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FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

ISSUE FOR BID AND PERMIT

09/16/2025

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ARCHITECTURE

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SEPTEMBER 2025

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

FORT BEND 2023 BOND
INDEPENDENT SCHOOL DISTRICT

BOARD OF TRUSTEES

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SUPERINTENDENT
DR. MARC SMITH

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MATERIAL INDICATIONS

SECTION	ELEVATION	
		CONCRETE
		PRECAST CONCRETE
		CMU
		BRICK
		CAST/CUT STONE
		NATURAL STONE
		FINISHED WOOD
		METAL LATH & PLASTER
		CERAMIC/QUARRY TILE
		GLASS/MIRROR
		STEEL
		ALUMINUM
		BRASS/BRONZE
		GRADE/EARTH
		GRAVEL
		SAND
		CONT. WOOD BLOCKING
		DISCONT. WOOD SHIM
		PLYWOOD

SPRAYED FIREPROOFING
BATT/BLANKET INSUL.
RIGID INSUL.
GYPSUM SHEATHING
GYPSUM WALLBOARD
BACKER ROD & SEALANT
JOINT FILLER
ACOUS. CEILING
MINERAL WOOL

FINISH PLAN SYMBOLS

ROOM NAME ###-#
ROOM SYMBOL - FINISH PLAN

###-# WALL FINISH NOTE
###-# FLOOR FINISH
###-# BASE FINISH NOTE

###-# / ###-# FINISH TRANSITION

###-# WALL FINISH NOTE / ###-# BASE FINISH NOTE
FINISH NOTE

###-# WALL FINISH NOTE

###-# FLOOR FINISH NOTE

###-# BASE FINISH NOTE

FLOOR FINISH START POINT

DEMO PLAN SYMBOLS

EXISTING DOOR, PARTITION AND/OR ELEMENT TO REMAIN-PROTECTED AGAINST DAMAGE DURING DEMOLITION

EXISTING DOOR, PARTITION AND/OR ELEMENT TO BE REMOVED / RELOCATED

LIFESAFETY PLAN SYMBOLS

130 / 340 — TOP NUMBER: ACTUAL NUMBER OF OCCUPANTS USING THE STAIR FOR EGRESS; BOTTOM NUMBER: EGRESS CAPACITY OF STAIR (BASED ON IBC 1005.3.1) — OCCUPANCY LOAD (STAIR)

130 / 340 — TOP NUMBER: ACTUAL NUMBER OF OCCUPANTS USING THE OPENING FOR EGRESS; BOTTOM NUMBER: EGRESS CAPACITY OF OPENING (BASED ON IBC 1005.3.2) — OCCUPANCY LOAD (DOOR)

3.01 — AREA NUMBER; OCC TYPE = A-1 — OCCUPANT TYPE; OCCUPANTS = 250 — TOTAL OCCUPANTS — AREA TAG

TRAVEL DISTANCE = 000'-0" (MAX T.D. = 000'-0")
COMMON PATH OF EGRESS = 000'-0" (MAX C.P.E. = 000'-0")
DEAD END CORRIDOR = 000'-0" (MAX D.E.C. = 000'-0")
EGRESS PATHS

NR	NON RATED PARTITION	0S	0 HOUR SMOKE PARTITION
1F	1 HOUR FIRE RATED PARTITION/BARRIER	1S	1 HOUR SMOKE BARRIER
2F	2 HOUR FIRE RATED BARRIER	2S	2 HOUR SMOKE BARRIER
3F	3 HOUR FIRE RATED BARRIER	3S	3 HOUR SMOKE BARRIER
FE-1 / FEC-1	FIRE EXTINGUSHER CABINET	_ERT	EMERGENCY RESPIRATOR
FE001	FIRE EXTINGUSHER	_ES	EMERGENCY SHOWER + EYE WASH
FE001	FIRE HOSE OR STANDPIPE CONNECTION	_EW	EYE WASH
FHC-1	FIRE HOSE CABINET WITH EXTINGUISHER	_EP	EAR PROTECTION
_FA	FIRST AID CABINET	_EW	EYE WEAR
_AED	AUTOMATED EXTERNAL DEFIBRILLATOR (AED) CABINET	_FP	FALL PROTECTION
KB / _KB	KNOX BOX	_MR PT	MUSTER STATION
_FB	FIRE BLANKET	_SM	SMOKING AREA
_ES	EMERGENCY SHOWER		

POWER PLAN SYMBOLS

WALL MOUNTED DEVICES

- WALL MOUNTED - SINGLE RECEPTACLE
- WALL MOUNTED - DUPLEX RECEPTACLE
- WALL MOUNTED - DUPLEX RECEPTACLE WITH USB PORT
- WALL MOUNTED - QUADRAPLEX RECEPTACLE
- WALL MOUNTED - 220 VOLT RECEPTACLE
- WALL MOUNTED - SPECIAL REQUIREMENT RECEPTACLE
- WALL MOUNTED - DATA RECEPTACLE
- WALL MOUNTED - VOICE RECEPTACLE
- WALL MOUNTED - DATA/VOICE RECEPTACLE
- WALL MOUNTED - POWER FURNITURE FEED
- WALL MOUNTED - DATA/VOICE FURNITURE FEED
- WALL MOUNTED - JUNCTION BOX
- AV — WALL MOUNTED - SPECIALTY DEVICE & JUNCTION BOX
- T — WALL MOUNTED - THERMOSTAT
- CR — WALL MOUNTED - CARD READER
- BR — WALL MOUNTED - BIOMETERIC READER
- IC — WALL MOUNTED - INTERCOM
- $ — WALL MOUNTED - LIGHT SWITCH
- TV — RECESSED WALL MOUNTED TV BACK BOX
- WALL MOUNTED - OFFICE DESK AV & POWER OUTLETS, SEE LEGEND ON POWER/DATA PLANS
- HS — WALL MOUNTED - HUDDLE SPACE AV & POWER OUTLETS, SEE LEGEND ON POWER/DATA PLANS
- CP — WALL MOUNTED - COPIER AV & POWER OUTLETS, SEE LEGEND ON POWER/DATA PLANS

FLOOR MOUNTED DEVICES

- FLOOR MOUNTED - SINGLE RECEPTACLE
- FLOOR MOUNTED - DUPLEX RECEPTACLE
- FLOOR MOUNTED - QUADRAPLEX RECEPTACLE
- FLOOR MOUNTED - 220 RECEPTACLE
- FLOOR MOUNTED - SPECIAL REQUIREMENT RECEPTACLE
- FLOOR MOUNTED - DATA RECEPTACLE
- FLOOR MOUNTED - VOICE RECEPTACLE
- FLOOR MOUNTED - DATA/VOICE RECEPTACLE
- FLOOR MOUNTED - COMBINATION DUPLEX & DATA/VOICE RECEPTACLE
- FLOOR MOUNTED - COMBINATION QUADRAPLEX & DATA/VOICE RECEPTACLE
- AV — FLOOR MOUNTED - COMBINATION DUPLEX, DATA/VOICE, & AV RECEPTACLE
- AV — FLOOR MOUNTED - COMBINATION QUADRAPLEX, DATA/VOICE, & AV RECEPTACLE
- FLOOR MOUNTED - POWER STUB-UP
- FLOOR MOUNTED - DATA/VOICE STUB-UP
- FLOOR MOUNTED - AV STUB-UP
- FLOOR MOUNTED - COMBINATION POWER & DATA/VOICE STUB-UP
- FLOOR MOUNTED - COMBINATION POWER, DATA/VOICE, & AV STUB-UP
- FLOOR MOUNTED - POWER FURNITURE FEED
- FLOOR MOUNTED - DATA/VOICE FURNITURE FEED
- FLOOR MOUNTED - AV FURNITURE FEED
- FLOOR MOUNTED - COMBINATION POWER & DATA/VOICE FURNITURE FEED
- FLOOR MOUNTED - COMBINATION POWER, DATA/VOICE, & AV FURNITURE FEED
- PP — CEILING MOUNTED - POWER POLE

TABLETOP DEVICES

- TABLETOP - SINGLE RECEPTACLE
- TABLETOP - DUPLEX RECEPTACLE
- TABLETOP - QUADRAPLEX RECEPTACLE
- TABLETOP - SPECIAL REQUIREMENT RECEPTACLE
- TABLETOP - DATA RECEPTACLE
- TABLETOP - VOICE RECEPTACLE
- TABLETOP - DATA/VOICE RECEPTACLE
- TABLETOP - COMBINATION DUPLEX & DATA/VOICE RECEPTACLE
- TABLETOP - COMBINATION QUADRAPLEX & DATA/VOICE RECEPTACLE
- AV — TABLETOP - COMBINATION DUPLEX, DATA/VOICE, & AV RECEPTACLE
- AV — TABLETOP - COMBINATION QUADRAPLEX, DATA/VOICE, & AV RECEPTACLE

SECURITY SYMBOLS

- W — SECURITY CAMERA - WALL MOUNTED - FIXED
- W — SECURITY CAMERA - WALL MOUNTED - PAN
- C — SECURITY CAMERA - CEILING MOUNTED - FIXED
- C — SECURITY CAMERA - CEILING MOUNTED - PAN
- PH — PANIC HARDWARE
- MD — MOTION DETECTOR
- ML — FAIL-SAFE MAGNETIC LOCK
- ES — ELECTRIC STRIKE
- EM — ELECTRIC MORTISE LOCK
- DC — DOOR CONTACT
- CR — CARD READER
- BR — BIOMETERIC READER
- EC — EMERGENCY CALL BUTTON
- RE — REQUEST TO EXIT BUTTON

FLOOR PLAN SYMBOLS

EXISTING DOOR, PARTITION AND/OR ELEMENT TO REMAIN-PROTECTED AGAINST DAMAGE DURING CONSTRUCTION

1234B — NEW DOOR, PARTITION AND/OR ELEMENT DOOR NUMBER (RE: DOOR SCHEDULE FOR TYPE AND HARDWARE INFORMATION.) (RE: DOOR MANEUVERING CLEARANCES SHEET)

N — NORTH ARROW

A5/A3.10 — BUILDING ELEVATION / INTERIOR ELEVATION

A5 / A2 A8.10 A4 / A3 — INTERIOR ELEVATION

A5 SIM A4.10 — DETAIL NUMBER - TYP; SHEET NUMBER - TYP
A5/A4.10 SIM — SHEET NUMBER - TYP; DETAIL NUMBER - TYP
BUILDING SECTION

A5 SIM A4.20 — A5/A4.20 SIM
WALL SECTION

A5 SIM A5.20
SECTION DETAIL

A5 SIM A5.20 — A5/A2.70 SIM
ENLARGED PLAN / DETAIL

ROOM NAME 101
ROOM IDENTIFICATION

BB8 1F — TYPE; HOUR RATING — AB3 a 1F
PARTITION TYPE (RE: PARTITION SCHEDULE FOR DESCRIPTION)

NR - NOT RATED
1F - 1 HOUR FIRE RATED
2F - 2 HOUR FIRE RATED
3F - 3 HOUR FIRE RATED
0S - 0 HOUR SMOKE PARTITION
1S - 1 HOUR SMOKE PARTITION
2S - 2 HOUR SMOKE PARTITION
3S - 3 HOUR SMOKE PARTITION

XM1 NR — TYPE; HOUR RATING — XM1.25 NR
EXTERIOR WALL TYPE (RE: WALL TYPE SCHEDULE FOR DESCRIPTION)

IF INCLUDED, NUMBER AFTER DECIMAL REFERS TO CONTINUOUS INSULATION THICKNESS

.10 - 1" CONTINUOUS INSULATION
.15 - 1.5" CONTINUOUS INSULATION
.20 - 2" CONTINUOUS INSULATION
.25 - 2.5" CONTINUOUS INSULATION
.30 - 3" CONTINUOUS INSULATION
.35 - 3.5" CONTINUOUS INSULATION

ALIGN — ALIGN

BRK-1 / TA-1.1 / GL-1 — MASTER SCHEDULE NOTE: REFER TO SHEET A0.70.
BRICK - TYPE 1
TOILET ACCESSORY - TYPE 1.1
GLASS - TYPE 1

CW-##.## — CURTAINWALL TYPE
ABC — WINDOW TYPE
LVR-# — LOUVER TYPE

CASEWORK / COUNTERTOP TYPE
(S) SINGLE DOOR
(D) DOUBLE DOOR
100 D PL-1 — FINISH
MILLWORK / CASEWORK NOTE

— KEY NOTE

P.## FLOOR PLAN NOTE
R.## REFLECTED CEILING PLAN NOTE
PW.## POWER PLAN NOTE
F.## FINISH PLAN NOTE
D.## DEMO PLAN NOTE
S.## SITE PLAN NOTE
E.## EQUIPMENT PLAN NOTE
FN.## FURNITURE PLAN NOTE
SHEET NOTE LINKED TO SPECIFICATION SECTION. FIRST NUMBER REFERENCES THE CSI DIVISION

SH — SHOWER HEAD

REVISION CLOUD
1 — REVISION NUMBER

CEILING PLAN SYMBOLS

ROOM NAME ###-# / ###-# CEILING FINISH
ROOM SYMBOL - CEILING PLAN

ROOM NAME ###-# / ###-# CEILING FINISH / ###-# CEILING HEIGHT
ROOM SYMBOL - CEILING PLAN

#'-##" — CEILING HEIGHT - ABOVE FINISH FLOOR (AFF)

SUSPENDED ACOUSTICAL CEILING GRID

SUSPENDED GYPSUM CEILING

STRETCHED FABRIC CEILING SYSTEM

EXIT SIGN - CEILING MOUNTED (ARROWS INDICATES DIRECTION OF EGRESS)

EXIT SIGN - WALL MOUNTED (ARROWS INDICATES DIRECTION OF EGRESS)

CEILING GRID START POINT

APC-1 — CEILING FINISH TYPE

XXX-X / XXX-X — CEILING TRANSISTION

- S — SPEAKER
- M — MICROPHONE
- AV — AUDIO VISUAL DEVICE
- LS — LIGHT SENSOR
- WN — WHITE NOISE EMITTER
- WA — WIRELESS ACCESS POINT
- PS — PHOTOCELL SENSOR

LIGHTING SYMBOLS

LIGHTING SYMBOLS ARE GENERIC REPRESENTATIONS

A / A' — FIXTURE DESIGNATION (TYPICAL - IF REQUIRED)

- A — TROFFER
- C — COVE
- D — DOWNLIGHT
- F — FLOOR
- G — GARAGE
- H — SCONCE
- M — MECH / ELEC / UTILITY STRIP
- P — PENDANT
- SA — SITE - POLE
- SB — SITE - MISC (ARCHITECTURAL / BUILDING)
- U — UNDER CABINET / UPPER CABINET
- V — VERTICAL
- W — WALL WASHER
- X — EXIT LIGHTING
- Z — MISC / OTHER

NOTIFICATION TO GENERAL CONTRACTOR

THE INTER RELATION OF THE SPECIFICATIONS AND THE DRAWINGS: THE SPECIFICATIONS DETERMINES THE QUALITY, NATURE AND SETTING OF MATERIALS; THE DRAWINGS ESTABLISH THE QUANTITIES, DIMENSIONS AND DETAILS. THE DOCUMENTS ARE TO BE CONSIDERED AS ONE AND WHATEVER IS CALLED FOR BY ANY ONE SHALL BE AS BINDING AS IF CALLED FOR BY ALL.
SHOULD THE DRAWINGS DISAGREE IN THEMSELVES, OR WITH THE SPECIFICATIONS, OR IF PROPRIETARY INFORMATION DISAGREES WITH PERFORMANCE REQUIREMENTS IN EITHER THE DRAWINGS OR THE SPECIFICATIONS, THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK OR MATERIALS SHALL BE ESTIMATED UPON. SHOULD DISCREPANCIES OR DOUBT OCCUR, REQUEST CLARIFICATION FROM THE ARCHITECT. CONTRACTOR SHALL REQUEST CLARIFICATION IN SUFFICIENT TIME TO AVOID DELAYS AND INCREASES IN THE CONTRACT SUM.

REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

IF A DIMENSIONAL DISCREPANCY EXISTS, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK. UPON COMMENCEMENT OF ANY ITEM OF WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONS RELATED TO SUCH ITEM OF WORK AND SHALL MAKE ANY CORRECTIONS NECESSARY TO MAKE WORK PROPERLY FIT AT NO ADDITIONAL COST TO OWNER.
BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, CONTRACTOR SHALL VERIFY DIMENSIONS AND CHECK CONDITIONS IN ORDER TO ASSURE THAT THEY PROPERLY REFLECT THOSE ON THE DRAWINGS. ANY INCONSISTENCY SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT. IN THE EVENT THAT DISCREPANCIES OCCUR BETWEEN ORDERED MATERIAL AND ACTUAL CONDITIONS, OF WHICH ARCHITECT WAS NOT NOTIFIED BEFOREHAND, COSTS TO CORRECT SUCH DISCREPANCIES SHALL BE BORNE BY CONTRACTOR.

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These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

REGISTERED ARCHITECT — JOHN L. SERPA — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND 2025 BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
GRAPHIC STANDARDS

SHEET NUMBER
A0.10

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A

AB	ANCHOR BOLT
AC	ACOUSTICAL SEALANT
ACC	ARCHITECTURAL CAST IN PLACE CONCRETE
ACM	ALUMINUM COMPOSITE METAL
ACOUS	ACOUSTICAL
ADJUST	ADJUSTABLE
ADJ	ADJACENT
AD	ACCESS DOOR
AF	ACCESS FLOORING
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANG	ANGLE
ANOD	ANODIZED
APPROX	APPROXIMATELY
APC	ACOUSTICAL PANEL CEILING
ARCH	ARCHITECT/ARCHITECTURAL
ASPH	ASPHALT
ATC	ACRYLIC TEXTURED COATING
ATN	ATTENUATION/ATTENUATING
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
A/C	AIR CONDITIONING
A/V	AUDIO VISUAL

B

B	BASE
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLK	BLOCK
BM	BEAM
BOT	BOTTOM
B.O.	BOTTOM OF
BR	BICYCLE RACK
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
BTW	BETWEEN
B&B	BALLED & BUR LAPPED
B-B	BACK TO BACK
B.M.	BENCH MARK
B/F	BOTH FACES

C

CAB	CABINET
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CER	CERAMIC
CFMF	COLD FORMED METAL FRAMING
CFT	CORK FLOOR TILE
CIP	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CKBD	CHALKBOARD
CLG	CEILING
CLR	CLEAR(ANCE)
CL	CLOSET
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
COMPRESS	COMPRESSIBLE
COMP	COMPOSITION
CONC	CONCRETE
COND	CONDITION
CONF	CONFERENCE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CONT	CONTINUOUS
CORRU	CORRUGATED
CORR	CORRIDOR
CPS	CARPET SHEET
CPT	CARPET TILE
CSM	CAST STONE MASONRY
CSMT	CASEMENT
CTR	CENTER
CTSK	COUNTERSUNK
CU FT	CUBIC FOOT (FEET)
CU YD	CUBIC YARD
CW	COLD/CHILLED WATER
C-C	CENTER TO CENTER
C.O.	CASED OPENING

D

D.###	SHEET NOTE - DEMO PLAN
D	DEEP/DEPTH
DBL	DOUBLE
DEFL	DEFLECTION
DEFS	DECORATIVE EXTERIOR FINISH
DF	DRINKING FOUNTAIN
DGL	DECORATIVE GLASS
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DISP	DISPENSER
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSC	DIMENSIONAL STONE CLADDING
DTL	DETAIL
DWG(S)	DRAWING(S)

E

EA	EACH
EFOB	EXTERIOR FACE OF BUILDING
EJ	EXPANSION JOINT
ELAS	ELASTIC (ELASTOMERIC)
ELEC	ELECTRICAL
ELEV	ELEVATOR
EL	ELEVATION
ELAST	ELASTOMERIC
EM	ENTRANCE FLOOR MATS
EMER	EMERGENCY
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXPAN	EXPANSION
EXP	EXPOSED
EXT	EXTERIOR

F

F.###	SHEET NOTE - FINISH PLAN
FN.###	SHEET NOTE - FURNITURE PLAN
FA	FIRE ALARM
FC	FIRE CODE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER, BRACKET
FEC	FIRE EXTINGUISHER, CABINET
FG	ENTRANCE FLOOR GRILLES
FH	FIRE HYDRANT
FIN	FINISH/FINISHED
FIXT	FIXTURE
FLRG	FLOORING
FLR	FLOOR
FLSHG	FLASHING
F.P.W.	FLOOD PROTECTION WALL
FL	FLOW LINE
FM	FACTORY MUTUAL
FND	FOUNDATION
FR GL	FRITTED GLASS
FRP	FIBER REINFORCED PLASTIC
FRPF	FIREPROOF(ING)
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FS	FULL SIZE
FTG	FOOTING
FT	FOOT (FEET)
FURN	FURNISH
FURR	FURRED/FURRING
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
FWP	FABRIC WRAPPED WALL PANELS

G

GALV	GALVANIZED
GAL	GALLON
GA	GAUGE
GC	GENERAL CONTRACTOR
GD	GUARD
GEN	GENERAL
GF	GLASS FILM
GI	GALVANIZED IRON
GL	GLASS, GLAZING
GL BLK	GLASS BLOCK
GMP	GUARANTEED MAXIMUM PRICE
GR	GRADE, GRADING
GRP	GRAVEL
GRT	GROUT
GSF	GLAZING SURFACE FILM
GSF	GROSS SQUARE FOOT
GYP	GYPSUM

H

HB	HOSE BIBB
HC	HOLLOW CORE
HDCP	HANDICAPPED
HDWR	HARDWARE
HD	HEAD
HFS	HALF FULL SIZE
HLB	HORIZONTAL LOUVER BLINDS
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HVAC	HEATING/VENTILATING/AC
HW	HOT WATER
HYD	HYDRANT

I

ID	INSIDE DIAMETER
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IN	INCH
IPS	INSIDE PIPE SIZE

J

JAN	JANITOR
JST	JOIST
JT	JOINT

L

LAM	LAMINATE(D)
LAV	LAVATORY
LGTH	LENGTH
LH	LEFT HAND
LV	LEVEL
LIN	LINEAR
LL	LIVE LOAD
LT	LIGHT
LVR	LOUVER
LWT	LIGHTWEIGHT

M

M	METER
MM	MILLIMETER
MACH	MACHINE
MAINT	MAINTENCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEJ	MASONRY EXPANSION JOINT
MEP	MECHANICAL, ELECTRICAL PLUMBING
MF	METAL FINISHES
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MLDG	MOULDING
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MSV	MANUFACTURED STONE VENEER
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MWP	METAL WALL PANEL

N

NIC	NOT IN CONTRACT
NOM	NOMINAL
NO. OR #	NUMBER
NRA	NET RENTABLE SQUARE FOOT
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O

OA	OVERALL
OC	ON CENTER(S)
OCD	OVERHEAD COILING DOOR
OCG	OVERHEAD COILING GRILLES
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED/ OWNER INSTALLED
OH	OVERHEAD
OP	OPERABLE PARTITION
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
O.S.	OVERFLOW SCUPPER
O/A	OUTSIDE AIR

P

P.###	SHEET NOTE - FLOOR PLAN
PW.###	SHEET NOTE - POWER PLAN
PAC	ARCHITECTURAL PRECAST CONCRETE
PART	PARTITION
PC	POLISHED CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PREFINISHED DECORATIVE PANELS
PERF	PERFORATED
PLAST	PLASTER
PLAS	PLASTIC
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PRKG	PARKING
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
PTS	PAINTED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
P.L.	PROPERTY LINE
PL	PLASTIC LAMINATE
P/C	PRECAST
PFP	PREFINISHED PANEL

Q

QT	QUARRY TILE

R

R.###	SHEET NOTE - REFLECTED CEILING PLAN
R	RISER
RAD	RADIUS
RBA	RESILIENT BASE AND ACCESSORY
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECEPT	RECEPTION
RECEP	RECEPTACLE
RECOM	RECOMMENDATION
REC	RECESSED
REG	REGULATION
REINF	REINFORCED
REQD	REQUIRED
RET	RETURN
REV	REVISION
RE	REFER TO
RF	RESINOUS FLOORING
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROLLER SHADE
RSF	RESILIENT SHEET FLOORING
RSF	RENTABLE SQUARE FOOT
RTF	RESILIENT TILE FLOORING
R/AG	RETURN AIR GRILLE
R/A	RETURN AIR

S

S.###	SHEET NOTE - SITE
SAWU	SOUND ABSORBING WALL UNITS
SCHED	SCHEDULE(D)
SC	STAINED CONCRETE
SECT	SECTION
SF	SQUARE FEET
SHLV	SHELVES/SHELVING
SHTHG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SKY	SKYLIGHT
SMV	STONE MASONRY VENEER
SPEC	SPECIFICATION
SQ	SQUARE
SS	SOILD SURFACE
SSTL	STAINLESS STEEL
STA	STATION
STAB	STABILIZE(D)
STC	SOUND TRANSMISSION COEFFICIENT
STC	STONE COUNTERTOP
STF	STONE FACING
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE/STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
S/AD	SUPPLY AIR DIFFUSER

T

T	TREAD
TA	TOILET ACCESSORY
TCOC	TEXTURE COATING ON CONCRETE
TC	TRAFFIC COATING
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK(NESS)
THRES	THRESHOLD
TKBD	TACK BOARD
T.O.	TOP OF
TOS	TOP OF STEEL
TOSS	TOP OF STRUCTURAL SLAB
TR	TRIM (METAL EDGE TRIM)
TRANS	TRANSFORMER
TS	TUBE STEEL
TTC	TELEPHONE TERMINAL CABINET
TUC	TILT-UP CONCRETE
TV	TELEVISION
TYP	TYPICAL

U

UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPH	UPHOLSTERY
UR	URINAL

V

VAC	VACUUM
VERT	VERTICAL
VEST	VESTIBULE
VLB	VERTICAL LOUVER BLINDS

W

WC	WALL COVERING
WCD	WALL COVERING - DRY ERASE
WDW	WINDOW
WD	WOOD
WDV	WOOD VENEER
WF	WIDE FLANGE
WFA	WOOD ATHLETIC FLOORING
WFE	ENGINEERED WOOD PLANK FLOORING
WH	WALL HUNG
WI	WROUGHT IRON
WP	WALL PROTECTION
WR	WATER REPELLENTS
WWF	WELDED WIRE FRABIC
W.P.	WORK POINT
W/I	WITHIN
W/O	WITHOUT
W/	WITH

X

XFMR	TRANSFORMER

#	SHEET NAME	DATE	REVISION
GENERAL			
A0.00	COVER SHEET	09/16/2025	ISSUE FOR BID AND PERMIT
A0.10	GRAPHIC STANDARDS	09/16/2025	ISSUE FOR BID AND PERMIT
A0.11	ABBREVIATIONS AND SHEET INDEX	09/16/2025	ISSUE FOR BID AND PERMIT
A0.20	BUILDING AND ENERGY CODE	09/16/2025	ISSUE FOR BID AND PERMIT
A0.31	LIFE SAFETY PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A0.32	LIFE SAFETY PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A0.60	REFERENCE (MOUNTING HEIGHTS)	09/16/2025	ISSUE FOR BID AND PERMIT
A0.61	REFERENCE (MOUNTING HEIGHTS)	09/16/2025	ISSUE FOR BID AND PERMIT
A0.70	MASTER SCHEDULE	09/16/2025	ISSUE FOR BID AND PERMIT
CIVIL			
C0.00	COVER	09/16/2025	ISSUE FOR BID AND PERMIT
C0.01	CIVIL GENERAL CONSTRUCTION NOTES	09/16/2025	ISSUE FOR BID AND PERMIT
C1.00	PLAT	09/16/2025	ISSUE FOR BID AND PERMIT
C1.01	TOPOGRAPHIC SURVEY	09/16/2025	ISSUE FOR BID AND PERMIT
C1.02	CIVIL SITE DEMOLITION PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C1.03	IMPERVIOUS AREAS	09/16/2025	ISSUE FOR BID AND PERMIT
C2.00	CIVIL SITE PAVEMENT, DIMENSIONAL CONTROL, & JOINTING PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C2.01	SITE EROSION CONTROL PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C2.02	SITE FIRE APPARATUS ACCESS PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C3.00	SITE GRADING PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C4.00	OVERALL SITE UTILITY PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C5.00	SITE DRAINAGE PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
C7.00	CIVIL DETAILS (1 OF 2)	09/16/2025	ISSUE FOR BID AND PERMIT
C7.01	CIVIL DETAILS (2 OF 2)	09/16/2025	ISSUE FOR BID AND PERMIT
STRUCTURAL			
S0.01	3D VIEW AND SHEET LIST	09/16/2025	ISSUE FOR BID AND PERMIT
S1.01	GENERAL STRUCTURAL CRITERIA	09/16/2025	ISSUE FOR BID AND PERMIT
S1.02	GENERAL STRUCTURAL CRITERIA	09/16/2025	ISSUE FOR BID AND PERMIT
S2.01	FOUNDATION PLAN - OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
S2.01A	ENLARGED FOUNDATION DEMO PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
S2.01B	FOUNDATION PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
S2.02	MEZZANINE FRAMING PLAN - OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
S2.02A	ENLARGED LOW ROOF DEMO PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
S2.02B	MEZZANINE FRAMING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
S2.03	ROOF FRAMING PLAN - OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
S2.03A	ROOF FRAMING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
S3.01	FOUNDATION, COLUMN AND BASEPLATE SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
S4.01	TYPICAL SLAB ON GRADE DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S4.02	TYPICAL GB AND CF DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S4.03	FOUNDATION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S4.04	FOUNDATION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S4.05	SITE DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S5.01	TYPICAL STEEL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S5.02	TYPICAL CMU WALL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S6.01	TYPICAL COMPOSITE DECK DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S6.02	TYPICAL COMPOSITE DECK DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S7.01	TYPICAL STEEL ROOF DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
S7.02	STEEL ROOF DETAILS (PARAPET)	09/16/2025	ISSUE FOR BID AND PERMIT
ARCHITECTURAL			
A1.10	SITE DEMOLITION PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A1.20	SITE PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A2.11	DEMOLITION FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A2.21	LEVEL 1 - COMPOSITE FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A2.22	LEVEL 2 - COMPOSITE FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A2.23	ROOF PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
A2.31	LEVEL 1 - FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
A2.32	LEVEL 1 - FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
A2.33	LEVEL 1 - FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
A2.34	LEVEL 2 - FLOOR PLAN - AREA B2 & MECH. MEZZ.	09/16/2025	ISSUE FOR BID AND PERMIT
A2.41	LEVEL 1 - REFLECTED CEILING PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
A2.42	LEVEL 1 - REFLECTED CEILING PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
A2.43	LEVEL 1 - REFLECTED CEILING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
A2.44	LEVEL 2 - REFLECTED CEILING PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
A2.45	LEVEL 2 - REFLECTED CEILING PLAN - AREA B2 ALT	09/16/2025	ISSUE FOR BID AND PERMIT
A2.61	LEVEL 1 - FINISH PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
A2.62	LEVEL 1 - FINISH PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
A2.63	LEVEL 1 - FINISH PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
A2.71	ENLARGED PLANS - ART ROOMS	09/16/2025	ISSUE FOR BID AND PERMIT
A2.70	ENLARGED PLANS - ART ROOMS	09/16/2025	ISSUE FOR BID AND PERMIT
A3.10	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A4.10	BUILDING SECTIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A4.20	WALL SECTIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A5.10	EXTERIOR PLAN DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
A5.20	EXTERIOR SECTION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
A5.30	ROOF DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
A6.20	DOOR SCHEDULE, DOOR LEAF, & FRAME TYPE, WINDOW TYPES AND GLAZING SCHEDULE	09/16/2025	ISSUE FOR BID AND PERMIT
A6.30	HARDWARE SCHEDULE	09/16/2025	ISSUE FOR BID AND PERMIT
A6.60	PARTITION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
A8.10	INTERIOR ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A8.11	INTERIOR ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A8.12	INTERIOR ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A8.13	INTERIOR ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
A10.10	COMMERCIAL CASEWORK (LEGEND & SCHEDULES)	09/16/2025	ISSUE FOR BID AND PERMIT
A10.11	MILLWORK DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
SIGNAGE			
SG2.11	SIGNAGE LOCATION PLANS & SCHEDULE	09/16/2025	ISSUE FOR BID AND PERMIT
SG2.14	SIGNAGE GENERAL NOTES	09/16/2025	ISSUE FOR BID AND PERMIT
SG2.15	SIGNAGE GENERAL NOTES	09/16/2025	ISSUE FOR BID AND PERMIT
SG2.16	SIGNAGE DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
SG2.17	SIGNAGE DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
MECHANICAL			
M0.00	MECHANICAL LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
M1.10	LEVEL 1 MECHANICAL DEMOLITION PLAN OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
M1.11	LEVEL 1 MECHANICAL DEMOLITION PLAN - FIELD HOUSE	09/16/2025	ISSUE FOR BID AND PERMIT
M1.12	LEVEL 1 MECHANICAL DEMOLITION PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
M1.13	LEVEL 1 MECHANICAL DEMOLITION PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
M1.14	LEVEL 1 MECHANICAL DEMOLITION PLAN - MECH YARD	09/16/2025	ISSUE FOR BID AND PERMIT
M1.20	LEVEL 2 MECHANICAL DEMOLITION PLAN OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
M1.21	LEVEL 2 MECHANICAL DEMOLITION PLAN - CENTRAL PLANT	09/16/2025	ISSUE FOR BID AND PERMIT
M1.22	LEVEL 2 MECHANICAL DEMOLITION PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
M2.10	LEVEL 1 OVERALL MECHANICAL PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
M2.11	LEVEL 1 MECHANICAL PLAN - FIELD HOUSE	09/16/2025	ISSUE FOR BID AND PERMIT
M2.12	LEVEL 1 MECHANICAL PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
M2.13	LEVEL 1 MECHANICAL PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
M2.14	LEVEL 1 MECHANICAL PLAN - MECH YARD	09/16/2025	ISSUE FOR BID AND PERMIT
M2.15	LEVEL 1 MECHANICAL PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
M2.20	LEVEL 2 OVERALL MECHANICAL PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
M2.21	LEVEL 2 MECHANICAL PLAN - CENTRAL PLANT	09/16/2025	ISSUE FOR BID AND PERMIT
M2.22	LEVEL 2 MECHANICAL PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
M2.23	LEVEL 2 MECHANICAL PLAN - ART	09/16/2025	ISSUE FOR BID AND PERMIT
M4.00	MECHANICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
M4.10	MECHANICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
M5.00	MECHANICAL SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
M5.01	MECHANICAL SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
M6.01	MECHANICAL CONTROLS	09/16/2025	ISSUE FOR BID AND PERMIT
M6.02	MECHANICAL CONTROLS	09/16/2025	ISSUE FOR BID AND PERMIT
ELECTRICAL			
E0.00	ELECTRICAL LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
E1.10	SITE DEMOLITION PLAN - ELECTRICAL	09/16/2025	ISSUE FOR BID AND PERMIT
E1.11	ENLARGED SITE DEMOLITION PLAN - FIELD HOUSE	09/16/2025	ISSUE FOR BID AND PERMIT
E1.20	SITE PLAN - ELECTRICAL	09/16/2025	ISSUE FOR BID AND PERMIT
E1.21	ENLARGED SITE PLAN - FIELD HOUSE	09/16/2025	ISSUE FOR BID AND PERMIT
E2.11	LEVEL 1 ELECTRICAL DEMOLITION PLAN OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
E2.12	LEVEL 2 ELECTRICAL DEMOLITION PLAN OVERALL	09/16/2025	ISSUE FOR BID AND PERMIT
E2.13	LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
E2.14	LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E2.15	LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA F & D	09/16/2025	ISSUE FOR BID AND PERMIT
E2.16	LEVEL 1 ELECTRICAL DEMOLITION PLAN - AUX GYM	09/16/2025	ISSUE FOR BID AND PERMIT
E2.17	LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E2.17.A	LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA B2 - ALTERNATE	09/16/2025	ISSUE FOR BID AND PERMIT
E2.18	LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
E2.19	LEVEL 2 ELECTRICAL DEMOLITION PLAN - ART ROOMS & MECH SPACES	09/16/2025	ISSUE FOR BID AND PERMIT
E2.21	LEVEL 1 OVERALL PLAN - ELECTRICAL	09/16/2025	ISSUE FOR BID AND PERMIT
E2.22	LEVEL 2 OVERALL PLAN - ELECTRICAL	09/16/2025	ISSUE FOR BID AND PERMIT
E2.31	LEVEL 1 POWER FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
E2.32	LEVEL 1 POWER FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E2.33	LEVEL 1 POWER FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
E2.34	LEVEL 1 POWER FLOOR PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
E2.35	LEVEL 1 POWER FLOOR PLAN - AUX GYM	09/16/2025	ISSUE FOR BID AND PERMIT
E2.36	LEVEL 2 POWER FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E2.36.A	LEVEL 2 POWER FLOOR PLAN - AREA B2 - ALTERNATE	09/16/2025	ISSUE FOR BID AND PERMIT
E2.37	LEVEL 2 POWER FLOOR PLAN - AREA F	09/16/2025	ISSUE FOR BID AND PERMIT
E2.38	LEVEL 2 POWER FLOOR PLAN - ART ROOMS & MECH SPACES	09/16/2025	ISSUE FOR BID AND PERMIT
E3.31	LEVEL 1 LIGHTING FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
E3.32	LEVEL 1 LIGHTING FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E3.33	LEVEL 1 LIGHTING FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
E3.34	LEVEL 2 LIGHTING FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
E3.34.A	LEVEL 2 LIGHTING FLOOR PLAN - AREA B2 - ALTERNATE	09/16/2025	ISSUE FOR BID AND PERMIT
E3.35	LEVEL 2 LIGHTING FLOOR PLAN - ART ROOM	09/16/2025	ISSUE FOR BID AND PERMIT
E5.01	PARTIAL ELECTRICAL ONE-LINE - FIELD HOUSE - DEMO AND NEW	09/16/2025	ISSUE FOR BID AND PERMIT
E5.02	PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - DEMO	09/16/2025	ISSUE FOR BID AND PERMIT
E5.03	PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBB - DEMO	09/16/2025	ISSUE FOR BID AND PERMIT
E5.04	PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - NEW	09/16/2025	ISSUE FOR BID AND PERMIT
E5.05	PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBB - NEW	09/16/2025	ISSUE FOR BID AND PERMIT
E5.06	PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - NEW ALT	09/16/2025	ISSUE FOR BID AND PERMIT
E6.01	ELECTRICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
E6.02	ELECTRICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
E7.01	LIGHTING SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
E7.02	PANEL SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
E7.03	PANEL SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
E7.04	PANEL SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
PLUMBING			
P0.00	PLUMBING LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
P1.10	DEMOLITION PLUMBING PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
P1.11	LEVEL 1 DEMOLITION PLUMBING PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
P1.12	LEVEL 1 DEMOLITION PLUMBING PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
P1.13	LEVEL 1 & 2 DEMOLITION PLUMBING PLAN - ART ROOMS	09/16/2025	ISSUE FOR BID AND PERMIT
P2.10	PLUMBING PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
P2.21	LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
P2.22	LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
P2.23	LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
P2.24	LEVEL 1 & 2 PLUMBING PLAN - ART ROOMS	09/16/2025	ISSUE FOR BID AND PERMIT
P2.31	LEVEL 1 PLUMBING PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
P2.32	LEVEL 1 PLUMBING PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
P2.33	LEVEL 1 PLUMBING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
P2.43	ROOF PLAN - PLUMBING	09/16/2025	ISSUE FOR BID AND PERMIT
P5.00	PLUMBING SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
P6.00	PLUMBING DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
FIRE PROTECTION			
FP1.0	FIRE PROTECTION PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
AUDIO VISUAL			
AV0.00	GENERAL NOTES AND LEGENDS	09/16/2025	ISSUE FOR BID AND PERMIT
AV0.01	GENERAL NOTES AND LEGENDS	09/16/2025	ISSUE FOR BID AND PERMIT
AV0.90	AUDIO-VIDEO EQUIPMENT DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.31	LEVEL 1 FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.32	LEVEL 1 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.33	LEVEL 1 FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.35	LEVEL 1 FLOOR PLAN - AREA B5	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.36	LEVEL 2 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.41	LEVEL 1 REFLECTED CEILING PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.43	LEVEL 1 REFLECTED CEILING PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
AV2.48	LEVEL 2 REFLECTED CEILING PLAN - AREA B5	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.10	ELEVATIONS AND SECTIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.11	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.12	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.13	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.14	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV3.15	ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
AV11.00	AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
AV11.10	BLACK-BOX CLASSROOM AUDIO FUNCTIONAL DIAGRAMS	09/16/2025	ISSUE FOR BID AND PERMIT
AV11.11	AUDITORIUM REPLACEMENT DIAGRAMS	09/16/2025	ISSUE FOR BID AND PERMIT
AV11.21	MUSIC ROOMS FUNCTIONAL DIAGRAMS	09/16/2025	ISSUE FOR BID AND PERMIT
AV11.31	AUX GYM AUDIO FUNCTIONAL DIAGRAMS	09/16/2025	ISSUE FOR BID AND PERMIT
AV91.11	BLACK-BOX THEATER CLASSROOM DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
AV91.21	MUSIC ROOM DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
AV91.31	AUX GYM DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
DATA NETWORKS			
T0.00	TECHNOLOGY SYMBOLS & LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
T1.20	TECHNOLOGY SITE PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
T2.21	TECHNOLOGY LEVEL 1 - COMPOSITE FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
T2.31	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
T2.32	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
T2.33	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
T3.01	TECHNOLOGY ENLARGED VIEWS AND ELEVATIONS	09/16/2025	ISSUE FOR BID AND PERMIT
T4.00	TECHNOLOGY TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
T4.01	TECHNOLOGY TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
T4.02	TECHNOLOGY TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
T5.00	TECHNOLOGY TYPICAL LABELING SCHEME	09/16/2025	ISSUE FOR BID AND PERMIT
TPA0.00	PUBLIC ADDRESS SYMBOLS & LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
TPA2.21	PUBLIC ADDRESS LEVEL 1 - COMPOSITE FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
TPA2.31	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
TPA2.32	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TPA2.33	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TPA4.00	PUBLIC ADDRESS TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
TS0.00	SECURITY SYMBOLS & LEGEND	09/16/2025	ISSUE FOR BID AND PERMIT
TS1.20	SECURITY SITE PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
TS2.21	SECURITY LEVEL 1 - COMPOSITE FLOOR PLAN	09/16/2025	ISSUE FOR BID AND PERMIT
TS2.31	SECURITY LEVEL 1 - FLOOR PLAN - AREA B1	09/16/2025	ISSUE FOR BID AND PERMIT
TS2.32	SECURITY LEVEL 1 - FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TS2.33	SECURITY LEVEL 1 - FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TS4.00	SECURITY TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
TS4.01	SECURITY TYPICAL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
TS5.00	SECURITY SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
THEATRE LIGHTING			
TL0.00	GENERAL NOTES AND LEGENDS	09/16/2025	ISSUE FOR BID AND PERMIT
TL2.32	LEVEL 1 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TL2.33	LEVEL 1 FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TL2.36	LEVEL 2 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TL2.37	LEVEL 2 FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TL16.00	SCHEDULES	09/16/2025	ISSUE FOR BID AND PERMIT
TL16.01	THEATRICAL LIGHTING CONTROL RISER	09/16/2025	ISSUE FOR BID AND PERMIT
TL16.10	CONTROL DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
TL16.20	DISTRIBUTION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
TL16.21	DISTRIBUTION DETAILS	09/16/2025	ISSUE FOR BID AND PERMIT
THEATRE RIGGING			
TR0.00	GENERAL NOTES AND LEGENDS	09/16/2025	ISSUE FOR BID AND PERMIT
TR2.32	LEVEL 1 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TR2.33	LEVEL 1 FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TR2.36	LEVEL 2 FLOOR PLAN - AREA B2	09/16/2025	ISSUE FOR BID AND PERMIT
TR2.37	LEVEL 2 FLOOR PLAN - AREA B3	09/16/2025	ISSUE FOR BID AND PERMIT
TR4.10	SECTIONS	09/16/2025	ISSUE FOR BID AND PERMIT
TR17.01	THEATRICAL RIGGING RISER DIAGRAM	09/16/2025	ISSUE FOR BID AND PERMIT

Kirksey
ARCHITECTURE

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REGISTERED ARCHITECT
JODY L. SERGI
24625
STATE OF TEXAS

16 SEPTEMBER 2025

△	DATE	ISSUE
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ABBREVIATIONS AND SHEET INDEX

SHEET NUMBER

A0.11

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ENERGY CODE INFORMATION

ENERGY CODE:
IECC 2021 : TABLE C402.1

BUILDING ENVELOPE REQUIREMENTS
CLIMATE ZONE: 2
BA ZONE: Hot-Humid
BUILDING TYPE: NONRESIDENTIAL

OPAQUE ELEMENTS	ASSEMBLY MAXIMUM	INSULATION MINIMUM R-VALUE
ROOFS:		
INSULATION ENTIRELY ABOVE ROOF DECKU-0.039		R-25ci
WALLS ABOVE GRADE:		
MASS:	U-0.151	R-5.7cic
FLOORS:		
JOIST/FRAMING:	U-0.033	R-30
SLAB-ON-GRADE FLOORS:		
UNHEATED SLABS:	F-0.73e	NR
OPAQUE DOORS:		
SWINGING:	U-0.37	
NONSWINGING:	U-0.31	

VERTICAL FENESTRATION	U-FACTOR
FIXED FENESTRATION	0.45
OPERABLE FENESTRATION	0.6
ENTRANCE DOORS	0.77

	ORIENTATION (SHGC) Fixed	operable
PF<0.2	0.25	0.23
0.2<=PF<0.5	0.3	0.28
PF>0.5	0.4	0.37

SKYLIGHTS	
U-FACTOR	0.65
SHGC	0.3

* Exception to Section 5.5.3.2 applies for mass walls above grade.

