 VA	RISER	
10	CH-1	3	800 A	448947 VA	RISER	
11	CH-2	3	800 A	448947 VA	RISER	
12	K1	3	225 A	101557 VA	RISER	
13	KT1	3	175 A	108605 VA	RISER	
14	ST1	3	400 A	217887 VA	RISER	
15	EM1	3	100 A	21617 VA	RISER	
16	FUTURE PORTABLE	3	400 A	0 VA	--	
17	FUTURE PORTABLE	3	400 A	0 VA	--	
18	SPARE	3	100 A	0 VA	--	
				1958130 VA		
				2355 A		

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals	
LIGHTS	80939 VA	125.00%	101174 VA		
RECEPTS.	334464 VA	51.49%	172232 VA	**Total Conn. Load:**	1958130 VA
EXHAUST FAN	23290 VA	100.00%	23290 VA	**Total Est. Demand:**	1794941 VA
WATER HEATER	54720 VA	125.00%	68400 VA	**Total Conn. Current:**	2355 A
A/C EQUIPMENT	1172544 VA	100.00%	1172544 VA	**Total Est. Demand...**	2159 A
ELEC. HEATING EQUIP.	48080 VA	125.00%	60100 VA		
KITCHEN EQUIP.	150838 VA	65.00%	98045 VA		

Panel: ST1

Location: MAIN ELECTRICAL F125 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: MDP1 **Phas...** 3 **Mains Rating:** 400 A
Mounting: **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	CHWP-2	4	70	3	5983		5983					2	
--	3	--	--	--	--		5983		5983				4	--
--	5	--	--	--	--			5983		5983			6	--
	7	HWP-2	12	20	3	3047		3047					8	
--	9	--	--	--	--		3047		3047				10	--
--	11	--	--	--	--			3047		3047			12	--
	13	1-HS	RISER	60	3	7544		22403					14	
--	15	--	--	--	--		3944		21303				16	--
--	17	--	--	--	--			6792		15039			18	--
	19	7-TS	RISER	70	3	15075		5656					20	
--	21	--	--	--	--		16259		8872				22	--
--	23	--	--	--	--			14627		6456			24	--
	25	8-HS	RISER	100	3	7912		0					26	
--	27	--	--	--	--		4312		0				28	
--	29	--	--	--	--			7512		0			30	
	31	SPARE	--	20	1	0		0					32	
	33	SPARE	--	20	1		0		0				34	
	35	SPARE	--	20	1			0		0			36	
	37	SPARE	--	20	1	0			0				38	
	39	SPARE	--	20	1		0			0			40	
	41	SPARE	--	20	1			0			0		42	
			Total Load:			76650 W	72750 W	68486 W						
			Total Amps:			279 A	265 A	247 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 217887 VA
Total Est. Demand: 178804 VA
Total Conn.: 262 A
Total Est. Demand: 215 A

Panel: EM1

Location: MAIN ELECTRICAL F125 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: MDP1 **Phas...** 3 **Mains Rating:** 100 A
Mounting: **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	1-HE	RISER	60	3	718		3720					2	
--	3	--	--	--	--		0		2698				4	--
--	5	--	--	--	--			290		--	--	--	6	--
	7	3-HE	RISER	60	3	873		775					8	
--	9	--	--	--	--		1964		65				10	--
--	11	--	--	--	--			0		0	--	--	12	--
	13	5-HE	RISER	60	3	2309		1100					14	
--	15	--	--	--	--		0		0				16	--
--	17	--	--	--	--			0		0	--	--	18	--
	19	8-HE	RISER	60	3	2512		920					20	
--	21	--	--	--	--		0		0				22	--
--	23	--	--	--	--			0		0	--	--	24	--
(L)	25	Lighting	12	20	1	1151		1806					26	(L)
(E)	27	Lighting	12	20	1		190		0				28	
	29	SPARE	--	20	1			0		0	1	20	30	
	31	SPARE	--	20	1	0			0				32	
	33	SPARE	--	20	1		0			0			34	
	35	SPARE	--	20	1			0			0	1	36	
	37	SPARE	--	20	1	0			0				38	
	39	SPARE	--	20	1		0			0			40	
	41	SPARE	--	20	1			0			0	1	42	
			Total Load:			15884 W	5443 W	290 W						
			Total Amps:			60 A	23 A	1 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 21617 VA
Total Est. Demand: 26109 VA
Total Conn.: 26 A
Total Est. Demand: 31 A

Panel: K1

Location: KITCHEN F120 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: MDP1 **Phas...** 3 **Mains Rating:** 225 A
Mounting: RECESSED **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	KITCHEN EQUIP. KITCHEN F120	8	40	3	6789			11108				3	60
--	3	--	--	--	--		6789			11108			4	--
--	5	--	--	--	--			6789			11108		6	--
(H)	7	MUA-2	6	40	3	6648		6648					3	40
--	9	--	--	--	--		6648		6648				4	--
--	11	--	--	--	--			6648		6648			6	--
(H)	13	EXHAUST FAN	12	20	3	1330		1330					3	20
--	15	--	--	--	--		1330		1330				4	--
--	17	--	--	--	--			1330		1330			6	--
	19	SPARE	--	20	1	0		0					20	
	21	SPARE	--	20	1		0		0				22	
	23	SPARE	--	20	1			0		0			24	
	25	SPARE	--	20	1	0			0				26	
	27	SPARE	--	20	1		0			0			28	
	29	SPARE	--	20	1			0			0		30	
	31	SPARE	--	20	1	0			0				32	
	33	SPARE	--	20	1		0			0			34	
	35	SPARE	--	20	1			0			0		36	
	37	SPARE	--	20	1	0			0				38	
	39	SPARE	--	20	1		0			0			40	
	41	SPARE	--	20	1			0			0		42	
			Total Load:			33852 W	33852 W	33852 W						
			Total Amps:			122 A	122 A	122 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 101557 VA
Total Est. Demand: 82765 VA
Total Conn.: 122 A
Total Est. Demand: 100 A

Panel: K2

Location: KITCHEN F120 **Volts:** 208Y/120V WYE **A.I.C. Rating:** 42,000
Supply From: KT1 **Phas...** 3 **Mains Rating:** 400 A
Mounting: RECESSED **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	KITCHEN EQUIP. DRY...	12	20	1	1680		7204					3	60
	3	ICE CREAM DISPENSER	12	20	1		252		7528				--	--
	5	CASH REGISTER	6	20	1			1920		8336			--	--
	7	HEATED CABINET	10	20	2	1615			1920				1	20
--	9	--	--	--	--		1615			864			1	20
	11	LOAD CENTER	6	40	3			3602			1920		1	20
--	13	--	--	--	--	3602			600				1	20
--	15	--	--	--	--		3602			864			1	20
	17	HEATED CABINET	10	20	2			1615			300		1	20
	19	--	--	--	--	1615			1615				2	20
	21	REFRIGERATOR	12	20	1		864			1615			--	--
	23	VIDEO-DATA SYSTEM	12	20	1			600			3602		3	40
	25	CASH REGISTER	8	20	1	1920			3602				--	--
	27	RECEPTS.	12	20	1		180			3602			--	--
	29	ICE CREAM DISPENSER	12	20	1			252			1440		1	20
	31	INSULATED MOBILE PROFFER	10	20	1	1800			960				1	20
	33	TABLE POWER	8	20	1		1920			1920			1	20
	35	DISPOSER	12	20	3			1330			120		1	20
--	37	--	--	--	--	1330			672				1	20
--	39	--	--	--	--		1330			1330			3	20
	41	WASHER/DRYER	8	40	2			3120			1330		--	--
	43	--	--	--	--	3120			1330				--	--
	45	KEF-3	12	20	1		528			1200			1	20
	47	FIRE PROTECTION SYSTEM	12	20	1			120			600		1	20
	49	RECEPTS. DRY STORAGE-1...	12	20	1	180			3602				1	20
	51	TRAP PRIMER	12	20	1		250			3602			--	--
	53	RECEPTS. KITCHEN F120	12	20	1			360			3602		--	--
	55	SPARE	--	20	1	0			1920				1	20
	57	SPARE	--	20	1		0			180			1	20
	59	SPARE	--	20	1			0			900		1	20
	61	SPARE	--	20	1	0			0				1	20
	63	SPARE	--	20	1		0			0			1	20
	65	SPARE	--	20	1			0			0		1	20
	67	SPARE	--	20	1	0			0				1	20
	69	SPARE	--	20	1		0			0			1	20
	71	SPARE	--	20	1			0			0		1	20
	73	SPARE	--	20	1	0			0				1	20
	75	SPARE	--	20	1		0			0			1	20
	77	SPARE	--	20	1			0			0		1	20
	79	SPARE	--	20	1	0			0				1	20
	81	SPARE	--	20	1		0			0			1	20
	83	SPARE	--	20	1			0			0		1	20
			Total Load:			40288 W	33247 W	35070 W						
			Total Amps:			338 A	277 A	295 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 108605 VA
Total Est. Demand: 76404 VA
Total Conn.: 301 A
Total Est. Demand: 212 A

Panel: K3

Location: KITCHEN F120 **Volts:** 208Y/120V WYE **A.I.C. Rating:** 42,000
Supply From: K2 **Phas...** 3 **Mains Rating:** 60 A
Mounting: RECESSED **Wires:** 4 **Mains Type:** SHUNT TRIP MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	CONVECTION STEAMER	12	20	1	1980		600					1	20
	3	STEAM KETTLE	12	20	1		600		1200				1	20
	5	CONVECTION STEAMER	12	20	1			480		1200			1	20
	7	CONVECTION STEAMER	12	20	1	480			816				1	20
	9	HEAT SENSOR	12	20	1		1200			1200			1	20
	11	KITCHEN EQUIP. KITCHEN F120	12	20	2			1664			1664		2	20
--	13	--	--	--	--	1664			1664				--	--
	15	KITCHEN EQUIP. KITCHEN F120	12	20	2		1664			1664			2	20
--	17	--	--	--	--			1664			1664		--	--
	19	SPARE	--	20	1	0			0				1	20
	21	SPARE	--	20	1		0			0			1	20
	23	SPARE	--	20	1			0			0		1	20
	25	SPARE	--	20	1	0			0				1	20
	27	SPARE	--	20	1		0			0			1	20
	29	SPARE	--	20	1			0			0		1	20
	31	SPARE	--	20	1	0			0				1	20
	33	SPARE	--	20	1		0			0			1	20
	35	SPARE	--	20	1			0			0		1	20
	37	SPARE	--	20	1	0			0				1	20
	39	SPARE	--	20	1		0			0			1	20
	41	SPARE	--	20	1			0			0		1	20
			Total Load:			7204 W	7528 W	8336 W						
			Total Amps:			60 A	63 A	70 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 23068 VA
Total Est. Demand: 14994 VA
Total Conn.: 64 A
Total Est. Demand: 42 A

Panel: 1-H1

Location: ELEC A106 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: MDP1 **Phas...** 3 **Mains Rating:** 225 A
Mounting: SURFACE **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-9	8	40	3	5986			27523				3	125
--	3	--	--	--	--		5986			23763			--	--
	5	--	--	--	--			5986			21879		--	--
(L)	7	LIGHTS Room 253, 113, 280, 33...	12	20	1	564			1020				1	20
(L)	9	LIGHTS	12	20	1		1505			517			1	20
(E)	11	SITE LIGHTS	12	20	1			960			2618		1	20
(H)	13	A/C EQUIPMENT Space 284	12	20	1	1800			3104				3	30
(E)	15	SITE LIGHTS	12	20	1		80			3104			--	--
	17	SPARE	--	20	1			0			3104		--	--
	19	SPARE	--	20	1	0			1800				1	20
	21	SPARE	--	20	1		0			0			1	20
	23	SPARE	--	20	1			0			0		1	20
	25	SPARE	--	20	1	0			0				1	20
	27	SPARE	--	20	1		0			0			1	20
	29	SPARE	--	20	1			0			0		1	20
	31	SPARE	--	20	1	0			0				1	20
	33	SPARE	--	20	1		0			0			1	20
	35	SPARE	--	20	1			0			0		1	20
	37	SPARE	--	20	1	0			0				1	20
	39	SPARE	--	20	1		0			0			1	20
	41	SPARE	--	20	1			0			0		1	20
			Total Load:			41796 W	34466 W	34546 W						
			Total Amps:			151 A	124 A	125 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 110805 VA
Total Est. Demand: 112824 VA
Total Conn.: 133 A
Total Est. Demand: 136 A

Panel: 1-HE

Location: ELEC A106 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: EM1 **Phas...** 3 **Mains Rating:** 60 A
Mounting: SURFACE **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS A110,A111,A112	12	20	1	478							1	20
(L)	3	LIGHTSA116, A119, A120	12	20	1		456			70			1	20
	5	SPARE	--	20	1			0			0	1	20	--
	7	SPARE	--	20	1	0			0				1	20
	9	SPARE	--	20	1		0			0			1	20
	11	SPARE	--	20	1			0			0	1	20	--
	13	SPARE	--	20	1	0			0				1	20
	15	SPARE	--	20	1		0			0			1	20
	17	SPARE	--	20	1			0			0	1	20	--
	19	SPARE	--	20	1	0			0				1	20
	21	SPARE	--	20	1		0			0			1	20
	23	SPARE	--	20	1			0			0	1	20	--
	25	SPARE	--	20	1	0			0				1	20
	27	SPARE	--	20	1		0			0			1	20
	29	SPARE	--	20	1			0			0	1	20	--
	31	SPARE	--	20	1	0			0				1	20
	33	SPARE	--	20	1		0			0			1	20
	35	SPARE	--	20	1			0			0	1	20	--
	37	SPARE	--	20	1	0			0				1	20
	39	SPARE	--	20	1		0			0			1	20
	41	SPARE	--	20	1			0			0	1	20	--
			Total Load:			718 W	526 W	0 W						
			Total Amps:			3 A	2 A	0 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 1244 VA
Total Est. Demand: 1555 VA
Total Conn.: 1 A
Total Est. Demand: 2 A

Panel: 1-HS

Location: ELEC A106 **Volts:** 480Y/277V WYE **A.I.C. Rating:** 42,000
Supply From: ST1 **Phas...** 3 **Mains Rating:** 60 A
Mounting: **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	1-TS	RISER	30	3	7544		0					2	
--	3	--	--	--	--		3944		0				4	--
--	5	--	--	--	--			6792		0			6	--
	7	SPARE	--	20	1	0			0				8	
	9	SPARE	--	20	1		0			0			10	
	11	SPARE	--	20	1			0			0	1	20	--
	13	SPARE	--	20	1	0			0				1	20
	15	SPARE	--	20	1		0			0			1	20
	17	SPARE	--	20	1			0			0	1	20	--
	19	SPARE	--	20	1	0			0				1	20
	21	SPARE	--	20	1		0			0			1	20
	23	SPARE	--	20	1			0			0	1	20	--
	25	SPARE	--	20	1	0			0				1	20
	27	SPARE	--	20	1		0			0			1	20
	29	SPARE	--	20	1			0			0	1	20	--
	31	SPARE	--	20	1	0			0				1	20
	33	SPARE	--	20	1		0			0			1	20
	35	SPARE	--	20	1			0			0	1	20	--
	37	SPARE	--	20	1	0			0				1	20
	39	SPARE	--	20	1		0			0			1	20
	41	SPARE	--	20	1			0			0	1	20	--
			Total Load:			7544 W	3944 W	6792 W						
			Total Amps:			29 A	14 A	26 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 18280 VA
Total Est. Demand: 14868 VA
Total Conn.: 22 A
Total Est. Demand: 18 A

Panel: 1-L1

Location: ELEC A106 **Volts:** 208Y/120V WYE **A.I.C. Rating:** 42,000
Supply From: 1-TT1 **Phas...** 3 **Mains Rating:** 225 A
Mounting: SURFACE **Wires:** 4 **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	1-L2	RISER	100	3	8820		600					2	
--	3	--	--	--	--		5160		728				4	--
--	5	--	--	--	--			5100		728	--	--	6	--
(H)	7	EXHAUST FAN	12	20	1	1056		1260					1	20
(R)	9	RECEPTS. ROOF	12	20	1		540		528				1	20
(R)	11	RECEPTS. ART ROOM A113	12	20	1			540		528	1	20	12	
(R)	13	RECEPTS. WP	12	20	1	180			900				1	20
(R)	15	RECEPTS. Room A113, A111-1	8	20	1		1080			900			1	20
(R)	17	RECEPTS. ART ROOM A110	12	20	1			720			360	1	20	12
(R)	19	RECEPTS. ART ROOM A110	10	20	1	720			240				1	20
(R)	21	RECEPTS. Room A121-1, 291...	8	20	1		1260			720			1	20
(H)	23	EXHAUST FAN	12	20	1			528			528	1	20	12
(R)	25	RECEPTS. A117	6	20	1	1080			540				1	20
(R)	27	RECEPTS. A110	12	20	1		540			180			1	20
(R)	29	RECEPTS. A116	10	20	1			540			3000	3	35	8
	31	ELEC. HEATING EQUIP. KILN-1...	8	40	3	9127			3000				--	--
--	33	--	--	--	--		9127			3000			--	--
--	35	--	--	--	--			9127			180	1	20	12
	37	SPARE	--	20	1	0			0				1	20
	39	SPARE	--	20	1		0			0			1	20
	41	SPARE	--	20	1			0			0		1	20
			Total Load:			27523 W	23763 W	21879 W						
			Total Amps:			232 A	200 A	182 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 73164 VA
Total Est. Demand: 73489 VA
Total Conn.: 203 A
Total Est. Demand: 204 A

Panel: 1-L2

Location: ELEC A106 **Volts:** 208Y/120V WYE **A.I.C. Rating:** 42,000
Supply From: 1-L1 **Phas...** 3 **Mains Rating:** 100 A
Mounting: SURFACE **Wires:** 4 **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	RECEPTS.	4	20	1	1800			1800				1	20
(R)	3	MISCELLANEOUS	2	20	1		1500			1800			--	--
(R)	5	RECEPTS.	12	20	1			360			360	1	20	12
(R)	7	RECEPTS.	4

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Panel: 2-H1

Location: ELEC. B121 — **Volts:** 480Y/277V WYE — **A.I.C. Rating:** 42,000
Supply From: MDP1 — **Phas...** 3 — **Mains Rating:** 100 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	2-H2	RISER	60	3	3547			25386			3	125	RISER	2-T2	2	
--	3	--	--	--	--		3547			20066		--	--	--	--	4	--
--	5	--	--	--	--			3547			22034	--	--	--	--	6	--
(L)	7	LIGHTS Room B135, B123, B11...	10	20	1	3138			728			1	20	12	LIGHTS Room B139, 133	8	(L)
(L)	9	LIGHTS CORR B106	12	20	1		35			525		1	20	12	EXTERIOR LIGHTS	10	(E)
(L)	11	LIGHTS D101, D103, D105	12	20	1			1551			1140	1	20	12	LIGHTS D102	12	(L)
(E)	13	EXTERIOR LIGHTS	12	20	1	445			276			1	20	12	LIGHTS B106	14	(L)
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				33520 W		24173 W			28272 W						
		Total Amps:				123 A		87 A			104 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 85964 VA
Total Est. Demand: 82209 VA
Total Conn.: 103 A
Total Est. Demand: 99 A

Panel: 2-H2

Location: ELEC. B121 — **Volts:** 480Y/277V WYE — **A.I.C. Rating:** 42,000
Supply From: 2-H1 — **Phas...** 3 — **Mains Rating:** 60 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-4	12	20	3	1773			1773			3	20	12	AHU-2	2	(H)
--	3	--	--	--	--		1773			1773		--	--	--	--	4	--
--	5	--	--	--	--			1773			1773	--	--	--	--	6	--
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				3547 W		3547 W			3547 W						
		Total Amps:				13 A		13 A			13 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 10640 VA
Total Est. Demand: 10640 VA
Total Conn.: 13 A
Total Est. Demand: 13 A

Panel: 2-HE

Location: ELEC. B121 — **Volts:** 480Y/277V WYE — **A.I.C. Rating:** 42,000
Supply From: EM1 — **Phas...** 3 — **Mains Rating:** 60 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS Room B117, B119	12	20	1	1090						3	25	RISER	2-TE	2	
(L)	3	LIGHTS B106	12	20	1		298				2400	--	--	--	--	4	--
(E)	5	LIGHTS B106	12	20	1			40			250	--	--	--	--	6	--
(L)	7	LIGHTS ELEVATOR	12	20	1	76			1554			1	20	12	LIGHTS D101, D103, D105	8	(L)
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				3720 W		2698 W			290 W						
		Total Amps:				15 A		11 A			1 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 6708 VA
Total Est. Demand: 7473 VA
Total Conn.: 8 A
Total Est. Demand: 9 A

Panel: 2-HS

Location: ELEC. B121 — **Volts:** 480Y/277V WYE — **A.I.C. Rating:** 42,000
Supply From: ST1 — **Phas...** 3 — **Mains Rating:** 100 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(P)	1	ELEVATOR	8	40	3	7479			14924			3	50	RISER	2-TS	2	
--	3	--	--	--	--		7479			13824		--	--	--	--	4	--
--	5	--	--	--	--			7479			7560	--	--	--	--	6	--
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				22403 W		21303 W			15039 W						
		Total Amps:				84 A		80 A			54 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 58745 VA
Total Est. Demand: 52650 VA
Total Conn.: 71 A
Total Est. Demand: 63 A

Panel: 2-L1

Location: MECH. B119 — **Volts:** 208Y/120V WYE — **A.I.C. Rating:** 42,000
Supply From: 2-T1 — **Phas...** 3 — **Mains Rating:** 225 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	2-L2	RISER	100	3	10180			1200			1	20	12	A/C EQUIPMENT DEVELOPMENT...	2	
--	3	--	--	--	--		11440			250		1	20	12	MISCELLANEOUS RR / CHANGING...	4	
--	5	--	--	--	--			10020			0	1	20	--	SPARE	6	
(H)	7	EXHAUST FAN	10	20	1	1056			1800			1	20	12	MISCELLANEOUS	8	
(H)	9	EXHAUST FAN	12	20	1		1056			600		1	20	10	MISCELLANEOUS	10	
(H)	11	EXHAUST FAN Room B123, B122	12	20	1			1056			3850	2	40	8	ELEC. HEATING EQUIP. Space 175	12	(H)
(R)	13	MISCELLANEOUS KITCHEN...	12	20	1	180			3850			--	--	--	--	14	--
(R)	15	MISCELLANEOUS KITCHEN...	6	20	1		1200			1200		1	20	6	MISCELLANEOUS Space 145	16	(R)
(H)	17	ELEC. HEATING EQUIP. RR / ...	8	30	2			2500			528	1	20	10	EXHAUST FAN	18	(H)
--	19	--	--	--	--	2500			540			1	20	12	RECEPTS. D101	20	(R)
(R)	21	RECEPTS. ADAPTIVE...	12	20	1		540			540		1	20	10	RECEPTS. D105	22	(R)
(R)	23	RECEPTS. SPEECH THERAPY...	10	20	1			540			540	1	20	10	RECEPTS. D109	24	(R)
(R)	25	RECEPTS. D108	10	20	1	540			540			1	20	10	RECEPTS. D107	26	(R)
	27	WATER HEATER MECH. B119	8	35	3		3000			240		1	20	12	RECEPTS. MECH. B119	28	(R)
--	29	--	--	--	--			3000			0	1	20	--	SPARE	30	
--	31	--	--	--	--	3000			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				25386 W		20066 W			22034 W						
		Total Amps:				214 A		167 A			186 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 67486 VA
Total Est. Demand: 61771 VA
Total Conn.: 187 A
Total Est. Demand: 171 A

Panel: 2-L2

Location: MECH. B119 — **Volts:** 208Y/120V WYE — **A.I.C. Rating:** 42,000
Supply From: 2-L1 — **Phas...** 3 — **Mains Rating:** 100 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. WORK RM / MAIL R...	12	20	1	720				1800		1	20	6	RECEPTS. RECEPTION B101	2	
	3	RECEPTS. ATTENDI/REGISTRA...	8	20	1		1260				1080	1	20	8	RECEPTS. B134	4	
	5	RECEPTS. ADMIN CONF B134	12	20	1			180			180	1	20	12	RECEPTS. B134	6	
	7	RECEPTS. Room B133	8	20	1	1080			1080			1	20	8	RECEPTS. B132	8	
	9	RECEPTS. B131	8	20	1		1080			1080		1	20	8	RECEPTS. Room B129	10	
	11	RECEPTS. RECEPTION B101	12	20	1			720			720	1	20	10	RECEPTS. Room B127	12	
	13	RECEPTS. WORK RM / MAIL R...	10	20	1	720			1000			1	20	10	MISCELLANEOUS	14	
	15	MISCELLANEOUS WORK RM /...	10	20	1		1000			1260		1	20	12	RECEPTS. B118	16	
	17	RECEPTS. Room B116, B115,...	6	20	1			1440			1080	1	20	10	RECEPTS. LARGE CONF RM B112	18	
	19	RECEPTS. LARGE CONF RM	12	20	1	360			180			1	20	12	RECEPTS. LARGE CONF RM B112	20	
	21	RECEPTS. Room B108, B109	12	20	1		540			1260		1	20	8	RECEPTS. Room B212, B105	22	
	23	RECEPTS. B106	10	20	1			900			1200	1	20	10	MISCELLANEOUS	24	
	25	RECEPTS.	12	20	1	180			900			1	20	10	RECEPTS. Room B123, B122, B213	26	
	27	RECEPTS. Room B126	10	20	1		900			900		1	20	10	RECEPTS. ADAPTIVE BEHAVIOR...	28	
	29	RECEPTS. MOTOR LAB D105	8	20	1			900			540	1	20	10	RECEPTS. Room D106	30	
	31	RECEPTS. D108	10	20	1	540			540			1	20	10	RECEPTS. Room D107	32	
	33	RECEPTS. ELEC. B121	12	20	1		180			540		1	20	12	RECEPTS. D102	34	
	35	RECEPTS. RR / CHANGING...	12	20	1			360			1260	1	20	6	RECEPTS. KITCHEN D112	36	
	37	RECEPTS. WORK RM / MAIL R...	12	20	1	360			720			1	20	8	RECEPTS. D113	38	
	39	RECEPTS. B101	12	20	1		180			180		1	20	12	MISCELLANEOUS	40	
	41	SPARE	--	20	1			0			540	1	20	12	RECEPTS. WORK RM / MAIL RM B127	42	
	43	SPARE	--	20	1	0			0			1	20	--	SPARE	44	
	45	SPARE	--	20	1		0			0		1	20	--	SPARE	46	
	47	SPARE	--	20	1			0			0	1	20	--	SPARE	48	
	49	SPARE	--	20	1	0			0			1	20	--	SPARE	50	
	51	SPARE	--	20	1		0			0		1	20	--	SPARE	52	
	53	SPARE	--	20	1			0			0	1	20	--	SPARE	54	
	55	SPARE	--	20	1	0			0			1	20	--	SPARE	56	
	57	SPARE	--	20	1		0			0		1	20	--	SPARE	58	
	59	SPARE	--	20	1			0			0	1	20	--	SPARE	60	
		Total Load:				10180 W		11440 W			10020 W						
		Total Amps:				85 A		96 A			84 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 31640 VA
Total Est. Demand: 22510 VA
Total Conn.: 88 A
Total Est. Demand: 62 A

Panel: 2-LE

Location: MECH. B119 — **Volts:** 208Y/120V WYE — **A.I.C. Rating:** 42,000
Supply From: 2-TE — **Phas...** 3 — **Mains Rating:** 60 A
Mounting: — **Wires:** 4 — **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	MISCELLANEOUS MDF 10x14...	12	20	1	500			500			1	20	10	MISCELLANEOUS RECEPTION B101	2	(R)
(R)	3	MISCELLANEOUS STAIR E121	8	20	1		1200			1200		1	20	6	MISCELLANEOUS STAIR E121	4	(R)
(R)	5	MISCELLANEOUS ELEV-1...	12	20	1			250			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				1000 W		2400 W			250 W						
		Total Amps:				9 A		21 A			2 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 3650 VA
Total Est. Demand: 3650 VA
Total Conn.: 10 A
Total Est. Demand: 10 A

Panel: 2-LS

Location: MECH. B119 — **Volts:** 208Y/120V WYE — **A.I.C. Rating:** 42,000
Supply From: 2-TS — **Phas...** 3 — **Mains Rating:** 100 A
Mounting: SURFACE — **Wires:** 4 — **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	RECEPTS. Room D109	6	20	1	1080			900			1	20	12	RECEPTS. MDF 10x14 B117	2	(R)
(R)	3	RECEPTS. Room B117	12	20	1		900			1080		1	20	8	RECEPTS. Room D101	4	(R)
(R)	5	RECEPTS. MDF 10x14 B117	12	20	1			1800			1800	1	20	12	RECEPTS. MDF 10x14 B117	6	(R)
(R)	7	RECEPTS. MDF 10x14 B117	10	30	2	2496			2496			2	30	10	RECEPTS. MDF 10x14 B117	8	(R)
--	9	--	--	--	--		2496			2496		--	--	--	--	10	--
(R)	11	RECEPTS. MDF 10x14 B117	12	20	1			360			360	2	30	12	RECEPTS. MDF 10x14 B117	12	(R)
(R)	13	RECEPTS.	10	30	2	2496			2496			2	30	10	RECEPTS. B117	14	(R)
--	15	--	--	--	--		2496			2496		--	--	--	--	16	--
(R)	17	RECEPTS. MDF 10x14 B117	12	20	1			360			1800	1	20	12	RECEPTS. MDF 10x14 B117	18	(R)
(R)	19	RECEPTS. ELEV-1 C219-1	12	20	1	180			1200			1	20	10	MOTORS ELEV-1 C219-1	20	
	21									1260		1	20	8	RECEPTS. Room B104	22	(R)
(R)	23	RECEPTS. B117	8	20	1			360			720	1	20	10	RECEPTS. RECEPTION B101	24	(R)
(R)	25	RECEPTS. Room B128	10	20	1	1080			500			1	20	10	MISCELLANEOUS RECEPTION B101	26	
(R)	27	MISCELLANEOUS PATIENT R...	12	20	1		600			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1	0			0			1	20	--	SPARE	30	
	31	SPARE	--	20	1		0			0		1	20	--	SPARE	32	
	33	SPARE	--	20	1	0			0			1	20	--	SPARE	34	
	35	SPARE	--	20	1		0			0		1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				14924 W		13824 W			7560 W						
		Total Amps:				132 A		123 A			63 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 36308 VA
Total Est. Demand: 24604 VA
Total Conn.: 101 A
Total Est. Demand: 68 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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STATE OF TEXAS
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143448
LICENSED PROFESSIONAL ENGINEER

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
03802-04-01	E5.03
Drawn By: MH	
Date: 07.15.

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Panel: 3-H1

Location: MECH. C111 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	3-T1	RISER	70	3	13440				3104			3	60	RISER	3-H2		2
--	3	--	--	--	--		12600				3104		--	--	--	--		4	--
--	5	--	--	--	--			10860				3104	--	--	--	--		6	--
(L)	7	LIGHTS C101, C102, C103	12	20	1	1590			1350				1	20	12	LIGHTS C100		8	(L)
(L)	9	LIGHTS C119	12	20	1		331			439			1	20	12	EXTERIOR LIGHTING		10	(L)
(E)	11	EXTERIOR LIGHTING	12	20	1			464				1719	1	20	12	LIGHTS C106, C107, C108		12	(L)
	13	SPARE	--	20	1	0			0				1	20	--	SPARE		14	
	15	SPARE	--	20	1		0			0			1	20	--	SPARE		16	
	17	SPARE	--	20	1			0			0		1	20	--	SPARE		18	
	19	SPARE	--	20	1	0			0				1	20	--	SPARE		20	
	21	SPARE	--	20	1		0			0			1	20	--	SPARE		22	
	23	SPARE	--	20	1			0			0		1	20	--	SPARE		24	
	25	SPARE	--	20	1	0			0				1	20	--	SPARE		26	
	27	SPARE	--	20	1		0			0			1	20	--	SPARE		28	
	29	SPARE	--	20	1			0			0		1	20	--	SPARE		30	
	31	SPARE	--	20	1	0			0				1	20	--	SPARE		32	
	33	SPARE	--	20	1		0			0			1	20	--	SPARE		34	
	35	SPARE	--	20	1			0			0		1	20	--	SPARE		36	
	37	SPARE	--	20	1	0			0				1	20	--	SPARE		38	
	39	SPARE	--	20	1		0			0			1	20	--	SPARE		40	
	41	SPARE	--	20	1			0			0		1	20	--	SPARE		42	
		Total Load:				19484 W		16130 W				15863 W							
		Total Amps:				70 A		58 A				57 A							

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 51473 VA
Total Est. Demand: 48342 VA
Total Conn.: 62 A
Total Est. Demand: 58 A

Panel: 3-H2

Location: MECH. C111 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: 3-H1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-3	10	30	3	3104						0			1	20	--	SPARE	2	
--	3	--	--	--	--		3104					0			1	20	--	SPARE	4	
--	5	--	--	--	--			3104				0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0				0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0				0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0				0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0				0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0				0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0				0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0				0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0				0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0				0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0				0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0				0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0				0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0				0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0				0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0				0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0				0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0				0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0				0	1	20	--	SPARE	42	
		Total Load:				3104 W		3104 W				3104 W						
		Total Amps:				11 A		11 A				11 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 9311 VA
Total Est. Demand: 9311 VA
Total Conn.: 11 A
Total Est. Demand: 11 A

Panel: 3-L1

Location: MECH. C111 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 3-T1 | **Phas...** 3 | **Mains Rating:** 150 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	3-L2	RISER	100	3	10440				0			1	20	--	SPARE	2	
--	3	--	--	--	--		9600				0		1	20	--	SPARE	4	
--	5	--	--	--	--			7860				0	1	20	--	SPARE	6	
	7	WATER HEATER Space 17	8	35	3	3000				0			1	20	--	SPARE	8	
--	9	--	--	--	--		3000				0		1	20	--	SPARE	10	
--	11	--	--	--	--			3000				0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0				0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0				0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0				0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0				0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0				0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0				0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0				0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0				0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0				0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0				0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0				0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0				0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0				0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0				0		1	20	--	SPARE	40	
	41							0				0	1	20	--	SPARE	42	
		Total Load:				13440 W		12600 W				10860 W						
		Total Amps:				114 A		107 A				91 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 36900 VA
Total Est. Demand: 32450 VA
Total Conn.: 102 A
Total Est. Demand: 90 A

Panel: 3-L2

Location: MECH. C111 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 3-L1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	RECEPTS. 5TH - CR-1 C101-1	6	20	1	1260				540			1	20	10	RECEPTS. 5TH - CR-1 C101-1	2	(R)
(R)	3	RECEPTS. Room C102	6	20	1		1440				540		1	20	10	RECEPTS. C102	4	(R)
(R)	5	RECEPTS. 5TH - CR C103	12	20	1			540				1080	1	20	8	RECEPTS. 5TH - CR C103	6	(R)
(R)	7	RECEPTS. C100	10	20	1	900				720			1	20	12	RECEPTS. C113, C114	8	(R)
(R)	9	RECEPTS. C115	12	20	1		240				1200		1	20	10	MISCELLANEOUS	10	(R)
(R)	11	RECEPTS. C100	12	20	1			360				360	1	20	12	RECEPTS. WP	12	(R)
(R)	13	RECEPTS. Room C106	8	20	1	1440				540			1	20	12	RECEPTS. C106	14	(R)
(R)	15	RECEPTS. 5TH - CR C107	8	20	1		1440				540		1	20	12	RECEPTS. 5TH - CR C107	16	(R)
(R)	17	RECEPTS. FLEX ROOM C108B	10	20	1			900				540	1	20	12	RECEPTS. FLEX ROOM C108B	18	(R)
(R)	19	RECEPTS. Space 80	12	20	1	720				540			1	20	12	RECEPTS. Space 80	20	(R)
(R)	21	MISCELLANEOUS Space 80	10	20	1		1200				360		1	20	12	RECEPTS. WP	22	(R)
(R)	23	RECEPTS. CONTENT MASTER..	12	20	1			1080				540	1	20	12	RECEPTS. Room C109	24	(R)
(R)	25	RECEPTS. Room C112	10	20	1	900				360			1	20	12	RECEPTS. LIBRARY-1 C119-1	26	(R)
(R)	27	RECEPTS. LIBRARY-1 C119-1	8	20	1		1080				900		1	20	8	RECEPTS. C119	28	(R)
(R)	29	MISCELLANEOUS	2	20	1			720				360	1	20	12	MISCELLANEOUS RESTROOM C113	30	(R)
(R)	31	MISCELLANEOUS RESTROOM..	12	20	1	360				1080			1	20	8	RECEPTS. Room C118-1	32	(R)
(H)	33	A/C EQUIPMENT Space B199	12	20	1		480				180		1	20	12	RECEPTS. C111	34	(R)
(R)	35	MISCELLANEOUS MECH. C111	12	20	1			180				1200	1	20	12	RECEPTS. C111	36	(R)
(R)	37	RECEPTS.	12	20	1	540				540			1	20	12	RECEPTS. Room C218	38	(R)
	39	SPARE	--	20	1		0				0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0				0	1	20	--	SPARE	42	
		Total Load:				10440 W		9600 W				7860 W						
		Total Amps:				89 A		82 A				66 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 27900 VA
Total Est. Demand: 21200 VA
Total Conn.: 77 A
Total Est. Demand: 59 A

Panel: 3-HE

Location: MECH. C111 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS C106, C107, C108	12	20	1	633			240				1	20	12	EXTERIOR LIGHTS	2	(E)
	3	SPARE	--	20	1		0			1964			1	20	12	LIGHTS C100	4	(L)
	5	SPARE	--	20	1			0				0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0				1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0			1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0		1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0				1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0			1	20	--	SPARE	16	
	17	SPARE	--	20	1			0				0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0				1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0			1	20	--	SPARE	22	
	23	SPARE	--	20	1			0				0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0				1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0			1	20	--	SPARE	28	
	29	SPARE	--	20	1			0				0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0				1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0			1	20	--	SPARE	34	
	35	SPARE	--	20	1			0				0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0				1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0			1	20	--	SPARE	40	
	41	SPARE	--	20	1			0				0	1	20	--	SPARE	42	
		Total Load:				873 W		1964 W				0 W						
		Total Amps:				4 A		8 A				0 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 2837 VA
Total Est. Demand: 3546 VA
Total Conn.: 3 A
Total Est. Demand: 4 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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STATE OF TEXAS
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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.04
Drawn By: MH	
Date: 07.15.2026	

7/13/2026 3:07:24 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt

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Panel: 4-H1

Location: MECH. E112 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	4-H2	RISER	60	3	3104			16140			3	70	RISER	4-T1	2	
--	3	--	--	--	--		3104			11460		--	--	--	--	4	--
--	5	--	--	--	--			3104			12240	--	--	--	--	6	--
(L)	7	LIGHTS E114, E115, E116	12	20	1	2349			1278			1	20	12	LIGHTS E113	8	(L)
(E)	9	EXTERIOR LIGHTS	12	20	1		375			1202		1	20	12	LIGHTS	10	(L)
	11	SPARE	--	20	1	0			0			1	20	--	SPARE	12	
	13	SPARE	--	20	1		0			0		1	20	--	SPARE	14	
	15	SPARE	--	20	1	0			0			1	20	--	SPARE	16	
	17	SPARE	--	20	1		0			0		1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				2871 W			15919 W			15344 W					
		Total Amps:				83 A			58 A			55 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 54131 VA
Total Est. Demand: 51257 VA
Total Conn.: 65 A
Total Est. Demand: 62 A

Panel: 4-H2

Location: MECH. E112 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: 4-H1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-5	10	30	3	3104					0					2	
--	3	--	--	--	--		3104										
--	5	--	--	--	--			3104									
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				3104 W			3104 W			3104 W					
		Total Amps:				11 A			11 A			11 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 9311 VA
Total Est. Demand: 9311 VA
Total Conn.: 11 A
Total Est. Demand: 11 A

Panel: 4-L1

Location: MECH. E112 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 4-T1 | **Phas...** 3 | **Mains Rating:** 150 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	4-L2	RISER	100	3	11940			3000			3	35	8	WATER HEATER CUST E109	2	
--	3	--	--	--	--		8460			3000		--	--	--	--	4	--
--	5	--	--	--	--			9240			3000	--	--	--	--	6	--
(R)	7	MISCELLANEOUS	10	20	1	1200			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				16140 W			11460 W			12240 W					
		Total Amps:				136 A			96 A			103 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 39840 VA
Total Est. Demand: 35720 VA
Total Conn.: 111 A
Total Est. Demand: 99 A

Panel: 4-L2

Location: MECH. E112 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 4-L1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. FLEX ROOM E114	12	20	1	540			720			1	20	12	RECEPTS. Space B154	2	
	3	RECEPTS. WP	12	20	1		180			900		1	20	10	RECEPTS. FLEX ROOM E114B	4	
	5	RECEPTS. FLEX ROOM E114B	12	20	1			540			1440	1	20	8	RECEPTS. 6TH - CR E115	6	
	7	RECEPTS. 6TH - CR E115	12	20	1	540			1440			1	20	8	RECEPTS. Room E115, E116	8	
	9	RECEPTS. 6TH - CR E116	12	20	1		540			540		1	20	10	RECEPTS. WP	10	
	11	RECEPTS. E113	10	20	1			720			1080	1	20	12	RECEPTS. CONTENT MASTERY E106	12	
	13	RECEPTS. E106	12	20	1	540			720			1	20	12	RECEPTS. Space 16	14	
	15	RECEPTS.	12	20	1	240			360			1	20	12	RECEPTS. CORR F135	16	
	17	MISCELLANEOUS	10	20	1		1200			1440		1	20	8	RECEPTS. Room E118	18	
	19	RECEPTS. 6TH - CR E118	12	20	1	540			1440			1	20	6	RECEPTS. Room E119	20	
	21	RECEPTS. E119	10	20	1		540			1260		1	20	8	RECEPTS. 6TH - CR-1 E120-1	22	
	23	RECEPTS. 6TH - CR-1 E120-1	10	20	1			540			720	1	20	10	RECEPTS. Room E104	24	
	25	RECEPTS. OFF. / WORK RM...	12	20	1	720			1080			1	20	10	RECEPTS. Room E103	26	
	27	RECEPTS. Room E101-1, E102	10	20	1		900			900		1	20	10	RECEPTS. LOUNGE-1 E101-1	28	
	29	MISCELLANEOUS LOUNGE-1...	12	20	1			600			600	1	20	12	MISCELLANEOUS	30	
	31	MISCELLANEOUS	10	20	2	1200			1200			1	20	10	MISCELLANEOUS LOUNGE-1 E101-1	32	
--	33	--	--	--	--		1200			360		1	20	12	MISCELLANEOUS RESTROOM-1...	34	
	35	MISCELLANEOUS RESTROOM...	12	20	1			360			180	1	20	12	MISCELLANEOUS MECH. E112	36	
	37	RECEPTS. E112	12	20	1	180			1080			1	20	12	RECEPTS. OFF. / WORK RM. E104	38	
	39	SPARE	--	20	1		0			540		1	20	12	RECEPTS. LIBRARY-1 C119-1	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				11940 W			8460 W			9240 W					
		Total Amps:				101 A			71 A			78 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 29640 VA
Total Est. Demand: 23270 VA
Total Conn.: 82 A
Total Est. Demand: 65 A

Panel: 4-HE

Location: MECH. E112 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS E113	12	20	1	544			231			1	20	12	LIGHTS E114, E115, E116	2	(L)
	3	SPARE	--	20	1		0			65		1	20	12	EXTERIOR LIGHTS	4	(E)
	5	SPARE	--	20	1			0			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				775 W			65 W			0 W					
		Total Amps:				3 A			0 A			0 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 840 VA
Total Est. Demand: 1050 VA
Total Conn.: 1 A
Total Est. Demand: 1 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.05
Drawn By: MH	
Date: 07.15.2026	

7/13/2026 3:07:25 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt

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Panel: 5-H1

Location: MECH. C212 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	5-H2	RISER	60	3	4904		10036	3	50	RISER	5-T1		2
--	3	--	--	--			3104							4	--
--	5	--	--	--				3104		7908	--	--	--	6	--
(L)	7	LIGHTS C201, C202, C203	12	20	1	2073		936	1	20	12	LIGHTS C119		8	(L)
(L)	9	LIGHTS C206, C207, C208	12	20	1		2178		1	20	--	SPARE		10	
	11	SPARE	--	20	1	0		0	1	20	--	SPARE		12	
	13	SPARE	--	20	1		0		1	20	--	SPARE		14	
	15	SPARE	--	20	1	0		0	1	20	--	SPARE		16	
	17	SPARE	--	20	1		0		1	20	--	SPARE		18	
	19	SPARE	--	20	1	0		0	1	20	--	SPARE		20	
	21	SPARE	--	20	1		0		1	20	--	SPARE		22	
	23	SPARE	--	20	1		0		1	20	--	SPARE		24	
	25	SPARE	--	20	1	0		0	1	20	--	SPARE		26	
	27	SPARE	--	20	1		0		1	20	--	SPARE		28	
	29	SPARE	--	20	1		0		1	20	--	SPARE		30	
	31	SPARE	--	20	1	0		0	1	20	--	SPARE		32	
	33	SPARE	--	20	1		0		1	20	--	SPARE		34	
	35	SPARE	--	20	1		0		1	20	--	SPARE		36	
	37	SPARE	--	20	1	0		0	1	20	--	SPARE		38	
	39	SPARE	--	20	1		0		1	20	--	SPARE		40	
	41	SPARE	--	20	1			0	1	20	--	SPARE		42	
		Total Load:				17949 W		13938 W				11012 W			
		Total Amps:				66 A		52 A				40 A			

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 42898 VA
Total Est. Demand: 38665 VA
Total Conn.: 52 A
Total Est. Demand: 47 A

Panel: 5-H2

Location: MECH. C212 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: 5-H1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-10	10	30	3	3104		1800	1	20	12	A/C EQUIPMENT	2	(H)
--	3	--	--	--			3104		0	1	20	--	SPARE	4	--
--	5	--	--	--				3104	0	1	20	--	SPARE	6	--
	7	SPARE	--	20	1	0		0		1	20	--	SPARE	8	
	9	SPARE	--	20	1		0		0	1	20	--	SPARE	10	
	11	SPARE	--	20	1			0	0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0		0		1	20	--	SPARE	14	
	15	SPARE	--	20	1		0		0	1	20	--	SPARE	16	
	17	SPARE	--	20	1			0	0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0		0		1	20	--	SPARE	20	
	21	SPARE	--	20	1		0		0	1	20	--	SPARE	22	
	23	SPARE	--	20	1			0	0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0		0		1	20	--	SPARE	26	
	27	SPARE	--	20	1		0		0	1	20	--	SPARE	28	
	29	SPARE	--	20	1			0	0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0		0		1	20	--	SPARE	32	
	33	SPARE	--	20	1		0		0	1	20	--	SPARE	34	
	35	SPARE	--	20	1			0	0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0		0		1	20	--	SPARE	38	
	39	SPARE	--	20	1		0		0	1	20	--	SPARE	40	
	41	SPARE	--	20	1			0	0	1	20	--	SPARE	42	
		Total Load:				4904 W		3104 W				3104 W			
		Total Amps:				18 A		11 A				11 A			

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 11111 VA
Total Est. Demand: 11111 VA
Total Conn.: 13 A
Total Est. Demand: 13 A

Panel: 5-L1

Location: MECH. C212 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 5-T1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	5-L2	RISER	60	3	8580		728	2	20	12	A/C EQUIPMENT	2	(H)
--	3	--	--	--			7200				--	--	4	--
--	5	--	--	--				7200		528	1	20	12	EXHAUST FAN	6	(H)
(H)	7	A/C EQUIPMENT	12	20	2	728		0			1	20	--	SPARE	8	
--	9	--	--	--	--		728		0		1	20	--	SPARE	10	
(R)	11	RECEPTS. ROOF	12	20	1			180		0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0		0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0		0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0	0		1	20	--	SPARE	18	
	19	SPARE	--	20	1	0		0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0		0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0	0		1	20	--	SPARE	24	
	25	SPARE	--	20	1	0		0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0		0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0	0		1	20	--	SPARE	30	
	31	SPARE	--	20	1	0		0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0		0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0	0		1	20	--	SPARE	36	
	37	SPARE	--	20	1	0		0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0		0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0		0	1	20	--	SPARE	42	
		Total Load:				10036 W		8656 W		7908 W						
		Total Amps:				85 A		73 A		66 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 26600 VA
Total Est. Demand: 21070 VA
Total Conn.: 74 A
Total Est. Demand: 58 A

Panel: 5-L2

Location: MECH. C212 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 5-L1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	RECEPTS. INTERVENTION C201	8	20	1	1080		540	1	20	10	RECEPTS. Room C201	2	(R)
(R)	3	RECEPTS. STH - CR C202	6	20	1		1440		1	20	12	RECEPTS. Room C202	4	(R)
(R)	5	RECEPTS. STH - CR C203	12	20	1			540	1	20	8	RECEPTS. STH - CR C203	6	(R)
(R)	7	RECEPTS. Room E201	8	20	1	1260		1200	1	20	10	MISCELLANEOUS CORR F139	8	(R)
(R)	9	RECEPTS. Room F139	12	20	1		360		1	20	10	RECEPTS. LIBRARY C220	10	(R)
(R)	11	RECEPTS. C217	12	20	1			540	1	20	10	RECEPTS. RESOURCE / CR C217	12	(R)
(R)	13	RECEPTS. Room C214, C215	12	20	1	720		1260	1	20	8	RECEPTS. Room C207, C206	14	(R)
(R)	15	RECEPTS. STH - CR C207	12	20	1		540		1	20	8	RECEPTS. Room C207	16	(R)
(R)	17	RECEPTS. STH - CR C207	12	20	1			540	1	20	10	RECEPTS. Room C208	18	(R)
(R)	19	RECEPTS. STH - CR C208	12	20	1	540		1260	1	20	10	RECEPTS. Room C209	20	(R)
(R)	21	RECEPTS. STH - CR C209	12	20	1		540		1	20	8	RECEPTS. Room C211	22	(R)
(R)	23	RECEPTS. STH - CR C211	12	20	1			540	1	20	8	RECEPTS. Room E212	24	(R)
(R)	25	RECEPTS. 6TH - CR E212	12	20	1	540		180	1	20	12	RECEPTS. MECH. C212	26	(R)
(R)	27	MISCELLANEOUS MECH. C212	12	20	1		180		1	20	12	MISCELLANEOUS	28	(R)
(R)	29	MISCELLANEOUS	12	20	1			360	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0		0	1	20	--	SPARE	32	
	33	SPARE	--	20	1		0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0		0	1	20	--	SPARE	38	
	39	SPARE	--	20	1		0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0	1	20	--	SPARE	42	
		Total Load:				8580 W		7200 W				7200 W		
		Total Amps:				72 A		60 A				60 A		

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 22980 VA
Total Est. Demand: 17540 VA
Total Conn.: 64 A
Total Est. Demand: 49 A

Panel: 5-HE

Location: MECH. C212 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS E201	12	20	1	1237		1072	1	20	12	LIGHTS LIBRARYC119	2	(L)
	3	SPARE	--	20	1		0		0	1	20	--	SPARE	4	
	5	SPARE	--	20	1			0		0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0		0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0		0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0	0		1	20	--	SPARE	12	
	13	SPARE	--	20	1	0		0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0		0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0	0		1	20	--	SPARE	18	
	19	SPARE	--	20	1	0		0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0		0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0	0		1	20	--	SPARE	24	
	25	SPARE	--	20	1	0		0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0		0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0	0		1	20	--	SPARE	30	
	31	SPARE	--	20	1	0		0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0		0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0	0		1	20	--	SPARE	36	
	37	SPARE	--	20	1	0		0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0		0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0	0		1	20	--	SPARE	42	
		Total Load:				2309 W		0 W				0 W				
		Total Amps:				8 A		0 A				0 A				

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 2309 VA
Total Est. Demand: 2886 VA
Total Conn.: 3 A
Total Est. Demand: 3 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.06
Drawn By: MH	
Date: 07.15.2026	

7/13/2026 3:07:27 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt

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Panel: 6-H1

Location: MECH. E210 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	6-H2	RISER	60	3	8007			11352			3	50	RISER	6-T1	2	
--	3	--	--	--	--		6207			8296		--	--	--	--	4	--
--	5	--	--	--	--			6207			7688	--	--	--	--	6	--
(L)	7	LIGHTS E213, E215, E216	12	20	1	1452			1516			1	20	12	LIGHTS Room E200	8	(L)
(L)	9	LIGHTS Room E207, E206	12	20	1		1907			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
						22327 W			16410 W			13895 W					
						82 A			61 A			50 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 52633 VA
Total Est. Demand: 48682 VA
Total Conn.: 63 A
Total Est. Demand: 59 A

Panel: 6-H2

Location: MECH. E210 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: 6-H1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(H)	1	AHU-11	10	30	3	3104			3104			3	20	12	AHU-12	2	(H)
--	3	--	--	--	--		3104			3104		--	--	--	--	4	--
--	5	--	--	--	--			3104			3104	--	--	--	--	6	--
(H)	7	A/C EQUIPMENT	12	20	1	1800			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
						8007 W			6207 W			6207 W					
						29 A			22 A			22 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 20422 VA
Total Est. Demand: 20422 VA
Total Conn.: 25 A
Total Est. Demand: 25 A

Panel: 6-L1

Location: MECH. E210 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 6-T1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(R)	1	6-L2	RISER	60	3	8640			728			2	20	12	A/C EQUIPMENT	2	(H)
--	3	--	--	--	--		6840			728		--	--	--	--	4	--
--	5	--	--	--	--			6600			360	1	20	12	RECEPTS. ROOF	6	(R)
(H)	7	A/C EQUIPMENT	12	20	2	728			528			1	20	12	EXHAUST FAN	8	(H)
--	9	--	--	--	--		728			0		1	20	--	SPARE	10	
(H)	11	A/C EQUIPMENT	12	20	2			728			0	1	20	--	SPARE	12	
--	13	--	--	--	--	728			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
						11352 W			8296 W			7688 W					
						95 A			70 A			64 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 27336 VA
Total Est. Demand: 22166 VA
Total Conn.: 76 A
Total Est. Demand: 62 A

Panel: 6-L2

Location: MECH. E210 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 6-L1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. Room E213	10	20	1	1260				540		1	20	12	RECEPTS. 6TH - CR E213	2	
	3	RECEPTS. Room E214	10	20	1		1260				540	1	20	12	RECEPTS. 6TH - CR E214	4	
	5	RECEPTS. 6TH - CR E215	8	20	1			1260			540	1	20	12	RECEPTS. 6TH - CR E215	6	
	7	RECEPTS. Room E215, E216	8	20	1	1260				540		1	20	8	RECEPTS. D205	8	
	9	RECEPTS. 6TH - CR E216	12	20	1		540				540	1	20	12	RECEPTS. E200	10	
	11	RECEPTS. CORR F137	12	20	1			360				1200	1	20	10	MISCELLANEOUS	12	
	13	RECEPTS. Room E207, B302	12	20	1	720				1080		1	20	10	RECEPTS. RESOURCE / CR E205	14	
	15	RECEPTS. RESOURCE / CR..	12	20	1		540				1260	1	20	8	RECEPTS. INTERVENTION E220	16	
	17	RECEPTS. INTERVENTION E220	10	20	1			540				1260	1	20	8	RECEPTS. 6TH - CR E218	18	
	19	RECEPTS. E218	12	20	1	540				1440		1	20	6	RECEPTS. 6TH - CR E219	20	
	21	RECEPTS. Room E219	10	20	1		540				720	1	20	10	RECEPTS. COUNS. OFF. E232	22	
	23	RECEPTS. Room E234	10	20	1			720			180	1	20	12	RECEPTS. SMALL ADMIN...	24	
	25	RECEPTS. SMALL ADMIN...	12	20	1	180			720			1	20	10	RECEPTS. Room E233	26	
	27	RECEPTS. E231	8	20	1		720			180		1	20	12	MISCELLANEOUS MECH. E210	28	
	29	RECEPTS. E210	12	20	1			180			360	1	20	12	MISCELLANEOUS RESTROOM E207	30	
	31	MISCELLANEOUS RESTROOM..	12	20	1	360			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
						8640 W			6840 W			6600 W					
						72 A			57 A			55 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 22080 VA
Total Est. Demand: 17090 VA
Total Conn.: 61 A
Total Est. Demand: 47 A

Panel: 6-HE

Location: MECH. E210 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS E214, E215, E216	12	20	1	580			520			1	20	12	LIGHTS E200	2	(L)
	3	SPARE	--	20	1		0			0		1	20	--	SPARE	4	
	5	SPARE	--	20	1			0			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
						1100 W			0 W			0 W					
						4 A			0 A			0 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 1100 VA
Total Est. Demand: 1375 VA
Total Conn.: 1 A
Total Est. Demand: 2 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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TOMBALL, TEXAS

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No. 00802-04-01
Drawn By: MH
Date: 07.15.2026
Sheet No. E5.07