ROOF SOLAR REFLECTANCE AND THERMAL EMITTANCE.

a. A minimum three-year-aged solar reflectance of 0.55 and a minimum three-year-aged thermal emittance of 0.75 when tested in accordance with CRRC-1 Standard

b. Aminimum Solar reflectance Index of 64 when determined in accordance with the Solar Reflectance Index method in ASTM E1980 using a convection coefficient of 2.1 Btu/h*ft^2*F, based on three-year-aged solar reflectance and three-year-aged thermal emittance tested in accordance with CRRC-1 Standard

THIS PROJECT IS DESIGNED TO MEET OR EXCEED THESE STATED MINIMUM ENERGY CODE VALUES. REFER TO DRAWINGS AND SPECIFICATIONS FOR PROJECT SPECIFIC REQUIREMENTS WHICH MAY SPECIFY MORE STRINGENT THERMAL VALUES BE ACHIEVED FOR THIS PROJECT.

PROJECT INFORMATION

BUILDING PERMIT NO: PERMIT #
TDLR PROJECT #: TABS2026001172
PROJECT ADDRESS: 16301 CHIMNEY ROCK RD
HOUSTON, TX 77053

PROJECT DESCRIPTION:

THE SCOPE OF WORK INCLUDES THE INTERIOR RENOVATIONS TO THE EXISTING TWO-STORY SCHOOL AND A NEW ADDITION OF A 10,355 SF SINGLE-STORY STRUCTURE. THE SCHOOL IS DESIGNED FOR A MAXIMUM STUDENT POPULATION OF 2,500.

NOTE: OCCUPANCY CLASSIFICATION AND BUILDING CONSTRUCTION WILL NOT CHANGE WITH SCOPE OF WORK.

APPLICABLE CODES INCLUDE:

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 UNIFORM MECHANICAL CODE
2021 UNIFORM PLUMBING CODE
2023 NATIONAL ELECTRICAL CODE
TEXAS ACCESSIBILITY STANDARDS (TAS) 2012
ENERGY CODE:
2021 INTERNATIONAL ENERGY CONSERVATION CODE OR ASHRAE 90.1-2019

ITEMS PERMITTED SEPARATELY:

SECURITY SYSTEMS – TO BE PERMITTED SEPARATELY
SPRINKLER SYSTEM – TO BE PERMITTED SEPARATELY
FIRE ALARM SYSTEM – TO BE PERMITTED SEPARATELY

USE AND OCCUPANCY CLASSIFICATION: CHAPTER 3

CLASSIFICATION: SECTION 302

OCCUPANCY TYPE(S):
MAJOR USE OF BUILDING — EDUCATIONAL GROUP E
OTHER LARGE AREAS — ASSEMBLY GROUP A-2

SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY: CHAPTER 4

HIGH-RISE BUILDINGS: SECTION 403
THIS PROJECT **IS NOT** A HIGH RISE

GENERAL BUILDING HEIGHTS AND AREAS: CHAPTER 5

GENERAL BUILDING HEIGHT AND AREA LIMITATION: SECTION 504 (TABLE 504.3 & 504.4)

	ALLOWABLE	MODIFICATION
BUILDING HEIGHT	65	
NO. OF STORIES	4 STORY	
AREA PER STORY	79,500 S.F.	99,375 S.F.
AREA TOTAL	318,000 S.F.	397,500 S.F.

ACTUAL
BUILDING HEIGHT — 75
NO. OF STORIES — 2 STORY

EXISTING AREA- AUDITORIUM BUILDING
1ST. FLOOR — 21,174 S.F.
2ND. FLOOR — 21,174 S.F.
EXISTING TOTAL — 42,348 S.F.

NEW ADDITION
1ST. FLOOR — 10,878 S.F.
MECHANICAL PLATFORM — 360 S.F.
ADDITION TOTAL — 11,238 S.F.

EXISTING AND NEW AREA TOTAL — 53,586 S.F.

BUILDING AREA MODIFICATIONS: SECTION 506

Area Modifications: Section 506.1
$A_a = [A_t + [NS \times I_f]]$
$A_a = [79,500 + [26,500 \times 0.75]]$
$A_a = 79,500 + 19,875$
$A_a = 99,375$ S.F. / story

MIXED USE AND OCCUPANCY: SECTION 508
REQUIRED SEPARATION OF OCCUPANCIES (HOURS): TABLE 508.4 — N = NO SEPARATION REQUIRED

TYPES OF CONSTRUCTION: CHAPTER 6

CONSTRUCTION CLASSIFICATION: 602

BUILDING TYPE (ADDITION) — TYPE IIB

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: TABLE 601

PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS	
EXTERIOR	0 HOUR
INTERIOR	0 HOUR
NONBEARING WALLS & PARTITIONS	
EXTERIOR (T 602)	0 HOUR
INTERIOR	0 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR

FIRE AND SMOKE PROTECTION FEATURES: CHAPTER 7

EXTERIOR WALLS: SECTION 705

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: TABLE 705.5

EXTERIOR WALL RATING: — 0 HOUR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS: TABLE 705.8
DISTANCE OF BUILDING FROM (1) LOT LINE (2) CENTERLINE OF A STREET OR (3) ASSUMED PROPERTY LINE BETWEEN BUILDINGS: 262'

AREA OF EXTERIOR WALL: — 1,705 SF
ALLOWABLE OPENING %: — NO LIMIT
CLASSIFICATION OF OPENING: — UNPROTECTED
ACTUAL OPENING PROVIDED: — 471SF, 28%

FIRE WALLS: SECTION 706

FIRE WALL FIRE-RESISTANCE RATING: TABLE 706.4

A,B,E,H-4,I,R-1,R-2,U	3 HOURS
F-1, H-3, H-5, M,S-1	3 HOURS
H-1, H-2	4 HOURS
F-2, S-2, R-3, R-4	2 HOURS

INTERIOR FINISHES: CHAPTER 8

WALL AND CEILING FINISHES: SECTION 803

WALL AND CEILING FINISHES (803.1.2):
INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450

CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450

CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

INTERIOR WALL AND CEILING FINISH REQ'S BY OCCUPANCY (TABLE 803.13)
INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS: CLASS B

COORIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS: CLASS C

ROOMS AND ENCLOSED SPACES: CLASS C

INTERIOR FLOOR FINISHES: SECTION 804

CLASSIFICATION: INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS TO BE CLASS I OR II MATERIALS PER ASTM E648 OR NFPA 253.

FIRE PROTECTION SYSTEMS: CHAPTER 9

AUTOMATIC SPRINKLER SYSTEMS: SECTION 903

THIS BUILDING **IS** EQUIPPED WITH AN AUTOMATIC SPRINKLER STSTEM.

STANDPIPE SYSTEMS: SECTION 905

THIS BUILDING **IS NOT** EQUIPPED WITH A STANDPIPE SYSTEM.

REFER TO MECHANICAL DRAWINGS FOR LOCATION AND CLASSIFICATION INFORMATION OF STANDPIPES IN THE BUILDING.

PORTABLE FIRE EXTINGUISHERS: SECTION 906

FIRE EXTINGUISHERS LOCATED IN ACCORDANCE WITH IBC 906 AND NFPA 10, 2010.

SEE LIFE SAFETY PLANS FOR EXTINGUISHER LOCATIONS.

FIRE COMMAND CENTER: SECTION 911

911.1 GENERAL. FIRE COMMAND CENTER IS REQUIRED IN HIGH-RISE (>75 FEET) BUILDINGS.

THIS BUILDING IS UNDER 75' AND NOT CONSIDERED A HIGH RISE.

MEANS OF EGRESS: CHAPTER 10

OCCUPANCY LOAD (1004):

TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT,
REFER TO LIFE-SAFETY PLANS FOR OCCUPANCY LOAD CALCULATIONS.

ASSEMBLY CONCENTRATED (CHAIRS ONLY-NON FIXED)	7 NET
ASSEMBLY STANDING	5 NET
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS	15 NET
BUSINESS	150 GROSS
DAY CARE	35 NET
EDUCATIONAL - CLASSROOM	20 NET
EDUCATIONAL - SHOPS / VOCATIONAL ROOM	50 NET
EXERCISE ROOM	50 GROSS
KITCHEN, COMMERCIAL	200 GROSS
LIBRARY - READING ROOM	50 NET
LIBRARY - STACK AREA	100 GROSS
PARKING GARAGE	200 GROSS
RESIDENTIAL	200 GROSS
STAGES AND PLATFORMS	15 NET
WAREHOUSES	500 NET

MEANS OF EGRESS SIZING (1005):

1005.3.1 STAIRWAYS. EGRESS CAPACITY FACTOR:

0.3 INCH / OCCUPANT (NON-SPRINKLERED BUILDING)

0.2 INCH / OCCUPANT (SPRINKLERED BUILDING, EXCLUDING GROUP H AND I-2) EXCEPTIONS 1

1005.3.2 OTHER EGRESS COMPONENTS. EGRESS CAPACITY FACTOR:

0.2 INCH / OCCUPANT (NON-SPRINKLERED BUILDING)

0.15 INCH / OCCUPANT (SPRINKLERED BUILDING, EXCLUDING GROUP H AND I-2) EXCEPTIONS 1

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS (1006):

MINIMUM NUMBER OF EXITS / STORY: (TABLE 1006.3.3)

OCCUPANT LOAD / STORY	MINIMUM NUMBER OF EXITS FROM STORY
1-500 OCCUPANTS	2 EXITS
500-1000 OCCUPANTS	3 EXITS
>1000	4 EXITS

REFER TO LIFE SAFETY PLANS

COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)
MAXIMUM COMMON PATH OF EGRESS TRAVEL: **75 FEET**

DOORS, GATES AND TURNSTILES (1010):

1010.2.9 PANIC AND FIRE EXIT HARDWARE. THE FOLLOWING AREAS ARE REQUIRED TO HAVE PANIC AND FIRE HARDWARE:

GROUP H

GROUP A OR E WITH OCCUPANT LOAD OF 50 OR MORE

ELECTRICAL ROOMS WITH ≥1,200 AMPERES AND OVER 6 FEET WIDE THAT CONTAIN OVERCURRENT DEVICES.

*DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.

EXIT ACCESS TRAVEL DISTANCE (1017):

1017.2 LIMITATIONS. MAXIMUM EXIT ACCESS TRAVEL DISTANCE: **250 FEET**

CORRIDOR (1020):

1020.2 CONSTRUCTION. IF REQUIRED, SHALL BE FIRE PARTITIONS:
FIRE-RESISTANCE RATING — **0 HOURS**

1020.3 WIDTH AND CAPACITY. MINIMUM CORRIDOR WIDTH (TABLE 1020.3):

OTHER	**44 INCHES**
ACCESS TO MEP EQUIPMENT	**24 INCHES**
OCCUPANT LOAD <50	**36 INCHES**
DWELLING	**36 INCHES**
GROUP E >100 OCCUPANT	**72 INCHES**
STRETCHER (AMBULATORY CARE)	**72 INCHES**
GROUP I-2 (BED MOVEMENT)	**96 INCHES**

1020.5 DEAD ENDS. MAXIMUM DEAD END CORRIDOR DISTANCE:

STANDARD	**20 FEET**
GROUP I-3	**50 FEET**
GROUP B,E,F,I-1,M,R-1,R-2,R-4,S,U WITH AUTOMATIC SPRINKLER	**50 FEET**

EXIT PASSAGEWAYS (1024):

1024.2 WIDTH AND CAPACITY — **44 INCHES** MINIMUM
36 INCHES MINIMUM IF OCCUPANT LOAD IS LESS THAN 50

1024.3 CONSTRUCTION. EXIT PASSAGEWAYS SHALL BE CONSTRUCTED AS FIRE BARRIERS.
FIRE RESISTANCE RATING: **1-HOUR** FIRE-RESISTANCE RATING, BUT NOT LESS THAN REQUIRED RATING FOR CONNECTING INTERIOR EXIT STAIRWAY OR RAMP.

1024.4 TERMINATION. EXIT PASSAGEWAYS ON THE LEVEL OF EXIT DISCHARGE SHALL TERMINATE AT AN EXIT DISCHARGE. EXIT PASSAGEWAYS ON OTHER LEVELS SHALL TERMINATE AT AN EXIT.

REFER TO LIFE-SAFETY PLAN(S) FOR EXIT PASSAGEWAY WIDTH, PARTITION RATINGS AND TERMINATION.

PLUMBING SYSTEMS: CHAPTER 29

MINIMUM NUMBER OF PLUMBING FACILITIES: (IBC-TABLE 2902.1)

OCC. TYPE	OCCUPANT LOAD		WATER CLOSET MEN		WATER CLOSET WOMEN		LAVATORIES MEN		LAVATORIES WOMEN		DRINKING FOUNTAINS		SERVICE SINK	
	MEN	WOMN	REQ'D	PRVD	REQ'D	PRVD	REQ'D	PRVD	REQ'D	PRVD	REQ'D	PRVD	REQ'D	PRV'D
E	693	693	14	37	14	58	14	42	14	43	14	26	1	6

WATER CLOSETS AND LAV LOCATED IN UNISEX RESTROOMS ARE DIVIDED EQUALLY TO EACH SEX.

AREAS LABELED NSU ON THE LIFE SAFETY PLANS ARE NON-SIMULTANEOUS USE AREAS. THESE SPACES HAVE BEEN ACCOUNTED FOR UN THE LIFE SAFETY REQUIREMENTS BUT REMOVED PER COH DESIGN OCCUPANT LOAD DEFINITION ON FORM CE-1131.

ELEVATORS AND CONVEYING SYSTEMS: CHAPTER 30

ELEVATOR LOBBIES AND HOISTWAY OPENING PROTECTION: SECTION 3006 **N/A**

ELEVATOR LOBBIES AND HOISTWAY OPENING PROTECTION (3006) **N/A**
AN ENCLOSED ELEVATOR LOBBY SHALL BE PROVIDED AT EACH FLOOR WHERE AN ELEVATOR SHAFT ENCLOSURE CONNECTS MORE THAN THREE STORIES.

HAZARDOUS AND HIGH PILE

HAZARDOUS MATERIALS

THIS BUILDING IS DESIGNED FOR THE INTENT OF HAZARDOUS MATERIAL STORAGE: **NO**

HIGH PILED STORAGE

THIS BUILDING IS DESIGNED FOR THE INTENT OF HIGH PILE STORAGE: **NO**

PARKING SPACES PROVIDED:

CITY OF HOUSTON PARKING ORDINANCE AND PLANNING
TEXAS ACCESSIBILITY STANDARDS (TAS)

TYPE OF OCCUPANCY (COH SEC. 26-492)	RATIO (COH SEC. 26-492)	OCC.	PARKING (COH SEC. 26-492)	ACCESSIBLE (STANDARD) TAS (4.1.2, TABLE 2)	ACCESSIBLE (VAN) TAS (4.1.2, TABLE 2)
REQ'D	1 PER 3 OCCUPANTS	1,386	462	9	2
PROV'D			493	21	14

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FORT BEND 2023 BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
BUILDING AND ENERGY CODE

SHEET NUMBER
A0.20

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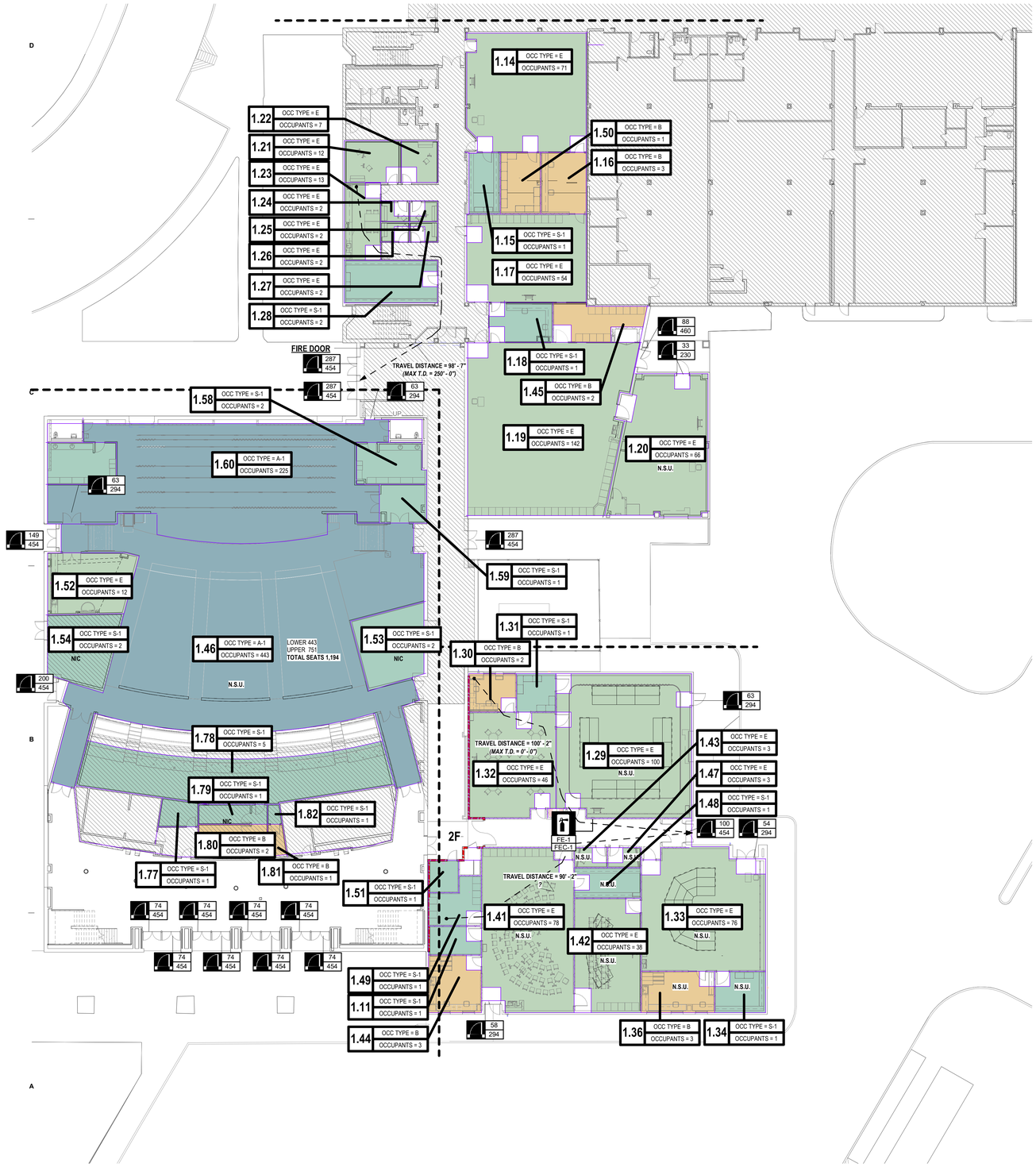

OCCUPANCY CALCULATIONS

AREA NUMBER	OCCUPANCY USE	AREA	OCCUPANCY CLASSIFICATION	OCCUPANT LOAD FACTOR	OCCUPANCY LOAD	DESIGN OCCUPANCY LOAD	NSU	REQUIRED EXITS	OCCUPANCY GROSS OR NET	OCCUPANCY POSTED SIGN REQUIRED
1.11	S-1	141 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.14	E	1419 SF	EDUCATIONAL: CLASSROOM AREA	20	71	71		2	NET	NO
1.15	S-1	208 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.16	B	302 SF	BUSINESS AREAS	150	3	3		1	GROSS	NO
1.17	E	1074 SF	EDUCATIONAL: CLASSROOM AREA	20	54	54		2	NET	NO
1.18	S-1	226 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.19	E	2834 SF	EDUCATIONAL: CLASSROOM AREA	20	142	142		2	NET	NO
1.20	E	1311 SF	EDUCATIONAL: CLASSROOM AREA	20	66	0	YES	2	NET	NO
1.21	E	232 SF	EDUCATIONAL: CLASSROOM AREA	20	12	12		1	NET	NO
1.22	E	139 SF	EDUCATIONAL: CLASSROOM AREA	20	7	7		1	NET	NO
1.23	E	258 SF	EDUCATIONAL: CLASSROOM AREA	20	13	13		1	NET	NO
1.24	E	39 SF	EDUCATIONAL: CLASSROOM AREA	20	2	2		1	NET	NO
1.25	E	38 SF	EDUCATIONAL: CLASSROOM AREA	20	2	2		1	NET	NO
1.26	E	39 SF	EDUCATIONAL: CLASSROOM AREA	20	2	2		1	NET	NO
1.27	E	38 SF	EDUCATIONAL: CLASSROOM AREA	20	2	2		1	NET	NO
1.28	S-1	405 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	2		1	GROSS	NO
1.29	E	1980 SF	EDUCATIONAL: CLASSROOM AREA	20	100	0	YES	2	NET	NO
1.30	B	174 SF	BUSINESS AREAS	150	2	2		1	GROSS	NO
1.31	S-1	164 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.32	E	920 SF	EDUCATIONAL: CLASSROOM AREA	20	46	46		1	NET	NO
1.33	E	1518 SF	EDUCATIONAL: CLASSROOM AREA	20	76	0	YES	2	NET	NO
1.34	S-1	203 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	0	YES	1	GROSS	NO
1.36	B	304 SF	BUSINESS AREAS	150	3	0	YES	1	GROSS	NO
1.41	E	1542 SF	EDUCATIONAL: CLASSROOM AREA	20	78	0	YES	2	NET	NO
1.42	E	757 SF	EDUCATIONAL: CLASSROOM AREA	20	38	0	YES	1	NET	NO
1.43	E	48 SF	EDUCATIONAL: CLASSROOM AREA	20	3	0	YES	1	NET	NO
1.44	B	306 SF	BUSINESS AREAS	150	3	3		1	GROSS	NO
1.45	B	281 SF	BUSINESS AREAS	150	2	2		1	GROSS	NO
1.46	A-1	6520 SF	ASSEMBLY WITH FIXED SEATS			0	YES			YES
1.47	E	48 SF	EDUCATIONAL: CLASSROOM AREA	20	3	0	YES	1	NET	NO
1.48	S-1	195 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	0	YES	1	GROSS	NO
1.49	S-1	209 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.50	B	269 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.51	S-1	106 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.52	E	555 SF	EDUCATIONAL: SHOPS AND OTHER VOCATIONAL ROOM AREAS	50	12	12		1	NET	NO
1.53	S-1	512 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	2		1	GROSS	NO
1.54	S-1	506 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	2		1	GROSS	NO
1.55	S-1	312 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	2		1	GROSS	NO
1.58	S-1	303 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	2		1	GROSS	NO
1.59	S-1	197 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.60	A-1	3368 SF	STAGES AND PLATFORMS	15	225	225		2	NET	NO
1.77	S-1	111 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.78	S-1	1478 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	5	5		1	GROSS	NO
1.79	S-1	150 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.80	B	244 SF	BUSINESS AREAS	150	2	2		1	GROSS	NO
1.81	B	58 SF	BUSINESS AREAS	150	1	1		1	GROSS	NO
1.82	S-1	29 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
OCCUPANCY:					998	629				

LIFE SAFETY LEGEND

- 130 / 340 — ACTUAL OCCUPANTS / EGRESS CAPACITY
- AREA NUMBER 3.01 — OCC TYPE = A-1; OCCUPANTS = 250 — OCCUPANT TYPE; TOTAL OCCUPANTS
- TRAVEL DISTANCE = 000'-0" (MAX T.D. = 000'-0")
- NR — NON RATED PARTITION
- 0S — 0 HOUR SMOKE PARTITION
- 1F — 1 HOUR FIRE RATED PARTITION/BARRIER
- 2F — 2 HOUR FIRE RATED BARRIER
- 3F — 3 HOUR FIRE RATED BARRIER
- NSU — NON SIMULTANEOUS USE
- FE-1 / FEC-1 — FIRE EXTINGUSHER CABINET
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR (AED) CABINET
- KB — KNOX BOX

SHEET NOTES

1. ALL RATED PARTITIONS TO RECEIVE 4" HIGH SPRAY PAINTED RED LETTERS DENOTING HOUR RATING. TO BE PAINTED 2'-0" ABOVE FINISHED CEILINGS AT 15'-0" O.C. MAX. ON BOTH SIDES. EXAMPLE: "FIRE BARRIER-PROTECT ALL OPENINGS"
2. FIRE EXTINGUISHER CABINETS (FEC) AND FIRE EXTINGUISHERS (FE) ARE LOCATED IN THE PLAN. REFER TO MASTER SCHEDULE FOR BASIS OF DESIGN FOR FEC AND FE.
3. FIRE RATED PARTITIONS ARE INDICATED IN PLAN WITH HATCHED WALLS AND NOTED.

1/16" = 1'-0"

LEVEL 1 LIFE SAFETY PLAN | A3

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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REGISTERED ARCHITECT — JOHN L. SERPA — STATE OF TEXAS — 24625

16 SEPTEMBER 2025

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LIFE SAFETY PLAN

SHEET NUMBER

A0.31

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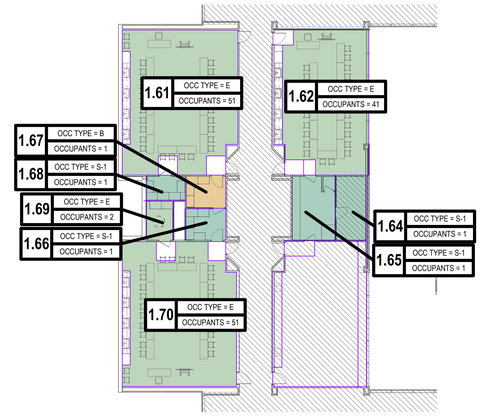
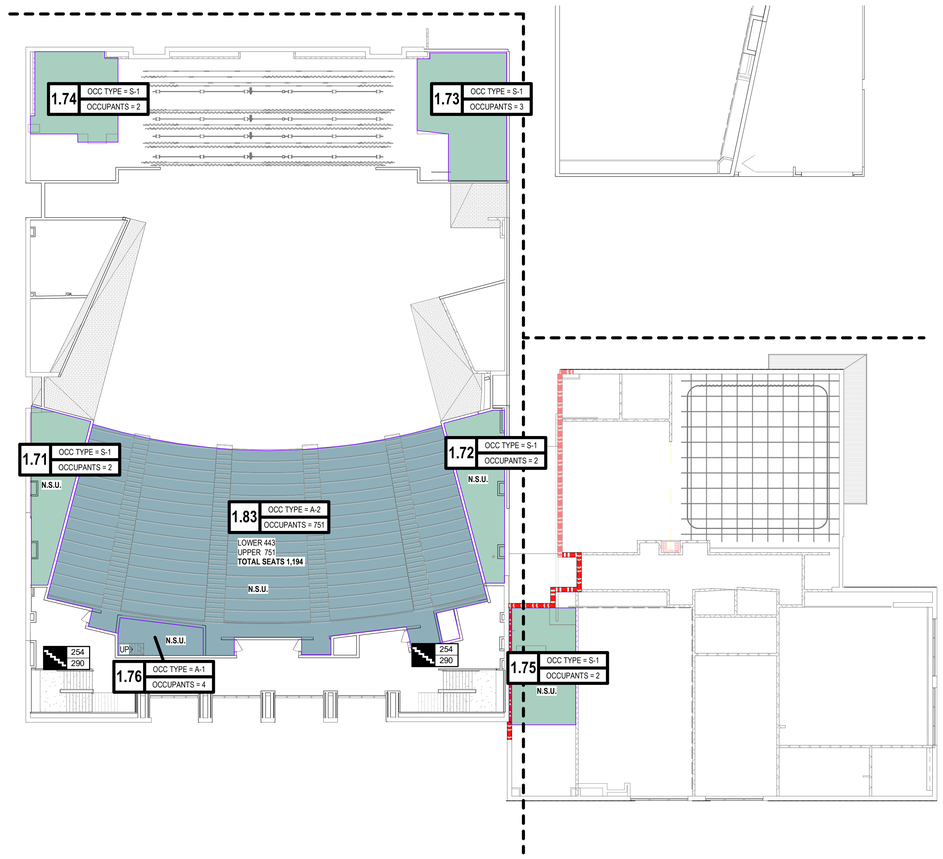


1/16" = 1'-0" LEVEL 2 LIFE SAFETY PLAN - ART CLASSROOMS | C5



1/16" = 1'-0" LEVEL 2 LIFE SAFETY PLAN - AUDITORIUM | A3

OCCUPANCY CALCULATIONS

AREA NUMBER	OCCUPANCY USE	AREA	OCCUPANCY CLASSIFICATION	OCCUPANT LOAD FACTOR	OCCUPANCY LOAD	DESIGN OCCUPANCY LOAD	NSU	REQUIRED EXITS	OCCUPANCY GROSS OR NET	OCCUPANCY POSTED SIGN REQUIRED
1.61	E	1015 SF	EDUCATIONAL: CLASSROOM AREA	20	51	51		2	NET	NO
1.62	E	807 SF	EDUCATIONAL: CLASSROOM AREA	20	41	41		1	NET	NO
1.64	S-1	138 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.65	S-1	195 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.66	S-1	91 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.67	B	91 SF	BUSINESS AREAS	150	1	1		1	GROSS	NO
1.68	S-1	68 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1	1		1	GROSS	NO
1.69	E	75 SF	EDUCATIONAL: SHOPS AND OTHER VOCATIONAL ROOM AREAS	50	2	2		1	NET	NO
1.70	E	1007 SF	EDUCATIONAL: CLASSROOM AREA	20	51	51		2	NET	NO
1.71	S-1	456 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	0	YES	1	GROSS	NO
1.72	S-1	466 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	0	YES	1	GROSS	NO
1.73	S-1	674 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	3	0	YES	1	GROSS	NO
1.74	S-1	489 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	0	YES	1	GROSS	NO
1.75	S-1	513 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	2	0	YES	1	GROSS	NO
1.76	A-1	190 SF	EDUCATIONAL: SHOPS AND OTHER VOCATIONAL ROOM AREAS	50	4	4		1	NET	NO
1.83	A-2	5180 SF	ASSEMBLY WITH FIXED SEATS			0	YES			YES
OCCUPANCY:					165	154				

LIFE SAFETY LEGEND

130 / 340 — ACTUAL OCCUPANTS / EGRESS CAPACITY

130 / 340 — ACTUAL OCCUPANTS / EGRESS CAPACITY

AREA NUMBER — 3.01 — OCC TYPE = A-1 / OCCUPANTS = 250 — OCCUPANT TYPE / TOTAL OCCUPANTS

TRAVEL DISTANCE = 000'-0" (MAX T.D. = 000'-0")

NSU — NON SIMULTANEOUS USE

NR — NON RATED PARTITION

FE-1 / FEC-1 — FIRE EXTINGUISHER CABINET

0S — 0 HOUR SMOKE PARTITION

1F — 1 HOUR FIRE RATED PARTITION/BARRIER

AED — AUTOMATED EXTERNAL DEFIBRILLATOR (AED) CABINET

2F — 2 HOUR FIRE RATED BARRIER

KB — KNOX BOX

3F — 3 HOUR FIRE RATED BARRIER

SHEET NOTES

1. ALL RATED PARTITIONS TO RECEIVE 4" HIGH SPRAY PAINTED RED LETTERS DENOTING HOUR RATING. TO BE PAINTED 2'-0" ABOVE FINISHED CEILINGS AT 15'-0" O.C. MAX. ON BOTH SIDES. EXAMPLE: "FIRE BARRIER-PROTECT ALL OPENINGS"
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3. FIRE RATED PARTITIONS ARE INDICATED IN PLAN WITH HATCHED WALLS AND NOTED.

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REGISTERED ARCHITECT — JOHN L. SERPA — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LIFE SAFETY PLAN

SHEET NUMBER

A0.32

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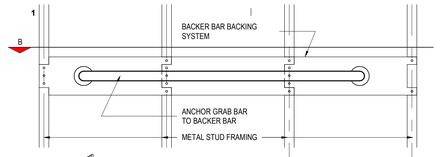
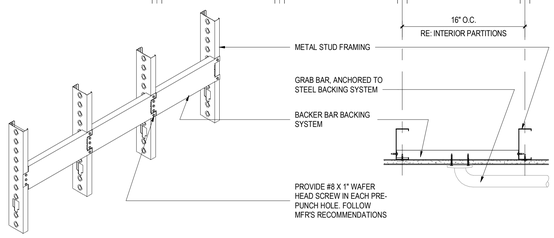
CLARK DIETRICH
BACKER BAR - 20GA (STEEL BACKING SYSTEM)

BACKER BAR SYSTEM MUST MEET 250 # PULL/POINT LOAD REQUIREMENT FOR GRAB BAR AND HANDRAILS

A ELEVATION



B AXONOMETRIC



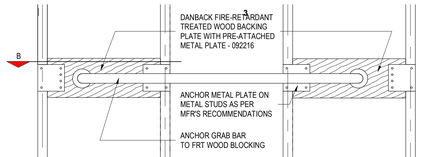
C PLAN DETAIL

1 1/2" = 1'-0" GRAB BAR BACKING SYSTEM | D2

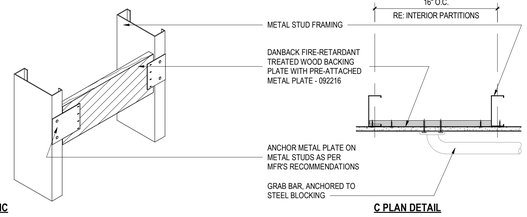
CLARK DIETRICH
DANBACK FLEXIBLE WOOD BACKING SYSTEM (FIRE RETARDANT)

BLOCKING SYSTEM MUST MEET 250 # PULL/POINT LOAD REQUIREMENT FOR GRAB BAR AND HANDRAILS

A ELEVATION

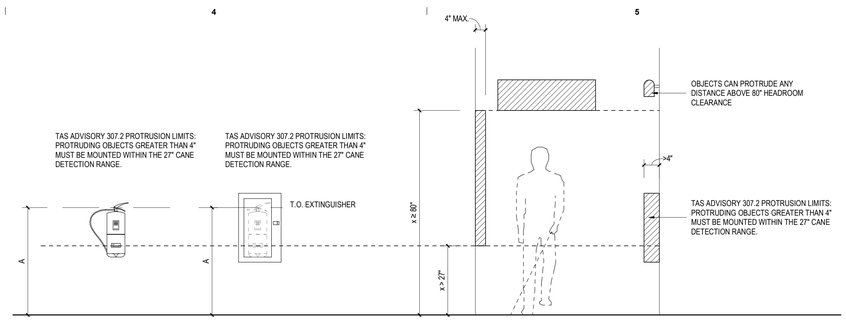


B AXONOMETRIC



C PLAN DETAIL

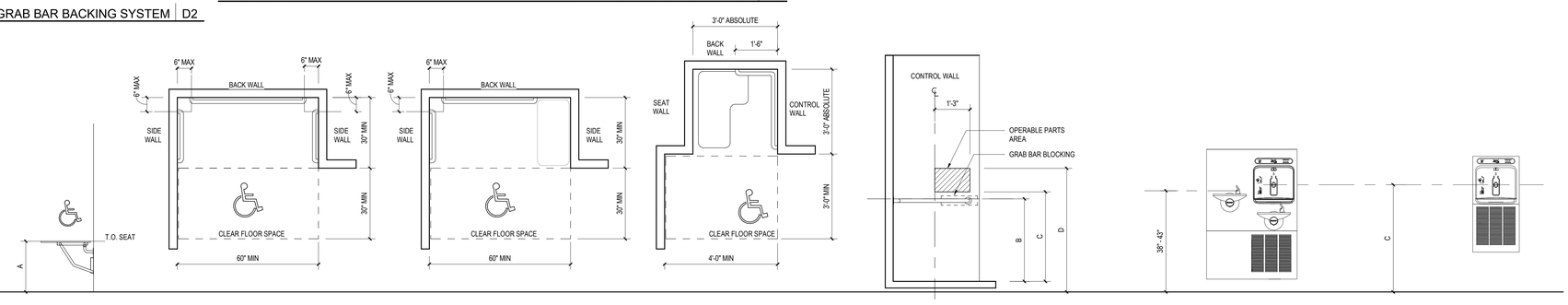
1 1/2" = 1'-0" GRAB BAR BACKING SYSTEM | D3



FIRE EXTINGUISHER (BRACKET MOUNTED)
A = 42"

EXTINGUISHER CABINET
A = 42"

LIMITS OF PROTRUDING OBJECTS
TAS 307



SHOWER SEAT
A
ADULT (TYP) = 18"

ROLL-IN SHOWER WITHOUT SEAT
COMPARTMENT SIZE AND CLEARANCE

*DIMENSIONS MEASURED TO FINISH MATERIAL

ROLL-IN SHOWER WITH SEAT
COMPARTMENT SIZE AND CLEARANCE

*DIMENSIONS MEASURED TO FINISH MATERIAL

TRANSFER SHOWER
COMPARTMENT SIZE AND CLEARANCE

*DIMENSIONS MEASURED TO FINISH MATERIAL

TRANSFER SHOWER
CONTROL LOCATION

GRAB BAR HEIGHT
B
ADULT (TYP) = 35"

OPERABLE PARTS HEIGHT
ADULT (TYP)
C= 38" MIN.
D= 48" MAX.

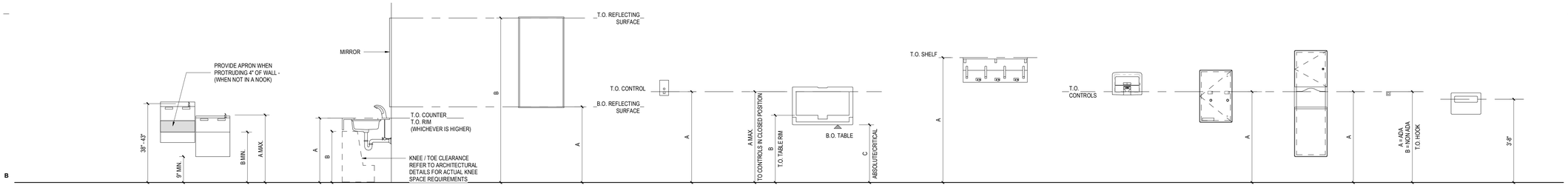
DRINKING FOUNTAIN WITH BOTTLE FILLING STATION
A
ADULT (TYP) = 36" (MAX.)

B
ADULT (TYP) = 27" (MIN.)

C
ADULT (TYP) = 44" (48" MAX.)

BOTTLE FILLING STATION

C
ADULT (TYP) = 44" (48 MAX.)



DRINKING FOUNTAIN
A
ADULT (TYP) = 36"

B
ADULT (TYP) = 27"

SINK / LAVATORY
A
ADULT (TYP) 34" MAX.

B
ADULT (TYP) 27" MIN.

MIRROR (MOUNTED ABOVE LAV OR COUNTERTOP)
A
ADULT (TYP) 40" MAX.

B
ADULT (TYP) 74" MIN.

MIRROR (NOT MOUNTED ABOVE LAV OR COUNTERTOP)
A
ADULT (TYP) = 35" MAX.

SOAP DISPENSER WALL MOUNTED
A
ADULT (TYP) 48"

BABY CHANGING STATION
A
ADULT (TYP) = 48"

B
ADULT (TYP) = 33"

C
ADULT (TYP) = 27"
(B.O. TABLE IN OPEN POSITION)

MOP SHELF
A
ADULT (TYP) = 66"

HAND DRYER (TAS 308.1)
A
AGES 3-4 = **36" MAX.**
AGES 5-8 = **40" MAX.**
AGES 9-12 = **44" MAX.**
ADULT (TYP) = **48" MAX.**

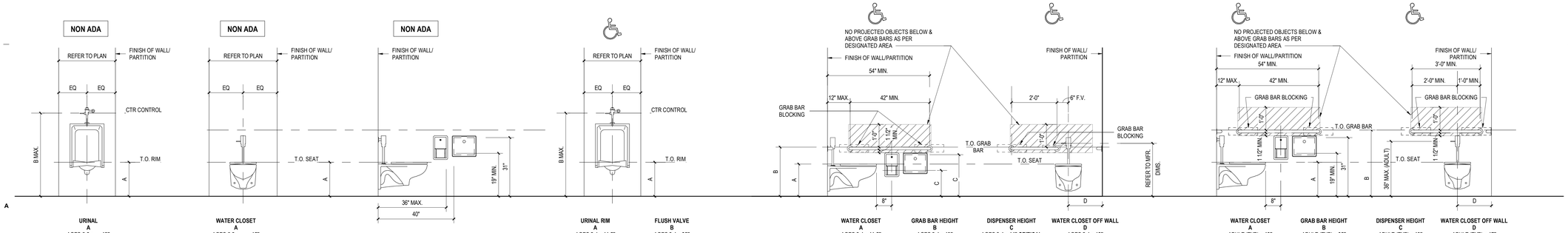
SANITARY NAPKIN VENDOR
A
ADULT (TYP) = **48"**

PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
A
ADULT (TYP) = **48"**

COAT HOOK
A
ADULT (TYP) = **48" MAX.**

B
NON-ADA = **66"**

TOILET SEAT COVER DISPENSER



URINAL
A
AGES 5-8 = **13"**
AGES 9-12 = **16"**
ADULT (TYP) = **24"**

WATER CLOSET
A
AGES 5-8 = **15"**
AGES 9-12 = **15"**
ADULT (TYP) = **15"**

URINAL RIM
A
AGES 3-4 = **11.5"**
AGES 5-8 = **13"**
AGES 9-12 = **16"**
ADULT (TYP) = **16"**

FLUSH VALVE
B
AGES 3-4 = **36"**
AGES 5-8 = **40"**
AGES 9-12 = **44"**
ADULT (TYP) = **44"**

WATER CLOSET
A
AGES 3-4 = **11.5"**
AGES 5-8 = **13"**
AGES 9-12 = **16"**

GRAB BAR HEIGHT
B
AGES 3-4 = **19"**
AGES 5-8 = **23"**
AGES 9-12 = **26"**

DISPENSER HEIGHT
C
AGES 3-4 = **14" CRITICAL**
AGES 5-8 = **16"**
AGES 9-12 = **18"**

WATER CLOSET OFF WALL
D
AGES 3-4 = **12"**
AGES 5-8 = **14"**
AGES 9-12 = **17"**

CHILDREN'S WATER CLOSET CRITERIA

WATER CLOSET
A
ADULT (TYP) = **18"**

GRAB BAR HEIGHT
B
ADULT (TYP) = **35"**

DISPENSER HEIGHT
C
ADULT (TYP) = **19"**

WATER CLOSET OFF WALL
D
ADULT (TYP) = **17"**

ADULT'S WATER CLOSET CRITERIA

URINAL GENERAL NOTE: CLEAR FLOOR SPACE (URINAL) MAINTAIN 30" X 48" CLEAR FLOOR SPACE. IF ALCOVE IS DEEPER THAN 24" PROVIDE ADDITIONAL MANEUVERING CLEAR FLOOR SPACE OF 36" X 48"

WATER CLOSET GENERAL NOTE:
FLUSH CONTROLS TO BE MOUNTED ON WIDE SIDE OF WATER CLOSET AWAY FROM CLOSEST ADJACENT WALL. REFER TO 604.5.2 REAR WALL, EXCEPTION 2. VERIFY WITH RAS.

WATER CLOSET GENERAL NOTE:
FLUSH CONTROLS TO BE MOUNTED ON WIDE SIDE OF WATER CLOSET AWAY FROM CLOSEST ADJACENT WALL.

1/2" = 1'-0" FIXTURE AND ACCESSORY MOUNTING HEIGHTS | A5

Kirksey ARCHITECTURE

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Houston Texas 77024

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REGISTERED ARCHITECT — JODY L. SIEGEL — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2022

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

REFERENCE (MOUNTING HEIGHTS)

SHEET NUMBER

A0.60

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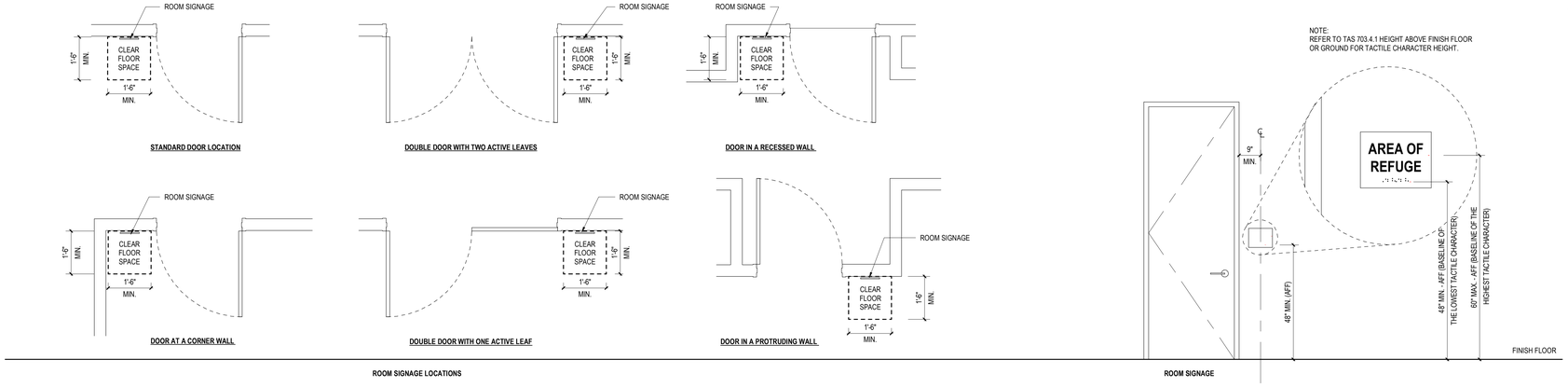

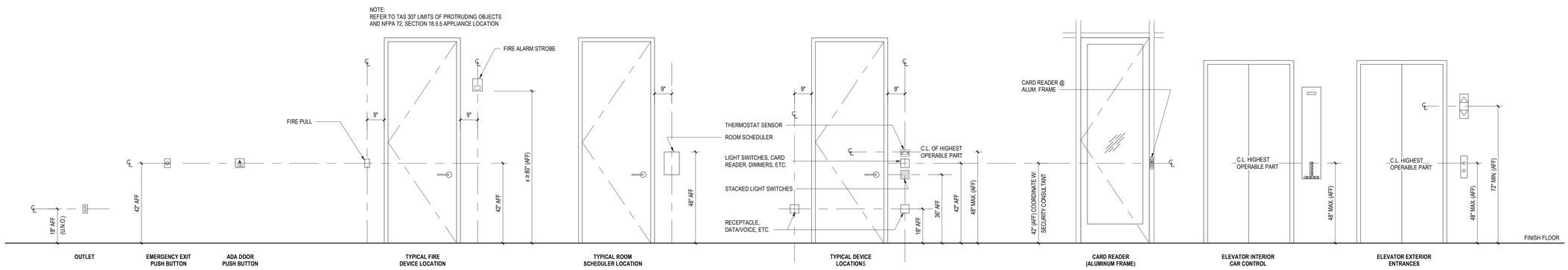

1/2" = 1'-0"

FIXTURE AND ACCESSORY MOUNTING HEIGHTS | A5

Kirksey ARCHITECTURE

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REGISTERED ARCHITECT JOHN L. SERIO 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

REFERENCE (MOUNTING HEIGHTS)

SHEET NUMBER

A0.61

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DIVISION 04 MASONRY

04 20 00 UNIT MASONRY

BRK-1	Manufacturer	Cloud Ceramics/ Kansas Brick & Tile
	Color / Texture	Coronado / Velour
	Size	King Size
	Pattern	Running Bond
	Grade	SW
	Type	FBX
BRK-1B	Manufacturer	Cloud Ceramics/ Kansas Brick & Tile
	Color / Texture	Coronado / Velour
	Size	King Size
	Pattern	Stack Bond
	Grade	SW
	Type	FBX
BRK-2	Manufacturer	Kansas Brick & Tile
	Color / Texture	Mocha / Velour
	Size	King Size
	Pattern	Running Bond
	Grade	SW
	Type	FBX
BRK-2B	Manufacturer	Kansas Brick & Tile
	Color / Texture	Mocha / Velour
	Size	King Size
	Pattern	Stack Bond
	Grade	SW
	Type	FBX

DIVISION 06 WOOD AND COMPOSITES

06 41 16 PLASTIC LAMINATE-FACED ARCHITECTURAL CABINETS

PL-1	Manufacturer	Wilsonart
	Product Name/No.	Premium Laminate
	Color	Magnolia
	Texture	Leno Weave Finish
	Comments	Millwork

DIVISION 07 THERMAL

07 21 29 SPRAY-APPLIED INSULATION

ACC-1	Manufacturer	International Cellulose Corporation
	Product	K-13
	Color	Black
	Thickness	2"

07 42 13.13 FORMED METAL WALL PANELS

MWP-1	Manufacturer	Dizal
	Product	6F Plank
	Panel Width (Inches)	6"
	Panel Depth (Inches)	.41 mm
	Panel Thickness (Guage)	1.6 mm
	Finish	Hickory Natural

074243 ALUMINUM COMPOSITE PANEL

ACM-1	Manufacturer	Alpolic
	Product	FR
	Finish	AUB Blue

07 72 00 ROOF ACCESSORIES (Roof Hatch)

HATCH-1	Description	Roof Hatch
	Manufacturer	Babcock-Davis
	Product	BRHTA36X36S1T
	Size	36"x36"
	Material	As specified

07 95 00 EXPANSION CONTROL

EJ-F1	Description	Floor-to-Floor
	Manufacturer	Construction Specialties
	Product	GFPS-200
	Finish	Gasket Color: Gray
EJ-W4	Description	Fire Rated Wall-to-Wall (Corner)
	Manufacturer	Construction Specialties
	Product	FWFC-200M w/ Fire Barrier
	Finish	Gasket Color: Gray

DIVISION 08 OPENINGS

08 31 13 ACCESS DOORS

AD-1	Description	Non-Rated: Access Door in Gypsum Board Ceiling
	Manufacturer	Acudoor
	Model / Type	(GFRG-S) Glass Fiber Reinforced Gypsum
	Size	[12x12] [24x24]
	Rating	non rated
	Finish	Match adjacent ceiling
	Remarks	
AD-2	Description	Non-Rated: Access Door in Wall (Flangeless, Flush)
	Manufacturer	Acudoor
	Model / Type	DW-5058 Drywall
	Size	varies, coordinate
	Rating	non rated
	Finish	[Painted] [Stainless Steel]
	Lock	[Standard cam lock] [cylinder lock with key]
	Remarks	

08 80 00 GLAZING

GL-1	Description	Vision Glass
	Manufacturer	Guardian Industries Corp
	Product	SNX 62/27 SuperNeutral Low-E
	outside glass	1/4" Ultra Clear
	surface #2	SuperNeutral Low-E
	insulated space	1/2" air space
	surface #3	
	inside glass	1/4" Ultra Clear
	Transmittance (VLT)	64
	U-Value (Winter)	0.29
	U-Value (Summer)	0.27
	SHGC	0.27
GL-2	Description	Vision Security Glass
	Manufacturer	Guardian Industries Corp
	Product	SNX 62/27 SuperNeutral Low-E
	outside glass	1/4" Clear
	surface #2	SuperNeutral Low-E
	insulated space	1/2" air space
	surface #3	.090" PVB
	inside glass	3/16" Clear
	Transmittance (VLT)	64
	U-Value (Winter)	0.29
	U-Value (Summer)	0.27
	SHGC	0.23
GL-3	Description	Interior Glazing Security / Safety Glass
	Outside glass	1/4" annealed
	Laminate	.090" PVB
	Inside glass	1/4" annealed
	Manufacturer	TBD
	Product	TBD
GL-4	Description	Acoustical Glazing (Tempered)
	Thickness	1/2"
	Remarks	3/8" clear sealant joints between panels

08 91 19 FIXED LOUVER

LVR-1	Manufacturer	Ruskin
	Product	EME520DD
	Louver Depth	5 inches
	Free Area	0.47
	Screen	Bird Screen
	Blank-off Panels	Not Required
	Color	

08 14 16 FLUSH WOOD DOORS

WD-1	Type	PLAM faced door
	Manufacturer	Wilsonart
	Color	
	Texture	
	Remarks	Veneer Pattern and color to match existing doors
WD-2	Type	PLAM faced door
	Manufacturer	Wilsonart
	Color	Black
	Texture	Matte
	Remarks	Black Box Theatre Doors; only on Black Box side

DIVISION 09 FINISHES

09 24 00 CEMENT PLASTERING

CP-1	Description	Exterior Portland Cement Plasterwork (Stucco)
	Texture	
	Color	TBD

09 30 00 TILING (CERAMIC, STONE, QUARRY, GLASS)

TILE-1	Type	Porcelain Tile
	Manufacturer	Dal-Tile
	Color	Electric Moss VL79
	Size	12x24
	Finish	Matte
	Thickness	5/16"
	Jointing Pattern	Vertical Running Bond
	Joint Width	
	Grout Color	TBD
	Remarks	Provide sealant joint at all inside corners on wall tile, NO EXCEPTIONS, regardless of substrate (masonry or drywall). Provide sealant between wall/floor tile and door frames, do not install grout in these locations. Allow for movement of dissimilar materials.

09 30 00 TILING ACCESSORIES

TS-1	Manufacturer	Schluter
	Product	Quadec
	Finish	

09 51 13 ACOUSTICAL PANEL CEILING

APC-1	Manufacturer	Armstrong World Industries
	Panel Name, Item No.	School Zone Fine Fissured No. 1713
	Panel Size	2x2
	Susp. Syst. Name, Size	Armstrong World Industries 15/16" exposed T, no concealed spline, always white
	Remarks	
APC-2	Manufacturer	Armstrong World Industries
	Panel Name, Item No.	Fine Fissured Humiguard with BioBlock
	Panel Size	2x2
	Susp. Syst. Name, Size	Armstrong World Industries 15/16" exposed T, no concealed spline, always white
	Remarks	Min. NRC .90

09 61 16 CONCRETE FLOOR SEALER

CFS-1	Manufacturer	Dayton Superior
	Product	Day-Chem Sure Hard (J-17)
	Strip Curing Compound	Citrus Peel (J-48)
	Color	Clear

09 64 10 WOOD STAGE FLOORING

WDF-1	Manufacturer	
	Product	Masonite
	Species and Grade	Sierra Pine Medite
	Thickness	1/4"
	Width	4'
	Lengths	8'
	Stain color	Black
	Interior Finish Classification	Class A Fire-Rated A-C plywood
	Remarks	Black Box Floor, 2" Slab Depression RE: Structure

09 65 13 RESILIENT BASE AND ACCESSORIES

RBA-1	Description	Base
	Manufacturer	Tarkett
	Product	Traditional Wall Base 167
	Color	Fudge
	Size	4"
	Style / Profile	Cove
	Material Type	TS - Rubber,thermoset
	Interior Finish Classification	Class A

09 65 19 RESILIENT TILE FLOORING

LVT-1	Description	Vinyl Tile
	Manufacturer	Tarkett
	Product	PCCA Create Emphasis
	Color	11513 Purpose
	Thickness	32 mil
	Size	18x18
	Interior Finish Classification	Class I
LVT-2	Description	Vinyl Tile
	Manufacturer	Tarkett
	Product	Contour Abstract
	Color	Color Beam Juniper C101
	Thickness	32 mil
	Size	18x18
	Interior Finish Classification	Class I
LVT-3	Description	Vinyl Tile
	Manufacturer	Mohawk Group
	Product	Chromascope C0159
	Color	910 Winter Mood
	Thickness	2.5 mm
	Size	12x24
	Interior Finish Classification	Class I
LVT-4	Description	Vinyl Tile
	Manufacturer	Mohawk Group
	Product	Chromascope C0159
	Color	940 Jack Rabbit
	Thickness	2.5 mm
	Size	12x24
	Interior Finish Classification	Class I

09 68 13 CARPET TILE

CPT-1	Manufacturer	Tarkett
	Pattern	Assertive Action
	Color	Chromium 26201
	Size	24x24
	Installation Pattern	Vertical Ashlar
	Interior Finish Classification	Class I
CPT-2	Manufacturer	Tarkett
	Pattern	Maelstrom
	Color	Blue Spirit 71602
	Size	24x24
	Installation Pattern	Vertical Ashlar
	Interior Finish Classification	Class I
	Remarks	

09 84 00 SOUND ABSORBING WALL UNITS

AWP-1	Panel Manuf.	Sound Concepts
	Type	CS 1 - Acoustical Wall Panels
	Color	Anchorage 2335 - Asteroid
	NRC	0.95
	Interior Finish Classification	Class A
AWP-2	Panel Manuf.	Sound Concepts
	Type	CS 1 - Acoustical Wall Panels
	Color	Anchorage 2335 - Midnight
	NRC	0.95
	Interior Finish Classification	Class A
AWP-3	Panel Manuf.	Sound Concepts
	Type	CS 1 - Acoustical Wall Panels
	Color	Anchorage 2335 - Cobalt
	NRC	0.95
	Interior Finish Classification	Class A

09 84 36 SOUND ABSORBING CEILING UNITS

SCU-1	Panel Manuf.	Wenger Ceiling Diffuser Panels
	Thickness	6" Thick
	Type	Lay in for standard grid ceiling
	Color	TBD
	Panel Size	4x4
	Location	Music Rooms
	Interior Finish Classification	Class A

09 91 00 PAINT

***Refer to specifications for paint type to be used for each substrate type.**

General Note: All gypsum walls to be level 4 finish unless noted otherwise in schedule below.

PT-1	Manufacture/Color No.	Sherwin Williams - SW 9541
	Color	White Snow
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	All Gypboard locations U.N.O
PT-2	Manufacture/Color No.	Sherwin Williams - SW 7004
	Color	Amazing Gray
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	Accent Color
PT-3	Manufacture/Color No.	Sherwin Williams - SW 9177
	Color	Salty Dog
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	Accent Color
PT-4	Manufacture/Color No.	Sherwin Williams - SW 6994
	Color	Greenblack
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	Black Box and Theater
PT-5	Manufacture/Color No.	Sherwin Williams - SW 7045
	Color	Intellectual Gray
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	Accent Color
PT-6	Manufacture/Color No.	Sherwin Williams - SW 7043
	Color	Worldly Gray
	Sheen	Semi-gloss
	Gypsum Level	Level 4
	Remarks	Accent Color

DIVISION 10 SPECIALTIES

10 11 00 VISUAL DISPLAY UNIT

VDU-1	Type	Porcelain-Enamel Markerboard
	Manufacturer	Claridge
	Product / Model No.	
	Fastening Method	concealed 'Z' clip mounting brackets
	Finish / Color	low gloss white
	Accessories	
	Remarks	Refer to interior elevations for size
VDU-2	Type	Tack Board
	Manufacturer	Claridge
	Product / Model No.	
	Fastening Method	concealed 'Z' clip mounting brackets
	Finish / Color	Fabric-backed vinyl surface/TBD
	Remarks	1/4-inch cork laminated over 1/4-inch hardboard in an extruded aluminum frame. Refer to interior elevations for size, magnetic

10 14 00 SIGNAGE AND GRAPHICS

*Refer to Signage and Graphics (SG) Drawings

G-WC-1	Type	Graphic Wall Covering
	Manufacturer	
	Product / Model No.	Product name
	Finish / Color	Satin white

10 22 38 OPERABLE PANEL PARTITIONS

OP-1	Manufacturer	Modernfold
	Product / Model No.	Acousti-Seal Encore Operable Partition
	Height	Refer for RCP for ceiling height
	Panels	Dual Paired Panel - 10 Panels
	STC Rating	56
	Operation	Manual
	Finish 1	Marker Board
	Finish 2	Marker Board
	Frame Finish	Clear anodized aluminum finish
	Seals	Top and Bottom Seals
	Location	Drama Classroom 419/433 Black Box
	Notes	Partition wall to extend to back of pocket when in closed position.

10 26 00 WALL AND DOOR PROTECTION

WP-1	Description	Crash Rail
	Manufacturer	Construction Specialties
	Product / Model No.	SCR-40
	Finish 1	1586 Naval Blue
	End Cap/Corners	Acrovyn End Cap 24l001xxx
	Size	4"
	Thickness	30.2 mm
	Mount	Bumper

10 28 00 TOILET, SHOWER AND CUSTODIAL ACCESSORIES

TA-1 TOILET PAPER

TA-1.2	Description	Toilet Tissue Dipenser-Surfaced Mounted
	Remarks	OFCI

TA-8 SOAP DISPENSER

TA-8.2	Description	Soap Dispenser - Wall Mounted
	Remarks	OFCI

10 44 13 FIRE PROTECTION CABINET

FEC-1	Description	Fire Extinguisher Cabinet
	Manufacturer	JL Industries
	Series	Embassy- Stainless Steel
	Model No.	5634V10
	Trim Style	Trimless Recessed
	Door Style	Solid with Handle
	Cabinet Material	Stainless Steel
	Cabinet Construction	Refer to specifications
	Fire Extinguisher	Refer to Life Safety Plans and 104416
	Fire Extinguisher Type	FE-1
	Remarks	Provide Magnetic catch

10 44 16 FIRE EXTINGUISHERS

FE-1	Description	Multi-Purpose Chemical (Class A,B,C Fires)
	Manufacturer	JL Industries
	Model No.	Cosmic 10E
	U/L Rating	4A-80BC

DIVISION 12 FURNISHINGS

12 21 13 HORIZONTAL LOUVER BLINDS

HLB-1	Description	Horizontal Louver Blinds
	Manufacturer	Levolor
	Size	1"
	Blind Color	TBD

12 24 13 ROLLER SHADES

RS-1	Description	Roller Shade
	Manufacturer	Draper, Inc.
	Shade Material	TBD
	Openness Factor	3% openness
	Rollers	One
	Operation	Motorized
	Interior Finish Classification	Class A
	Location	At clerestory windows
RS-2	Description	Roller Shade
	Manufacturer	Draper, Inc.
	Shade Material	TBD
	Openness Factor	3% openness
	Rollers	One
	Operation	Manual
	Interior Finish Classification	Class A
	Location	at exterior windows

12 36 23.13 PLASTIC LAMINATE-CLAD COUNTERTOPS

PL-2	Manufacturer	Wilsonart
	Product Name/No.	Standard Laminate
	Color	Slate Grey D91-60
	Texture	Matte Finish
	Comments	Millwork Countertop
PL-3	Manufacturer	Wilsonart
	Product Name/No.	Chemsurf
	Color	Graphite 10657
	Texture	Matte Finish
	Comments	Artroom Counter

Kirksey ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024

713 850 9600

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REGISTERED ARCHITECT — JOHN L. SERAFY — STATE OF TEXAS — 24625

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT — 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MASTER SCHEDULE

SHEET NUMBER

A0.70

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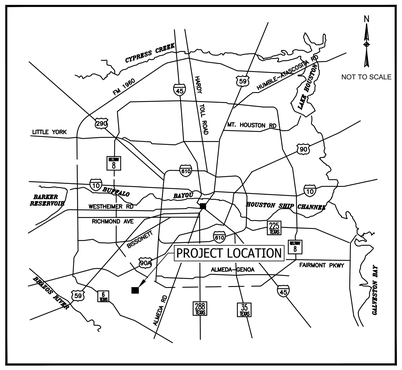
9/16/2025 6:39:23 PM
Autodesk Docs://2023306 Willowridge High School/ARCH_Willowridge High School_2024.rvt

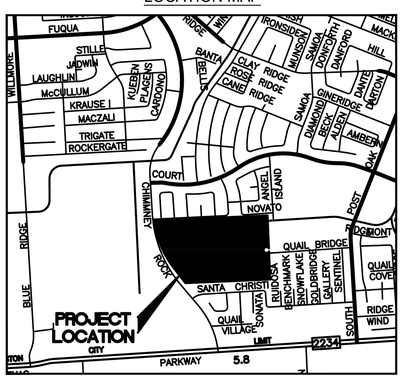
CONSTRUCTION PLANS FOR PROPOSED
FBISD WILLOWRIDGE HIGH SCHOOL RENOVATIONS

16301 CHIMNEY ROCK RD
HOUSTON, TEXAS 77053

SEPTEMBER 2025



LOCATION MAP



VICINITY MAP
KEY MAP NO: 611 B

Sheet List Table	
Sheet Number	Sheet Title
C0.00	COVER
C0.01	CIVIL GENERAL CONSTRUCTION NOTES
C1.00	PLAT
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C5.00	SITE DRAINAGE PLAN
C7.00	CIVIL DETAILS (1 OF 2)
C7.01	CIVIL DETAILS (2 OF 2)

DETENTION NOTE:
EXCESS VOLUME PROVIDED IN PREVIOUS WILLOWRIDGE HIGH SCHOOL PROJECT ILMS# 25025849.

NO ADDITIONAL DETENTION REQUIRED FOR FBISD WILLOWRIDGE HS RENOVATIONS PER CITY OF HOUSTON IDM MAY 2025.

SCALE: 1" = 20'

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M), VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
COVER

SHEET NUMBER
C0.00

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PLOTTED: 9/15/2025 3:51 PM
PLOT STYLE: AURICC2.0.STB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\2022.0106-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWINGS\03-SHEETS\C0.00 COVER.DWG

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 THIS 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 CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT 567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING EXCAVATING NEAR OUR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY 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 PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST 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) 659-3552 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 10 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 REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON/OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS, OR OCCUPY NO CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING AND RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

Sheet List Table

Sheet Number	Sheet Title
C0.01	CIVIL GENERAL CONSTRUCTION NOTES
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C7.01	CIVIL DETAILS (2 OF 2)

PAVING CONSTRUCTION NOTES

1. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8” IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY.
2. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.
3. SIDEWALKS AND WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT ADDITION TEXAS ACCESSIBILITY STANDARDS (TAS).
4. THE CONTRACTOR SHALL SUBMIT A DRAWING SHOWING THE PROPOSED POURING PLAN AND ANY MODIFICATIONS TO THE PROPOSED JOINT LAYOUT TO THE ENGINEER FOR REVIEW.
5. REFERENCE THE ARCHITECTURAL SITE PLAN FOR SIDEWALK JOINT PATTERN. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.
6. THE PAVEMENT JOINTING PLAN SHALL BE COORDINATED WITH THE LOCATION OF INLETS, MANHOLES LIGHT POLES, ETC. IN PAVED AREAS.
7. SAWED JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
8. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN BUILDING FOUNDATIONS AND PERIMETER CONCRETE PAVING. SEAL JOINT AS REQUIRED FOR PAVING JOINTS.
10. REFER TO STRUCTURAL FOR ANY DOWELS REQUIRED TYING THE BUILDING FOUNDATION AND ADJACENT CONCRETE PAVING TOGETHER.
11. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, SAW CUT AND EXPOSE 15” OF EXISTING REINFORCING STEEL. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS (#6 BARS 24” LONG) 24” C-C DRILLED AND EMBEDDED 8” INTO THE CENTER OF THE EXISTING SLAB WITH “PO ROC” OR EQUAL. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
12. CONCRETE PAVEMENT SHALL BE PLACED DIRECTLY ON COMPACTED STABILIZED SUBGRADE. STABILIZED SUBGRADE SHALL EXTEND A MINIMUM OF 2-FT BEYOND BACK OF CURB AND/OR EDGE OF PAVEMENT, WHERE SIDEWALK IS ADJACENT TO THE PAVEMENT THE SUBGRADE SHALL EXTEND TO THE EDGE OF THE WALK OR A MAXIMUM OF 10-FT. SAND LEVELING OF SIDEWALKS IS NOT ALLOWED.
13. PAVEMENT SUBGRADE SHALL BE STABILIZED BY MIXING LIME OR A LIME-FLY ASH MIXTURE INTO THE SUBGRADE AT THE RATE AND DEPTH DETERMINED BY THE GEOTECHNICAL ENGINEER.

GRADING CONSTRUCTION NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES, UTILITY LOCATIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.
3. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE SPOT ELEVATIONS, CONTOUR LINES AND SLOPE ARROWS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN SPOT ELEVATIONS SHOWN. WHEN SPOT ELEVATIONS ARE SHOWN ALONG THE EDGE OF PAVEMENT, CURB, SIDEWALK, ETC., THE GRADING SHALL VARY UNIFORMLY ALONG THAT EDGE. THE CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE WITH NO STANDING WATER.
5. DITCH AND SWALE SIDESLOPES SHALL BE 5:1 (HORZ:VERT) FROM FLOWLINE OF DITCH OR SWALE TO THE TOP OF BANK UNLESS NOTED OTHERWISE.
6. SITE TO BE CLEARED OF FENCES, POWER POLES, VEGETATION, DEBRIS, ETC. AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
7. ALL DEBRIS AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
8. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED. REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. APPLY HYDROMULCH TO ALL DISTURBED AREAS NOT NOTED TO RECEIVE SOLID SOD OR OTHER STABILIZATION.
9. GRASS ISLANDS SHALL BE BACKFILLED TO TOP OF CURB. PROVIDE MINIMUM 3% GRADE UP TO CENTER OF ISLAND TO PROVIDE ADEQUATE SHEET FLOW OVER TOP OF CURB.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING AND PROPOSED STRUCTURES TO FINISH GRADE.

WATERLINE CONSTRUCTION NOTES

1. WATER LINES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
2. WATER LINES AND FITTINGS SMALLER THAN 2" SHALL CONFORM TO ALL REQUIREMENTS OF ASTM D-1784 SCH 40.
3. 2" THROUGH 3" WATER LINES SHALL BE ASTM D-2241 SDR 21 PVC PIPE.
4. 4” THROUGH 12” WATER LINES SHALL BE AWWA C-900 PVC DR-18 BLUE PRESSURE RATED WATER MAIN.
5. 2” AND LARGER FITTINGS SHALL BE MECHANICAL JOINT FITTINGS CONFORMING WITH AWWA C-153.
6. 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.
4. ALL TRENCH BACKFILL SHALL BE PLACED IN 8 INCH LIFTS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 92% OF THE MAXIMUM DRY DENSITY FOR LANDSCAPED AREAS OR 95% OF THE MAXIMUM DRY DENSITY FOR PAVED AREAS AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
5. CONTRACTOR SHALL KEEP WATER PIPE CLEAN AND CAP (OR OTHERWISE EFFECTIVELY COVER) OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
6. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AS NECESSARY TO PREVENT PIPE MOVEMENT.
7. WHERE WATER LINES AND NEW SANITARY SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN 9' THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) OR 30 TAC §290.44(E). THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 12" VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND A MINIMUM OF 24" VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
8. ALL WATER VALVES SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C-509 AND SHALL BE OF THE RESILIENT SEAT TYPE.
9. ALL WATER LINES TO BE DISINFECTED IN CONFORMANCE WITH AWWA C-651 AND THE TEXAS STATE DEPARTMENT OF HEALTH. AT LEAST ONE BACTERIOLOGICAL SAMPLE SHALL BE COLLECTED FOR EVERY 1,000 LINEAR FEET OF WATER LINE AND SHALL BE REPEATED IF CONTAMINATION PERSISTS.
10. ALL WATER PIPE SHALL BE TESTED FOR LEAKAGE AT 125 PSI FOR A PERIOD OF 8 HOURS. TESTS ARE TO BE PERFORMED ON THE ENTIRE FOOTAGE OF WATER LINE INCLUDED IN THE PROJECT.

SANITARY SEWER CONSTRUCTION NOTES

1. NORMAL BEDDING AND BACKFILL FOR SANITARY SEWER LINES AND STRUCTURES SHALL BE 1.5 SACK PER CUBIC YARD CEMENT STABILIZED SAND TO 12" ABOVE THE PIPE. FOR SANITARY SEWER LINES OR STRUCTURES UNDER OR WITHIN 3' 0F PAVEMENT THE CEMENT STABILIZED SAND SHALL BE EXTENDED TO THE BOTTOM OF THE PAVEMENT.
2. ALL MANHOLES ARE TO BE CONSTRUCTED OF PRECAST CONCRETE AND MUST HAVE WATERTIGHT SIZE ON SIZE RESILIENT CONNECTORS ALLOWING FOR DIFFERENTIAL SETTLEMENT. IF SANITARY SEWER MANHOLES ARE CONSTRUCTED WITHIN THE 100-YEAR FLOODPLAIN, THE COVER MUST HAVE A GASKET AND BE BOLTED TO THE RING. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE SANITARY SEWER MANHOLE.
3. ALL SANITARY SEWER LINES ENTERING A MANHOLE AT A FLOW LINE GREATER THAN 36" ABOVE THE MANHOLE INVERT MUST BE PROVIDED WITH AN EXTERNAL DROP CONNECTION AND HAVE THE INVERT FILLETED.
4. SANITARY SEWER MANHOLE RIMS OUTSIDE OF PROPOSED PAVING WILL BE SET 3” - 6” ABOVE THE SURROUNDING LEVEL FINISHED GRADE WITH SLOPED BACKFILL ADDED FOR STORM WATER TO DRAIN AWAY FROM MANHOLE RIM.
5. ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE CASTING CURRENTLY USED BY THE AUTHORITY HAVING JURISDICTION AND MUST INCLUDE THE WORDS "SANITARY SEWER". MANHOLES SHALL HAVE STAINLESS STEEL INSERTS (INFLOW PREVENTERS).
6. SANITARY SEWER PIPE SHALL CONFORM WITH ASTM D3034 SDR 26 SEWER PIPE, ASTM D2241 SDR 26 PRESSURE RATED SEWER PIPE OR AWWA C-900 DR-18 GREEN PVC PRESSURE RATED SEWER PIPE BASED ON CONSTRUCTION CONDITION REQUIREMENTS.
7. ALL BENDS IN THE LINES SHALL BE MADE WITH EITHER "WYES" OR DOUBLE 45° BENDS, NO 90° BENDS SHALL BE USED.
8. ALL TRENCH BACKFILL SHALL BE PLACED IN 8 INCH LIFTS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 92% OF THE MAXIMUM DRY DENSITY FOR LANDSCAPED AREAS OR 95% OF THE MAXIMUM DRY DENSITY FOR PAVED AREAS AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
9. CONTRACTOR SHALL PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 9' BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES.
10. WHERE WATER LINES AND NEW SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN 9' THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) OR 30 TAC §290.44(E).
11. DEFLECTION TESTS MUST BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIDGID SANITARY SEWER PIPES IN ACCORDANCE WITH 30 TAC §217.57(B).
12. ALL SANITARY SEWER MANHOLES MUST BE VACUUM TESTED IN ACCORDANCE WITH 30 TAC §217.58(B)(2).
13. ALL SANITARY SEWER LINES MUST BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH 30 TAC §217.57(A)(1).
14. ALL SANITARY SEWER MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC §217.58.

STORM SEWER CONSTRUCTION NOTES

1. NORMAL BEDDING AND BACKFILL FOR STORM SEWER LINES SHALL BE 1.5 SACK PER CUBIC YARD CEMENT STABILIZED SAND TO 12 INCHES ABOVE THE PIPE. FOR STORM SEWER LINES UNDER OR WITHIN 3 FEET 0F PAVEMENT OR STRUCTURES THE CEMENT STABILIZED SAND SHALL BE EXTENDED TO THE BOTTOM OF THE PAVEMENT OR STRUCTURE.
2. ALL STRUCTURES ARE TO BE CONSTRUCTED OF PRECAST CONCRETE. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF STORM SEWER STRUCTURES.
3. STORM SEWER SHALL BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR/SMOOTH INTERIOR PIPE (ASTM F2306) WITH WATER TIGHT JOINTS (ASTM D3212) OR REINFORCED CONCRETE PIPE (C-76, CLASS III) WITH RUBBER GASKET JOINTS (ASTM C443), UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
4. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS/SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE
5. ALL TRENCH BACKFILL SHALL BE PLACED IN 8 INCH LIFTS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 92% OF THE MAXIMUM DRY DENSITY FOR LANDSCAPED AREAS OR 95% OF THE MAXIMUM DRY DENSITY FOR PAVED AREAS AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
6. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 8” BRICK WALLS UNLESS OTHERWISE NOTED.
7. MINIMUM HORIZONTAL CLEARANCE BETWEEN ANY STORM PIPE OR STRUCTURE SHALL BE AT LEAST 48 INCHES FROM EXTERIOR OF THE STORM PIPE OR STRUCTURE TO THE EXTERIOR OF THE EXISTING OR PROPOSED UTILITY AND OTHER APPURTENANCES. MINIMUM VERTICAL CLEARANCE BETWEEN ANY STORM PIPE OR STRUCTURE SHALL BE AT LEAST 12 INCHES FROM EXTERIOR OF THE STORM PIPE OR STRUCTURE TO THE EXTERIOR OF THE EXISTING OR PROPOSED UTILITY AND OTHER APPURTENANCES.
8. ALL BUILDING AND CANOPY DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM SEWER SYSTEM WITH ASTM D3034 SDR 26 SEWER PIPE OR ASTM D-1784 SCH 40 PIPE, AT A MINIMUM GRADE OF 1.00% UNLESS NOTED OTHERWISE. LINES SHALL BE A 6 INCH MINIMUM FOR DOWNSPOUTS. ONCE TWO OR MORE DOWNSPOUTS ARE CONNECTED THE COLLECTOR LINE SHALL BE 12" UNLESS NOTED OTHERWISE. WHERE DOWNSPOUT COLLECTORS ARE LOCATED IN PAVED AREAS, PROVIDE A 24"X24" BLOCKOUT AROUND PIPE. REFER TO DETAILS.
8. ALL BENDS IN THE LINES SHALL BE MADE WITH EITHER "WYES" OR DOUBLE 45° BENDS, NO 90° BENDS SHALL BE USED.
9. THE CONTRACTOR SHALL INSTALL DRIVEWAY CULVERT(S), SET'S, AND JUNCTION BOX(ES) LOCATED IN THE RIGHT-OF-WAY PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
10. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.

CIVIL GENERAL CONSTRUCTION NOTES

1. ALL CONTRACT ITEMS SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATION AND THE REQUIREMENTS OF ANY LOCAL AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION A MINIMUM OF 48-HOURS IN ADVANCE OF COMMENCING CONSTRUCTION FOLLOWED BY A LETTER OF CONFIRMATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR CONSTRUCTION.
4. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ETC. HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
7. IRON RODS OR BENCHMARKS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PUBLIC LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
8. CONSTRUCTION STAKING WILL BE PROVIDED BY THE CONTRACTOR. TWO COPIES OF STAKING NOTES SHALL BE PROVIDED TO THE OWNER PRIOR CONSTRUCTION.
9. THE CONTRACTOR STAGING AREA SHALL BE DETERMINED BY THE CONTRACTOR WITH CONCURRENCE BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION.
10. INGRESS AND EGRESS SHALL BE PROVIDED FOR TRAFFIC DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS A MINIMUM OF TWO WEEKS PRIOR TO BLOCKING DRIVEWAYS OR ENTERING EASEMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
13. THE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT SITE REASONABLY AND IN USEABLE CONDITION THROUGHOUT THE PROGRESS OF THE WORK. AT THE COMPLETION OF THE PROJECT ALL EXCESS MATERIALS, TRASH AND DEBRIS, ETC., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER AND THE SITE LEFT IN A CLEAN AND WORKMANLIKE CONDITION BEFORE FINAL ACCEPTANCE.
15. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD, ETC. DURING THE COURSE OF CONSTRUCTION.
16. UPON COMPLETION OF THE WORK THE CONDITION OF THE ROAD, RIGHT-OF-WAY AND/OR DISTURBED AREAS SHALL BE RESTORED TO AS GOOD OR BETTER CONDITION THAN EXISTED PRIOR TO THE START OF CONSTRUCTION.
17. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF SEDIMENT IN ALL DRAINAGE STRUCTURES IMPACTED BY THE WORK.
18. THE CONTRACTOR IS RESPONSIBLE FOR MOWING MAINTENANCE AND CLEAN-UP OF THE PROJECT FOR THE ENTIRE LIMITS OF THE PROJECT AND FOR THE ENTIRE DURATION OF THE PROJECT, REGARDLESS OF THE CONTRACTOR'S SCOPE OF ACTIVITIES WITHIN THE PROJECT LIMITS.
19. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF NEW SWALES/DITCHES AND MAINTAINING EXISTING DITCHES AND/OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AUTHORITY.
20. THE REMOVAL OR RELOCATION OF ANY UTILITIES, CULVERTS, FENCES, ETC. REQUIRED TO COMPLETE THE WORK IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING EXISTING STRUCTURES, UTILITIES, PAVEMENT, PAVEMENT MARKINGS, TREES, SHRUBS, FENCES AND OTHER IMPROVEMENTS TO REMAIN FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STOCKPILE NECESSARY MATERIAL ON-SITE OR SECURED OFF-SITE AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL SPOILS FROM STORM SEWER, ROADWAY AND CHANNEL EXCAVATION, IF SUITABLE, SHALL BE CONSUMED BEFORE FILL IS BROUGHT ON SITE.
23. ALL FILL UNDER AND WITHIN FIVE (5) FEET OF PAVEMENT, SIDEWALKS AND STRUCTURES SHALL BE COMPACTED TO 95% ASTM D698 DRY DENSITY. FILL IN ALL OTHER AREAS SHALL BE COMPACTED TO 92% OF ASTM D968 DRY DENSITY.
24. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. ALL OPEN CUTS SHALL BE COVERED WITH STEEL PLATES WHEN WORK IS NOT IN PROGRESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE PUBLIC OUT OF THE WORK AREA.
25. THE CONTRACTOR SHALL MAINTAIN UPDATED REDLINE RECORD DRAWINGS ON SITE FOR INSPECTION BY THE OWNER.
26. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MOST RECENT EDITION OF "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT NO ADDITIONAL COST TO THE OWNER.
27. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOTIFY TEXAS 811 AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
28. THE CONTRACTOR SHALL COORDINATE WITH ANY OTHER CONTRACTOR(S) OF ANY TRADE OR DISCIPLINE WORKING ADJACENT TO THE PROJECT PRIOR TO AND THROUGHOUT CONSTRUCTION.
29. WHEELCHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT TXDOT & TAS STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST OR ARE TO BE CONSTRUCTED AS PART OF THIS PROJECT.
30. EXCAVATION, BEDDING AND BACKFILL SHALL BE INCIDENTAL TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY.
31. MANHOLES, JUNCTION BOXES, INLETS AND RISERS ARE TO BE PRE-CAST OR CAST-IN-PLACE.
32. PIPE SLEEVES ARE TO BE 6" PVC, SCHEDULE 40 PIPE CAPPED AT EACH END. THE TOP OF THE PIPE SLEEVE SHALL BE 12" TO 18" BELOW THE BOTTOM OF CONCRETE PAVEMENT OR WALK. EACH END SHALL EXTEND A MINIMUM OF TWO (2) FEET BEYOND THE EDGE OF CONCRETE PAVEMENT OR WALK. LOCATION OF EACH END TO BE MARKED IN CURB OR PAVEMENT WITH BRASS BOLTS.
33. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
34. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD, UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
36. THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES WHERE THEY CROSS PROPOSED UTILITIES AND ENSURE THAT THERE ARE NO CONFLICTS PRIOR TO BEGINNING CONSTRUCTION. ADDITIONALLY, CONTRACTOR SHALL PLAN UTILITY LINE INSTALLATIONS IN A MANNER TO AVOID CONFLICTS WITH PROPOSED UTILITIES.
37. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND PROCEED UPSTREAM. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. ANY OTHER WORK SEQUENCE WILL BE AT THE CONTRACTOR'S RISK.
38. THE CONTRACTOR SHALL INSTALL AN 18-INCH WIDE STRIP OF BERMUDA GRASS SOLID SOD ADJACENT TO ALL CURBS, DRIVES, WALKS AND/OR INLETS. COORDINATE W/LANDSCAPE DRAWINGS.
39. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.

EROSION CONTROL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT, IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ANY EROSION CONTROL SHOWN IN THESE DRAWINGS IS PROVIDED FOR PERMITTING/REFERENCE ONLY.
2. THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND PAY ANY FEES AT LEAST 7 DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITIES. THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND A DECLARATION THAT IT HAS BEEN SUBMITTED TO THE ENGINEER.
3. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES, REINFORCED FILTER FABRIC BARRIERS, ROCK FILER DAMS, ETC. AS REQUIRED TO KEEP SILT AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
4. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION 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 FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
5. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
6. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
7. 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.
   - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
   - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
   - STRUCTURAL CONTROL MEASURES.
   - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
9. 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.
11. UPON COMPLETION OF CONSTRUCTION ACTIVITIES AND FINAL STABILIZATION OF THE SITE, AS DEFINED BY THE TPDES GENERAL PERMIT, THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO THE TCEQ. THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOT AND A DECLARATION THAT IT HAS BEEN SUBMITTED TO THE ENGINEER.
12. THE SWPPP, INSPECTION & MAINTENANCE REPORTS, CERTIFICATIONS, RAINFALL RECORDS, MAJOR GRADING DATE RECORDS AND TEMPORARY/PERMANANT STABILIZATION DATE RECORDS SHALL BE KEPT CURRENT BY THE CONTRACTOR.

N

0' 10' 20' 40'

SCALE: 1" = 20'

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M). VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user 's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user 's sole risk and shall not form the basis for a request for additional compensation or time.

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C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2023 BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
CIVIL GENERAL CONSTRUCTION NOTES

SHEET NUMBER
C0.01

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PLOTTED: 9/12/2025 9:24 AM
PLOT STYLE: AURIC2.0.STB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\0102.0106-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWINGS\03-SHEETS\C0.01 CIVIL GENERAL CONSTRUCTION NOTES.DWG

STATE OF TEXAS §

COUNTY OF FORT BEND §

We, Fort Bend Independent School District, acting by and through Kristin K. Tassin, President, and Jason Burdine, Vice President, being officers of Fort Bend Independent School District, owners hereinafter referred to as Owners of the 64.096 acre tract described in the above and foregoing map of Fort Bend ISD Willowridge High School, do hereby make and establish said subdivision and development plan of said property according to all lines, dedications, restrictions, and notations on said maps or plat and hereby dedicate to the use of the public forever, all streets (except those streets designated as private streets, or permanent access easements), alleys, parks, water courses, 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 on the land so dedicated.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purposes forever unobstructed aerial easements. The aerial easements shall extend horizontally an additional eleven feet, six inches (11' 6") for ten feet (10' 0") perimeter ground easements or seven feet, six inches (7' 6") for fourteen feet (14' 0") perimeter ground easements or five feet, six inches (5' 6") for sixteen feet (16' 0") perimeter ground easements, from a plane sixteen feet (16' 0") above the ground level upward, located adjacent to and adjoining said public utility easements that are designated with aerial easements (U.E. and A.E.) as indicated and depicted hereon, whereby the aerial easement totals twenty one feet, six inches (21' 6") in width.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purpose forever unobstructed aerial easements. The aerial easements shall extend horizontally an additional ten feet (10' 0") for ten feet (10' 0") back-to-back ground easements, or eight feet (8' 0") for fourteen feet (14' 0") back-to-back ground easements or seven feet (7' 0") for sixteen feet (16' 0") back-to-back ground easements, from a plane sixteen feet (16' 0") above ground level upward, located adjacent to both sides and adjoining said public utility easements that are designated with aerial easements (U.E. and A.E.) as indicated and depicted hereon, whereby the aerial easement totals thirty feet (30' 0") in width.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plat is hereby restricted to prevent the drainage of any septic tanks into any public or private street, permanent access easement, road or alley, or any drainage ditch, either directly or indirectly.

FURTHER, Owners do hereby dedicate to the public a strip of land fifteen feet (15' 0") wide on each side of the center line of any and all bayous, creeks, gullies, ravines, draws, sloughs or other natural drainage courses located in said plat, as easements for drainage purposes, giving the City of Houston, Harris County, or any other governmental agency, the right to enter upon said easement at any and all times for the purpose of construction and maintenance of drainage facilities and structures.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plat and adjacent to any drainage easement, ditch, gully, creek or natural drainage way shall hereby be restricted to keep such drainage ways and easements clear of fences, buildings, planting and other obstructions to the operations and maintenance of the drainage facility and that such abutting property shall not be permitted to drain directly into this easement except by means of an approved drainage structure.

FURTHER, Owners hereby certify that this replat does not attempt to alter, amend, or remove any covenants or restrictions; we further certify that no portion of the preceding plat was limited by deed restriction to residential use for not more than two (2) residential units per lot.

IN TESTIMONY WHEREOF, the Fort Bend Independent School District, has caused these presents to be signed by Kristin K. Tassin, President, and Jason Burdine, Vice President, this 23rd day of October 2017.