7/13/2026 3:07:29 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt

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Panel: 7-H1

Location: MAIN ELECTRICAL F125 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 150 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	AHU-8 MECH F121	12	20	3	1773			33737				3	125	RISER	7-T1	2	
--	3	--	--	--	--		1773			37681			--	--	--	--	4	--
--	5	--	--	--	--			1773			33397		--	--	--	--	6	--
(E)	7	SITE LIGHTS	4	20	1	2992			763				1	20	12	LIGHTS F106, F108, F109	8	(L)
(L)	9	LIGHTS F105	10	20	1		2280			3238			1	20	10	LIGHTS F112	10	(L)
(L)	11	LIGHTS F114, F116, F118	12	20	1			1904			698		1	20	12	EXTERIOR LIGHTS	12	(L)
(H)	13	FCU-F1	12	20	1	1800			0				1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0			1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0		1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			0	1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0			1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0		1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			0	1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0			1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0		1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0				1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0			1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0		1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0				1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0			1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0		1	20	--	SPARE	42	
		Total Load:				41066 W			44973 W			37433 W						
		Total Amps:				150 A			164 A			135 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 123467 VA
Total Est. Demand: 115201 VA
Total Conn.: 149 A
Total Est. Demand: 139 A

Panel: 7-L1

Location: MAIN ELECTRICAL F125 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 7-T1 | **Phas...** 3 | **Mains Rating:** 400 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{R}	1	7-L2	RISER	150	3	18360		600			1	20	12	MISCELLANEOUS	2	{R}
--	3	--	--	--	--		21288			1500	1	20	12	MISCELLANEOUS	4	{R}
--	5	--	--	--	--			17880			1500	1	20	12	MISCELLANEOUS	6	{R}
{H}	7	EXHAUST FAN	10	20	1	528			3000			3	35	8	WATER HEATER CUST. F111	8	
{H}	9	EXHAUST FAN	12	20	1		528			3000		--	--	--	--	10	--
{R}	11	RECEPTS.	12	20	1			180			3000	--	--	--	--	12	--
	13	WH1	12	20	1	240			240			1	20	12	WH2	14	
{H}	15	BOILER 1	12	20	3		749			749		3	20	12	BOILER 2	16	{H}
--	17	--	--	--	--			749			749	--	--	--	--	18	--
--	19	--	--	--	--	749			749			--	--	--	--	20	--
{H}	21	EXHAUST FAN	10	20	1		528			728		2	20	12	A/C EQUIPMENT	22	{H}
{H}	23	A/C EQUIPMENT	12	20	2			728			728	--	--	--	--	24	--
--	25	--	--	--	--	728			540			1	20	10	RECEPTS. ROOF	26	{R}
{R}	27	RECEPTS. ROOF	12	20	1		360			1500		1	20	6	MISCELLANEOUS	28	
	29	CLOTHES DRYER	8	40	2			2500			180	1	20	12	RECEPTS.	30	{R}
--	31	--	--	--	--	2500			240			1	20	12	RECEPTS. F124	32	{R}
	33	CLOTHES WASHER	12	20	1		1200			180		1	20	12	RECEPTS. MAIN CUSTODIAL-1 F124-1	34	{R}
{R}	35	IRRAGATION CONTROLLER	12	20	1			180			180	1	20	12	RECEPTS. MAIN CUSTODIAL-1 F124-1	36	{R}
{R}	37	RECEPTS.MECHANICAL F121	12	20	1	240			180			1	20	12	RECEPTS. MAIN CUSTODIAL-1 F124-1	38	{R}
	39	EWH6	8	35	3		3000			528		1	20	12	EXHAUST FAN	40	{H}
--	41	--	--	--	--			3000			922	3	20		A/C EQUIPMENT BOILER-1 F126-1	42	
--	43	--	--	--	--	3000			922			--	--	--	--	44	--
	45	SPARE	--	20	1		0			922		--	--	--	--	46	--
	47	SPARE	--	20	1			0			922	3	20		A/C EQUIPMENT	48	
	49	SPARE	--	20	1	0			922			--	--	--	--	50	--
	51	SPARE	--	20	1		0			922		--	--	--	--	52	--
	53	SPARE	--	20	1			0			0	1	20	--	SPARE	54	
	55	SPARE	--	20	1	0			0			1	20	--	SPARE	56	
	57	SPARE	--	20	1		0			0		1	20	--	SPARE	58	
	59	SPARE	--	20	1			0			0	1	20	--	SPARE	60	
		Total Load:				33737 W			37681 W			33397 W						
		Total Amps:				282 A			314 A			278 A						

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 104816 VA
Total Est. Demand: 93666 VA
Total Conn.: 291 A
Total Est. Demand: 260 A

Panel: 7-L2

Location: MAIN ELECTRICAL F125 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 7-T1 | **Phas...** 3 | **Mains Rating:** 150 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. F138, F104	10	20	1	360			180			1	20	12	RECEPTS. WP	2	
	3	RECEPTS. OFFICE-1 F130-1	8	20	1		1800			1200		1	20	6	MISCELLANEOUS GYMNASIUM F105	4	
	5	MISCELLANEOUS GYMNASIU...	6	20	1			1200			240	1	20	12	RECEPTS. CUST. F111	6	
	7	RECEPTS. F111	12	20	1	180			720			1	20	6	RECEPTS. COACHES OFF. F102	8	
	9	RECEPTS. COACHES OFF. F102	4	20	1		1800			180		1	20	12	RECEPTS. F101	10	
	11	MISCELLANEOUS CORR F101	6	20	1			1200			540	1	20	10	RECEPTS. Room F108-1, F106-1	12	
	13	MISCELLANEOUS	6	20	1	1200			360			1	20	12	RECEPTS. WP	14	
	15	RECEPTS. F125	12	20	1		180			180		1	20	12	MISCELLANEOUS	16	
	17	RECEPTS. F104	4	20	1			1800			720	1	20	1	MISCELLANEOUS Space 221	18	
	19	RECEPTS. TABLE+CHAIR...	12	20	1	180			360			1	20	12	RECEPTS. MAIN CUSTODIAL-1 F124-1	20	
	21	RECEPTS. Room F134	12	20	1		360			540		1	20	12	RECEPTS. WP	22	
	23	RECEPTS. CIRC. F105	12	20	1			720			600	1	20	12	MISCELLANEOUS MAIN CUSTODIAL	24	
	25	RECEPTS. MAIN MECHANICAL...	12	20	1	900			1080			1	20	12	RECEPTS.	26	
	27	MISCELLANEOUS	10	20	1		1200			1200		1	20	12	MISCELLANEOUS	28	
	29	RECEPTS. Room F114	8	20	1			900			540	1	20	12	RECEPTS. Room F102	30	
	31	RECEPTS. F104	4	20	1	1800			180			1	20	12	RECEPTS. PLATFORM F114	32	
	33	RECEPTS. F114	6	20	1		1800			1800		1	20	6	RECEPTS. PLATFORM F114	34	
	35	MISCELLANEOUS DINING ARE...	8	20	1			1200			1800	1	20	8	RECEPTS. F115	36	
	37	RECEPTS. F115	8	20	1	1800			1800			1	20	8	RECEPTS. SOUND F115	38	
	39	RECEPTS. F105	4	20	1		1800			1800		1	20	4	RECEPTS. CIRC.-1 F105.1-1	40	
	41	RECEPTS. SOUND F115	8	20	1			1800			180	1	20	12	RECEPTS. F112	42	
	43	RECEPTS. SOUND F115	8	20	1	1800			180			1	20	12	RECEPTS. F112	44	
	45	MISCELLANEOUS DINING ARE...	12	20	1		180			1800		1	20	4	RECEPTS. F105	46	
	47	RECEPTS. F105	4	20	1			1800			1800	1	20	8	RECEPTS. F112	48	
	49	RECEPTS. F112	8	20	1	1800			1800			1	20	8	RECEPTS. SOUND F115	50	
	51	RECEPTS. F112	12	20	1		900			540		1	20	12	RECEPTS. F112	52	
	53	MISCELLANEOUS	12	20	1			120			720	1	20	12	MISCELLANEOUS	54	
	55	ELEC. HEATING EQUIP. RISER...	12	20	2	1500			180			1	20	12	RECEPTS. MAIN CUSTODIAL-1 F124-1	56	
--	57	--	--	--	--		1500			528		1	20	12	EXHAUST FAN TOILET F131	58	
	59	SPARE	--	20	1			0			0	1	20	--	SPARE	60	
		Total Load:				18360 W			21288 W			17880 W					
		Total Amps:				154 A			178 A			149 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 57528 VA
Total Est. Demand: 41738 VA
Total Conn.: 160 A
Total Est. Demand: 116 A

Panel: 7-LS

Location: MAIN ELECTRICAL F125 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 7-T5 | **Phas...** 3 | **Mains Rating:** 150 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{R}	1	RECEPTS. Room F110-1	8	20	1	720			2496			2	30	10	RECEPTS. F110	2	{R}
{R}	3	RECEPTS F110	4	20	1		1800			2496		--	--	--	--	4	--
{R}	5	RECEPTS. F110	4	20	1			1800			360	1	20	12	RECEPTS. IDF-1 F110-1	6	{R}
{R}	7	RECEPTS. IDF-1 F110-1	12	20	1	360			2496			2	30	10	RECEPTS. IDF-1 F110-1	8	{R}
{R}	9	RECEPTS. F110	4	20	1		1800			2496		--	--	--	--	10	--
{L}	11	LIGHTS FREEZER F129	10	20	1			1200			1800	1	20	8	LIGHTS FREEZER F129	12	{L}
	13	KITCHEN EQUIP. FREEZER...	12	20	1	600			1800			1	20	8	A/C EQUIPMENT FREEZER F129	14	{H}
{H}	15	A/C EQUIPMENT FREEZER F129	10	20	2		1664			600		1	20	12	KITCHEN EQUIP. FREEZER F129	16	
--	17	--	--	--	--			1664			4803	3	50	6	A/C EQUIPMENT	18	{H}
	19	KITCHEN EQUIP. COOLER F128	12	20	1	600			4803			--	--	--	--	20	--
	21	KITCHEN EQUIP. COOLER F128	12	20	1		600			4803		--	--	--	--	22	--
{L}	23	LIGHTS COOLER F128	12	20	1			1200			1800	1	20	10	LIGHTS COOLER F128	24	{L}
{H}	25	A/C EQUIPMENT COOLER F128	12	20	1	1200			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				15075 W			16259 W			14627 W					
		Total Amps:				126 A			136 A			122 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 45962 VA
Total Est. Demand: 43210 VA
Total Conn.: 128 A
Total Est. Demand: 120 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.08
Drawn By: MH	
Date: 07.15.2026	

Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt
7/13/2026 3:07:31 PM

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Panel: 8-H1

Location: ELEC. B207 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	SPARE	--	20	1	0			10064			3	50	RISER	8-T1	2	
	3	SPARE	--	20	1		0			12336		--	--	--	--	4	--
	5	SPARE	--	20	1			0			11036	--	--	--	--	6	--
(L)	7	LIGHTS Room B292, B211, B20...	12	20	1	1463			2518			1	20	10	LIGHTS B208, B209, B211	8	(L)
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				14045 W			12336 W			11036 W					
		Total Amps:				51 A			45 A			40 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 37417 VA
Total Est. Demand: 33612 VA
Total Conn.: 45 A
Total Est. Demand: 41 A

Panel: 8-L1

Location: ELEC. B207 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 8-TS | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{R}	1	8-L2	RISER	60	3	5340				0			1	20	--	SPARE	2	
--	3	--	--	--	--		--	--			0		1	20	--	SPARE	4	
--	5	--	--	--	--			8520			0		1	20	--	SPARE	6	
{R}	7	RECEPTS. ROOF	10	20	1	540			528				1	20	10	EXHAUST FAN	8	{H}
{R}	9	RECEPTS. ROOF	12	20	1		360			528			1	20	12	EXHAUST FAN	10	{H}
{H}	11	A/C EQUIPMENT	12	20	2			728			528		1	20	12	EXHAUST FAN	12	{H}
--	13	--	--	--	--	728			528				1	20	12	EXHAUST FAN	14	{H}
	15	MISCELLANEOUS SCIENCE...	12	20	1		1200			528			1	20	12	EXHAUST FAN	16	{H}
	17	MISCELLANEOUS SCIENCE...	12	20	1			1200			1200	1	20	12	MISCELLANEOUS SCIENCE ROOM...	18	
	19	MISCELLANEOUS SCIENCE...	12	20	1	1200			1200			1	20	12	MISCELLANEOUS SCIENCE ROOM...	20	
	21	MISCELLANEOUS SCIENCE...	8	20	1		1200			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				10064 W			12336 W			11036 W					
		Total Amps:				84 A			104 A			93 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 33436 VA
Total Est. Demand: 28836 VA
Total Conn.: 93 A
Total Est. Demand: 80 A

Panel: 8-L2

Location: ELEC. B207 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 8-L1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	RECEPTS. MECH. C240	12	20	1	360				540			1	20	12	RECEPTS. Room B201	2	
	3	RECEPTS. SCIENCE ROOM...	8	20	1		1080				1260		1	20	8	RECEPTS. SCIENCE ROOM B201	4	
	5	RECEPTS. SCIENCE...	8	20	1			1080			240	1	20	12	RECEPTS. B211	6	
	7	MISCELLANEOUS SCIENCE...	12	20	1	600			180				1	20	12	MISCELLANEOUS SCIENCE...	8	
	9	RECEPTS. B205	12	20	1		540			900			1	20	8	RECEPTS. Room B202	10	
	11	RECEPTS. SCIENCE ROOM...	10	20	1			1080			1080	1	20	10	RECEPTS. SCIENCE ROOM B205	12	
	13	RECEPTS. B206	12	20	1	540			1080				1	20	10	RECEPTS. Room B206, B266	14	
	15	RECEPTS. SCIENCE ROOM...	12	20	1		1080			1080		1	20	12	RECEPTS. SCIENCE WORKROOM...	16	
	17	MISCELLANEOUS B208	12	20	1			1200			600	1	20	12	MISCELLANEOUS	18	
	19	MISCELLANEOUS B208	12	20	1	180			540			1	20	12	RECEPTS. B209	20	
	21	RECEPTS. SCIENCE ROOM...	12	20	1		1080			1080		1	20	10	RECEPTS. SCIENCE ROOM B209	22	
	23	RECEPTS. B211	12	20	1			540			1080	1	20	10	RECEPTS. SCIENCE ROOM B211	24	
	25	RECEPTS. Room B211	10	20	1	900			180			1	20	12	RECEPTS. ELEC. B207	26	
	27	MISCELLANEOUS ELEC. B207	12	20	1		180			240		1	20	12	RECEPTS. B201	28	
	29	RECEPTS. B205	12	20	1			240			240	1	20	12	RECEPTS. B206	30	
	31	RECEPTS. B209	12	20	1	240			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				5340 W			8520 W			7380 W					
		Total Amps:				45 A			74 A			64 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 21240 VA
Total Est. Demand: 17090 VA
Total Conn.: 59 A
Total Est. Demand: 47 A

Panel: 8-HE

Location: ELEC. B207 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
(L)	1	LIGHTS C240	12	20	1	320			2192			1	20	12	LIGHTS B208, B209, B211	2	(L)
	3	SPARE	--	20	1		0			0		1	20	--	SPARE	4	
	5	SPARE	--	20	1			0			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				2512 W			0 W			0 W					
		Total Amps:				9 A			0 A			0 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 2512 VA
Total Est. Demand: 3140 VA
Total Conn.: 3 A
Total Est. Demand: 4 A

Panel: 8-HS

Location: ELEC. B207 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: ST1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	8-TS	RISER	50	3	5656				0			1	20	--	SPARE	2	
--	3	--	--	--	--		8872				0		1	20	--	SPARE	4	
--	5	--	--	--	--			6456			0		1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0				1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0			1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0		1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0				1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0			1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0		1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0				1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0			1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0		1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0				1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0			1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0		1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0				1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0			1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0		1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0				1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0			1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0		1	20	--	SPARE	42	
		Total Load:				5656 W			8872 W			6456 W					
		Total Amps:				20 A			32 A			24 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 20984 VA
Total Est. Demand: 17572 VA
Total Conn.: 25 A
Total Est. Demand: 21 A

Panel: 8-LS

Location: ELEC. B207 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 8-TS | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{H}	1	A/C EQUIPMENT	12	20	2	2080			720			1	20	10	RECEPTS. IDF B203	2	{R}
--	3	--	--	--	--		2080			2496		2	30	10	RECEPTS. IDF B203	4	{R}
{R}	5	RECEPTS. IDF B203	12	20	1			360			2496	--	--	--	--	6	--
{R}	7	RECEPTS. IDF B203	12	20	1	360			2496			2	30	10	RECEPTS. IDF B203	8	{R}
{R}	9	RECEPTS. IDF B203	6	20	1		1800			2496		--	--	--	--	10	--
{R}	11	RECEPTS. IDF B203	6	20	1			1800			1800	1	20	8	RECEPTS. IDF B203	12	{R}
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				5656 W			8872 W			6456 W					
		Total Amps:				47 A			75 A			55 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 20984 VA
Total Est. Demand: 17572 VA
Total Conn.: 58 A
Total Est. Demand: 49 A

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.09
Drawn By: MH	
Date: 07.15.2026	

7/13/2026 3:07:33 PM
Autodesk Docs://TOMBALL ISD - IS REPLACEMENT/00802-04-01_Tomball ISD IS Replacement_ELEC.rvt

Panel: 9-H1

Location: ELEC. D206 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: MDP1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{H}	1	AHU-6	12	20	3	1773			9116			3	50	RISER	b-T1	2	
--	3	--	--	--	--		1773			9728		--	--	--	--	4	--
--	5	--	--	--	--			1773			5196	--	--	--	--	6	--
{L}	7	LIGHTS D203, D204, D207	12	20	1	1726			587			1	20	12	LIGHTS Room B286, B288, B287	8	{L}
{L}	9	LIGHTS E222	12	20	1		369			5983		3	40	8	AHU-7	10	{H}
{H}	11	A/C EQUIPMENT	12	20	1			1800			5983	--	--	--	--	12	--
	13	SPARE	--	20	1	0			5983			--	--	--	--	14	--
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				19185 W			17853 W			14752 W					
		Total Amps:				71 A			66 A			53 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 51791 VA
Total Est. Demand: 51012 VA
Total Conn.: 62 A
Total Est. Demand: 61 A

Panel: 9-L1

Location: ELEC. D206 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: b-T1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{R}	1	9-L2	RISER	60	3	7140			728			2	20	12	A/C EQUIPMENT	2	{H}
--	3	--	--	--	--		8820			728		--	--	--	--	4	--
--	5	--	--	--	--			4140			528	1	20	12	EXHAUST FAN	6	{H}
{R}	7	RECEPTS. ROOF	12	20	1	720			528			1	20	12	EXHAUST FAN	8	{H}
{R}	9	RECEPTS. ROOF	12	20	1		180			0		1	20	--	SPARE	10	
{H}	11	EXHAUST FAN	12	20	1			528			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				9116 W			9728 W			5196 W					
		Total Amps:				81 A			86 A			43 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 24040 VA
Total Est. Demand: 22590 VA
Total Conn.: 67 A
Total Est. Demand: 63 A

Panel: 9-L2

Location: ELEC. D206 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: 9-L1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	MISCELLANEOUS SCIENCE...	12	20	1	180			600			1	20	12	MISCELLANEOUS	2	
	3	RECEPTS. SCIENCE...	8	20	1		1080			1200		1	20	8	MISCELLANEOUS	4	
	5	RECEPTS. Room D203	10	20	1			1080			540	1	20	12	RECEPTS. SCIENCE ROOM D203	6	
	7	RECEPTS. SCIENCE ROOM...	10	20	1	1080			1080			1	20	10	RECEPTS. SCIENCE ROOM D204	8	
	9	RECEPTS. SCIENCE ROOM...	12	20	1		540			1080		1	20	12	RECEPTS. SCIENCE ROOM D204	10	
	11	MISCELLANEOUS SCIENCE...	12	20	1			180			600	1	20	12	MISCELLANEOUS	12	
	13	RECEPTS. SCIENCE...	12	20	1	1080			1200			1	20	12	MISCELLANEOUS	14	
	15	RECEPTS. Room D208	12	20	1		1080			1080		1	20	10	RECEPTS. SCIENCE ROOM D208	16	
	17	RECEPTS. SCIENCE ROOM...	12	20	1			540			720	1	20	12	RECEPTS. Room F202	18	
	19	RECEPTS. F202	12	20	1	240			240			1	20	12	WATER HEATER	20	
	21	RECEPTS. D206	12	20	1		180			180		1	20	12	MISCELLANEOUS ELEC. D206	22	
	23	RECEPTS. SCIENCE ROOM...	12	20	1			240			240	1	20	12	RECEPTS. SCIENCE ROOM D204	24	
	25	RECEPTS. SCIENCE ROOM...	12	20	1	240			1200			1	20	12	MISCELLANEOUS SCIENCE ROOM...	26	
	27	MISCELLANEOUS SCIENCE...	12	20	1		1200			1200		1	20	12	MISCELLANEOUS SCIENCE ROOM...	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				7140 W			8820 W			4140 W					
		Total Amps:				63 A			77 A			35 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 20100 VA
Total Est. Demand: 19100 VA
Total Conn.: 56 A
Total Est. Demand: 53 A

Panel: 9-HE

Location: ELEC. D206 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: EM1 | **Phas...** 3 | **Mains Rating:** 60 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{L}	1	LIGHTS D204, D207, D203	12	20	1	920			0			1	20	--	SPARE	2	
	3	SPARE	--	20	1		0			0		1	20	--	SPARE	4	
	5	SPARE	--	20	1			0			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				920 W			0 W			0 W					
		Total Amps:				3 A			0 A			0 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 920 VA
Total Est. Demand: 1150 VA
Total Conn.: 1 A
Total Est. Demand: 1 A

Panel: 9-HS

Location: ELEC. D206 | **Volts:** 480Y/277V WYE | **A.I.C. Rating:** 42,000
Supply From: ST1 | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: | **Wires:** 4 | **Mains Type:** MLO

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
	1	b-TS	RISER	50	3	7912			0			1	20	--	SPARE	2	
--	3	--	--	--	--		4312			0		1	20	--	SPARE	4	
--	5	--	--	--	--			7512			0	1	20	--	SPARE	6	
	7	SPARE	--	20	1	0			0			1	20	--	SPARE	8	
	9	SPARE	--	20	1		0			0		1	20	--	SPARE	10	
	11	SPARE	--	20	1			0			0	1	20	--	SPARE	12	
	13	SPARE	--	20	1	0			0			1	20	--	SPARE	14	
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				7912 W			4312 W			7512 W					
		Total Amps:				30 A			16 A			29 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 19736 VA
Total Est. Demand: 16324 VA
Total Conn.: 24 A
Total Est. Demand: 20 A

Panel: 9-LS

Location: ELEC. D206 | **Volts:** 208Y/120V WYE | **A.I.C. Rating:** 42,000
Supply From: b-TS | **Phas...** 3 | **Mains Rating:** 100 A
Mounting: SURFACE | **Wires:** 4 | **Mains Type:** MCB

NO...	C...	CIRCUIT DESCRIPTION	WIRE	BRKR	#	A	B	C	A	B	C	#	BRKR	WIRE	CIRCUIT DESCRIPTION	C...	NO...
{H}	1	A/C EQUIPMENT	12	20	2	728			728			2	20	12	A/C EQUIPMENT	2	{H}
--	3	--	--	--	--		728			728		--	--	--	--	4	--
{R}	5	RECEPTS. IDF D202	10	20	1			720			2496	2	30	8	RECEPTS. IDF D202	6	{R}
{R}	7	RECEPTS. IDF D202	12	20	1	360			2496			--	--	--	--	8	--
{R}	9	RECEPTS. IDF D202	12	20	1		360			2496		2	30	8	RECEPTS. IDF D202	10	{R}
{R}	11	RECEPTS. IDF D202	8	20	1			1800			2496	--	--	--	--	12	--
{R}	13	RECEPTS. IDF D202	8	20	1	1800			1800			1	30	8	RECEPTS. IDF D202	14	{R}
	15	SPARE	--	20	1		0			0		1	20	--	SPARE	16	
	17	SPARE	--	20	1			0			0	1	20	--	SPARE	18	
	19	SPARE	--	20	1	0			0			1	20	--	SPARE	20	
	21	SPARE	--	20	1		0			0		1	20	--	SPARE	22	
	23	SPARE	--	20	1			0			0	1	20	--	SPARE	24	
	25	SPARE	--	20	1	0			0			1	20	--	SPARE	26	
	27	SPARE	--	20	1		0			0		1	20	--	SPARE	28	
	29	SPARE	--	20	1			0			0	1	20	--	SPARE	30	
	31	SPARE	--	20	1	0			0			1	20	--	SPARE	32	
	33	SPARE	--	20	1		0			0		1	20	--	SPARE	34	
	35	SPARE	--	20	1			0			0	1	20	--	SPARE	36	
	37	SPARE	--	20	1	0			0			1	20	--	SPARE	38	
	39	SPARE	--	20	1		0			0		1	20	--	SPARE	40	
	41	SPARE	--	20	1			0			0	1	20	--	SPARE	42	
		Total Load:				7912 W			4312 W			7512 W					
		Total Amps:				70 A			36 A			67 A					

NOTES:
1. Provide GFCI Breaker
2. Circuit Via Energy Management System
3. Circuit Via Photo Cell Operation / DDC Controller
4. Provide Breaker and Fuses Per Manufacturers Recommendation
5. Provide H.A.C.R. Breaker
6. Provide a Lock on Breaker

PANEL TOTALS
Total Conn. Load: 19736 VA
Total Est. Demand: 16324 VA
Total Conn.: 55 A
Total Est. Demand: 45 A

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

IEG
Innovative Engineering Group
www.iegengineers.com
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STATE OF TEXAS
B. KYLE HASKOVEC
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LICENSED
PROFESSIONAL ENGINEER
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ELECTRICAL PANEL SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	E5.10
Drawn By: MH	
Date: 07.15.2026	

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COMMON SPACES INCLUDES THE FOLLOWING SPACES:
• CORRIDORS • VESTIBULES • STAIRCASES • GROUP RESTROOMS

LIGHTING CONTROL SYSTEM NOTES - CORRIDORS AND COMMON SPACES

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL MODULE - MOUNTED ABOVE CEILING
- OCCUPANCY SENSOR
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM
- ALL FIXTURES IN CORRIDORS AND COMMON AREAS SHALL BE CONNECTED TO OWNER'S ENERGY MANAGEMENT SYSTEM.

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (FIXTURES ON TO 100%)

UPON ENTERING THE SPACE THE OCCUPANCT SENSOR SHALL AUTOMATICALLY TURN ON THE LIGHT FIXTURES TO 100%. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE OR THE SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE VIA KEYED SWITCH (ON/OFF).

CORRIDORS/VESTIBULES/STAIRCASES: THE SYSTEM SHALL DIM ALL LIGHT FIXTURES TO 50% WITHIN 20 MINUTES OF WHEN THE SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

RESTROOMS: WHEN THE SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED, THE SYSTEM SHALL BLINK THE LIGHTS 5 MINUTES BEFORE TURNING OFF THE FIXTURES IN THE SPACE.

GENERAL NOTES

- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING
- CORRIDORS AND OTHER COMMON SPACES SHALL BE CONTROLLED VIA BAS SYSTEM.

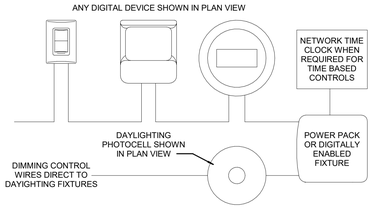
ACCEPTABLE SYSTEMS ARE AS FOLLOWS:

- ACUITY BRANDS - NLIGHT
- HUBBELL - NX
- COOPER
- LUTRON - ENERGI SAVR NODE

2 E6.01 LIGHTING CONTROL SYSTEM NOTES - CORRIDORS AND COMMON SPACES
N.T.S.

DIGITAL LIGHTING CONTROLS NOTES AND DETAIL

DIGITAL LIGHTING CONTROLS GENERAL NOTES:
1. ALL POWER PACKS TO BE MOUNTED ABOVE CEILING NEAREST THE FIRST WALL SWITCH SERVING THE ASSOCIATED ROOM. PLAN VIEW SHOWS QUANTITY OF ZONES REQUIRED MANUFACTURER MAY COMBINE POWER PACKS WHERE POSSIBLE INTO MULTI ZONE POWER PACKS.
2. DETAIL IS GENERIC IN NATURE. PLAN VIEWS WILL INDICATE NUMBER OF ZONES, PROVIDE POWER PACK OR EQUIVALENT FOR EACH ZONE. PLAN VIEW WILL INDICATE LOCATION OF DIGITAL WALL SWITCHES WITH NUMBER OF BUTTONS REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL SYSTEM.
4. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

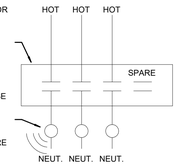


EXTERIOR LIGHTING CONTROL DETAIL

EXTERIOR LIGHTING CONTROL GENERAL NOTES:
1. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL, AND DDC CONTROLS THROUGH BMS FOR SCHEDULING. PROVIDE ONE RELAY OR CONTACT PER ZONE REQUIRED.
2. PROVIDE TIMED OVERRIDE SWITCH FOR SPECIAL EVENTS AND TESTING.

PROVIDE CONTACTORS FOR EXTERIOR LIGHTING CONTROLLED BY DDC CONTROLS. SEPARATE ZONES/CONTACTORS SHALL BE PROVIDED FOR SITE LIGHTING, FLAG POLE LIGHTING, AND BUILDING MOUNTED/CANOPY/LANDSCAPE LIGHTING CIRCUITS.

ENERGY CODE SETBACK WILL BE BY INTEGRAL MOTION SENSOR ON FIXTURE TO ACHIEVE MINIMUM 50% REDUCTION IN TOTAL SITE LIGHTING POWER WHERE SPECIFIED WITH FIXTURE



EXTERIOR LIGHTING ENERGY CODE REQUIREMENTS :
1. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED AS A FUNCTION OF AVAILABLE LIGHT USING A PHOTOCELL, IN ADDITION TO DDC CONTROLS.
2. EXTERIOR SITE LIGHTING SHALL TURN ON/OFF BASED ON AVAILABLE LIGHT VIA PHOTOCELL INPUT. SITE LIGHTING SHALL REDUCE BY MINIMUM OF 50%, VIA INTEGRAL SENSORS, ANYTIME ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES OR MORE.
3. BUILDING MOUNTED, CANOPY, AND LANDSCAPE LIGHTING SHALL AUTOMATICALLY SHUT OFF NO LATER THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING. COORDINATE WITH OWNER FOR SCHEDULE.
4. EXEMPTIONS TO EXTERIOR LIGHTING:
   A. EMERGENCY EGRESS LIGHTING
   B. COVERED VEHICLE ENTRANCES TO PARKING STRUCTURES

LIGHTING CONTROL GENERAL NOTES:

SENSOR LOCATIONS ARE MINIMUMS, CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 10% ADDITIONAL DEVICES TO COVER DARK SPOTS DISCOVERED DURING CONSTRUCTION FROM FIELD INSTALLED OBSTRUCTIONS. CONTRACTOR SHALL ALSO ALLOW FOR A MOVE OF UP TO 5'-0" IN ANY DIRECTION FOR ALL SENSORS AT NO ADDITIONAL COST TO THE OWNER, TO ALLOW FOR FIELD ADJUSTMENT OF SENSOR PLACEMENTS TO ACHIEVE OPTIMUM PERFORMANCE.

GENERAL ENERGY CODE REQUIREMENTS :

ALL AREAS LISTED BELOW SHALL HAVE OCCUPANCY SENSOR CONTROL:
- CLASSROOMS/LECTURE/TRAINING ROOMS.
- CONFERENCE/MEETING/MULTIPURPOSE ROOMS
- COPY/PRINT ROOMS
- LOUNGES
- EMPLOYEE LUNCH AND BREAK ROOMS
- PRIVATE OFFICES
- RESTROOMS
- STORAGE ROOMS
- JANITORIAL CLOSETS
- LOCKER ROOMS
- OTHER ENCLOSED SPACES 300 SQ.FT. OR LESS

FOR OCCUPANCY SENSORS, AUTOMATIC ON TO 100% OUTPUT IS ALLOWED FOR PUBLIC CORRIDORS, LOBBIES AND SIMILAR PUBLIC USE ONLY AREAS. AUTOMATIC SENSORS ON SHALL BE PROGRAMMED TO AUTOMATICALLY TURN ON LIGHTING TO NO MORE THAN 50% IN OTHER SPACES IN ACCORDANCE WITH IECC REQUIREMENTS.

AREAS NOT EXEMPTED FROM TIME BASE CONTROLS SHALL HAVE LIGHT REDUCTION CONTROLS (DIMMER) LOCATED IN SPACE FOR MINIMUM 50% REDUCTION BY OCCUPANT.

LIGHTING REDUCTION IS NOT REQUIRED FOR ROOMS WITH ONLY ONE LIGHT FIXTURE, ROOMS USING LESS THAN .6W/SQ.FT. CORRIDORS, EQUIPMENT ROOMS, AND PUBLIC LOBBIES.

AREAS THAT HAVE SPECIAL EXEMPTIONS THAT MUST BE EVALUATED ON CASE BY CASE BASIS. THESE AREAS INCLUDE SLEEPING AREAS AND PATIENT CARE AREAS, AREAS WHERE AUTOMATIC LIGHTING SHUTOFF WOULD ENDANGER LIFE SAFETY, DWELLING UNITS WITHIN COMMERCIAL BUILDINGS, AND WALK-IN COOLER AND FREEZERS.

THE "SR" ZONE SYMBOL IDENTIFIES AREAS WHERE AUTOMATIC LIGHTING CONTROLS WOULD ENDANGER LIFE SAFETY OR ARE EXEMPT FOR EGRESS RELATED LIFE SAFETY REASONS.

CONTRACTOR SHALL COORDINATE WITH OWNER TO PROGRAM TIME DELAY FOR ALL OCCUPANCY SENSORS BY ROOM TYPE. FOR EXAMPLE, RESTROOMS, CORRIDORS, OFFICES, ETC., SHALL ALL BE PROGRAMMED TO THE OFF OR DIM DELAY TIME ESTABLISHED BY THE OWNER. CONTRACTOR SHALL ZONE ALL EXTERIOR LIGHTING AS DESIRED BY OWNER. CONTRACTOR SHALL SET ZONE SCHEDULES AS REQUIRED BY WNER, INCLUDING SETTING DIM LEVELS, ETC.

CONTRACTOR SHALL SCHEDULE MINIMUM OF THREE SEPARATE ON-SITE WORK PERIODS WITH THE LIGHTING CONTROLS REPRESENTATIVE.

MEETING #1 - PRE-CONSTRUCTION MEETING:
ELECTRICAL CONTRACTOR AND GC SHALL SCHEDULE THIS MEETING BETWEEN THE OWNER, LIGHTING CONTROLS REPRESENTATIVE AND ELECTRICAL CONTRACTOR. AT THIS MEETING, APPROVED SUBMITTALS SHALL BE REVIEWED, TIMELINES FOR STARTUP AND OWNER TRAINING SHALL BE ESTABLISHED. ADDITIONALLY, OWNER'S REP SHALL PROVIDE DESIRED SCENES AND SCHEDULES AT THIS TIME. DURING THIS MEETING, THE TWO MEETINGS DESCRIBED BELOW SHALL BE SCHEDULED.

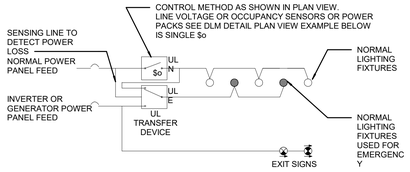
MEETING #2 - LIGHTING CONTROLS ON-SITE STARTUP:
ALL LIGHTING CONTROL WIRING SHALL BE INSTALLED AND TERMINATED BY THE ELECTRICAL CONTRACTOR BEFORE THIS MEETING IS HELD. THE SYSTEM SHALL BE FUNCTIONALLY TESTED AND CONFIRMED TO BE 100% OPERATIONAL AT THIS TIME. OWNER ESTABLISHED PRE-SETS AND SCHEDULES SHALL BE ESTABLISHED AT THIS TIME.

MEETING #3 - LIGHTING CONTROLS OWNER TRAINING AND ADJUSTMENT:
THIS MEETING SHALL CONSIST OF THREE DAYS OF OWNER TRAINING, INCLUDING HOW TO INDIVIDUALLY CONTROL EACH LIGHTING ZONE USING THE PORTABLE SCREEN.

CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE OWNER TRAINING MEETING A MINIMUM OF THREE WEEKS BEFORE THE SPACE IS COMPLETED AND TURNED OVER TO THE OWNER. CONTRACTOR SHALL SCHEDULE THIS MEETING A MINIMUM OF THREE WEEKS BEFORE THE MEETING DATE. CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE WEEKS NOTICE TO CONTROL REP FOR ALL THREE MEETINGS/SITE VISITS.

ELECTRICAL CONTRACTOR IS TO HIRE COMMISSIONING AGENT TO COMMISSION LIGHTING CONTROLS. CONTRACTOR SHALL PROVIDE A WRITTEN TEST REPORT INDICATING THAT ALL LIGHTING CONTROL SYSTEMS HAVE BEEN COMMISSIONED AND TESTED, AND FOUND TO BE FUNCTIONING IN ACCORDANCE WITH CONTRACT DOCUMENT AND CODE REQUIREMENTS. CONTRACTOR SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH IECC SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPES.

1 E6.01 LIGHTING CONTROLS DETAIL
N.T.S.



WIRING DIAGRAM



PLAN VIEW DRAFTING SHOWN FOR CLARITY AS LOOPED CIRCUIT CONNECTIONS. ACTUAL WIRING TO FOLLOW WIRING DIAGRAM ABOVE FOR INTERCONNECTION OF ELEMENTS.

PLAN VIEW DIAGRAM

NOTE:
EMERGENCY BALLAST MUST BE FED FROM SAME BRANCH CIRCUIT AS MORMAL LIGHTING

ALL EQUIPMENT SERVING EMERGENCY LIGHTING TO BE LISTED PER NEC 700.16

OPERATION:
NORMAL FIXTURE FOLLOWS CONTROL METHOD SHOWN.
LOSS OF POWER FORCES EMERGENCY ILLUMINATION VIA INVERTER OR GENERATOR

GENERATOR OR INVERTER EMERGENCY POWER FEED

LIGHTING CONTROL SYSTEM NOTES - TYPICAL CLASSROOM

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL STATION - WITH ENGRAVED BUTTONS TO CLEARLY INDICATE SWITCH FUNCTIONS
- OCCUPANCY SENSOR
- CONTROL MODULE - MOUNTED ABOVE CEILING - ONE CONTROLLER PER CLASSROOM
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (FIXTURES MANUALLY ON TO 100%)

UPON THE OCCUPANT ENTERING THE SPACE AND MANUALLY TURNING ON THE LIGHTS, THE LIGHT FIXTURES SHALL TURN BOTH LIGHTING ZONES ON TO 100%. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE(ON/OFF) PER ZONE.

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WITHIN 20 MINUTES ONCE THE SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

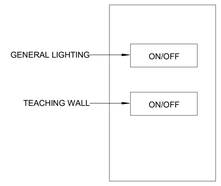
"TEACHING WALL" BUTTON - CONTROLS FIXTURES ABOVE DISPLAY ON TEACHING WALL. DESIGNATED BY 'a' ON LIGHTING PLANS.
"GENERAL LIGHTING" BUTTON - CONTROLS REMAINING FIXTURES IN ROOM. DESIGNATED BY 'b' ON LIGHTING PLANS.

GENERAL NOTES

- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING
- CLASSROOMS SHALL NOT BE CONTROLLED VIA BAS SYSTEM.

ACCEPTABLE SYSTEMS ARE AS FOLLOWS:

- ACUITY BRANDS - NLIGHT
- HUBBELL - NX
- COOPER
- LUTRON - ENERGI SAVR NODE



3 E6.01 LIGHTING CONTROL SYSTEM NOTES - TYPICAL CLASSROOM
N.T.S.

LIGHTING CONTROL SYSTEM NOTES - HIGH VOLUME CEILING SPACES

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL STATION - WITH ENGRAVED BUTTONS TO CLEARLY INDICATE SWITCH FUNCTIONS
- OCCUPANCY SENSOR
- CONTROL MODULE - MOUNTED ABOVE CEILING - ONE CONTROLLER PER CLASSROOM
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (FIXTURES ON TO 100%)

UPON ENTERING THE SPACE THE OCCUPANCT SENSOR SHALL AUTOMATICALLY TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE OR THE SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

AV LIGHTING MODE - (DIM ALL FIXTURES UNIFORMLY. CONFIRM DESIRED LIGHT LEVEL PRIOR TO PROGRAMMING).

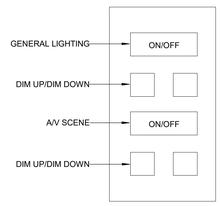
THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "AV LIGHTING" BUTTON AT THE CONTROL STATION. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

GENERAL NOTES

- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING

ACCEPTABLE SYSTEMS ARE AS FOLLOWS:

- ACUITY BRANDS - NLIGHT
- HUBBELL - NX
- COOPER
- LUTRON - ENERGI SAVR NODE



4 E6.01 LIGHTING CONTROL SYSTEM NOTES - HIGH VOLUME CEILING SPACES
N.T.S.

LIGHTING CONTROL SYSTEM NOTES - TYPICAL OTHER

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL STATION - WITH ENGRAVED BUTTONS TO CLEARLY INDICATE SWITCH FUNCTIONS
- OCCUPANCY SENSOR
- CONTROL MODULE - MOUNTED ABOVE CEILING - ONE CONTROLLER PER CLASSROOM
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (FIXTURES MANUALLY ON TO 100%)

UPON THE OCCUPANT ENTERING THE SPACE, THE LIGHT FIXTURES SHALL MANUALLY TURN ON TO 100%. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE(ON/OFF).

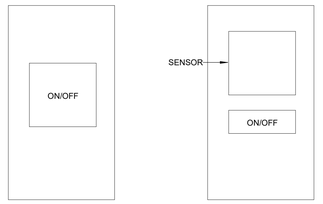
THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WITHIN 20 MINUTES ONCE THE SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

GENERAL NOTES

- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING
- OFFICES, CONFERENCE ROOMS, JANITORS CLOSET, STORAGE ROOM, AND OTHER SUPPORT SPACES SHALL NOT BE CONTROLLED VIA BAS SYSTEM.

ACCEPTABLE SYSTEMS ARE AS FOLLOWS:

- ACUITY BRANDS - NLIGHT
- HUBBELL - NX
- COOPER
- LUTRON - ENERGI SAVR NODE



DIGITAL STYLE LINE- VOLTAGE STYLE

5 E6.01 LIGHTING CONTROL SYSTEM NOTES - TYPICAL NON-CLASSROOM
N.T.S.

Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL ISD TOMBALL, TEXAS

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ELECTRICAL DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No. E6.01
Drawn By: MH	
Date: 07.15.2026	

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LIGHTING CONTROL SYSTEM NOTES - LIBRARY

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL STATION - WITH ENGRAVED BUTTONS TO CLEARLY INDICATE SWITCH FUNCTIONS
- VACANCY SENSOR & DAYLIGHT SENSOR
- CONTROL MODULE - MOUNTED ABOVE CEILING - ONE CONTROLLER PER CLASSROOM
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (MAINTAIN 40 FOOT CANDLES AT 30" AFF)

UPON ENTERING THE SPACE THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "GENERAL LIGHTING" BUTTON AT ONE OF THE CONTROL STATIONS. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ZONE 1 thru ZONE 3 ARE ALL ON

WHEN THE DAYLIGHT SENSOR, IN THE GENERAL LIGHTING MODE, DETECTS THAT ADEQUATE NATURAL LIGHT IS ENTERING THE SPACE, THE SYSTEM SHALL DIM THE DESIGNATED FIXTURE TO MAINTAIN THE PRESET ILLUMINATION LEVEL.

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

50% MODE

THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "AV LIGHTING" BUTTON AT THE TEACHER CONTROL STATION. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ZONE 1 thru ZONE 3 ALL DIMMED TO 50% OUTPUT

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

THE DAYLIGHT SENSOR SHALL BE DEACITVATED WHEN THE SYSTEM IS IN THIS MODE

AV LIGHTING MODE -

THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "AV LIGHTING" BUTTON AT THE TEACHER CONTROL STATION. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

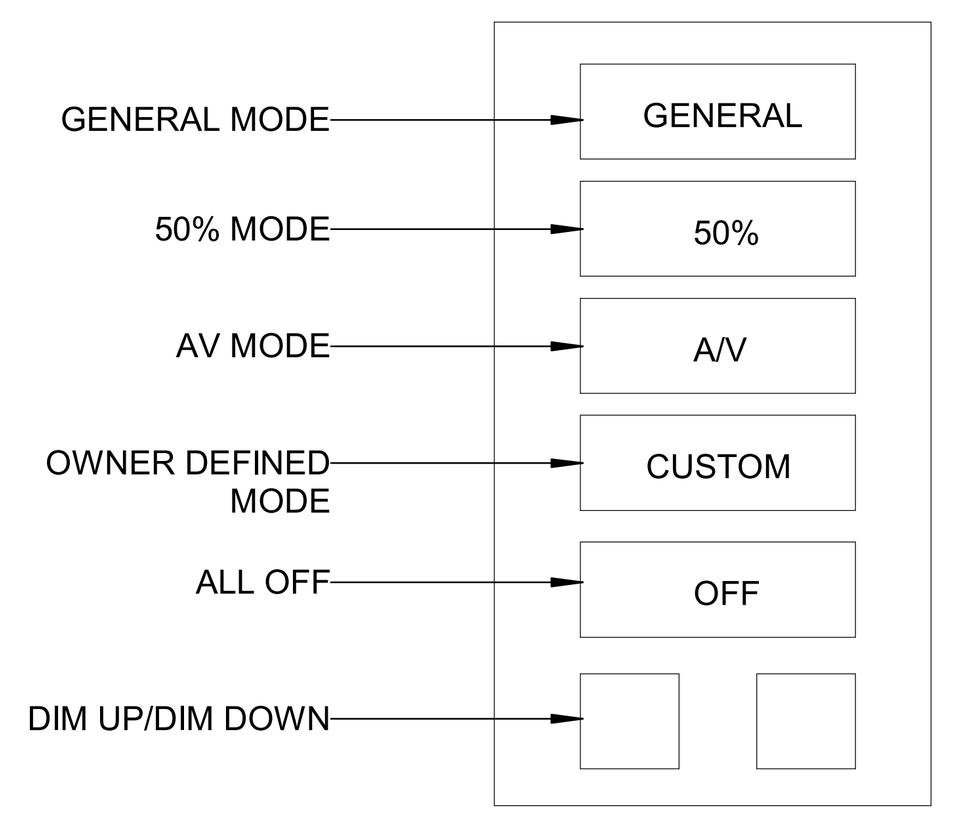
- ZONE 1 OFF, Zones 2 thru ZONE 6 DIMMED TO 25 OUTPUT

THE DAYLIGHT SENSOR SHALL BE DEACITVATED WHEN THE SYSTEM IS IN THIS MODE

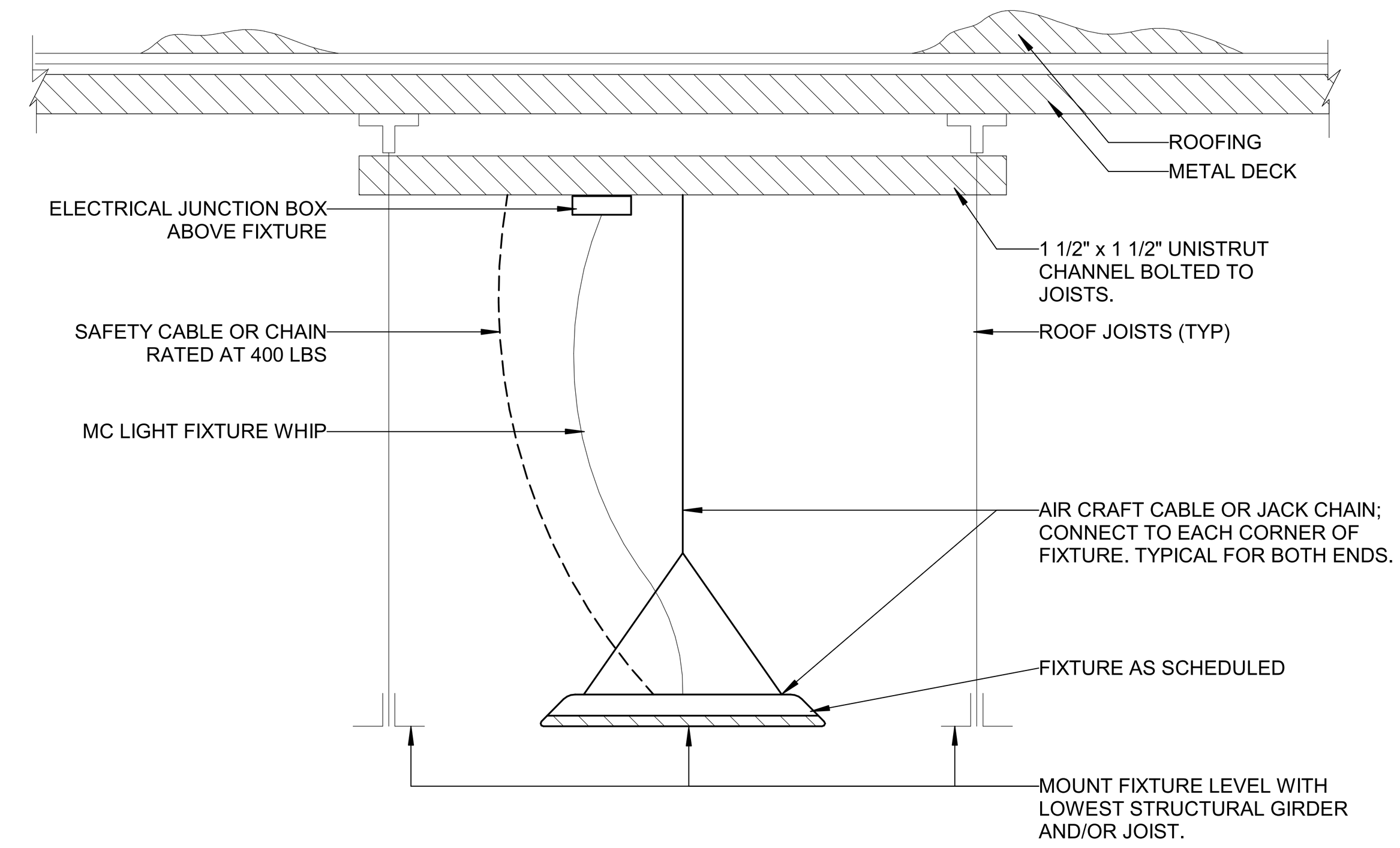
GENERAL NOTES

- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING

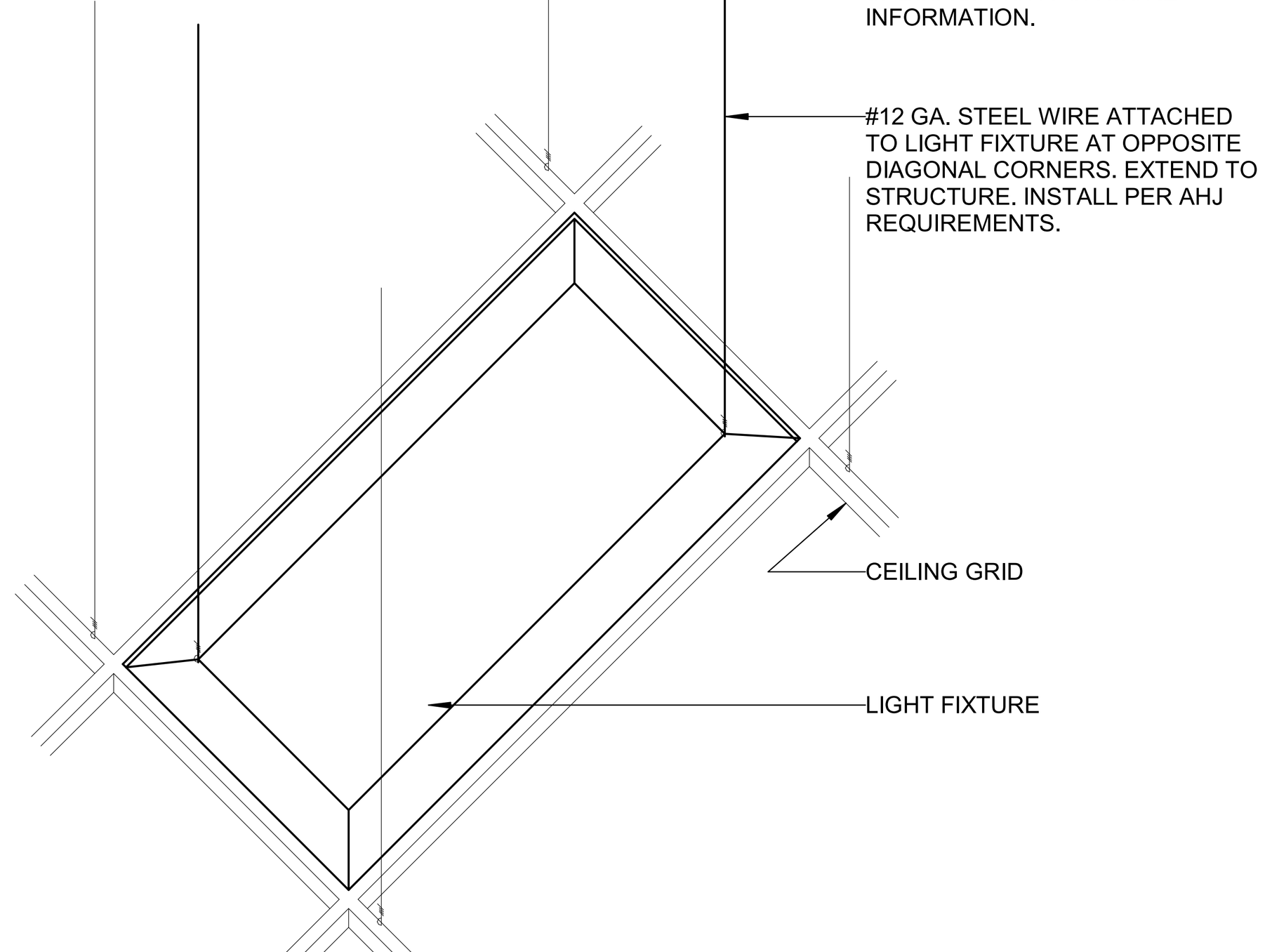
REFER TO SPECIFICATIONS FOR ACCEPTABLE LIGHTING CONTROL SYSTEMS.