Fort Bend Independent School District

By: _____ Kristin K. Tassin, President

By: _____ Jason Burdine, Vice President

STATE OF TEXAS §

COUNTY OF FORT BEND §

BEFORE ME, the undersigned authority, on this day personally appeared appeared Kristin K. Tassin, President and Jason Burdine, Vice President, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they 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 23rd day of October 2017.

Notary Public in and for the State of Texas

Jayne Keyser
(Print Name)

June 2 2020
My Commission Expires:

JAYNE KEYSER
Notary ID # 130009003
My Commission Expires
June 2, 2020

I, Joel D. Walker, 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 accurate; was prepared from an actual survey of the property made under my supervision on the ground; that, except as shown all boundary corners, angle points, points of curvature and other points of reference have been marked with iron (or other objects of a permanent nature) pipes or rods having an outside diameter of not less than five eighths (5/8) inch and a length of not less than three (3) feet; and that the plat boundary corners have been tied to the Texas Coordinate System of 1983, south central zone.

Joel D Walker 11/8/17
Joel D. Walker Date
Texas Registration No. 5189

STATE OF TEXAS
REGISTERED
JOEL D. WALKER
5189
PROFESSIONAL
SURVEYOR

I, Laura Richard, County Clerk in and for Fort Bend County, hereby certify that the foregoing instrument with its certificate of authentication was filed for registration in my office on October 25, 2017, at 8:40 o'clock a.m. in said county and duly recorded on the 5th day of December, 2017, at 2:40 o'clock p.m. in said number 2017133540 of the Plat Records of Fort Bend County, Texas.

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

Laura Richard
Laura Richard
County Clerk
Fort Bend County, Texas

By: Patricia Pledger
Deputy

PATRICIA PLEDGER

This is to certify that the Planning Commission of the City of Houston, Texas, has approved this plat and subdivision of Fort Bend ISD Willowridge High School in conformance with the laws of the State of Texas and the ordinances of the City of Houston, as shown hereon, and authorized the recording of this plat this 14 day of DECEMBER 2017.

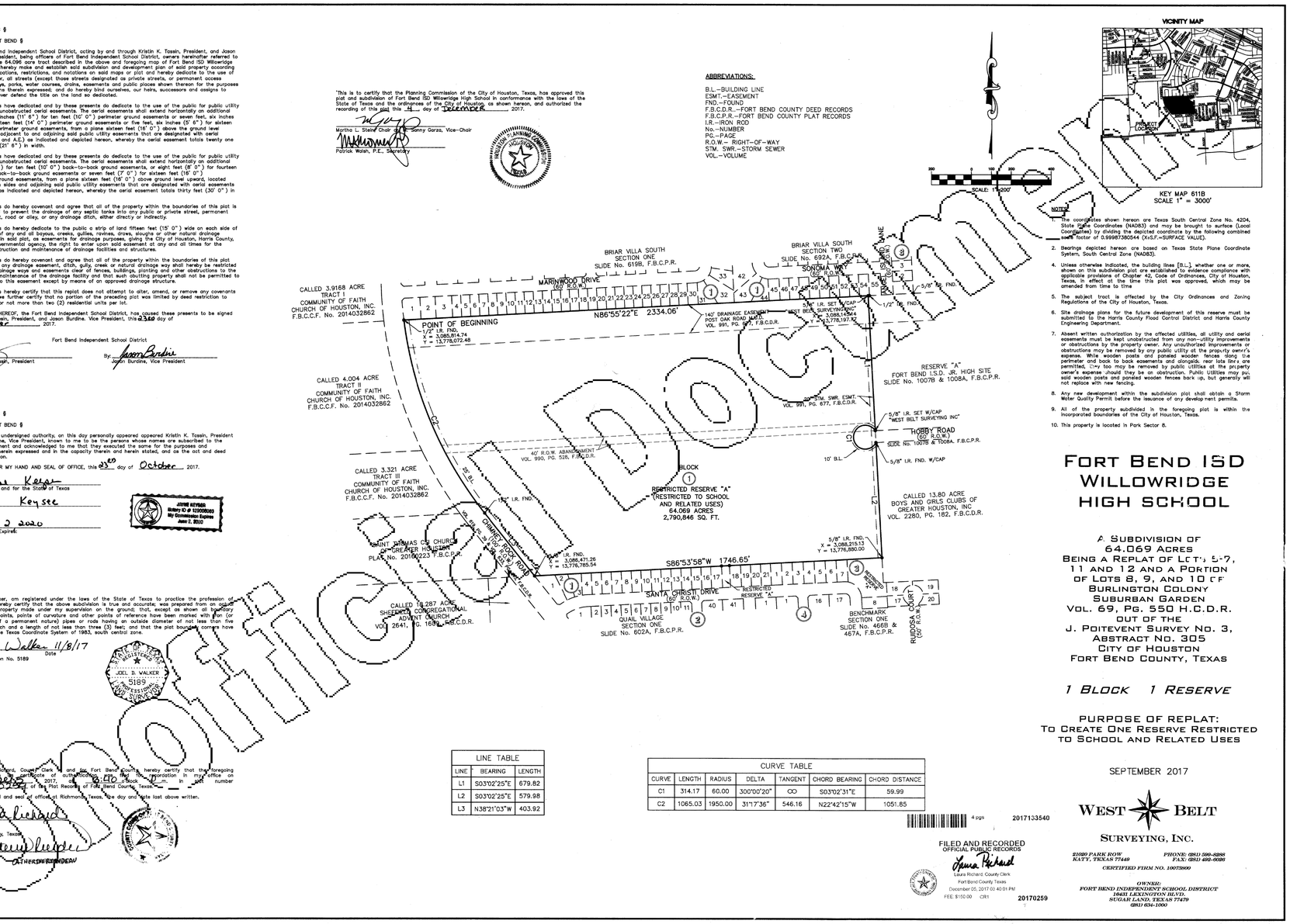
Martha L. Stein, Chair — Sonny Garza, Vice-Chair

Patrick Walsh, P.E., Secretary

HOUSTON PLANNING COMMISSION TEXAS

ABBREVIATIONS:

B.L.—BUILDING LINE
ESMT.—EASEMENT
FND.—FOUND
F.B.C.D.R.—FORT BEND COUNTY DEED RECORDS
F.B.C.P.R.—FORT BEND COUNTY PLAT RECORDS
I.R.—IRON ROD
No.—NUMBER
PG.—PAGE
R.O.W.— RIGHT-OF-WAY
STM. SWR.—STORM SEWER
VOL.—VOLUME



LINE TABLE		
LINE	BEARING	LENGTH
L1	S03°02'25"E	679.82
L2	S03°02'25"E	579.98
L3	N38°21'03"W	403.92

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD BEARING	CHORD DISTANCE
C1	314.17	60.00	300°00'20"	∞	S03°02'31"E	59.99
C2	1065.03	1950.00	31°17'36"	546.16	N22°42'15"W	1051.85

4 pgs 2017133540

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS
Laura Richard
Laura Richard, County Clerk
Fort Bend County, Texas
December 05, 2017 02:40:01 PM
FEE: $150.00 CR1 20170259

VICINITY MAP

KEY MAP 611B
SCALE 1" = 3000'

SCALE: 1" = 200'

NOTES:

1. The coordinates shown hereon are Texas South Central Zone No. 4204, State Plane Coordinates (NAD83) and may be brought to surface (Local Coordinates) by dividing the depicted coordinate by the following combined scale factor of 0.99987380544 (XxS.F.=SURFACE VALUE).
2. Bearings depicted hereon are based on Texas State Plane Coordinate System, South Central Zone (NAD83).
4. Unless otherwise indicated, the building lines [B.L.], whether one or more, shown on this subdivision plat are established to evidence compliance with applicable provisions of Chapter 42, Code of Ordinances, City of Houston, Texas, in effect at the time this plat was approved, which may be amended from time to time
5. The subject tract is affected by the City Ordinances and Zoning Regulations of the City of Houston, Texas.
6. Site drainage plans for the future development of this reserve must be submitted to the Harris County Flood Control District and Harris County Engineering Department.
7. Absent written authorization by the affected utilities, all utility and aerial easements must be kept unobstructed from any non-utility improvements or obstructions by the property owner. Any unauthorized improvements or obstructions may be removed by any public utility at the property owner's expense. While wooden posts and paneled wooden fences along the perimeter and back to back easements and alongside, rear lots line are permitted, they too may be removed by public utilities at the property owner's expense should they be an obstruction. Public Utilities may put solid wooden posts and paneled wooden fences back up, but generally will not replace with new fencing.
8. Any new development within the subdivision plat shall obtain a Storm Water Quality Permit before the issuance of any development permits.
9. All of the property subdivided in the foregoing plat is within the incorporated boundaries of the City of Houston, Texas.
10. This property is located in Park Sector 8.

FORT BEND ISD WILLOWRIDGE HIGH SCHOOL

A SUBDIVISION OF
64.069 ACRES
BEING A REPLAT OF LOT 1, LOT 7, 11 AND 12 AND A PORTION OF LOTS 8, 9, AND 10 OF BURLINGTON COLONY SUBURBAN GARDEN VOL. 69, PG. 550 H.C.D.R. OUT OF THE J. POITEVENT SURVEY NO. 3, ABSTRACT NO. 305 CITY OF HOUSTON FORT BEND COUNTY, TEXAS

1 BLOCK 1 RESERVE

PURPOSE OF REPLAT:
TO CREATE ONE RESERVE RESTRICTED TO SCHOOL AND RELATED USES

SEPTEMBER 2017

WEST BELT
SURVEYING, INC.

21020 PARK ROW
KATY, TEXAS 77449
PHONE: (281) 599-5885
FAX: (281) 492-0586
CERTIFIED FIRM NO. 10073900

OWNER:
FORT BEND INDEPENDENT SCHOOL DISTRICT
16431 LEXINGTON BLVD.
SUGAR LAND, TEXAS 77479
(281) 634-1000

Texas 811
Know what's below.
Call before you dig.

auric ENGINEERS
TEXAS ENGINEERING FIRM 20740
520 POST OAK BLVD.
SUITE 895
HOUSTON, TEXAS 77027
AURICENGINEERS.COM

Official Document

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M), VERSOPN MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

△	DATE	ISSUE
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Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive
Houston Texas 77024
713 850 9600
kirksey.com

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
PLAT

SHEET NUMBER
C1.00

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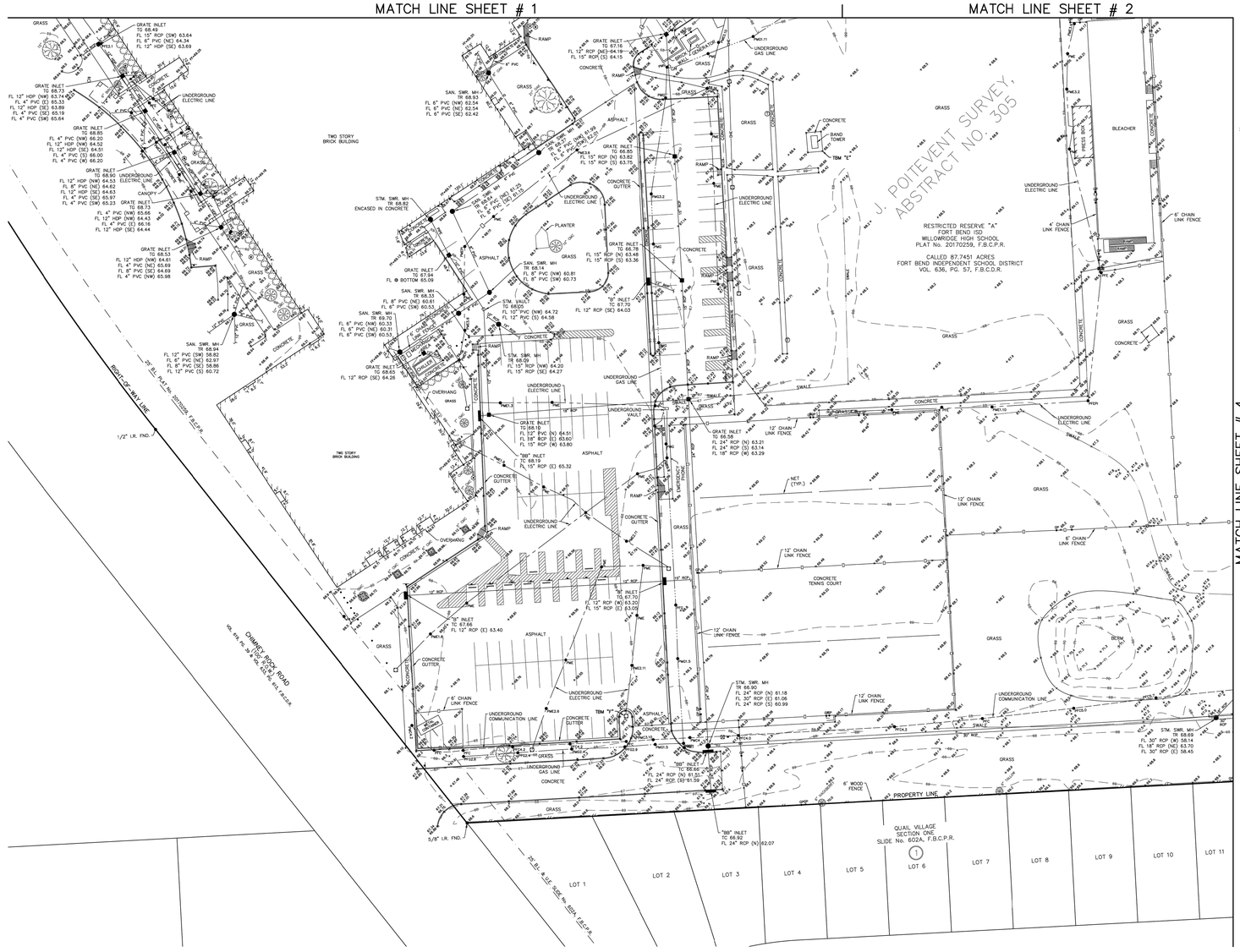
PLOTTED: 9/12/2025 9:24 AM
PLOT STYLE: AIA(C2.0).STB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\0102.01\06-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWING\03-SHEETS\C1.00 PLAT.DWG



SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. 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 0.99987410737.

3. ACCORDING TO F.I.R.M. MAP NO. 48157C0305M (COMMUNITY-PANEL NO. 480296030SM), VERSION NO. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. 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.

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

5. →\ INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB-OUT.

6. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARKS WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

7. THE SUBJECT TRACT IS AFFECTED BY THE CITY OF HOUSTON ORDINANCE No. 85-1878, AMENDED BY ORDINANCE No. 1999-262.

REFERENCE BENCHMARK:

NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 5.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY. ELEVATION = 62.40' (NAVD 88)

TEMPORARY BENCHMARKS:

TBM"A" - BOX CUT ON TOP OF "BB" INLET LOCATED ON THE SOUTH SIDE OF CONCRETE DRIVE NORTH OF PARKING LOT ON NORTH SIDE OF SCHOOL AND ON THE SECOND "BB" INLET ±1,054 FEET EAST OF CHIMNEY ROCK ROAD.
ELEVATION= 66.36'

TBM "C" - BOX CUT ON CONCRETE LOCATED AT THE NORTHEAST CORNER OF BLEACHERS FOR BASEBALL FIELD.
ELEVATION=69.28'

TBM"E" - BOX CUT ON THE SOUTHEAST CORNER OF CONCRETE SLAB FOR BAND TOWER LOCATED ±212 FEET, NORTH OF THE TENNIS COURTS.
ELEVATION=68.79'

TBM"F" - BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE WEST SIDE OF PARKING LOT ENTRANCE ON THE SOUTH SIDE OF THE SCHOOL.
ELEVATION= 70.34'

TBM"Y" - BOX CUT ON TOP OF CONCRETE BASE FOR LIGHT STANDARD LOCATED ON THE EAST SIDE OF CONCRETE DRIVE FOR BUS DROP OFF ON THE NORTH SIDE OF THE SCHOOL.
ELEVATION= 69.45'

SURVEYOR'S CERTIFICATE

To: Fort Bend Independent School District

I, Brian J. Maddox, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that I have prepared this map from an actual on the ground survey of the land, and the monuments shown thereon were found under my personal supervision in accordance with the Surveying Rules and Regulations of the State of Texas. This survey substantially conforms to a Category 6, Condition II Topographic Survey.

Brian J. Maddox
Registered Professional Land Surveyor No. 5430
Surveyed on the ground February 22, 2024

STATE OF TEXAS — REGISTERED — BRIAN J. MADDOX — 5430 — PROFESSIONAL LAND SURVEYOR

ABBREVIATIONS

B.L.–BUILDING LINE
CMC–CREPE MYRTLE CLUSTER
F.B.C.D.R.–FORT BEND COUNTY DEED RECORDS
F.B.C.P.R.–FORT BEND COUNTY PLAT RECORDS
FF–FINISH FLOOR
FL–FLOW LINE
FND.–FOUND
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
TBM–TEMPORARY BENCHMARK
TC–TOP OF CURB
TRF–PAD MOUNTED TRANSFORMER
TG–TOP OF GRATE
TR–TOP OF RIM
UGV–UNDERGROUND VAULT
VOL.–VOLUME

LEGEND

"S" INLET
"BB" INLET
BENCHMARK
BOLLARD
CLEANOUT
ELECTRIC JUNCTION BOX
FLAG POLE
GATE POST
GREASE TRAP
GUY WIRE
INLET
IRRIGATION CONTROL VALVE
LIGHT STANDARD
MANHOLE
PAINT MARKER (COMMUNICATIONS)
PAINT MARKER (ELECTRIC)
PAINT MARKER (GAS)
PEDESTAL
POWER POLE
SAMPLE WELL
SHRUB
SIGN
TRASH CAN
WATER METER
WATER VALVE
WHEEL STOP

TOPOGRAPHIC SURVEY OF

FORT BEND INDEPENDENT SCHOOL DISTRICT
WILLOWRIDGE HIGH SCHOOL

SITUATED IN THE
J. POITEVENT SURVEY, ABSTRACT NUMBER 305
CITY OF HOUSTON
FORT BEND COUNTY, TEXAS

PROJECT INFORMATION
Project No. FBI 24048
Date:February 23, 2024
Drawn By: DB
Checked By: JDW
Scale: 1"=30'
Sheet: 3 of 4

tnp

SURVEYOR
TEAGUE NALL AND PERKINS, INC.
1221 Park West Green Drive, Suite 100
Katy, Texas 77493
832.220.1205 ph 214.461.9864 fx
TBPLS Registration No. 10194381
www.tnpinc.com

Texas 811 — Know what's below. Call before you dig.

SCALE: CUSTOM

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 5.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
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Kirksey ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
kirksey.com

STATE OF TEXAS — DUSTIN A. HANNAH — 101103 — LICENSED PROFESSIONAL ENGINEER — 09/16/2025

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PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NUMBER
C1.01

auric ENGINEERS
TEXAS ENGINEERING FIRM 20740
520 POST OAK BLVD.
SUITE 895
HOUSTON, TEXAS 77027
AURICENGINEERS.COM

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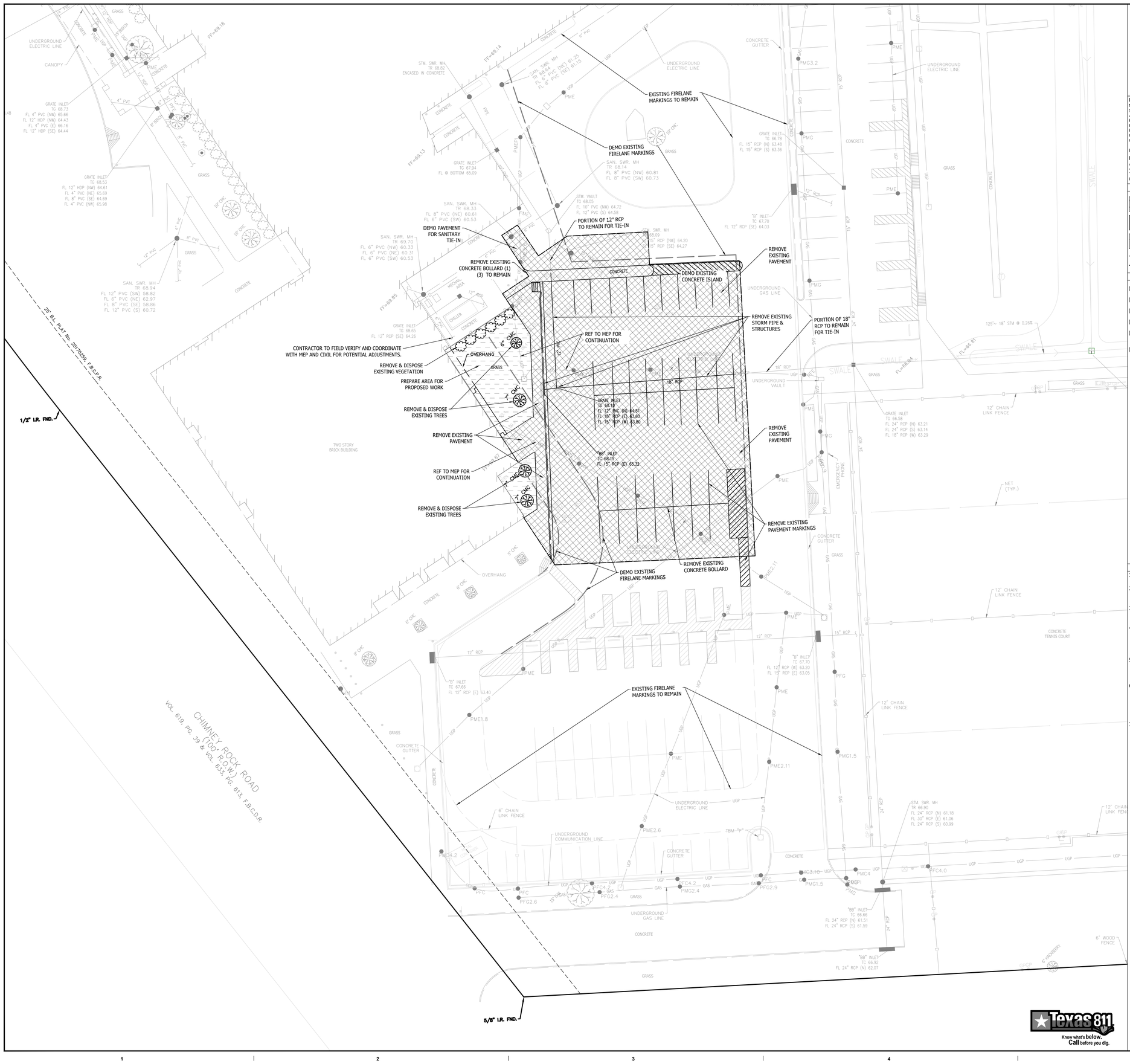
PLOTTED: 9/12/2025 9:24 AM
PLOT STYLE: AURIC2A3TB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\0102.01\06-FBISD WILLOWRIDGE HS FINE ART\SPR\OBJECT FILES\01-CIVIL\06-DRAWING\03-SHEETS\C1.01 TOPOGRAPHIC SURVEY.DWG



Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

0' 10' 20' 40'

SCALE: 1" = 20'

PROJECT BENCHMARK:
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LEGEND

- REMOVE AND DISPOSE OF EXIST. PAVEMENT, CURB, WALK AND PREPARE AREA FOR PROP. WORK
- REMOVE AND DISPOSE OF EXIST. STRUCTURE AND PREPARE AREA FOR PROP. WORK
- CLEAR, GRUB AND PREPARE AREA FOR PROP. WORK
- EXIST. ITEM TO BE REMOVED AND DISPOSED OF
- SAW CUT EXISTING PAVEMENT

KEY NOTES

1. PROTECT EXIST. STRUCTURE
2. PROTECT EXIST. PAVEMENT
3. PROTECT EXIST. TREE
4. PROTECT EXIST. UTILITY
5. SALVAGE AND REINSTALL EXISTING RAILING REFERENCE ARCHITECT FOR FINISHING REQUIREMENTS
   PROTECT DOWNSPOUTS AND CONNECTIONS
6. THROUGHOUT. ADJUST AS NEEDED TO ACCOMMODATE PROPOSED PAVEMENT.

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, LANDSCAPE AND MEP DRAWINGS FOR ADDITIONAL REQUIREMENTS.
3. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD, UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING EXISTING STRUCTURES, UTILITIES, PAVEMENT, PAVEMENT MARKINGS, TREES, SHRUBS, FENCES AND OTHER IMPROVEMENTS TO REMAIN FROM DAMAGE.
5. THE REMOVAL OR RELOCATION OF ANY UTILITIES, CULVERTS, FENCES, ETC. REQUIRED TO COMPLETE THE WORK IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
6. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF NEW SWALES/DITCHES AND MAINTAINING EXISTING DITCHES AND/OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES.
7. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, SAW CUT AND EXPOSE 15" OF EXISTING REINFORCING STEEL. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS (#6 BARS 24" LONG) 24" C-C DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.

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LICENSED
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09/16/2025

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
CIVIL SITE DEMOLITION PLAN

SHEET NUMBER
C1.02

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PLOTTED: 9/12/2025 9:24 AM

PLOT STYLE: AURICCLS.STB

FILE PATH: C:_PROJECTS\XCCDOCS\AURIC ENGINEERS\U102.2106-FBISD WILLOWRIDGE HS FINE ART'S\PROJECT FILES\U1-CIVIL\06-DRAWINGS\D-SHEETS\C1.02 CIVIL SITE DEMOLITION PLAN.DWG

01 EXISTING AREAS- TO BE DEMOLISHED

02 PROPOSED IMPERVIOUS AREA

0' 15' 30' 60'

SCALE: CUSTOM

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M), VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

LEGEND

IMPERVIOUS AREAS

KEY NOTES

DETENTION SUMMARY:		
EXISTING AREAS TO BE REMOVED	0.47	AC
CITY OF HOUSTON REDUCED IMPERVIOUS CREDIT (0.40)	0.19	AC-FT/AC
NEW IMPERVIOUS AREA	0.52	AC
CITY OF HOUSTON DETENTION RATE	0.8	AC-FT/AC
REQUIRED DETENTION VOLUME W/ REDUCED CREDIT	0.23	AC-FT
EXIST DETENTION AVAILABLE (0.50 - 0.21 AC-FT)	0.29	AC-FT

DETENTION :
EXCESS VOLUME PROVIDED IN PREVIOUS WILLOWRIDGE HIGH SCHOOL PROJECT ILMS# 25025849.

NO ADDITIONAL DETENTION REQUIRED FOR FBISD WILLOWRIDGE HS RENOVATIONS PER CITY OF HOUSTON IDM MAY 2025

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
IMPERVIOUS AREAS

SHEET NUMBER
C1.03

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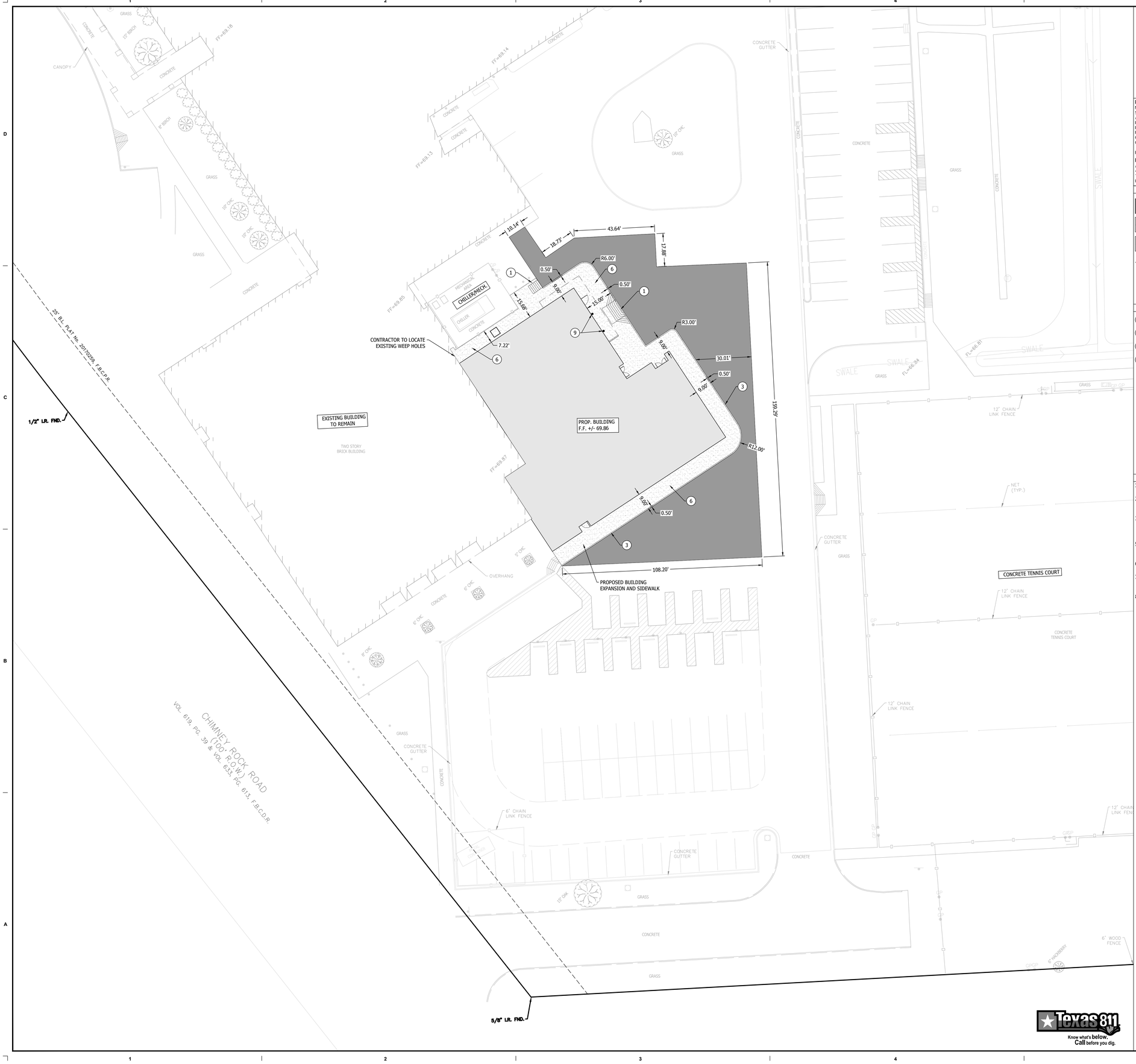
PLOT STYLE: AURIC22.0.STB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\0102.0106-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWINGS\03-SHEETS\C1.03 IMPERVIOUS AREA.DWG



0' 10' 20' 40'

SCALE: 1" = 20'

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 480296030SM), VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

LEGEND

- PROP. 7" REINFORCED CONCRETE PAVEMENT WITH 8" STABILIZED SUBGRADE
- PROP. 6" REINFORCED CONCRETE PAVEMENT WITH 6" STABILIZED SUBGRADE
- PROP. 4.5" REINFORCED CONCRETE WALK
- PROP. SAWED CONTRACTION JOINT

KEY NOTES

1. PROP. CURB RAMP WITH OUT TRUNCATED DOMES
3. PROP. 6" CURB (TYP.)
6. PROP. CONCRETE SIDEWALK
9. PROP. CONCRETE BOLLARD REF: DETAIL ON C7.00

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. SUBGRADE SHALL BE STABILIZED BY THE ADDITION OF LIME AND FLY ASH AT THE RATE OF 8% LIME AND 3% FLY ASH.
3. THE CONTRACTOR SHALL SUBMIT A DRAWING SHOWING THE PROPOSED POURING PLAN AND ANY MODIFICATIONS TO THE PROPOSED JOINT LAYOUT TO THE ENGINEER FOR REVIEW.
5. THE PAVEMENT JOINTING PLAN SHALL BE COORDINATED WITH THE LOCATION OF INLETS, MANHOLES LIGHT POLES, ETC. IN PAVED AREAS.
6. SAWED JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
7. REFERENCE THE ARCHITECTURAL SITE PLAN FOR SIDEWALK JOINT PATTERN. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.
8. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, SAW CUT AND EXPOSE 15" OF EXISTING REINFORCING STEEL. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS (#6 BARS 24" LONG) 24" C-C DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
CIVIL SITE PAVEMENT, DIMENSIONAL CONTROL, & JOINTING PLAN

SHEET NUMBER
C2.00

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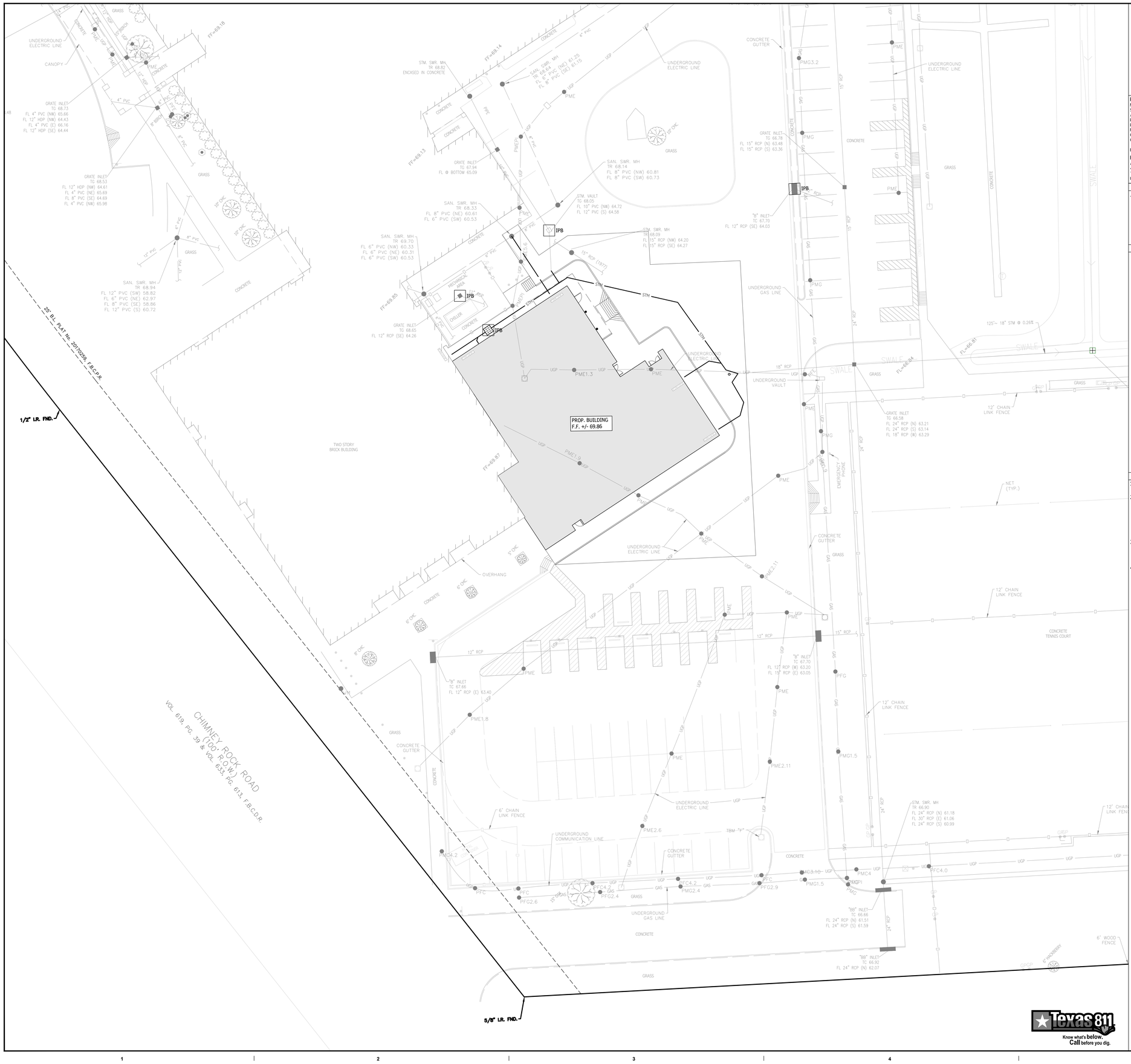
PLOTTED: 9/12/2025 9:24 AM
PLOT STYLE: AURICCJLSTB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\10102.0106-FBISD WILLOWRIDGE HS FINE ART'S\PROJECT FILES\01-CIVIL\06-DRAWINGS\02-SHEETS\C2.00 CIVIL SITE PLAN.DWG



PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
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LEGEND

RFB	PROP. REINFORCED SILT FENCE
SC	PROP. STABILIZED CONSTRUCTION ENTRANCE
CTW	PROP. CONCRETE WASHOUT
IPB	PROP. INLET PROTECTION (STAGE I & II AS REQ.)

KEY NOTES

NOTES

1. CONTRACTOR SHALL REFERENCE CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT, IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ANY EROSION CONTROL SHOWN IN THESE DRAWINGS IS PROVIDED FOR PERMITTING/REFERENCE ONLY.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
4. 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.
   - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
   - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
   - STRUCTURAL CONTROL MEASURES.
   - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

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LICENSED PROFESSIONAL ENGINEER
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SITE EROSION CONTROL PLAN

SHEET NUMBER
C2.01

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PLOT STYLE: AURIC2.CTB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\0102.0106-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWINGS\03-SHEETS\C2.01 SITE EROSION CONTROL PLAN.DWG

0' 10' 20' 40'

SCALE: 1" = 20'

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

ELEVATION = 62.40' (NAVD 88)

FLOODPLAIN INFORMATION:
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LEGEND

- PROP. WATER LINE
- PROP. TAPPING SLEEVE AND VALVE
- PROP. WATER METER
- PROP. BACKFLOW PREVENTER
- PROP. FIRE VAULT
- PROP. GATE VALVE
- PROP. FIRE HYDRANT WITH GATE VALVE
- PROP. REDUCER
- PROP. F.D.C.
- PROP. PLUG
- PROP. BLOW-OFF

KEY NOTES

1. CONTRACTOR SHALL LOCATE AND CONNECT TO THE EXISTING WATERLINE. CONNECTION SHALL BE MADE PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
2. X" WATER METER FOR DOMESTIC SERVICE, PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
3. X" WATER METER FOR FIRE SERVICE, PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
4. X" WATER METER FOR IRRIGATION SERVICE, PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION AND CONTINUATION)
5. REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH ENCLOSURE, MATCH SIZE OF WATERLINE, PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
6. DOUBLE DETECTOR CHECK BACKFLOW PREVENTER, MATCH SIZE OF WATERLINE, PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
7. POST INDICATOR VALVE (PIV), PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
8. FIRE DEPARTMENT CONNECTION (FDC), PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF: DETAILS)
9. 2" WATER LINE
10. 3" WATER LINE
11. 4" WATER LINE
12. CONNECT TO BUILDING WATER ENTRY. (REF: M.E.P. PLANS FOR LINE SIZE AND CONNECTION LOCATION)

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. ANY DESIGN DOCUMENTS RELATED TO THE FIRE SPRINKLER SYSTEM INCLUDING BUT NOT LIMITED TO PRIVATE FIRE SERVICE MAINS AND ASSOCIATED APPURTENANCES ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL CODE RESEARCH, OBTAINING ALL FLOW TEST DATA AND DESIGNING A COMPLETE FIRE PROTECTION SYSTEM THAT MEETS THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
3. FIRE APPARATUS ACCESS ROADS AND/OR A WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND OPERABLE PRIOR TO BEGINNING VERTICAL CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION EXCEPT WHERE THE FIRE MARSHAL APPROVES ALTERNATIVE METHODS OF PROTECTION PROVIDED BY THE CONTRACTOR.
4. AS REQUIRED BY THE FIRE CODE OFFICIAL, APPROVED SIGNS OR OTHER APPROVED NOTICES OR MARKINGS SHALL BE PROVIDED FOR FIRE APPARATUS ACCESS ROADS TO IDENTIFY SUCH ROADS OR PROHIBIT THE OBSTRUCTION THEREOF.

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT 2024

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SITE FIRE APPARATUS ACCESS PLAN

SHEET NUMBER
C2.02

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PLOT STYLE: AURIC2.0.STB
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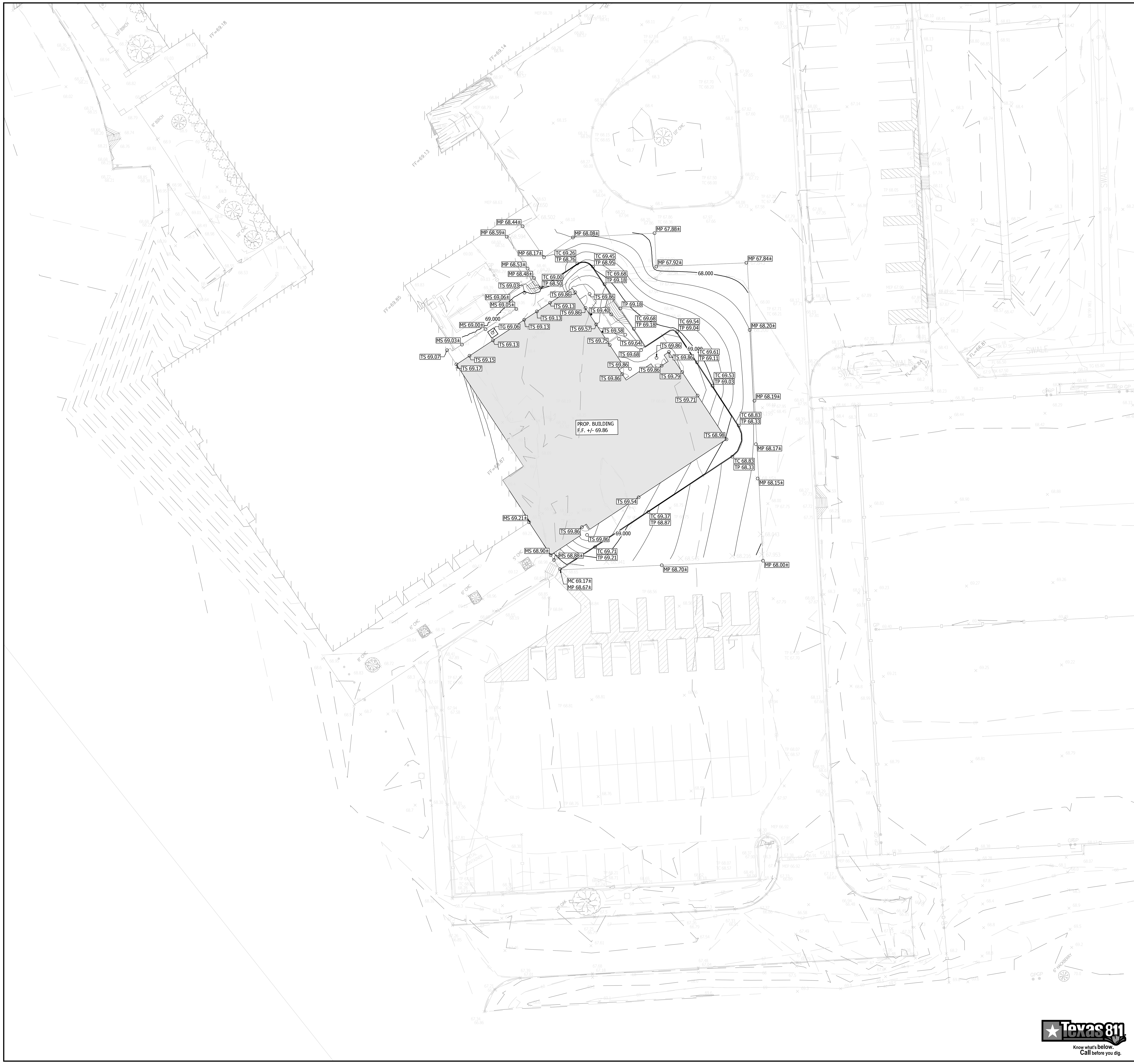

SCALE: 1" = 20'

PROJECT BENCHMARK:
NGS PID AW2041 - BRASS DISK STAMPED "Q 1214 1973" LOCATED 2.4 MILES SOUTH ALONG F.M. 521 FROM THE JUNCTION OF ANDERSON ROAD AT ALMEDA, AT THE JUNCTION OF AN ASPHALT ROAD WEST TO HEATRON STEEL PLANT, ON TOP OF THE CENTER OF THE SOUTH CONCRETE HEADWALL OF 1 36" PIPE CULVERT, 164' WEST AND ACROSS THE MISSOURI PACIFIC RAILROAD FROM THE CENTERLINE OF THE HIGHWAY, 23.5' SOUTH OF THE CENTERLINE OF THE ROAD, 6.5' SOUTHEAST OF THE SOUTH METAL GATE POST, 42.1' WEST OF THE WEST RAIL AND LEVEL WITH THE HIGHWAY.