1 E6.02 LIGHTING CONTROL SYSTEM NOTES - LIBRARY
N.T.S.



2 E6.02 TYPICAL HIGH BAY FIXTURE SUPPORT DETAIL
N.T.S.



3 E6.02 TYPICAL LIGHT FIXTURE SUPPORT DETAIL
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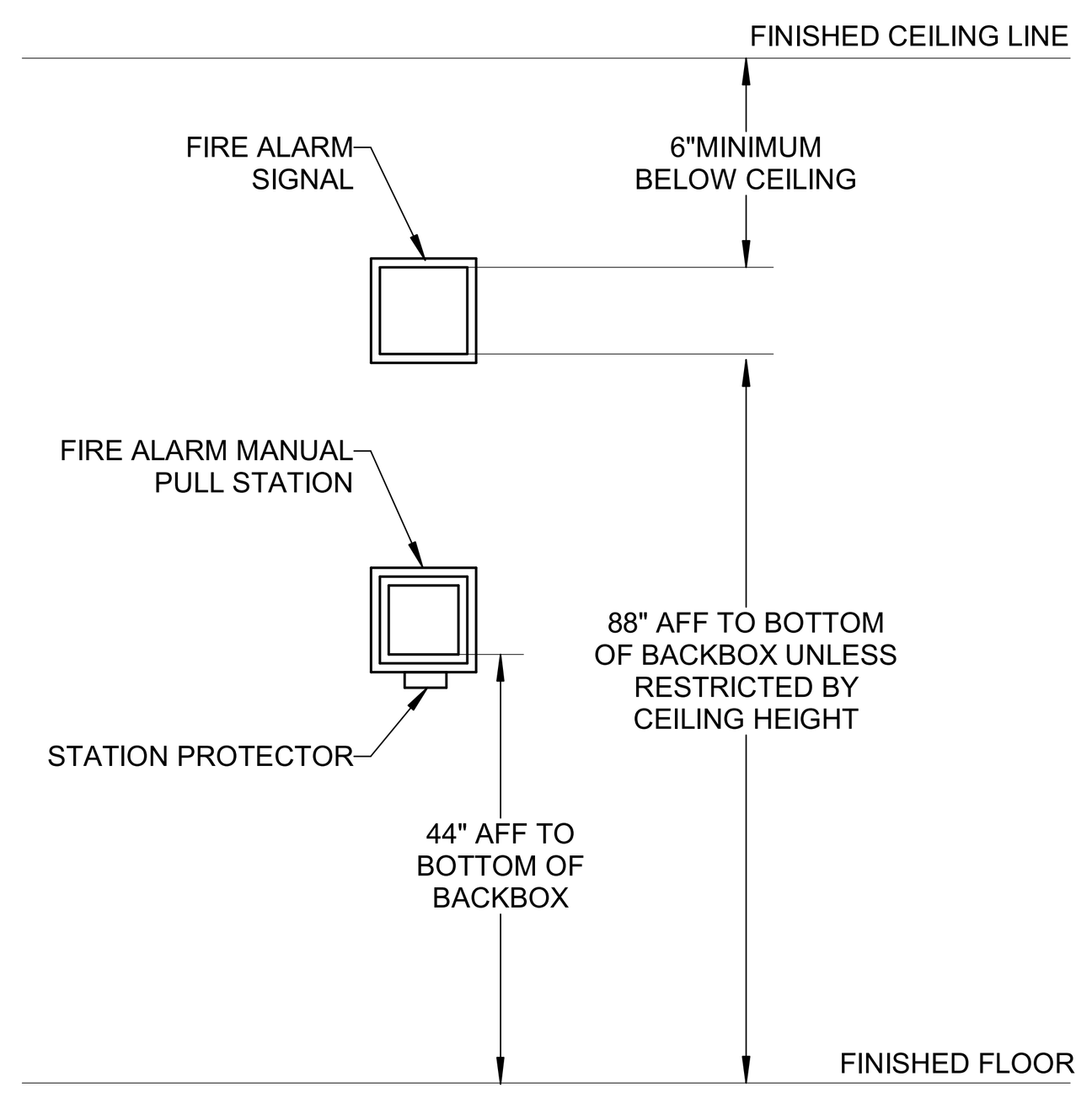
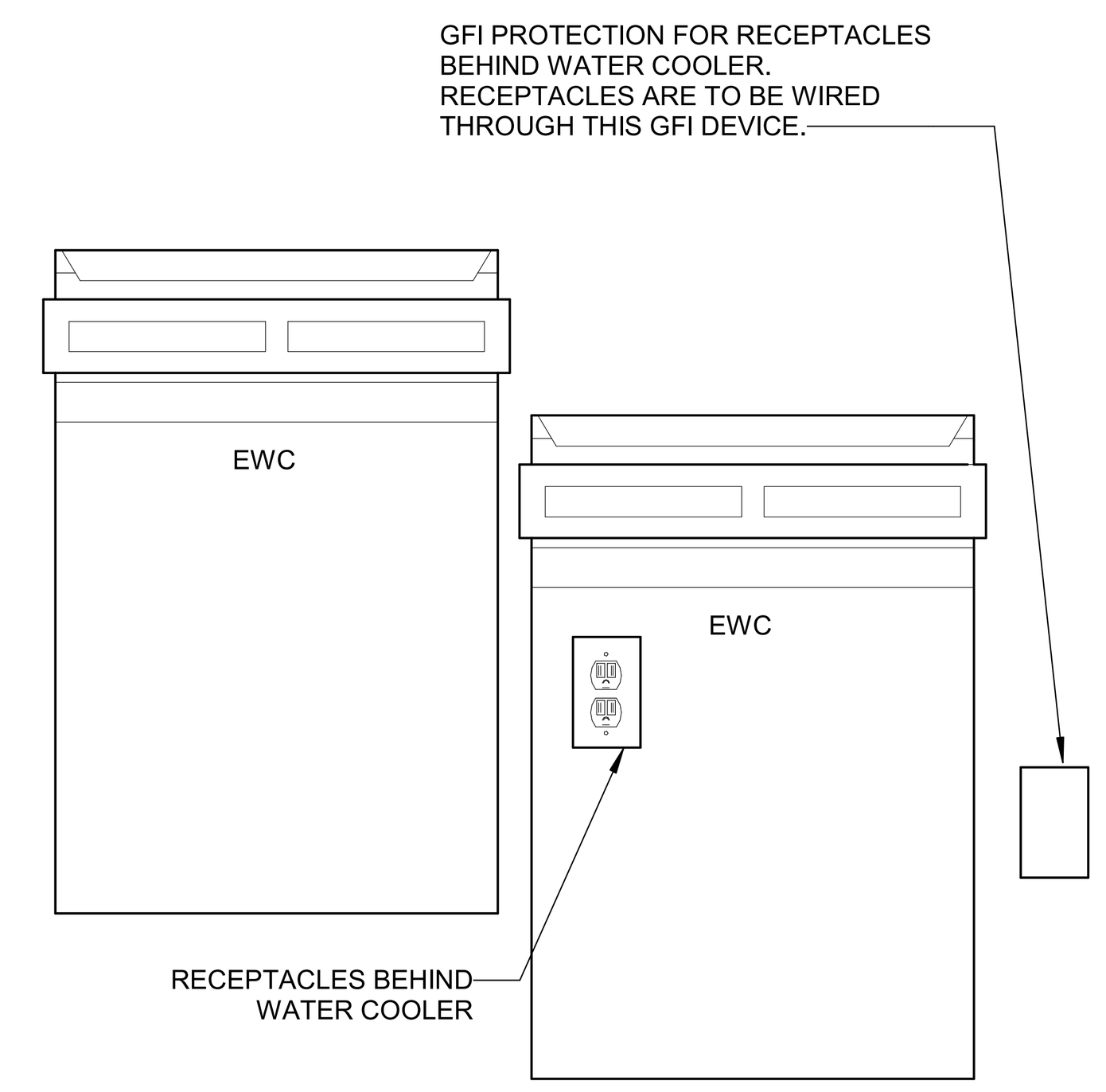
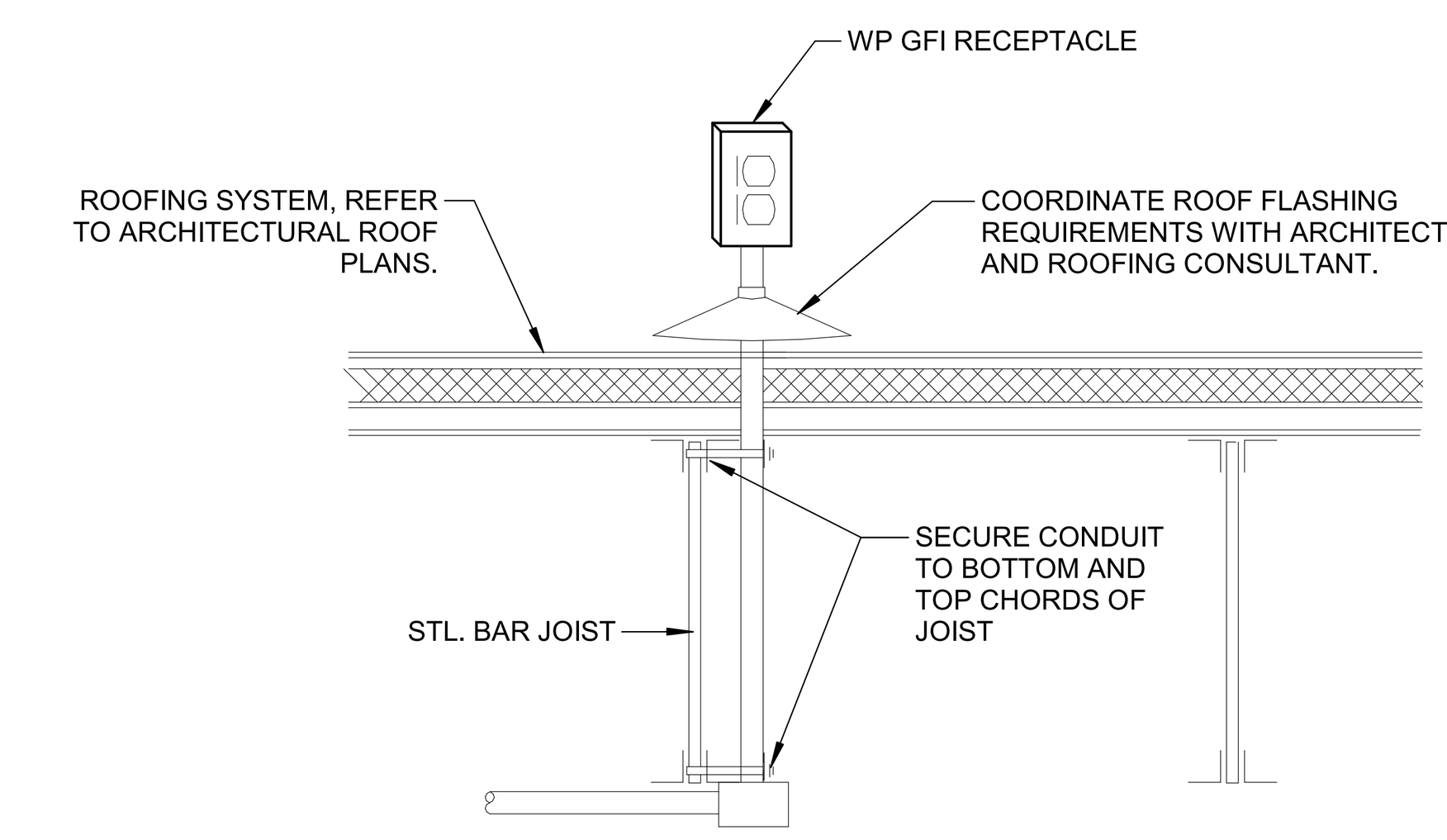


4 E6.02 TYPICAL FIRE ALARM (FA) DEVICE BACKBOXES
N.T.S.

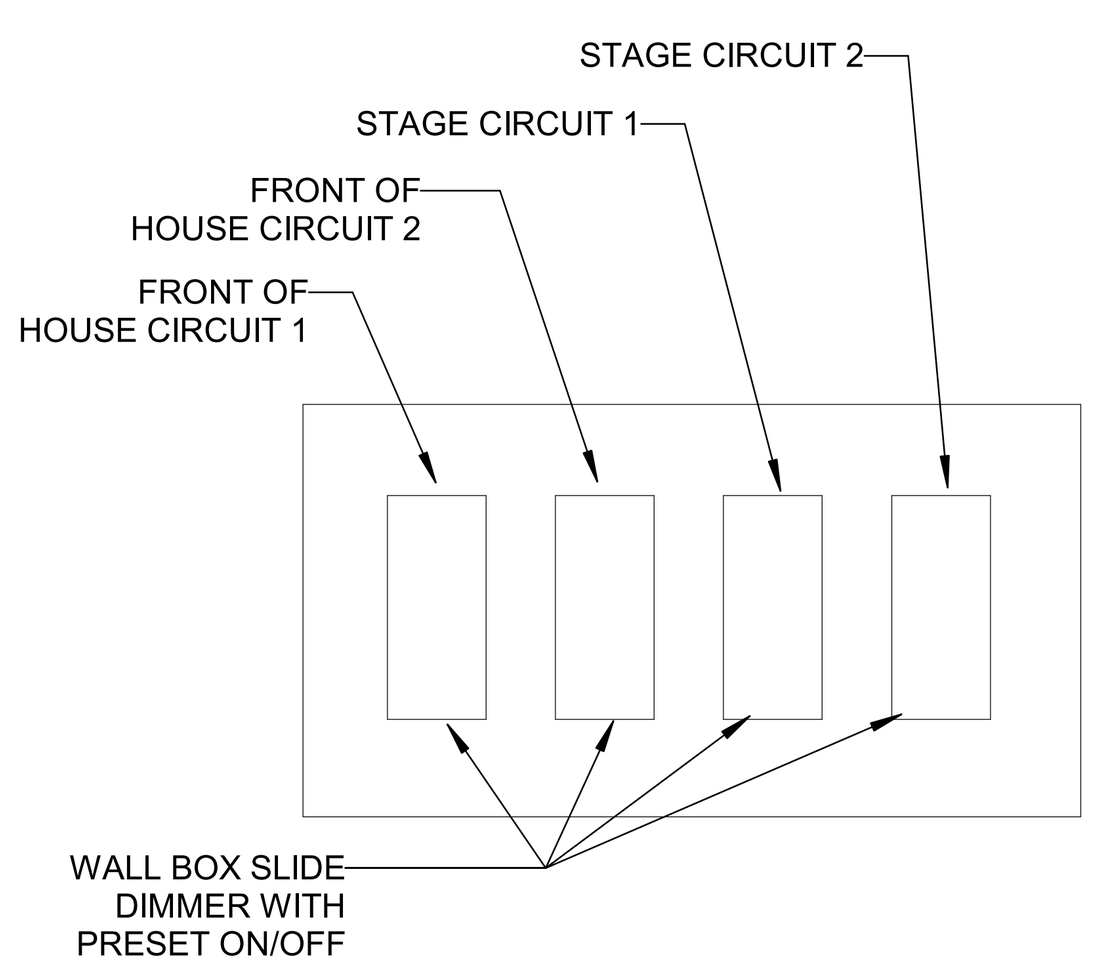


5 E6.02 TYPICAL ELECTRIC WATER COOLER (EWC) GFI DETAIL
N.T.S.

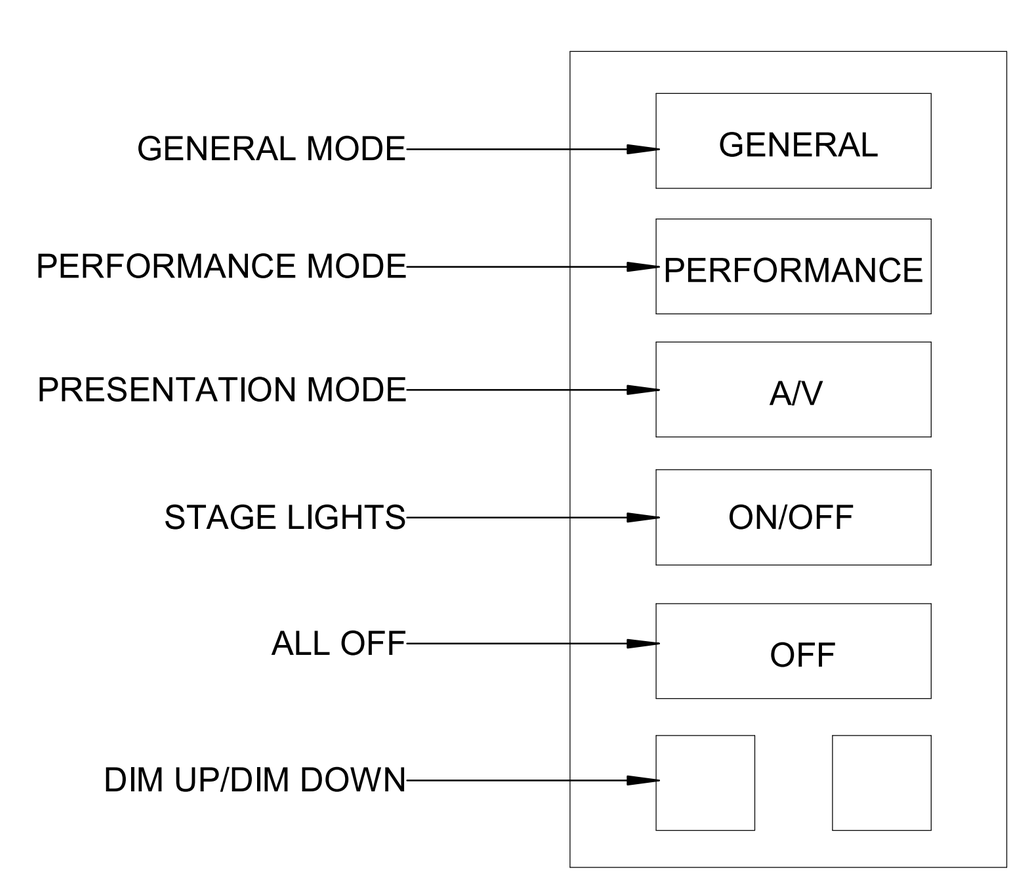


NOTE:
1. VERIFY EXACT LOCATION AND DIMENSIONS WITH ARCHITECT RIOR TO INSTALLATION.

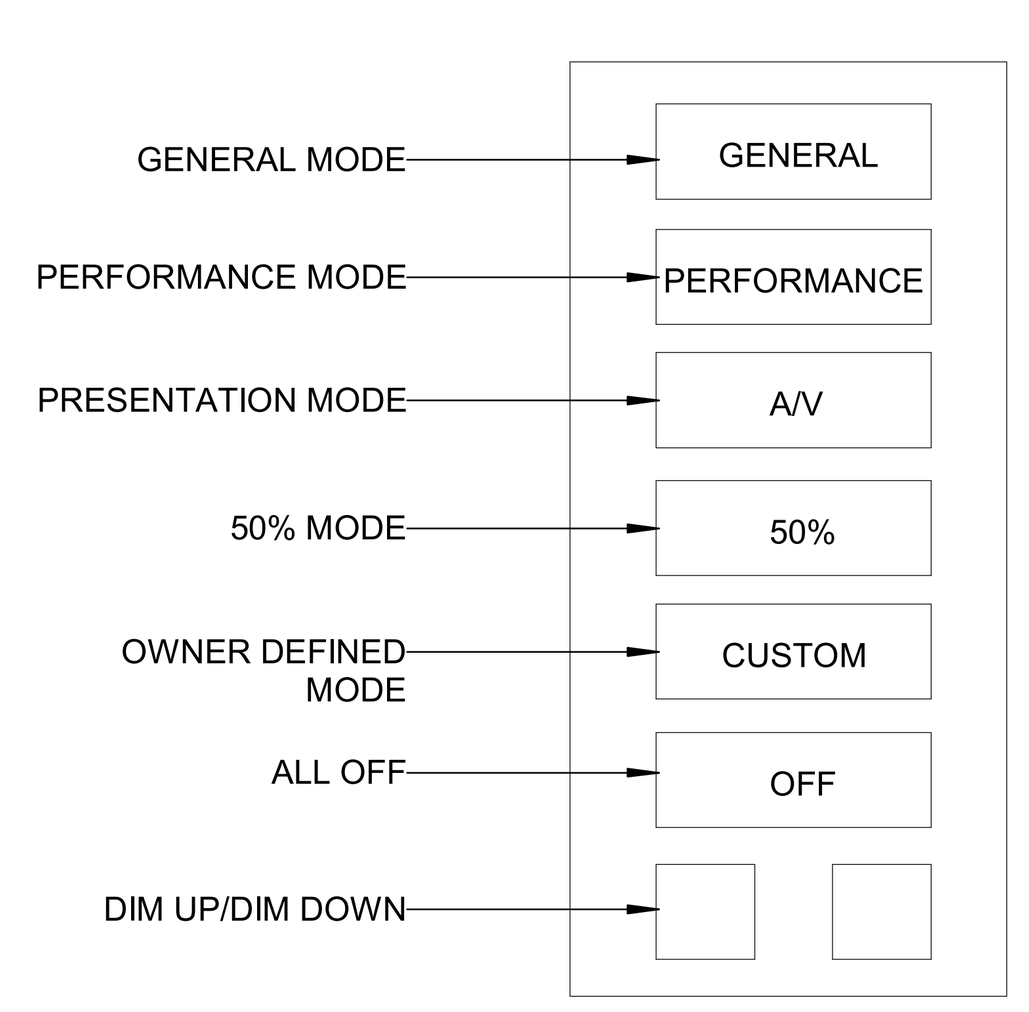
6 E6.02 TYPICAL ROOF WP GFI RECEPTACLE DETAIL
N.T.S.



STAGE TRACK LIGHTING CONTROLS



STAGE CONTROL STATION



CAFETORIUM CONTROL STATION

LIGHTING CONTROL SYSTEM NOTES - CAFETORIUM

SYSTEM SHALL HAVE THE FOLLOWING COMPONENTS:

- CONTROL STATION - WITH ENGRAVED BUTTONS TO CLEARLY INDICATE SWITCH FUNCTIONS
- VACANCY SENSOR & DAYLIGHT SENSOR
- CONTROL MODULE - MOUNTED ABOVE CEILING - ONE CONTROLLER PER CLASSROOM
- ALL NECESSARY CABLING FOR A COMPLETE AND OPERATING SYSTEM

SEQUENCE OF OPERATION

GENERAL LIGHTING MODE - (MAINTAIN 30 FOOT CANDLES AT 30" AFF)

UPON ENTERING THE SPACE THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "GENERAL LIGHTING" BUTTON AT ONE OF THE CONTROL STATIONS. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ZONE 2 thru ZONE 4 ARE ALL ON
- ZONE 4 OFF

WHEN THE DAYLIGHT SENSOR, IN THE GENERAL LIGHTING MODE, DETECTS THAT ADEQUATE NATURAL LIGHT IS ENTERING THE SPACE, THE SYSTEM SHALL DIM THE DESIGNATED FIXTURE TO MAINTAIN THE PRESET ILLUMINATION LEVEL.

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

PERFORMANCE MODE

THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "AV LIGHTING" BUTTON AT THE TEACHER CONTROL STATION. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ZONE 1 OFF
- ZONE 2 AND ZONE 4 ALL DIMMED TO 20 FOOT CANDLES
- ZONE 5 OFF

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

THE DAYLIGHT SENSOR SHALL BE DEACITVATED WHEN THE SYSTEM IS IN THIS MODE

PRESENTATION MODE -

THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "AV LIGHTING" BUTTON AT THE TEACHER CONTROL STATION. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ZONE 1 OFF
- ZONE 2 AND ZONE 4 ALL DIMMED TO 10 FOOT CANDLES
- ZONE 5 OFF

THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

THE DAYLIGHT SENSOR SHALL BE DEACITVATED WHEN THE SYSTEM IS IN THIS MODE

50% MODE

UPON ENTERING THE SPACE THE OCCUPANT WILL BE ABLE TO MANUALLY TURN ON THE LIGHT FIXTURE BY PRESSING THE "GENERAL LIGHTING" BUTTON AT ONE OF THE CONTROL STATIONS. THE SYSTEM WILL THEN TURN ON THE LIGHT FIXTURES. THE LIGHT FIXTURES WILL REMAIN 'ON' UNTIL THE OCCUPANT LEAVES THE SPACE AND THE VACANCY SENSOR NO LONGER DETECTS THAT THE SPACE IS OCCUPIED, OR UNTIL THE OCCUPANT SELECTS A DIFFERENT LIGHTING MODE.

- ONE 1 thru ZONE 4 DIMMED TO 50% OUTPUT
- ZONE 5 OFF

WHEN THE DAYLIGHT SENSOR, IN THE GENERAL LIGHTING MODE, DETECTS THAT ADEQUATE NATURAL LIGHT IS ENTERING THE SPACE, THE SYSTEM SHALL DIM THE DESIGNATED FIXTURE TO MAINTAIN THE PRESET ILLUMINATION LEVEL.

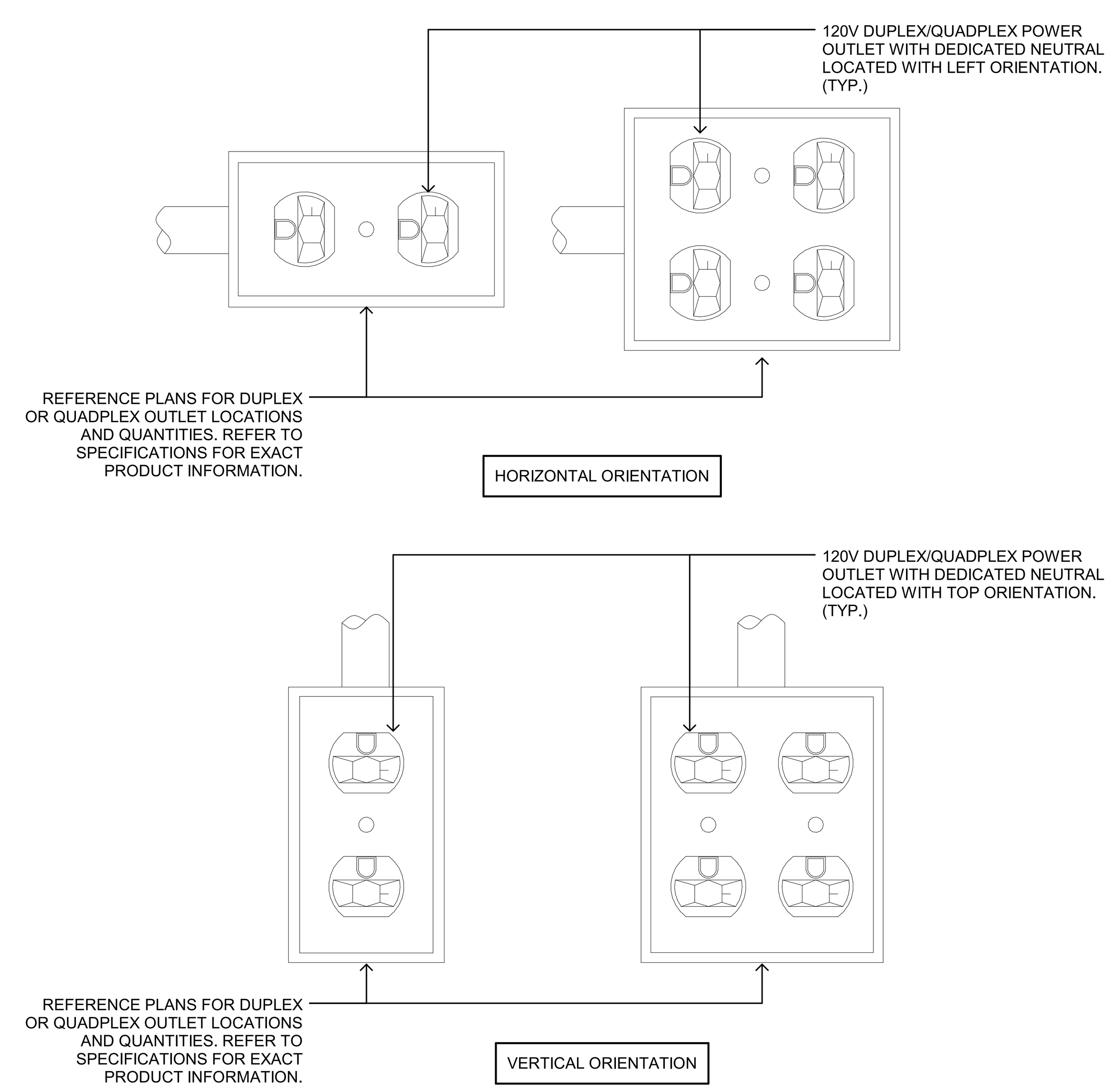
THE SYSTEM SHALL TURN ALL LIGHT FIXTURES 'OFF' WHEN THE VACANCY SENSOR DETECTS THAT THE SPACE IS UNOCCUPIED.

GENERAL NOTES

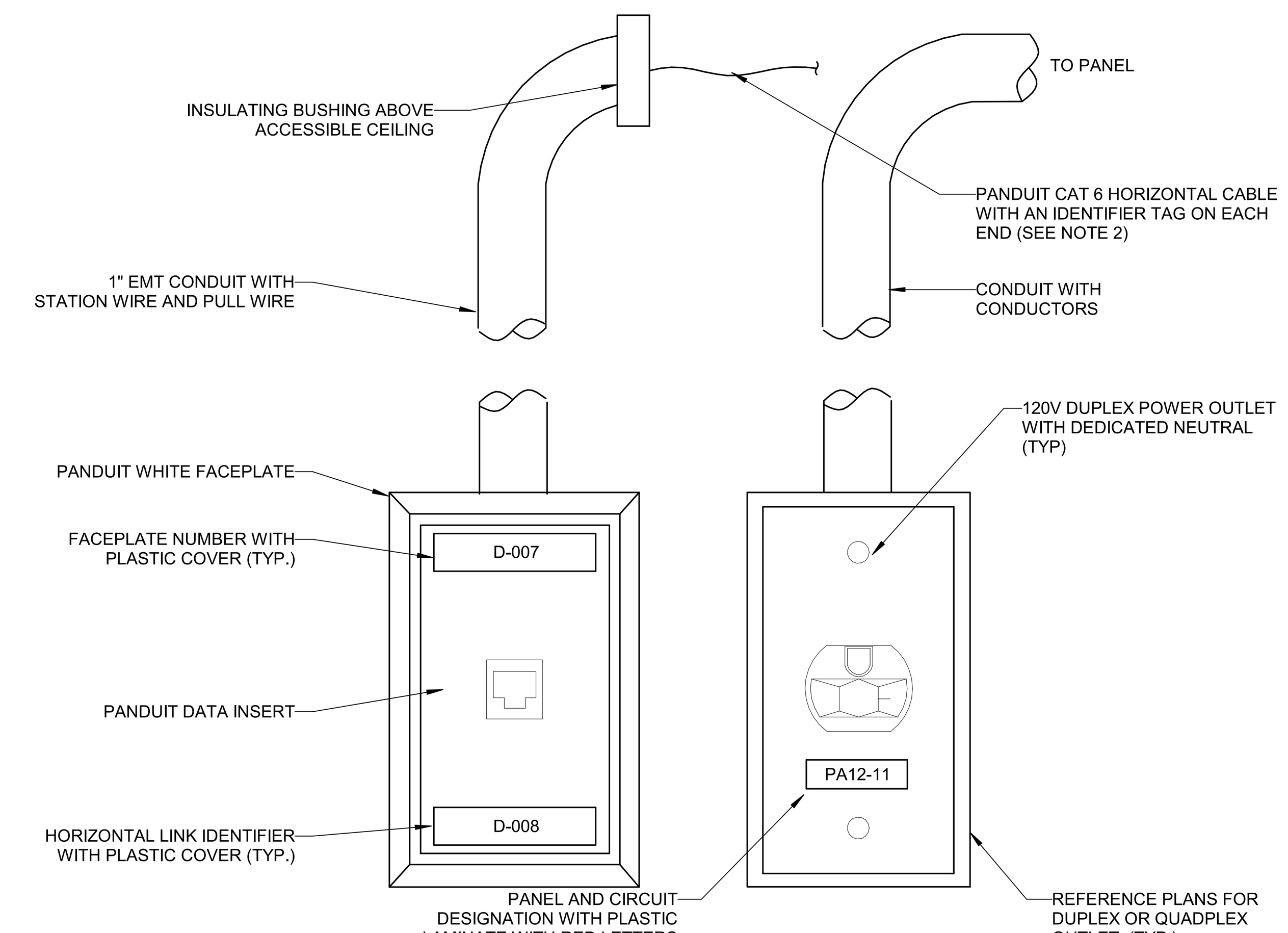
- ALL SYSTEM SENSORS SHALL BE INSTALLED AND LOCATED AS DIRECTED BY SYSTEM MANUFACTURER.
- PROVIDE SENSOR QUANTITIES AS REQUIRED FOR PROPER COVERAGE
- PROVIDE FULL SYSTEM COMMISSIONING INCLUDING OWNER TRAINING

REFER TO SPECIFICATIONS FOR ACCEPTABLE LIGHTING CONTROL SYSTEMS.

7 E6.02 LIGHTING CONTROL SYSTEM NOTES - CAFETORIUM
N.T.S.



8 E6.02 TYPICAL RECEPTACLE ORIENTATION DETAIL
N.T.S.



NOTES:
1. PROVIDE CONNECTION PLUGS AT EACH END OF THE CABLE RUNS AS REQUIRED FOR EQUIPMENT INPUT. PROVIDE COLOR COORDINATION AS REQUIRED TO MATCH JACK COLOR.
2. PROVIDE TWO PATCH CORDS FOR EACH CAT 6 HORIZONTAL RUN. (1) 3' AND (1) 7' PANDUIT #UTPSPXX AND #UTPSP7XX.
3. SEE ALSO "DATA JACK DETAIL" AND "RECEPTACLE DETAIL."

9 E6.02 TYPICAL PRINTER, COPIER, AND TV POWER AND DATA OUTLET DETAIL
N.T.S.

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Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No.
Drawn By: MH	E6.02
Date: 07.15.2026	

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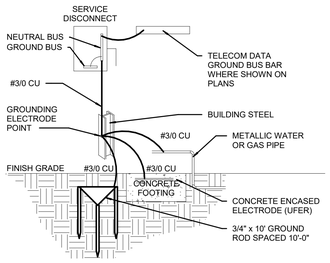
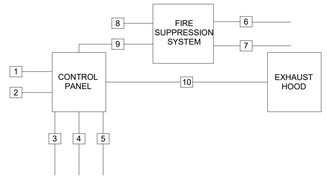


SERVICE ENTRANCE GROUNDING DETAIL NOTES:
1. AT THE CONTRACTOR'S OPTION, ANY ONE OF THE THREE ALLOWED ELECTRODE SYSTEMS SHOWN MAY BE USED AS THE MAIN GROUNDING ELECTRODE POINT (GROUND RODS, UFER, OR BUILDING STEEL) WITH ALL OTHER ELECTRODES BONDED TO IT. THE EXAMPLE SHOWN USES BUILDING STEEL AS THE MAIN ELECTRODE POINT.
2. THE GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.66. REFER TO FEEDER SCHEDULE.

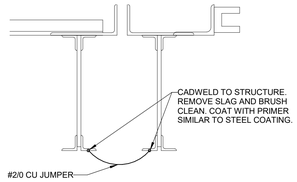
1 E6.03 — SERVICE ENTRANCE GROUNDING DETAIL
NTS



NOTES BY SYMBOL	
1	INPUT 120V FOR CONTROL SIGNALS
2	INPUT 120V FOR HOOD LIGHTS
3	OUTPUT FOR BUILDING FIRE ALARM NOTIFICATION
4	OUTPUT 120V FOR EXHAUST FAN CONTROL
5	OUTPUT 120V FOR AHU SUPPLY CONTROL
6	OUTPUT 120V FOR ELECTRICAL SHUNT TRIP CONTROL
7	OUTPUT 120V FOR GAS SHUT OFF CONTROL
8	INPUT 120V FOR CONTROL SIGNALS
9	TIE 2-WIRE FOR ANSUL SYSTEM NOTIFICATION
10	HOOD LIGHTS

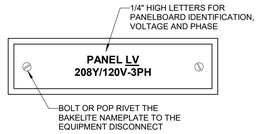
NOTE:
CONTRACTOR SHALL VERIFY WITH HOOD SUPPLIER ALL CONTROL VOLTAGES AND CONTROL WIRE SIZE AND TYPE. CONTRACTOR SHALL PROVIDE COMPATIBLE COIL VOLTAGES TO COORDINATE WITH SIGNALS PROVIDED BY HOOD MANUFACTURER.

2 E6.03 — KITCHEN HOOD SUPPRESSION
N.T.S.



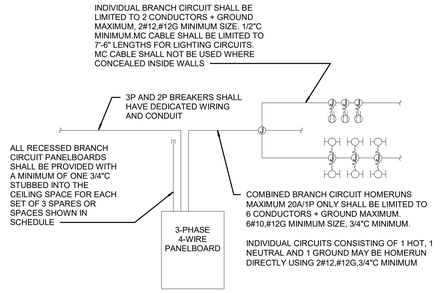
NOTES:
1. PROVIDE AT ALL EXPANSION JOINTS TO MAINTAIN CONTINUITY OF STEEL ELECTRICAL BOND.
2. INSTALL ALL GROUNDING IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

3 E6.03 — GROUNDING AT EXPANSION JOINT DETAIL
N.T.S.

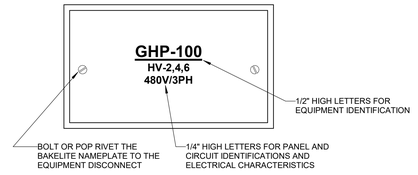


NOTE:
1. ALL NAMEPLATES SHALL BE CUSTOM ENGRAVED WHITE LETTERING ON BLACK PHENOLIC PLASTIC (BAKELITE).

4 E6.03 — TYPICAL PANELBOARD NAMEPLATE DETAIL
12" = 1'-0"



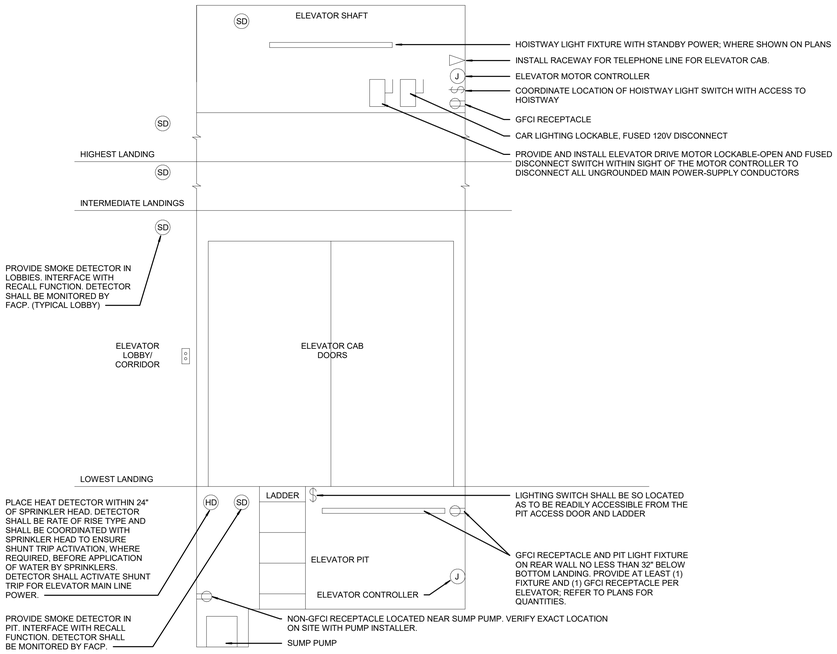
5 E6.03 — BRANCH CIRCUITING DETAIL
NTS



NOTE:
1. ALL NAMEPLATES SHALL BE CUSTOM ENGRAVED WHITE LETTERING ON BLACK PHENOLIC PLASTIC (BAKELITE).

6 E6.03 — TYPICAL EQUIPMENT DISCONNECT NAMEPLATE DETAIL
12" = 1'-0"

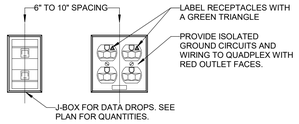
ELEVATOR DETAIL - MACHINE ROOM LESS (MRL)



TYPICAL ELEVATOR NOTES

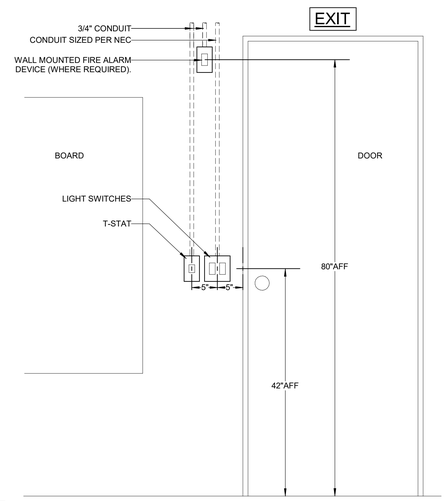
1. PROVIDE A LOCKABLE FUSED DISCONNECT FOR ELEVATOR MAIN LINE POWER. DISCONNECT SHALL HAVE AUXILIARY CONTACT TO SIGNAL ELEVATOR LOWERING DEVICE.
2. NO CONDUITS, BOXES, PIPING, DEVICES OR EQUIPMENT SHALL BE PLACED IN THE ELEVATOR SHAFT, PIT, EQUIPMENT ROOM OR PENTHOUSE EXCEPT FOR ITEMS SPECIFICALLY SERVING THE ELEVATOR SHAFT, PIT, EQUIPMENT ROOM OR PENTHOUSE. ONLY SUCH ELECTRICAL WIRING, RACEWAYS AND CABLES USED DIRECTLY IN CONNECTION WITH THE ELEVATOR SHALL BE PERMITTED INSIDE THE HOISTWAY, MACHINE ROOMS, CONTROL ROOMS, MACHINERY SPACES AND CONTROL SPACES.
3. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH ELEVATOR VENDOR.
4. ELEVATOR DISCONNECTS AND FEEDER BREAKERS SHALL INCLUDE AUXILIARY CONTACTS TO INDICATE IF BREAKER IS OPEN OR CLOSED.

8 E6.03 — ELEVATOR DETAIL
NTS

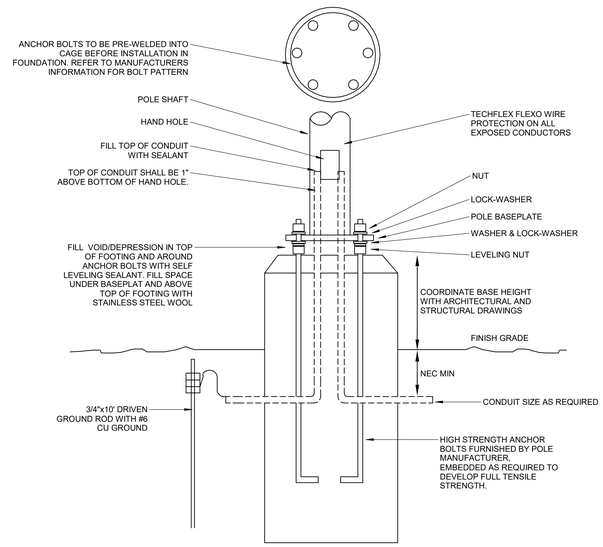


NOTES:
1. THE INTENT IS TO LOCATE THE POWER RECEPTACLE ADJACENT TO THE DATA J-BOX WITH A MINIMUM SEPARATION OF 6".
2. IF GFCI PROTECTION IS REQUIRED, PROVIDE GFCI CIRCUIT BREAKER AND LABEL RECEPTACLE AS GFCI PROTECTED.

7 E6.03 — TYPICAL COMPUTER WORKSTATION OUTLET LAYOUT
12" = 1'-0"



9 E6.03 — TYPICAL ROUGH-IN DETAIL
N.T.S.



NOTE:
1. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR ADDITIONAL FOOTING INFORMATION.

10 E6.03 — TYPICAL AREA SITE LIGHTING POLE FOOTING DETAIL
N.T.S.

Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL ISD TOMBALL, TEXAS

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ELECTRICAL DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	E6.03
Drawn By: MH	
Date: 07.15.2026	

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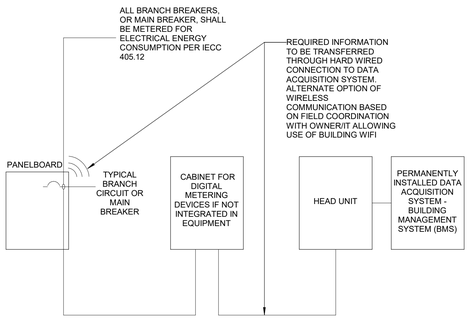
ENERGY USE CATEGORIES	
LOAD	CIRCUIT PREFIX
TOTAL HVAC SYSTEM	{H}
INTERIOR LIGHTING	{L}
EXTERIOR LIGHTING	{E}
PLUG LOADS	{R}
PROCESS LOADS	{P}
BUILDING OPERATIONS AND OTHER MISCELLANEOUS LOADS	NO IDENTIFIER

NOTES:
LOAD CLASSIFICATION IS DEFINED BY "(xx)" IN PANEL SCHEDULE NOTES USING THE ABOVE NAMING CONVENTION. REFER TO PANEL SCHEDULES FOR INDIVIDUAL CIRCUIT CLASSIFICATION.

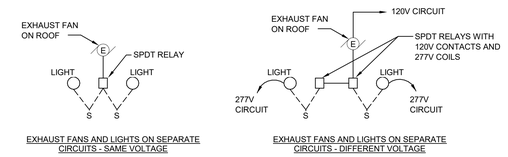


PROVIDE DATA AQCUISITION SYSTEM WITH THE FOLLOWING CAPABILITIES:

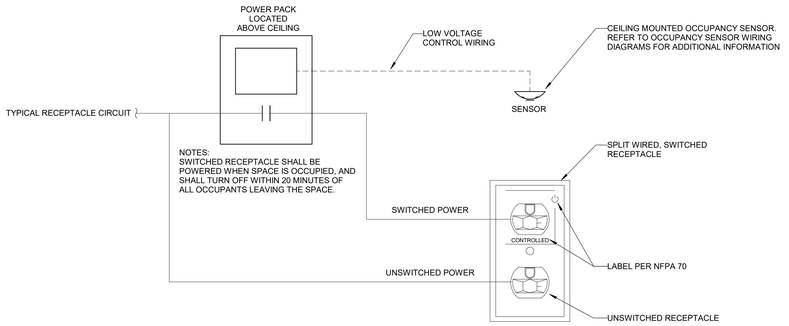
1. ABILIITY TO TOTAL ALL LOADS FOR A GIVEN CATEGORY FROM MULTIPLE METERS
2. METERING SYSTEM AND EQUIPMENT SHALL HAVE CAPABILITY TO PROVIDE AT LEAST HOURLY DATA THAT IS FULLY INTEGRATED INTO THE DATA ACQUISITION SYSTEM AND GRAPHICAL ENERGY REPORT.
3. SHALL HAVE THE CAPABILITY TO STORE THE DATA FROM THE REQUIRED METERS AND OTHER SENSING DEVICES FOR A MINIMUM OF 36 MONTHS.
4. SHALL HAVE THE CAPABILITY TO STORE REAL-TIME ENERGY CONSUMPTION DATA AND PROVIDE HOURLY, DAILY, MONTHLY, AND YEARLY LOGGED DATA FOR EACH END-USE CATEGORY.
5. A PERMANENT AND READILY ACCESSIBLE REPORTING MECHANISM SHALL BE PROVIDED IN THE BUILDING THAT IS ACCESSIBLE BY BUILDING OPERATION AND MANAGEMENT PERSONNEL.
6. SHALL HAVE CAPABILITY TO GRAPHICALLY PROVIDE THE ENERGY CONSUMPTION FOR EACH END-USE CATEGORY REQUIRED AT LEAST EVERY HOUR, DAY, MONTH, AND YEAR FOR THE PREVIOUS 36 MONTHS. CONTRACTOR SHALL COORDINATE WITH OWNER'S METERING AND DATA ACQUISITION VENDOR AND PROVIDE ALL NECESSARY PROTOCOL INTERFACE MODULES.
7. CONTRACTOR SHALL COORDINATE POINTS ADDRESS WITH BUILDING BMS SYSTEM AND ADJUST AS NECESSARY TO SUPPORT PROGRAMING OF FULLY INTEGRATED SYSTEM WITH METERING EQUIPMENT. SUBJECT TO OWNER APPROVAL, CONTRACTOR MAY PROPOSE ALTERNATES TO ANY METERING SYSTEM, UP TO AND INCLUDING ELECTRICAL GEAR WITH INTEGRATED METERING DEVICES FROM GEAR PROVIDERS SUCH AS EATON AND SQUARE D.

NOTES:
1. CONTRACTOR TO INCLUDE ALL METER COMPONENTS AND COMMUNICATION WIRING TO SET UP ELECTRICAL METERS AS A BMS SUBSYSTEM. QUANTITY OF CURRENT TRANSFORMERS NEEDED SHALL BE DETERMINED BE EACH PANEL'S ASSOCIATED SCHEDULE.
2. CONTRACTOR TO VERIFY THAT COMMUNICATION CABLING DOES NOT EXCEED MANUFACTURER'S MAXIMUM ALLOWABLE DISTANCE AMONG METER COMPONENTS.
3. CONTRACTOR TO COORDINATE BILL OF MATERIALS AND INSTALLATION REQUIREMENTS WITH METER SUPPLIER.
4. DATA COLLECTION AND STORAGE REQUIREMENTS PER IECC 2021.
5. CONTRACTOR SHALL PROVIDE ALLOWANCE FOR A MINIMUM OF TWO (2) COORDINATION MEETING WITH OWNER TO DETERMINE COMPATIBILITY AND INTEGRATION OF IECC REQUIRED ENERGY MONITORING INTO OWNER'S ENERGY MANAGEMENT SYSTEM.

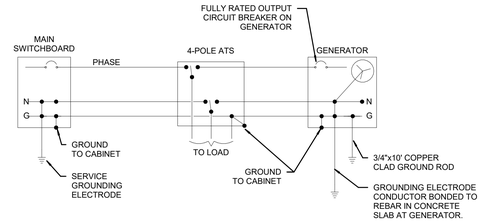
1 E6.04 ENERGY MONITORING DETAIL PER IECC C405.12
NTS



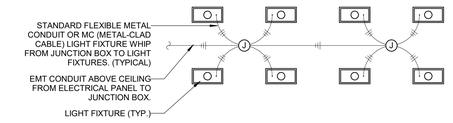
2 E6.04 TYPICAL EXHAUST FAN & LIGHT INTERLOCK DETAIL
N.T.S.



3 E6.04 PLUG LOAD CONTROL DETAIL
N.T.S.

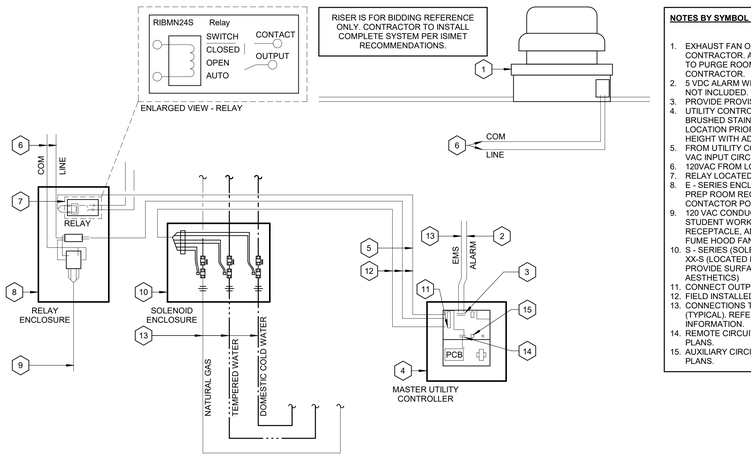


4 E6.04 ATS GROUNDING DETAIL 4-POLE
N.T.S.



NOTES:
1. MAXIMUM ONE (1) LIGHT FIXTURE WHIP PER LIGHT FIXTURE - DAISY-CHAINING/ THROUGH-WIRING OF FIXTURES NOT ALLOWED.
2. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

5 E6.04 TYPICAL LIGHT FIXTURE WIRING DETAIL
N.T.S.



NOTES BY SYMBOL (THIS DETAIL ONLY):

1. EXHAUST FAN ON ROOF (TYPICAL) BY MECHANICAL CONTRACTOR. ACTIVATE EXHAUST FAN ON PANIC IN ORDER TO PURGE ROOM. COORDINATE WITH MECHANICAL CONTRACTOR.
2. 5 VDC ALARM WIRING TO ALARM MONITORING PANEL. WIRING NOT INCLUDED. FUNCTIONALITY ONLY.
3. PROVIDE PROVISIONS FOR FUTURE EMS MONITORING.
4. UTILITY CONTROLLER WITH RECESSED ENCLOSURE WITH BRUSHED STAINLESS STEEL DOOR AND TRIM. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH ADA REQUIREMENTS.
5. FROM UTILITY CONTROLLER TERMINAL 1-A POSTS 1 & 2, 24 VAC INPUT CIRCUIT.
6. 120VAC FROM LOAD CENTER.
7. RELAY LOCATED IN E-SERIES ENCLOSURE ABOVE CEILING.
8. E - SERIES ENCLOSURE MODEL # E-11X-S-M-EM (LOCATED PREP ROOM RECESSED IN WALL). VERIFY QUANTITY OF CONTACTOR POLES.
9. 120 VAC CONDUCTORS TO ALL CONVENIENCE OUTLETS, STUDENT WORK STATIONS OUTLET,FUME HOOD RECEPTACLE, AND CIRCULATION PUMP. DO NOT CONNECT TO FUME HOOD FAN.
10. S - SERIES (SOLENOID) ENCLOSURE MODEL # S-1133X-24VAC-XX-S (LOCATED IN PREP ROOM SEMI-RECESSED IN WALL, PROVIDE SURFACE MOUNT BOX TO ACCOMMODATE AESTHETICS)
11. CONNECT OUTPUT WIRING TO TERMINAL 2.
12. FIELD INSTALLED 18 AWG TO EACH SOLENOID AND RELAY.
13. CONNECTIONS TO SINK FAUCETS AND GAS TURRETS (TYPICAL), REFER TO PLUMBING PLANS FOR MORE INFORMATION.
14. REMOTE CIRCUIT TERMINAL 1-A; WHERE INDICATED ON PLANS.
15. AUXILIARY CIRCUIT TERMINAL 1-A; WHERE INDICATED ON PLANS.

MASTER UTILITY CONTROLLER NOTES

1. ALL WIRING BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
2. PROVIDE SEPARATE CONDUIT SYSTEMS FOR LOW VOLTAGE AND LINE VOLTAGE WIRING. DO NOT INSTALL LOW VOLTAGE AND LINE VOLTAGE CONDUCTORS IN THE SAME CONDUIT.

SEQUENCE OF OPERATION FOR LABORATORY UTILITY CONTROLLER:

1. "NORMAL" MODE OPERATION, THE UTILITY CONTROLLER ALLOWS THE SOLENOID VALVES FOR THE GAS & WATER TO BE OPEN, ALL 110V LAB RECEPTACLES ARE ENERGIZED, AND CIRCULATION PUMP SERVING LAB IS ENERGIZED. IN THIS MODE INSTRUCTOR HAS INDEPENDENT CONTROL OF GAS, WATER, 110V LAB RECEPTACLE AND ROOM PURGE FAN, THROUGH THE PANEL MOUNTED ROCKER SWITCHES. IN THE EVENT THE GAS, WATER OR 110V LAB RECEPTACLES ARE SWITCHED OFF, AN INSTRUCTOR KEYED RESET WILL BE REQUIRED TO RE-ENERGIZE THE UTILITIES.
2. "PANIC" MODE OPERATION, THE UTILITY CONTROLLER CLOSES THE GAS & WATER SOLENOID VALVES, OPENS THE 110V CONTACTORS FOR ALL THE 110V LAB RECEPTACLES AND CIRCULATION PUMP, AND CLOSES THE CONTACTOR FOR THE ROOM PURGE FAN, ALLOWING THE ROOM'S AIR TO BE EXHAUSTED. THE SYSTEM WILL STAY IN THIS STATE UNTIL THE INSTRUCTOR RESETS THE SYSTEM WITH A KEYED RESET.

UPON ACTIVATION:

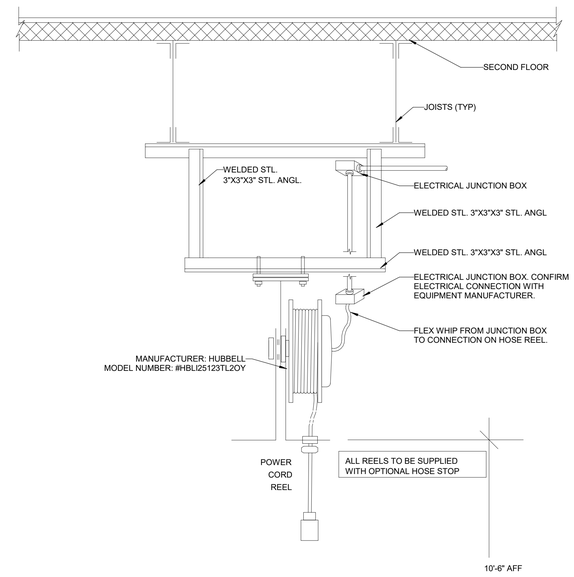
SHUT OFF THE FOLLOWING:

- ALL LAB STATIONS (POWER, WATER, GAS)
- TEACHER'S WORKSTATION DISPLAY (POWER)
- CIRCULATION PUMP

DO NOT SHUT OFF THE FOLLOWING:

1. POWER / WATER TO EYEWASH STATION
2. POWER TO GOGGLES CABINET
3. LIGHTS
4. MECHANICAL UNITS
5. REFRIGERATORS
6. ICE MACHINES
7. DISHWASHERS
8. SIDE CONVENIENCE RECEPTACLES
9. GENERAL POWER RECEPTACLES ABOVE COUNTER, NOT AT A STUDENT LAB STATION

6 E6.04 MASTER UTILITY CONTROLLER DETAIL
N.T.S.



7 E6.04 POWER DROP CORD REEL DETAIL
N.T.S.

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL ISD
TOMBALL, TEXAS

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ELECTRICAL DETAILS

VOLUME 2

Job No.	Sheet No.
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GENERAL ABBREVIATIONS

--	NOT APPLICABLE
@	AT
3DC	3D CONTROLLER
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
C	CONDUIT
CAT	CATEGORY CABLE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DC	DIRECT CURRENT
DC	DOWNSTAGE CENTER
DEG	DEGREES
DEMO	DEMOLITION
DFP	DIRECTOR'S FLOOR POCKET
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSTAGE
DSL	DOWNSTAGE LEFT
DSR	DOWNSTAGE RIGHT
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
ESW	ETHERNET SWITCH
EXIST	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FINISHED OPENING
FOH	FRONT OF HOUSE
FPB	FIBER OPTIC PATCHBAY
FPM	FEET PER MINUTE
FT	FOOT, FEET
FV	FIELD VERIFY
GND	GROUND
GA	GAUGE
H	HEIGHT
HL	HOUSE LEFT
HMP	HOUSE MANAGER POSITION
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HOUSE RIGHT
HZ	HERTZ
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
JBD	JUNCTION BOX - DATA
JP	JUNCTION BOX - SYSTEM POWER
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT/RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LF	LINEAR FEET
LTG	LIGHTING
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PRIMARY
P/O	PART OF
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
PROC	PROCESSOR
PRH	PROJECT RECEPTACLE HEIGHT
PRX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSF	POUNDS PER SQUARE FOOT
PSH	PROJECT SWITCH HEIGHT
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
S	SURFACE, SECONDARY
SCS	STRUCTURED CABLING SYSTEM
SQFT	SQUARE FEET
SIM	SIMILAR
SL	STAGE LEFT
SMFO	SINGLE MODE FIBER OPTIC CABLE
SMP	STAGE MANAGER POSITION
SPEC	SPECIFICATION
SQ	SQUARE
SR	STAGE RIGHT
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SUSP	SUSPEND
TBD	TO BE DETERMINED
THRU	THROUGH
TYP	TYPICAL
UC	UPSTAGE CENTER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UPSTAGE
USL	UPSTAGE LEFT
USR	UPSTAGE RIGHT
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

STRUCTURED CABLING ABBREVIATIONS

DAS	DISTRIBUTED ANTENNA SYSTEM
ER	EQUIPMENT ROOM
TBB	TELECOMMUNICATIONS BONDING BACKBONE
PBB	PRIMARY BONDING BUSBAR
SBB	SECONDARY BONDING BUSBAR
TR	TELECOMMUNICATIONS ROOM

CABLE TYPE LEGEND

	TYPE	DESCRIPTION	NOTES
SECURITY	A	18AWG, 6 CONDUCTOR, STRANDED, OVERALL SHIELD	REFERENCE SPECIFICATION 28 0513
	B	18AWG, 4 CONDUCTOR, STRANDED, UNSHIELDED	REFERENCE SPECIFICATION 28 0513
	C	18AWG, 2 CONDUCTOR, STRANDED, UNSHIELDED	REFERENCE SPECIFICATION 28 0513
	E	22AWG, 4 CONDUCTOR, STRANDED, UNSHIELDED	REFERENCE SPECIFICATION 28 0513
	F	COMPOSITE ACCESS CONTROLLED DOOR CABLE	REFERENCE SPECIFICATION 28 0513
STRUCTURED CABLING			
	M	CATEGORY 6, BLUE - DATA	REFERENCE SPECIFICATION 27 1000
	N	CATEGORY 6, GREEN - SECURITY CAMERAS	REFERENCE SPECIFICATION 27 1000
	R	CATEGORY 6A, YELLOW - APs	REFERENCE SPECIFICATION 27 1000

NOTES:
1. PROVIDE CABLE RATED FOR ENVIRONMENTAL AIR TYPE PLENUM WHERE REQUIRED.
2. PROVIDE CABLE RATED FOR WET APPLICATIONS FOR USE IN PATHWAYS BELOW GRADE AND FOR USE IN PATHWAYS IN SLAB ON GRADE.

CAMERA TYPES

TYPE	DESCRIPTION
IN	INFRASTRUCTURE ONLY CAMERA

NOTE:

ROUGH-IN BOX SCHEDULE

TYPE 10

RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED (INDOOR): 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE.

SURFACE MOUNTED (OUTDOOR / WEATHER PROOF): 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 11

RECESSED: 5" SQUARE BOX. 2 7/8" DEEP. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED (INDOOR): 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE.

SURFACE MOUNTED (OUTDOOR / WEATHER PROOF): 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 12

RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED (INDOOR): 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE.

SURFACE MOUNTED (OUTDOOR / WEATHER PROOF): 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE A — JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

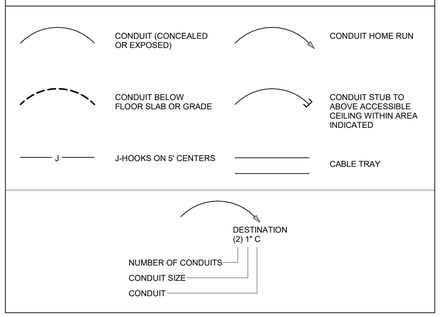
TYPE B — JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE C — JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS

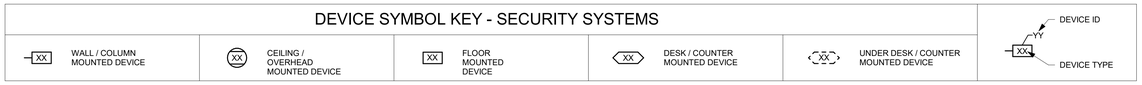
CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY OR OTHER NOTED DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 1 INCH TRADE SIZE.
6. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
7. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
8. MAINTAIN PROPER CONDUIT BEND RADIUS. FOR CONDUIT WITH AN INTERNAL DIAMETER OF 2" OR LESS, MAINTAIN A BEND RADIUS OF AT LEAST SIX (6) TIMES THE INTERNAL CONDUIT DIAMETER. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2", MAINTAIN A BEND RADIUS OF AT LEAST TEN (10) TIMES THE INTERNAL CONDUIT DIAMETER.
9. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
10. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
11. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
12. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
13. REFER TO PULL BOX SIZING TABLE FOR REQUIRED PULL BOX DIMENSIONS.
14. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES WITHOUT FACEPLATES AND PULL BOXES. LABELING SHALL INCLUDE THE CABLE TYPES AND THE APPLICABLE NUMBERING SCHEME FOR EACH CABLE CONTAINED WITHIN THE BOX.
15. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
16. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, AND ELEVATOR CONTROL ROOMS.
17. REGARDLESS OF PATHWAY TYPE, CABLING SHALL BE SUPPORTED AT 5 FEET MAXIMUM INTERVALS UTILIZING INDEPENDENT MOUNTING METHODS IN ACCORDANCE WITH MANUFACTURER INSTALLATION REQUIREMENTS. J-HOOK PATHWAYS SHALL BE ESTABLISHED TO SUPPORT EXPOSED CABLING AND PREVENT PHYSICAL CONTACT OF THE CABLING WITH BUILDING STRUCTURE AND OTHER MECHANICAL AND ELECTRICAL SYSTEMS INCLUDING MECHANICAL AND ELECTRICAL SYSTEMS MOUNTING PRODUCTS.
18. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
19. IF SCS AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
20. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
21. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
22. PROVIDE SPECIFIED FIRE-STOPPING PRODUCTS AT FIRE-RATED WALL AND FLOOR PENETRATIONS IN ORDER TO MAINTAIN THE FIRE RATING OF THE MEMBRANE.
23. PROVIDE THROUGH-WALL ACOUSTICAL PATHWAY PRODUCTS IN ORDER TO MAINTAIN THE ACOUSTIC RATING OF A WALL.

PATHWAY DISTRIBUTION



DEVICE SYMBOL KEY - SECURITY SYSTEMS



SYMBOL LEGEND - SECURITY SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS.
UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			CABLE (QTY) TYPE	DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR			
ACP	ACCESS CONTROL PANEL	--	--	4'-6" AFF TO CENTER OF PANEL	--	--	(1)M	INCLUDES ENCLOSURE, ACCESS CONTROL PANELS, AND ELECTRIC LOCK POWER SUPPLY.	REF DETAIL
CRS	CARD READER SYSTEM	REF DETAIL	REF DETAIL	BUILDING SWITCH HEIGHT	--	--	(1)F	SYSTEM INCLUDES MULTIPLE DEVICES; REF DETAIL AND SPECIFICATIONS.	REF DETAIL
CS	IP CEILING SPEAKER	TYPE 10	--	--	FLUSH IN CEILING	--	(1)M	CEILING MOUNTED IP SPEAKER THAT CONNECTS TO THE VIDEO INTERCOM SYSTEM FOR AUDIBLE ALERTS UPON VIDEO INTERCOM ACTIVATION.	REF DETAIL
DR	DOOR RELEASE	--	--	--	--	--	(1)B	INTERFACE TO THE ACCESS CONTROL SYSTEM TO RELEASE ASSOCIATED DOOR.	REF DETAIL
MVI	MASTER VIDEO OR AUDIO ONLY INTERCOM STATION	--	--	--	--	--	(1)M	DESK OR WALL MOUNTED MASTER INTERCOM THAT CONNECTS TO LOCAL OR POE POWER TO COMMUNICATE WITH INTERCOM DOOR STATIONS.	--
PB	PANIC BUTTON	TYPE 12	1-GANG	BUILDING SWITCH HEIGHT	--	--	(1)B	INCLUDES A PANIC BUTTON.	REF DETAIL
VIC	VIDEO INTERCOM DOOR STATION	CUSTOM	--	4'-6" AFF	--	--	(1)M	INTERCOM THAT PROVIDES AUDIO AND VIDEO TO THE MASTER INTERCOM STATION.	REF DETAIL

LEGEND NOTES - SECURITY SYSTEMS

1 CATEGORY CABLING PROVIDED BY DIVISION 27.

2 PROVIDE QTY. (2) ADDITIONAL 18/6 CABLES FROM ACP TO ACCESS CONTROLLED DOOR LOCATIONS TO AUTO DOOR MOTOR. COORDINATE TERMINATIONS WITH DIVISION 08.

3 REFERENCE SCHEDULES FOR ADDITIONAL INFORMATION.

4 REFERENCE DIVISION 26 FOR ALL ELECTRICAL POWER AND CONDUIT.

5 REFER TO DIVISION 08 7100 FOR DOOR HARDWARE SPECIFICATIONS. COORDINATE ELECTRIC LOCK POWER AND CABLE PATHWAY REQUIREMENTS WITH DIVISION 08 AND DIVISION 26.

DEVICE SYMBOL KEY - VIDEO SURVEILLANCE SYSTEMS



SYMBOL LEGEND - VIDEO SURVEILLANCE SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS.
UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			CABLE (QTY) TYPE	DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR			
IN	CAMERA - INFRASTRUCTURE ONLY	TYPE 12	1-GANG	REF SCHEDULE	REF SCHEDULE	--	(1)N	--	REF DETAIL

LEGEND NOTES - VIDEO SURVEILLANCE SYSTEMS

1 CATEGORY CABLING PROVIDED BY DIVISION 27.

2 REFERENCE SCHEDULES FOR ADDITIONAL INFORMATION.

3 PROVIDE CONDUIT PATHWAYS, BACK BOXES, CABLING, AND FLUSH WALL COVER PLATES FOR SECURITY CAMERAS NOTED AS INFRASTRUCTURE ONLY.

4 SECUIRTY CAMERAS SHALL BE OWNER FURNISHED - CONTRACTOR INSTALLED. COORDINATE WITH OWNER FOR THE PROVISIONING OF SECURITY CAMERAS AND MOUNTING HARDWARE.

5 COORDINATE COMPOSITE FIBER/COPPER CABLE LOCATION WITH DIVISION 27. COMPOSITE FIBER CABLING REQUIRED FOR VIDEO SURVEILLANCE CAMERAS LOCATED ON LIGHT POLES AND AT LOCATIONS EXCEEDING 100 METERS FROM IDF/TELECOM ROOMS.

SYMBOL LEGEND - STRUCTURED CABLING SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS.
UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			CABLE TYPE	DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR			
(#)	COMMUNICATIONS WALL OUTLET	TYPE 10	REF DETAILS	BUILDING OUTLET HEIGHT	--	--	(#)M	--	--
(#)	COMMUNICATIONS FLOOR OUTLET	SEE NOTE 2	--	--	--	COORDINATE WITH ELECTRICAL REQUIREMENTS	(#)M	REF ARCHITECTURAL FOR EXACT LOCATION	--
(#)	COMMUNICATIONS CEILING OUTLET	TYPE 10	REF DETAILS	--	FLUSH IN CEILING (UNLESS IN ACCESSIBLE CEILING)	--	(#)M	--	--
(#) ADM	COMMUNICATIONS WALL OUTLET, CAMPUS INTERCOM ADMINISTATION CONSOLE	REF AV	REF AV	REF AV	--	--	(#)M	--	--
(#) AP	COMMUNICATIONS WALL OUTLET, WIRELESS ACCESS POINT	TYPE 10	REF DETAILS	10'-0" AFF	--	--	(#)R	ACCESS POINT DEVICE TO BE OWNER FUNISHED, CONTRACTOR INSTALLED	--
(#) AP	COMMUNICATIONS CEILING OUTLET, WIRELESS ACCESS POINT	TYPE 10	REF DETAILS	--	FLUSH WITH CEILING (UNLESS IN ACCESSIBLE CEILING)	--	(#)R	ACCESS POINT DEVICE TO BE OWNER FUNISHED, CONTRACTOR INSTALLED	--
(#) ER	COMMUNICATIONS WALL AOUTLET, AV RACK	TYPE 10	2 GANG	PROJECT WALL OUTLET HEIGHT	--	--	(#)M	--	--
(#) FB	FLOOR OUTLET	REF AV	REF AV	--	--	COORDINATE WITH AV AND ELECTRICAL REQUIREMENTS	(#)M	REF ARCHITECTURAL FOR EXACT LOCATION	
HH	HANDHOLE	REF DETAILS	REF DETAILS	--	--	FLUSH WITH GRADE	--	--	REF PLANS
MH	MANHOLE	EXISTING, FIELD VERIFY	EXISTING	--	--	FLUSH WITH GRADE	--	--	REF PLANS
(#) TE1	TELECOM ENCLOSURE - TE1	--	--	SEE DRAWINGS	--	--	--		--
(#) TV	COMMUNICATIONS WALL OUTLET, TELEVISION	TYPE 10	REF DETAILS	COORDINATE WITH ARCHITECT	--	--	(1)M	--	--
(#) WC1	COMMUNICATIONS WALL OUTLET, WALL CLOCK	REF AV	REF AV	REF AV	--	--	(#)M	--	--
(#) WC2	COMMUNICATIONS WALL OUTLET, WALL CLOCK	REF AV	REF AV	REF AV	--	--	(#)M	--	--

LEGEND NOTES - STRUCTURED CABLING SYSTEMS

1 (#) REPRESENTS THE NUMBER OF CABLES FOR THAT LOCATION. IF NO NUMBER SHOWN, PROVIDE (1).

2 PROVIDE NECESSARY ADAPTER, BEZELS, OR MODULES TO ACCOMODATE THE STRUCTURED CABLING SYSTEM WITH THE FLOOR OUTLET SYSTEM. REFERENCE ELECTRICAL DRAWING FOR FLOOR BOX INFORMATION.

3 PROVIDE NECESSARY ADAPTER, BEZELS, OR MODULES TO ACCOMODATE THE STRUCTURED CABLING SYSTEM WITH THE RACEWAY SYSTEM. REFERENCE ELECTRICAL DRAWING FOR RACEWAY INFORMATION.

PULL BOX SIZING

TRADE SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE FOR ADDITIONAL CONDUIT
1	4"	16"	3"	2"
1-1/4	6"	20"	3"	3"
1-1/2	8"	27"	4"	4"
2	8"	36"	4"	5"
2-1/2	10"	42"	5"	6"
3	12"	48"	5"	6"
3-1/2	12"	54"	6"	6"
4	15"	60"	8"	8"

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GENERAL NOTES AND LEGENDS

VOLUME 2

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1 TECHNOLOGY SITE PLAN
1" = 100'-0"

PLAN
N

320 (1) 2" C
321 (1) 2" C. COORDINATE WITH MARQUEE SIGN.
322 EXISTING TELECOMMUICATIONS MANHOLE LOCATION SHOWN FOR REFERENCE. FIELD VERIFY EXACT LOCATION AND CONDITION. EXTEND NEW TELECOMMUNICATIONS PATHWAY INFRASTRUCTURE AND PROVIDE TIE-IN TO EXISTING MANHOLE.
323 (3) 4" C
324 (4) 4" C STUBBED UP IN MDF, REFER TO ENLARGED PLAN, DETAIL 1, SHEET T3.1.
329 STUB AT PROPERTY LINE, CAP CONDUITS.

KEYNOTES

OUTSIDE PLANT STRUCTURED CABLING PATHWAYS GUIDELINES - REFER TO CIVIL FOR OSP PATHWAY ROUTING AND EXACT HAND HOLE PLACEMENT.

1. UTILIZE MIN. SCHEDULE 40 PVC CONDUIT FOR UNDERGROUND INSTALLATIONS IN SIZE AND QTY SHOWN ON DRAWINGS.
2. PVC CONDUIT RUNS SHALL HAVE PVC COATED RIGID STEEL STUB OUTS FROM THE GROUND, INCLUDING THE LAST 90-DEGREE BEND.
3. ELBOWS FOR CONDUIT INSTALLED BELOW GRADE SHALL BE RIGID STEEL CONDUIT WITH TWO COATS OF CORROSION-RESISTANT PAINT.
4. UNDERGROUND CONDUIT SHALL SLOPE AWAY FROM THE BUILDING, DESIGNED TO DRAIN TOWARD A MANHOLE/HANDHOLE TO PREVENT THE ACCUMULATION OF WATER IN THE PATHWAY. DRAIN SLOPE SHALL BE NO LESS THAN 0.125 INCHES PER FOOT.
5. PATHWAYS SHALL MAINTAIN A SEPARATION FROM SUBSURFACE STRUCTURES/UNDERGROUND UTILITIES
   a. CROSSING:IT SHALL BE NO LESS THAN 6 INCHES
   b. PARALLEL TO IT SHALL BE NO LESS THAN 12 INCHES
6. PATHWAYS AT ROAD CROSSING SHALL BE ENCASED IN CONCRETE.
7. BEND RADIUS OF CONDUIT
   a. 6 TIMES FOR 2" OR SMALLER CONDUIT
   b. 10 TIMES FOR GREATER THAN 2" CONDUIT
8. HANDHOLE & MANHOLE SHALL NOT BE UTILIZED TO CHANGE DIRECTION. ALIGN CONDUITS FOR A PATHWAY STRAIGHT THROUGH WITH THE BEND AT EITHER BEFORE OR AFTER THE HANDHOLE/MANHOLE.
9. CONDUITS RUNS SHALL NOT EXCEED 600 CONTINUES FEET. FOR RUNS MORE THAN 600 FEET, PLACE HANDHOLES/MANHOLES AS REQUIRED TO MAINTAIN THE 600 CONTINUOUS FEET REQUIREMENT.
10. FOR RUNS GREATER THAN 180 DEGREE OF DEFLECTION, I.E. (2) 90-DEGREE ELBOWS, PLACE HANDHOLE/MANHOLE IN SECTION OF THE PATHWAY
11. IF CONDUIT RUN REQUIRES A REVERSE BEND (BETWEEN 100 AND 180 DEGREES), PLACE HANDHOLE/MANHOLE AT EACH REVERSE BEND POINT FROM 100 TO 180 DEGREES.
12. DEPTH OF CONDUITS CAN VARY BETWEEN 24 TO 30 INCHES. DEPTHS GREATER THE 30 INCHES WILL BE REQUIRED TO BE ENCASED IN CONCRETE.

GENERAL NOTES

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TECHNOLOGY OVERALL SITE PLAN

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1 T_MASTER FLOOR PLAN_LEVEL 01
1" = 20'-0"



TRUE

PLAN

MASTER FLOOR PLAN - LEVEL 01

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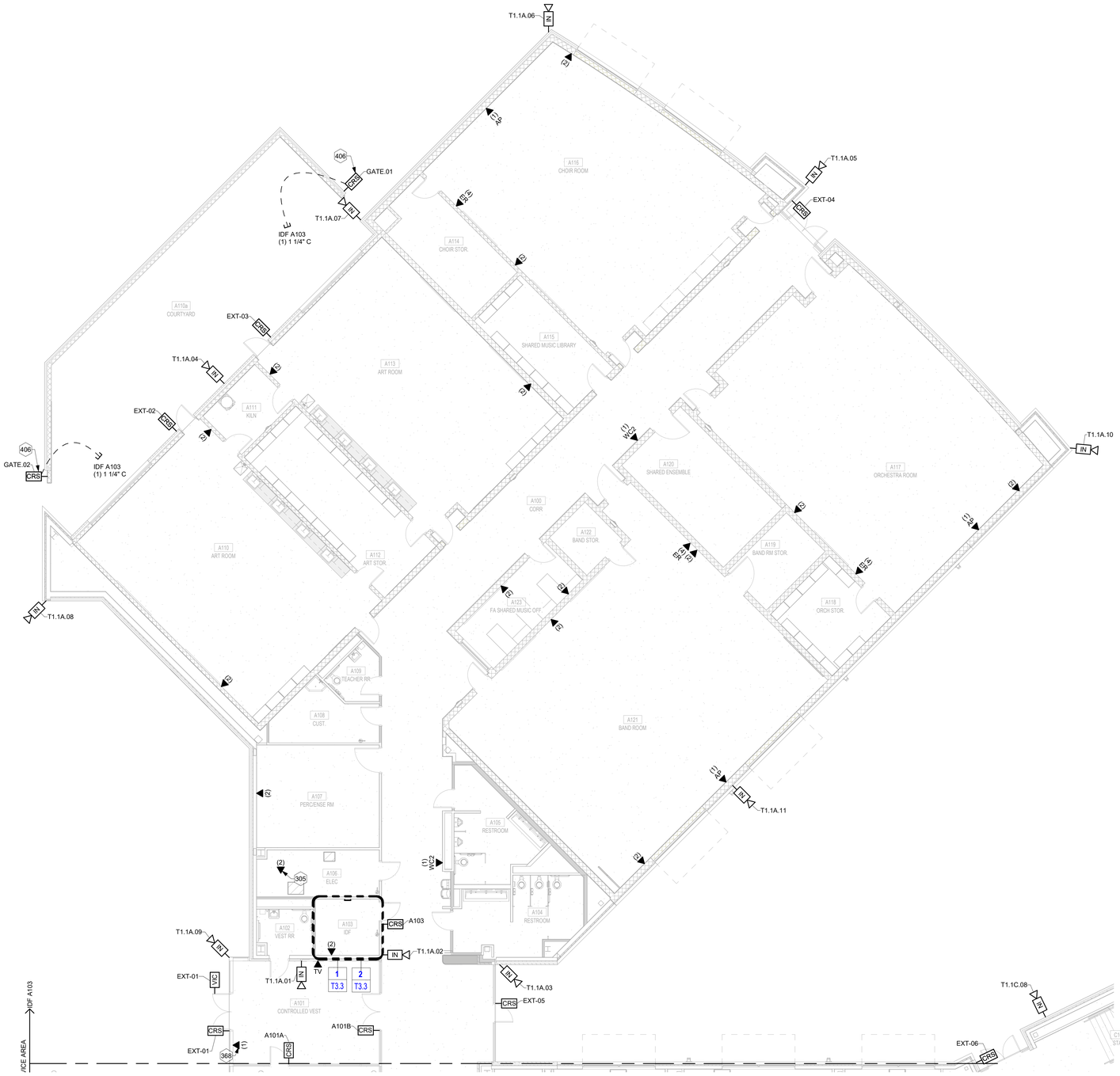

1 T_FLOOR PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

PLAN

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTANUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

368 FOR OFE TIMECLOCK, MOUNT AT 4' AFF. COORDINATE EXACT LOCATION WITH OWNER.

406 INFRASTRUCTURE ONLY FOR FUTURE CARD READER. PROVIDE CONDUIT, BACK BOX, AND FLUSH COVER PLATE.

KEYNOTES

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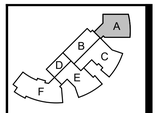

KEY PLAN - LEVEL 1
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FLOOR PLAN - LEVEL 01 - AREA A

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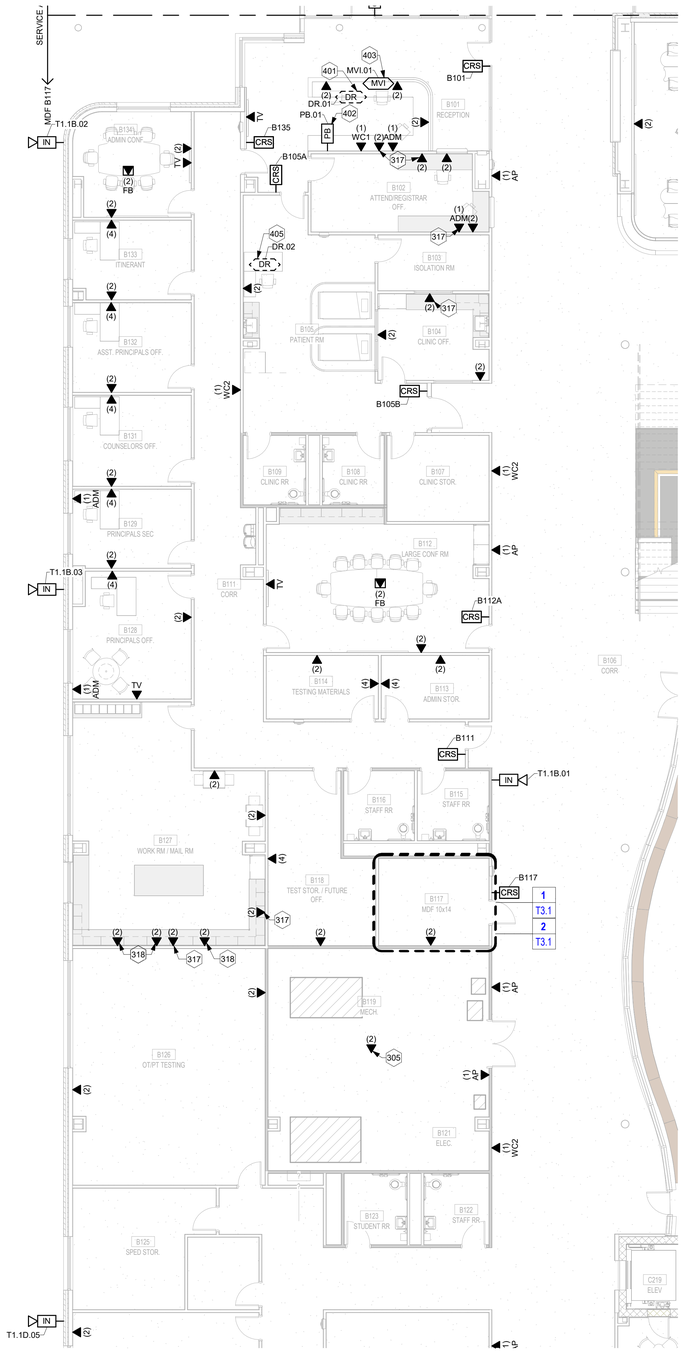

1 T_FLOOR PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

PLAN

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.

318 COORDINATE WITH MILLWORK INSTALLATION.

401 PROVIDE DOOR RELEASE BUTTON TO INTERFACE WITH ACCESS CONTROL SYSTEM TO REMOTELY UNLOCK DOOR OPENINGS A101A, B101, AND B135. PROVIDE (1) DOOR RELEASE BUTTON PER ACCESS CONTROL OPENING.

402 PROVIDE INTERFACE TO ACCESS CONTROL SYSTEM FOR EMERGENCY LOCKDOWN OF ALL ACCESS CONTROLLED OPENINGS.

403 MASTER INTERCOM TO PROVIDE REMOTE UNLOCK CAPABILITIES FOR ALL ACCESS-CONTROLLED DOORS EQUIPPED WITH AN INTERCOM DEVICE.

405 PROVIDE DOOR RELEASE BUTTON TO INTERFACE WITH ACCESS CONTROL SYSTEM TO REMOTELY UNLOCK DOOR OPENING B105B.

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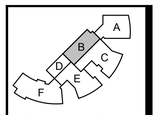

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FLOOR PLAN - LEVEL 01 - AREA B

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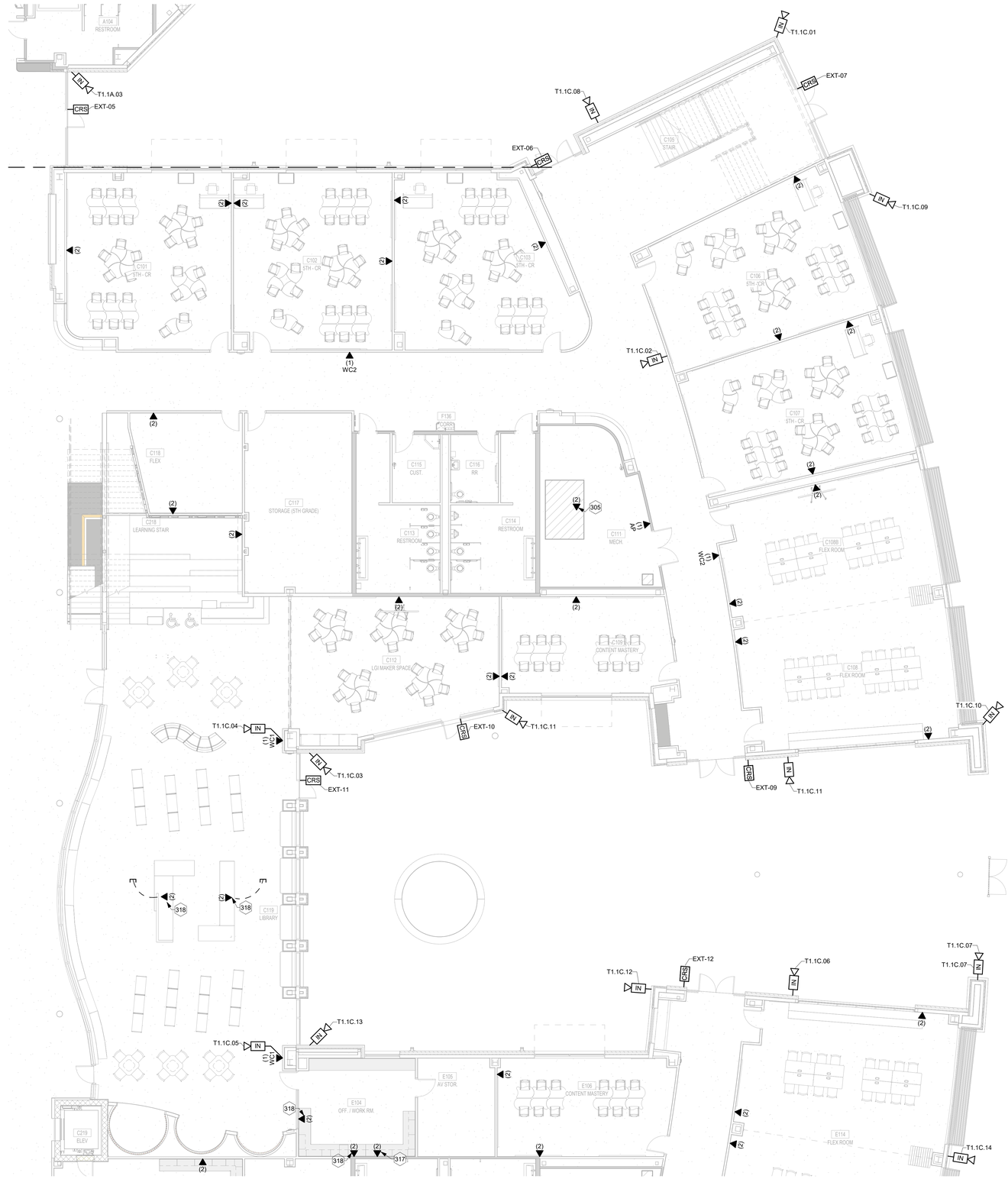

1 T_FLOOR PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

PLAN

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTANUOUS CONDUIT PATHWAY WITHIN THIS SPACE.
317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.
318 COORDINATE WITH MILLWORK INSTALLATION.

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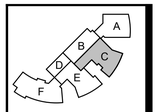

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FLOOR PLAN - LEVEL 01 - AREA C

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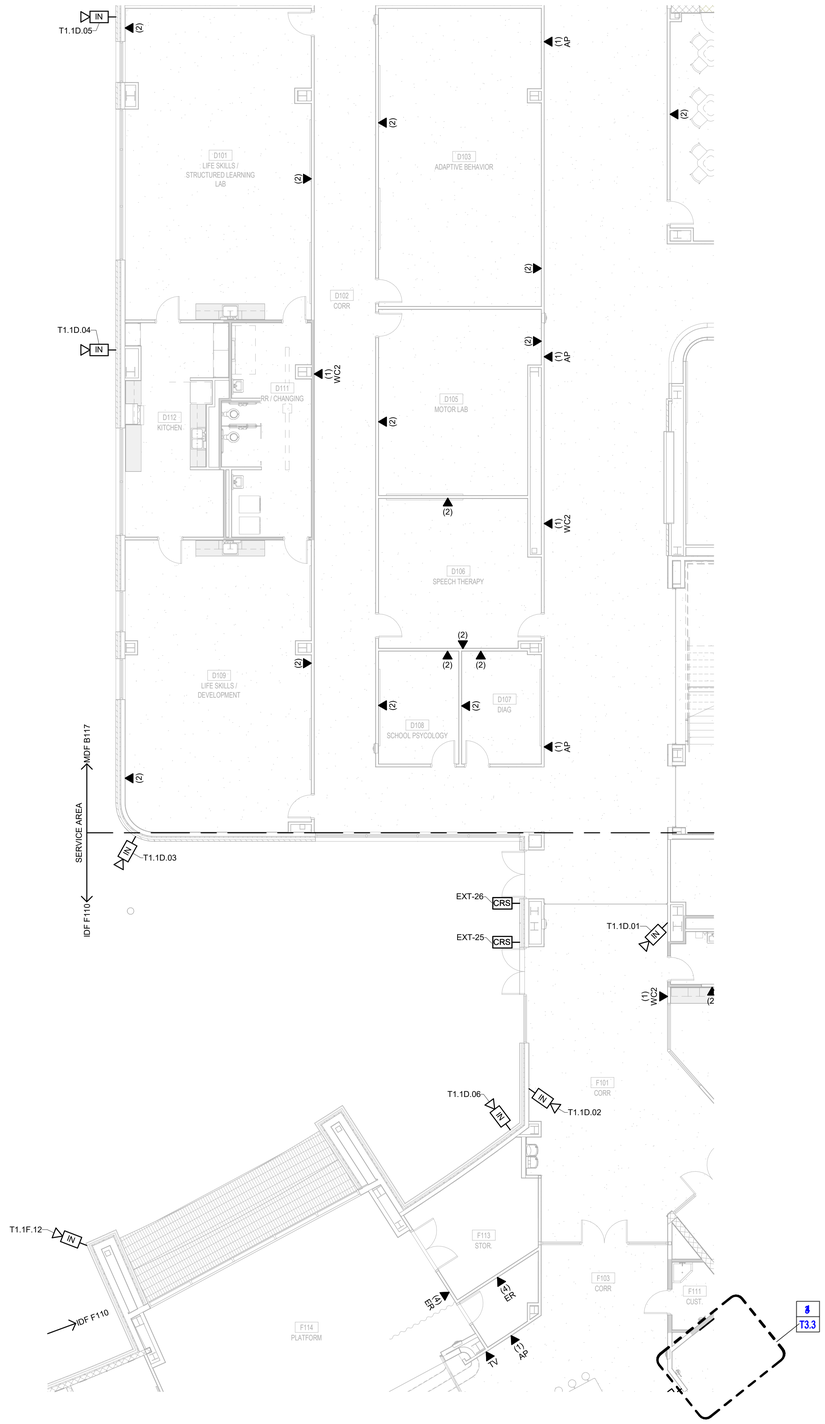

1 T_FLOOR PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN

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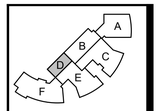

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FLOOR PLAN - LEVEL 01 - AREA D

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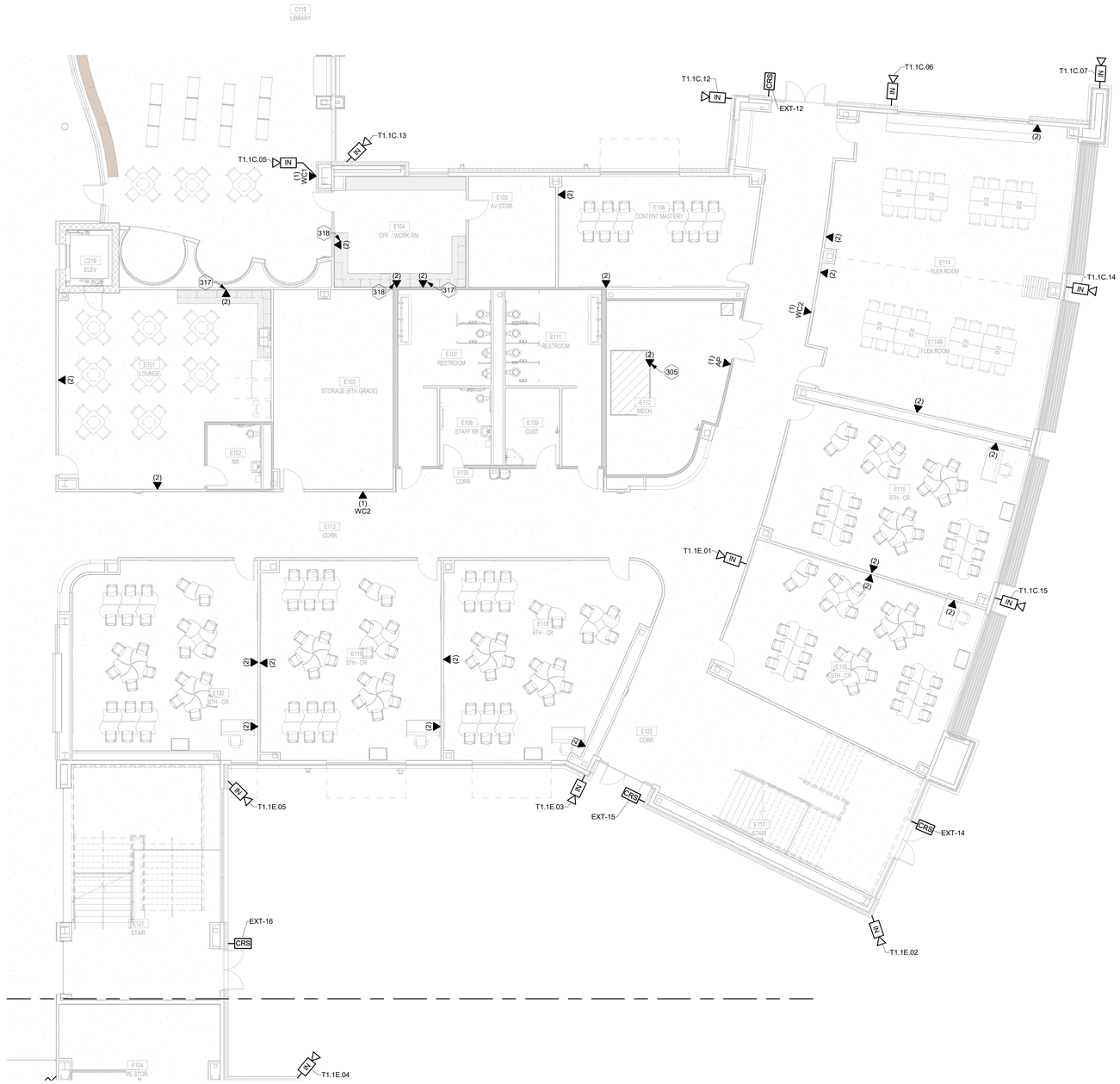

1 T_FLOOR PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

KEYNOTES

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTANUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.

318 COORDINATE WITH MILLWORK INSTALLATION.

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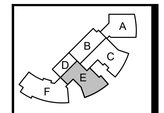

KEY PLAN - LEVEL 1
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FLOOR PLAN - LEVEL 01 - AREA E

VOLUME 2

Job No.	Sheet No.
00802-04-01	T1.1E
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Date: 07.15.26	

PLAN

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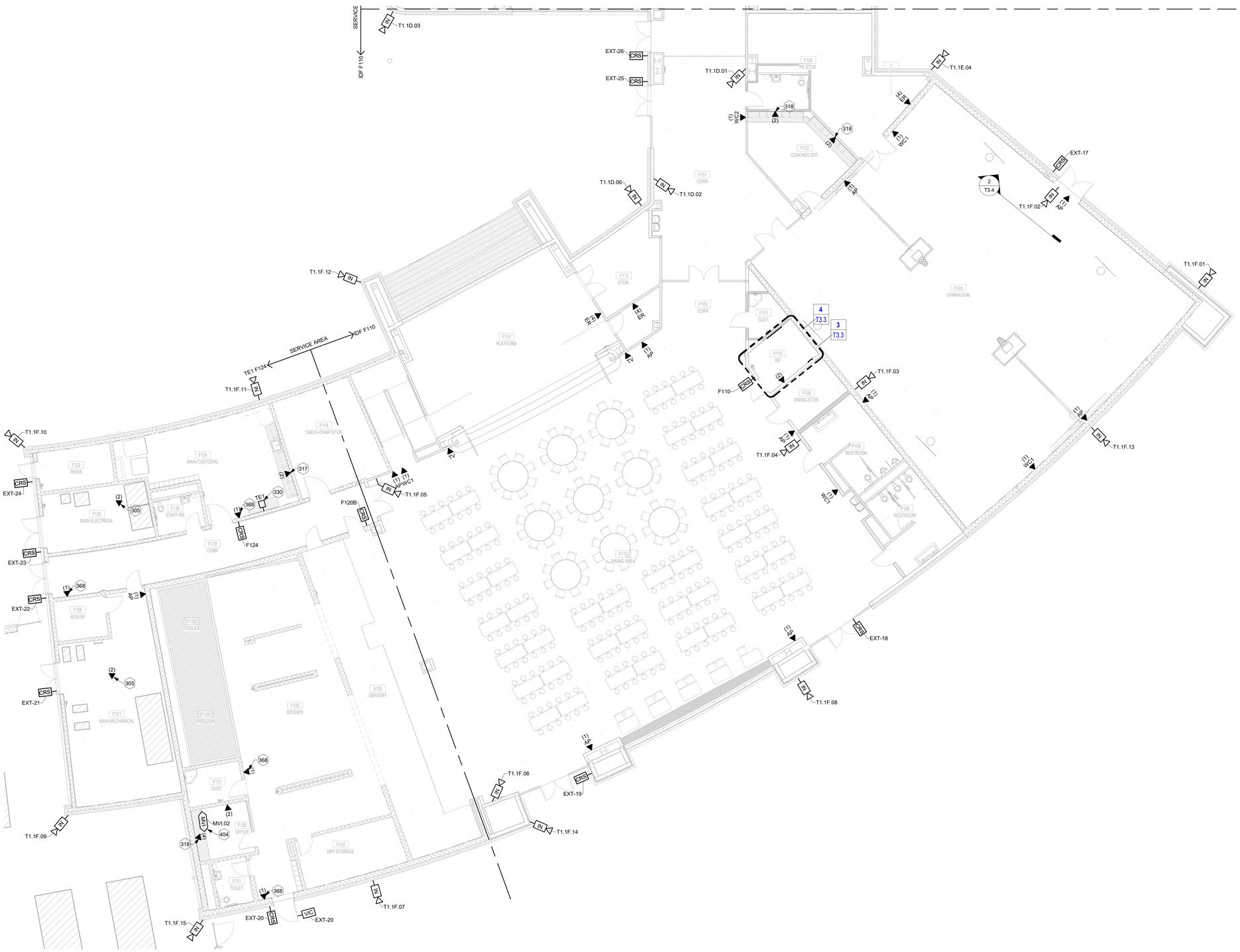
305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.
317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.
318 COORDINATE WITH MILLWORK INSTALLATION.
330 5'-0" AFF TO THE CENTER
368 FOR OFE TIMECLOCK. MOUNT AT 4' AFF. COORDINATE EXACT LOCATION WITH OWNER.
404 MASTER INTERCOM TO PROVIDE REMOTE UNLOCK CAPABILITIES FOR DOOR EXT-20.

KEYNOTES



1 T_FLOOR PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

PLAN N

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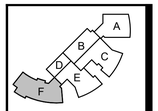

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FLOOR PLAN - LEVEL 01 - AREA F

VOLUME 2

Job No. 00802-04-01	Sheet No. T1.1F
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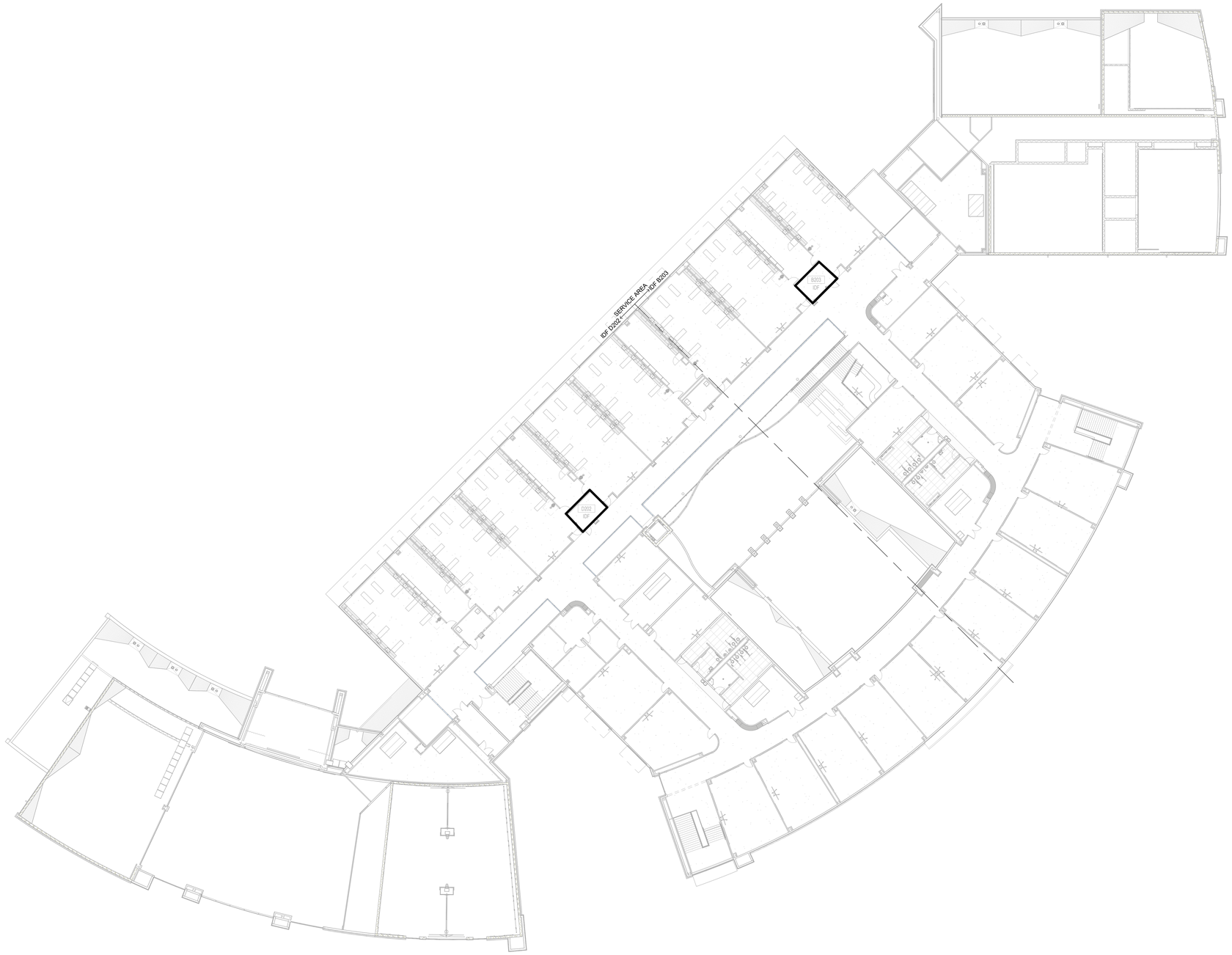

1 T_MASTER FLOOR PLAN_LEVEL 02
1" = 20'-0"

TRUE

PLAN

N

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MASTER FLOOR PLAN - LEVEL 02

VOLUME

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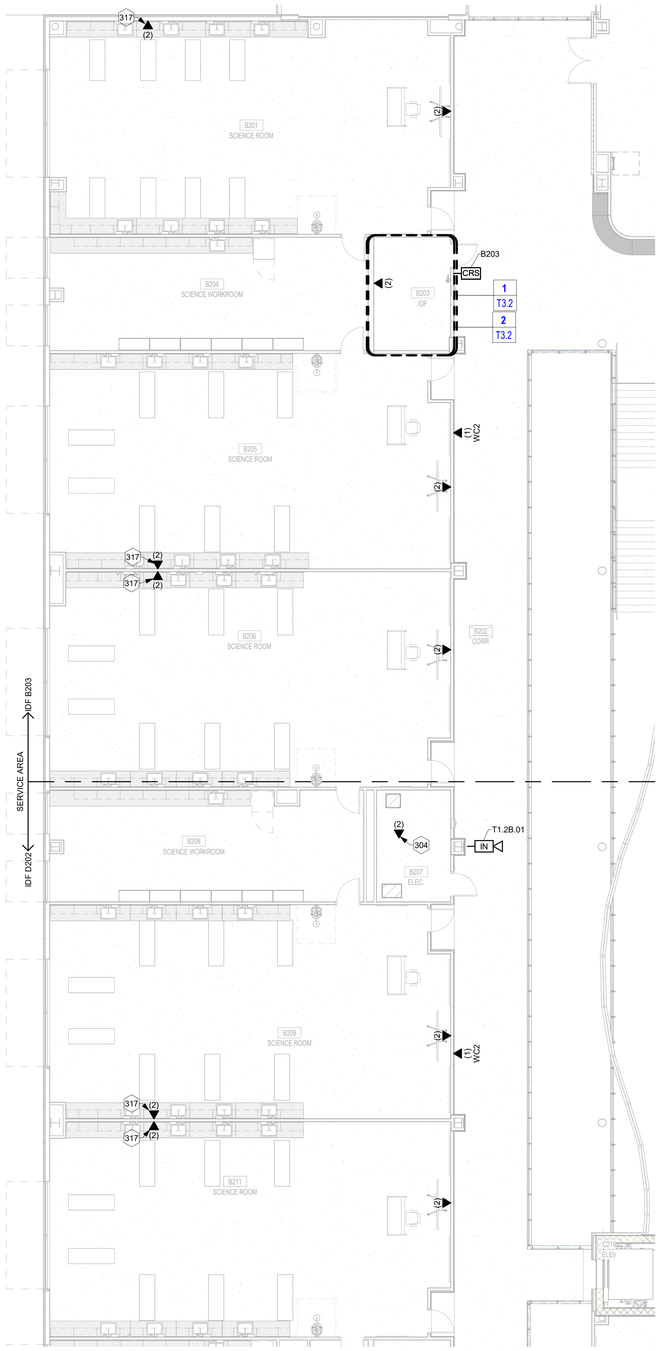

1 T_FLOOR PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

PLAN

304 COORDINATE LOCATION WITH ELECTRICAL PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.

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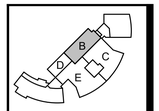

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FLOOR PLAN - LEVEL 02 - AREA B

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1 T_FLOOR PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

PLAN

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

KEYNOTES

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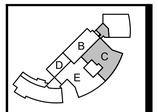

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FLOOR PLAN - LEVEL 02 - AREA C

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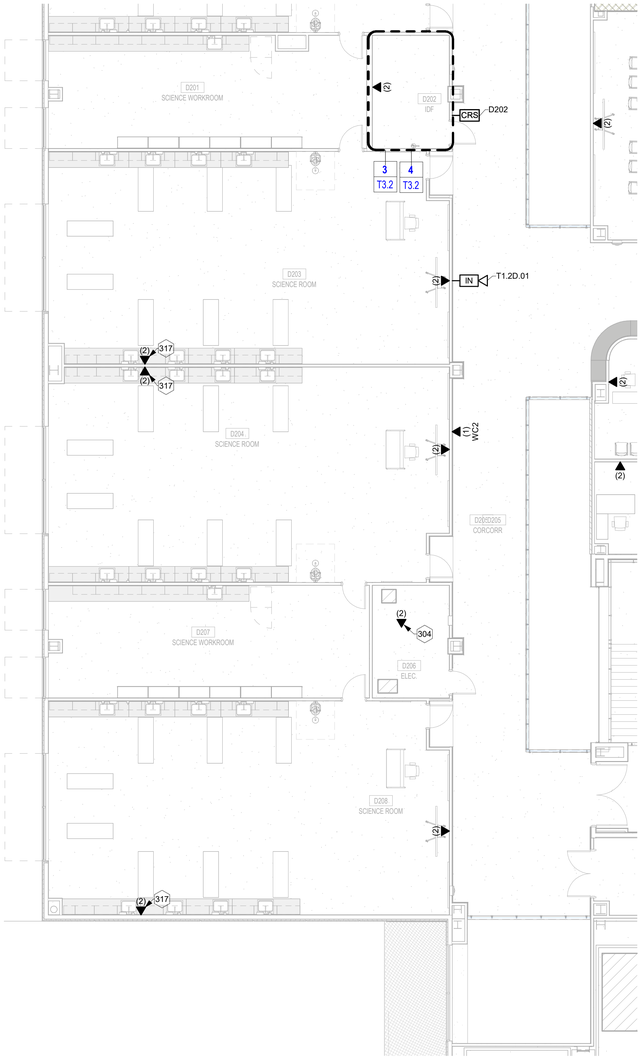
317 MOUNT ABOVE COUNTER. MATCH HEIGHT AND FACEPLATE ORIENTATION WITH OF ELECTRICAL OUTLET.