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LEGEND

100	PROP. MAJOR CONTOUR LINE
100.00	PROP. MAJOR CONTOUR LINE
FG 100.00	PROP. SPOT ELEVATION
FF	FINISH FLOOR
TP	TOP OF PAVEMENT
TC	TOP OF CURB
TS	TOP OF WALK
FG	FINISH GRADE
FL	FLOWLINE
TG	TOP OF GRATE
TR	TOP OF RIM
TH	INLET THROAT ELEVATION
MP	MATCH TOP OF EXIST. PAVEMENT
MC	MATCH TOP OF EXIST. CURB
MS	MATCH TOP OF EXIST. SIDEWALK
MG	MATCH TOP OF EXIST. GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
SB	TOP OF STONE BASE
SS	TOP OF STABILIZED SUBGRADE

KEY NOTES

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.
3. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM ALL STRUCTURES AND NO PONDING IN PAVED AREAS, AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
4. CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE TO FINISH GRADE.
5. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE SPOT ELEVATIONS, CONTOUR LINES AND SLOPE ARROWS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN SPOT ELEVATIONS SHOWN. WHEN SPOT ELEVATIONS ARE SHOWN ALONG THE EDGE OF PAVEMENT, CURB, SIDEWALK, ETC., THE GRADING SHALL VARY UNIFORMLY ALONG THAT EDGE. THE CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE WITH NO STANDING WATER.

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STATE OF TEXAS
DUSTIN A. HANNAH
101103
LICENSED PROFESSIONAL ENGINEER
09/16/2025

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△	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SITE GRADING PLAN

SHEET NUMBER
C3.00

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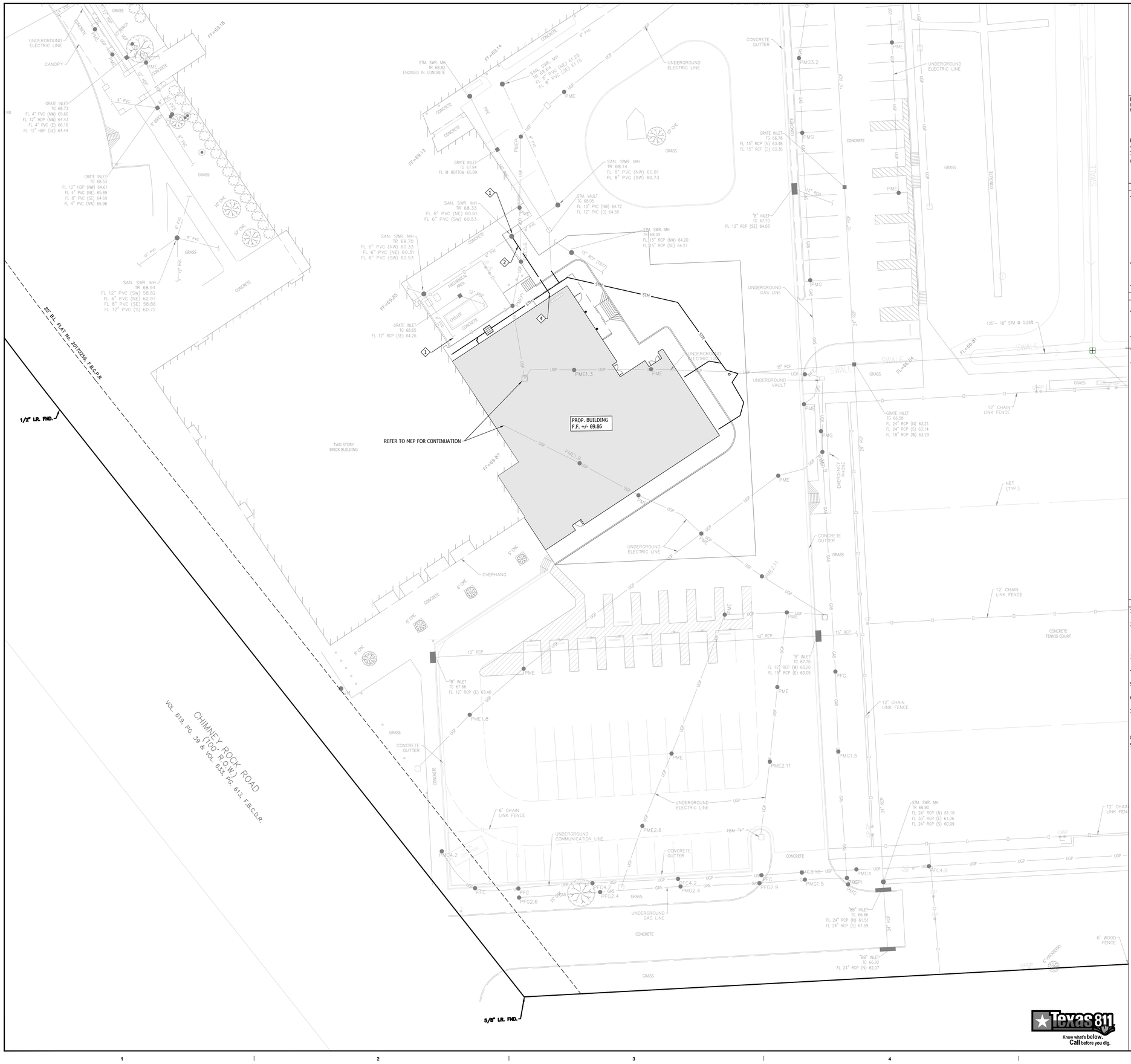

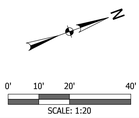

PROJECT BENCHMARK:
BRASS DISK STAMPED Q1214 1973
ELEV. = 62.40 FT NAVD 88, 2001

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M), VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

LEGEND

- PROP. WATER LINE
- PROP. TAPPING SLEEVE AND VALVE
- PROP. WATER METER
- PROP. BACKFLOW PREVENTER
- PROP. FIRE VAULT
- PROP. GATE VALVE
- PROP. FIRE HYDRANT WITH GATE VALVE
- PROP. REDUCER
- PROP. F.D.C.
- PROP. PLUG
- PROP. BLOW-OFF
- PROP. SANITARY SEWER LINE
- PROP. SANITARY SEWER MANHOLE
- PROP. SANITARY SEWER CLEAN-OUT
- PROP. WATER LINE AND SEWER LINE CROSSING

KEY NOTES

1. CONTRACTOR SHALL LOCATE AND CONNECT TO THE EXISTING SANITARY SEWER SYSTEM. CONNECTION SHALL BE MADE PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF. DETAILS)
2. 4" SSSWR @ 1.00% MIN.
3. 6" SSWR @ 1.00% MIN.
4. CONNECT TO BUILDING SEWER. (REF: M.E.P. PLANS FOR LINE SIZE, PIPE TYPE AND CONNECTION LOCATION)

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. LOCATION AND SIZES OF EXISTING LINES AND CONNECTIONS TO BUILDING STUBS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND SIZE OF ALL CONNECTIONS BEFORE BEGINNING CONSTRUCTION.
3. 2" THROUGH 3" WATER LINES SHALL BE ASTM D-2241 SDR 21 PVC PIPE.
4. 4" THROUGH 12" WATER LINES SHALL BE AWWA C-900 PVC DR-18 BLUE PRESSURE RATED WATER MAIN.
5. 2" AND LARGER WATER LINE FITTINGS SHALL BE MECHANICAL JOINT FITTINGS PER AWWA C-153.
6. WATER LINES AND FITTINGS SMALLER THAN 2" SHALL CONFORM TO ASTM D-1784 SCH 40.
7. WATER LINES TO HAVE 4' MINIMUM COVER TO FINISHED GRADE. WHERE WATER LINES AND SEWER LINES CROSS, THEY MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) OR 30 TAC §290.44(E).
8. ALL MANHOLES SHALL BE PRECAST CONCRETE.
9. SANITARY SEWER PIPE SHALL CONFORM WITH ASTM D3034 SDR 26, ASTM D2241 SDR 26 OR AWWA C-900 DR-18 BASED ON CONSTRUCTION CONDITION REQUIREMENTS.

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FORT BEND ISD INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
OVERALL SITE UTILITY PLAN

SHEET NUMBER
C4.00

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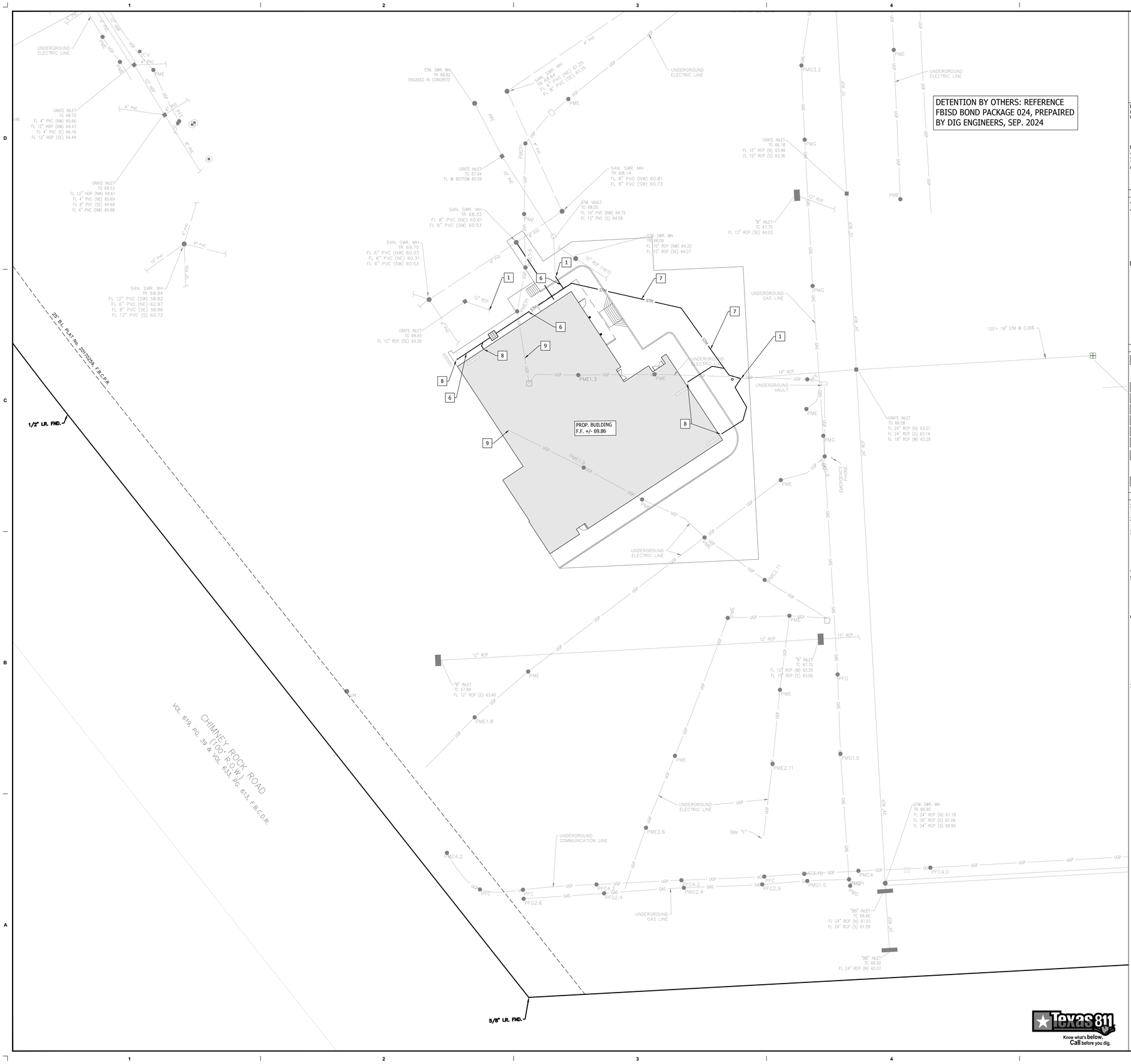
PLOTTED: 9/12/2025 9:24 AM
PLOT STYLE: AURIC2.0.STB
FILE PATH: C:_PROJECTS\ACCDOCS\AURIC ENGINEERS\10102.01\06-FBISD WILLOWRIDGE HS FINE ARTS\PROJECT FILES\01-CIVIL\06-DRAWINGS\03-SHEETS\C4.00 OVERALL SITE UTILITY PLAN .DWG



0' 10' 20' 40'

SCALE: 1:20

PROJECT BENCHMARK:
BRASS DISK STAMPED QL224 1973
ELEV. = 62.40 FT NAVD 88, 2001

FLOODPLAIN INFORMATION:
ACCORDING TO F.I.R.M MAP NO. 48157C0305M (COMMUNITY PANEL NO. 4802960305M), VERSOPM MP. 2.3.3.3, MAP REVISED DATE: JANUARY 29, 2021. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

LEGEND

- PROP. STORM SEWER LINE
- PROP. PERFORATED STORM SEWER LINE
- PROP. STORM SEWER MANHOLE
- PROP. GRATE INLET
- PROP. TYPE "C" CURB INLET
- PROP. TYPE "B-B" CURB INLET
- PROP. TYPE "H-2" CURB INLET
- PROP. TYPE "C-2" CURB INLET
- PROP. TYPE "E" INLET
- PROP. NYLOPLAST DRAIN
- PROP. CLEAN-OUT
- PROP. HEADWALL
- PROP. HEADWALL WITH FLARED WINGS
- PROP. DETENTION POND OUTFALL
- PROP. SAFETY END TREATMENT W/ PIPE RUNNERS
- PROP. SAFETY END TREATMENT

KEY NOTES

1. CONTRACTOR SHALL LOCATE AND CONNECT TO THE EXISTING STORM SEWER SYSTEM. CONNECTION SHALL BE MADE PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. (REF. DETAILS)
2. 6" STRM @ 1.00% MIN.
3. 8" STRM @ 1.00% MIN.
4. 10" STRM @ 1.00% MIN.
5. 12" STRM @ 1.00% MIN.
6. 15" STRM @ 0.33% MIN.
7. 18" STRM @ 0.26% MIN.
8. CONNECT TO BUILDING STORM LINE, DOWNSPOUT OR CANOPY DRAIN. (REF: ARCHITECTURAL AND/OR M.E.P. PLANS FOR LINE SIZE, PIPE TYPE AND CONNECTION LOCATION)
9. REFERENCE MEP DRAWINGS FOR RELOCATION AND REROUTING OF EXISTING UTILITY.

NOTES

1. CONTRACTOR SHALL REFERENCE CIVIL CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL MATCH THE SIZE AND MATERIAL OF BUILDING PLUMBING TO FIRST STRUCTURE.
3. LOCATION AND SIZES OF EXISTING LINES, CONNECTIONS TO BUILDING STUBS, DOWNSPOUTS AND CANOPY DRAINS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINAITNG THE LOCATION AND SIZE OF ALL CONNECTIONS BEFORE BEGINNING CONSTRUCTION.
4. ALL STRUCTURES TO BE PRECAST CONCRETE.
5. STORM SEWER SHALL BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR/SMOOTH INTERIOR PIPE (ASTM F2306) WITH WATER TIGHT JOINTS (ASTM D3212) OR REINFORCED CONCRETE PIPE (C-76, CLASS III) WITH RUBBER GASKET JOINTS (ASTM C443), UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
6. ALL BUILDING AND CANOPY DOWNSPOUTS SHALL BE CONNECTED TO THE UNDERGROUND STORM SEWER SYSTEM WITH ASTM D3034 SDR 26 SEWER PIPE OR ASTM D-1784 SCH 40 PIPE, AT A MINIMUM GRADE OF 1.00% UNLESS NOTED OTHERWISE. LINES SHALL BE A 6 INCH MINIMUM FOR DOWNSPOUTS. ONCE TWO OR MORE DOWNSPOUTS ARE CONNECTED THE COLLECTOR LINE SHALL BE 12" UNLESS NOTED OTHERWISE. WHERE DOWNSPOUT COLLECTORS ARE LOCATED IN PAVED AREAS, PROVIDE A 24"X24" BLOCKOUT AROUND PIPE. REFER TO DETAILS.
7. ALL BENDS IN THE LINES SHALL BE MADE WITH EITHER "WYES" OR DOUBLE 45° BENDS, NO 90° BENDS SHALL BE USED.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SITE DRAINAGE PLAN

SHEET NUMBER
C5.00

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PLOT STYLE: AURIC2.CTB
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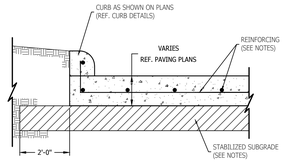
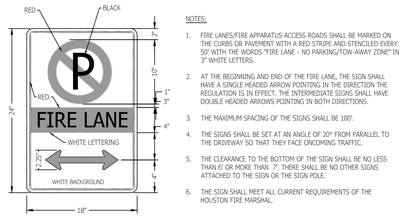


NOTES:

1. AREAS TO RECEIVE PAVING SHALL BE STRIPPED OF THE ORGANIC TOPSOIL TO A DEPTH OF AT LEAST 6-INCHES AND TO A DEPTH AS NECESSARY TO OBTAIN THE DESIRED FINISH GRADE. AFTER REMOVAL OF THE TOPSOIL THE EXPOSED SUBGRADE SHALL BE PROOFROLLED WITH A 15-TON ROLLER TO DETECT ANY WET, SOFT, OR UNSTABLE SOILS. WET, SOFT OR UNSTABLE SOILS SHALL BE TREATED WITH SUITABLE DRYING OR STABILIZING AGENTS OR REMOVED AND REPLACE WITH PROPERLY COMPACTED FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
2. IF IT IS NECESSARY TO PLACE FILL IN ORDER TO BRING THE PAVEMENT SUBGRADE TO THE REQUIRED ELEVATION, SUITABLE EARTH FILL OR SELECT FILL SHALL BE UTILIZED. SUITABLE EARTH FILL AND SELECT FILL SHALL BE FREE OF ORGANICS, DELETERIOUS SUBSTANCES AND BE A CLAYEY SAND OR INACTIVE LEAN CLAY WITH A MAXIMUM LIQUID LIMIT OF 35 AND PLASTICITY INDEX RANGE OF 8 TO 20. FILL MATERIAL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-3% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. REFERENCE PAVING PLANS FOR SUBGRADE STABILIZATION REQUIREMENTS.
4. CONCRETE PAVEMENT SHALL OBTAIN A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3,500 PSI. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. REINFORCING SHALL CONSIST OF THE THE FOLLOWING
   - 5-INCH THICK PAVING - #3 BARS AT 18" O.C.E.W.
   - 6-INCH THICK PAVING - #3 BARS AT 12" O.C.E.W. OR #4 BARS AT 24" O.C.E.W.
   - 7-INCH AND 8-INCH THICK PAVING - #4 BARS AT 18" O.C.E.W.
   - 10-INCH AND 12-INCH THICK PAVING - #5 BARS AT 18" O.C.E.W.

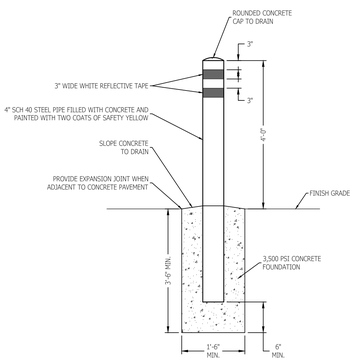
10 CONCRETE PAVEMENT SECTION N.T.S.



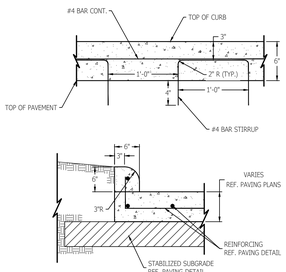
NOTES:

1. FIRE LANES/FIRE APPARATUS ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE AND STENCILED EVERY 50' WITH THE WORDS "FIRE LANE - NO PARKING/TOW-AWAY ZONE" IN 3" WHITE LETTERS.
2. AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
3. THE MAXIMUM SPACING OF THE SIGNS SHALL BE 100'.
4. THE SIGNS SHALL BE SET AT AN ANGLE OF 20º FROM PARALLEL TO THE DRIVEWAY SO THAT THEY FACE ONCOMING TRAFFIC.
5. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE NO LESS THAN 6' OR MORE THAN 7'. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR THE SIGN POLE.
6. THE SIGN SHALL MEET ALL CURRENT REQUIREMENTS OF THE HOUSTON FIRE MARSHAL.

11 FIRE LANE MARKINGS (CITY OF HOUSTON) N.T.S.



12 PIPE BOLLARD N.T.S.



NOTES:

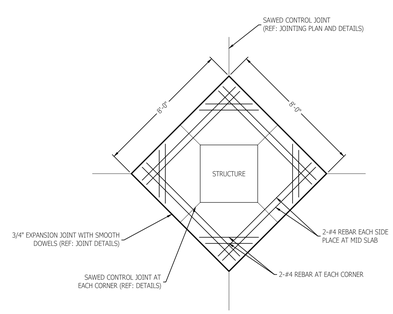
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE ½" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF EXPANSION JOINTS IN PAVEMENT, AT END OF RADIUS RETURNS AT STREET INTERSECTIONS AND DRIVEWAYS, AND AT CURB INLETS. MAXIMUM SPACING SHALL BE 60' CENTERS.
5. PLACE ½" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

7 CONCRETE CURB N.T.S.

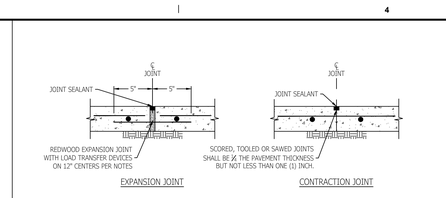
NOTES:

1. AN EFFORT SHALL BE MADE TO UTILIZE JOINTS TO DELINEATE DRIVING LANES AND PARKING STALLS.
2. UTILIZE EXPANSION JOINTS TO SEPARATE CONCRETE POURS.
3. AVOID PLACING EXPANSION JOINTS WHERE RUNOFF WILL FLOW ALONG THE JOINT.
4. ALL JOINTS SHALL INTERSECT CURBS, INLETS AND OTHER STRUCTURES AT RIGHT ANGLES.
5. EVENLY SPACE SAWED JOINTS. THE MAXIMUM SPACING SHALL BE 12-FT FOR PAVEMENT LESS THAN OR EQUAL TO 6" AND 15-FT FOR PAVEMENT GREATER THAN 6" THICK.
6. JOINT PATTERN SHOULD DIVIDE THE PAVEMENT IN APPROXIMATELY SQUARE PANELS. THE LENGTH OF A PANEL SHOULD NOT BE MORE THAN 25% GREATER THAN ITS WIDTH. AVOID CREATING IRREGULAR SHAPED OR SMALL PANELS.

8 TYPICAL JOINT LAYOUT N.T.S.



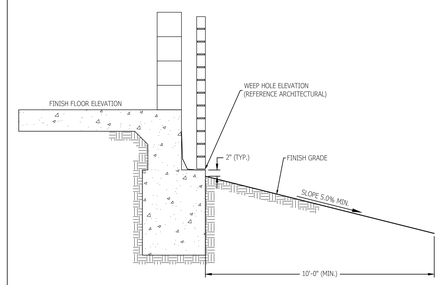
9 ISOLATION JOINT AT SQUARE STRUCTURE N.T.S.



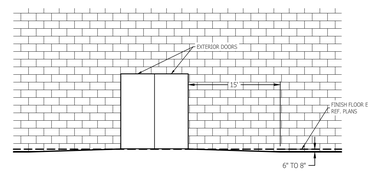
NOTES:

1. SLOPE TRANSVERSE SURFACE 2% (1:50) IN DIRECTION OF GENERAL SITE AREA DRAINAGE.
2. RUNNING SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5% (1:20).
3. FLOAT EDGES 1/4" MAXIMUM AT CONTROL JOINTS.
4. USE REDWOOD BOARD EXPANSION JOINT w/ #4 SMOOTH BAR w/ LOAD KEY (10" LONG).
5. REDWOOD BOARD EXPANSION JOINTS ON 15 FOOT CENTERS MAXIMUM.
6. CONTROL JOINT SPACING NOT TO EXCEED FIVE (5) FEET. SCORED, TOOLED OR SAWN JOINTS SHALL BE 1/4 THE PAVEMENT THICKNESS BUT NOT LESS THAN ONE (1) INCH.
7. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.

4 CONCRETE SIDEWALK N.T.S.



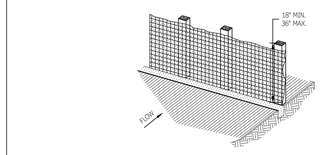
5 TYPICAL GRADING AT BUILDING N.T.S.

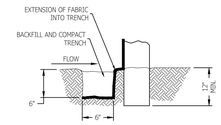


NOTES:

1. WHERE EXTERIOR PAVING ABUTS BUILDING, PAVING ELEVATION SHALL MATCH FINISH FLOOR ELEVATION AT ALL DOORS.
2. PAVING SHALL HAVE A LEVEL LANDING AS CONFORMING TO ADA REQUIREMENTS AT ALL DOORS.
3. PAVING SHALL SLOPE TO BE BELOW WEEP HOLE ELEVATION (6" TO 8" BELOW FINISH FLOOR ELEVATION) 15-FT AWAY FROM DOORS.

6 TYPICAL PAVING AT DOORS N.T.S.

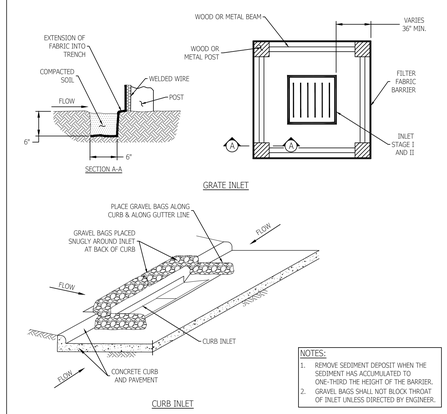




NOTES:

1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 6 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

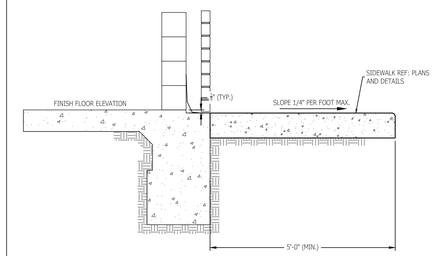
1 REINFORCED FILTER FABRIC FENCE N.T.S.



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.

2 INLET PROTECTION BARRIER N.T.S.



NOTES:

1. REFERENCE STRUCTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHERE SIDEWALK IS ADJACENT TO THE BUILDING.

3 TYPICAL GRADING AT BUILDING N.T.S.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

CIVIL DETAILS (1 OF 2)

SHEET NUMBER

C7.00

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PLOT STYLE: AURCC2.0.STB

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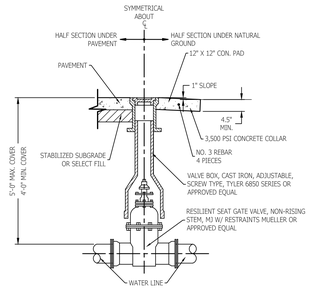
Xref ..\..\..\..\..\0102.0105-FBISD Bond PKG 26\Project Files\01-Civil\06-Drawings\02-Reference\SEAL\KIRKSEY\.dwg

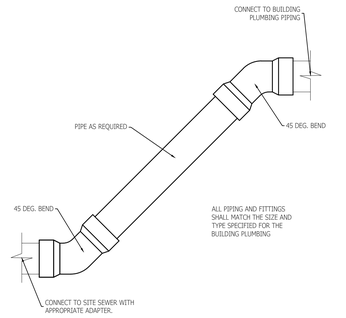
10 GATE VALVE — N.T.S.



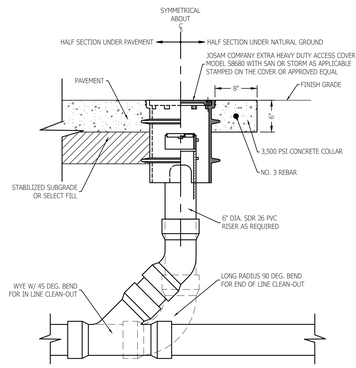
NOTES:

1. PROVIDE OPERATING NUT EXTENSION, AS NEEDED, TO APPROXIMATELY THREE (3) FEET BELOW FINISHED GRADE.
2. VALVE BOX SHALL NOT TRANSMIT ANY LOAD DIRECTLY TO THE VALVE OR PIPE.
3. GATE VALVES SHALL BE COUNTER-CLOCKWISE OPEN.
4. SECURE TRACER WIRE INSIDE OF VALVE BOX.

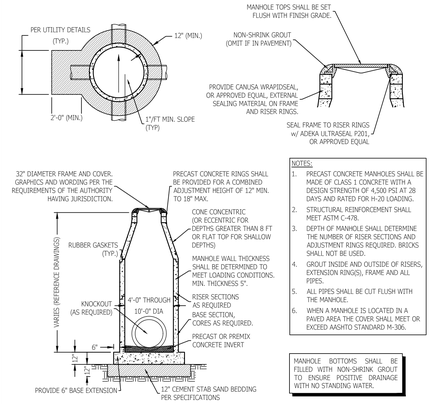
7 SANITARY SEWER SERVICE DROP — N.T.S.



4 STORM SEWER CLEANOUT — N.T.S.



1 STORM SEWER MANHOLE — N.T.S.

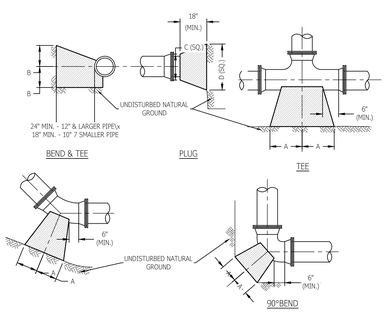


NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF RISERS, EXTENSION RING(S), FRAME AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE MANHOLE.
6. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.

MANHOLE BOTTOMS SHALL BE FILLED WITH NON-SHRINK GROUT TO ENSURE POSITIVE DRAINAGE WITH NO STANDING WATER.

11 THRUST BLOCKING — N.T.S.

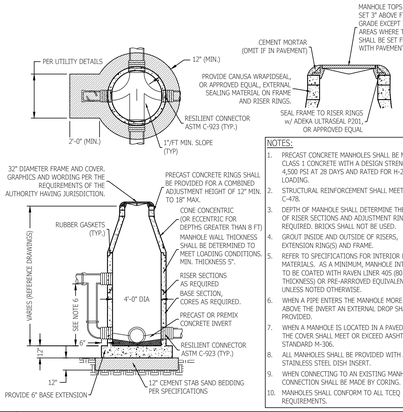


90° BEND		45° BEND		22½° BEND		TEES			PLUGS
A	B	A	B	A	B	A	B	C	D
12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTES:

1. THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 1.0 SF AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT NOT LESS THAN 1.0 FT.
2. THRUST BLOCKS SHALL BE PACKED AT ALL FITTINGS.
3. ALL FITTINGS SHALL BE M.J. RESTRAINED JOINT (EBAA IRON, SERIES 2000PV, OR APPROVED EQUAL).

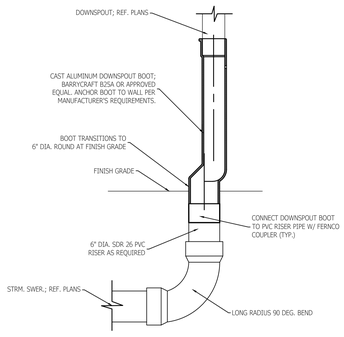
8 SANITARY SEWER MANHOLE — N.T.S.



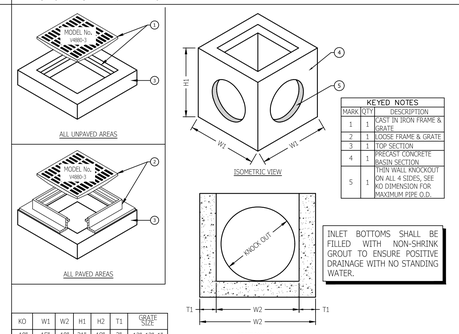
NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF RISERS, EXTENSION RING(S) AND FRAME.
5. REFER TO SPECIFICATIONS FOR INTERIOR LINER MATERIALS. AS A MINIMUM, MANHOLE INTERIOR TO BE COATED WITH RAVEN LINER 405 (80 MIL THICKNESS) OR PRE-APPROVED EQUIVALENT, UNLESS NOTED OTHERWISE.
6. WHEN A PIPE ENTERS THE MANHOLE MORE THAN 24" ABOVE THE INVERT AN EXTERNAL DROP SHALL BE PROVIDED.
7. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.
8. ALL MANHOLES SHALL BE PROVIDED WITH A STAINLESS STEEL DISH INSERT.
9. WHEN CONNECTING TO AN EXISTING MANHOLE THE CONNECTION SHALL BE MADE BY CORING.
10. MANHOLES SHALL CONFORM TO ALL TCEQ REQUIREMENTS.

5 DOWNSPOUT CONNECTION TO STORM SEWER — N.T.S.



2 GRATE INLET — N.T.S.



KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	CAST IN IRON FRAME & GRATE
2	1	LOOSE FRAME & GRATE
3	1	TOP SECTION
4	1	PRECAST CONCRETE BASIN SECTION
5	1	THIN WALL KNOCKOUT ON ALL 4 SIDES, SEE NO DIMENSION FOR MAXIMUM PIPE O.D.

INLET BOTTOMS SHALL BE FILLED WITH NON-SHRINK GROUT TO ENSURE POSITIVE DRAINAGE WITH NO STANDING WATER.

KO	W1	W2	H1	H2	T1	GRATE SIZE
10"	15"	10"	21"	18"	3"	12"x12"x1"
12"	20"	12"	28"	24"	4"	14"x14"x1¼"
15"	24"	16"	34"	30"	4"	18"x18"x1¼"
17"	28"	18"	34"	30"	4"	20"x20"x1¼"
22"	33"	22"	41"	36"	5"	24"x24"x2"
24"	37"	25"	42"	36"	6"	27"x27"x2"
30"	47"	30"	47"	36"	6"	32"x32"x2"
32"	60"	30"	62"	38"	6"	38"x38"x2"
60"	48"	48"	62"	38"	6"	38"x38"x2"
60"	72"	60"	66"	60"	6"	38"x38"x2"
72"	84"	72"	78"	72"	6"	38"x38"x2"
72"	96"	84"	78"	72"	6"	38"x38"x2"

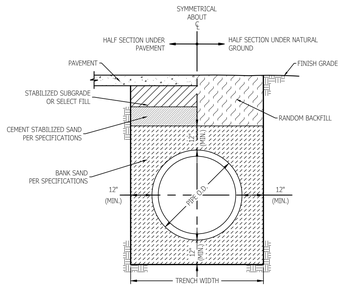
SPECIFICATIONS

CONCRETE: CLASS 1/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

REINFORCEMENT: GRADE(#2) 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.

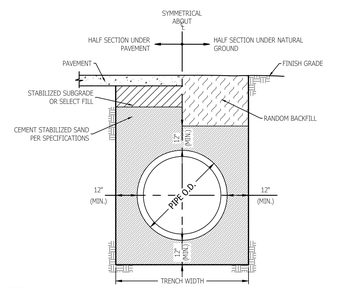
9 WATER LINE BEDDING AND BACKFILL (DRY TRENCH) — N.T.S.



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED AT A MOISTURE CONTENT WITHIN +/-3% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY UNDER PAVEMENT/WALKS AND 92% OF THE MAXIMUM DRY DENSITY IN ALL OTHER AREAS.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.

6 SANITARY SEWER BEDDING AND BACKFILL (DRY TRENCH) — N.T.S.



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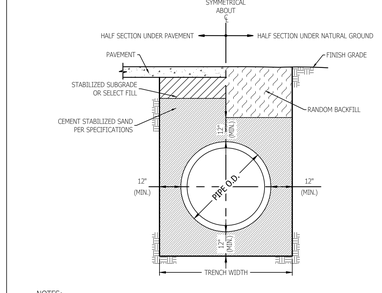
3 STORM SEWER BEDDING AND BACKFILL (DRY TRENCH) — N.T.S.



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3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

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FORT BEND BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

CIVIL DETAILS (2 OF 2)

SHEET NUMBER

C7.01

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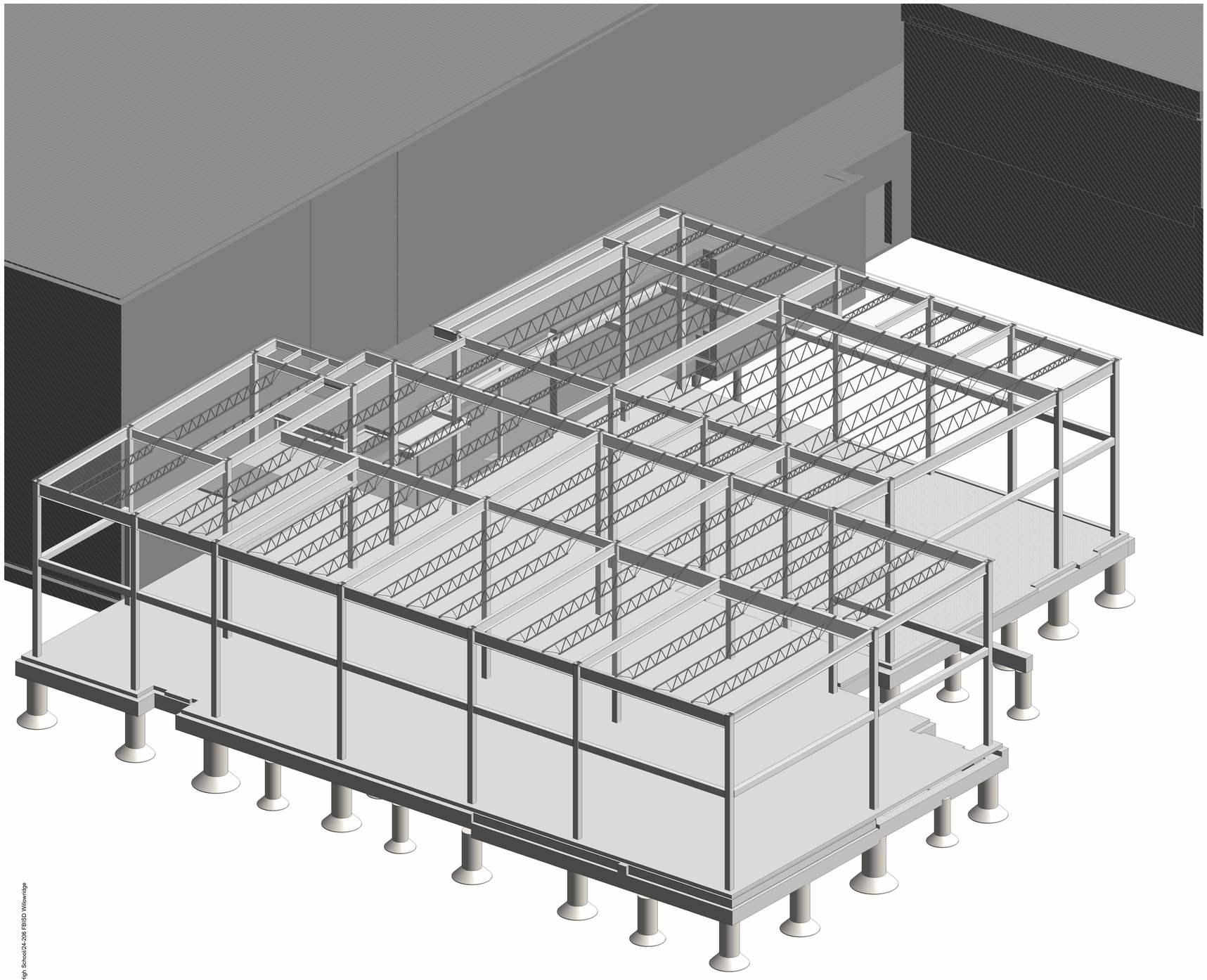

1 3D - PRESENTATION VIEW

SHEET LIST (WITH REVISIONS)			
SHEET NUMBER	SHEET NAME	REVISION	DATE
S0.01	3D VIEW AND SHEET LIST	E	09/16/2025
S1.01	GENERAL STRUCTURAL CRITERIA	E	09/16/2025
S1.02	GENERAL STRUCTURAL CRITERIA	E	09/16/2025
S2.01	FOUNDATION PLAN - OVERALL	E	09/16/2025
S2.01A	ENLARGED FOUNDATION DEMO PLAN - AREA B3	E	09/16/2025
S2.01B	FOUNDATION PLAN - AREA B3	E	09/16/2025
S2.02	MEZZANINE FRAMING PLAN - OVERALL	E	09/16/2025
S2.02A	ENLARGED LOW ROOF DEMO PLAN - AREA B3	E	09/16/2025
S2.02B	MEZZANINE FRAMING PLAN - AREA B3	E	09/16/2025
S2.03	ROOF FRAMING PLAN - OVERALL	E	09/16/2025
S2.03A	ROOF FRAMING PLAN - AREA B3	E	09/16/2025
S3.01	FOUNDATION, COLUMN AND BASEPLATE SCHEDULES	E	09/16/2025
S4.01	TYPICAL SLAB ON GRADE DETAILS	E	09/16/2025
S4.02	TYPICAL GB AND CF DETAILS	E	09/16/2025
S4.03	FOUNDATION DETAILS	E	09/16/2025
S4.04	FOUNDATION DETAILS	E	09/16/2025
S4.05	SITE DETAILS	E	09/16/2025
S5.01	TYPICAL STEEL DETAILS	E	09/16/2025
S5.02	TYPICAL CMU WALL DETAILS	E	09/16/2025
S6.01	TYPICAL COMPOSITE DECK DETAILS	E	09/16/2025
S6.02	TYPICAL COMPOSITE DECK DETAILS	E	09/16/2025
S7.01	TYPICAL STEEL ROOF DETAILS	E	09/16/2025
S7.02	STEEL ROOF DETAILS (PARAPET)	E	09/16/2025

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D + A PROJECT 24-206-00

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713 850 9600
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FRED DALLY 90904 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

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Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
3D VIEW AND SHEET LIST

SHEET NUMBER
S0.01

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STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICALS	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE	LW	LONG WAY
ADDL	ADDITIONAL	MATL	MATERIAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX	MAXIMUM
		MC	MOMENT CONNECTION, MISCELLANEOUS CHANNEL
AISI	AMERICAN IRON AND STEEL INSTITUTE	MECH	MECHANICAL
ANSI	AMERICAN NOTIONAL STANDARD INSTITUTE	MANUF	MANUFACTURER(S)
		MID	MIDDLE
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MO	MASONRY OPENING
		NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NOM	NOMINAL
		NTS	NOT TO SCALE
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
BC	BOTTOM CHORD	OD	OUTSIDE DIAMETER
BOD	BOTTOM OF DECK	OPNG	OPENING
BOT	BOTTOM	OPP	OPPOSITE
BP	BASE PLATE	PL	PLATE
BRG	BEARING	PLF	POUNDS PER LINEAR FOOT
C	CHANNEL, COMPRESSION, CAMBER	PROJ	PROJECTION
CIP	CAST IN PLACE	PSI	POUNDS PER SQUARE INCH
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR	R	RADIUS
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	RE	REFER, REFERENCE
CONT	CONTINUOUS	REINF	REINFORCEMENT (D), (ING), (MENT)
CSJ	CONSTRUCTION JOINT	REQD	REQUIRED
CTJ	CONTROL JOINT	REV	REVISION
DET	DETAIL	RO	ROUGH OPENING
DIA	DIAMETER	SCHED	SCHEDULE(D)
DIAG	DIAGONAL	SDI	STEEL DECK INSTITUTE
DP	DOUBLE PITCHED	SECT	SECTION
DWG	DRAWING	SF	SQUARE FEET
DWL	DOWEL	SIM	SIMILAR
EA	EACH	SJI	STEEL JOIST INSTITUTE
EF	EACH FACE	SPEC	SPECIFICATION(S)
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STIF	STIFFINER
ELEV	ELEVATOR	STL	STEEL
EOD	EDGE OF DECK	STR	STRUCTURAL
EOS	EDGE OF SLAB	T	TOP, TENSION
EQ	EQUAL(LY)	T&B	TOP AND BOTTOM
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXP	EXPANSION	TEMP	TEMPERATURE
FD	FLOOR DRAIN	THK	THICK(NESS)
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FND	FOUNDATION	TOF	TOP OF FOOTING
FS	FAR SIDE	TOJ	TOP OF JOIST
FT	FEET, FOOT	TOL	TOP OF LEDGE
FTG	FOOTING	TOP	TOP OF PANEL
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GB	GRADE BEAM	TRD(S)	TREAD(S)
HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION	UL	UNDERWRITERS LABORATORY
ID	INSIDE DIAMETER	UNF	UNIFORM
IN	INCHES	UON	UNLESS OTHERWISE NOTED
JST	JOIST	V	BEAM AND SHEAR
JT	JOINT	VB	VERTICAL BRACE
K	KIPS, JOIST SERIES	VERT	VERTICAL
KB	KNEE BRACE	W	WALL, EST, WIDTH, WIDE FLANGE
L	SPAN, LEFT, STEEL ANGLE	W/	WITH
Ld	DEVELOPMENT LENGTH	WL	WIND LOAD, WATER LEVEL, WORKING LINE
LL	LIVE LOAD		
LLBB	LONG LEG BACK TO BACK	WP	WATER PROOF, WORKING POINT

STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL MARK	S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB W/ MAIN REINFORCING MARK S1
F1	SPREAD FOOTING MARK	DECK TYPE 1	SPAN OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK
P1	PLINTH MARK	DECK TYPE 2	SPAN DIRECTION OF BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING
C1	COLUMN MARK	20KSP	SPECIAL OPEN WEB K SERIES STEEL JOIST, SEE PLAN NOTES FOR LOAD REQUIREMENTS
CF1	CONTINUOUS FOOTING MARK	W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" ABOVE DATUM
RW1	RETAINING WALL MARK	W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH A 1" UPWARD CAMBER
BP1	BASE PLATE MARK	W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 W/ 10 HSA (EQUALLY SPACED)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE MARK	W27X84 (10, 6, 12) WBEAM WBEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HSA EQUALLY SPACED FROM BOTTOM TO TOP AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS
24/24	STRAIGHT SHAFT PIER (SHAFT Ø)		
24/48	DRILLED PIER (SHAFT AND BELL Ø)	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHOPE BEAM
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK		
J1	MILD REINFORCED CONCRETE JOIST MARK	6"	SLAB DEPRESSION AND AMOUNT

STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:
1. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:
1. INTERNATIONAL BUILDING CODE, 2021 EDITION.
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16 , AS AMENDED.
3. AMERICAN CONCRETE INSTITUTE (ACE), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 15TH EDITION (ASD), 2017, AS AMENDED.
5. AMERICAN WELDING SOCIETY (AWS).
6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS.
7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLUALR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.
8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:
1. SUPER-IMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF)

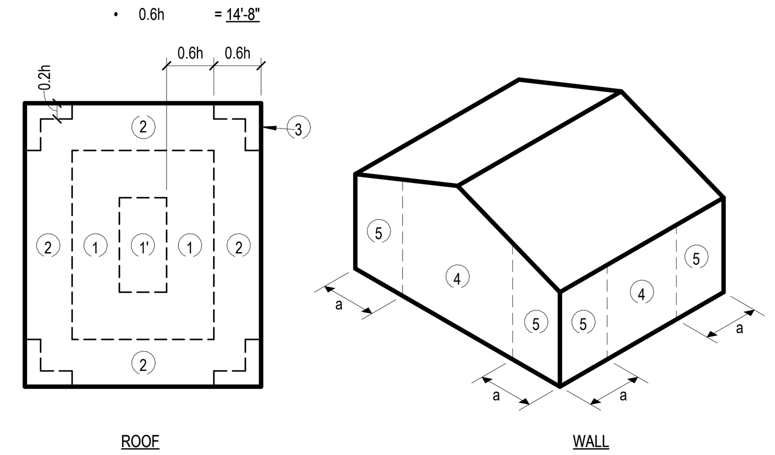
BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
SLAB ON GRADE	0	100
STAIRS	10	100
ROOF	20	20
MECHANICAL AREAS	10	150 (**)

* INCLUDES ALL ALLOWANCES OF 15 PSF FOR PARTITION WEIGHT
** EQUIPMENT WEIGHT IF LARGER

D. LATERAL DESIGN LOADS (CLOSED STRUCTURE):
1. WIND LOADS FOR AN BASIC DESIGN WIND SPEED OF 147 MPH (ASD WIND SPEED OF 113.9 MPH), 3-SECOND GUST, WITH EXPOSURE C AND A RISK CATEGORY III.
2. COMPONENTS AND CLADDING PRESSURES (PSF) FOR "CLOSED" BUILDINGS:

		ZONE 1		ZONE 1'		ZONE 2		ZONE 3	
ROOF	10 FT²	21.1	-83.0	21.2	-47.7	21.2	-109.5	21.2	-149.2
	100 FT²	16.8	-64.8	16.8	-47.7	16.8	-86.1	16.8	-102.5
		ZONE 4		ZONE 5					
WALLS	10 FT²	47.7	-51.7	47.7	-63.6				
	100 FT²	40.7	-44.6	40.7	-49.5				
		ZONE 4		ZONE 5					
PARAPETS	10 FT²	143.1	-84.5	183.3	-96.6				
	100 FT²	112.3	-70.3	128.8	-75.2				

a. RE: IBC FOR DESCRIPTION OF CORNER, PERIMETER AND FIELD.
b. POSITIVE PRESSURES ARE PRESSURES ACTING TOWARDS THE BUILDING.
c. NEGATIVE PRESSURES ARE PRESSURES ACTING AWAY FROM THE BUILDING.
d. VALUES ABOVE ARE FOR BASIC DESIGN WIND PRESSURES THE ASD FACTOR 0.6..
e. ZONE WIDTH DIMENSIONS:
- a (WALLS) = 9'-9"
- 0.2h = 4'-10"
- 0.6h = 14'-8"



E. SEISMIC CRITERIA:

1. IMPORTANCE FACTOR:	1.25
2. RISK CATEGORY:	III
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss: 0.066, S1: 0.038
4. SITE CLASS:	D (ASSUMED)
5. SPECTRAL RESPONSE COEFFICIENTS:	SDs: 0.07, SD1: 0.06
6. SEISMIC DESIGN CATEGORY:	A

F. SPECIAL LOADS:
1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
TREADS	300 POUNDS AT CENTER
TOP RAILS	50 PLF HORIZONTALLY (DISTRIBUTED)
OTHER RAILS, FILLERS & CONNECTIONS	50 PLF HORIZONTALLY (DISTRIBUTED)
HAND RAILS	200 POUNDS ANY DIRECTION

2. PIPE LOADS WITH WATER

SIZE	WEIGHT MAX	SPACING OF HANGERS
4" Ø	17 PLF	10'-0"
6" Ø	32 PLF	10'-0"
8" Ø	50 PLF	10'-0"
10" Ø	75 PLF	5'-0"
12" Ø	102 PLF	5'-0"
VALUES ASSUME SCHEDULE 40 STEEL PIPE		

G. ROOF RAIN LOAD DATA:
1. RAIN INTENSITY, i = 5.39 IN/HR

H. GROUND SNOW LOADS:
1. GROUND SNOW: 0 PSF
2. FLAT-ROOF SNOW LOAD: 0 PSF

GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.
D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.
E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.
F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.
G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.
H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.
I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.
K. SHOP DRAWINGS:
1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.
2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.
3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.
4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.
5. STRUCTURAL SUBMITTALS REQUIRED FOR APPROVAL INCLUDE, BUT ARE NOT LIMITED TO:
   - CONCRETE ACCESSORIES (MANUFACTURERS PRODUCT DATA)
   - STEEL REINFORCING
   - CONCRETE MIX DESIGN
   - CONTROL JOINT LAYOUT
   - CONCRETE MATERIAL CERTIFICATES
   - STRUCTURAL STEEL FRAMING
   - STRUCTURAL STEEL CONNECTION CALCULATIONS
   - STEEL ROOF DECK
   - COLD FORMED METAL FRAMING
   - COLD FORMED METAL FRAMING CALCULATIONS
   - MISC. STEEL FABRICATIONS
6. DELEGATED STRUCTURAL DESIGN OF COMPONENTS:
   - SEE APPLICABLE SECTIONS OF GENERAL NOTES FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.

L. THESE NOTES APPLY TO STRUCTURAL DOCUMENTS SEALED BY THE STRUCTURAL ENGINEER AND ARE INTENDED TO BE COMPLEMENTARY TO AND USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, INCLUDING THOSE PREPARED BY OTHER DISCIPLINES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/STRUCTURAL ENGINEER IMMEDIATELY. ANY SUCH DISCREPANCIES SHALL BE RESOLVED TO THE MORE STRINGENT REQUIREMENTS, UNLESS OTHERWISE AUTHORIZED BY THE STRUCTURAL ENGINEER.
M. ANY DISCREPANCIES ON THE STRUCTURAL DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF BIDS OR PROPOSALS, OR IF NOT REASONABLE DISCERNABLE DURING PREPARATION OF BIDS AND PROPOSALS, BEFORE COMMENCING THE WORK IN QUESTIONS. NO FIELD CHANGES OR DIVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER. NO CHANGE ORDER CONSIDERATION WILL BE GIVEN TO CHANGES FOR WHICH THE ARCHITECT AND/OR ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
N. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONSTRUCTION, INCLUDING EXISTING WORK, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORT IMMEDIATELY TO THE ARCHITECT/STRUCTURAL ENGINEER.
O. GENERAL FRAMING NOTES:
1. FOR ALL MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME THE FOLLOWING AS A MINIMUM AND CONFIRM FINAL ASSUMPTIONS WITH STRUCTURAL ENGINEER:
   - EQUAL LEG ANGLES = L4X4X5/16
   - LLV ANGLES = L6X4X5/16
   - CHANNELS = C8X11.5
   - HSS TUBES =HSS6X6X3/8
   - LSV TUBE = HSS12X8X1/2
   - ROUND TUBE = 6" STD PIPE
   - WIDE FLANGE = W14X22
   - STEEL PLATE = 3/8" THICK
2. FOR ALL MECHANICAL OPENINGS SHOWN ON ARCHITECTURAL OR MEP DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE W14X22 PERIMETER BEAMS AS REQUIRED TO FRAME REQUIRED OPENING WHERE OPENING DIMENSIONS EXCEED 5'-0" IN ANY DIRECTION.
3. FOR ALL WINDOWS, STOREFRONTS AND CURTAINWALLS EXCEEDING 10'-0" IN LENGTH WHERE HANGING STEEL TO SUPPORT THE HEADER IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE C6X8.2 VERTICAL HANGERS WITH L4X4X1/4 KICKERS AT 4'-0" OC AND CONTINUOUS L6X4X5/16 ANGLE ALONG THE BOTTOM. PROVIDE CONTINUOUS HSS6X2X1/4 (LSH) IN LIEU OF L6X4 BOTTOM ANGLE AND GALVANIZE 3/8" BENT LEDGER PLATE WHERE MASONRY WILL BE SUPPORTED.
4. FOR ALL FOLDING PARTITIONS WHERE HANGING STEEL TO SUPPORT HEADER TRACK IS NOT SHOWN ON STRUCTURAL DRAWINGS PROVIDE C6x8.2 VERTICAL HANGERS WITH L4x4x1/4 KICKERS AT 4'-0" AND CONTINUOUS WT6X20 ALONG THE BOTTOM. HANGERS SHALL BE SPACED AT 2'-0" ON CENTER AT STACKED ENDS OF PARTITION.
5. FOR ALL COILING OVERHEAD DOORS AND ROLLING GRILLS EXCEEDING 10'-0" IN WIDTH WHERE TUBE STEEL TO SUPPORT THE DOOR/HOUSING IS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE HSS12X8X3/8 (LSV) INTERMEDIATE STEEL TUBE.
6. ALL STAIR MEMBERS INCLUDING, BUT NOT LIMITED TO, STRINGERS, LANDINGS AND HANDRAILS SHALL BE DESIGNED BY THE STAIR ENGINEER AND STEEL FABRICATOR.

P. GENERAL FOUNDATION NOTES:
1. FOR ALL SLAB ON GRADE SHOWN ON ARCHITECTURAL AND NOT SHOWN ON STRUCTURAL DRAWINGS, ASSUME 5" THICK CONCRETE SLAB WITH #4 REINFORCING BARS AT 14" OC IN EACH DIRECTION.
2. MECHANICAL EQUIPMENT AND LOCKERS SHALL RECEIVE A HOUSEKEEPING PAD AS INDICATED IN MEP OR ARCHITECTURAL DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
3. THE MAXIMUM GRADE BEAM SPAN IS 20'-0". PROVIDE ADDITIONAL 24/48 PIER AT MID SPAN WHERE PIERS ARE NOT SHOWN ON PLAN AND ALLOWABLE SPAN IS EXCEEDED.
4. ASSUME GRADE BEAM TYPE "GB1" FOR ALL LOCATIONS WHERE CMU WALLS EXCEED 16'-0" IN HEIGHT ARE SHOWN ON PLANS. SUPPLY 24/48 PIER AT 20'-0" OC MAXIMUM UNDER GRADE BEAM.
5. FOR ALL DUMPSTER ENCLOSURES, SCREEN WALLS, AND OTHER MASONRY FENCES NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 8'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS 'TYPE GB1' GRADE BEAM ON 24/48 DRILLED PIERS SPACED AT 15'-0" MAXIMUM. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #6 VERTICAL BARS SPACED AT 24" ON CENTER IN FULLY GROUTED CELLS.
6. FOR ALL SPORTS FIELDS WHERE THE BACKSTOP WALL IS NOT SHOWN ON STRUCTURAL DRAWINGS ASSUME 4'-0" TALL MASONRY WALL WITH VENEER ON ONE SIDE SUPPORTED BY CONTINUOUS CONCRETE FOOTING. FOOTING SHALL BE 1'-0" THICK x 3'-0" WIDE BEARING 3'-0" BELOW FINISHED GRADE. STRUCTURAL MASONRY WALL SHALL BE 8" CMU WITH #5 VERTICAL BARS SPACED AT 32" ON CENTER SUPPORTED BY CONCRETE STEM WALL EXTENDING FROM CONTINUOUS FOOTING. REINFORCE FOOTING WITH LONGITUDINAL (4) # 4 BARS AND TRANSVERSE #4 BARS AT 12" ON CENTER. AT STEM WALL PROVIDE #4 DOWELS AT 12" ON CENTER AND (3) #4 CONTINUOUS BARS AT EACH FACE.

CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH (PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SUMP (IN)	W/C RATIO
	3000	3500	4000			
DRILLED PIERS	●			1 1/2"	5-7	0.55
SLAB ON GRADE		●		1"	4-6	0.50
GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.
C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI
D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.
E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
   a. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.
F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.
G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE H. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.
H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.
   1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.
   2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL".

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000 / 3500	4000	5000	6000	3000 / 3500	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

J. AT LAP SPLICES, PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld SHOWN IN THE TABLE IN NOTE H ABOVE.
K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.
L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.
   1. UNIFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES
   2. UNIFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES
   3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      - #6 AND LARGER: 2 INCHES
      - #5 AND SMALLER: 1 1/2 INCHES
   4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER
      - SLABS AND WALLS: 3/4 INCH
      - BEAMS AND COLUMNS: 1 1/2 INCHES

STRUCTURAL STEEL

A. ROLLED SHAPES:
1. ALL STRUCTURAL STEEL FOR ALL THE HORIZONTAL FRAMING MEMBER SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS OTHERWISE NOTED.
2. ALL STRUCTURAL STEEL FOR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B WITH A MINIMUM YIELD OF 46 KSI, UNLESS OTHERWISE NOTED.
3. ALL STRUCTURAL STEEL FOR PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, UNLESS OTHERWISE NOTED.
4. ALL STRUCTURAL STEEL FOR ANGLES, PLATES AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
5. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.

B. CONNECTIONS:
1. THE DESIGN OF STRUCTURAL STEEL CONNECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE STEEL FABRICATOR. THE DETAILS AND CALCULATIONS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
   - ALL WELD SIZES AND LENGTHS
   - ALL BOLT SIZES, LOCATIONS, QUANTITIES AND GRADES
   - ALL PLATE AND ANGLE SIZES, THICKNESS AND DIMENSIONS
   - ALL WORK POINT LOCATIONS AND RELATED INFORMATION.
2. PROVIDE STANDARD BOLTED CONNECTIONS CONFORMING TO AISC BOLTED CONNECTIONS, USING ASTM A325 OR A490 BOLTS, FOR THE BEAM END SHEARS INDICATED IN THE DOCUMENTS. PROVIDE MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS.
3. ALL WELDED CONNECTIONS SHALL CONFORM TO AWS UNLESS OTHERWISE NOTED.
4. SURVEY ALL PLANS, DETAILS, SECTIONS, SCHEDULES AND SPECIFICATIONS FOR SPECIAL CONNECTIONS.
5. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR THE APPLICABLE MEMBER SIZE AND SPAN AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAM IN THE 15TH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION (ASD)
6. WHERE BEAMS ARE TO RECEIVE HEADED SHEAR CONNECTORS, DESIGN THOSE BEAM CONNECTIONS FOR THE REACTION SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN THE CONNECTIONS TO SUPPORT 40 PERCENT OF THE MAXIMUM WEB SHEAR, V, FOR THE APPLICABLE MEMBER SIZE AS DETERMINED BY THE TABLES FOR ALLOWABLE UNIFORM LOADS ON BEAMS IN THE 15TH EDITION OF THE AISC MANUAL.
7. MOMENT CONNECTIONS SHOWN SHALL BE DESIGNED TO FULLY DEVELOP THE SECTION IN FLEXURE AND TO SUPPORT 1/2 THE TOTAL UNIFORM LOAD FOR SHEAR AS DESCRIBED IN NOTE 5 ABOVE.
8. WHERE FILLET WELD IS NOT SHOWN ON DETAIL, ITS SIZE SHALL BE ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16"

C. WELDS:
1. CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
2. WELDS ON INDICATED ON DRAWINGS ARE TO BE FILLET ALL AROUND AS PRESCRIBED BY AISC SPECIFICATION, PROVIDE WELDING OF CONTINUOUS MEMBERS OF 2 INCHES OF 3/16" INCH FILLET STITCH WELDS AT 12 INCHES OC, STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED.
3. FIELD PAINT ALL WELDS W/ "GALVILITE" BY Z.R.C. OR APPROVED EQUAL ARC WELDING ELECTRODES.
4. METAL DECK - E60XX
5. STRUCTURAL STUDS - E6022 OR E6011, 3/32" RODS.
6. ALL OTHER - E70XX LOW HYDROGEN, 250 DEGREE MIN. OVEN TEMP.
7. SIZE - ALL FILLETS ARE 1/16" LESS THAN MINIMUM THICKNESS TO BE WELDED.
8. PROVIDE ULTRASONIC INSPECTION BY THE TESTING LABORATORY FOR ALL WELDS INDICATED AS PENETRATION WELDS.

D. HEADED SHEAR CONNECTORS:
1. ALL HEADED SHEAR CONNECTORS SHALL BE 3/4 IN. DIAMETER STUDS x 4 1/2 IN. LONG AFTER WELDING AND SHALL CONFORM TO ASTM A108 UNLESS OTHERWISE NOTED.
2. PLACE MAXIMUM NUMBER OF STUDS IN A SINGLE ROW PATTERN AND THE BALANCE IN A DOUBLE ROW PATTERN AS NECESSARY TO SATISFY THE AISC SPACING REQUIREMENT.

E. OPEN WEB STEEL JOISTS:
1. AS APPLICABLE FOR THE OPEN WEB STEEL JOIST TYPE INDICATED ON THE DRAWINGS, CONFORMING TO SJI OR AISC, WHICHEVER IS MORE STRINGENT.
2. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI.
3. DESIGN ROOF JOISTS USING GOVERNING LOAD COMBINATIONS WITH UPLIFT PRESSURES INDICATED ON COMPONENT AND CLADDING PRESSURES TABLE.

F. STAIR NOTES:
1. ALL STEEL PAN STAIRS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED BY THE STRUCTURAL STEEL CONTRACTOR. THE STAIR MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THEIR PRODUCT, INCLUDING ALL ACCESSORIES AND CONNECTIONS. STAIRS SHALL BE DESIGNED FOR ALL LOADING CONDITIONS REQUIRED BY THE GOVERNING BUILDING CODES IN ADDITION TO ANY SPECIFIC LOADINGS SHOWN ON THE DRAWINGS. THE DESIGN, MANUFACTURE AND INSTALLATION OF ALL STEEL PAN STAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION.
2. STAIR DESIGN CALCULATIONS, PREPARED AND SEALED BY A LICENSED STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW ALONG WITH THE NECESSARY SHOP DRAWINGS. SUBMITTALS WILL BE REVIEWED FOR INFLUENCE AND/OR LOAD APPLICATION TO THE SUPPORTING STRUCTURE, ONLY.
3. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, IN ADDITION TO FIELD PAINT AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.

G. STEEL DECK:

TYPE 1:

1. PROVIDE COMPOSITE STEEL DECK 2" DEEP FORMED FROM 18 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 33, GALVANIZED WITH COATING DESIGNATION G60.
2. PROVIDE COMPOSITE STEEL DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
   A. MOMENT OF INERTIA: I=0.155 INCHES⁴ / FOOT WIDTH
   B. SECTION MODULUS: Sp=0.186 INCHES³ / FOOT WIDTH
   C. SECTION MODULUS: Sn=0.192 INCHES³ / FOOT WIDTH
3. ATTACH COMPOSITE STEEL DECK TO STEELS SUPPORTS WITH 5/8" DIA. PUDDLE WELDS AND SHEAR CONNECTORS, 36/4 PATTERN. REFER TO PLANS FOR NUMBERS AND ARRANGEMENT OF SHEAR CONNECTORS. ATTACH SIDE LAPS WITH #10 SCREWS @ 18" OC.
4. REINFORCE 3 1/2" CONCRETE OVER DECK W/ 4x4 - W4.0xW4.0.

TYPE 2

1. PROVIDE 1" VENTED METAL DECK, 20 GAUGE STEEL SHEETS AND CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS), GRADE 80, GALVANIZED COATING DESIGNATION G90. PROVIDE LIGHT WEIGHT CONCRETE TOPPING (48-60 PCF), FILLING FLUTES ONLY.REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION REQUIREMENTS.
2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
   A. MOMENT OF INERTIA: I =0.090 INCHES⁴ /FOOT WIDTH
   B. SECTION MODULUS: Sp =0.168 INCHES³ /FOOT WIDTH
   C. SECTION MODULUS: Sn =0.166 INCHES³ /FOOT WIDTH
3. ATTACH STEEL ROOF DECK TO STEEL SUPPORTS AND AT SIDE LAPS AS FOLLOWS:
   A. POWDER-ACTUATED FASTENERS:
      - SUPPORTS: "HILTI" X-HSN-24 AND "HILTI" X-ENP-19L15, 32/5 PATTERN
      - SIDELAPS: #12 "TEK" @ 8" O.C. MAXIMUM
   B. WELDS:
      - SUPPORTS: 5/8" PUDDLE WELD, 32/5 PATTERN
      - SIDELAPS: #14 TEK SCREWS @ 8" O.C. MAX

EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY AVILES ENGINEERING CORPORATION DATED JUNE 2025 REPORT NO. G153-24 (FINAL) IS AVAILABLE FOR REVIEW.
B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.
C. SUB-GRADE PREPARTION:
   a. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE GEOTECHNICAL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.
   b. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION, ROOTS AND DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, AND AS REQUIRED BY GEOTECHNICAL REPORT. THE CLEARING SHOULD EXTEND BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED. ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY GEOTECHNICAL REPORT.
   c. BUILDING PAD UNDER SLAB ON GRADE SHALL BE PREPARED TO PROVIDE AN OWNER APPROVED PVR OF 1" OR LESS BASED ON RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
D. FOUNDATIONS HAVE BEEN DESIGNED FOR ALLOWABLE PRESSURE OF 2,700 PSF (SUSTAINED LOADS) & 4,000 PSF (TOTAL LOADS).
E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

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09/16/2025

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	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2023 BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
GENERAL STRUCTURAL CRITERIA

SHEET NUMBER
S1.01

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INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBILITIES:
   1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.
   2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.
   3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.
   4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.
   5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.
   6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.
   7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.
C. SPECIAL INSPECTIONS:
   1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. HE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.
   2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE INTERNATIONAL BUILDING CODE, SECTION 1704.
   3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCE STANDARD	FREQUENCY

STRUCTURAL REINFORCING STEEL:
- a. HIGH STRENGTH BOLTING
  - BEARING TYPE CONNECTIONS: PERIODIC
  - SLIP CRITICAL CONNECTIONS: PERIODIC
- b. WELDING OF STRUCTURAL STEEL:
  - FULL PENETRATION GROOVE WELDS: CONTINUOUS
  - MULTI-PASS FILLET WELDS: CONTINUOUS
  - SINGLE-PASS FILLET WELDS > 5/16": CONTINUOUS
  - SINGLE PASS FILL WELDS <= 5/16": PERIODIC
  - FLOOR AND DECK WELDS: PERIODIC
- c. WELDING OF REINFORCING STEEL
  - WELDABILITY OF STEEL OTHER THAN ASTM A706: PERIODIC
  - SHEAR REINFORCEMENT: CONTINUOUS
  - OTHER REINFORCEMENT: PERIODIC
- d. INSPECTION OF STEEL FRAME AND JOISTS:
  - DETAILS SUCH AS BRACING AND STIFFENING: PERIODIC
  - MEMBER SIZES AND LOCATION: PERIODIC
  - APPLICATION OF CONNECTION DETAIL: PERIODIC
- e. CONCRETE CONSTRUCTION:
  - REINFORCING STEEL: PERIODIC (RANDOMLY AT 20%)
  - CONCRETE MIX DESIGN: PERIODIC AT EACH CONCRETE POUR
  - SAMPLING OF FRESH CONCRETE: CONTINUOUS (SEE NOTE 1)
  - MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES: PERIODIC AT EACH POUR
  - INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF TECHNIQUES: CONTINUOUS
  - INSPECTING OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS: PERIODIC
- f. SOILS (SLAB ON GRADE):
  - VISUAL OBSERVATIONS: PERIODIC
  - PROOF ROLLING OBSERVATION: CONTINUOUS
  - MOISTURE CONDITIOINING & RECOMPACTION: CONTINUOUS OR PERIODIC (ONE DENSITY TEST FOR EACH 2,000 SF)
  - DURING FILL PLACEMENT: CONTINUOUS OR PERIODIC
  - EVALUATION OF IN PLACE DENSITY FILL: CONTINUOUS OR PERIODIC
- g. PIERS:
  - OBSERVE DRILLING OPERATIONS AND COMPLETE RECORD OF DRILLING: CONTINUOUS
  - VERIFY PLACEMENTS LOCATIONS AND PLUMBNESS, LNEGTH, EMBEDMENT AND ADEQUATE BEARING STRENGTH CAPACITY, CONFIRM PIER DIAMETER, REINFORCING STEEL (RE: CONCRETE ABOVE): CONTINUOUS
- h. MASONRY:
  - VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS: PERIODIC
  - AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:
    1. PROPORTIONS OF SITE-PREPARED MORTAR: PERIODIC
    2. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
    3. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES: PERIODIC
  - PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:
    1. GROUT SPACE: PERIODIC
    2. GRADE, TYPE AND SIZE REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES: PERIODIC
    3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES: PERIODIC.
    4. PROPORTIONS OF SITE-PREPARED GROUT: PERIODIC.
    5. CONSTRUCTION OF MORTAR JOINTS: PERIODIC
  - VERIFY DURING CONSTRUCTION:
    1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS: PERIODIC.
    2. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION: PERIODIC.
    3. WELDING OF REINFORCMENT: CONTINUOUS
    4. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)): PERIODIC
  - OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS: PERIODIC

NOTES:

- PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPECD VALUE.
- ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE PULL TESTED TO 110% FOR NO LESS THAN 3 MIN.
- ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
- CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

MASONRY

A. CONSTRUCT REINFORCED MASONRY IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES", ACI 530.1/ASC36. MASONRY ALLOWABLE DESIGN STRESSES ARE BASED UPON REQUIRING NO SPECIAL INSPECTION.
B. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 MINIMUM FACE THICKNESS SHALL BE 1.25". ALL WALLS ARE LIGHT WEIGHT BLOCKS (105 PCF OR LESS).
C. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL BOLTS USED FOR ANCHORAGE SHALL BE ASTM A307 HEADED BOLTS.
D. MASONRY STRENGTH (F'M) AT 28 DAYS SHALL BE A MINIMUM OF 2,000 PSI. USE TYPE M OR S MORTAR. MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE AT LEAST 2800 PSI.
E. PROVIDE MORTAR BED OR WEB BETWEEN GROUTED BED AND HOLLOW CELL. USE FULL HEAD AND BED JOINTS.
F. UNLESS SHOWN ON DETAILS, PROVIDE #9 LADDER OR TRUSS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. PROVIDE 2-#5 AT ALL JAMBS AND ENDS OF WALLS.
G. GROUT SOLID THE FIRST CELL ON EITHER SIDE OF DOOR OPENINGS, UNLESS OTHERWISE NOTED. PROVIDE 8" U-BLOCK CMU LINTEL WITH 8" BEARING EACH END; REINFORCE WITH (2) # 4 BOTTOM.
H. EMBED ALL BOLTS IN FULL GROUTED CELL. PLACE BOLTS IN SAME VERTICAL CELL AS REINFORCING IF POSSIBLE. MINIMUM EMBEDDED LENGTH IS ONE-HALF WIDTH OF CELL.
I. UNLESS SHOWN ON DETAILS, PROVIDE (2) #5 HORIZONTAL REINFORCEMENT IN FULLY GROUTED CELL AT 48" OC VERTICALLY.
J. GROUT SOLID THE FIRST CELL ON EACH LEVEL & ROOF. REINFORCE WITH HORIZONTAL AS PER NOTE 1. RE: TO DETAIL 9 ON THE TYPICAL CMU DETAIL SHEET.

REINFORCEMENT TABLE: NON-LOAD BEARING CMU WALL (CMU 2.0-60, 105 PCF)

INTERIOR WALLS = 10 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
14'-0"	#4 @ 48" OC	#4 @ 48" OC	#4 @ 48" OC	
16'-0"	#4 @ 40" OC	#4 @ 48" OC	#4 @ 48" OC	
18'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
20'-0"	#4 @ 24" OC	#4 @ 40" OC	#4 @ 48" OC	
22'-0"	#4 @ 16" OC	#5 @ 32" OC	#4 @ 48" OC	
24'-0"		#5 @ 32" OC	#4 @ 40" OC	
26'-0"		#5 @ 24" OC	#4 @ 32" OC	
28'-0"		#6 @ 32" OC	#5 @ 40" OC	
30'-0"		#6 @ 24" OC	#5 @ 32" OC	
32'-0"		#6 @ 24" OC	#6 @ 32" OC	
34'-0"			#6 @ 24" OC	
36'-0"			#7 @ 32" OC	
38'-0"			#7 @ 32" OC	#7 @ 32" OC
40'-0"				#7 @ 32" OC
EXTERIOR WALLS = 30 PSF				
UNBRACED HEIGHT, FT	6" CMU	8" CMU	10" CMU	12" CMU
10'-0"	#4 @ 32" OC	#4 @ 48" OC	#4 @ 48" OC	
12'-0"	#4 @ 24" OC	#4 @ 32" OC	#4 @ 48" OC	
14'-0"	#4 @ 16" OC	#4 @ 32" OC	#4 @ 32" OC	
16'-0"	#6 @ 16" OC	#5 @ 24" OC	#5 @ 40" OC	
18'-0"		#5 @ 16" OC	#5 @ 24" OC	
20'-0"		#6 @ 16" OC	#5 @ 24" OC	
22'-0"		#6 @ 8" OC	#5 @ 16" OC	
24'-0"			#6 @ 16" OC	
26'-0"			#7 @ 16" OC	
28'-0"			#7 @ 8" OC	
30'-0"			#8 @ 8" OC	

NOTES:

1. DEFINITIONS:
   A. "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
   B. "U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, EXCEPT AS DETAIL ON DRAWINGS AT OPENINGS, ETC.)
   C. "N.A." NOT APPLICABLE, THICKER WALL REQUIRED FOR SPAN.
2. IF THE UN-BRACED WALL HEIGHT BETWEEN THE TWO LIMITS LISTED IN THE TABLE, REINFORCEMENT FOR THE GREATER HEIGHT SHALL BE PROVIDED. EXAMPLE: IF UN-BRACED HEIGHT = 15'-0" (FALLING BETWEEN 14'-0" AND 16'-0"), REINFORCEMENT FOR 16'-0" UN-BRACED HEIGHT SHALL BE PROVIDED.
3. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL. (Fy=60 ksi)
4. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
5. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
6. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOPENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE CMU WALL BY USING BAR POSITIONERS AT 8'-0" OC VERTICALLY.
7. SPLICING OF VERTICAL STEEL: PROVIDE LAP SPLICE LENGTH OF 48 BAR DIAMETERS, 36" MINIMUM.
8. FOR USE WITH PORTLAND CEMENT / LIME MORTAR.

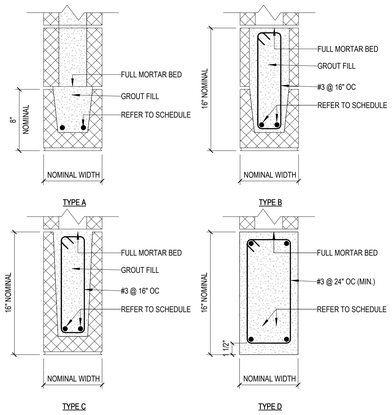
CONCRETE MASONRY UNIT (CMU) LINTEL SCHEDULE

A. PROVIDE 8" MINIMUM BEARING EACH END FOR CMU LINTELS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
B. CURVE CMU LINTEL AND REINFORCING FOR THE RADIUS OF THE WALL WHERE OCCURRING AND PROVIDE 1'-4" MINIMUM BEARING EACH END.

SPAN	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3		1-#3		2-#3		2-#3	
4-0	1-#4		2-#3		2-#3		2-#4	
4-8	2-#4		2-#4		2-#4		2-#4	
5-4	2-#4		2-#4		2-#4	2-#3	2-#5	
6-0	2-#4	1-#4		2-#3	2-#5	2-#4	2-#5	2-#4
6-8		1-#5		2-#4		2-#4	2-#6	2-#4
7-4		1-#5		2-#4		2-#4		2-#5
8-0		1-#6		2-#4		2-#5		2-#5
8-8		1-#6		2-#5		2-#5		2-#6
9-4		1-#7		2-#5		2-#6		2-#6

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 7 5/8".
3. REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
4. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM f'm=1500 psi.
5. LINTELS SCHEDULED AS 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
6. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL. MINIMUM f'c = 3000 psi.

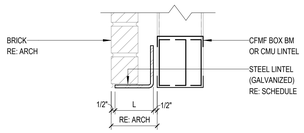


LOOSE VENEER LINTEL SCHEDULE

MASONRY OPENING	SIZE	DETAIL
LESS THAN 4'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
4'-0" BUT LESS THAN 5'-0"	"L" X 4" X 1/4" BENT PL (LLH)	J
5'-0" BUT LESS THAN 6'-0"	"L" X 5" X 1/4" BENT PL (LLH)	J
6'-0" BUT LESS THAN 8'-6"	"L" X 7" X 5/16" BENT PL (LLH)	J
8'-6" BUT LESS THAN 10'-0"	"L" X 7" X 3/8" BENT PL (LLH)	J

NOTES:

1. SEE DETAIL BELOW FOR TYPICAL LOOSE LINTEL HORIZONTAL LEG LENGTH "L". ALL DIMENSIONS PROVIDED MUST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. PROVIDE 8" MINIMUM BEARING EACH END FOR STEEL LOOSE LINTELS.
3. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. HOT DIP GALVANIZE ALL LINTELS AFTER FABRICATION.



COLD-FORMED METAL FRAMING:

A. PROVIDE COLD-FORMED METAL FRAMING, INCLUDING TRUSSES, STUDS, JOIST, TRACK, RUNNERS, LINTELS, CLIP ANGLES, REINFORCEMENTS, SHOES, BLOCKING, AND BRIDGING, COMPLETE WITH ALL FASTENERS, AND ACCESSORIES NEEDED FOR A COMPLETE AND FINISHED INSTALLATION.
B. THE STRUCTURAL DRAWINGS INDICATE THE GENERAL CONFIGURATION OF FRAMING FOR TYPICAL CONDITIONS ONLY. FINAL CONFIGURATION OF DETAILS AS WELL AS ALL SUPPLEMENTARY FRAMING TO OBTAIN THE ROOF PROFILES SHOWN ON THE PLANS SHALL BE AS DETERMINED BY DESIGN.
C. COLD-FORMED METAL FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) PUBLICATION: "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. PROVIDE STEEL FOR RAFTERS. JOISTS, STUDS AND ACCESSORIES CONFORMING TO ASTM A1003, GRADE 50, STRUCTURAL QUALITY STEEL SHEET FORMED TO 'C' SHAPES, UNPUNCHED WITH STIFFENED FLANGES.
D. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, GRADE C, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR STUDS AND JOISTS AND GRADE A, 33KSI, FOR RUNNERS. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING ASTM A525, G-60, OR EQUIVALENT. TYPICAL.
E. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT.
F. SUBMIT SHOP DRAWINGS FOR ALL FRAMING PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER, AND CALCULATIONS, SIGNED AND SEALED BY SAID ENGINEER, FOR REVIEW PRIOR TO ERECTION OF ANY COLD-FORMED METAL FRAMING.
   1. SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL CONTAIN THE FOLLOWING FOR EACH :
      - COMPLETE ERECTION DRAWINGS SHOWING LOCATION AND SPACING OF ALL FRAMING MEMBERS.
      - SIZE AND GAGE OF ALL FRAMING MEMBERS.
      - DETAIL DRAWINGS OF ALL PREFABRICATED ASSEMBLIES.
      - LOADING CONDITIONS USED IN DESIGN.
      - CALCULATED FORCES FOR ALL MEMBERS.
      - ANCHORAGE DETAILS, CONNECTION DETAILS, SLICE DETAILS, TEMPORARY AND PERMANENT BRACING.
G. TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE.
H. THE INFORMATION PROVIDED SHALL TAKE INTO ACCOUNT AND SHOW ALL SPECIAL DESIGN, FRAMING AND CONNECTION REQUIREMENTS SUCH AS AT CONCENTRATED LOADS, UNBALANCED OR UNSYMMETRICAL LOAD CONDITIONS, AND OTHER NON-TYPICAL FRAMING DETAILS.
I. SPLICES IN FRAMING COMPONENTS, OTHER THAN RUNNER TRACK, SHALL NOT BE PERMITTED.
J. BLOCKING SHALL BE PROVIDED AT SUPPORTS WHERE JOISTS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
K. ABUTTING LENGTHS OF RUNNER TRACK SHALL BE BUTT-WELDED, SPLICED OR EACH LENGTH SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT. RUNNER TRACK SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE.
L. MEMBER PERFORMANCE:
   1. RAFTERS AND HEADERS: VERTICAL DEFLECTION IS LIMITED TO 1/240 OF THE SPAN.
   2. STUDS: HORIZONTAL DEFLECTION IS LIMITED TO 1/240 OF THE SPAN (TYPICAL); FOR BRICK VENEER 1/600 OF THE SPAN.
M. PROVIDE MEMBERS WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:

SECTION	MINIMUM THICKNESS	Ix (MOMENT OF INERTIA)	Sx (SECTION MODULUS)	FY (YIELD STRENGTH)
6" TYPICAL JOISTS, RAFTERS	0.056 INCHES	2.83 INCHES^4	0.95 INCHES^3	50 KISI
6" EXTERIOR STUDS	0.056 INCHES	2.31 INCHES^4	0.95 INCHES^3	50 KISI
3 5/8" INTERIOR STUDS	0.045 INCHES	0.71 INCHES^4	0.39 INCHES^3	33 KISI
RUNNER TRACK	0.045 INCHES	2.49 INCHES^4	0.81 INCHES^3	33 KISI

DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT **STRUCTURES**
B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACING OR SHORING & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES, ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.
C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.
D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.
E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.
F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.
H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.
I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

SHORING REQUIREMENTS

A. DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY SHORING AND BRACING TO SAFELY SUPPORT THE EXISTING WALLS, FLOOR SLABS AND ROOF WHERE NEW OPENINGS ARE TO BE CUT INTO THE EXISTING WHERE LOAD-BEARING ELEMENTS ARE TO BE REMOVED.
B. SUBMIT CALCULATIONS, SHORING PROCEDURES AND DETAILS PREPARED, AND SEALED, BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO THE ARCHITECT FOR REVIEW PRIOR TO PRECEDING WITH THIS WORK.
C. SHORING AND BRACING WORK SHALL BE PERFORMED BY A SHORING CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN SIMILAR TYPE OF WORK.
D. PRIOR TO START OF WORK, ESTABLISH AND DOCUMENT ELEVATIONS OF THE EXITING CONSTRUCTION AT INTERVALS ALONG THE WALLS TO BE REMOVED. CONTINUOUSLY MONITOR THE ELEVATION DURING DEMOLITION AND CONSTRUCTION OPERATIONS. METHOD OF SHORING SHOULD HAVE PROVISIONS FOR VERTICAL ADJUSTMENT TO MAINTAIN ELEVATIONS OF EXISTING CONSTRUCTION.