KEYNOTES



1 T_FLOOR PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN

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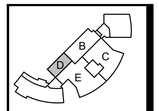

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FLOOR PLAN - LEVEL 02 - AREA D

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1 T_FLOOR PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

PLAN

305 COORDINATE LOCATION WITH BUILDING AUTOMATION PANEL. PROVIDE A CONTINUOUS CONDUIT PATHWAY WITHIN THIS SPACE.

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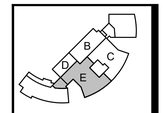

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FLOOR PLAN - LEVEL 02 - AREA E

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1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

PLAN

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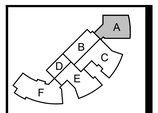

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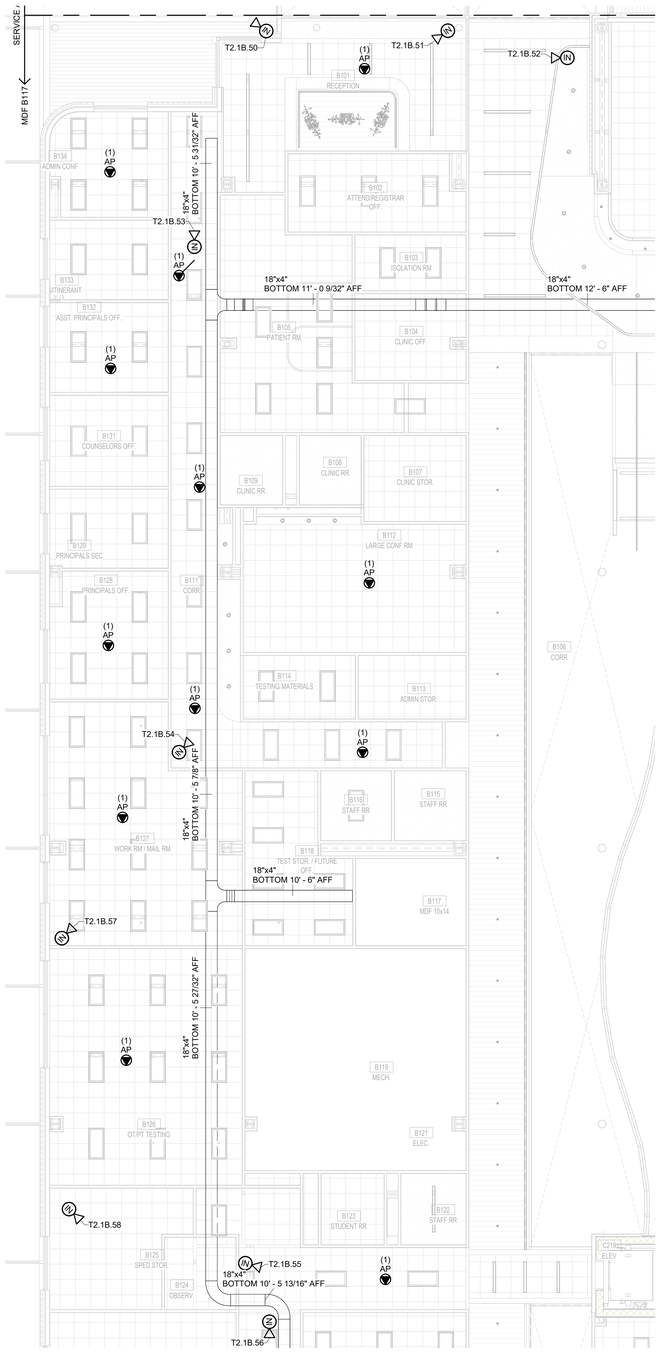

1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

PLAN

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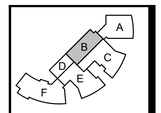

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1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

PLAN

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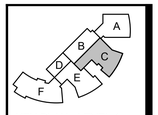

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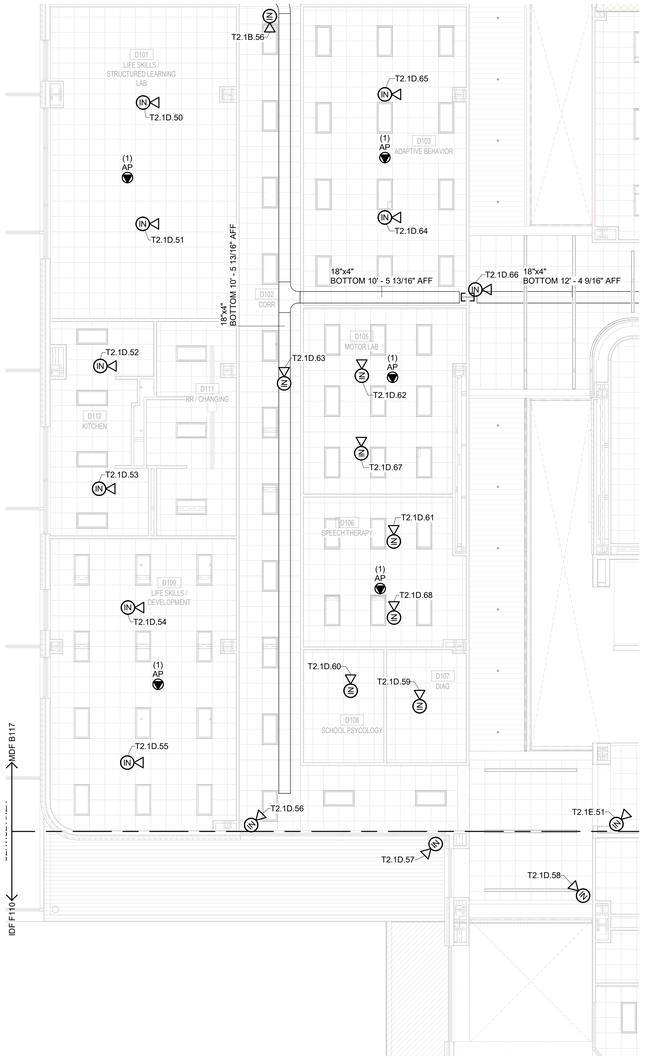

1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN

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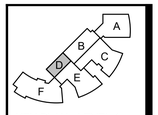

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1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

PLAN

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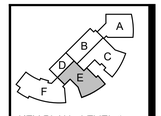

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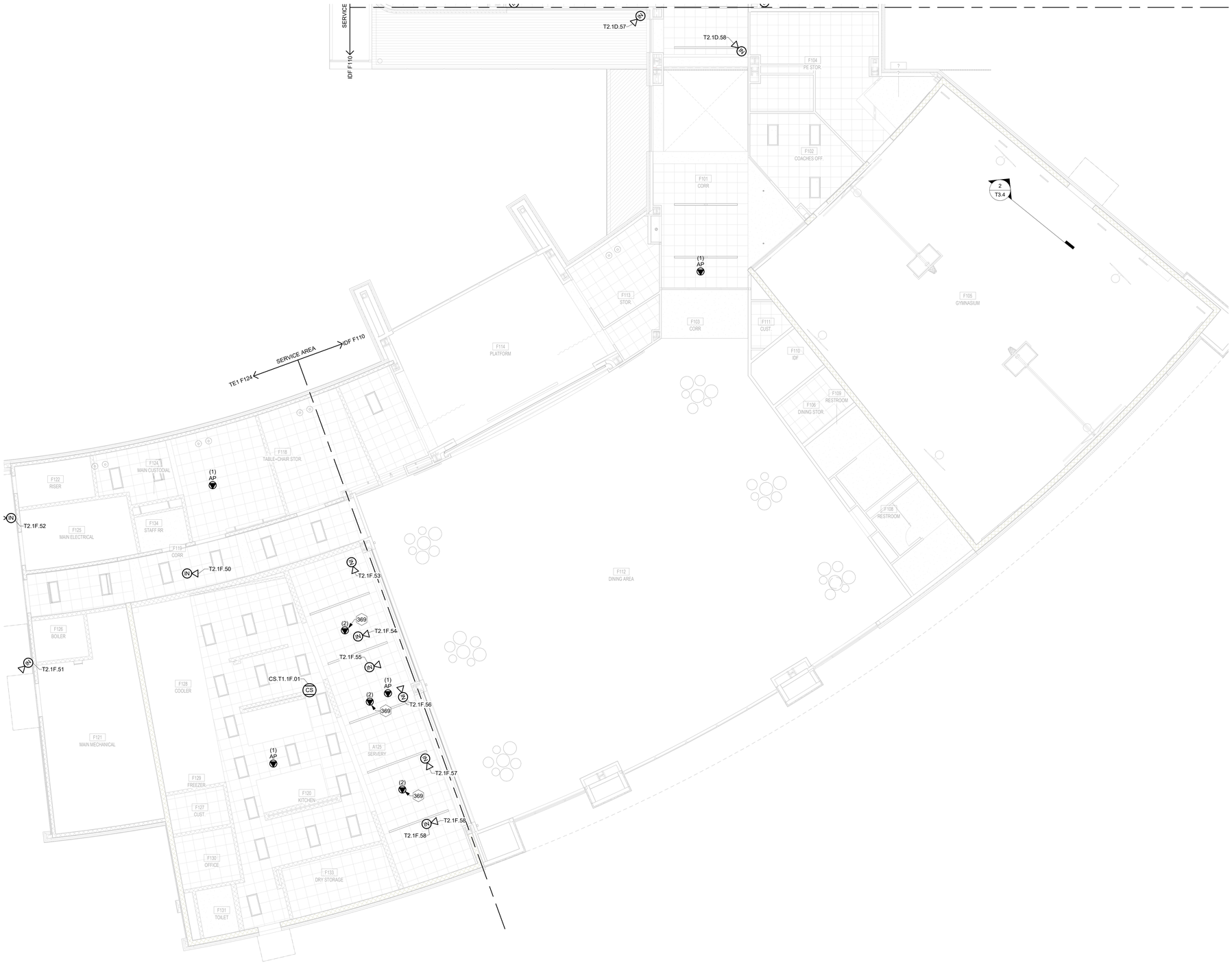

KEYNOTES

1 T_REFLECTED CEILING PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

PLAN N

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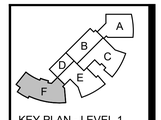

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VOLUME 2

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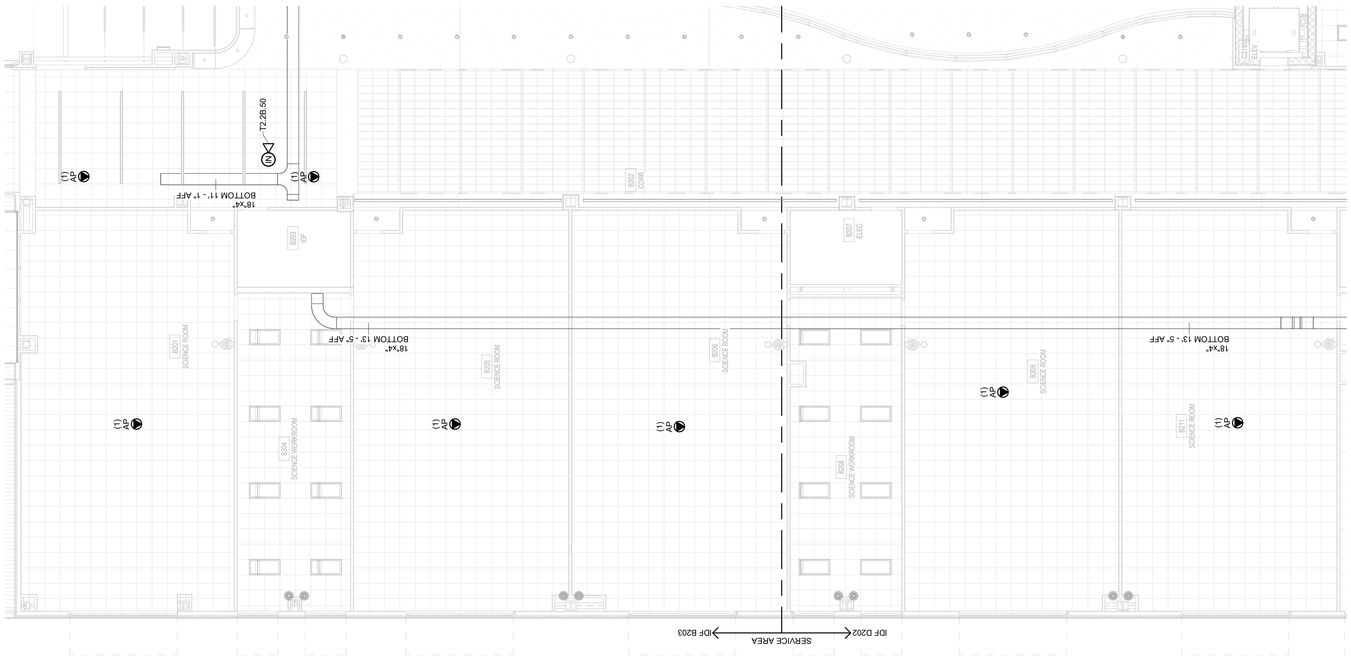

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1 T_REFLECTED CEILING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

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1 T_REFLECTED CEILING PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

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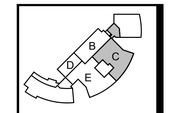

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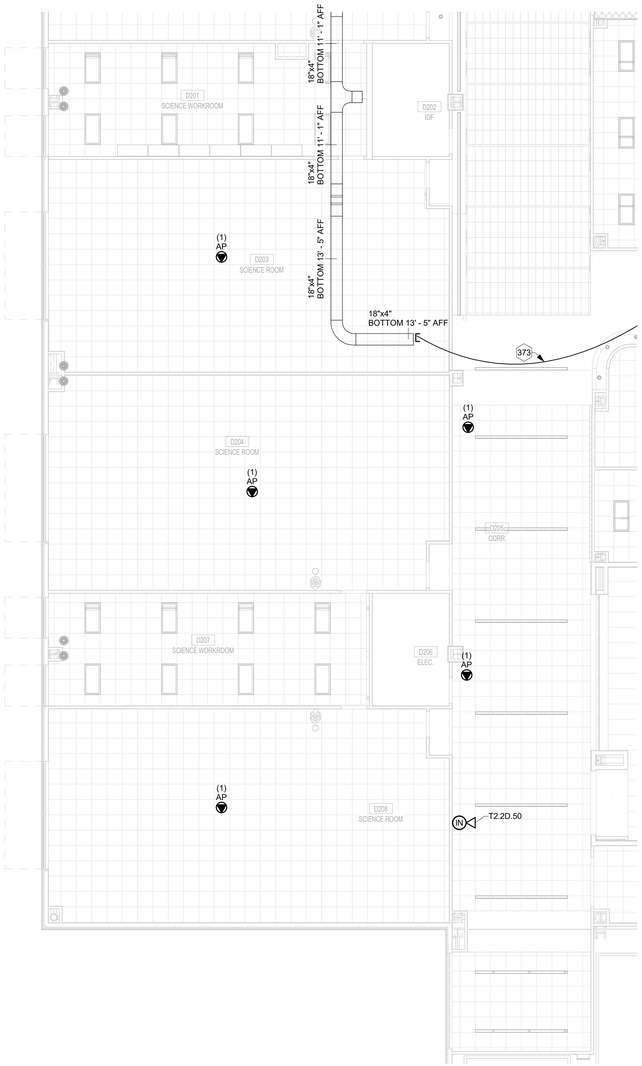

1 T_REFLECTED CEILING PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN

373 (4) 4" C

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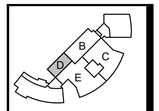

KEY PLAN - LEVEL 2
N.T.S.

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BICSI ID # 160773
EXPIRES 12-31-27
RCDD
03.12.2026

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REFLECTED CEILING PLAN - LEVEL 02 - AREA D

VOLUME 2

Job No. 00802-04-01	Sheet No.
Drawn By: WJHW	T2.2D
Date: 07.15.26	

7/14/2026 5:46:14 PM
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373 (4) 4" C

KEYNOTES



1 T_REFLECTED CEILING PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

PLAN

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

KEY PLAN - LEVEL 2
N.T.S.

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REFLECTED CEILING PLAN - LEVEL 02 - AREA E

VOLUME 2

Job No.	Sheet No.
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Drawn By: WJHW	
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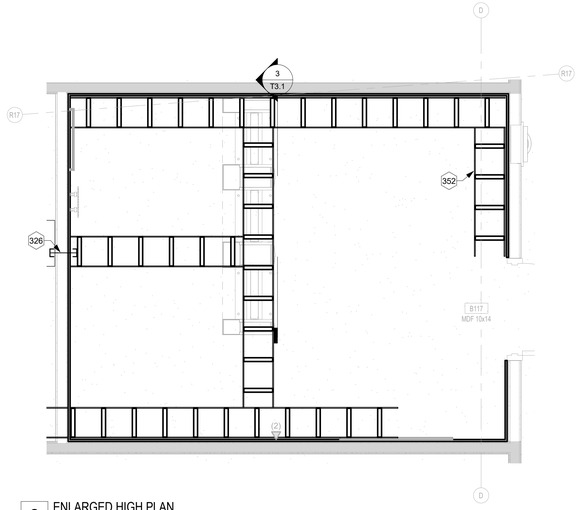
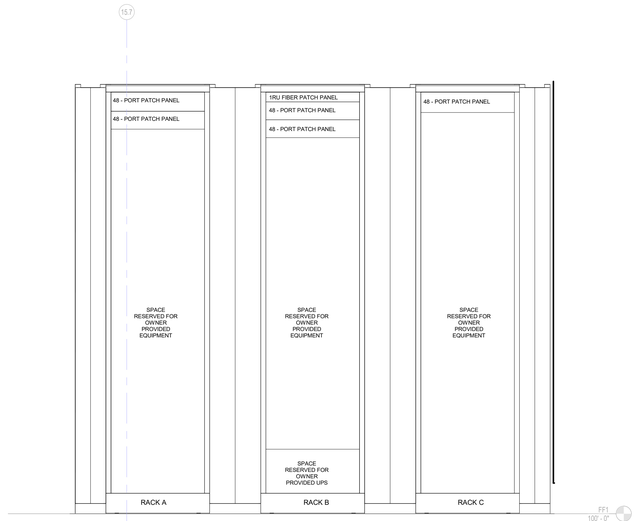
326 (4) 4" SLEEVES
328 4" C, REF T18-11
350 PRIMARY BONDING BUSBAR (PBB) AT 2'-0" AFF.
352 12" CABLE RUNWAY (TYPICAL).
354 24" VERTICAL CABLE RUNWAY.
362 3/4" FIRE RATED PLYWOOD WALL LINING.
364 30" X 42" LAMINATED CAD FLOOR PLAN 5' AFF TO CENTER.

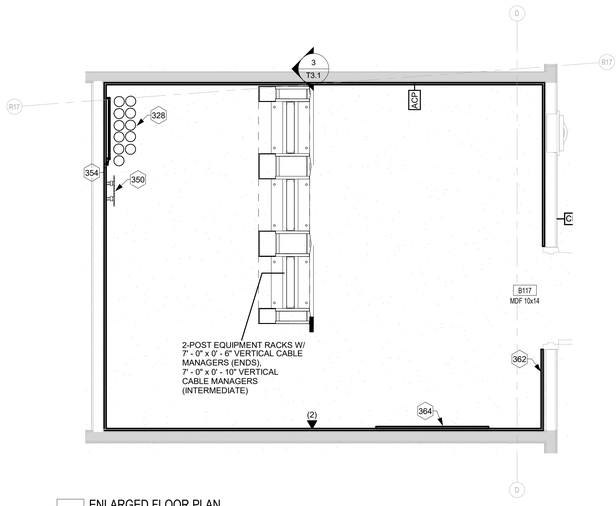
KEYNOTES



2 ENLARGED HIGH PLAN
1/2" = 1'-0"



3 RACK ELEVATION MDF B117
NTS



1 ENLARGED FLOOR PLAN
1/2" = 1'-0"

Revision / Date

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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ENLARGED PLANS

VOLUME 22

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00802-04-01	T3.1
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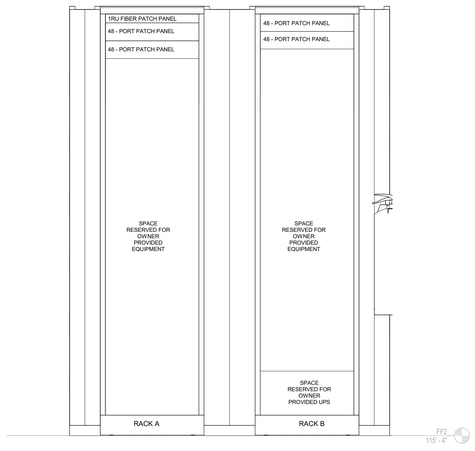
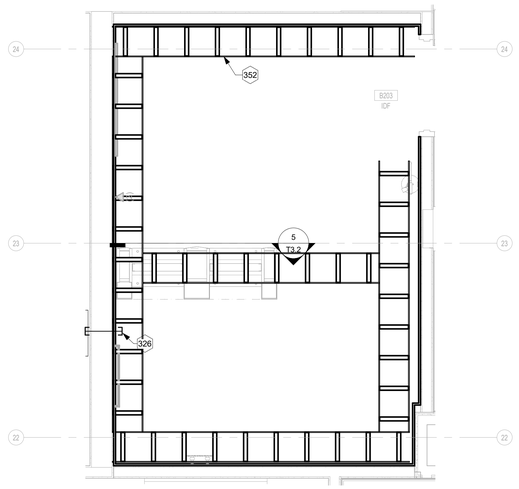
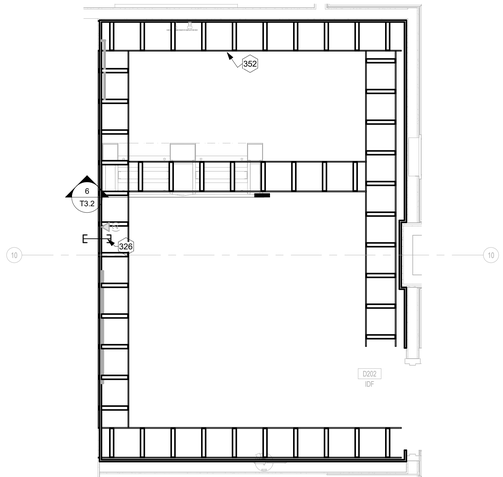


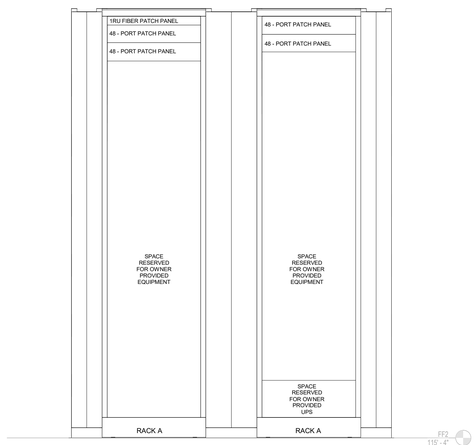
6 RACK ELEVATION IDF D202
1" = 1'-0"



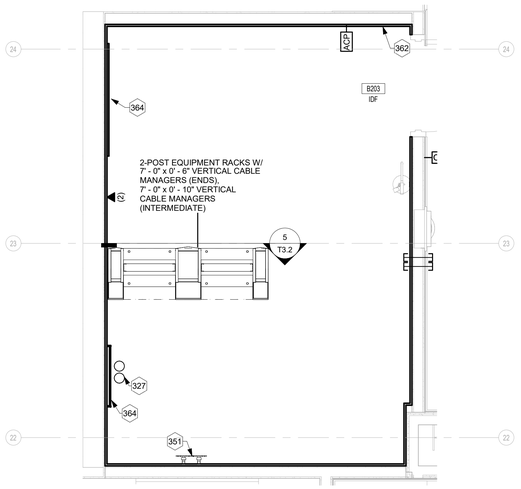
2 ENLARGED HIGH PLAN
1/2" = 1'-0"



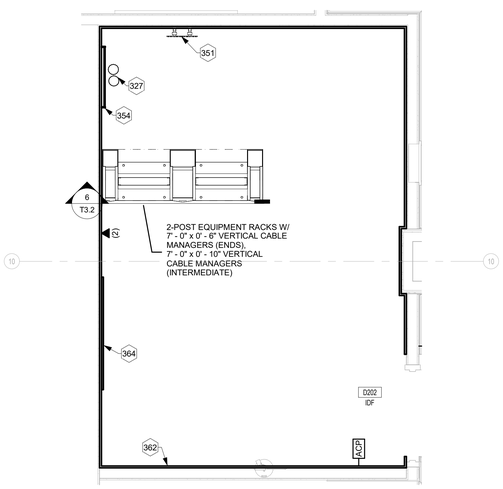
4 ENLARGED HIGH PLAN
1/2" = 1'-0"



5 RACK ELEVATION IDF B203
NTS



1 ENLARGED FLOOR PLAN
1/2" = 1'-0"



3 ENLARGED FLOOR PLAN
1/2" = 1'-0"

326 (4) 4" SLEEVES
327 REFER TO PATHWAY RISER, DEATIL 1, SHEET T18.10.
351 SECONDARY BONDING BUSBAR (SBB) AT 6'-0" AFF.
352 12" CABLE RUNWAY (TYPICAL).
354 24" VERTICAL CABLE RUNWAY.
362 3/4" FIRE RATED PLYWOOD WALL LINING.
364 30" X 42" LAMINATED CAD FLOOR PLAN 5' AFF TO CENTER.

KEYNOTES

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TOMBALL, TEXAS

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ENLARGED PLANS

VOLUME 22

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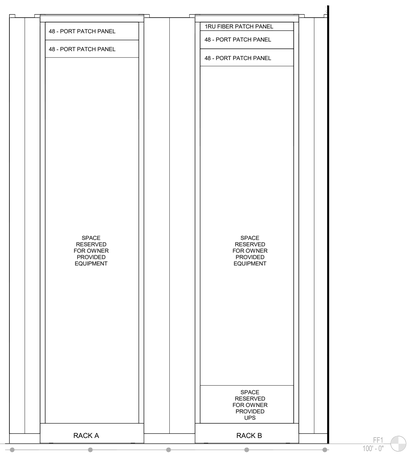
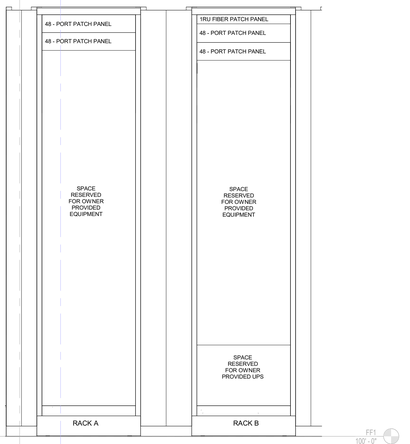
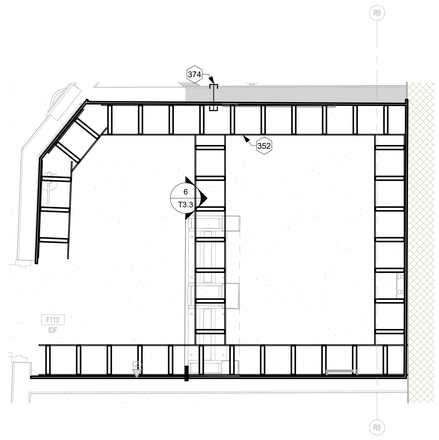


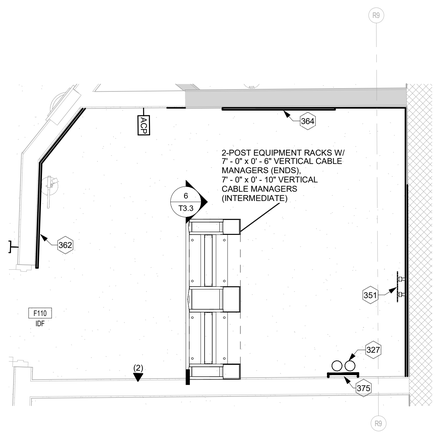
6 RACK ELEVATION IDF F110
1" = 1'-0"



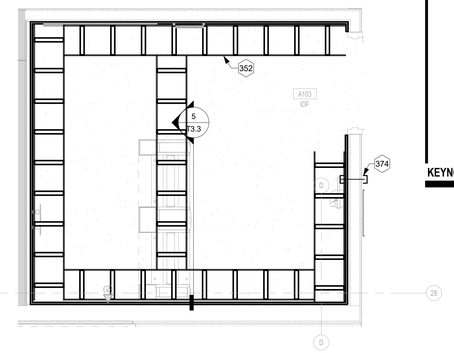
5 RACK ELEVATION IDF A103
1" = 1'-0"



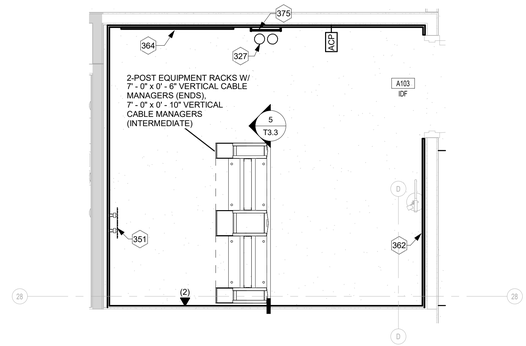
4 ENLARGED HIGH PLAN
1/2" = 1'-0"



3 ENLARGED FLOOR PLAN
1/2" = 1'-0"



2 ENLARGED HIGH PLAN
1/2" = 1'-0"



1 ENLARGED FLOOR PLAN
1/2" = 1'-0"

KEYNOTES

327 REFER TO PATHWAY RISER, DEATIL 1, SHEET T18.10.
351 SECONDARY BONDING BUSBAR (SBB) AT 6'-0" AFF.
352 12" CABLE RUNWAY (TYPICAL).
362 3/4" FIRE RATED PLYWOOD WALL LINING.
364 30" X 42" LAMINATED CAD FLOOR PLAN 5' AFF TO CENTER.
374 4" FIRE-RATED SLEEVES.
375 12" VERTICAL CABLE RUNWAY.

Revision / Date

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TOMBALL, TEXAS

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Joshua Thomas
BICSI ID # 160773
EXPIRES 12-31-27
RCDD
03.12.2026

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ENLARGED PLANS

PACKAGE VOLUME 22

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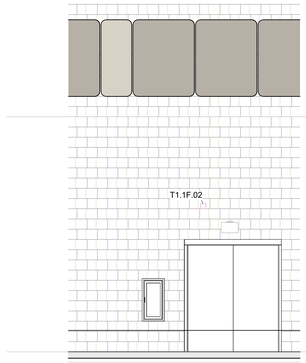

2 CAMERA - 1F.02
1/4" = 1'-0"

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SECURITY CAMERA ELEVATIONS

PACKAGE VOLUME 22

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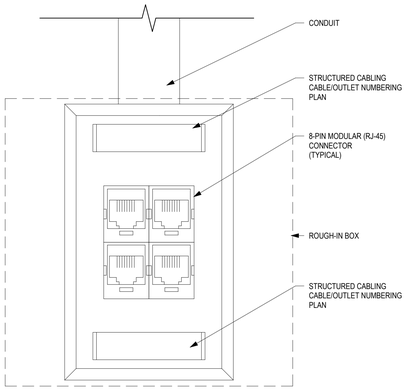
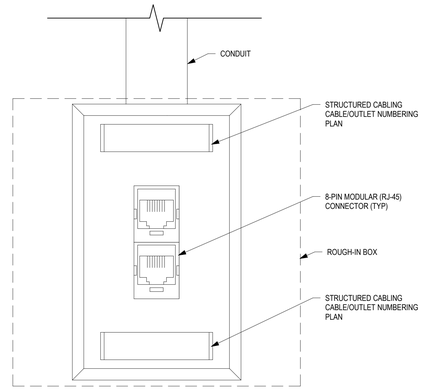


6 TYPICAL FOUR-PORT OUTLET
NTS



3 TYPICAL TWO-PORT OUTLET
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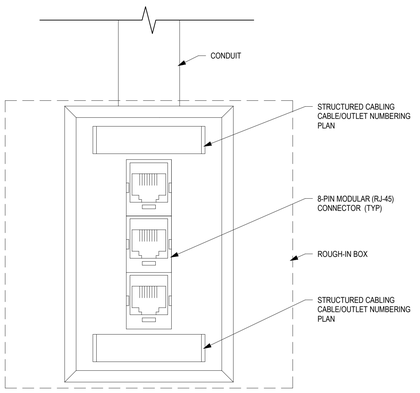

5 TYPICAL THREE-PORT OUTLET
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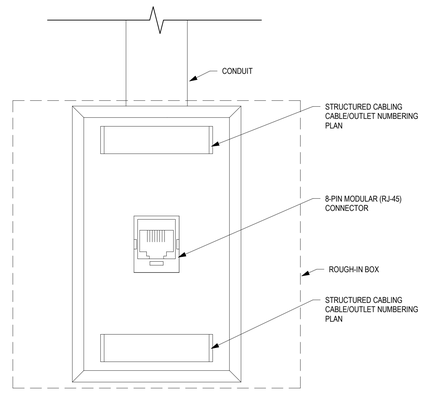

2 TYPICAL ONE-PORT OUTLET
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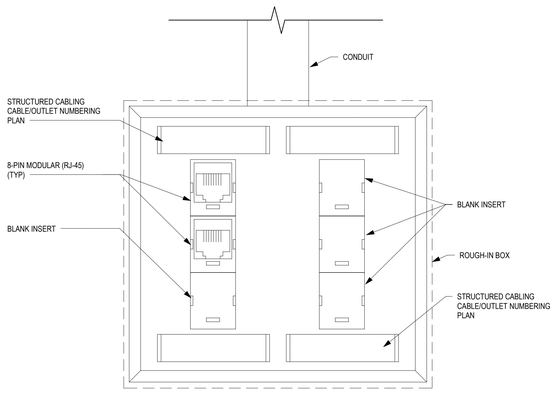
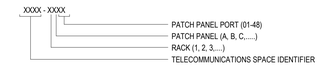


NOTES:
1. LOAD PORTS STARTING AT THE TOP LEFT TO MATCH ARRANGEMENT OF SINGLE GANG FACEPLATES. LEAVE BOTTOM (2) PORTS OPEN FOR FOUR PORT LCATIONS.
2. PROVIDED IN-USE COVER FOR OUTDOOR LOCATIONS.

4 MASONRY WALL OR OUTDOOR SURFACE MOUNT LOCATIONS
NTS



1 STRUCTURED CABLING CABLE/OUTLET NUMBERING PLAN
NTS

Revision / Date

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STRUCTURED CABLING PLATE DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No. T18.01
Drawn By: WJHW	
Date: 07.15.26	

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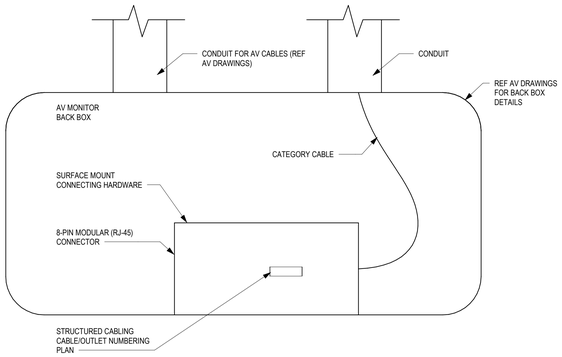
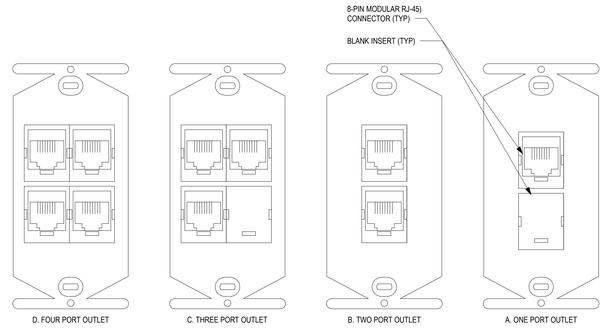
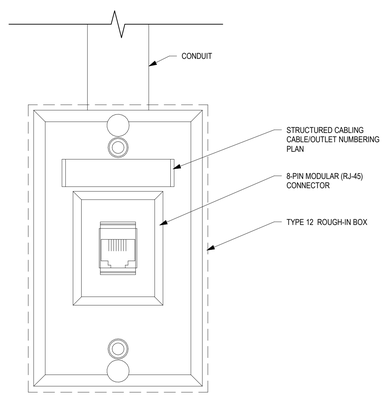


6 TYPICAL WALL OUTLET FOR DISPLAY
NTS

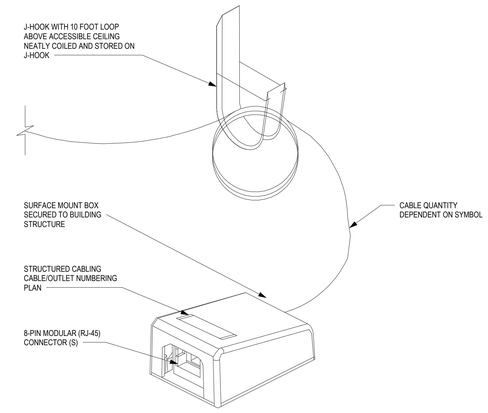


NOTES:
1. USE IN FLOOR BOXES, POKE THROUGHS, AND RACEWAYS.
2. LABEL USING STRUCTURED CABLING CABLE/OUTLET NUMBERING PLAN

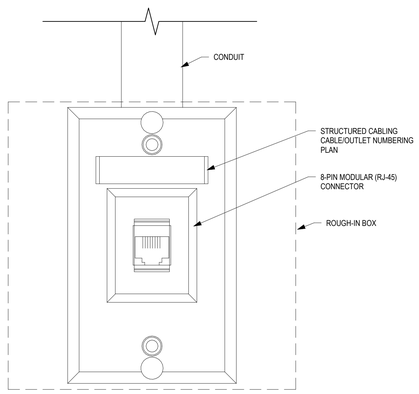
3 TYPICAL 106/DECORA FRAME OUTLET
NTS



5 MASONRY WALL PHONE FACEPLATE
NTS



2 CEILING OUTLET IN ACCESSIBLE CEILING
NTS



4 TYPICAL WALL PHONE OUTLET
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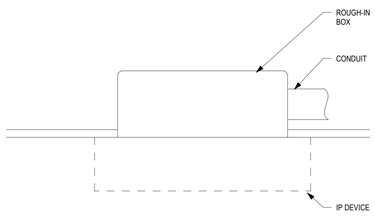

CEILING MOUNTED

NOTES:
1. CEILING MOUNT DETAIL SHOWN WITH TYPE 10 BACK BOX.
2. REFER TO GENERAL NOTES AND LEGENDS FOR REQUIREMENTS.

1 CEILING OUTLET ON ACCESSIBLE CEILING
NTS

Revision / Date

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STRUCTURED CABLING PLATE DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No. T18.02
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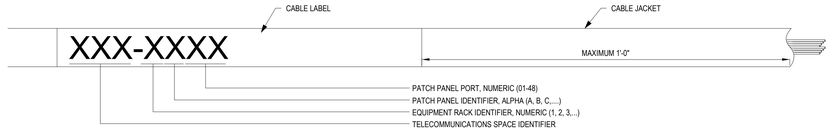
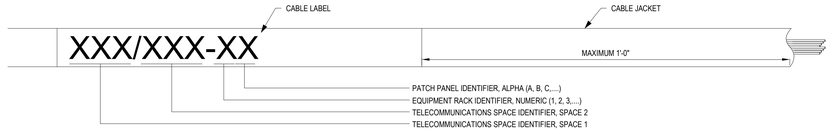


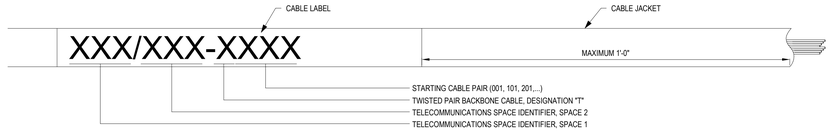
NOTES:
1. DETAIL SHOWN REPRESENTS A 4-PAIR HORIZONTAL LINK TERMINATING IN A TELECOMMUNICATIONS SPACE ON A RACK MOUNT PATCH PANEL OR AT THE WORKSTATION.

6 HORIZONTAL LINK CABLE LABEL DETAIL
NTS

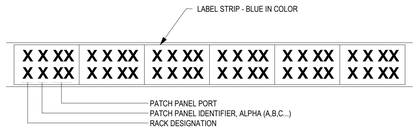


NOTES:
1. DETAIL SHOWN REPRESENTS A 25-PAIR BACKBONE EXTENSION CABLE WITHIN A TELECOMMUNICATIONS SPACE TERMINATED ON A TERMINATION BLOCK ON ONE END AND ON A PATCH PANEL ON THE OTHER END.

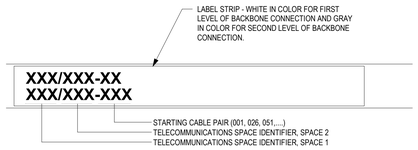
5 TWISTED PAIR BACKBONE EXTENSION CABLE LABEL DETAIL
NTS



4 INTRA-BUILDING TWISTED PAIR BACKBONE CABLE LABEL DETAIL
NTS



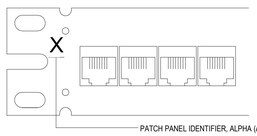
DETAIL B



DETAIL A

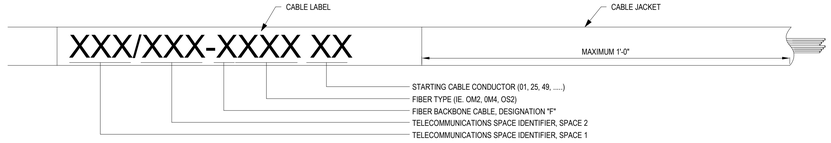
NOTES:
1. DETAIL "A" REPRESENTS A 110 STYLE TERMINATION BLOCK LABEL STRIP FOR USE WITH TWISTED PAIR BACKBONE CABLE TERMINATIONS.
2. DETAIL "B" REPRESENTS A 110 STYLE TERMINATION BLOCK LABEL FOR 25 PAIR EXTENSION TO RACK MOUNT PATCH PANELS.

8 TWISTED PAIR TERMINATION BLOCK LABEL DETAIL
NTS

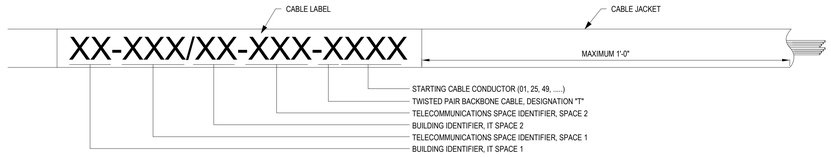


NOTES:
1. DETAIL SHOWN REPRESENTS A SINGLE RACK SPACE PATCH PANEL TERMINATING HORIZONTAL LINK CABLING IN A TELECOMMUNICATIONS SPACE.

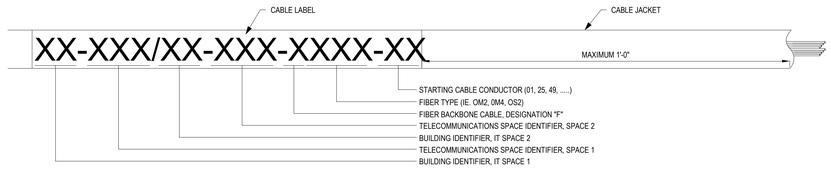
7 PATCH PANEL LABEL DETAIL
NTS



3 INTRA-BUILDING FIBER OPTIC BACKBONE CABLE LABEL DETAIL
NTS



2 INTER-BUILDING COPPER BACKBONE CABLE LABEL DETAIL
NTS



1 INTER-BUILDING FIBER OPTIC BACKBONE CABLE LABEL DETAIL
NTS

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Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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Joshua Thomas
BICSI ID # 160773
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STRUCTURED CABLING LABELING DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No. T18.04
Drawn By: WJHW	
Date: 07.15.26	

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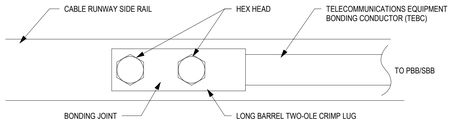
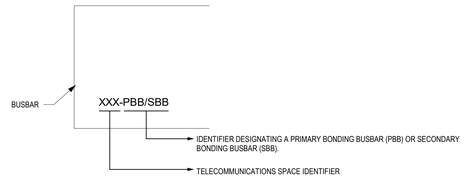
TBB/BBC linear length m (ft)	Conductor size (AWG)
less than 4 (13)	6
4 - 6 (14 - 20)	4
6 - 8 (21 - 26)	3
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
20 - 26 (67 - 84)	3/0
26 - 32 (85 - 105)	4/0
32 - 38 (106 - 125)	250 kcmil
38 - 46 (126 - 150)	300 kcmil
46 - 53 (151 - 175)	350 kcmil
53 - 76 (176 - 250)	500 kcmil
76 - 91 (251 - 300)	600 kcmil
Greater than 91 (301)	750 kcmil

7 TBB AND BBC CONDUCTOR SIZE CHART
NTS

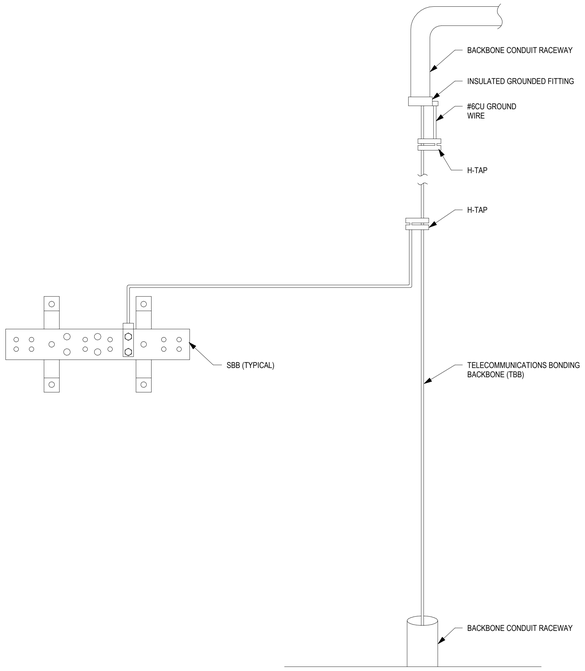


NOTES:
1. REMOVE PAINT FROM CABLE RUNWAY AT BONDING POINT. UTILIZE JOINT COMPOUND WHEN ATTACHING THE CRIMP LUG TO THE CABLE RUNWAY.

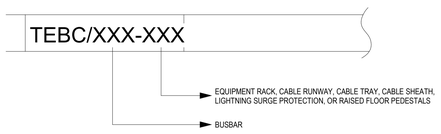
5 CABLE RUNWAY BONDING DETAIL
NTS



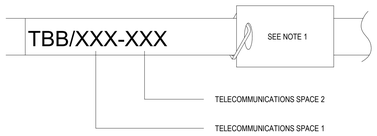
3 BONDING BUSBAR LABEL DETAIL
NTS



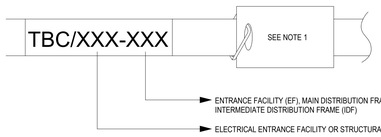
6 TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONNECTION TO SECONDARY BONDING BUSBAR (SBB) DETAIL
NTS



DETAIL C - TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

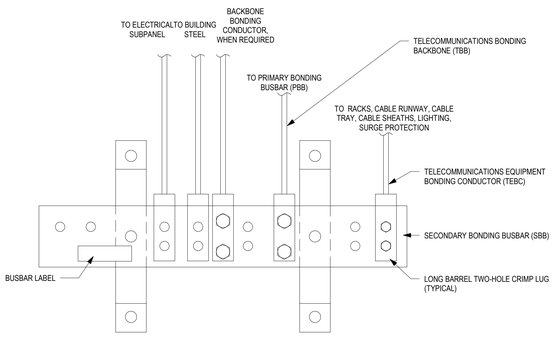


DETAIL B - TELECOMMUNICATIONS BONDING BACKBONE

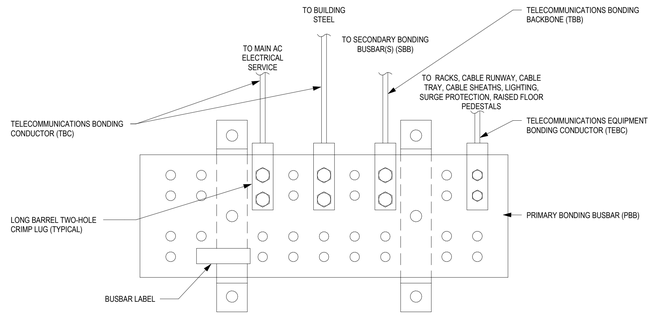


DETAIL A - TELECOMMUNICATIONS BONDING CONDUCTOR

4 BONDING CONDUCTOR LABEL DETAIL
NTS
NOTES:
1. IN ADDITION TO THE CABLE LABEL, PROVIDE A PERMANENT TAG ON EACH END OF EACH GROUND WIRE STATING "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER". PANDUIT #LTYK.



2 SECONDARY BONDING BUSBAR (SBB) DETAIL
NTS



1 PRIMARY BONDING BUSBAR (PBB) DETAIL
NTS

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STRUCTURED CABLING GROUNDING AND BONDING DETAILS

VOLUME 2

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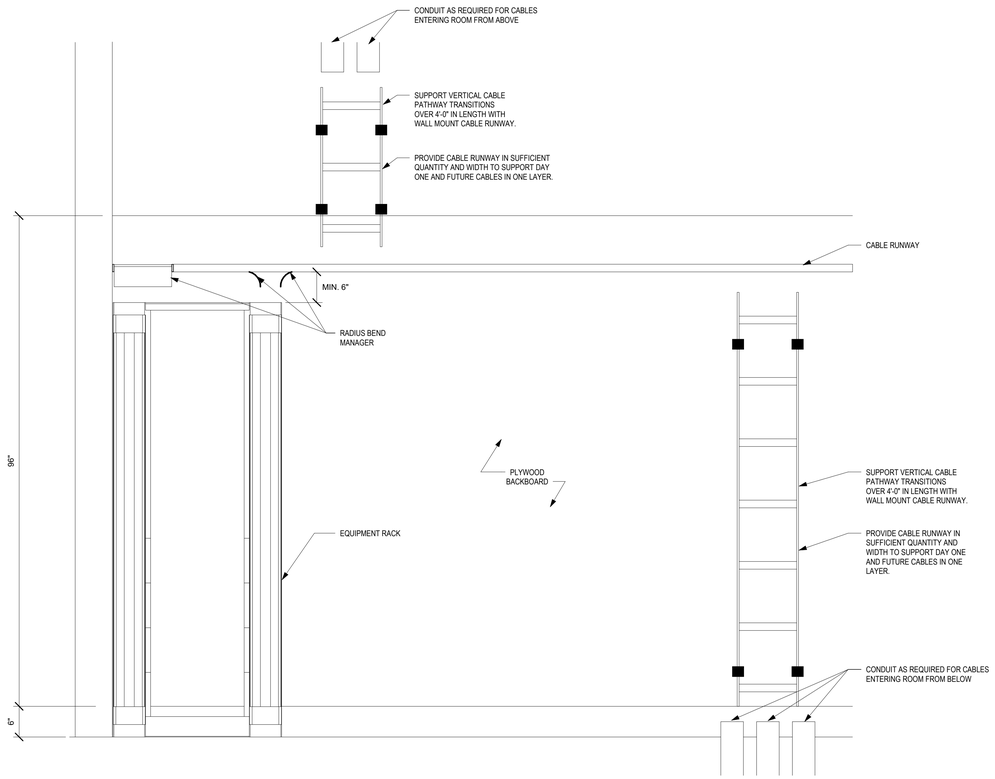
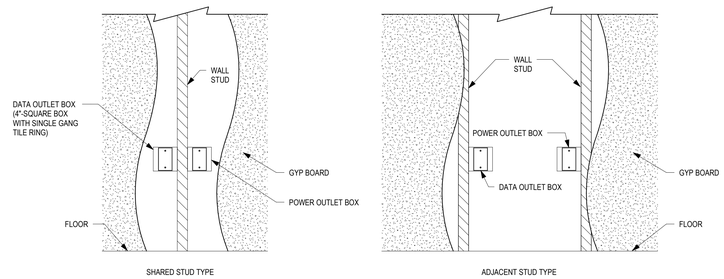
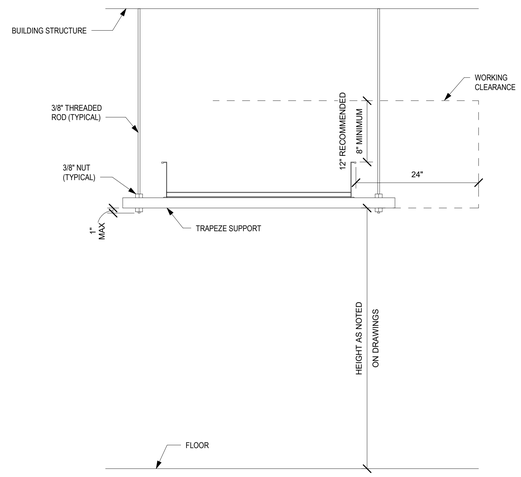


4 IT CLOSET VERTICAL PATHWAYS, TYPICAL
NTS



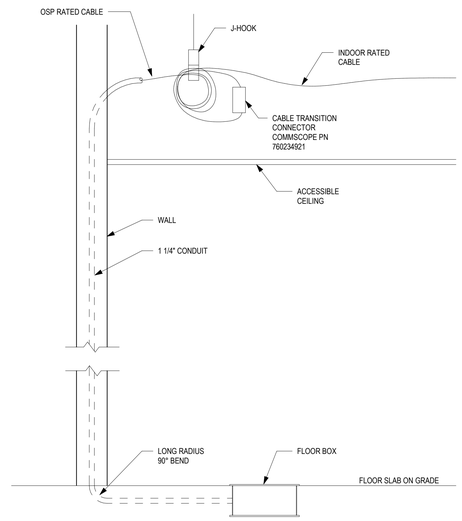
NOTES:
1. ALL DATA OUTLETS REQUIRE AN ADJACENT POWER OUTLET TO SUPPORT DATA EQUIPMENT.
2. INSTALL POWER AND DATA OUTLETS ON THE SAME WALL WITH A MAXIMUM OF 3 FEET BETWEEN THEM.

2 TYPICAL POWER WALL OUTLET REQUIRMENTS TO SUPPORT DATA EQUIPMENT
NTS



NOTES:
1. SPACE BETWEEN TRAPEZE SUPPORT BRACKETS MUST NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
2. IN ACCESSIBLE CEILING SPACE, NO LESS THAN 3" ABOVE CEILING.
3. WORKING CLEARANCE INDICATED CAN BE ON EITHER SIDE.
4. PROVIDE THREADED ANCHORS OR APPROPRIATE CLAMPS TO ATTACH THREADED ROD TO BUILDING STRUCTURE.
5. MINIMUM WORKING CLEARANCE NOTED ABOVE DOES NOT HAVE TO BE CONTINOUS ALONG THE LENGTH OF THE CABLE TRAY. A MINIMUM 2 FOOT WIDE ACCESS IS REQUIRED NO MORE THAT 8 FEET APART ALONG THE CABLE TRAY PATHWAY.

3 CABLE TRAY SECTION - TRAPEZE SUPPORT
NTS



NOTES:
1. FOR INACCESSIBLE CEILING AN ACCESS PANEL IS REQUIRED TO PROVIDE ACCESS TO J1 BOX.
2. PROVIDE LABEL WITH 1/2" LETTERS ON CEILING GRID WITH OUTLET OR FIRST PORT NUMBER.

1 CABLE TRANSITION FOR FLOOR BOXES IN SLAB ON GRADE INSTALLATIONS (TYP)
NTS

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STRUCTURED CABLING DETAILS

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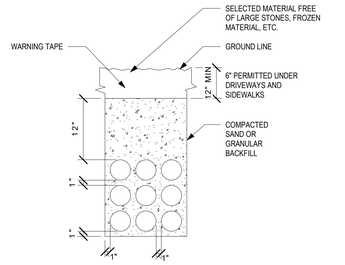
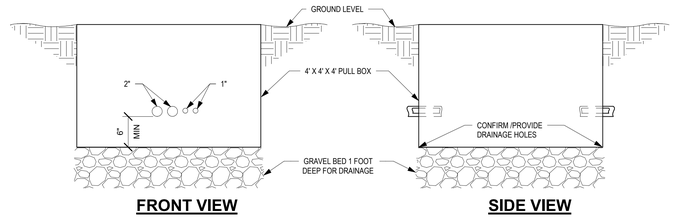


NOTES:
1. PROVIDE MAKER TAPE FOR THE ENTIRE LENGTH OF OPEN TRENCH DUCT INSTALLATION. PLACE MARKER TAPE NO GREATER THAN 24-INCHES BELOW GRADE

2 UNDERGROUND CONDUIT DETAIL
NTS



1 HANDHOLE DETAIL
NTS

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UNDERGROUND DETAILS

VOLUME 2

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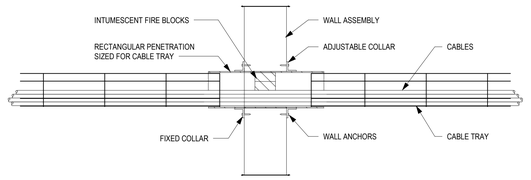
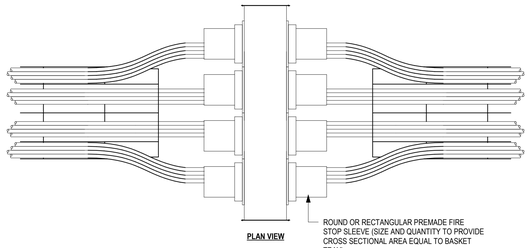


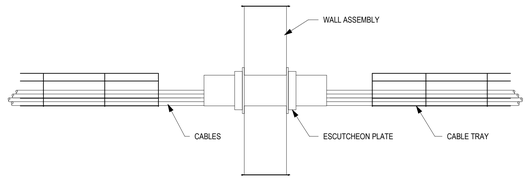
SECTION VIEW

NOTES:
1. SUPPORT CABLE TRAY FROM BUILDING STRUCTURE WITHIN 2 FEET OF WALL

2 CABLE TRAY WALL PENETRATIONS USING FACTORY FABRICATED CABLE TRAY FIRESTOP PENETRATION
NTS



PLAN VIEW



SECTION VIEW

NOTES:
1. SUPPORT CABLE TRAY FROM BUILDING STRUCTURE WITHIN 2 FEET OF WALL

1 CABLE TRAY WALL PENETRATIONS USING DETACHED SLEEVES
NTS

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WALL PENETRATIONS

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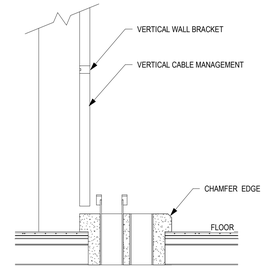
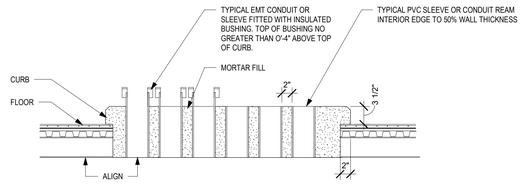
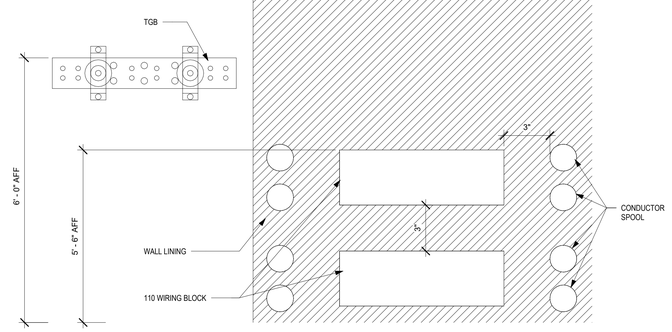


3 VERTICAL CABLE BLOCKOUT SECTION
1" = 1'-0"



NOTE: DIMENSIONS NO LESS THAN VALUES

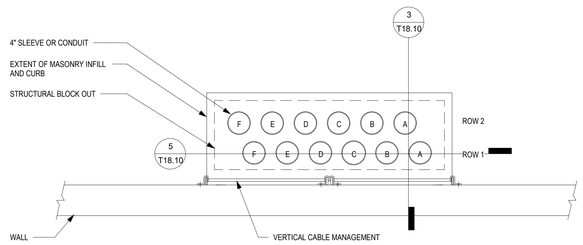
5 VERTICAL CABLE BLOCKOUT - SECTION
1" = 1'-0"



2 TGB
NTS

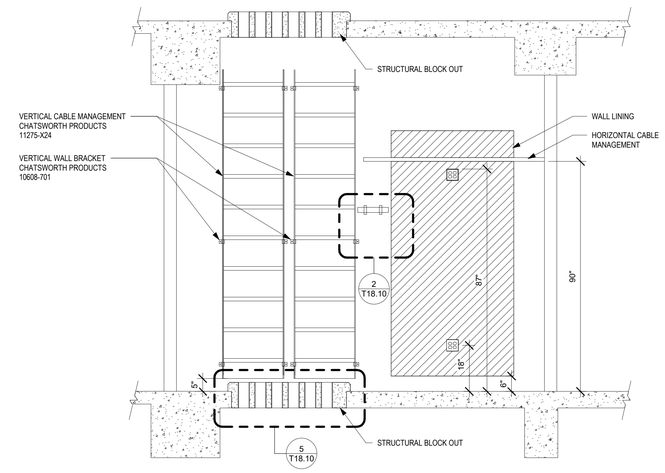
4-INCH CONDUIT	CABLE RUNWAY		
	12"	18"	24"
1-2	(1)	---	---
3-4	---	---	(1)
5-6	---	(2)	---
7-8	---	---	(2)
9-10	---	(2)	(1)

7 VERTICAL PATHWAY SIZING CHART - 18.VPSC.001
NTS



NOTE: REFERENCE ES6.01 FOR QUANTITIES

4 VERTICAL CABLE SLEEVES OR CONDUIT- TYPICAL
1" = 1'-0"



1 CABLE RUNWAY ELEVATION
NTS

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CABLE PATHWAY DETAILS

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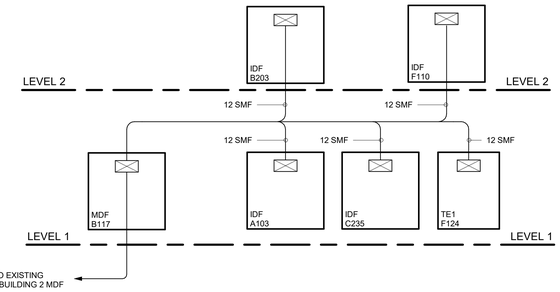
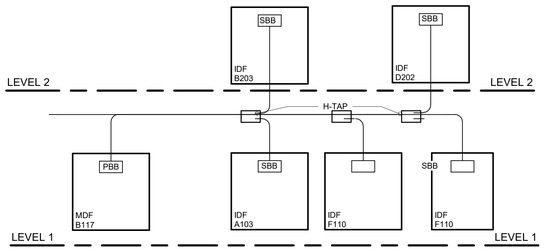
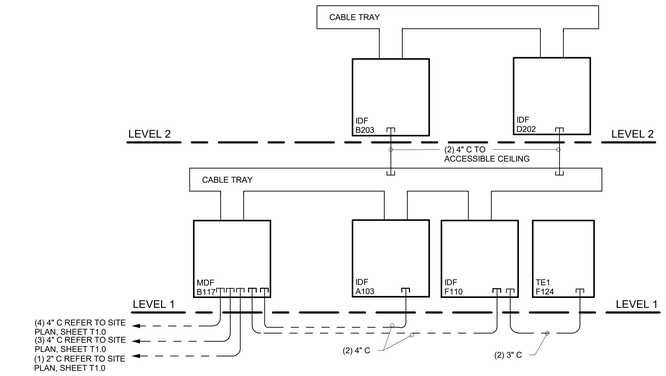


2 FIBER OPTIC BACKBONE RISER
NTS



3 GROUNDING AND BONDING RISER
NTS



1 PATHWAY DIAGRAM
NTS

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RISER DIAGRAMS

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ACCESS CONTROL SCHEDULE

DESIGNATOR	TYPE	NAME	DETAIL	PANEL LOCATION	COMMENTS
FF1					
A101A	CRS	RECEPTION	2/T19.70	IDF A103	
A101B	CRS	CORRIDOR	2/T19.71	IDF A103	
A103	CRS	IDF	1/T19.70	IDF A103	
B101	CRS	RECEPTION	2/T19.70	MDF B117	
B105A	CRS	PATIENT ROOM	1/T19.70	MDF B117	
B105B	CRS	CORRIDOR	1/T19.70	MDF B117	
B111	CRS	ADMIN	1/T19.70	MDF B117	
B112A	CRS	LARGE CONFERENCE ROOM	1/T19.70	MDF B117	
B117	CRS	MDF	1/T19.70	MDF B117	
B135	CRS	ADMIN	1/T19.70	MDF B117	
CS.T1.1F.01	CS	KITCHEN		IDF F110	
DR.01	DR	RECEPTION	1/T19.72	MDF B117	
DR.02	DR	PATIENT ROOM	1/T19.72	MDF B117	
EXT-01	VIC	CONTROLLED VESTIBULE	3/T19.71	IDF A103	
EXT-01	CRS	CONTROLLED VESTIBULE	3/T19.71	IDF A103	
EXT-02	CRS	ART ROOM	1/T19.70	IDF A103	
EXT-03	CRS	ART ROOM	1/T19.70	IDF A103	
EXT-04	CRS	CORRIDOR	2/T19.71	IDF A103	
EXT-05	CRS	CORRIDOR	2/T19.70	IDF A103	
EXT-06	CRS	CORRIDOR	2/T19.71	MDF B117	
EXT-07	CRS	STAIRS	2/T19.71	MDF B117	
EXT-09	CRS	CORRIDOR	2/T19.71	MDF B117	
EXT-10	CRS	LGI MAKER SPACE	2/T19.70	MDF B117	
EXT-11	CRS	LIBRARY	2/T19.70	MDF B117	
EXT-12	CRS	CORRIDOR	2/T19.71	MDF B117	
EXT-14	CRS	STAIRS	3/T19.71	MDF B117	
EXT-15	CRS	CORRIDOR	3/T19.71	MDF B117	
EXT-16	CRS	STAIRS	3/T19.71	MDF B117	
EXT-17	CRS	GYMNASIUM	1/T19.71	IDF F110	
EXT-18	CRS	DINING AREA	2/T19.71	IDF F110	
EXT-19	CRS	DINING AREA	2/T19.71	IDF F110	
EXT-20	CRS	KITCHEN	3/T19.70	IDF F110	
EXT-20	VIC	KITCHEN	3/T19.70	IDF F110	
EXT-21	CRS	MAIN MECHANICAL	1/T19.71	IDF F110	
EXT-22	CRS	CORRIDOR	1/T19.71	IDF F110	
EXT-23	CRS	MAIN ELECTRICAL	1/T19.71	IDF F110	
EXT-24	CRS	RISER	1/T19.70	IDF F110	
EXT-25	CRS	CORRIDOR	2/T19.71	IDF F110	
EXT-26	CRS	CORRIDOR	2/T19.71	IDF F110	
F110	CRS	IDF	1/T19.70	IDF F110	
F120B	CRS	SERVERY	1/T19.70	IDF F110	
F124	CRS	MAIN CUSTODIAL	1/T19.70	IDF F110	
GATE.01	CRS	COURTYARD	3/T19.72	IDF A103	
GATE.02	CRS	COURTYARD	3/T19.72	IDF A103	
MVI.01	MVI	RECEPTION	--	MDF B117	
MVI.02	MVI	OFFICE	--	IDF F110	
PB.01	PB	RECEPTION	2/T19.72	MDF B117	
FF2					
B203	CRS	IDF	1/T19.70	MDF B210	
D202	CRS	IDF	1/T19.70	MDF B210	

VIDEO SURVEILLANCE SCHEDULE

DESIGNATOR	TYPE	DEVICE MOUNTING DETAIL	MOUNTING HEIGHT	PANEL LOCATION	COMMENTS
T1.0.01	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.02	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.03	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.04	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.05	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.06	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.07	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.08	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.09	IN	1/T19.81	14' 0" AFG		MDF B117
T1.0.10	IN	1/T19.81	14' 0" AFG		MDF B117
T1.1A.01	IN	2/T19.80	10' 0" AFF	IDF A103	
T1.1A.02	IN	2/T19.80	10' 0" AFF	IDF A103	
T1.1A.03	IN	2/T19.80	9' 0" AFF	IDF A103	
T1.1A.04	IN	2/T19.80	8' 6" AFG	IDF A103	
T1.1A.05	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.06	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.07	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.08	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.09	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.10	IN	4/T19.80	10' 0" AFG	IDF A103	
T1.1A.11	IN	3/T19.80	10' 0" AFG	IDF A103	
T1.1B.01	IN	3/T19.80	10' 0" AFF	MDF B117	
T1.1B.02	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1B.03	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1C.01	IN	4/T19.80	10' 0" AFG	MDF B117	
T1.1C.02	IN	3/T19.80	8' 6" AFF	MDF B117	
T1.1C.03	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.04	IN	2/T19.80	9' 0" AFF	MDF B117	
T1.1C.05	IN	2/T19.80	9' 0" AFF	MDF B117	
T1.1C.06	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.07	IN	3/T19.80	10' 6" AFG	MDF B117	
T1.1C.08	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.09	IN	4/T19.80	10' 0" AFG	MDF B117	
T1.1C.10	IN	4/T19.80	10' 0" AFG	MDF B117	
T1.1C.11	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.11	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.12	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.13	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1C.14	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1C.15	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1D.01	IN	2/T19.80	9' 0" AFF	IDF F110	
T1.1D.02	IN	2/T19.80	9' 0" AFF	IDF F110	
T1.1D.03	IN	3/T19.80	9' 6" AFG	IDF F110	
T1.1D.04	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1D.05	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1D.06	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1E.01	IN	3/T19.80	8' 6" AFF	MDF B117	
T1.1E.02	IN	4/T19.80	10' 6" AFG	MDF B117	
T1.1E.03	IN	3/T19.80	9' 6" AFG	MDF B117	
T1.1E.04	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1E.05	IN	3/T19.80	10' 0" AFG	MDF B117	
T1.1F.01	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1F.02	IN	2/T19.80	9' 6" AFF	IDF F110	
T1.1F.03	IN	2/T19.80	9' 6" AFF	IDF F110	
T1.1F.04	IN	3/T19.80	9' 0" AFF	IDF F110	
T1.1F.05	IN	3/T19.80	9' 0" AFF	IDF F110	
T1.1F.06	IN	3/T19.80	9' 0" AFF	IDF F110	
T1.1F.07	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1F.08	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1F.09	IN	4/T19.80	10' 0" AFG	IDF F110	
T1.1F.10	IN	4/T19.80	10' 0" AFG	IDF F110	
T1.1F.11	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1F.12	IN	4/T19.80	10' 0" AFG	IDF F110	
T1.1F.13	IN	3/T19.80	10' 0" AFG	IDF F110	
T1.1F.14	IN	4/T19.80	10' 0" AFG	IDF F110	
T1.1F.15	IN	4/T19.80	10' 0" AFG	IDF F110	
T1.2B.01	IN	3/T19.80	11' 0" AFF	MDF B210	
T1.2C.01	IN	2/T19.80	8' 6" AFF	MDF B210	
T1.2D.01	IN	3/T19.80	9' 6" AFF	MDF B210	
T1.2E.01	IN	2/T19.80	8' 6" AFF	MDF B210	
T2.1A.50	IN	1/T19.80	CEILING	IDF A103	
T2.1A.51	IN	1/T19.80	CEILING	IDF A103	
T2.1B.50	IN	1/T19.80	CEILING	MDF B117	
T2.1B.51	IN	1/T19.80	CEILING	MDF B117	
T2.1B.52	IN	1/T19.80	CEILING	MDF B117	
T2.1B.53	IN	1/T19.80	CEILING	MDF B117	
T2.1B.54	IN	1/T19.80	CEILING	MDF B117	
T2.1B.55	IN	1/T19.80	CEILING	MDF B117	
T2.1B.56	IN	1/T19.80	CEILING	MDF B117	
T2.1B.57	IN	1/T19.80	CEILING	MDF B117	
T2.1B.58	IN	1/T19.80	CEILING	MDF B117	
T2.1C.50	IN	1/T19.80	CEILING	MDF B117	
T2.1C.51	IN	1/T19.80	CEILING	MDF B117	
T2.1C.53	IN	1/T19.80	CEILING	MDF B117	
T2.1D.50	IN	1/T19.80	CEILING	MDF B117	
T2.1D.51	IN	1/T19.80	CEILING	MDF B117	
T2.1D.52	IN	1/T19.80	CEILING	MDF B117	
T2.1D.53	IN	1/T19.80	CEILING	MDF B117	
T2.1D.54	IN	1/T19.80	CEILING	MDF B117	
T2.1D.55	IN	1/T19.80	CEILING	MDF B117	
T2.1D.56	IN	1/T19.80	CEILING	MDF B117	
T2.1D.57	IN	1/T19.80	UNDERSIDE OF AWNING	IDF F110	
T2.1D.58	IN	1/T19.80	CEILING	IDF F110	
T2.1D.59	IN	1/T19.80	CEILING	MDF B117	
T2.1D.60	IN	1/T19.80	CEILING	MDF B117	
T2.1D.61	IN	1/T19.80	CEILING	MDF B117	
T2.1D.62	IN	1/T19.80	CEILING	MDF B117	
T2.1D.63	IN	1/T19.80	CEILING	MDF B117	
T2.1D.64	IN	1/T19.80	CEILING	MDF B117	
T2.1D.65	IN	1/T19.80	CEILING	MDF B117	
T2.1D.66	IN	1/T19.80	CEILING	MDF B117	
T2.1D.67	IN	1/T19.80	CEILING	MDF B117	
T2.1D.68	IN	1/T19.80	CEILING	MDF B117	
T2.1E.50	IN	1/T19.80	CEILING	MDF B117	
T2.1E.51	IN	1/T19.80	CEILING	MDF B117	
T2.1E.52	IN	1/T19.80	CEILING	MDF B117	
T2.1F.50	IN	1/T19.80	CEILING	IDF F110	
T2.1F.51	IN	1/T19.80	UNDERSIDE OF AWNING	IDF F110	
T2.1F.52	IN	1/T19.80	UNDERSIDE OF AWNING	IDF F110	
T2.1F.53	IN	1/T19.80	CEILING	IDF F110	
T2.1F.54	IN	1/T19.80	CEILING	IDF F110	
T2.1F.55	IN	1/T19.80	CEILING	IDF F110	
T2.1F.56	IN	1/T19.80	CEILING	IDF F110	
T2.1F.57	IN	1/T19.80	CEILING	IDF F110	
T2.1F.58	IN	1/T19.80	CEILING	IDF F110	
T2.2B.50	IN	1/T19.80	CEILING	MDF B210	
T2.2C.50	IN	1/T19.80	CEILING	MDF B210	
T2.2C.51	IN	1/T19.80	CEILING	MDF B210	
T2.2C.52	IN	1/T19.80	CEILING	MDF B210	
T2.2D.50	IN	1/T19.80	CEILING	MDF B210	
T2.2E.50	IN	1/T19.80	CEILING	MDF B210	
T2.2E.51	IN	1/T19.80	CEILING	MDF B210	

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Joshua Thomas
BICSI ID # 160773
EXPIRES 12-31-27
RCDD
03.12.2026

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SECURITY DEVICE SCHEDULE

VOLUME 2

Job No. 00802-04-01	Sheet No. T19.10
Drawn By: WJHW	
Date: 07.15.26	

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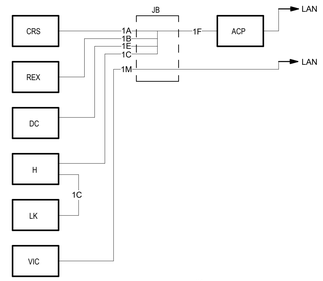
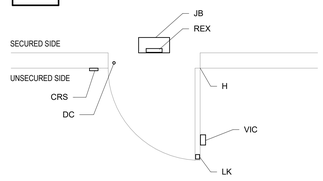
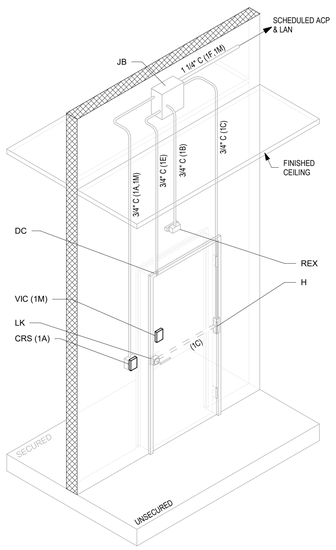
SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08 AND DIVISION 27.
4. VIDEO INTERCOM TO BE INTEGRATED INTO ACCESS CONTROL SYSTEM TO ALLOW FOR REMOTE UNLOCK CAPABILITES.



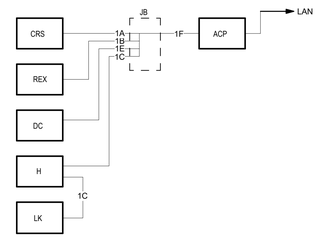


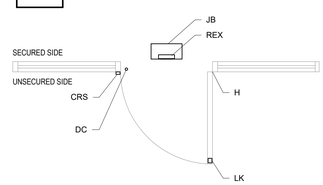


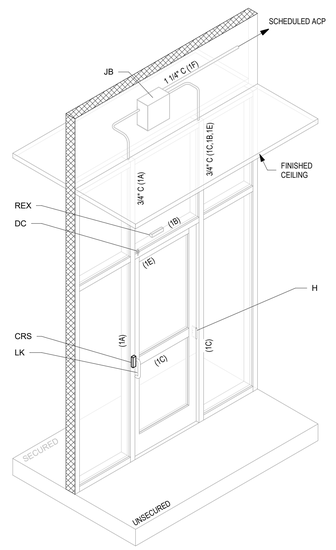
3 CARD READER, VIDEO INTERCOM - SINGLE DOOR
NTS

SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.



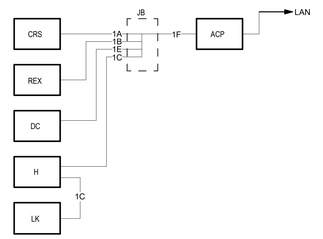


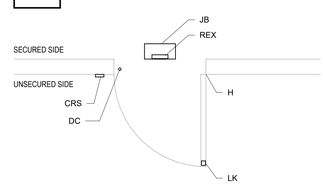


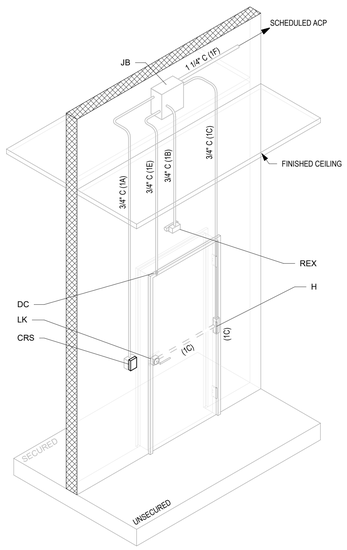
2 CARD READER - STOREFRONT, SINGLE DOOR
NTS

SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.







1 CARD READER - SINGLE DOOR
NTS

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Joshua Thomas
BICSI ID # 160773
EXPIRES 12-31-27
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ACCESS CONTROL DETAILS

VOLUME 2

Job No. 00802-04-01	Sheet No. T19.70
Drawn By: WJHW	
Date: 07.15.26	

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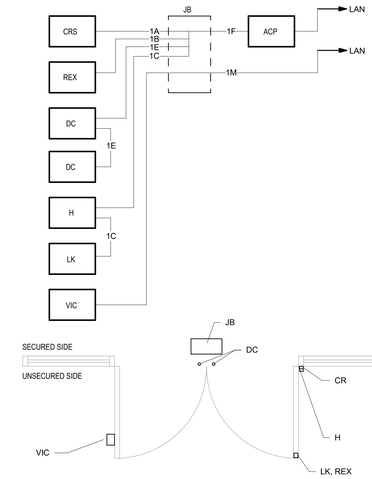
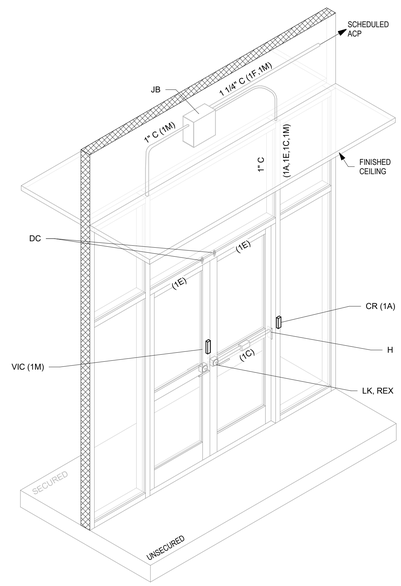
SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. VIDEO INTERCOM TO BE INTEGRATED INTO ACCESS CONTROL SYSTEM TO ALLOW FOR REMOTE UNLOCK CAPABILITIES.
4. COORDINATE WITH DIVISION 08, DIVISION 26, AND DIVISION 27.

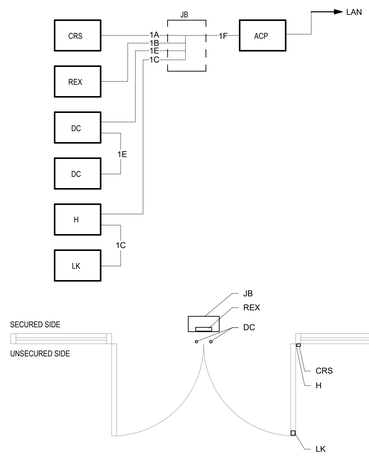


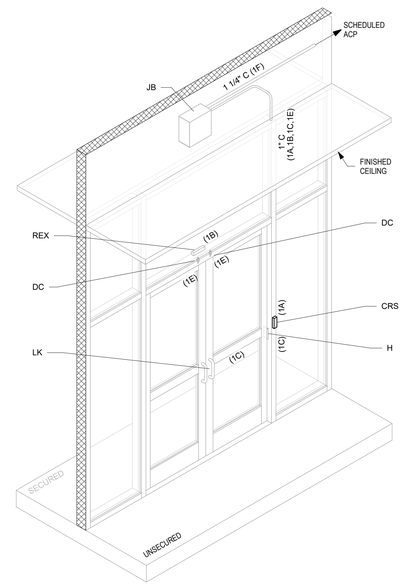


3 CARD READER, VIDEO INTERCOM - STOREFRONT, DOUBLE DOOR
NTS

SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.

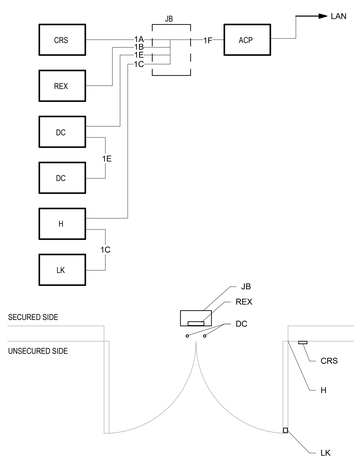


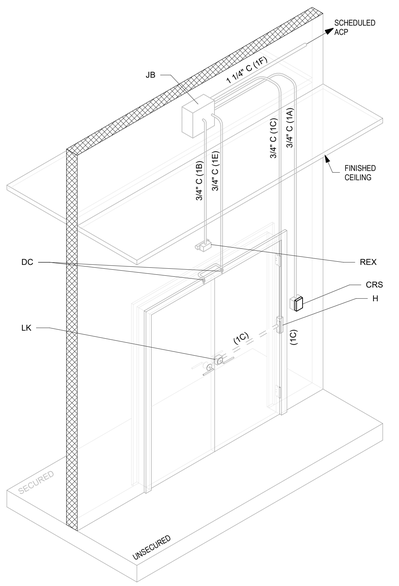


2 CARD READER - STOREFRONT, DOUBLE DOOR
NTS

SEQUENCE OF OPERATION:

1. VALID CARD READ FROM UNSECURED SIDE RELEASES THE DOOR FOR ENTRY AND SHUNTS THE DOOR CONTACT.
2. EGRESS FROM THE SECURED SIDE ACTIVATES THE REQUEST TO EXIT SENSOR AND SHUNTS THE DOOR CONTACT.
3. COORDINATE WITH DIVISION 08.





1 CARD READER - DOUBLE DOOR
NTS

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
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ACCESS CONTROL DETAILS

VOLUME 2

Job No.	Sheet No.
03802-04-01	T19.71
Drawn By: WJH/W	
Date: 07.15.26	

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BICSI
Joshua Thomas
BICSI ID # 160773
EXPIRES 12-31-27
RCDD
03.12.2026

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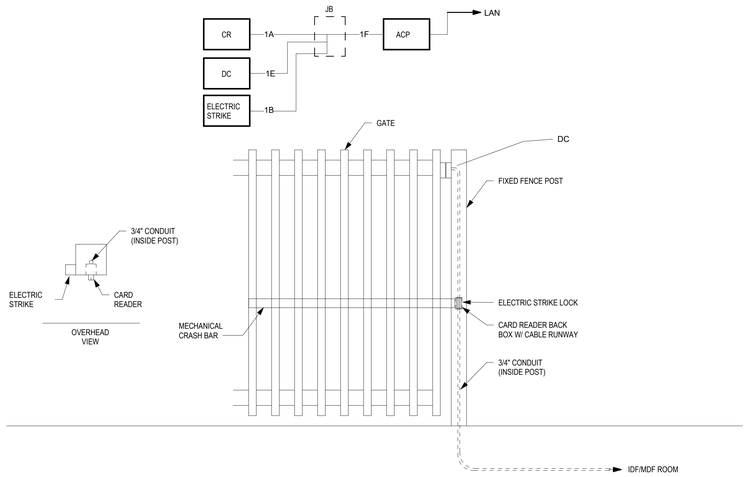
ACCESS CONTROL DETAILS

VOLUME 2

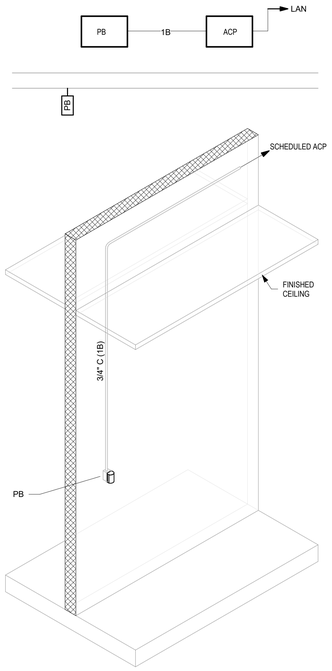
Job No. 00802-04-01	Sheet No. T19.72
Drawn By: WJHW	
Date: 07.15.26	

SEQUENCE OF OPERATION

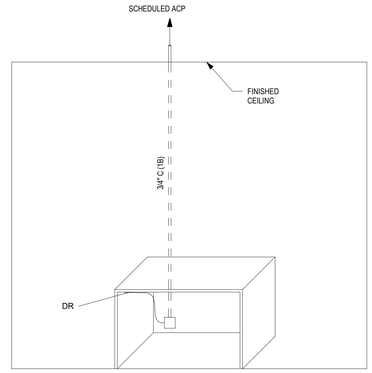
1. VALID CARD READ RELEASES ELECTRIFIED STRIKE ALLOWING GATE TO BE PUSH/PULLED OPEN.



3 PEDESTRIAN GATE - CARD READER, ELECTRIC STRIKE
NTS



2 PANIC BUTTON - WALL MOUNT
NTS



1 DOOR RELEASE BUTTON - DESK MOUNT
NTS

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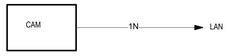
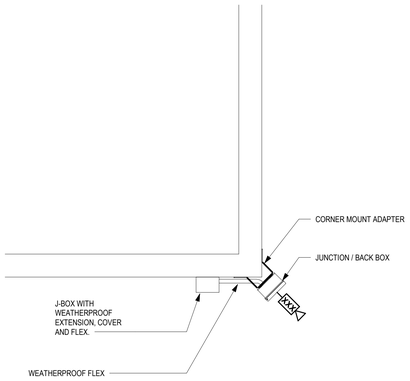
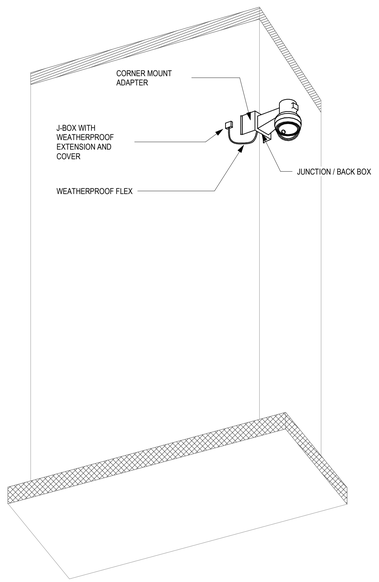
SEQUENCE OF OPERATION:

1. DATA FROM IDF POE SWITCH.







4 CAMERA DETAIL - CORNER MOUNT W/ ADAPTER
NTS

SEQUENCE OF OPERATION:

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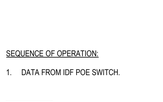

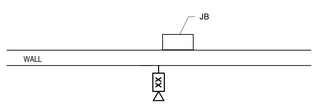

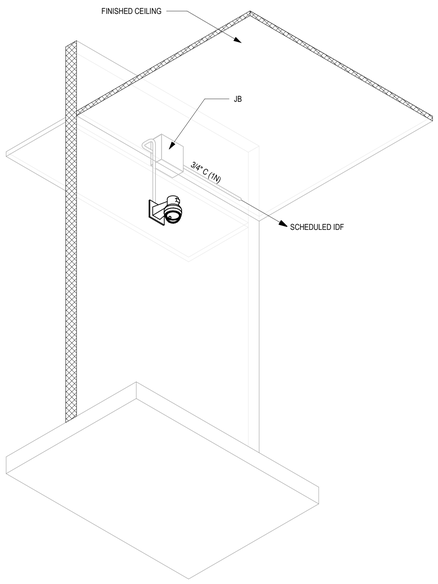

3 CAMERA DETAIL - WALL MOUNT W/ ADAPTOR
NTS

SEQUENCE OF OPERATION:

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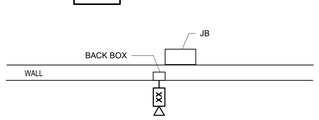
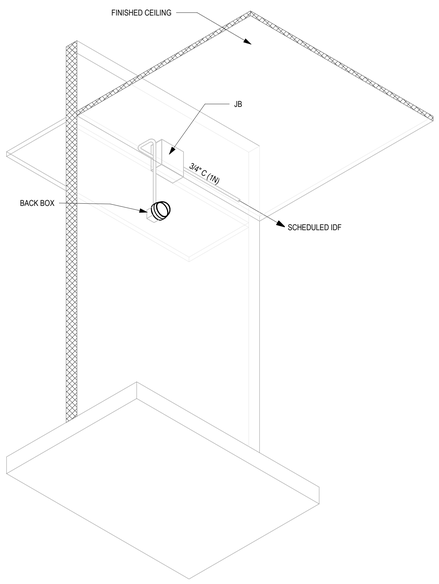


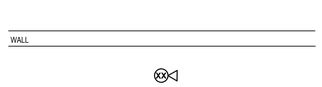


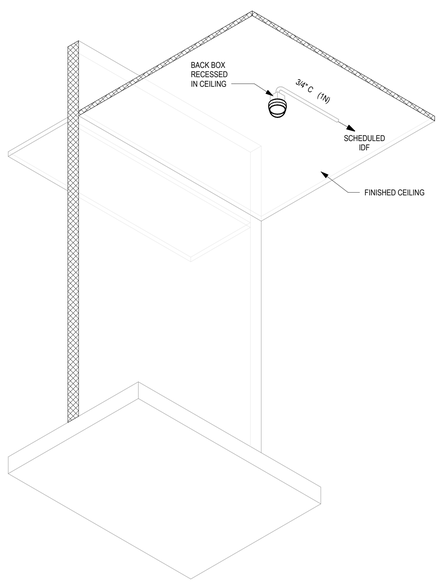
2 CAMERA DETAIL - WALL MOUNT
NTS

SEQUENCE OF OPERATION:

1. DATA FROM IDF POE SWITCH.







1 CAMERA DETAIL - CEILING MOUNT
NTS

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Joshua Thomas
BICSI ID # 160773
EXPIRES 12-31-27
RCDD
03.12.2026

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SECURITY CAMERA DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	T19.80
Drawn By: WJHW	
Date: 07.15.26	

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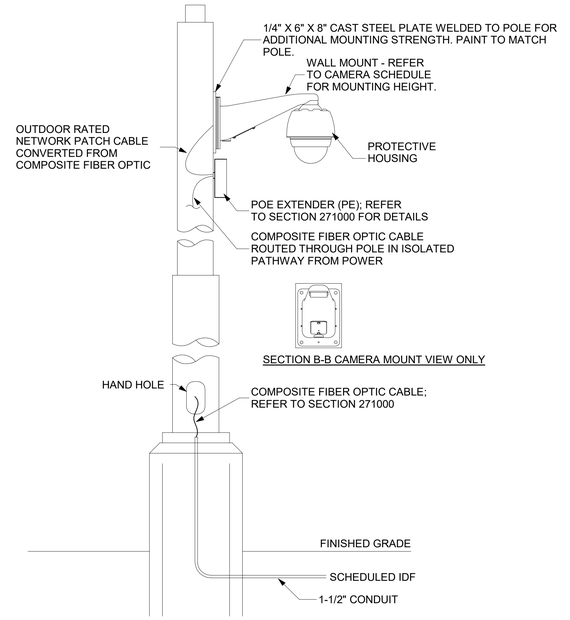

1 CAMERA DETAIL - POLE MOUNT, FIBER POWER
NTS

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

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SECURITY CAMERA DETAILS

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Job No.	Sheet No.
00802-04-01	T19.81
Drawn By: WJHW	
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GENERAL ABBREVIATIONS

--	NOT APPLICABLE
@	AT
3DC	3D CONTROLLER
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
C	CONDUIT
CAT	CATEGORY CABLE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DC	DIRECT CURRENT
DC	DOWNSTAGE CENTER
DEG	DEGREES
DEMO	DEMOLITION
DFP	DIRECTOR'S FLOOR POCKET
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSTAGE
DSL	DOWNSTAGE LEFT
DSR	DOWNSTAGE RIGHT
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
ESW	ETHERNET SWITCH
EXIST	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FINISHED OPENING
FOH	FRONT OF HOUSE
FPB	FIBER OPTIC PATCHBAY
FPM	FEET PER MINUTE
FT	FOOT, FEET
FV	FIELD VERIFY
GND	GROUND
GA	GAUGE
H	HEIGHT
HL	HOUSE LEFT
HMP	HOUSE MANAGER POSITION
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HOUSE RIGHT
HZ	HERTZ
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
JBD	JUNCTION BOX - DATA
JP	JUNCTION BOX - SYSTEM POWER
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT/RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LF	LINEAR FEET
LTG	LIGHTING
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NET	NETWORK
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PRIMARY
P/O	PART OF
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
PROC	PROCESSOR
PRH	PROJECT RECEPTACLE HEIGHT
PRX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSF	POUNDS PER SQUARE FOOT
PSH	PROJECT SWITCH HEIGHT
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
S	SURFACE, SECONDARY
SCS	STRUCTURED CABLING SYSTEM
SQFT	SQUARE FEET
SIM	SIMILAR
SL	STAGE LEFT
SMFO	SINGLE MODE FIBER OPTIC CABLE
SMP	STAGE MANAGER POSITION
SPEC	SPECIFICATION
SQ	SQUARE
SR	STAGE RIGHT
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SUSP	SUSPEND
TBD	TO BE DETERMINED
THRU	THROUGH
TYP	TYPICAL
UC	UPSTAGE CENTER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UPSTAGE
USL	UPSTAGE LEFT
USR	UPSTAGE RIGHT
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

AUDIO VISUAL ABBREVIATIONS

--	NOT APPLICABLE
ADA	AUDIO DISTRIBUTION AMPLIFIER
AES	AUDIO ENGINEERING SOCIETY
ALS	ASSISTED LISTENING SYSTEM
AMP	AMPLIFIER
ANT	ANTENNAE
ANT DA	ANTENNA DISTRIBUTION AMPLIFIER
APB	AUDIO PATCH BAY
AV	AUDIO VIDEO
AVS	AUDIO VIDEO SWITCHER
BR	BLU-RAY DISC PLAYER
BDR	BLU-RAY DISC RECORDER
BGM	BACKGROUND MUSIC PLAYER
CAM	CAMERA
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CCU	CAMERA CONTROL UNIT
CDP	COMPACT DISC PLAYER
CG	CHARACTER GENERATOR
CONV	CONVERTER
CU	COLLABORATION UNIT
DA	DISTRIBUTION AMPLIFIER
DAN	DIGITAL AUDIO NETWORK
DM	DIGITAL MEDIA
DM-MTX	DIGITAL MEDIA MATRIX
DMP	DIGITAL MEDIA PLAYER
DMPS	DIGITAL MEDIA PRESENTATION SWITCHER
DMR	DIGITAL MEDIA RECORDER
DMRX	DIGITAL MEDIA RECEIVER / DECODER
DMTX	DIGITAL MEDIA TRANSMITTER / ENCODER
DMU	DIGITAL MESSAGE UNIT
DOC CAM	DOCUMENT CAMERA
DP	DISPLAY PORT
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DSP	DIGITAL SIGNAL PROCESSOR
DVE	DIGITAL VIDEO EFFECTS
DVR	DIGITAL VIDEO RECORDER
EBU	EUROPEAN BROADCASTING UNION
EQ	EQUALIZER
FC	FORMAT CONVERTER
FPM	FLAT PANEL MONITOR
FORX	FIBER OPTIC RECEIVER
FOTX	FIBER OPTIC TRANSMITTER
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE
HDRX	HDMI RECEIVER
HDSDI	HD SERIAL DIGITAL INTERFACE
HDTX	HDMI TRANSMITTER
ICOM	INTERCOM
IFB	INTERRUPTED FOLDBACK
IPTV	INTERNET PROTOCOL TELEVISION
JBA	JUNCTION BOX - AUDIO
JBC	JUNCTION BOX - CONTROL
JBE	JUNCTION BOX - ENG TRUCKS
JBL	JUNCTION BOX - AUDIO LINE LEVEL
JBM	JUNCTION BOX - AUDIO MIC LEVEL
JBR	JUNCTION BOX - RADIO
JBS	JUNCTION BOX - SPEAKER
JBT	JUNCTION BOX - BROADCAST
JBV	JUNCTION BOX - VIDEO
KVM	KEYBOARD VIDEO MOUSE
LA	LINE AMPLIFIER
LIM	LIMITER
LL	LINE LEVEL
MATV	MASTER ANTENNA TELEVISION
MIC	MICROPHONE
MICPRE	MICROPHONE PREAMP
MIX	MIXER
ML	MICROPHONE LEVEL
MOD	MODULATOR
MON	MONITOR / VIDEO DISPLAY
MTR	MULTITRACK PLAYER/RECORDER
MTX	MATRIX
NG	NOISE GENERATOR
PA	PUBLIC ADDRESS
PAD	AUDIO ATTENUATOR
PEQ	PARAMETRIC EQUALIZER
PSP	POWERED SPEAKER
PTZ	PAN/TILT/ZOOM
REC	RECORDER
SATRX	SATELLITE RECEIVER
SB	SCOREBOARD
SC	SCAN CONVERTER
SDI	SERIAL DIGITAL INTERFACE
SPDT	SINGLE POLE DOUBLE THROW
SPG	SYNC PULSE GENERATOR
SPL	SPLITTER
SPK	SPEAKER
SPLIT	MICROPHONE SPLITTER
SPST	SINGLE POLE SINGLE THROW
STREAM	DIGITAL VIDEO STREAMING
SUM	AUDIO SUMMING DEVICE
SW	SWITCHER
TD	THROW DISTANCE
TP	TOUCH PANEL
TV	TELEVISION
VBS	VIDEO BURST SYNC
VC	VOLUME CONTROL
VCA	VOLTAGE CONTROLLED AMPLIFIER
VDA	VIDEO DISTRIBUTION AMPLIFIER
VGA	VIDEO GRAPHICS ARRAY
VP	VIDEO PROJECTOR
VPB	VIDEO PATCH BAY
VS	VECTOR SCOPE
VSG	VIDEO SYNC GENERATOR
VSR	VIDEO SERVER
VSW	VIDEO SWITCH
VTC	VIDEO TELECONFERENCING SYSTEM
VWP	VIDEO WALL PROCESSOR
WFM	WAVEFORM MONITOR
WMS	WIRELESS MICROPHONE SYSTEM
WTX	WIRELESS TRANSMITTER
XFMR	TRANSFORMER
XOVR	CROSSOVER

ROUGH-IN BOX SCHEDULE

TYPE 1 RECESSED: 1-GANG BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 2 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 3 RECESSED: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 3-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 4 RECESSED: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 4-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 5 RECESSED: 5" SQUARE BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

TYPE 12 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE A JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

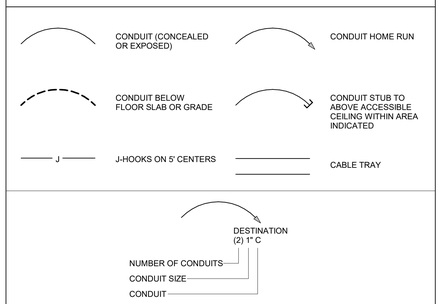
TYPE B JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE C JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS

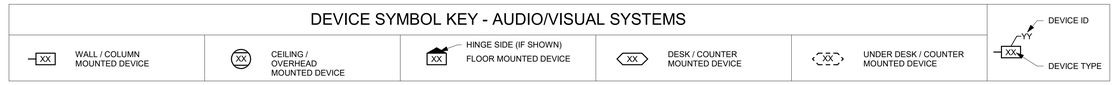
CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 3/4 INCH TRADE SIZE.
6. SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE ¾ INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
7. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
10. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
13. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
14. PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS ¼ THE LENGTH.
15. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES AND PULL BOXES WITHOUT FACEPLATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1", "ML".
16. ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
17. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
18. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
19. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
20. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
21. IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
22. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
23. REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
24. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

PATHWAY DISTRIBUTION



DEVICE SYMBOL KEY - AUDIO/VISUAL SYSTEMS



SYMBOL LEGEND - AUDIO/VISUAL SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
ACP	ATHLETIC CONTROL PANEL	TYPE C (12"x12"x6")	ALDF1212W	4'-0" TO TOP OF BOX; REF DETAIL	--	--	REF DETAILS IN AV11 SERIES	REF PLANS
ANT	ANTENNA PLATE	TYPE 2	2-GANG	REF ELEVATIONS	--	--	--	REF PLANS
AV2	AV PLATE	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
AV4	AV PLATE	TYPE 4	4-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
DB	DISPLAY LOCATION	TYPE 2	2-GANG	REF ELEVATIONS	--	--	PROVIDE BRUSH GROMMET FOR CABLE PASS THROUGH	REF PLANS AND DETAILS
FB	FLOOR BOX	CUSTOM	--	--	--	--	COORDINATE WITH ELECTRICAL REQUIREMENTS	REF PLANS
JBR	JUNCTION BOX - RACK	TYPE A (12"x12"x4")	--	REF ELEVATIONS/DETAILS	--	--	--	REF PLANS
M1	MICROPHONE PLATE	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
M2	MICROPHONE PLATE	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
PS	PROJECTION SCREEN	TYPE 1	1-GANG	REF ELEVATIONS/DETAILS	FLUSH IN CEILING	--	--	REF PLANS
TFP	TECHNICAL FACILITY PANEL	TYPE A (10"x10"x4")	--	2'-0" AFF	--	--	--	REF PLANS
VP	VIDEO PROJECTOR LOCATION	SEE DEVICE NOTES	--	--	FLUSH IN CEILING	--	PROVIDE NIGEL B DESIGN NB-PEBPM POLE MOUNT PLENUM ENCLOSURE	

LEGEND NOTES - AUDIO/VIDEO SYSTEMS

1 PROVIDE HOFFMAN PAINTED STEEL TYPE 1 SCREW COVER PULL BOX NO LESS THAN 12" W X 12" H X 4" D UNLESS NOTED OTHERWISE. SIZE JUNCTION BOX TO NUMBER AND SIZE OF CONDUIT. PROVIDE 3/4" VOID FREE AC PLYWOOD WITH TWO COATS FIRE RETARDANT WHITE PAINT ON BACK WALL OF JUNCTION BOX FROM SIDEWALL TO SIDEWALL. A SINGLE WIRING TROUGH WILL NOT BE ACCEPTABLE AS A REPLACEMENT TO/FOR INDIVIDUAL JUNCTION BOXES.

2 CRITICAL DIMENSIONS ARE NOTED IN DOCUMENTATION. FOR ANY DIMENSION THAT IS NOT PROVIDED, FIELD COORDINATE FINAL LOCATION.

3 FIELD COORDINATE PLATE/PANEL COVER SIZE BASED ON MOUNTING CONDITIONS. SURFACE MOUNTED ROUGH-IN PLATE/PANEL SHALL NOT EXTEND BEYOND THE ROUGH-IN BOX.

DEVICE SYMBOL KEY - SPEAKER SYSTEMS



SYMBOL LEGEND - SPEAKER SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
11	SPEAKER	TYPE 2	--	--	24' - 0" AFF TO SPEAKER GRILLE	--	--	REF PLANS
21	SPEAKER	TYPE 2	--	REF ELEVATIONS	--	--	--	REF PLANS
31	SPEAKER	TYPE 2	--	--	SURFACE MOUNT TO STRUCTURE	--	PROVIDE PROTECTIVE SPEAKER GUARD. REF. SPEC 27 41 16	REF PLANS

LEGEND NOTES - SPEAKER SYSTEMS

1 PROVIDE HOFFMAN PAINTED STEEL TYPE 1 SCREW COVER PULL BOX NO LESS THAN 12" W X 12" H X 4" D UNLESS NOTED OTHERWISE. SIZE JUNCTION BOX TO NUMBER AND SIZE OF CONDUIT. PROVIDE 3/4" VOID FREE AC PLYWOOD WITH TWO COATS FIRE RETARDANT WHITE PAINT ON BACK WALL OF JUNCTION BOX FROM SIDEWALL TO SIDEWALL. A SINGLE WIRING TROUGH WILL NOT BE ACCEPTABLE AS A REPLACEMENT TO/FOR INDIVIDUAL JUNCTION BOXES.

2 CRITICAL DIMENSIONS ARE NOTED IN DOCUMENTATION. FOR ANY DIMENSION THAT IS NOT PROVIDED, FIELD COORDINATE FINAL LOCATION.

3 FIELD COORDINATE PLATE/PANEL COVER SIZE BASED ON MOUNTING CONDITIONS. SURFACE MOUNTED ROUGH-IN PLATE/PANEL SHOULD NOT EXTEND BEYOND THE ROUGH-IN BOX.

5 COORDINATE EXACT LOCATION OF ALL CEILING LOUDSPEAKERS WITH ARCHITECTURAL DRAWINGS.

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FOR
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GENERAL NOTES AND LEGENDS

VOLUME 2

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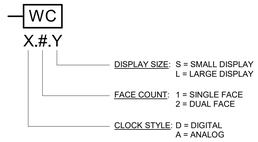
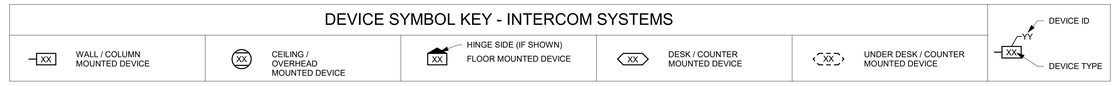
WALL CLOCK (WC) LEGEND



DEVICE SYMBOL KEY - INTERCOM SYSTEMS



SYMBOL LEGEND - INTERCOM SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS.
UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
ADM	CAMPUS INTERCOM ADMINISTATION CONSOLE	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
H	SPEAKER	TYPE 2	--	REF PLANS/KEYNOTES	--	--	--	REF PLANS
P1	SPEAKER	TYPE 2	--	--	FLUSH IN CEILING	--	--	REF PLANS
P2	SPEAKER	TYPE 2	--	--	FLUSH IN CEILING	--	--	REF PLANS
P3	SPEAKER	TYPE 2	--	10'-0" AFF	--	--	--	REF PLANS
WC1	WALL CLOCK	TYPE 2	--	8'-0" AFF	1' 0" BELOW CEILING	--	PROVIDE PROTECTIVE GUARD FOR DEVICES IN ATHLETIC SPACES. REF. SPEC 27 5123.13.	--
WC2	WALL CLOCK	TYPE 2	--	8'-0" AFF	1' 0" BELOW CEILING	--	REF SPEC FOR SIZE	--

LEGEND NOTES - INTERCOM SYSTEMS

1 HEIGHTS NOTED IN LEGEND ABOVE ARE IN REFERENCE TO THE ROUGH-IN BOX. REFERENCE DRAWINGS FOR LOUDSPEAKER LOCATIONS AND MOUNTING CONDITIONS

2 PROVIDE (1) TYPE ROUGH-IN BOX SURFACE MOUNTED TO STRUCTURE ABOVE FOR LOUDSPEAKERS MOUNTED IN HARD CEILINGS

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GENERAL NOTES AND LEGENDS

VOLUME 2

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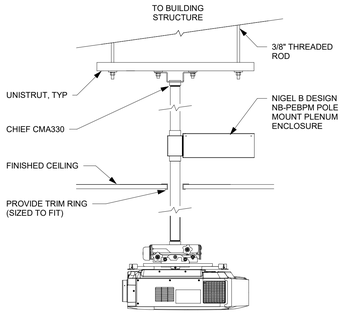
AV RACK SCHEDULE

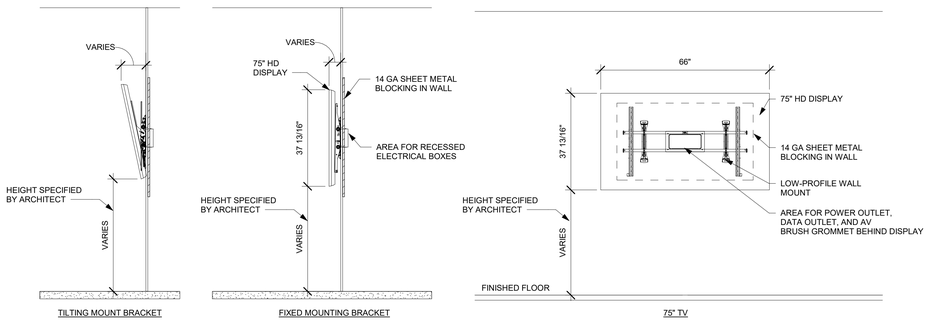
RACK DESIGNATOR	ROOM	RACK STYLE	TYPE #	RACK MOUNTING HEIGHT (AFF TO BOTTOM OF RACK)	JBR MOUNTING HEIGHT (AFF TO CENTER OF JBR)		DETAIL (SEE BELOW)	NOMINAL SIZE (RU)	NOMINAL DEPTH	OPTIONS	NOTES
					WALL RACK	FLOOR RACK					
ER-BND	BAND ROOM A122	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		
ER-CAF	SOUND F115	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		
ER-CHR	ORCHESTRA ROOM A118	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		
ER-GYM	GYMNASIUM F105	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		
ER-ORC	ORCHESTRA ROOM A118	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		
ER-SMP	PLATFORM F114	WALL MOUNTED	1	1' - 11 1/2"	4' - 0"		1/AV0.90	24	26"		

AV PROJECTION SCREEN SCHEDULE

SCREEN ID	IMAGE WIDTH	IMAGE HEIGHT	ASPECT RATIO	SCREEN TYPE	HEIGHT TO BOTTOM OF IMAGE	COMMENTS
PS-CAF	160"	90"	1.78	1	74"	



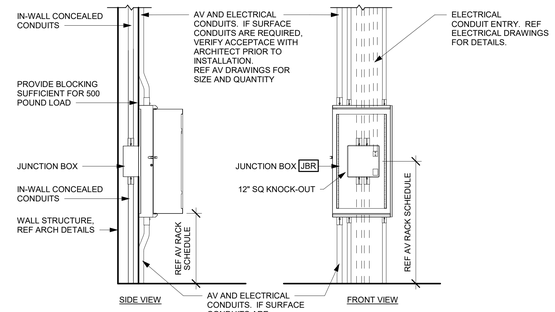
4 PROJECTOR CEILING MOUNTED DETAIL
1" = 1'-0"



3 TYP 75" WALL MOUNT
1/2" = 1'-0"

NOTES:
1. PROVIDE ISOLATED GROUND OUTLETS WITH GROUNDING SCHEME AS SHOWN.
2. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

2 RACK GROUND BAR DETAIL
1/2" = 1'-0"



1 WALL MOUNTED RACK DETAIL
1/2" = 1'-0"

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AUDIO-VIDEO EQUIPMENT DETAILS

VOLUME 2

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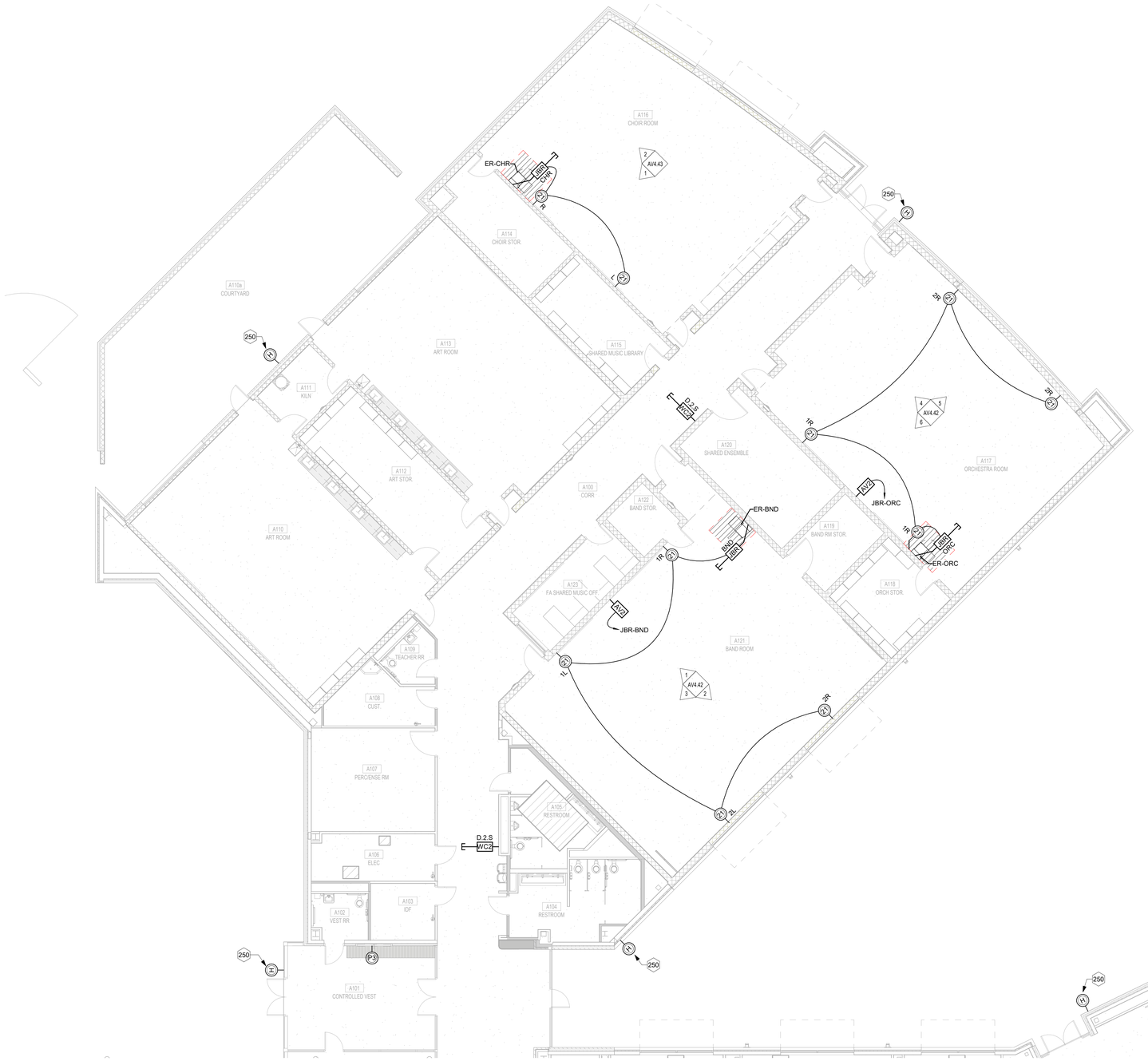
250 MOUNTING HEIGHT: 10'-0" AFF

KEYNOTES



1 FLOOR PLAN - LEVEL 01 - AREA A
1/8" = 1'-0"

PLAN

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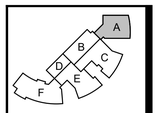

KEY PLAN - LEVEL 1
N.T.S.

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FLOOR PLAN - LEVEL 01 - AREA A

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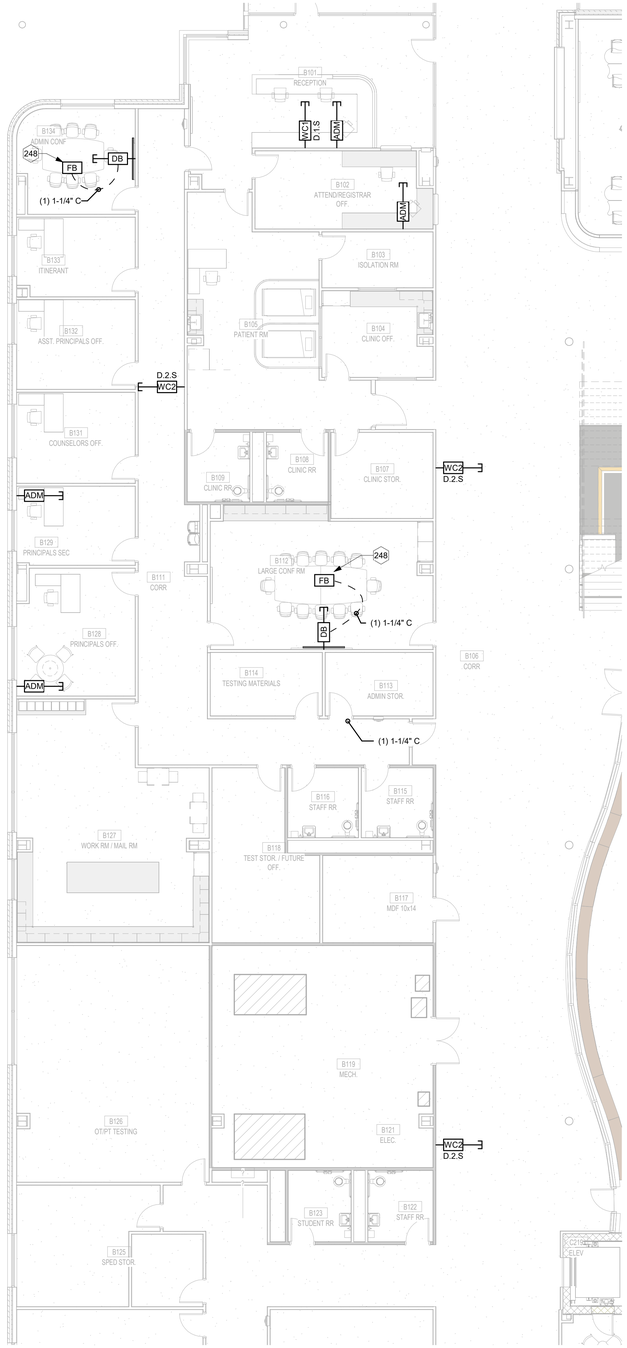
248 FLOORBOX PROVIDED BY DIVISION 26-0000

KEYNOTES



1 FLOOR PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

PLAN

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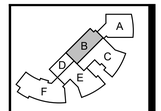

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FLOOR PLAN - LEVEL 01 - AREA B

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250 MOUNTING HEIGHT: 10'-0" AFF

KEYNOTES



1 FLOOR PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

PLAN

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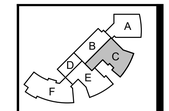
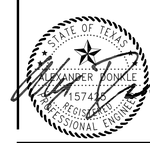


KEY PLAN - LEVEL 1
N.T.S.