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FRED DALLY 90904 REGISTERED ENGINEER
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
GENERAL STRUCTURAL CRITERIA

SHEET NUMBER
S1.02

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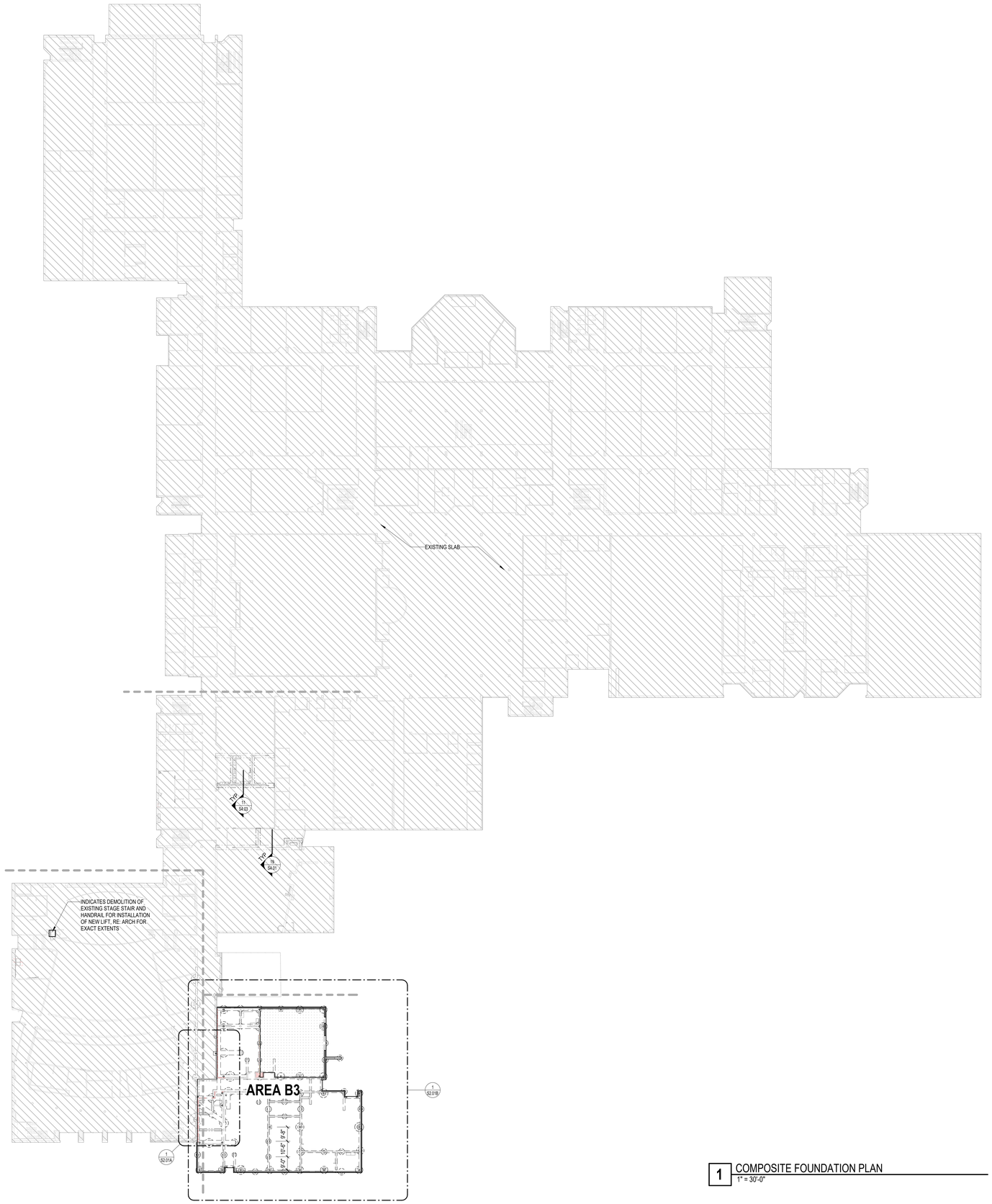

1 COMPOSITE FOUNDATION PLAN
1" = 30'-0"

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FORT BEND BOND 2024 INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
FOUNDATION PLAN - OVERALL

SHEET NUMBER
S2.01

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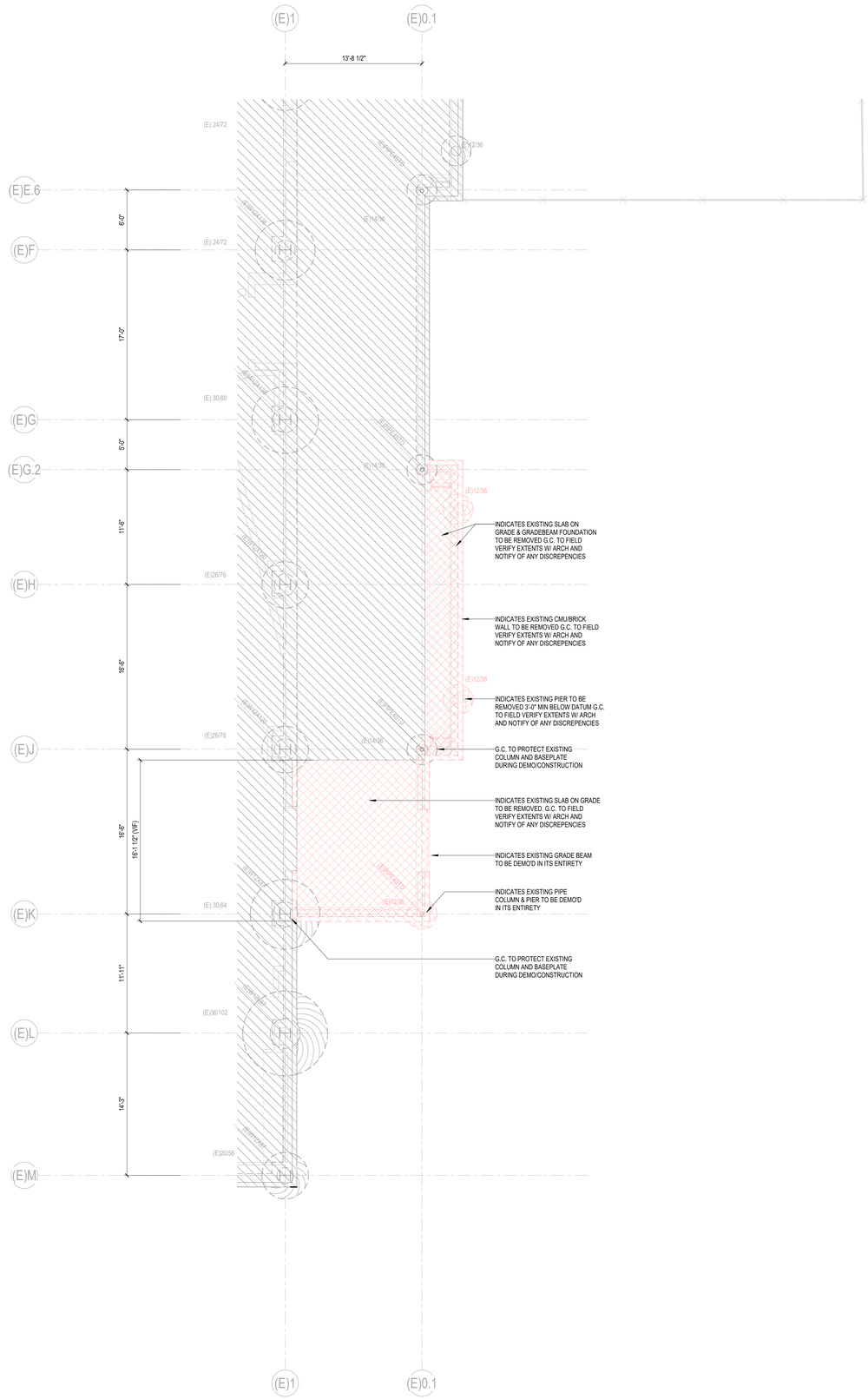

1 ENLARGED FOUNDATION DEMO PLAN - AREA B3
3/16" = 1'-0"

EXISTING CONDITIONS NOTES TO G.C.:

1. ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO PREPARING THE SHOP DRAWINGS AND START OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS PRIOR TO BEGINNING ANY DEMOLITION.
3. DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD IF MODIFICATIONS TO THE DESIGN ARE REQUIRED DUE TO FIELD VERIFIED DIMENSIONS AND CONDITIONS.
4. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
5. ONLY CMU PARTITIONS TO BE DEMOLISHED ARE NOTED ON STRUCTURAL DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PARTITIONS NOT SHOWN THAT REQUIRE DEMOLITION. COORDINATE EXTENTS WITH ARCH PRIOR TO CONSTRUCTION.
6. REFER TO ARCHITECTURAL AND CIVIL DEMO PLANS FOR SITE DEMO ITEMS.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
ENLARGED FOUNDATION DEMO PLAN - AREA B3

SHEET NUMBER
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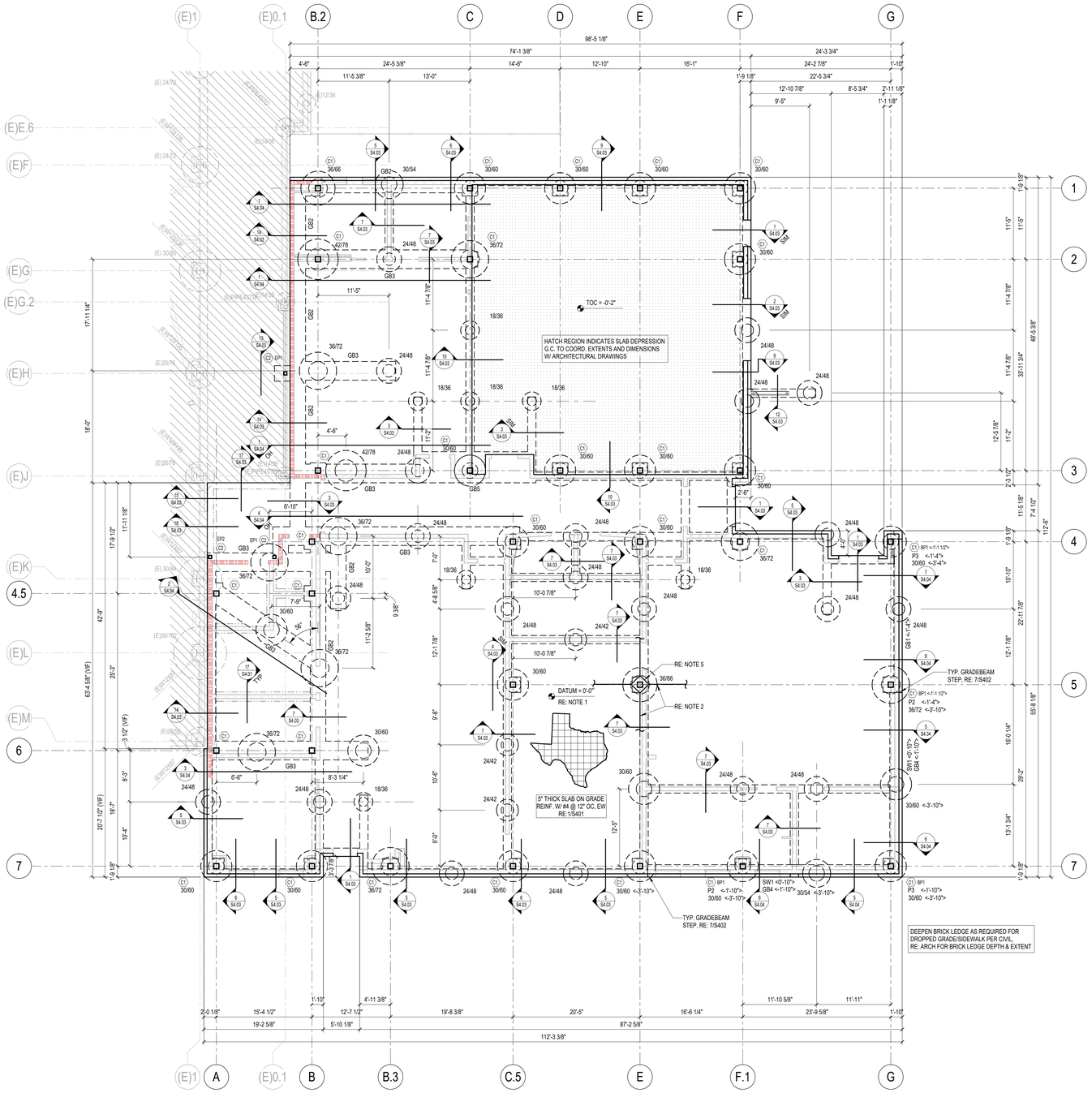

1 FOUNDATION PLAN - AREA B3

1/8" = 1'-0"

EXISTING CONDITIONS NOTES TO G.C.:

1. ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO PREPARING THE SHOP DRAWINGS AND START OF CONSTRUCTION.
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4. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
5. ONLY CMU PARTITIONS TO BE DEMOLISHED ARE NOTED ON STRUCTURAL DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PARTITIONS NOT SHOWN THAT REQUIRE DEMOLITION. COORDINATE EXTENTS WITH ARCH PRIOR TO CONSTRUCTION.
6. REFER TO ARCHITECTURAL AND CIVIL DEMO PLANS FOR SITE DEMO ITEMS.

FOUNDATION NOTES:

1. DATUM ELEVATION +0'-0" CORRESPONDS TO TRUE ELEVATION = RE: CIVIL. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION +0' - 0".
2. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 15'-0"), TYPICAL UON. FOR ADDITIONAL INFORMATION **RE: 3 / S4.01**
3. PROVIDE ADDITIONAL REINFORCING AT ALL RE-ENTRANT CORNERS & DROPS **RE: 5 / S4.01**
4. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS. FOR TYPICAL HOUSEKEEPING PAD DETAIL **RE: 12 / S4.01**
5. * (C1) * (EXAMPLE) INDICATES COLUMN SIZE

   "[BP1]" (EXAMPLE) INDICATES BASE PLATE TYPE
   FOR COLUMN, BASE PLATE & ANCHOR BOLT **RE: 5 / S3.01 RE: 6 / S3.01**
   FOR TYPICAL COLUMN BLOCKOUT DETAILS **RE: 3 / S4.01RE: 7 / S4.01RE: 8 / S4.01RE: 9 / S4.01**
6. "18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE
   ALL INTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-10"> TYP. UON.
   ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION <-2'-10"> TYP. UON.
   ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRIDS ON THE GRADE BEAM, TYP UON.
   FOR DRILLED PIER SCHEDULE & DETAILS **RE: 1 / S3.01**
7. "P1" (EXAMPLE) INDICATES PLINTH TYPE
   ALL INTERIOR PLINTHS ARE TYPE "P1" TYP, UON
   ALL PERIMETER PLINTHS ARE TYPE "P2" TYP, UON
   ALL CORNER PLINTHS ARE TYPE "P3" TYP, UON
   ALL RE-ENTRANT CORNER PLINTHS ARE TYPE "P4" TYP, UON
   T.O. PLINTHS ARE AT <- 0'-10"> TYP, UON.
   FOR PLINTH SCHEDULE & DETAILS **RE: 3 / S3.01**
8. "GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE
   ALL GRADE BEAMS ARE TYPE "GB1" TYP, UON.
   ALL GRADE BEAMS ARE AT ELEVATION <-0'-10"> TYP. UON.
   PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS **RE: 2 / S4.02**
   FOR GRADE BEAM SCHEDULE & DETAILS **RE: 2 / S3.01**
9. "SW1" (EXAMPLE) INDICATES GRADE BEAM TYPE
   ALL STEM WALLS ARE TYPE "SW1" TYP, UON.
   ALL STEM WALL ARE AT ELEVATION <-0'-10"> TYP, UON. **RE: 8 / S3.01**
9. TYPICAL LIGHT POLE FOUNDATION DETAIL **RE: 1 / S4.05**
10. G.C. TO COORDINATE ALL SLAB ON GRADE SLOPES, DEPRESSIONS, ELEVATIONS, FLOOR AND TRENCH DRAINS WITH ARCH. PRIOR TO CONSTRUCTION.
11. CONCRETE CURBS NOT SHOWN FOR CLARITY.
    G.C TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS.
    FOR TYPICAL CONCRETE CURB DETAIL **RE: 13 / S4.01**
12. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY.
    G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS
    FOR CMU WALLS SLAB ON GRADE SUPPORT **RE: 7 / S4.03RE: 17 / S4.01 RE: -/ --**
13. MORE STRINGENT GROUTING REQUIREMENTS MAY BE APPLICABLE AND SUPERCEDE THAT OF STRUCTURAL SPECS, REFERENCE ARCH WALL ASSEMBLIES AND STC RATINGS FOR GROUTING MINIMUMS.

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FRED DALLY 90904 REGISTERED PROFESSIONAL ENGINEER
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
FOUNDATION PLAN - AREA B3

SHEET NUMBER
S2.01B

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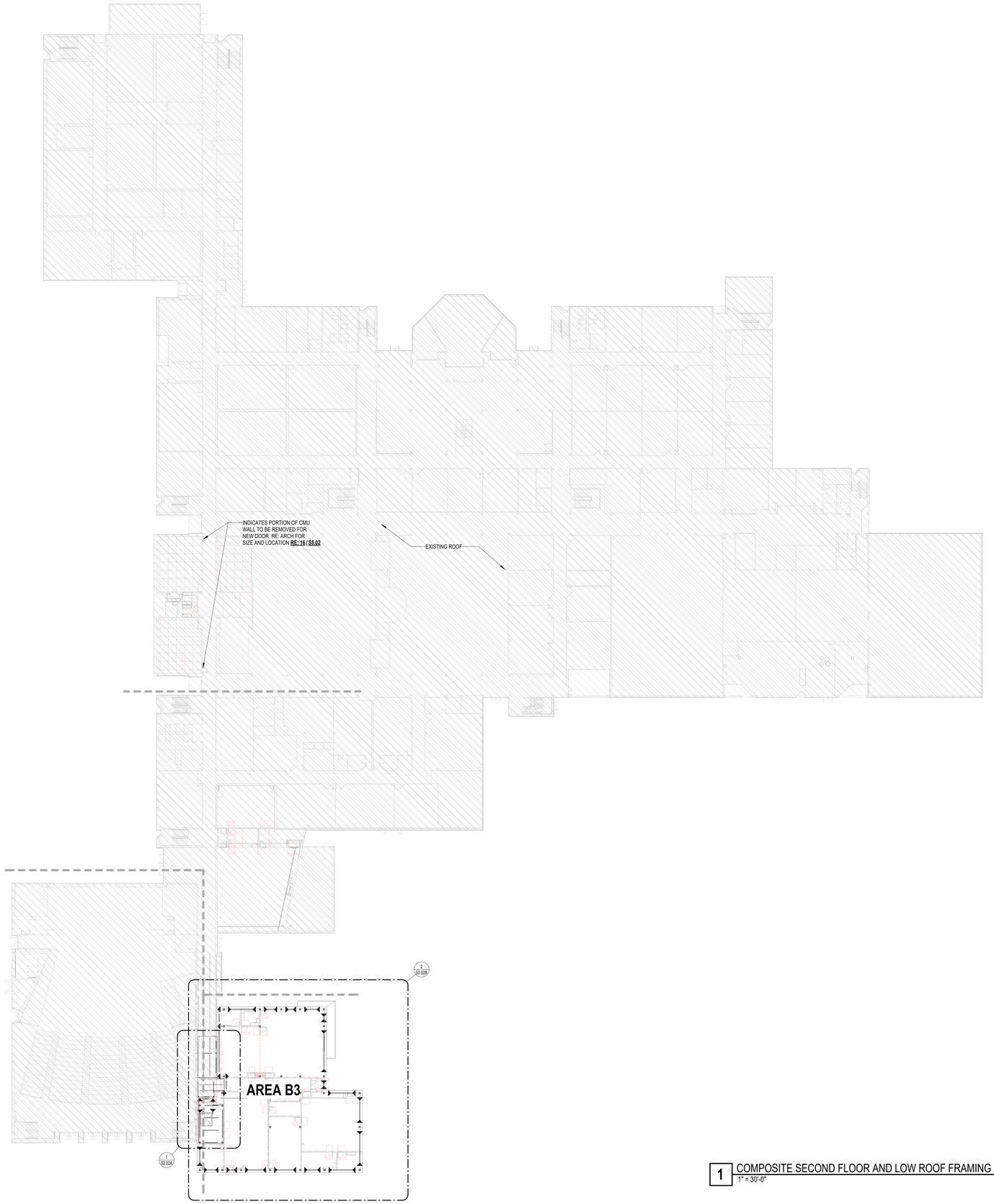

1 COMPOSITE SECOND FLOOR AND LOW ROOF FRAMING PLAN
1" = 30'-0"

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FORT BEND 2025 BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
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PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
MEZZANINE FRAMING PLAN - OVERALL

SHEET NUMBER
S2.02

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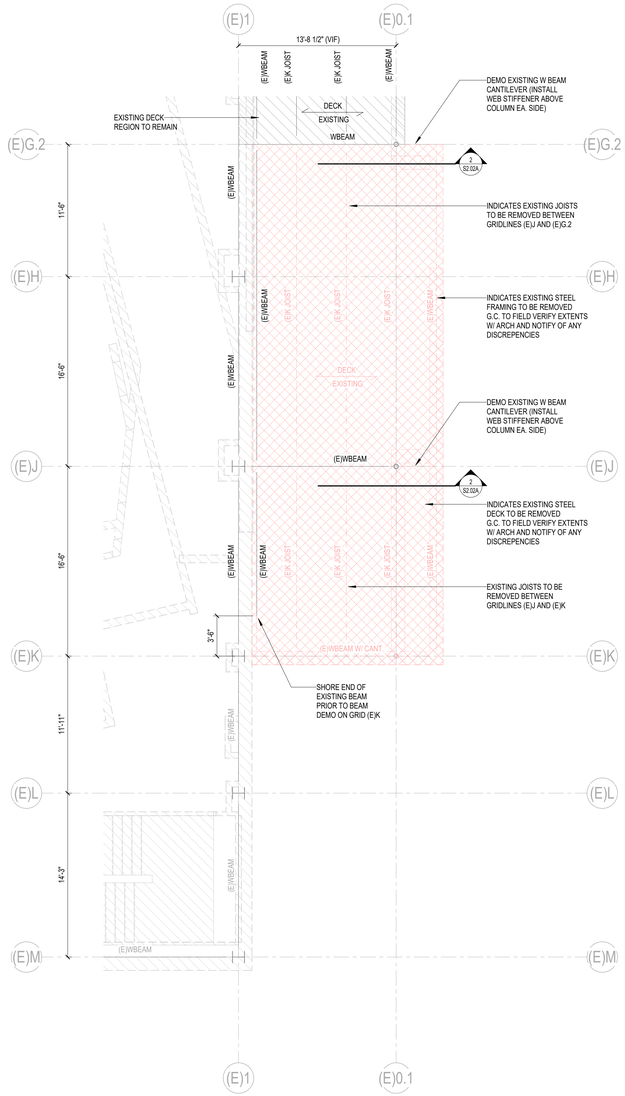
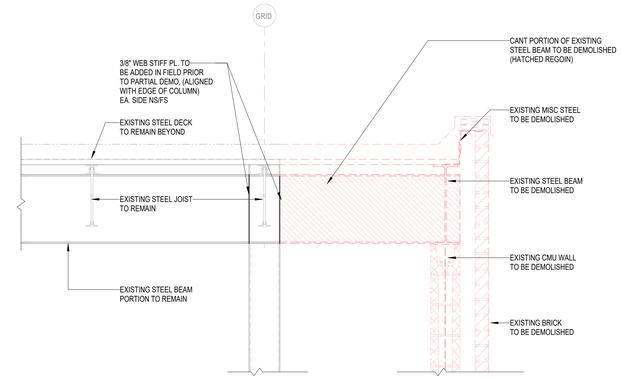


1 ENLARGED LOW ROOF DEMO PLAN - AREA B3
3/16" = 1'-0"



2 EXISTING ROOF SECTION
3/4" = 1'-0"

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
ENLARGED LOW ROOF DEMO PLAN - AREA B3

SHEET NUMBER
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LICENSED PROFESSIONAL ENGINEER
09/16/2025

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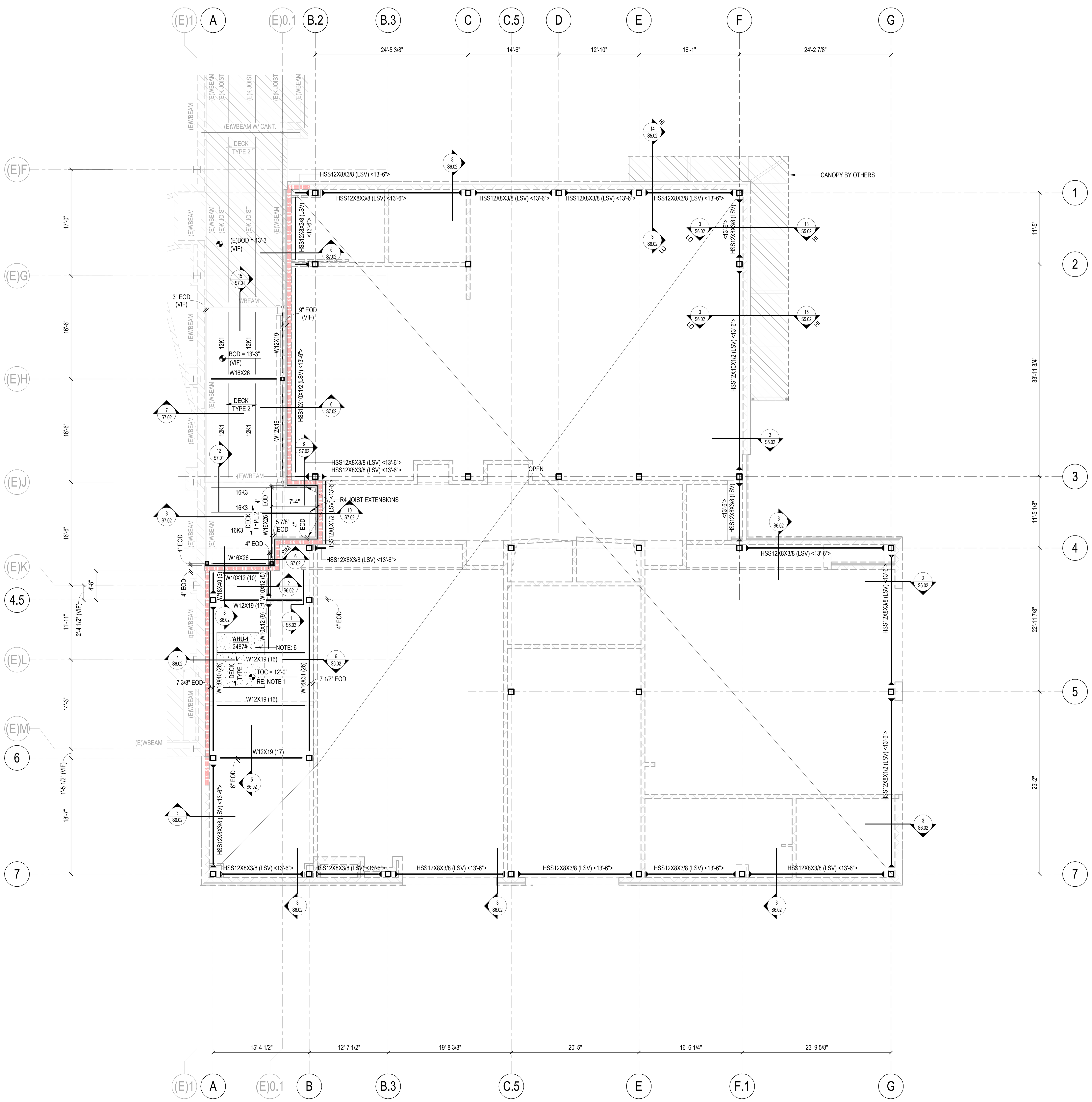

2 MEZZANINE FRAMING PLAN - AREA B3
1/8" = 1'-0"

EXISTING CONDITIONS NOTES TO G.C.:

1. ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO PREPARING THE SHOP DRAWINGS AND START OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS PRIOR TO BEGINNING ANY DEMOLITION.
3. DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD IF MODIFICATIONS TO THE DESIGN ARE REQUIRED DUE TO FIELD VERIFED DIMENSIONS AND CONDITIONS.
4. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
5. ONLY CMU PARTITIONS TO BE DEMOLISHED ARE NOTED ON STRUCTURAL DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PARTITIONS NOT SHOWN THAT REQUIRE DEMOLITION. COORDINATE EXTENTS WITH ARCH PRIOR TO CONSTRUCTION.
6. REFER TO ARCHITECTURAL AND CIVIL DEMO PLANS FOR SITE DEMO ITEMS.

STEEL ROOF FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. " DECK TYPE 2 " (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 2.
   TOS ELEVATION AT ROOF DECKS ARE AT BOD, TYP, UON.
   FOR DECK TYPE INFORMATION "STRUCTURAL STEEL" GENERAL NOTES.
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP. COORDINATE EXACT LOCATION OF ALL MEP UNITS WITH MEP. FOR FRAMING AROUND ROOF OPENINGS **RE: 8 / S7.01**
4. PIPE RUN LOCATIONS TO BE SUPPORTED BY THE JOIST MANUFACTER NOT SHOWN FOR CLARITY. JOIST MANUFACTERER AND G.C. TO TO COORDINATE FINAL PIPE RUN LOCATIONS WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION **RE: 14 / S7.01**
5. PROVIDE MID-SPAN BEAM BRACING AT ALL BEAMS DENOTED WITH "(*)" SIM TO DETAIL **RE: 1 / S7.02** **RE: 2 / S7.02**

COMPOSITE DECK FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. " DECK TYPE 1 " INDICATES COMPOSITE DECK SPAN DIRECTION.
   T.O.S. ELEVATION AT COMPOSITE DECK IS 5 1/2" BELOW T.O. CONCRETE, TYP UON.
   FOR DECK TYPE INFORMATION "STRUCTURAL STEEL" GENERAL NOTES .
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP. FOR TYPICAL FRAMING AROUND COMPOSITE DECK OPENINGS **RE: 2 / S6.01** **RE: 3 / S6.01** **RE: 4 / S6.01**
4. CONCRETE CURBS NOT SHOWN ON PLAN FOR CLAIRTY (G.C. TO PROVIDE CONCRETE CURBS WHERE DESIGNATED BY ARCH DRAWINGS) FOR TYPICAL CONCRETE CURB DETAIL AT COMPOSITE DECKS **RE: 13 / S6.01**
5. PROVIDE MID-SPAN BEAM BRACING AT ALL BEAMS DENOTED WITH "(*)" SIM TO DETAIL **RE: 5 / S6.02** **RE: 6 / S6.02**
6. GENERAL CONTRACTOR TO PROVIDE HOUSEKEEPING PAD UNDER ALL MECH'L UNITS. FOR TYPICAL HOUSEKEEPING PAD DETAIL, **RE: 12 / S4.01**

FORT BEND BOND 2023
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
MEZZANINE FRAMING PLAN - AREA B3

SHEET NUMBER
S2.02B

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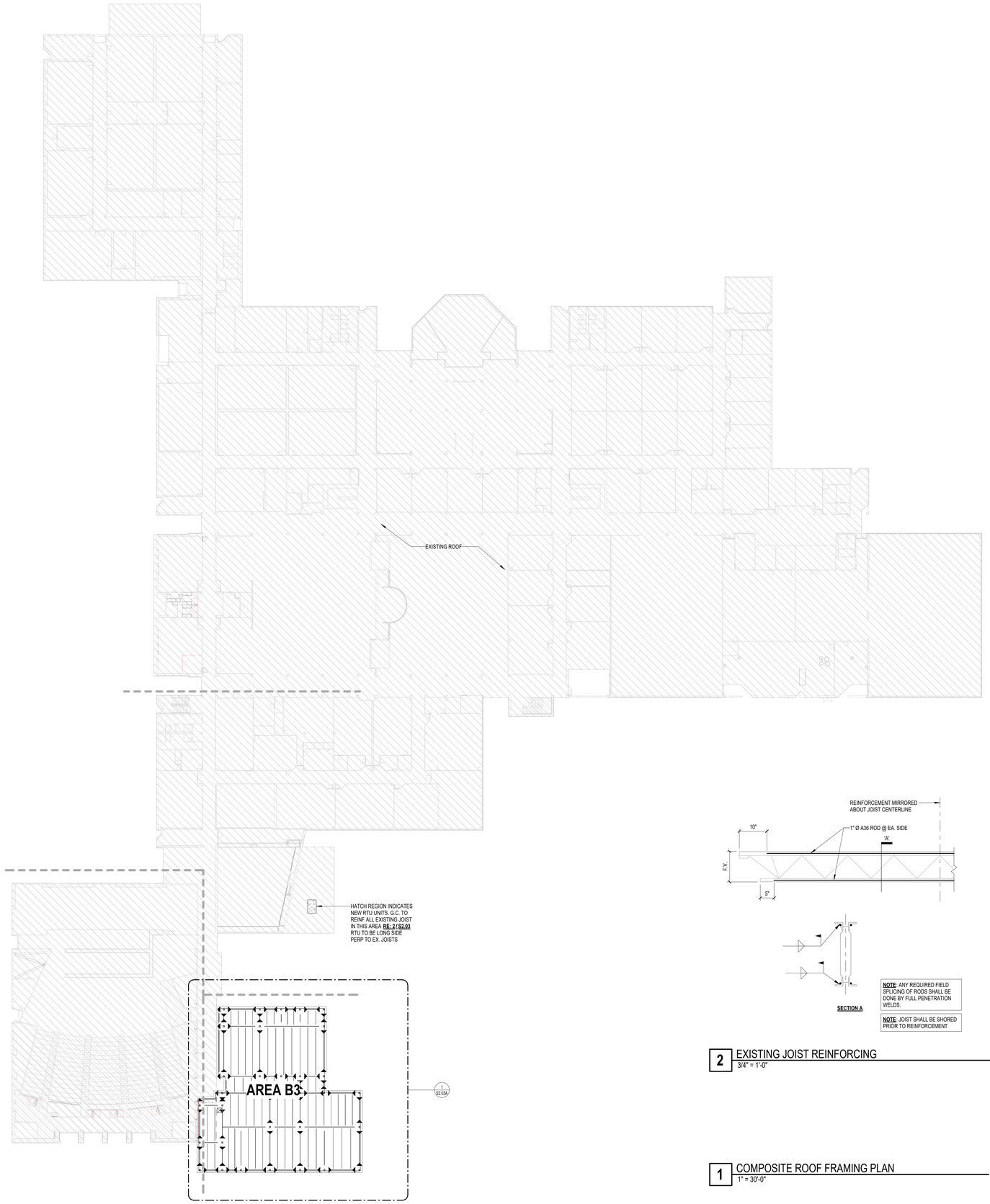
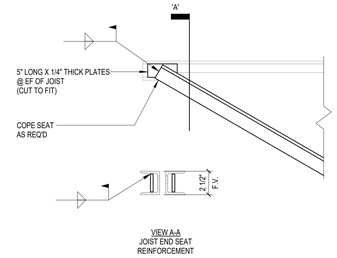
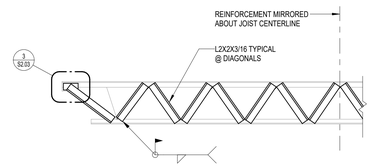




3 EXISTING JOIST SEAT REINFORCING
1 1/2" = 1'-0"



2 EXISTING JOIST REINFORCING
3/4" = 1'-0"

1 COMPOSITE ROOF FRAMING PLAN
1" = 30'-0"

Dally + ASSOCIATES
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Texas Registered Engineering Firm F-003426
D + A PROJECT 24-206-00

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FRED DALLY 90904 REGISTERED ARCHITECT STATE OF TEXAS
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
ROOF FRAMING PLAN - OVERALL

SHEET NUMBER
S2.03

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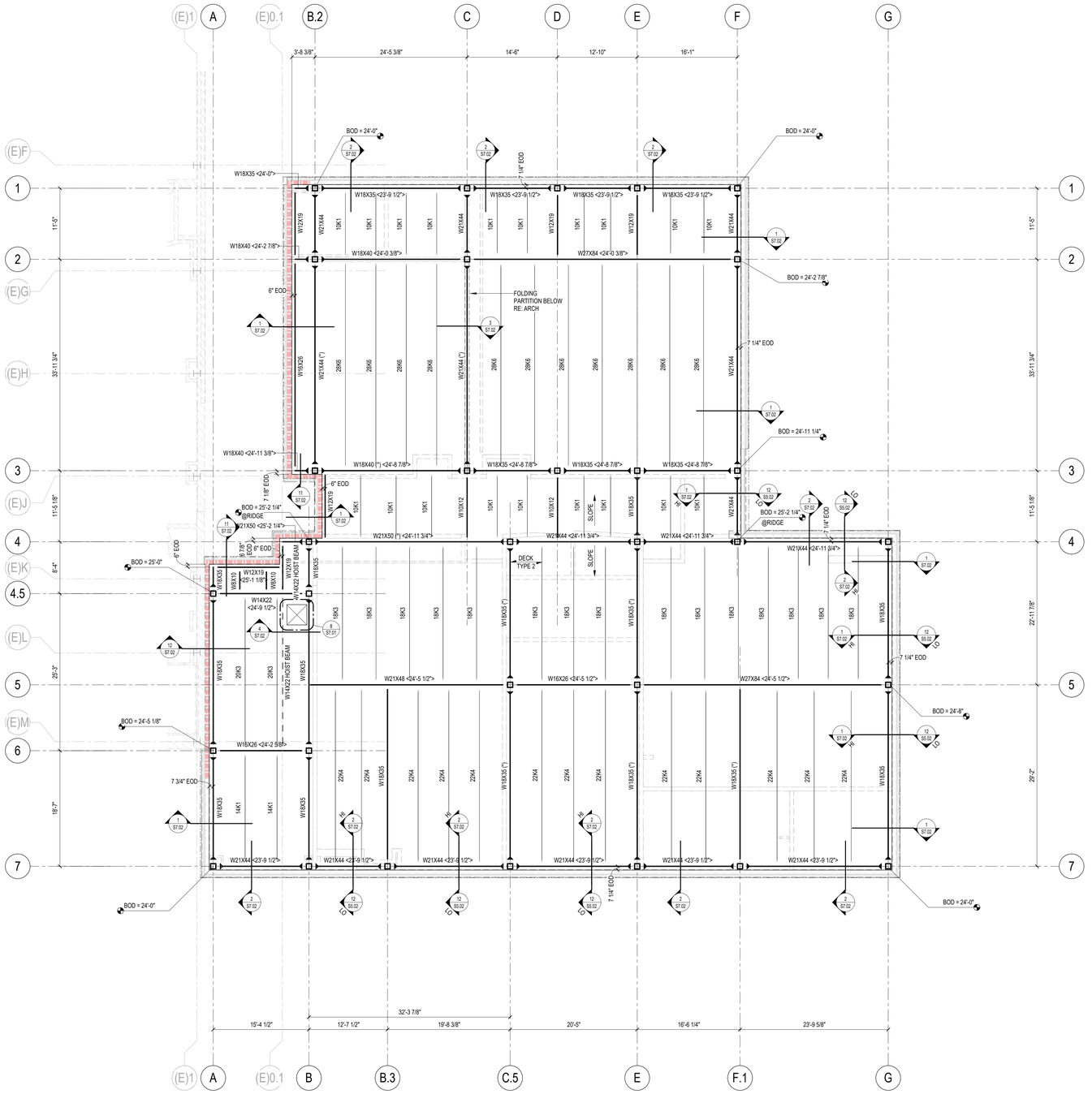

1 ROOF FRAMING PLAN - AREA B3
1/8" = 1'-0"

STEEL ROOF FRAMING NOTES:

1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. * DECK TYPE 2 * (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 2.
   TOS ELEVATION AT ROOF DECKS ARE AT BOD, TYP. UON.
   FOR DECK TYPE INFORMATION "STRUCTURAL STEEL" GENERAL NOTES.
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP. COORDINATE EXACT LOCATION OF ALL MEP UNITS WITH MEP. FOR FRAMING AROUND ROOF OPENINGS. **RE: 8 | S7.01**
4. PIPE RUN LOCATIONS TO BE SUPPORTED BY THE JOIST MANUFACTER NOT SHOWN FOR CLARITY. JOIST MANUFACTERER AND G.C. TO TO COORDINATE FINAL PIPE RUN LOCATIONS WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION **RE: 14 | S7.01**
5. PROVIDE MID-SPAN BEAM BRACING AT ALL BEAMS DENOTED WITH "(*)" SIM TO DETAIL **RE: 1 | S7.02 RE: 2 | S7.02**

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FRED DALLY 90904 REGISTERED ARCHITECT STATE OF TEXAS
09/16/2025

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FORT BEND BOND 2024 INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
ROOF FRAMING PLAN - AREA B3

SHEET NUMBER
S2.03A

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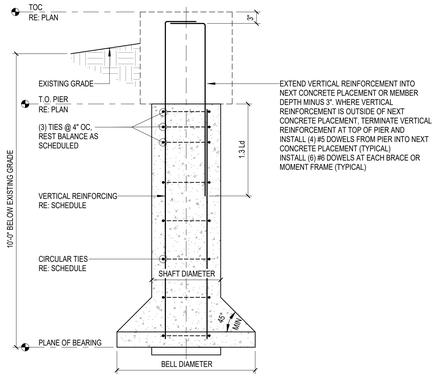
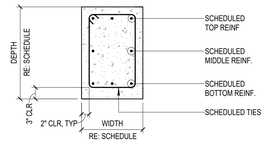
DRILLED PIER SCHEDULE					
SHAFT DIAMETER	VERTICAL REINFORCING		TIES		
	NUMBER	SIZE	SIZE	SPACING (IN)	
18	6	#5	#4	12	
24	6	#6	#4	12	
30	8	#6	#4	12	
36	10	#7	#4	12	
42	12	#8	#4	12	



1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW.
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE DRILLED PIER.
3. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE DRILLED PIER PRIOR TO PLACING REINFORCING AND CONCRETE.
4. CENTER ALL DRILLED PIERS UNDER THEIR COLUMNS, UON.
5. MAINTAIN CLOSE AND ACCURATE DRILLING PRACTICES TO ACHIEVE CLOSE TOLERANCES WITH THE REINFORCING STEEL AND THE ANCHOR ROD TEMPLATE.
6. ALL REINFORCING STEEL FOR DRILLED PIERS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
7. ALL SCHEDULED REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED.
8. DEPOSIT CONCRETE TO ITS FINAL POSITION BY THE USE OF A TREMIE.
9. CONSOLIDATE CONCRETE IN ITS FINAL POSITION BY VIBRATING.
10. **SLURRY NOTE:** THE PRESENCE OF WATER OR SLOUGHING DUE TO SAND HAS BEEN MENTIONED IN GEOTECHNICAL REPORT. CONTRACTOR TO PROVIDE AN ALTERNATE ITEMIZED, LUMP-SUM PRICE FOR ALL PIERS, PER SIZE, SHOWN ON PLAN USING SLURRY METHOD OR ANY EQUIVALENT CASING METHOD. LUMP-SUM PRICE MUST INCLUDE, BUT NOT LIMITED TO, MATERIAL LABOR MOBILIZATION AND ANY IMPACT TO THE PROJECT SCHEDULE. CONTRACTOR TO COORDINATE WITH ACI-336.1 AND ACI 336.3R SPECIFICATIONS FOR DRILLING AND PROCEDURE REQUIREMENTS FOR SLURRY DISPALCEMENT METHOD.
11. **CASING NOTE:** DUE TO SAND BEING MENTIONED IN THE GEOTECHNICAL REPORT, THERE IS A POSSIBILITY OF EXCAVATION COLLAPSE. THE CONTRACTOR SHALL BE PREPARED TO UTILIZE CASING AND STRAIGHT SHAFT PIERS MATCHING THE BELL DIAMETER FOR FULL DEPTH WITH ORIGINAL PIER REINFORCING NOTED IN SCHEDULE. UNIT PRICE AND ASSUMPTION IN BASE BID SHALL BE INCLUDED FOR THIS CONDITION. REFER TO BIDDING FORMS FOR ADDITIONAL INFORMATION. FOR BIDDING PURPOSES, PROVIDE COST FOR 5% OF ALL BELL SIZES SHOWN IN PROJECT FORMED AS STRAIGHT SHAFT PIERS BEARING AT THE ELEVATION SHOWN IN THE PIER DETAIL. COST SHALL INCLUDE, BUT NOT BE LIMITED TO, MATERIAL, LABOR, MOBILZATION AND ANY IMPACT TO THE PROJECT SCHEDULE.

1 DRILLED PIER SCHEDULE
3/4" = 1'-0"

GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	TOP REINF.	MIDDLE REINF.	BOTTOM REINF.	TIES (OC, TYP)
GB1	1'-4"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"
GB2	2'-6"	2'-0"	(3) #7	-	(3) #7	#4 @ 10"
GB3	3'-0"	2'-0"	(5) #7	-	(5) #7	#4 @ 10"
GB4	2'-0"	2'-0"	(4) #7	-	(4) #7	#4 @ 10"
GB5	5'-0"	2'-0"	(7) #7	-	(7) #7	#4 @ 10"



TYPICAL SECTION

2 GRADE BEAM SCHEDULE
3/4" = 1'-0"

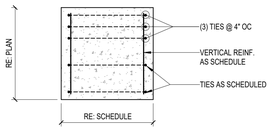
PLINTH SCHEDULE			
MARK	REINFORCING		REMARKS
	VERTICAL	TIES	
P1	(12) #6	#4 @ 10" OC	
P2	(12) #6	#4 @ 10" OC	
P3	(12) #6	#4 @ 10" OC	
P4	(12) #6	#4 @ 10" OC	TYPICAL AT RE-ENTRANT CORNERS

3 PLINTH SCHEDULE
3/4" = 1'-0"

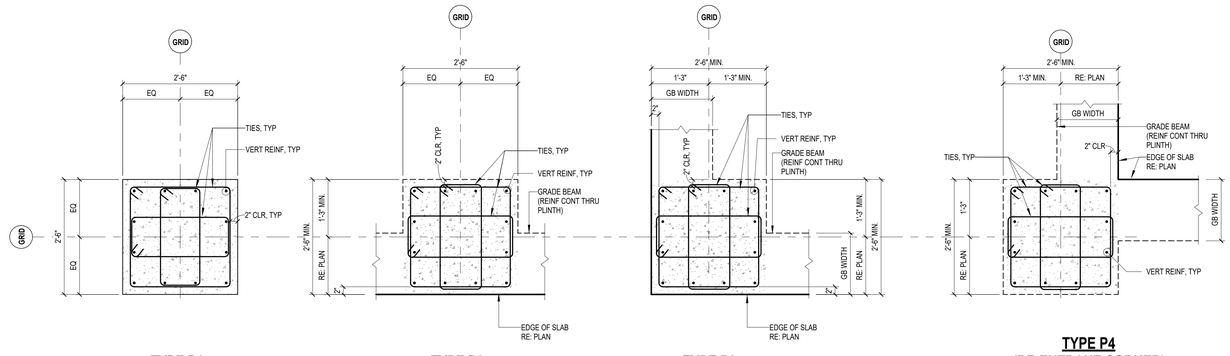
ALL DETAILS ARE PLAN VIEW UON

PLINTH GENERAL NOTES:

1. PROVIDE (3) TIES TO MATCH SCHEDULED TIE REINFORCING, TYPICAL AT ALL PLINTHS.
2. FOR PLINTH TYPE, ORIENTATE AND LOCATIONS RE: PLAN.
3. WHERE A PLINTH ARE INTEGRAL WITH A GRADE BEAMS OR STEM WALLS, EXTEND THE HORIZONTAL REINFORCING THROUGH THE PLINTH, TYPICAL.
4. THE DIMENSIONS SHOWN ARE MINIMUMS, GC TO COORDINATE W/ METAL BUILDING MANUFACTURER AND INCREASE PLINTH DIMENSIONS AS NECESSARY TO SATISFY BASE PLATE & ANCHOR BOLT REQUIREMENTS.