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FLOOR PLAN - LEVEL 01 - AREA C

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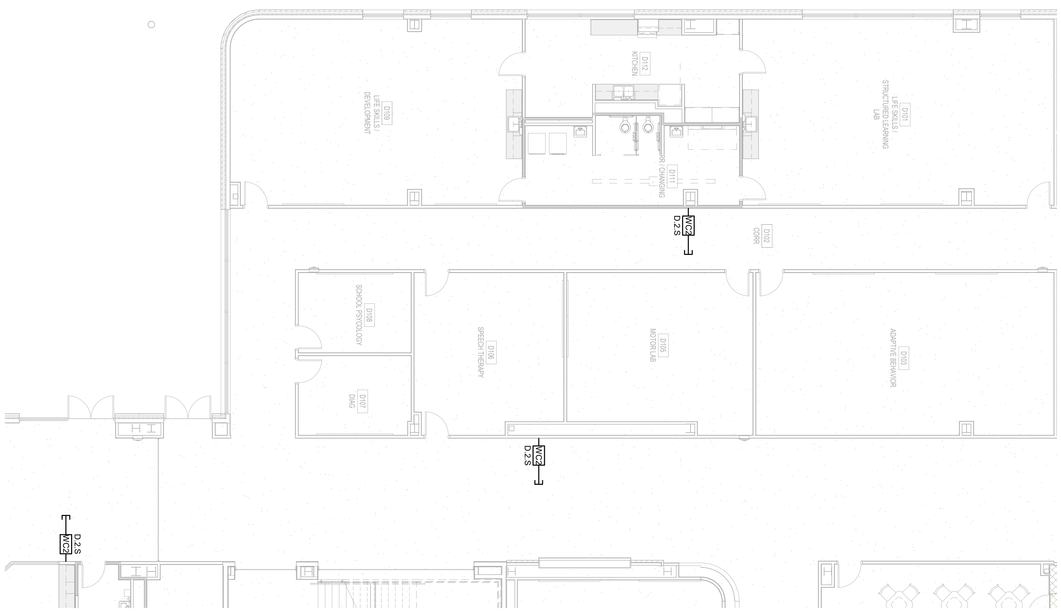

1 FLOOR PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN

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FLOOR PLAN - LEVEL 01 - AREA D

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KEY PLAN - LEVEL 1
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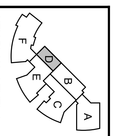

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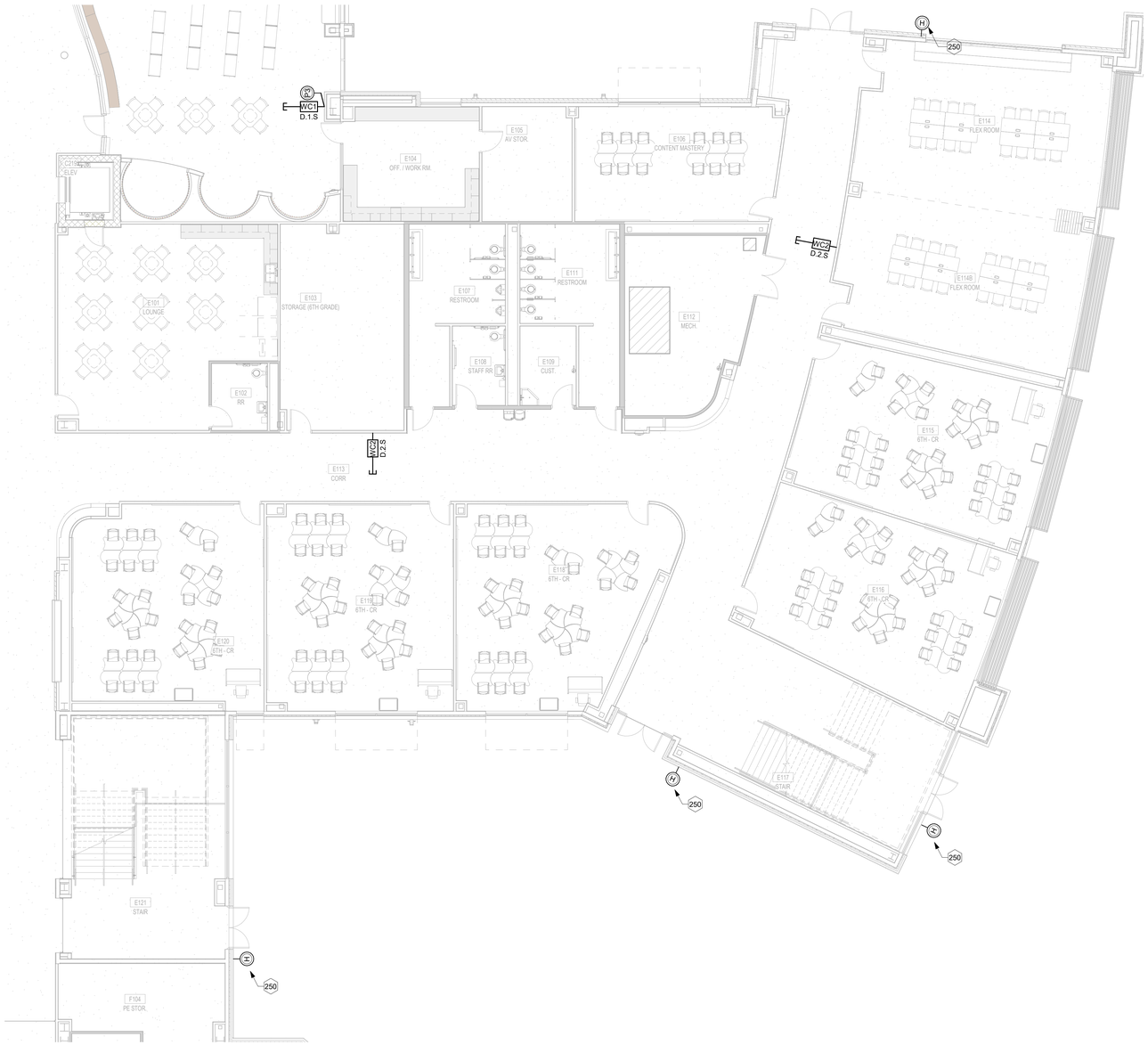
250 MOUNTING HEIGHT: 10'-0" AFF

KEYNOTES



1 FLOOR PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

PLAN

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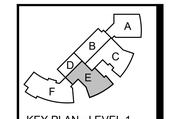

KEY PLAN - LEVEL 1
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FLOOR PLAN - LEVEL 01 - AREA E

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249 PROVIDE REVERSE ROLL PROJECTION SCREEN TO FACE AUDITORIUM
250 MOUNTING HEIGHT: 10'-0" AFF
251 MOUNTING HEIGHT: 12'-0" AFF
252 PROVIDE PROTECTIVE WIRE GUARD TO ALL WALL CLOCKS IN ATHLETIC AREAS - REF. 27 5123.13

KEYNOTES



1 FLOOR PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

PLAN NORTH

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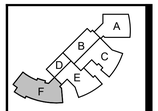

KEY PLAN - LEVEL 1
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FLOOR PLAN - LEVEL 01 - AREA F

VOLUME 2

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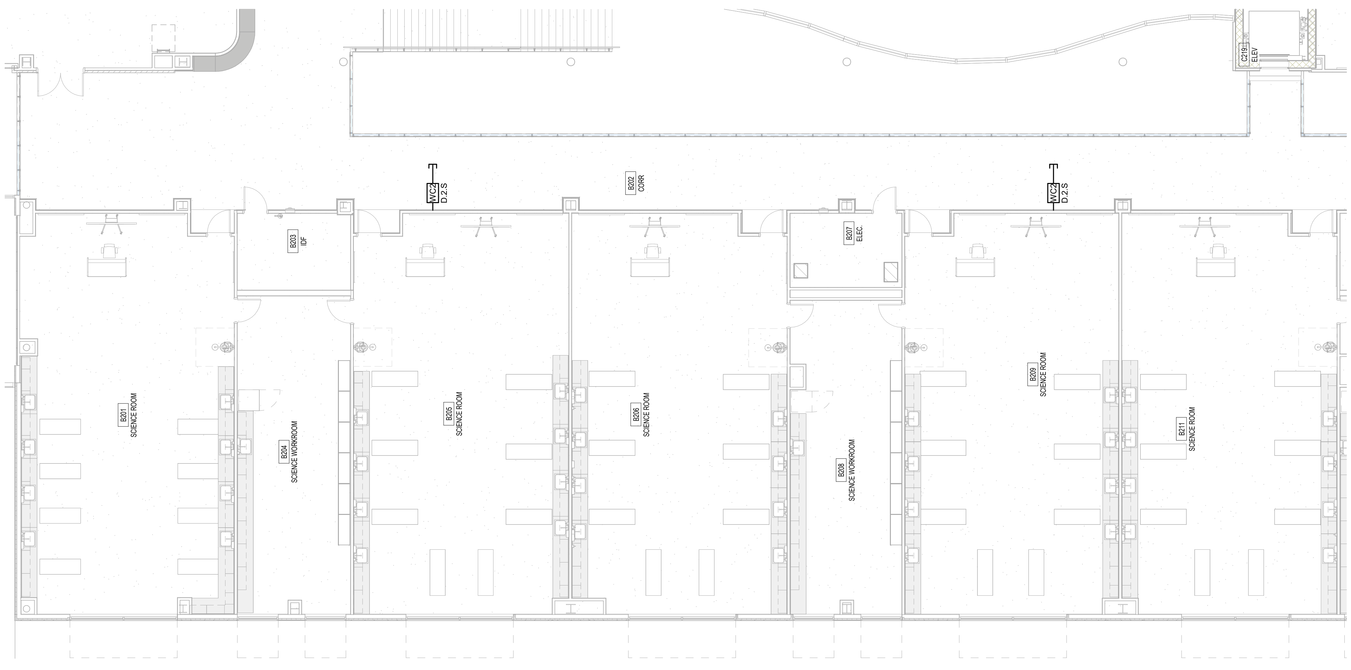

1 FLOOR PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

PLAN

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KEY PLAN - LEVEL 2
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FLOOR PLAN - LEVEL 02 - AREA B
VOLUME 2

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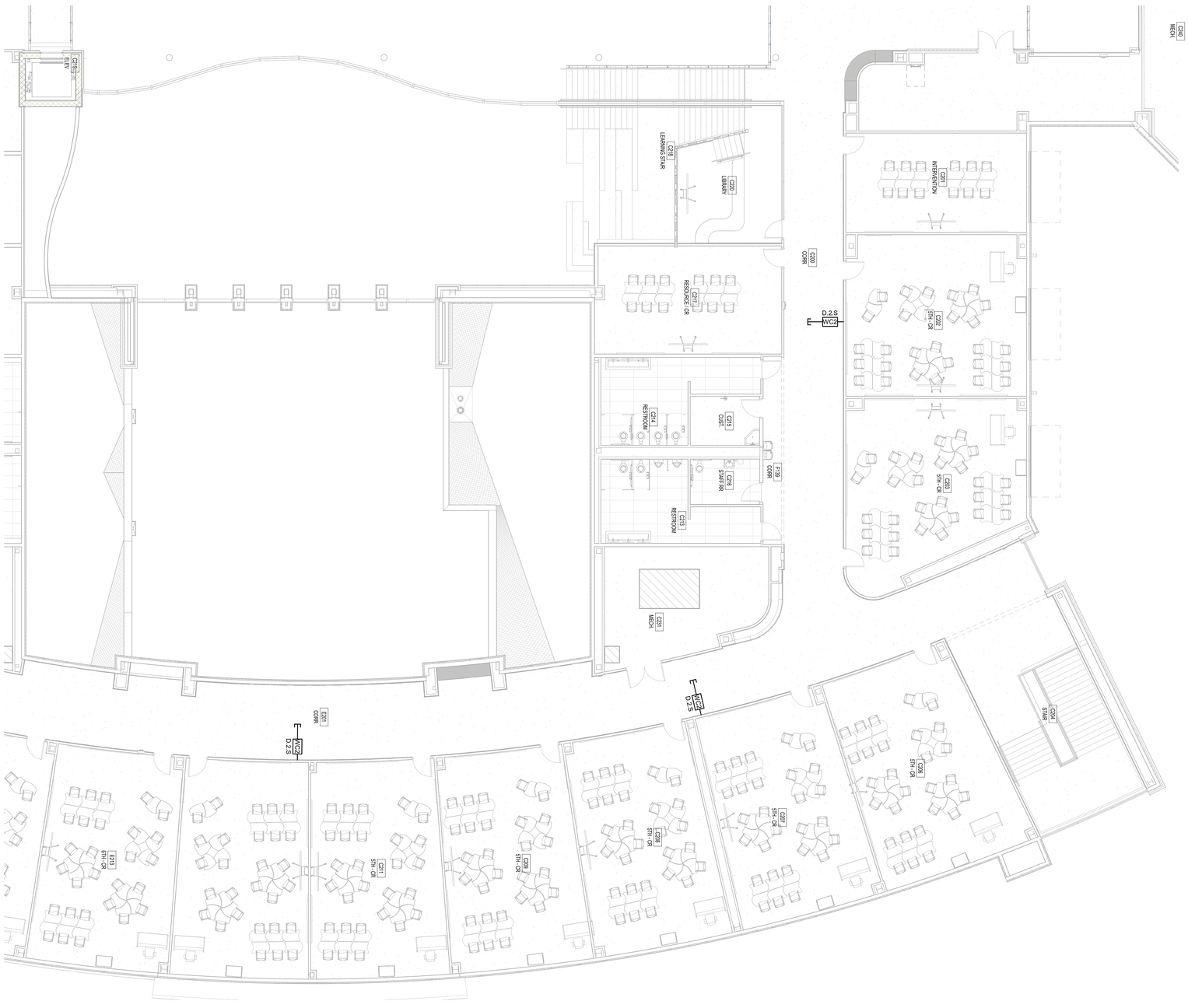

1 FLOOR PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

PLAN

Project:

TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

Revision / Date

KEY PLAN - LEVEL 2
N.T.S.

STATE OF TEXAS
ALEXANDER TONKLE
157416
REGISTERED PROFESSIONAL ENGINEER

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FLOOR PLAN - LEVEL 02 - AREA C

VOLUME 2

Job No. 00802-04-01
Drawn By: W.JHW
Date: 07.15.26
Sheet No. AV1.2C

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TOMBALL, TEXAS

KEY PLAN - LEVEL 2
N.T.S.

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ALEXANDER DONALD
15742
REGISTERED
PROFESSIONAL ENGINEER

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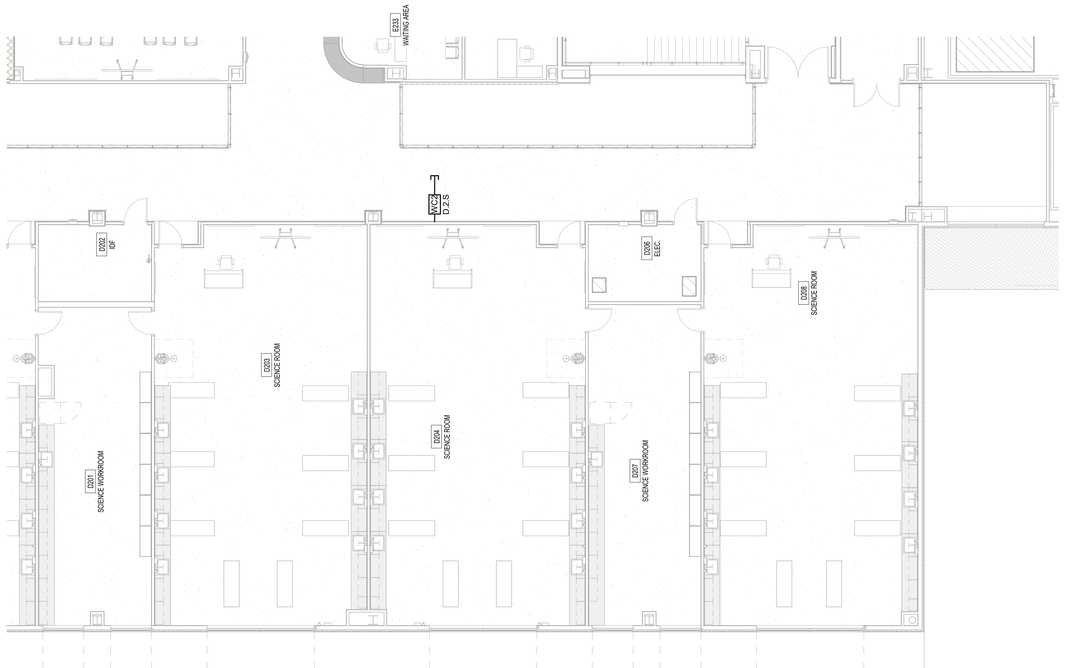
FLOOR PLAN - LEVEL 02 - AREA D

VOLUME 2

Job No. 00802-04-01
Drawn By: WJHW
Date: 07.15.26
Sheet No. AV1.2D



1 FLOOR PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN

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248 FLOORBOX PROVIDED BY DIVISION 26-0000

KEYNOTES



1 FLOOR PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

PLAN

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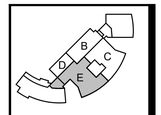
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



KEY PLAN - LEVEL 2
N.T.S.

STATE OF TEXAS
ALEXANDER BONKLE
157488
REGISTERED
PROFESSIONAL ENGINEER

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FLOOR PLAN - LEVEL 02 - AREA E

VOLUME 2

Job No. 00802-04-01	Sheet No. AV1.2E
Drawn By: WJHW	
Date: 07.15.26	

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KEY PLAN - LEVEL 1
NTS

STATE OF TEXAS
JAMES C. HUCKABEE
157-4
REGISTERED
PROFESSIONAL
ARCHITECT
SURVEYOR

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REFLECTED CEILING PLAN - LEVEL 01 - AREA A

VOLUME 2

Job No.	2509.0401
Drawn By:	VL/BV
Date:	07.15.26
Sheet No.	AV2.1A

PLAN



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KEY PLAN - LEVEL 1
N.T.S.

STATE OF TEXAS
ALEXANDER DONLEY
15742
REGISTERED PROFESSIONAL ENGINEER

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REFLECTED CEILING PLAN - LEVEL 01 - AREA B

VOLUME 2

Job No. 00802-04-01
Drawn By: WJHW
Date: 07.15.26
Sheet No. AV2.1B

PLAN



1 REFLECTED CEILING PLAN - LEVEL 01 - AREA B
1/8" = 1'-0"

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1 REFLECTED CEILING PLAN - LEVEL 01 - AREA C
1/8" = 1'-0"

PLAN

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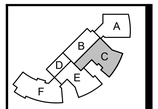

KEY PLAN - LEVEL 1
N.T.S.



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REFLECTED CEILING PLAN - LEVEL 01 - AREA C

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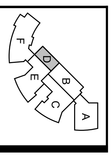
1 REFLECTED CEILING PLAN - LEVEL 01 - AREA D
1/8" = 1'-0"

PLAN



KEY PLAN - LEVEL 1
N.T.S.

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REFLECTED CEILING PLAN - LEVEL 01 - AREA D

VOLUME 2

Job No. 00802-04-01
Drawn By: WJHW
Date: 07.15.26

Sheet No. AV2.1D

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1 REFLECTED CEILING PLAN - LEVEL 01 - AREA E
1/8" = 1'-0"

PLAN

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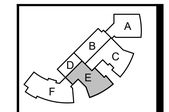

KEY PLAN - LEVEL 1
N.T.S.



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REFLECTED CEILING PLAN - LEVEL 01 - AREA E

VOLUME 2

Job No.	Sheet No.
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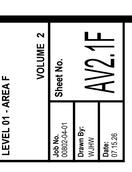
KEY PLAN - LEVEL 1
NTS



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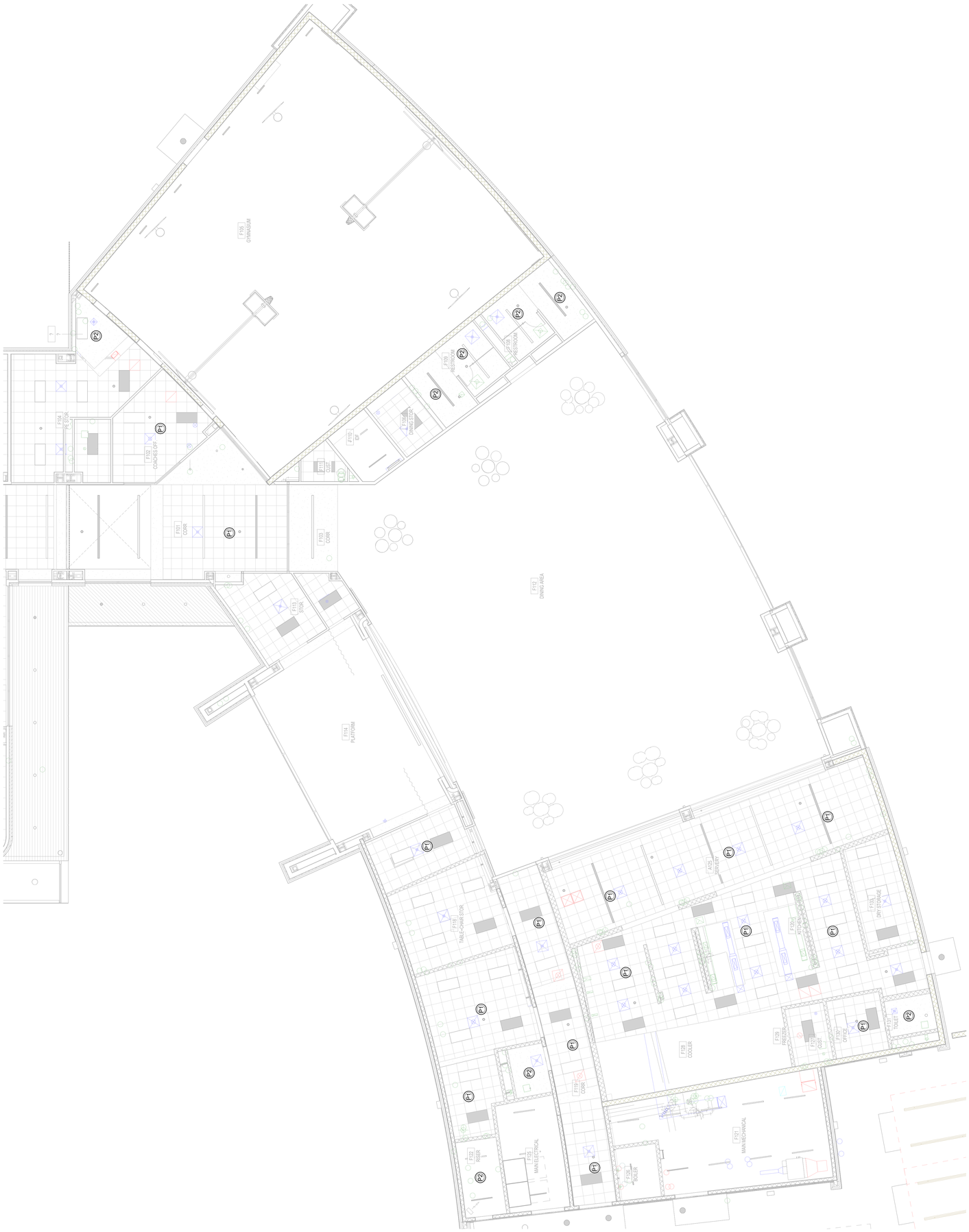
REFLECTED CEILING PLAN - LEVEL 01 - AREA F

VOLUME 2

Job No. 2506.401
Drawn By: VJ/BV
Date: 07.15.26

Sheet No. AV2.1F

PLAN



1 REFLECTED CEILING PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

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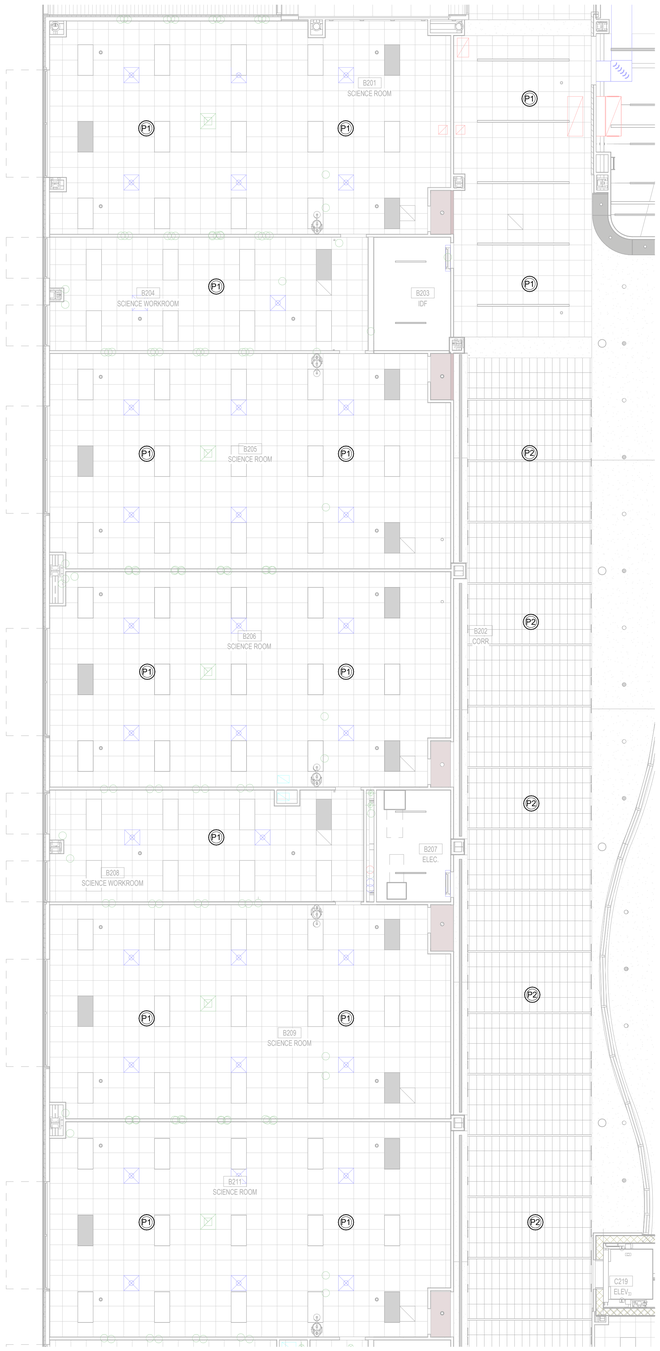

1 REFLECTED CEILING PLAN - LEVEL 02 - AREA B
1/8" = 1'-0"

PLAN

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
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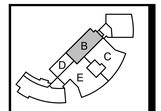

KEY PLAN - LEVEL 2
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REFLECTED CEILING PLAN - LEVEL 02 - AREA B

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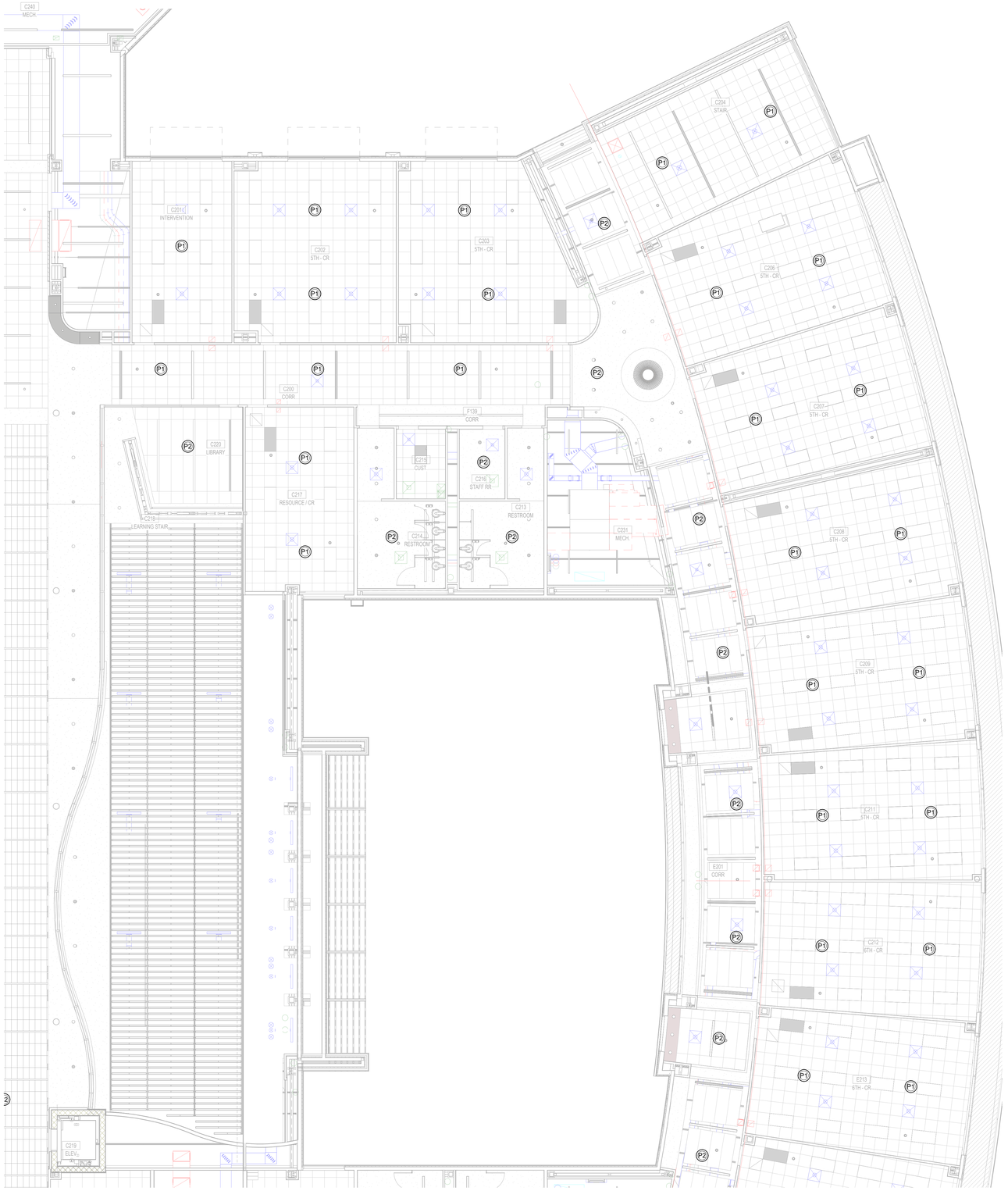

1 REFLECTED CEILING PLAN - LEVEL 02 - AREA C
1/8" = 1'-0"

PLAN

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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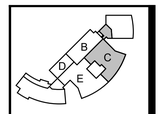

KEY PLAN - LEVEL 2
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REFLECTED CEILING PLAN - LEVEL 02 - AREA C

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1 REFLECTED CEILING PLAN - LEVEL 02 - AREA D
1/8" = 1'-0"

PLAN

REFLECTED CEILING PLAN - LEVEL 02 - AREA D

VOLUME 2

Job No. 008802-04-01
Drawn By: WJ/MW
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Sheet No. AV2.2D

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KEY PLAN - LEVEL 2
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1 REFLECTED CEILING PLAN - LEVEL 02 - AREA E
1/8" = 1'-0"

PLAN

REFLECTED CEILING PLAN - LEVEL 02 - AREA E

VOLUME 2

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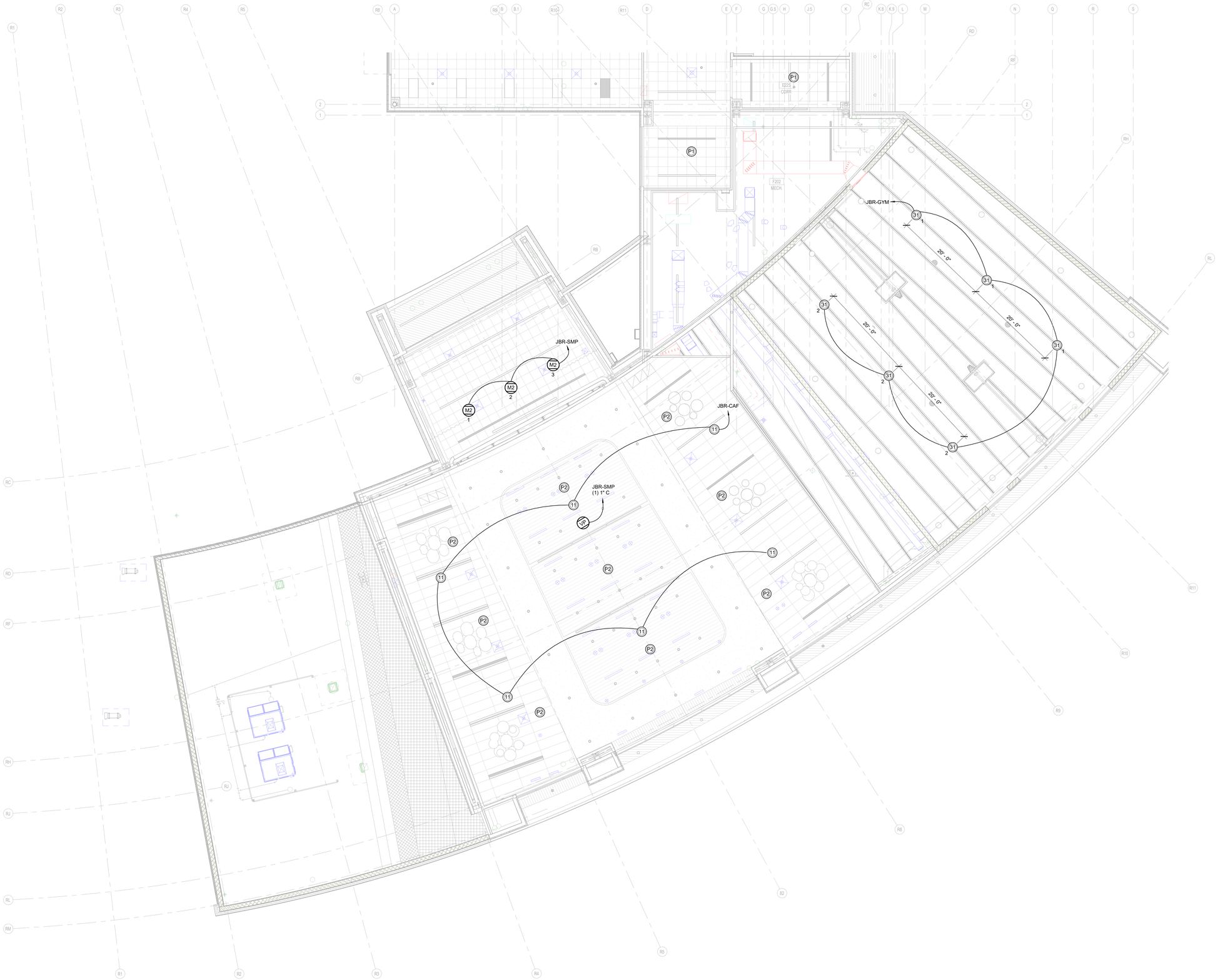

1 REFLECTED CEILING PLAN - LEVEL 02 - AREA F
1/8" = 1'-0"

PLAN NORTH

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TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
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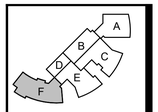

KEY PLAN - LEVEL 1
N.T.S.

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REFLECTED CEILING PLAN - LEVEL 02 - AREA F

VOLUME 2

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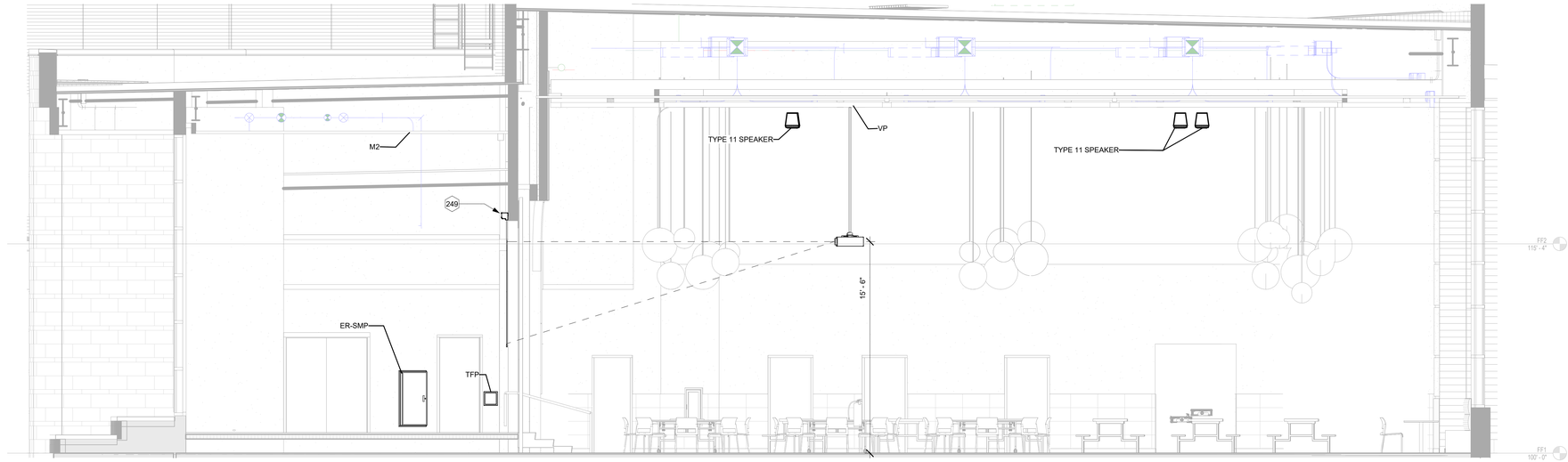
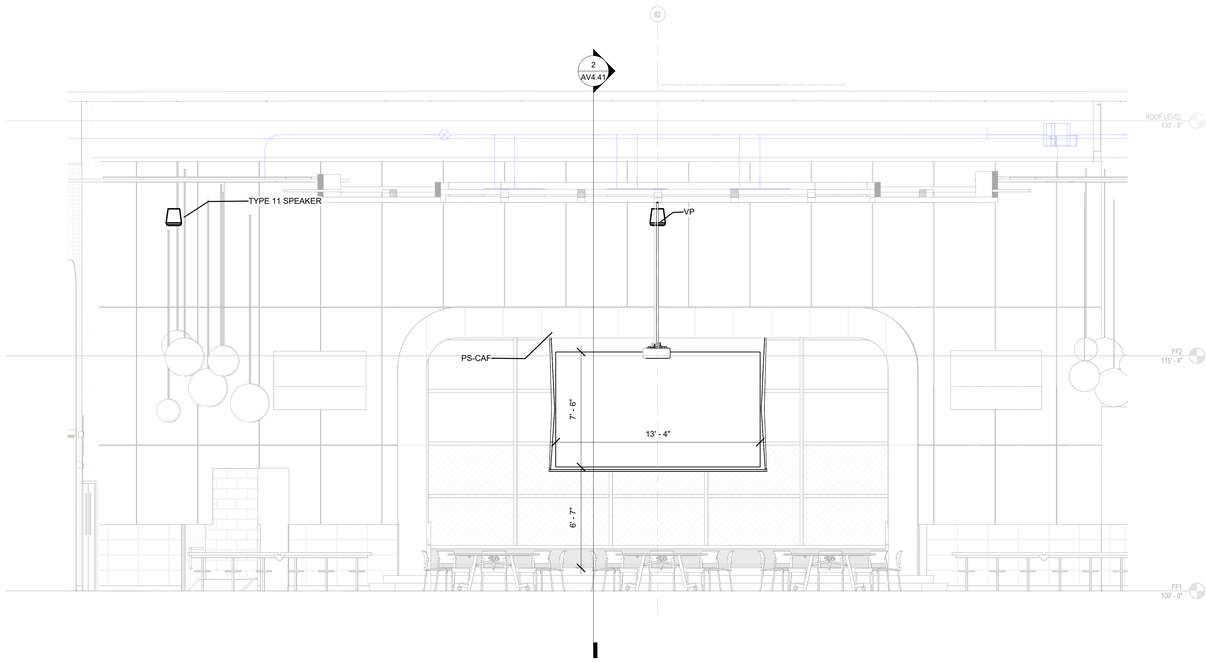
249 PROVIDE REVERSE ROLL PROJECTION SCREEN TO FACE AUDITORIUM

KEYNOTES



2 CAFETORIUM LONGITUDINAL SECTION
1/4" = 1'-0"



1 CAFETORIUM STAGE ELEVATION
1/4" = 1'-0"

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INTERIOR SECTIONS AND ELEVATIONS

VOLUME 2

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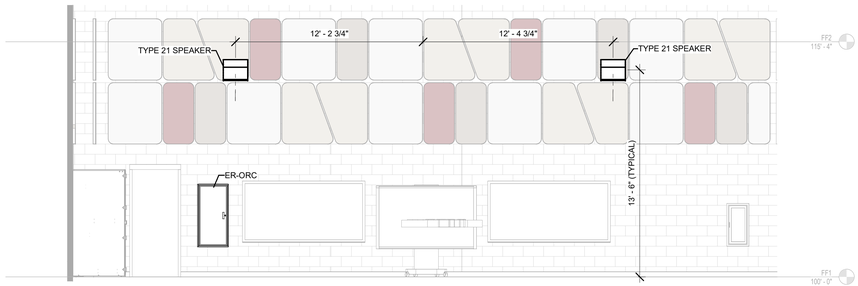
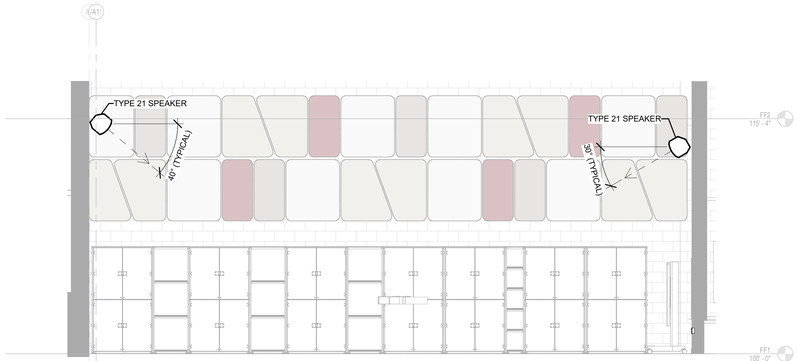
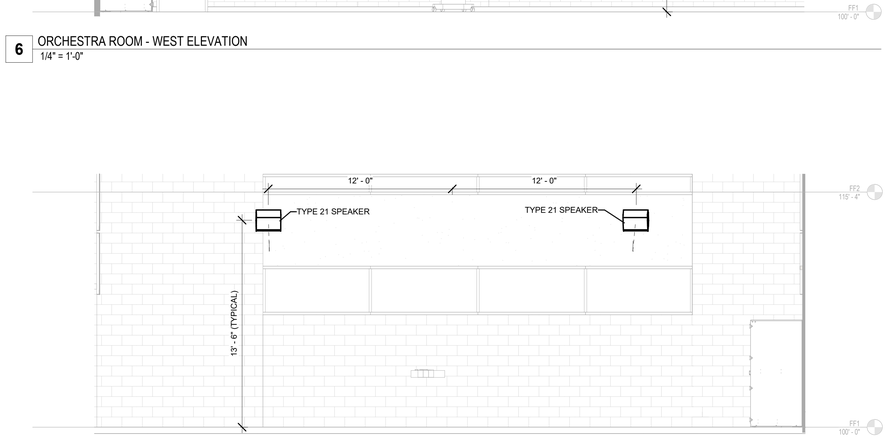


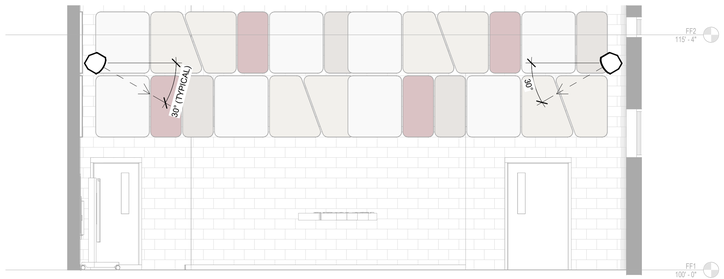
6 ORCHESTRA ROOM - WEST ELEVATION
1/4" = 1'-0"



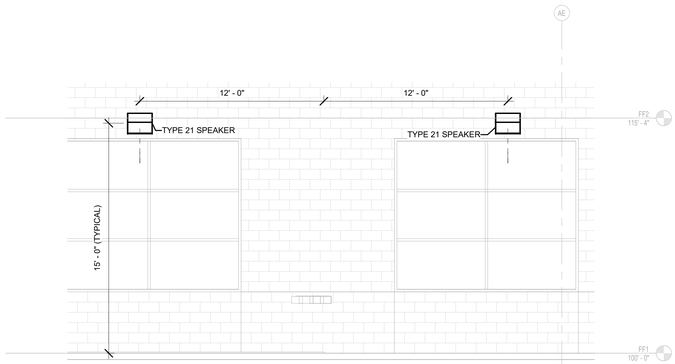
3 BAND ROOM - WEST ELEVATION
1/4" = 1'-0"



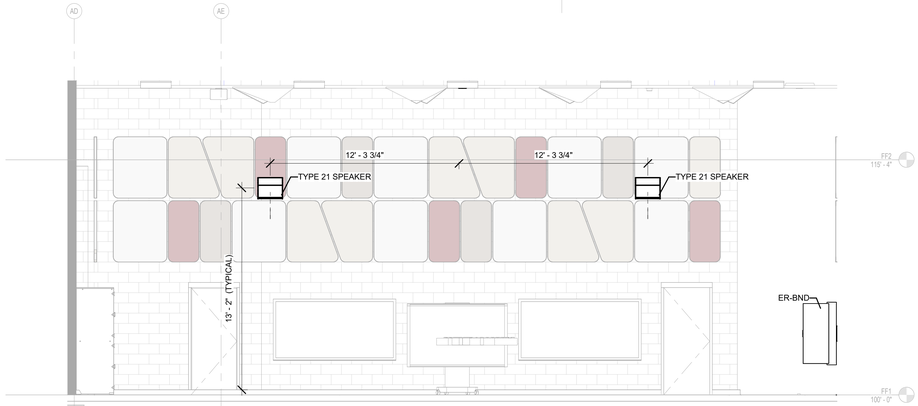
5 ORCHESTRA ROOM - EAST ELEVATION
1/4" = 1'-0"



4 ORCHESTRA ROOM - NORTH ELEVATION
1/4" = 1'-0"



2 BAND ROOM - SOUTH ELEVATION
1/4" = 1'-0"



1 BAND ROOM - NORTH ELEVATION
1/4" = 1'-0"

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FOR
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INTERIOR SECTIONS AND ELEVATIONS

VOLUME 2

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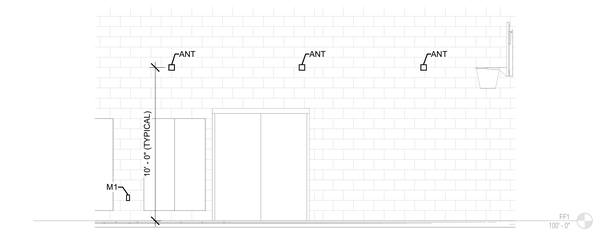
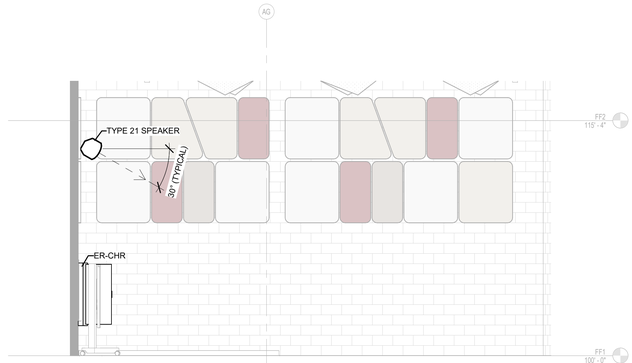
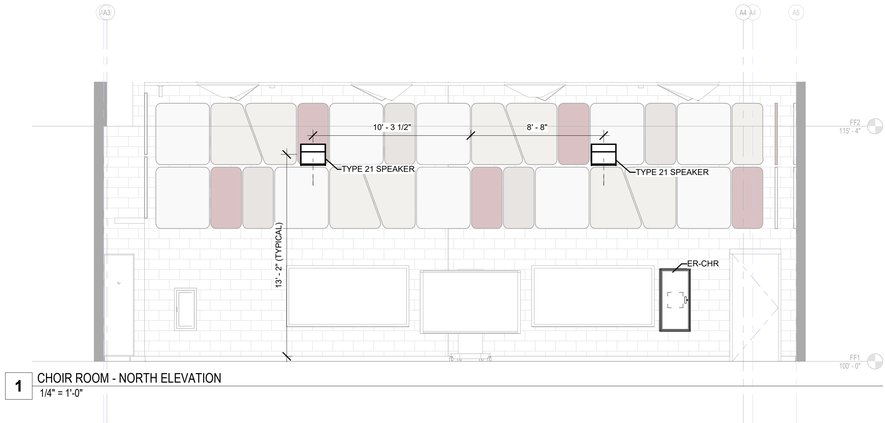


3 GYMNASIUM - NORTH ELEVATION
1/4" = 1'-0"



2 CHOIR ROOM - WEST ELEVATION
1/4" = 1'-0"



1 CHOIR ROOM - NORTH ELEVATION
1/4" = 1'-0"

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INTERIOR SECTIONS AND ELEVATIONS

VOLUME 2

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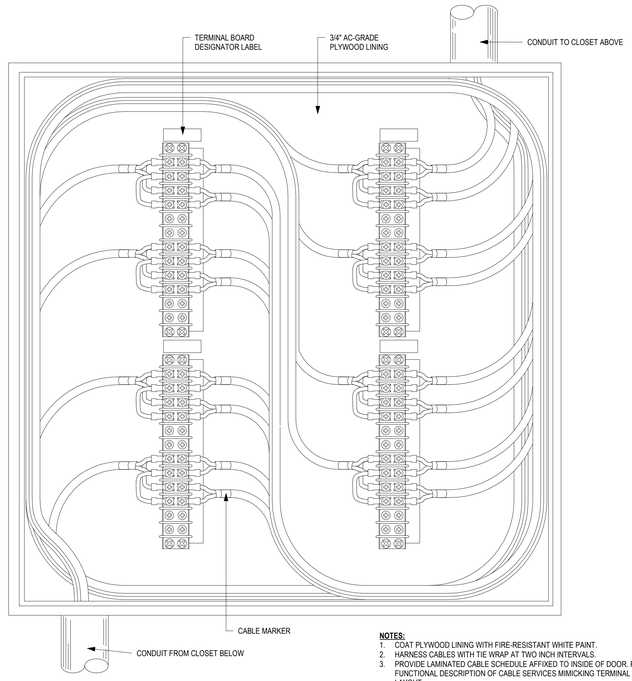
SPEAKER JUNCTION BOX TERMINATION DETAILS

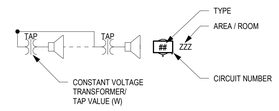


NOTES:
1. COAT PLYWOOD LINING WITH FIRE-RESISTANT WHITE PAINT.
2. HARNESS CABLES WITH TIE WRAP AT TWO INCH INTERVALS.
3. PROVIDE LAMINATED CABLE SCHEDULE AFFIXED TO INSIDE OF DOOR. PROVIDE FUNCTIONAL DESCRIPTION OF CABLE SERVICES MIMICKING TERMINAL BOARD LAYOUT.

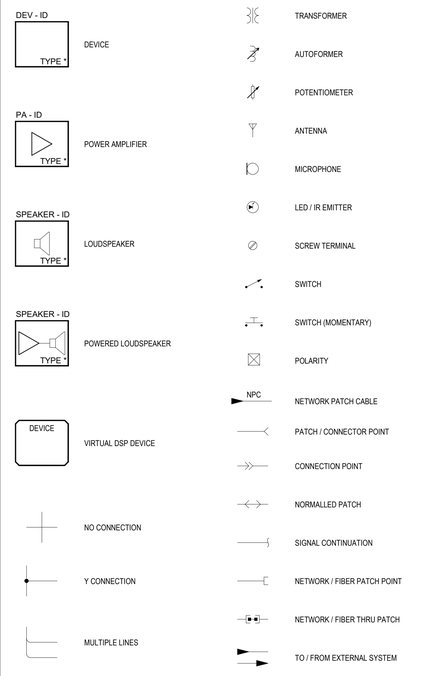
PANEL SYMBOL LEGEND



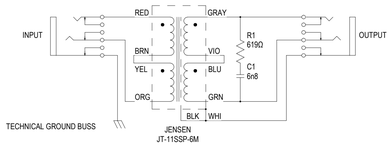
PARALLELED SPEAKERS DETAIL



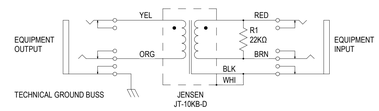
FUNCTIONAL SYMBOL LEGEND



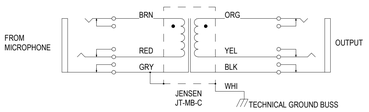
AUDIO TRANSFORMER WIRING



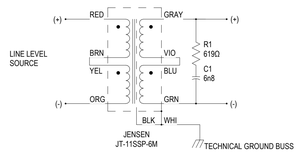
1:1 LINE INPUT TRANSFORMER AND LINE BRIDGING TRANSFORMER



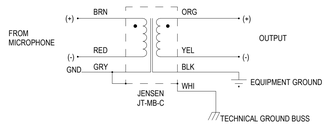
4:1 LINE INPUT TRANSFORMER (PRO TO CONSUMER EQUIPMENT)



MICROPHONE TRANSFORMER

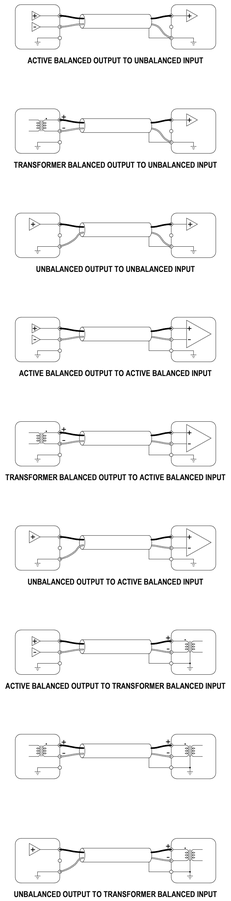


ISOLATION TRANSFORMER



MICROPHONE LEVEL BRIDGING TRANSFORMER

AUDIO SHIELD CONNECTIONS



ACTIVE BALANCED OUTPUT TO UNBALANCED INPUT

TRANSFORMER BALANCED OUTPUT TO UNBALANCED INPUT

UNBALANCED OUTPUT TO UNBALANCED INPUT

ACTIVE BALANCED OUTPUT TO ACTIVE BALANCED INPUT

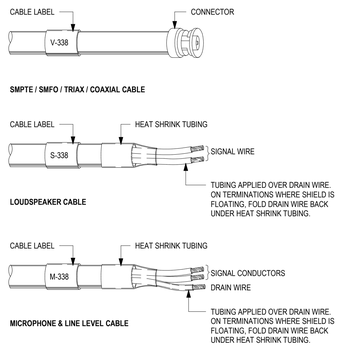
TRANSFORMER BALANCED OUTPUT TO ACTIVE BALANCED INPUT

UNBALANCED OUTPUT TO ACTIVE BALANCED INPUT

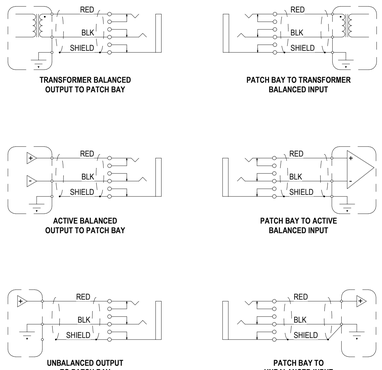
ACTIVE BALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

UNBALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

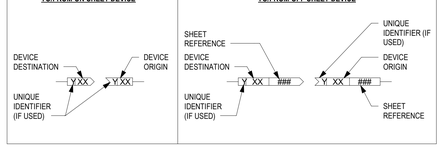
AV CABLE PREPARATION DETAILS



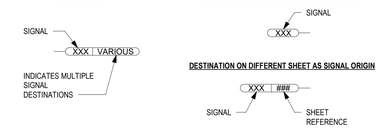
TYPICAL DEVICE TO PATCHBAY WIRING



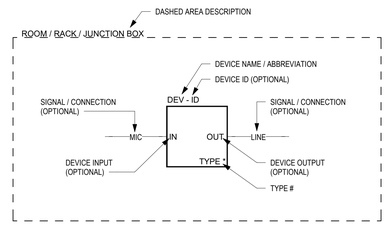
SIGNAL TO/FROM PHYSICAL DEVICE



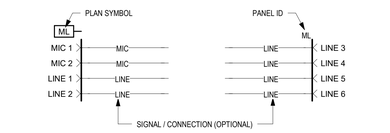
SIGNAL TO/FROM VIRTUAL DEVICE



DEVICE SIGNAL FLOW DETAIL



PLATE/PANEL SIGNAL FLOW DETAIL



Revision / Date

Project: TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT FOR TOMBALL INDEPENDENT SCHOOL DISTRICT TOMBALL, TEXAS

STATE OF TEXAS
ALEXANDER BONKLE
157412
REGISTERED PROFESSIONAL ENGINEER

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AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	AV11.00
Drawn By: WJHW	
Date: 07.15.26	

7/15/2026 10:49:42 AM
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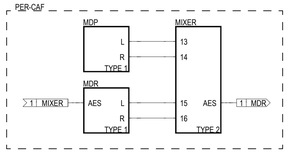
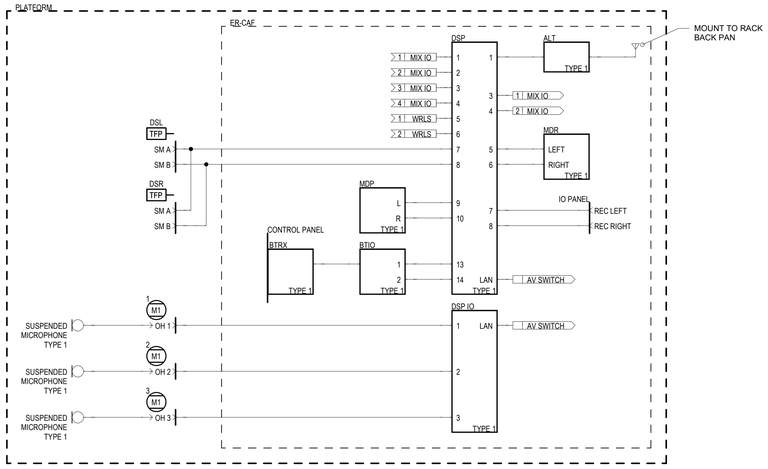


3 AUDIO SYSTEM DSP FUNCTIONAL DIAGRAM
NTS



2 AUDIO SYSTEM DSP FUNCTIONAL DIAGRAM
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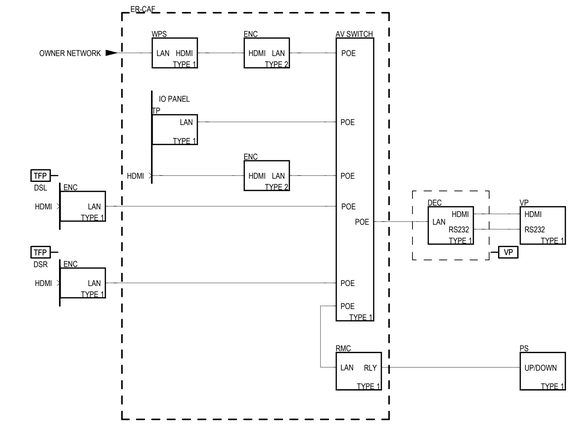

5 AV FUNCTIONAL DIAGRAM
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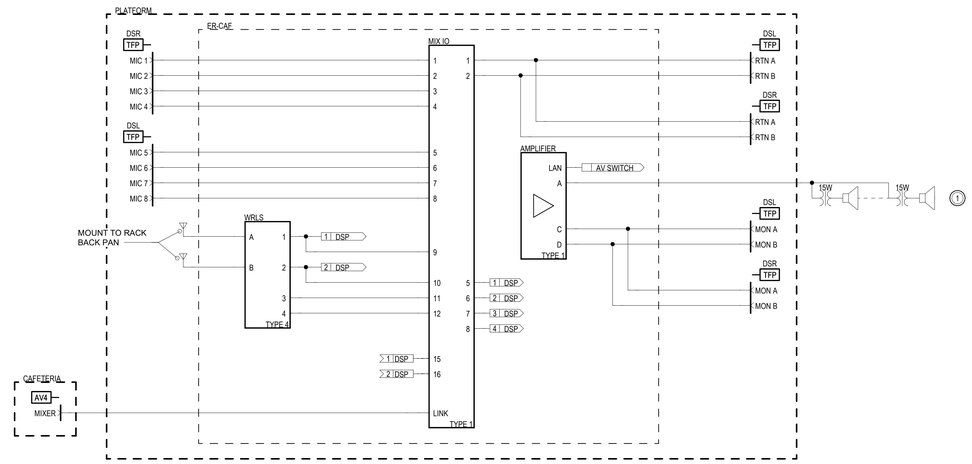
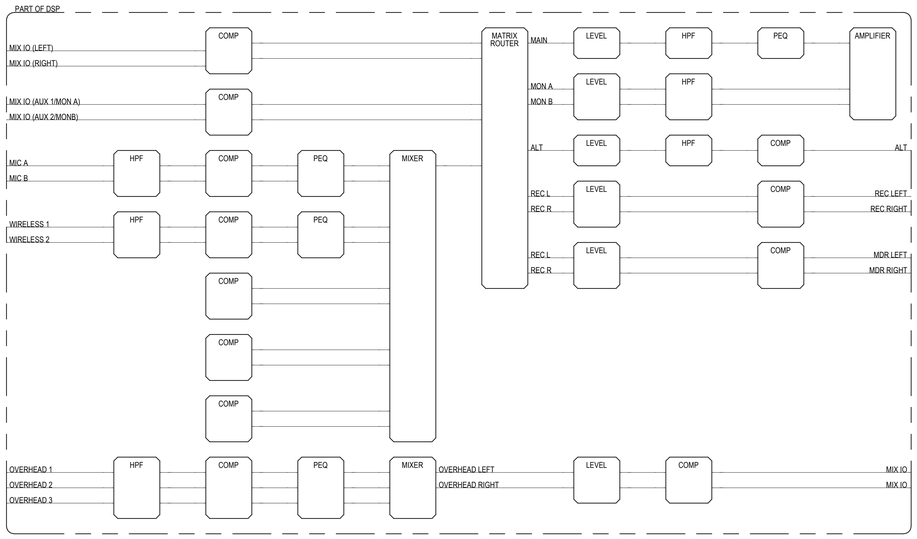


4 STAGE I/O AUDIO SYSTEM FUNCTIONAL DIAGRAM
NTS



1 AUDIO SYSTEM DSP FUNCTIONAL DIAGRAM
NTS

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



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CAFETORIUM FUNCTIONAL DIAGRAMS

VOLUME 2

Job No. 00802-04-01	Sheet No. AV11.11
Drawn By: WJHW	
Date: 07.15.26	

7/13/2026 10:49:45 AM
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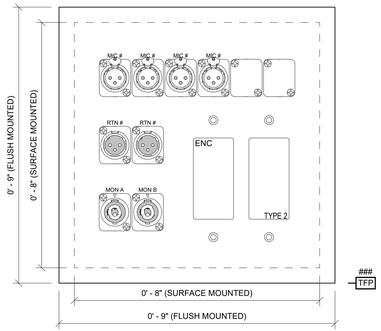
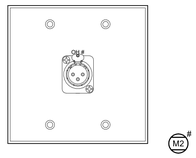
LOOSE EQUIPMENT - CAFETORIUM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
4	BODYPACK WIRELESS MICROPHONE	1	--
4	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	2	--
1	DRUM MICROPHONE PACKAGE	1	--
1	PIANO MICROPHONE PACKAGE	1	--
6	VOCAL MICROPHONE	1	--
2	INSTRUMENT MICROPHONE	1	--
2	INSTRUMENT MICROPHONE	2	--
1	INSTRUMENT MICROPHONE	3	--
2	CHOIR MICROPHONE	1	--
2	PODIUM MICROPHONE	1	--
4	GENERAL PURPOSE MICROPHONE	1	--
6	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	2	--
4	MICROPHONE STAND AND MOUNTING	3	--
4	MICROPHONE STAND AND MOUNTING	4	--
4	MICROPHONE STAND AND MOUNTING	5	--
2	MONO DI BOX	1	--
1	STEREO DI BOX	1	--
1	STEREO COMPUTER DI BOX	1	--
1	STEREO COMPUTER USB DI BOX	1	--
4	SPEAKER	10	--
2	SPEAKER STAND	1	--
8	ALS RECIEVER	1	--
1	PORTABLE EQUIPMENT RACK	1	PER-CAF
4	MICROPHONE CABLE	06	--
12	MICROPHONE CABLE	25	--
4	MICROPHONE CABLE	50	--
2	INSTRUMENT CABLE	06	--
2	SPEAKER CABLE	06	--
4	SPEAKER CABLE	25	--
2	SPEAKER CABLE	50	--
2	ETHERNET AUDIO CABLE	25	--
1	POWER EXTENSION CABLE	25	--
1	HEADPHONES	1	--
1	MOBILE CABINET	1	--
1	MOBILE CABINET	2	--
16	ASSISTED LISTENING RECIEVERS	1	COORDINATE FINAL QUANTITY WITH OWNER

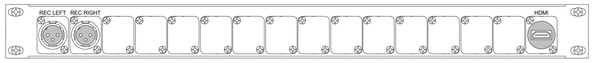


3 TECHNICAL FACILITY PANEL DETAIL - TYPICAL
6" = 1'-0"
NOTE: REFERENCE FUNCTIONAL DIAGRAMS FOR CONNECTOR LABELS

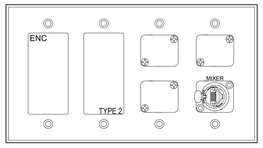


NOTE: REFERENCE FUNCTIONAL DIAGRAMS FOR CONNECTOR LABELS

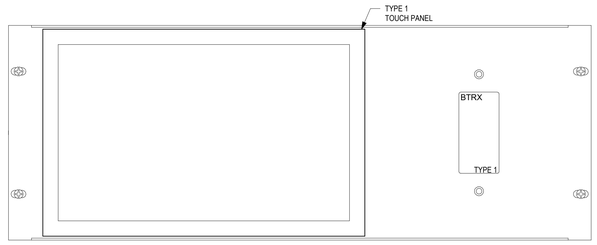
5 IO PANEL DETAIL
6" = 1'-0"



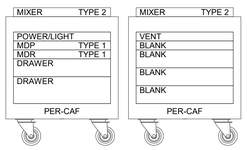
2 IO PANEL DETAIL
6" = 1'-0"



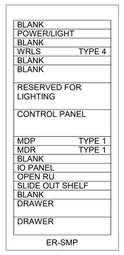
4 AV4 PLATE DETAIL
6" = 1'-0"



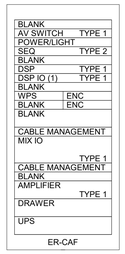
1 CONTROL PANEL DETAIL
6" = 1'-0"



8 PER-CAF ELEVATION
1" = 1'-0"



7 ER-SMP ELEVATION
1" = 1'-0"



6 ER-CAF ELEVATION
1" = 1'-0"

7/13/2026 10:49:56 AM
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FOR
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CAFETORIUM DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	AV11.12
Drawn By: Author	
Date: 07.15.26	

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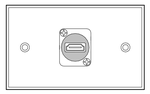
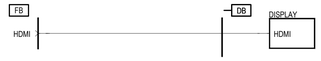
Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



2 FLOORBOX DETAIL
NTS



1 MEETING ROOMS B112, B134, E234 FUNCTIONAL DIAGRAM
NTS

ALEXANDER BONKLE
157488
REGISTERED
PROFESSIONAL ENGINEER
STATE OF TEXAS

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CONFERENCE AND HUDDLE ROOMS FUNCTIONAL DIAGRAMS AND DETAILS

VOLUME 2

Job No.	Sheet No.
00802-04-01	AV11.13
Drawn By: WJHW	
Date: 07.15.26	

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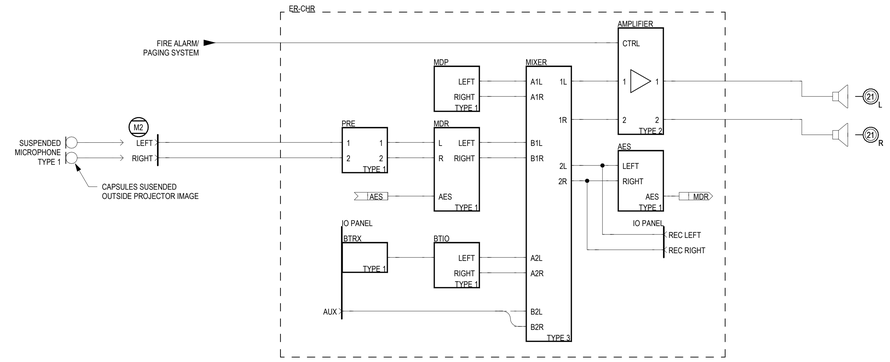
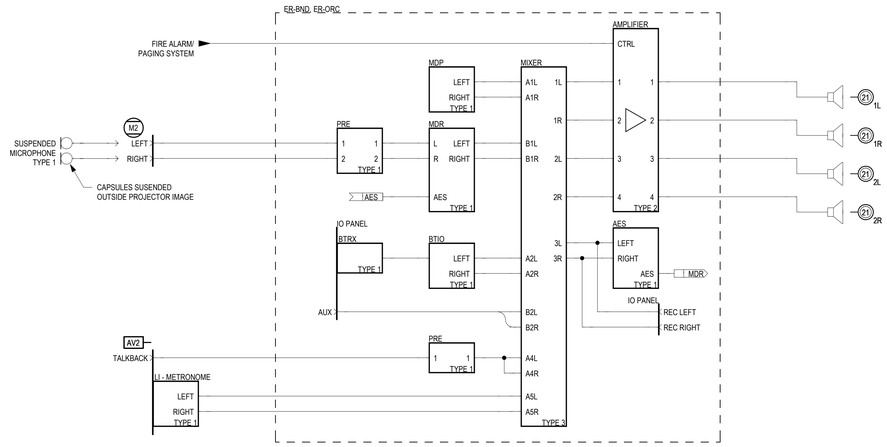
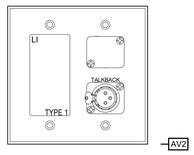
LOOSE EQUIPMENT - MUSIC ROOM (TYPICAL OF 3) (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
1	SWITCHED VOCAL MICROPHONE	1	--
2	INSTRUMENT MICROPHONE	2	--
2	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	2	--
2	MICROPHONE STAND AND MOUNTING	5	--
1	STEREO DI BOX	1	--
3	MICROPHONE CABLE	06	--
3	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
1	HEADPHONES	1	--



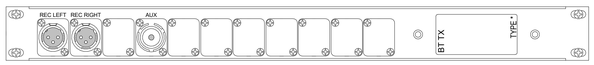
2 CHOIR ROOM AUDIO SYSTEM FUNCTIONAL DIAGRAM
NTS



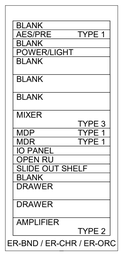
1 BAND ROOM AND ORCHESTRA ROOM AUDIO SYSTEM FUNCTIONAL DIAGRAM
NTS



4 AV2 PLATE DETAIL
6" = 1'-0"



3 IO PANEL DETAIL
6" = 1'-0"



5 ER-BND / ER-CHR / ER-ORC ELEVATION
1" = 1'-0"

Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS

STATE OF TEXAS
ALEXANDER DONKLE
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MUSIC ROOM DETAILS

VOLUME 2

Job No. 00802-04-01
Drawn By: WJHW
Date: 07.15.26
Sheet No. AV11.21

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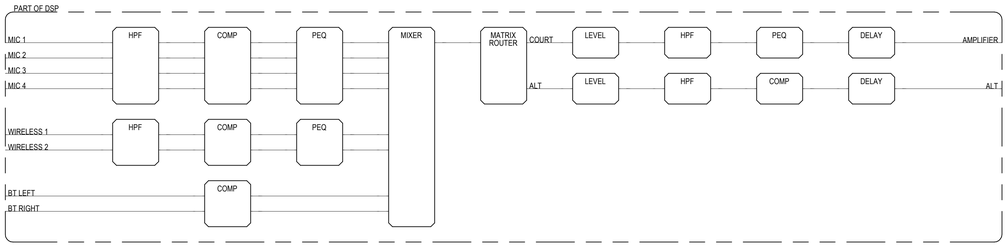
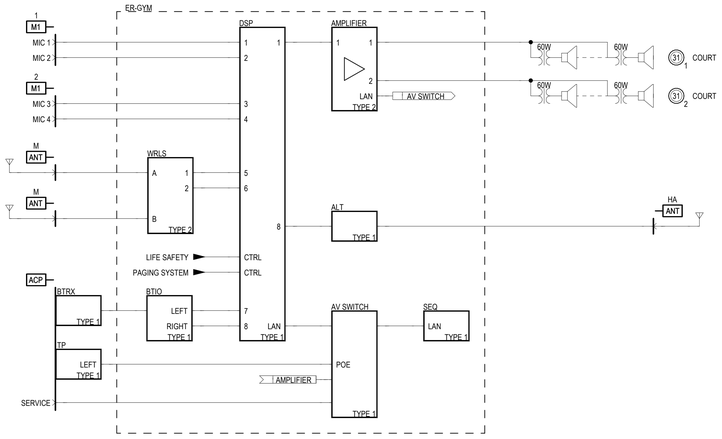
LOOSE EQUIPMENT - GYMNASIUM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
2	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	1	--
2	GENERAL PURPOSE MICROPHONE	1	--
2	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE CABLE	06	--
4	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
15	ASSISTED LISTENING RECIEVERS	1	COORDINATE FINAL QUANTITY WITH OWNER



5 ER-GYM ELEVATION
1" = 1'-0"



2 AUDIO SYSTEM FUNCTIONAL DIAGRAM
NTS



1 AUDIO SYSTEM DSP FUNCTIONAL DIAGRAM
NTS

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Revision / Date

Project:
TOMBALL ISD INTERMEDIATE SCHOOL REPLACEMENT
FOR
TOMBALL INDEPENDENT SCHOOL DISTRICT
TOMBALL, TEXAS



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GYMNASIUM DETAILS

VOLUME 2

Job No. 00802-04-01
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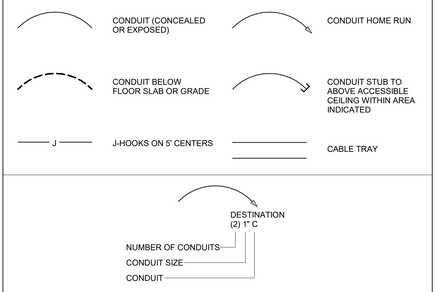
GENERAL ABBREVIATIONS

--	NOT APPLICABLE
@	AT
3DC	3D CONTROLLER
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
C	CONDUIT
CAT	CATEGORY CABLE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DC	DIRECT CURRENT
DC	DOWNSTAGE CENTER
DEG	DEGREES
DEMO	DEMOLITION
DFP	DIRECTOR'S FLOOR POCKET
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSTAGE
DSL	DOWNSTAGE LEFT
DSR	DOWNSTAGE RIGHT
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
ESW	ETHERNET SWITCH
EXIST	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FINISHED OPENING
FOH	FRONT OF HOUSE
FPB	FIBER OPTIC PATCHBAY
FPM	FEET PER MINUTE
FT	FOOT, FEET
FV	FIELD VERIFY
GND	GROUND
GA	GAUGE
H	HEIGHT
HL	HOUSE LEFT
HMP	HOUSE MANAGER POSITION
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HOUSE RIGHT
HZ	HERTZ
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
JBD	JUNCTION BOX - DATA
JP	JUNCTION BOX - SYSTEM POWER
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT/RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LF	LINEAR FEET
LTG	LIGHTING
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NETWORK
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PRIMARY
P/O	PART OF
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
PROC	PROCESSOR
PRH	PROJECT RECEPTACLE HEIGHT
PRX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSF	POUNDS PER SQUARE FOOT
PSH	PROJECT SWITCH HEIGHT
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
S	SURFACE, SECONDARY
SCS	STRUCTURED CABLING SYSTEM
SQFT	SQUARE FEET
SIM	SIMILAR
SL	STAGE LEFT
SMFO	SINGLE MODE FIBER OPTIC CABLE
SMP	STAGE MANAGER POSITION
SPEC	SPECIFICATION
SQ	SQUARE
SR	STAGE RIGHT
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SUSP	SUSPEND
TBD	TO BE DETERMINED
THRU	THROUGH
TYP	TYPICAL
UC	UPSTAGE CENTER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UPSTAGE
USL	UPSTAGE LEFT
USR	UPSTAGE RIGHT
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

THEATRE SYSTEM ABBREVIATIONS

--	NOT APPLICABLE
ACP	ARCHITECTURAL CONTROL PROCESSOR
CDR	CONTROL DISTRIBUTION RACK
DB	DIMMER BANK
DISC	DISCONNECT
DM	DIMMING SYSTEM MANUFACTURER
DMX	DIGITAL LIGHTING CONTROL UNIT
DR	DIMMER RACK
HL	HOUSELIGHT
JD	JUNCTION BOX - DIMMING SYSTEM
JR	JUNCTION BOX - RIGGING SYSTEM CONTROL
LPO	LIGHTING POWER OUTLET
LRA	LOCKED ROTOR AMPS
MCC	MOTOR CONTROL CENTER
RP	RELAY PANEL
SVR	COMPUTER SERVER
TL	THEATRICAL LIGHTING
TR	THEATRICAL RIGGING
WL	WORKLIGHT

PATHWAY DISTRIBUTION



ROUGH-IN BOX SCHEDULE

TYPE 1

RECESSED: 1-GANG BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 2

RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 3

RECESSED: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 3-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 4

RECESSED: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 4-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 5

RECESSED: 5" SQUARE BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

TYPE 12

RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE A

JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE B

JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE C

JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS

CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 3/4 INCH TRADE SIZE.
6. SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE ¾ INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
7. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
10. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
13. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
14. PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS ¼ THE LENGTH.
15. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES AND PULL BOXES WITHOUT FACEPLATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1", "ML".
16. ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
17. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
18. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
19. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
20. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
21. IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
22. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
23. REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
24. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

DEVICE SYMBOL KEY - THEATRE LIGHTING SYSTEMS



SYMBOL LEGEND - THEATRE LIGHTING SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
CDP	CONTROL DISTRIBUTION PANEL	--	--	SEE NOTE 1	--	--	--	--
DMX	DMX RECEPTACLE STATION (IN OR OUT)	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
NET	THEATRICAL LIGHTING NETWORK RECEPTACLE	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	--	--	CAN BE RECESSED, SURFACE, OR PIPE MOUNT; REF TS 16.10 DETAIL 1	REF PLANS
PB	MULTI-CIRCUIT PLUGGING BOX	--	--	--	--	--	PIPE MOUNT; REF TS 16.10 DETAIL 2	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF PLANS
RP	DMX CONTROLLED RELAY PANEL	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
SMP	STAGE MANAGER PANEL	--	--	--	--	--	REF. DETAIL; PANEL MOUNT; COORDINATE INSTALLATION WITH THE 27 41 16 SCOPE OF WORK	--

LEGEND NOTES - THEATRE LIGHTING SYSTEMS

1 WALL MOUNTED ENCLOSURE

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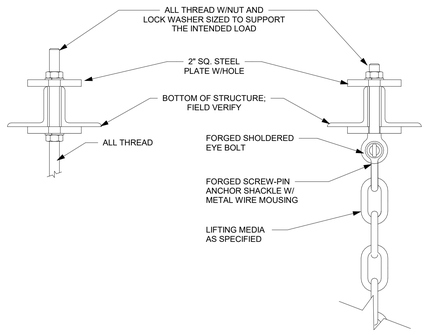
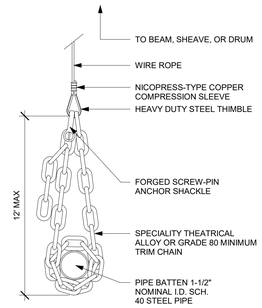
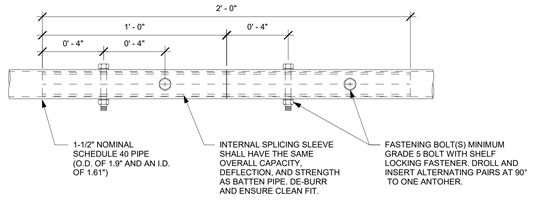
CONNECTION METHODS TO STRUCTURE



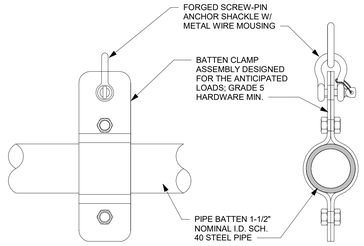
PIPE BATTEN HANGING - LINESET



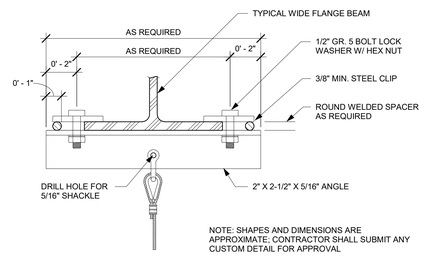
PIPE SPLICE METHOD - BATTENS



PIPE BATTEN HANGING - CLAMP

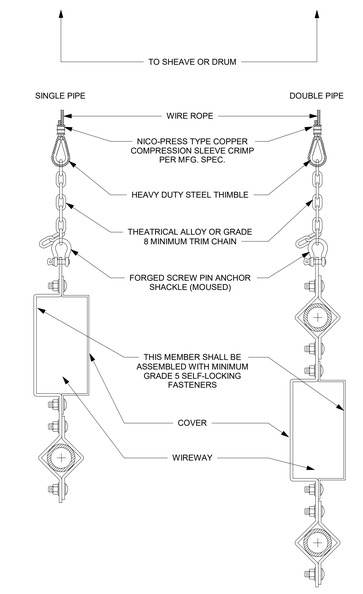


BEAM CLAMP

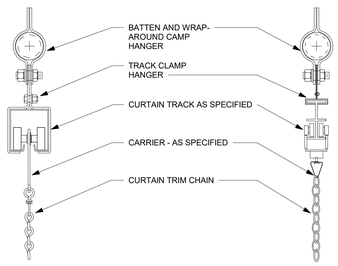


NOTE: SHAPES AND DIMENSIONS ARE APPROXIMATE; CONTRACTOR SHALL SUBMIT ANY CUSTOM DETAIL FOR APPROVAL

PLATFORM ELECTRIC HANGING DETAIL



TRACK HANGING METHOD - BATTENS



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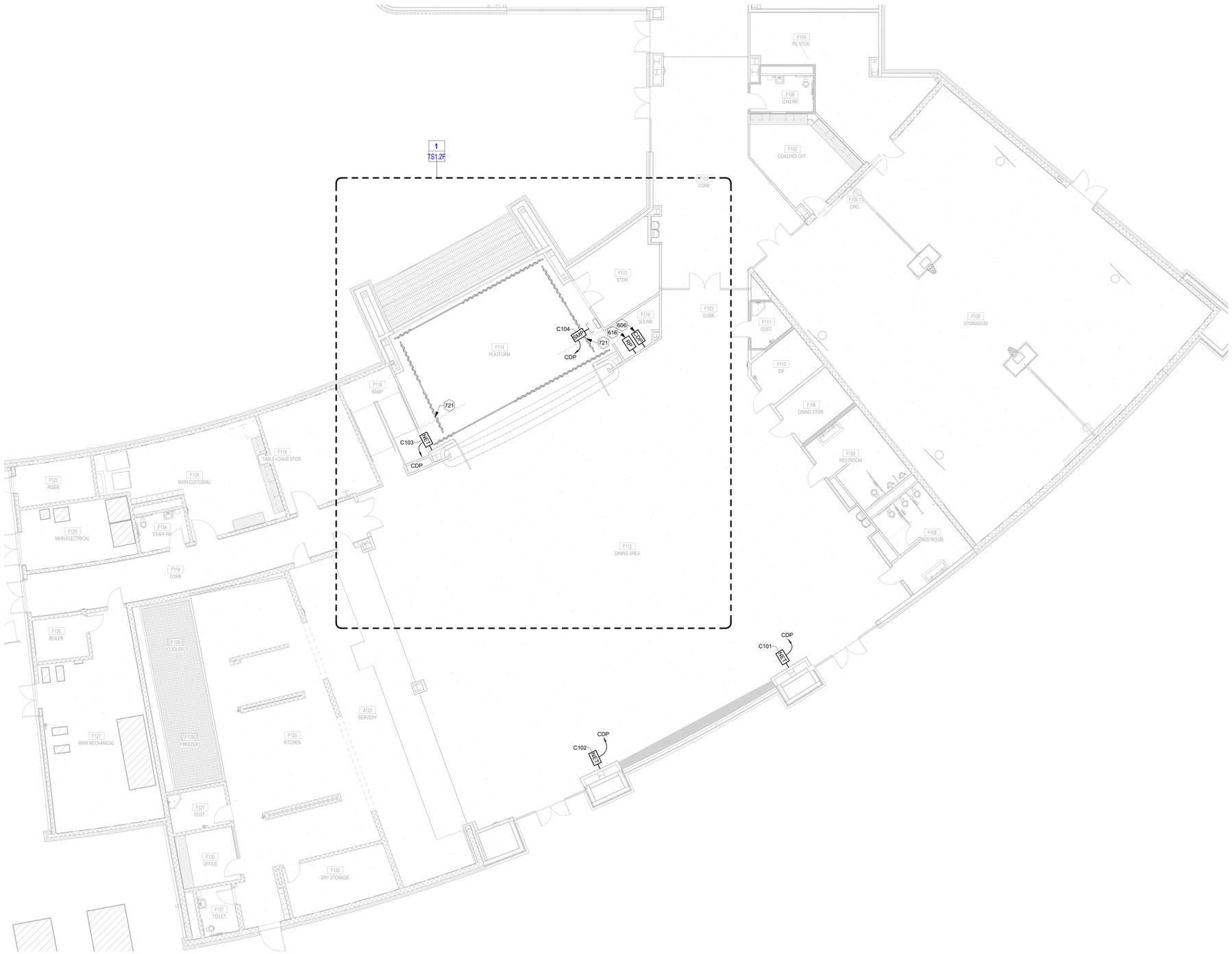
606 CONTROL DISTRIBUTION PANEL (CDP). REFER TO LIGHTING TL RISER.
616 RELAY PANEL (RP); 4-CIRCUIT DMX-CONTROLLED PANELBOARD. REF RISER ON TL-1601 AND ELECTRICAL DRAWINGS.
721 PROVIDE DRAPERY STOPS AT THIS LOCATION TO MAINTAIN A 3'-0" CLEARANCE.

KEYNOTES



1 TS_FLOOR PLAN - LEVEL 01 - AREA F
1/8" = 1'-0"

PLAN N

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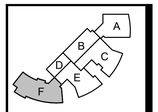

KEY PLAN - LEVEL 1
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FLOOR PLAN - LEVEL 01 - AREA F

VOLUME 2

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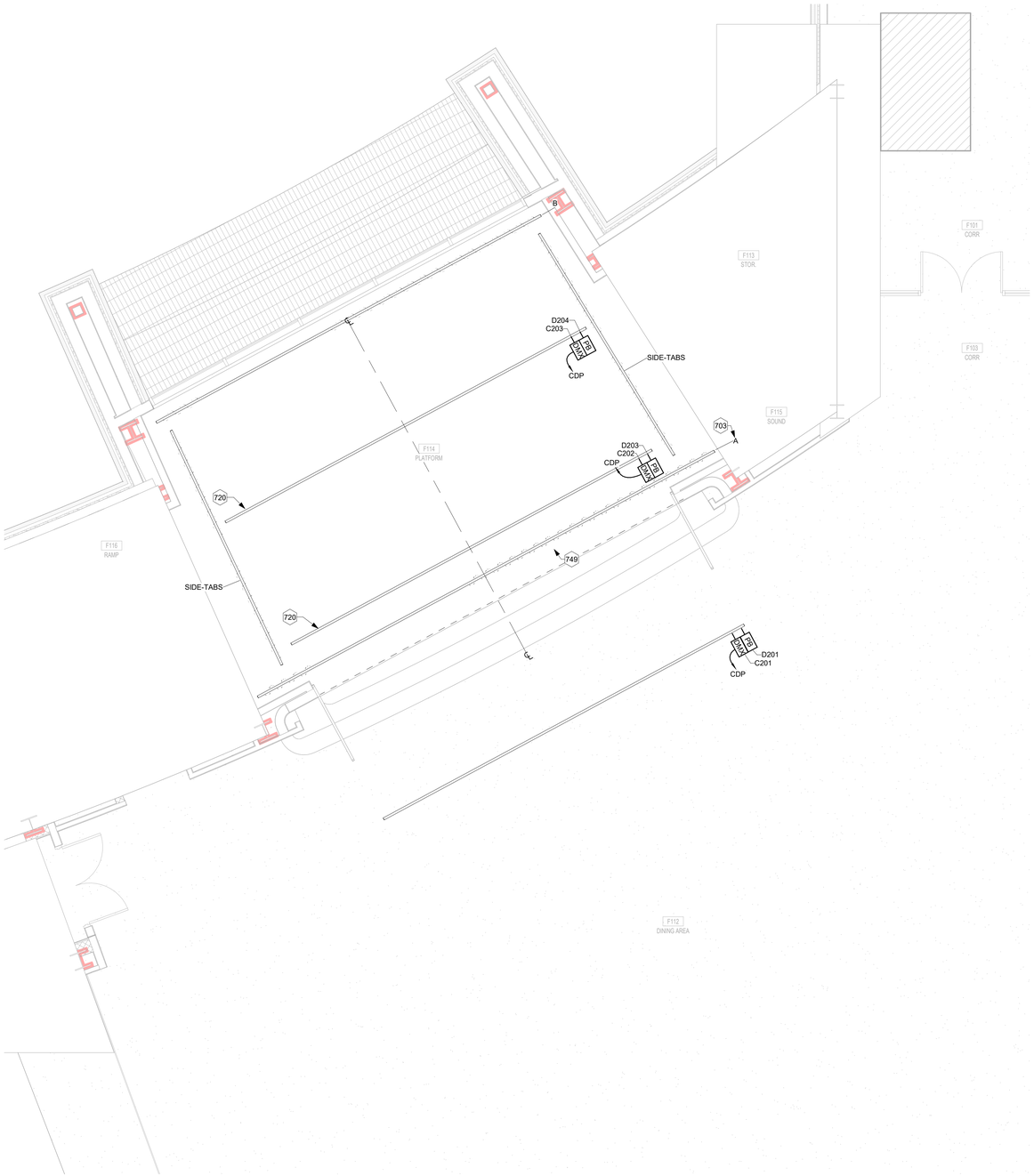

1 TS_FLOOR PLAN - LEVEL 01 - AREA F -ENLARGED PLAN
1/4" = 1'-0"

703 DRAPERY I.D.; Ref DRAPERY SCHEDULE, TYP
720 FURNISH PLATFORM ELECTRIC BATTEN AT 18'-0" AFF.
749 PLASTER LINE

KEYNOTES

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ENLARGED PLAN - UPPER LEVEL - AREA F

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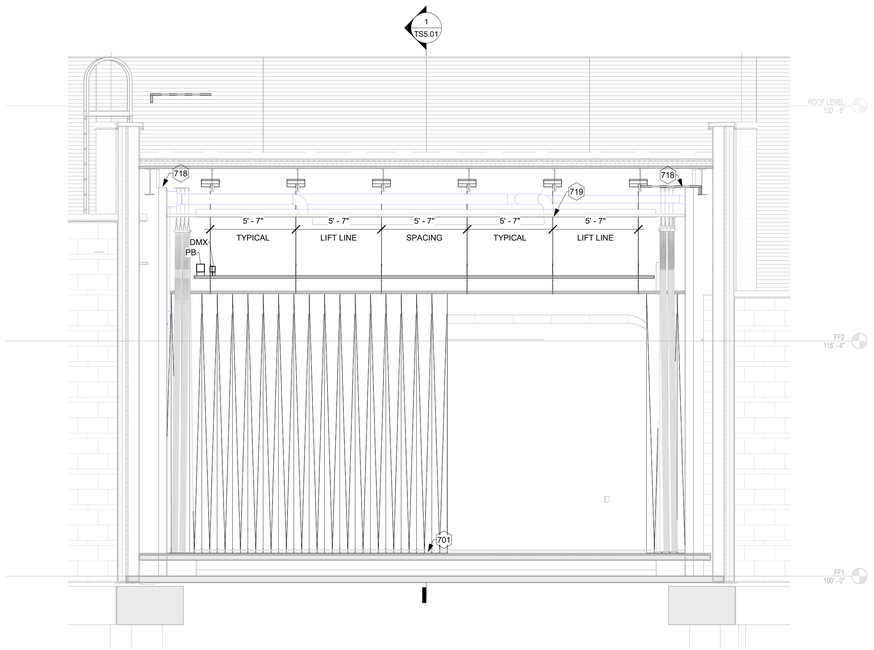
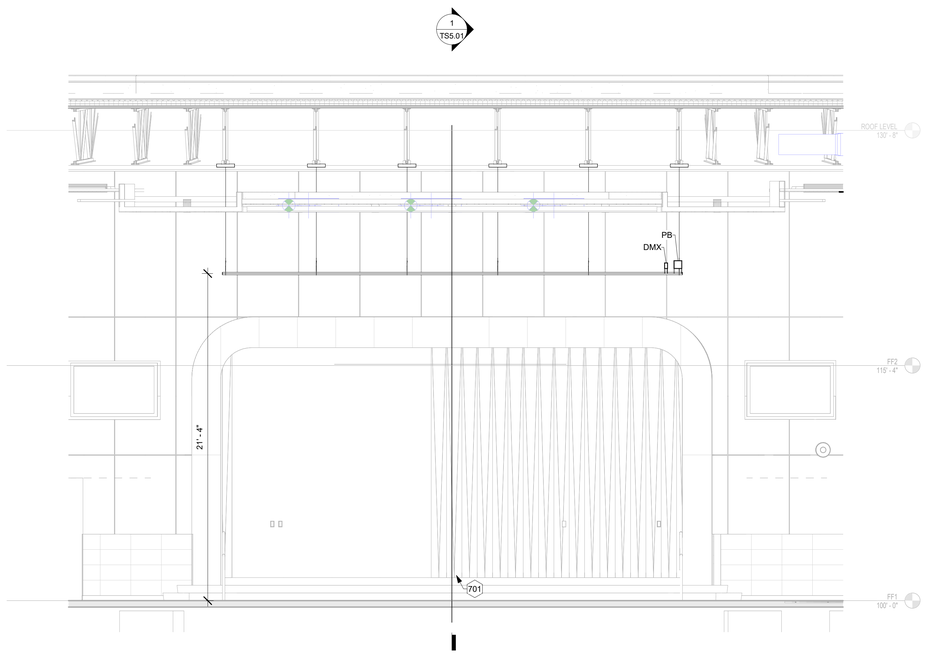
DRAPERY SCHEDULE											
Drapery ID	Description	Location	Quantity	Size	Fabric Type	Color	Weight	Fullness	Hem	Bottom	Comments
A	MAIN DRAPE	PLATFORM	1	20'-0" W X 17'-0" H	IFR VELOUR	by ARCHITECT	25 OZ	100%	FABRIC HALF-WIDTH	CHAIN	HANG FROM BI-PARTING TRACK HARDWARE; 3'-0" CL OVERLAP; PULL SL ; PROVIDE LINER
B	US TRAVELER WITH REAR LINER	PLATFORM	1	17'-0" W X 21'-0" H	IFR VELOUR	BLACK	25 OZ	100%	STANDARD HEM	CHAIN	HANG FROM BI-PARTING TRACK HARDWARE; 3'-0" CL OVERLAP; PULL SL ; PROVIDE WITH REAR-FACING LINER TO PREVENT LIGHT BLEED FROM UPSTAGE WINDOW.
SIDE-TABS	MASKING	PLATFORM	4	9'-6" W X 21'0" H	IFR VELOUR	BLACK	25 OZ	100%	4-INCH	CHAIN	HANG ON WALK-ALONG TRACK HARDWARE; (1) PAIR PER BATTEN

CONTRACTOR SHALL FIELD VERIFY ALL DRAPERY DIMENSIONS PRIOR TO FABRICATION

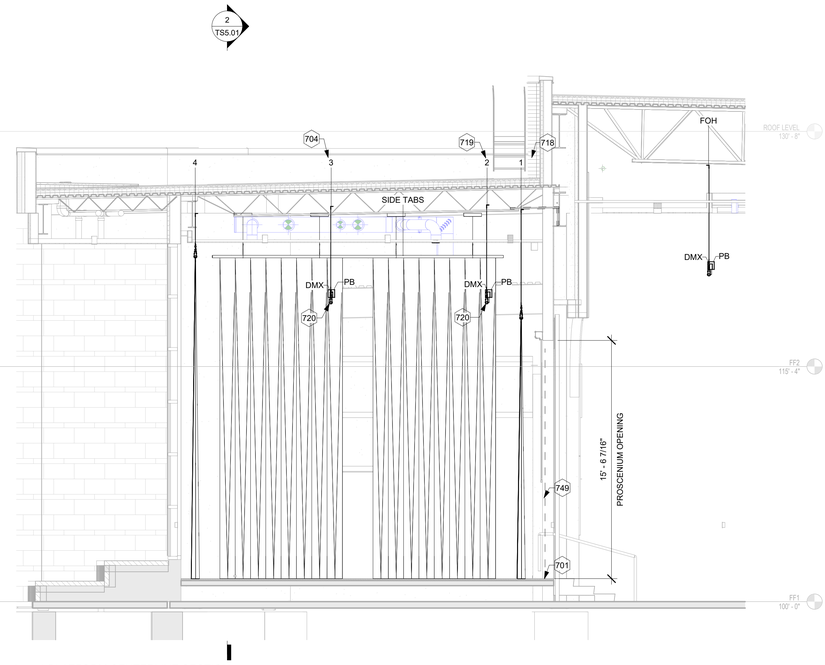
LINESET SCHEDULE - DIMENSIONS FROM DATUM						
Lineset ID	Description	Offset	Capacity	Batten Length	Class	Comments
1	MAIN DRAPE	0' - 9"	500 LBS	38' - 0"	DEAD-HUNG	PROVIDE BI-PARTING TRACK HARDWARE; 3'-0" CL OVERLAP; PULL SL
2	1ST ELECTRIC	3' - 0"	1000 LBS	30' - 0"	DEAD-HUNG	--
3	2ND ELECTRIC	13' - 2"	1000 LBS	30' - 0"	DEAD-HUNG	--
4	TRAVELER	22' - 0"	500 LBS	32' - 0"	DEAD-HUNG	PROVIDE BI-PARTING TRACK HARDWARE; 3'-0" CL OVERLAP; PULL SL
FOH	FOH ELECTRIC	11' - 6"	1000 LBS	30' - 0"	DEAD-HUNG	--
SIDE TABS	MASKING	0' - 0"	300 LBS	19' - 0"	DEAD-HUNG	PROVIDE WALK-ALONG TRACK HARDWARE
SIDE TABS	MASKING	0' - 0"	300 LBS	19' - 0"	DEAD-HUNG	PROVIDE WALK-ALONG TRACK HARDWARE



2 FOH FACING TRANSVERSE SECTION
1/4" = 1'-0"



3 STAGE FACING TRANSVERSE ELEVATION
1/4" = 1'-0"



1 PLATFORM CENTERLINE SECTION
1/4" = 1'-0"

701 DATUM ORIGIN: THE DATUM FOR THEATRICAL RIGGING IS DEFINED AS: (1) THE STAGE CENTER-LINE, (2) THE REAR/ BACKSTAGE FINISH WALL OF THE PROSCENIUM ARCH [I.E. PLASTER-LINE]. (3) THE FINISH ELEVATION OF THE STAGE FLOOR

704 LINESET I.D. Ref. LINESET SCHEDULE - TYP.

718 PROVIDE SUPPLEMENTARY STRUT AS REQUIRED TO COMPLETE INSTALLATION. TYP.

719 COORDINATE PENETRATIONS THROUGH ACOUSTICAL CEILING TILE. INSTALLER SHALL VALIDATE THE PENETRATION/MOUNTING REQUIRMENTS WITH THE ARCHITECT. INCLUDE ASSOCIATED TRIM RINGS, FINISH-OUT, PAINT, PATCH, AND PROVIDE DETAILS IN SUBMITTAL FOR REVIEW; TYP.

720 FURNISH PLATFORM ELECTRIC BATTEN AT 18'-0" AFF.

749 PLASTER LINE

KEYNOTES

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SECTIONS AND RIGGING SCHEDULES

VOLUME 2

Job No.	Sheet No.
00802-04-01	TS5.01
Drawn By: WJHW	
Date: 07.15.26	

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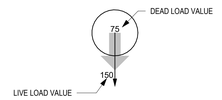
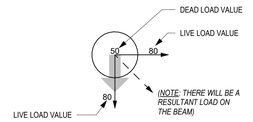
GENERAL NOTES

1. LOADS IMPOSED ON STRUCTURE BY RIGGING SYSTEM ARE EXPRESSED IN POUNDS AS INDICATED. LOADING INCLUDES PROJECTED WEIGHT OF RIGGING HARDWARE (DEAD-LOAD) AND USER-APPLIED (LIVE) LOADS AS DESCRIBED ON THIS SHEET.
2. MAXIMUM LIVE LOADS EXPRESSED IN POUNDS BASED ON UNIFORMLY DISTRIBUTED LOAD ACROSS PIPE BATTENS UNLESS OTHERWISE NOTED.
3. PIPE BATTENS SPANNING THE SEVERAL LIFTING LINES ARE OF SCHEDULE 40 11/2" I.D. PIPE.
4. COORDINATE SUPPLEMENTAL STEEL REQUIREMENTS WITH ARCHITECT; SEE STRUCTURAL DRAWINGS FOR DETAILS.
5. FIELD VERIFY ALL DIMENSIONS.
6. OBSERVE ALL MANUFACTURER'S REQUIREMENTS.
7. RIGGING DATUM REFERED TO AS 0,0,0 IS DEFINED BY THE INTERSECTION OF THE CLINE OF THE STAGE, AT THE FINISH FLOOR ELEVATION, AND THE INSIDE FACE OF THE PROSCENIUM VERTICAL PLANE.
8. STEEL SHAPES SHOWN ARE FOR REFERENCE ONLY AND WILL VARY FROM THOSE SHOWN IN THIS CONCEPTUAL DRAWING.

LEGEND

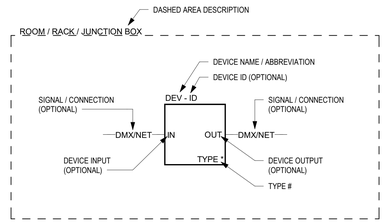


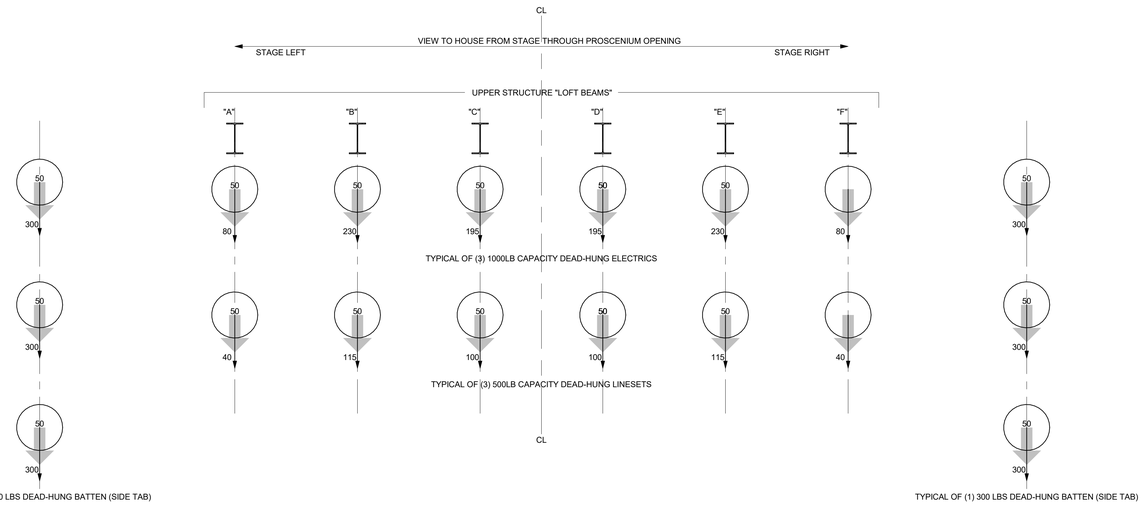


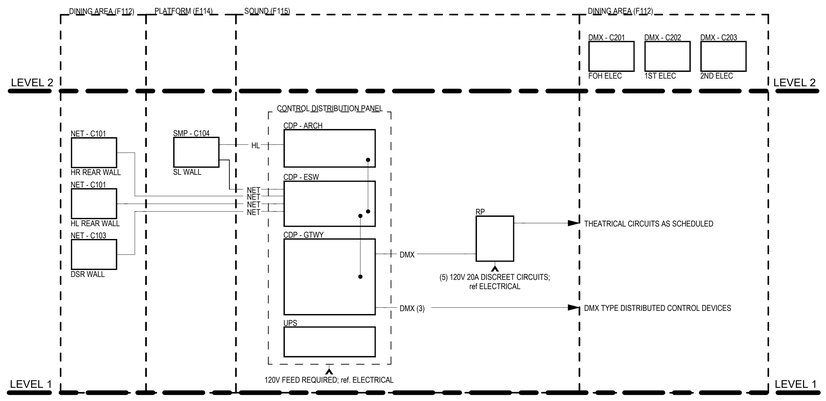
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION SO THAT LOADS ARE PROPERLY LANDED INSIDE RELAY PANEL TO ACHIEVE PROPER FUNCTION OF THE ETHERNET LIGHING NETWORK.
2. PROVIDE UPS BACKUP FOR DMX DISTRIBUTION, ARCHITECTURAL LIGHTING CONTROL PROCESSOR AND LIGHTING CONTROL CONSOLES.
3. TERMINATE ALL FIVE PINS OF EACH DMX INPUT AND OUTPUT.
4. PROVIDE PROPER AMOUNTS OF CABLE SLACK AFTER TERMINATION FOR FUTURE UPGRADE OF LIGHTING SYSTEM.

DEVICE SIGNAL FLOW DETAIL







2 THEATRICAL RIGGING LOADING DIAGRAM
NTS

1 THEATRICAL LIGHTING CONTROL RISER DIAGRAM
NTS

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THEATRICAL LIGHTING CONTROL RISER & RIGGING LOADING DIAGRAM

VOLUME 2

Job No. 00802-04-01	Sheet No. TS16.01
Drawn By: WJHW	
Date: 07.15.26	

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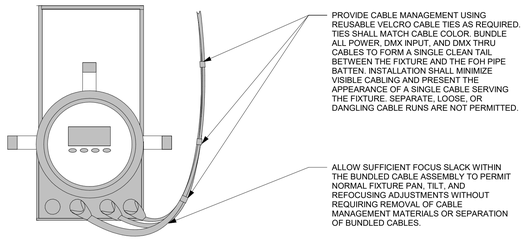
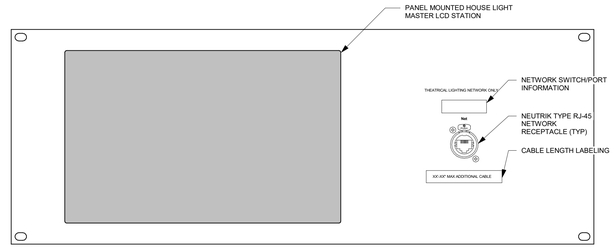
TL CONTROL DEVICE SCHEDULE

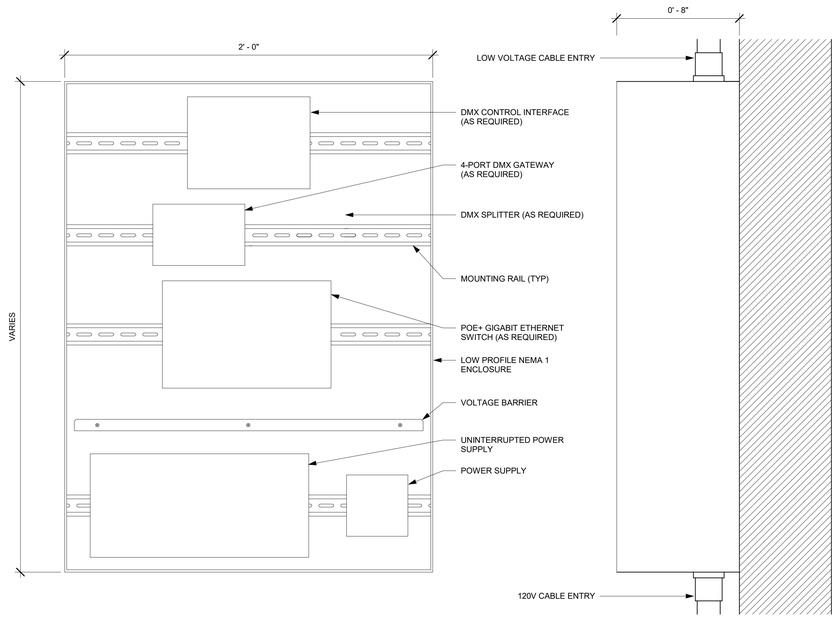
ID DESIGNATOR	TYPE ID	LOCATION	MOUNTING	WIRING DESTINATION	NOTES
C101	NET	HR REAR WALL	RECESSED AT PRH	ESW	--
C102	NET	HL REAR WALL	RECESSED AT PRH	ESW	--
C103	NET	DSR WALL	RECESSED AT PRH	ESW	--
C104	SMP	DSL WALL	RACK MOUNTED	ARCH ; ESW	WITHIN A/V RACK; COORDINATE WITH 27 41 16 SCOPE OF WORK
C201	DMX	FOH ELECTRIC	PIPE	GTWY	--
C202	DMX	1ST ELECTRIC	PIPE	GTWY	--
C203	DMX	2ND ELECTRIC	PIPE	GTWY	--



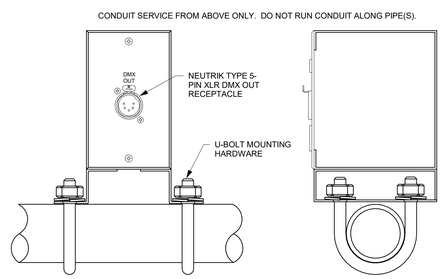
5 FIXTURE CABLE MANAGMENT TAILS
3" = 1'-0"



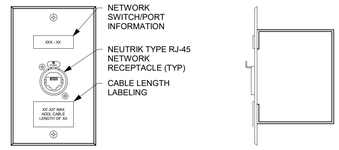
3 SMP (STAGE MANAGERS PANEL)(WITHIN A/V RACK)
6" = 1'-0"



4 CONTROL DISTRIBUTION PANEL (CDP)
3" = 1'-0"



2 DMX DETAIL
6" = 1'-0"



1 NET DETAIL
6" = 1'-0"

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CONTROL DETAILS AND SCHEDULE

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Drawn By: WJHW	TS16.10
Date: 07.15.26	

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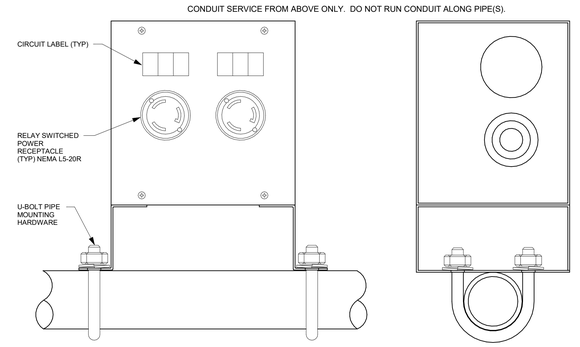
TL DISTRIBUTION DEVICE SCHEDULE						
ID DESIGNATOR	TYPE ID	CIRCUIT LABELS	LOCATION	RP DESTINATION	LOAD TYPE	NOTES
D201	PB	1	FOH ELECTRIC	1	PORTABLE	--
D203	PB	2-3	1ST ELECTRIC	2-3	PORTABLE	--
D204	PB	4	2ND ELECTRIC	4	PORTABLE	--

CONDUIT SERVICE FROM ABOVE ONLY. DO NOT RUN CONDUIT ALONG PIPE(S).



1 PB DETAIL
6" = 1'-0"

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DISTRIBUTION DETAILS AND SCHEDULE

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