TYPICAL PLINTH SECTION



TYPE P1 **TYPE P2** **TYPE P3** **TYPE P4 (RE-ENTRANT CORNER)**

4 PLINTH DETAILS
3/4" = 1'-0"

STRUCTURAL STEEL COLUMN SCHEDULE				
MARK	COLUMN TYPE	BASEPLATE TYPE	BASEPLATE ELEVATION	REMARKS
C1	HSS10X10X1/2	BP1	- 0'-7 1/2"	
C2	HSS6X6X3/8	BP2, UON	- 0'-8 1/2"	

STRUCTURAL STEEL COLUMN GENERAL NOTES:

1. PROVIDE STRUCTURAL STEEL W SHAPES CONFORMING TO ASTM 992, GRADE 50.
2. PROVIDE STRUCTURAL STEEL FOR HSS COLUMNS CONFORMING TO ASTM A500, GRADE B.
3. PROVIDE STEEL FOR STIFFNER PLATES, CONNECTION PLATES AND ANGLES CONFORMING TO ASTM A36.
4. SAW OR MILL SURFACES NOTED F/N. (FINISHED) FOR TRUE AND FULL CONTACT.
5. USE E70XX WELDING ELECTRODES FOR ALL WELDS, UNLESS OTHERWISE NOTED.
6. PROVIDE WEB DOUBLER PLATES IF REQUIRED TO SATISFY CONNECTION DESIGN AND DEMANDS

5 COLUMN SCHEDULE (LIST)
3/4" = 1'-0"

BASEPLATE SCHEDULE														
MARK	TYPE	DIMENSIONS					BASE PL STEEL		ANCHOR RODS					WELD
		B (IN)	N (IN)	tp (IN)	X (IN)	Z (IN)	ASTM	KSI	#	Ø (IN)	P (IN)	L (IN)	W (IN)	
BP1	A	20	20	2			A529	50	4	1 3/4	8	28		10/16
BP2	A	12	12	1			A36	36	4	3/4	6	24		5/16
EP1	B	12	12	3/4			A36	36	4	3/4		6		5/16
EP2	C	12	12	3/4	3 1/2		A36	36	4	3/4		6		5/16

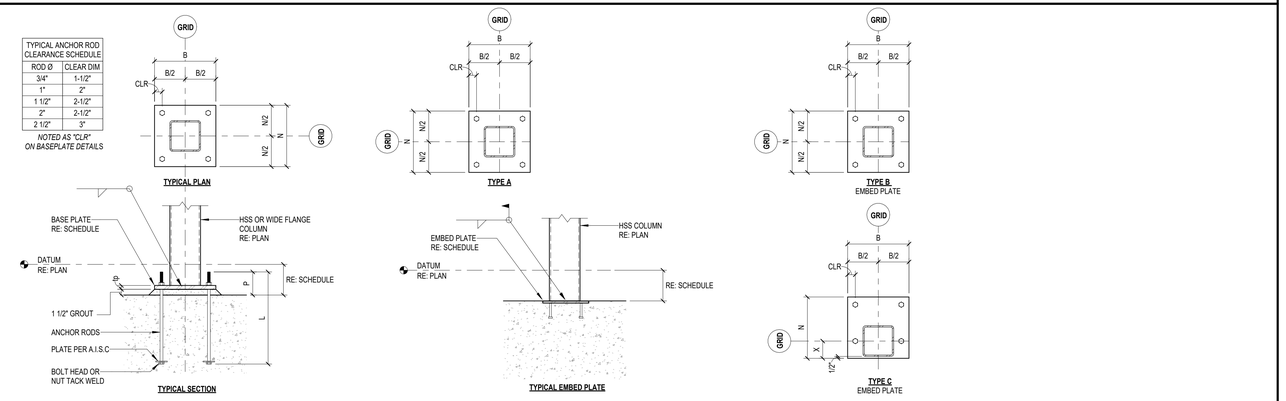
BASE PLATE GENERAL NOTES:

1. PROVIDE STEEL FOR BASE PLATES CONFORMING TO ASTM A36.
2. PROVIDE HOLES IN BASE PLATES IN ACCORDANCE WITH AISC 14TH EDITION.
3. PROVIDE ANCHOR RODS CONFORMING TO ASTM F1554, GRADE 55 WELDABLE.

6 BASEPLATE SCHEDULE
3/4" = 1'-0"

TYPICAL ANCHOR ROD CLEARANCE SCHEDULE	
ROD Ø	CLEAR DIM
3/4"	1-1/2"
1"	2"
1 1/2"	2-1/2"
2"	2-1/2"
2 1/2"	3"

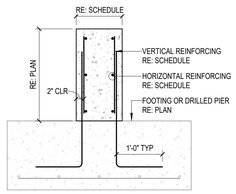
NOTED AS "CLR" ON BASEPLATE DETAILS



7 EMBED AND BASEPLATE DETAILS
3/4" = 1'-0"

STEM WALL SCHEDULE				
MARK	WIDTH	REINFORCING		REMARKS
		VERTICAL	HORIZONTAL	
SW1	1'-5 3/4"	#5 @ 12" OC, EF	#5 @ 12" OC, EF	OCCURS AT ALL LEDGE CONDITIONS

1. FOR STEM WALL EXTENTS AND LOCATION REFER TO FOUNDATION PLAN VIEW.
2. ALL CONTINUOUS STEM WALL REINFORCING IS TO RUN CONTINUOUS THROUGH ALL PLINTHS.
3. PROVIDE TYPICAL CORNER BAR REINFORCING AT ALL STEM WALL INTERSECTIONS PER DETAIL 1 ON THIS SHEET.



TYPICAL SECTION

8 STEM WALL SCHEDULE
3/4" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
FOUNDATION, COLUMN AND BASEPLATE SCHEDULES

SHEET NUMBER
S3.01

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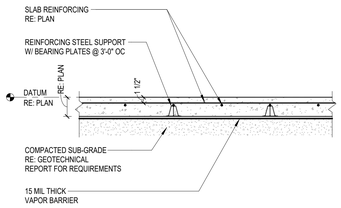
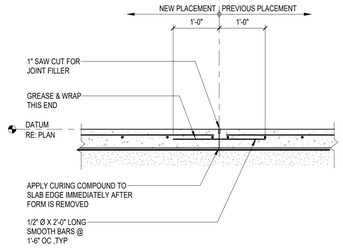
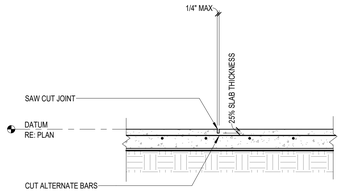


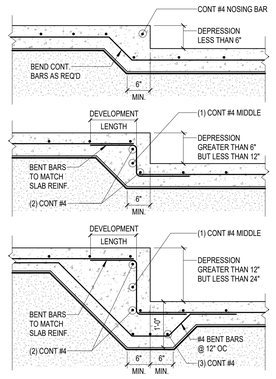
1 TYPICAL SLAB SECTION
3/4" = 1'-0"



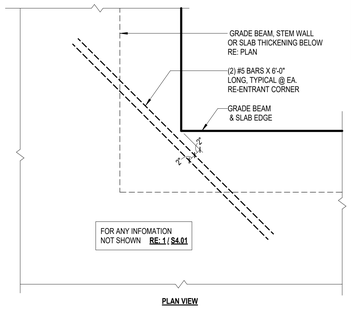
2 TYPICAL SECTION - CONSTRUCTION JOINT
3/4" = 1'-0"



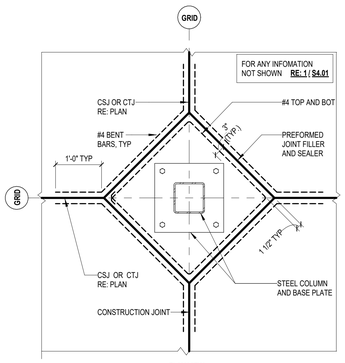
3 TYPICAL SECTION - CONTROL JOINT
3/4" = 1'-0"



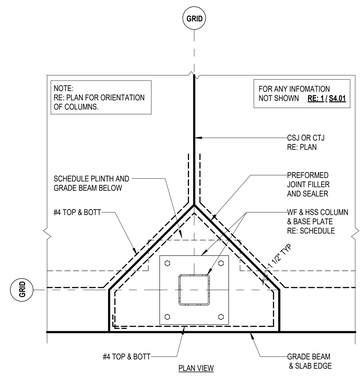
4 TYPICAL SLAB DEPRESSION DETAILS
3/4" = 1'-0"



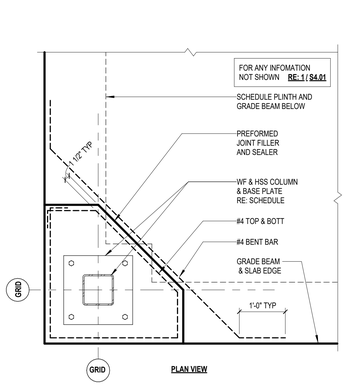
5 TYPICAL RE-ENTRANT CORNER REINF.
3/4" = 1'-0"



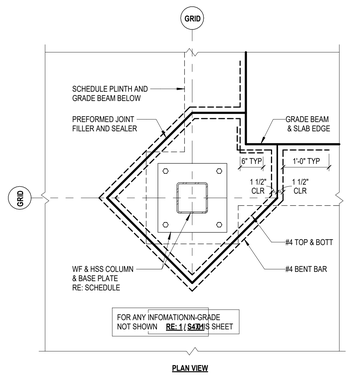
6 TYPICAL INTERIOR COLUMN BLOCKOUT
3/4" = 1'-0"



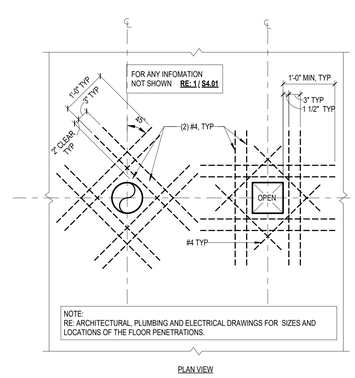
7 EXTERIOR COLUMN BLOCKOUT
3/4" = 1'-0"



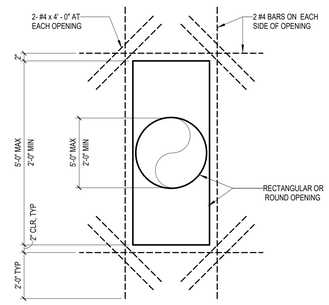
8 CORNER COLUMN BLOCKOUT
3/4" = 1'-0"



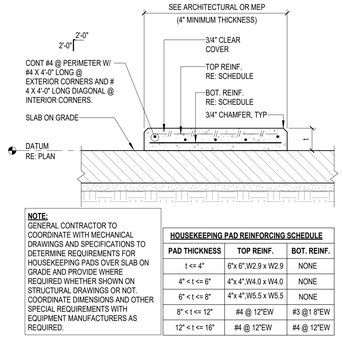
9 RE-CORNER COLUMN BLOCKOUT
3/4" = 1'-0"



10 SLAB REINF. AT OPENING 2'-0" OR LESS
3/4" = 1'-0"



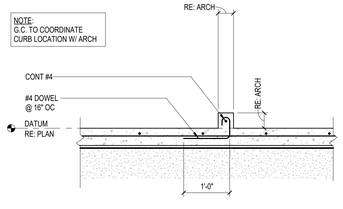
11 SLAB REINF. AT OPENING 5'-0" OR LESS
3/4" = 1'-0"



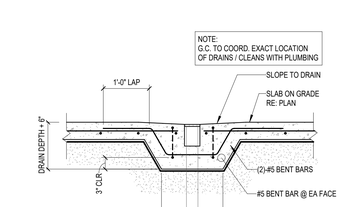
HOUSEKEEPING PAD REINFORCING SCHEDULE

PAD THICKNESS	TOP REINF.	BOT. REINF.
t <= 4"	6"x 6",W2.9 x W2.9	NONE
4" < t <= 6"	4"x 4",W4.0 x W4.0	NONE
6" < t <= 8"	4"x 4",W5.5 x W5.5	NONE
8" < t <= 12"	#4 @ 12"EW	#3 @1 6"EW
12" < t <= 16"	#4 @ 12"EW	#4 @ 12"EW

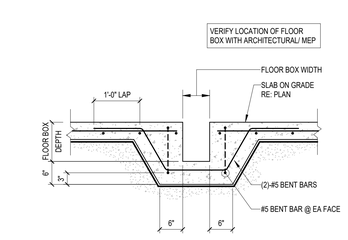
12 TYPICAL HOUSEKEEPING PAD DETAIL
3/4" = 1'-0"



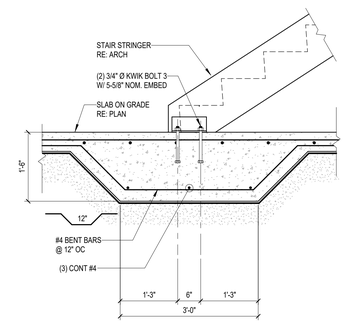
13 TYPICAL CURB DETAIL
3/4" = 1'-0"



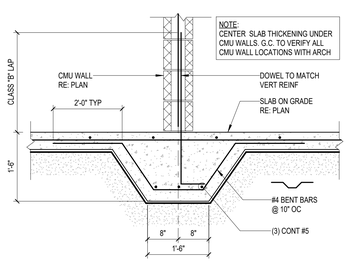
14 TYPICAL SLAB THICKENING AT SINK DRAIN
3/4" = 1'-0"



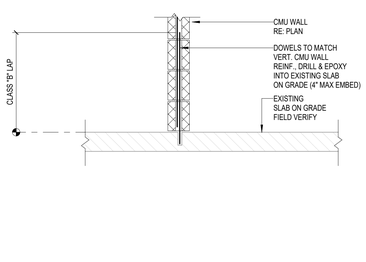
15 TYPICAL ELECTRICAL FLOOR BOX
3/4" = 1'-0"



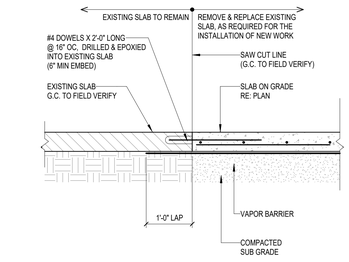
16 THICKENED SLAB AT STAIR STRINGER
3/4" = 1'-0"



17 TYPICAL SLAB THICKENING AT CMU (11'-0" OR LESS)
3/4" = 1'-0"



19 EXISTING FOUNDATION WITH NEW CMU (11'-0" MAX)
3/4" = 1'-0"



18 EXISTING SLAB SAWCUT
3/4" = 1'-0"

Dally + ASSOCIATES
STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm
F-003426
D + A PROJECT 24-206-00

Kirksey ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
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FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER
09/16/2025

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	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL SLAB ON GRADE DETAILS

SHEET NUMBER
S4.01

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Autodesk Docs://2023306 Willowridge High School/24-206 FBISD Willowridge HS Addn & Renv_STRUCT_R24.rvt
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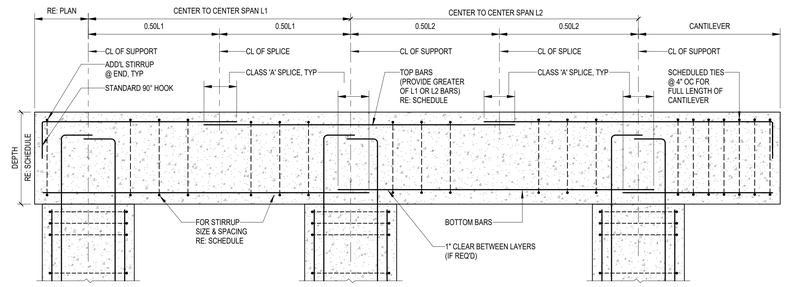
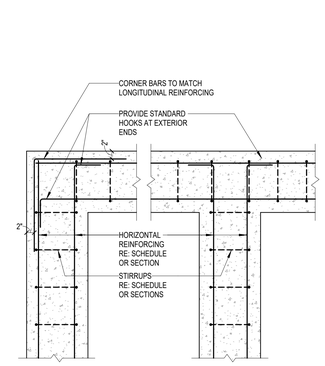
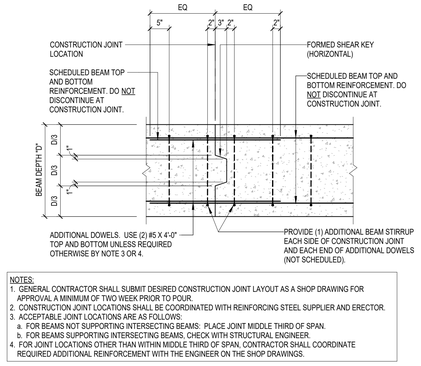


1 TYPICAL GRADE BEAM REINF. ELEVATION
3/4" = 1'-0"

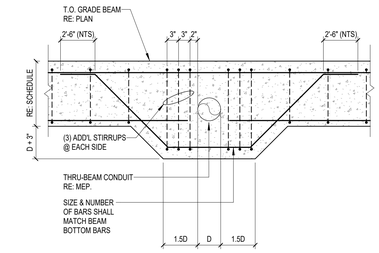


2 TYPICAL GRADE BEAM REINF. AT INTERSECTION
3/4" = 1'-0"

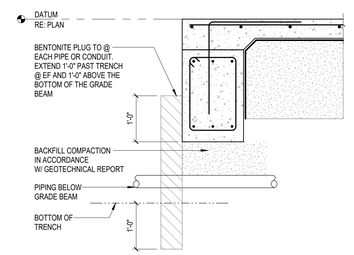


NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEK PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: PLACE JOINT MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

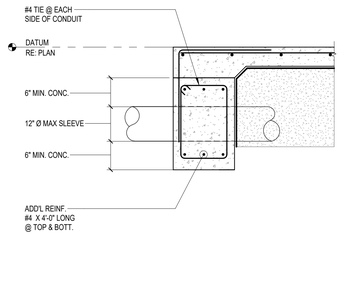
3 TYPICAL GRADE BEAM CONSTRUCTION JOINT
3/4" = 1'-0"



4 TYPICAL THRU. BEAM CONDUIT
3/4" = 1'-0"

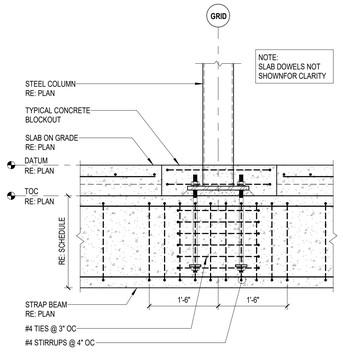


CONDUIT BELOW GRADE BEAM

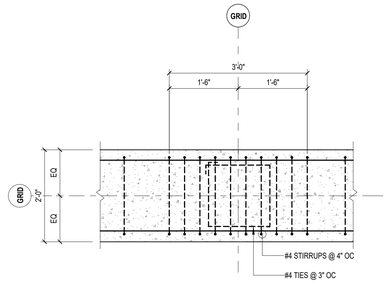


CONDUIT BELOW THROUGH GRADE BEAM

5 TYPICAL CONDITION AT CONDUIT
3/4" = 1'-0"

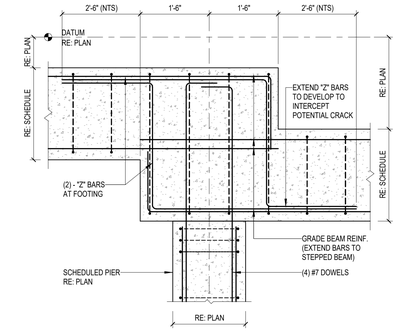


ELEVATION

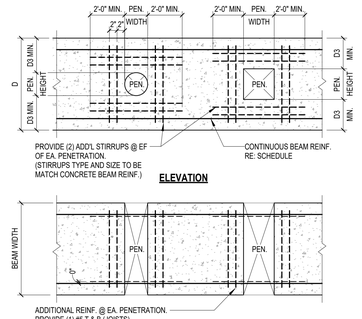


PLAN

6 TYPICAL STRAP BEAM REINF. AT COLUMN
3/4" = 1'-0"



7 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



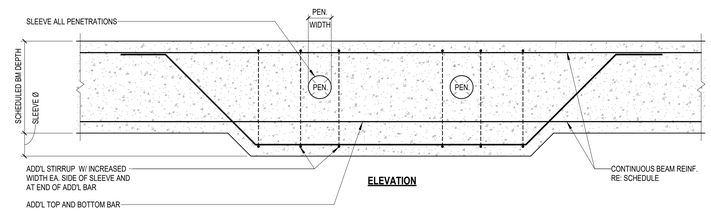
ELEVATION

PLAN

NOTES:

1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN THEIR CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS AND JOISTS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
3. "D" DENOTES THE DEPTH OF BEAM OR JOIST.
4. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   A. FOR BEAMS (AND JOIST) NOT SUPPORTING INTERSECTING BEAMS (OR JOISTS): LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   B. FOR BEAMS (OR JOISTS) SUPPORTING INTERSECTING BEAMS (OR JOISTS): CHECK WITH STRUCTURAL ENGINEER.
   C. FOR LOCATIONS AND /OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

8 HORIZONTAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"



ELEVATION

NOTES:

1. REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH M.E.P. CONTRACTORS. REQUIRED SLEEVES MAY BE OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OR OFFSET, OR BEND REINFORCING.
3. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 2". IF OUTSIDE DIAMETER OF IS GREATER THAN 2", THE WIDTH OF THE BEAM SHALL BE INCREASED BY THE PENETRATION DIMENSION (6" MAX). THE INCREASED WIDTH HALL EXTEND 1'-6" ON EACH SIDE OF THE PENETRATION. ADD (1) ADDITIONAL TOP AND BOTTOM BAR AND ADD'L STIRRUPS AT THICKENED PORTION. NO REBAR SHALL BE CUT TO ALLOW FOR THE PENETRATION
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

9 VERTICAL PENETRATION THROUGH CONCRETE BEAM
3/4" = 1'-0"

Dally + ASSOCIATES STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
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t 713 337 8881
Texas Registered Engineering Firm F-003426
D + A PROJECT 24-206-00

Kirksey ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
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FRED DALLY 90904 REGISTERED ENGINEER
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL GB AND CF DETAILS

SHEET NUMBER
S4.02

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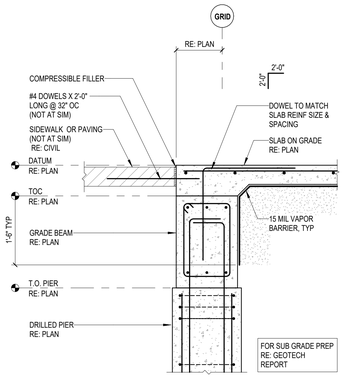
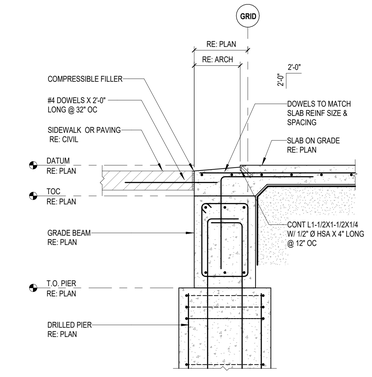
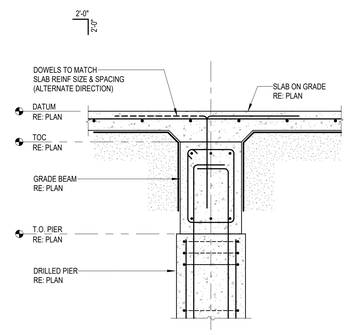
9/16/2025 8:28:16 AM
Autodesk Docs://2023306 Willowridge High School/24-206 FBISD Willowridge HS Addn & Reno_STRUCT_R24.rvt



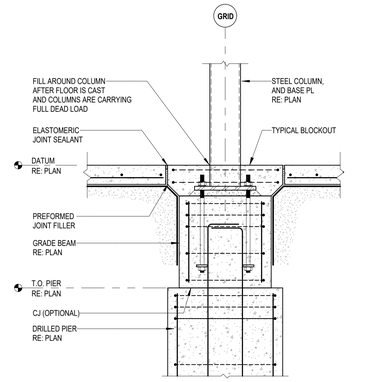
1 FOUNDATION SECTION
3/4" = 1'-0"



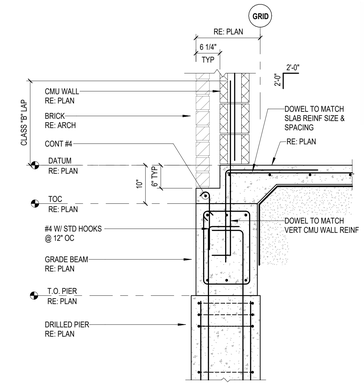
2 FOUNDATION SECTION
3/4" = 1'-0"



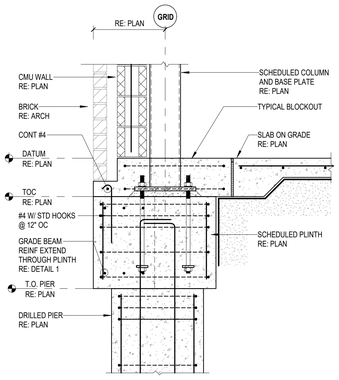
3 FOUNDATION SECTION
3/4" = 1'-0"



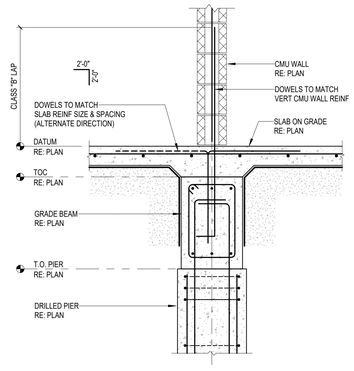
4 FOUNDATION SECTION
3/4" = 1'-0"



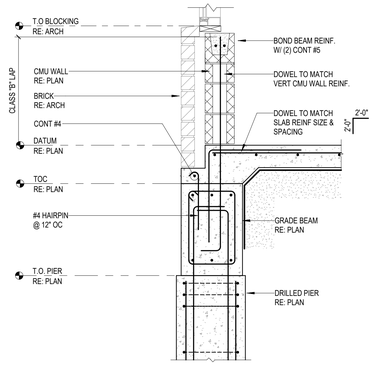
5 FOUNDATION SECTION
3/4" = 1'-0"



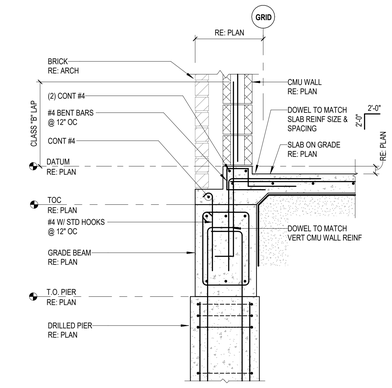
6 FOUNDATION SECTION
3/4" = 1'-0"



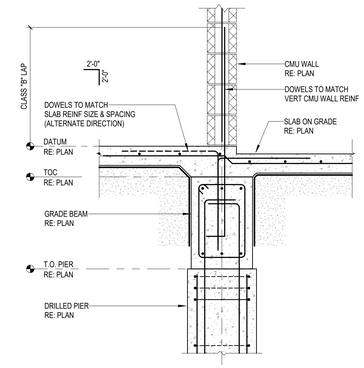
7 FOUNDATION SECTION
3/4" = 1'-0"



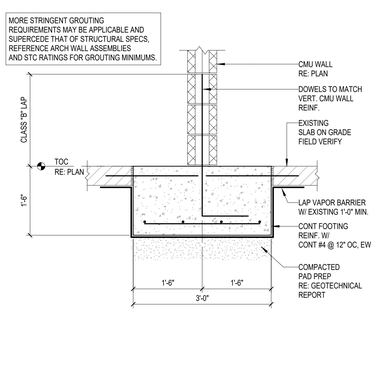
8 FOUNDATION SECTION
3/4" = 1'-0"



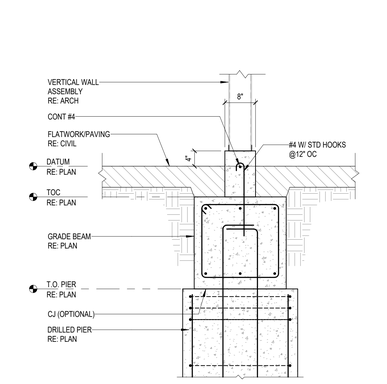
9 SECTION AT EXTERIOR DEPRESSION (CMU)
3/4" = 1'-0"



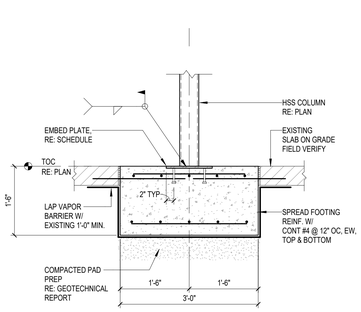
10 SECTION AT INTERIOR DEPRESSION (CMU)
3/4" = 1'-0"



11 EXISTING FOUNDATION WITH NEW CMU (15'-0" MAX)
3/4" = 1'-0"



12 FOUNDATION SECTION
3/4" = 1'-0"



13 EXISTING SECTION AT NEW COLUMN
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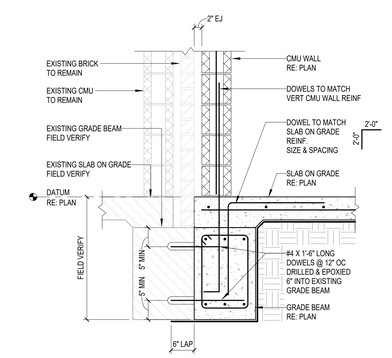

14 EXISTING FOUNDATION SECTION
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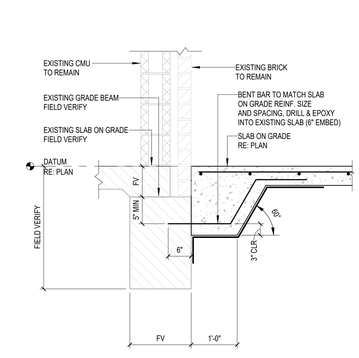

15 EXISTING FOUNDATION SECTION
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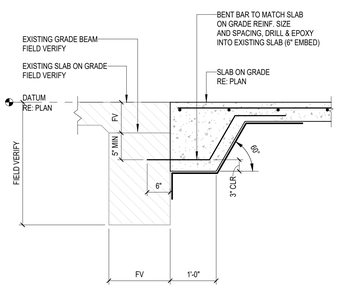

16 EXISTING FOUNDATION SECTION
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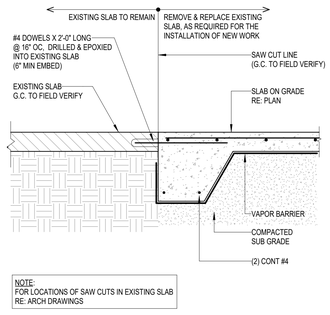

17 EXISTING FOUNDATION SECTION
3/4" = 1'-0"

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Texas Registered Engineering Firm F-003426
D + A PROJECT 24-206-00

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FRED DALLY 90904 REGISTERED ARCHITECT
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
S4.03

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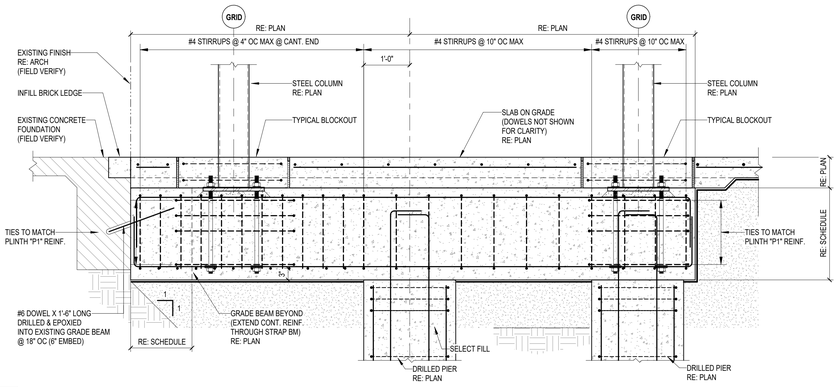
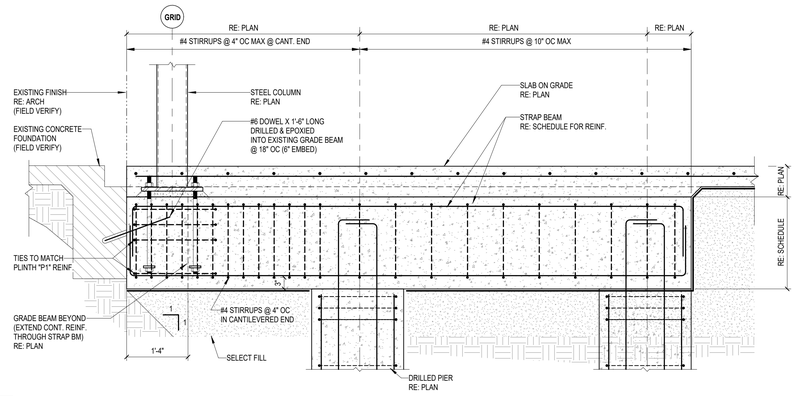
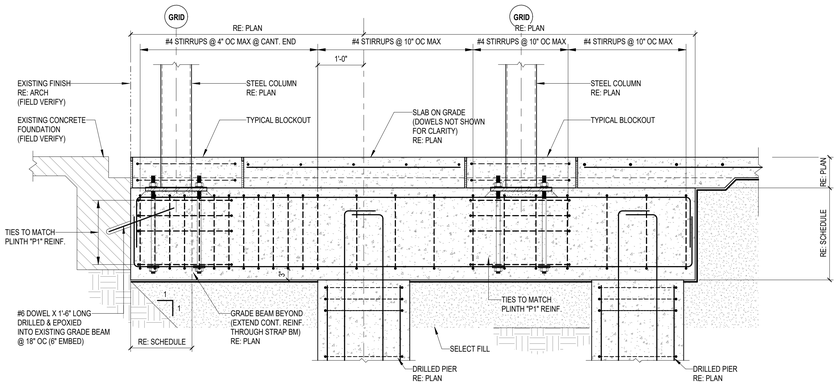


1 STRAP BEAM SECTION
3/4" = 1'-0"



2 STRAP BEAM SECTION
3/4" = 1'-0"



3 STRAP BEAM SECTION
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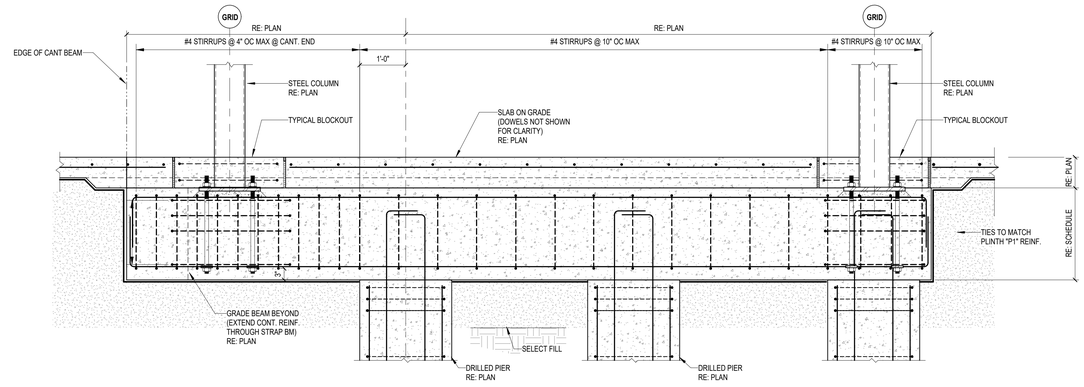
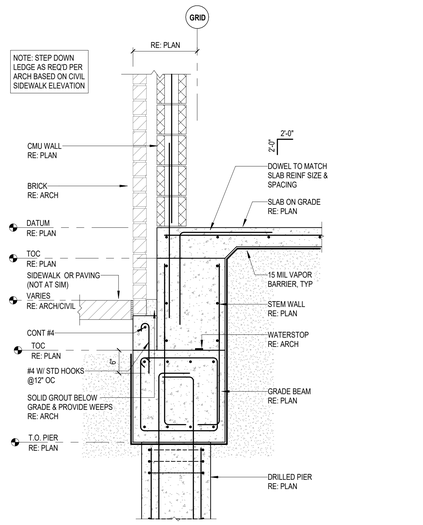
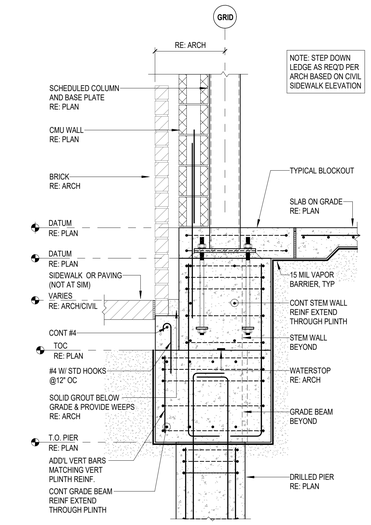


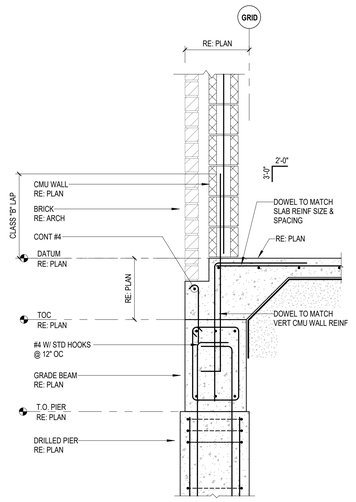
4 STRAP BEAM SECTION
3/4" = 1'-0"



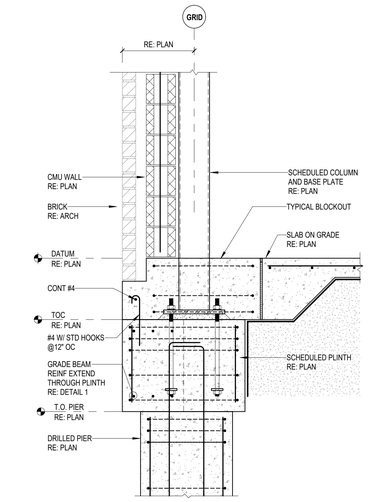
5 SECTION AT BRICK LEDGE
3/4" = 1'-0"



6 SECTION AT COLUMN
3/4" = 1'-0"



7 FOUNDATION SECTION
3/4" = 1'-0"



8 FOUNDATION SECTION
3/4" = 1'-0"

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FRED DALLY
90904
REGISTERED
PROFESSIONAL
ENGINEER
09/16/2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
S4.04

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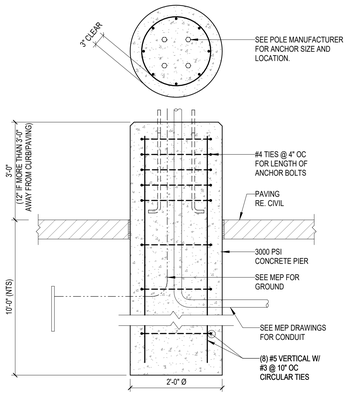
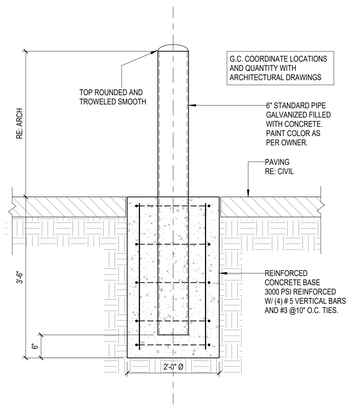


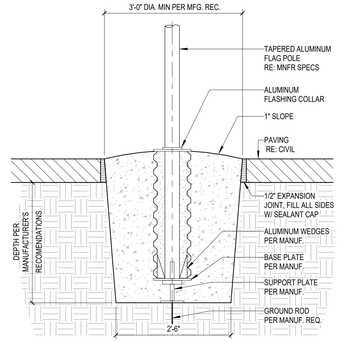
1 TYPICAL LIGHT POLE DETAIL (30'-0" TALL MAX)

3/4" = 1'-0"



2 TYPICAL BOLLARD

3/4" = 1'-0"



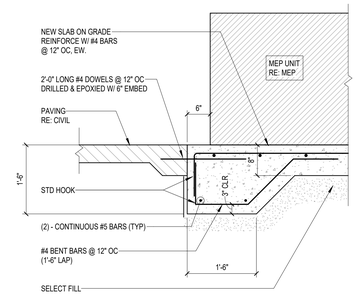
3 TYPICAL FLAG POLE

3/4" = 1'-0"

NOTE:

1. SEE ARCHITECTURAL SITE PLAN FOR PAD LOCATION AND OVERALL DIMENSIONS.

2. G.C. TO VERIFY ALL PAD DIMENSIONS W/ MEP DRAWINGS PRIOR TO CONSTRUCTION.

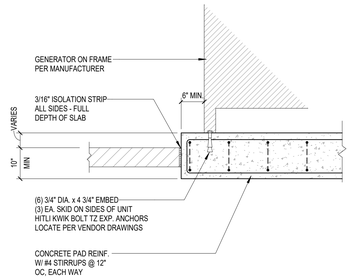


4 TYPICAL MEP UNIT PAD

3/4" = 1'-0"

1. GENERAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE LOCATIONS OF HOUSEKEEPING PADS, AND TO PROVIDE WHERE REQUIRED. IF NON ARE SHOWN ON THE STRUCTURAL DRAWINGS.

2. COORDINATE ALL PAD DIMENSIONS, AND VERIFY ADEQUACY WITH THE MECHANICAL ENGINEER AND THE EQUIPMENT REQUIREMENTS.



5 TYPICAL GENERATOR PAD

3/4" = 1'-0"

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Texas Registered Engineering Firm F-003426
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SITE DETAILS

SHEET NUMBER

S4.05

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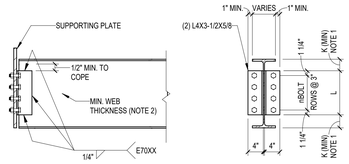


"n"	L (INCHES)	ALLOWABLE BOLT CAPACITY (KIPS)	ALLOWABLE WELD CAPACITY (KIPS)
2	5 1/2"	37	48
3	8 1/2"	56	77
4	11 1/2"	74	100
5	14 1/2"	93	122
6	17 1/2"	111	143
7	20 1/2"	130	160
8	23 1/2"	148	180
9	26 1/2"	167	198
10	29 1/2"	186	215

NOTES:

1. REFER TO AISC - MANUAL OF STEEL CONSTRUCTION (SECTION 1).

2. ALLOWABLE WELD CAPACITY IS BASED UPON A BEAM WEB THICKNESS OF 1/2" FOR A36 MATERIAL AND 3/8" FOR ASTM A572, GRADE 50 MATERIAL. REDUCE THIS CAPACITY PROPORTIONALLY FOR A LESSER WEB THICKNESS.

3. THE SUPPORTING PLATE CAPACITY SHALL BE BASED UPON AN ALLOWABLE LOAD PER BOLT OF 65 KIPS PER INCH OF PLATE THICKNESS FOR A36 MATERIAL OR 73 KIPS PER INCH OF PLATE THICKNESS FOR ASTM A572, GRADE 50 MATERIAL. FOR BEAM CONNECTIONS ON TWO SIDES, THE SUM OF THE LOADS PER BOLT SHALL BE CONSIDERED.

4. FOR COPED BEAM CONNECTIONS, THE CAPACITY OF THE NET SHEAR AREA OF THE WEB SHALL BE VERIFIED.

5. THE CAPACITY OF THE CONNECTION SHALL BE THE LESSER VALUE OF THE ALLOWABLE BOLT CAPACITY, ALLOWABLE WELD CAPACITY, SUPPORTING PLATE CAPACITY OR THE WEB NET SHEAR AREA CAPACITY.

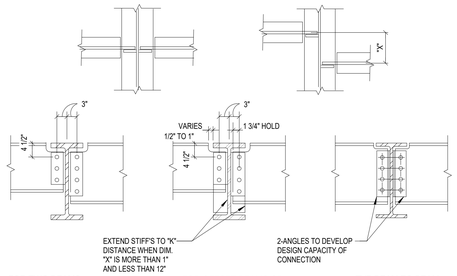
6. THE MINIMUM NUMBER OF ROWS OF BOLTS SHALL BE AS FOLLOWS:

W10 & W12	2 ROWS
W14 & W16	3 ROWS
W18, W21, & W24	4 ROWS
W27 & W30	5 ROWS
W33 & W36	6 ROWS

3/4" Ø A325 BOLTS - BEARING CONN. - STANDARD HOLES

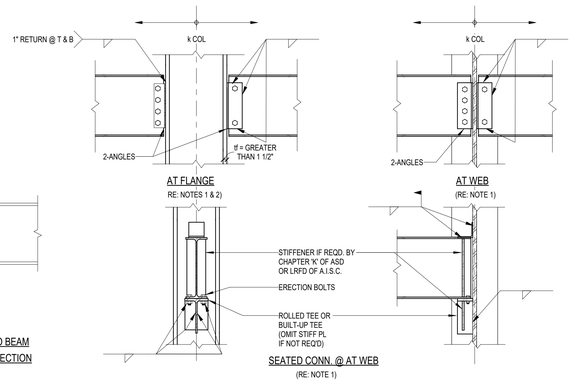
1 TYPICAL AISC SHEAR CONNECTORS
3/4" = 1'-0"

NOTES:-
1. BOTH THE WELDS & THE BOLTS TO BE DESIGNED FOR MOMENT CAUSED BY ECCENTRICITY BETWEEN WELD GROUP & BOLT CENTERLINE.
2. END REACTION TO BE DETERMINED PER GENERAL NOTES SHEET OR AS SHOWN ON PLANS.



FOR TWO BEAMS WHEN OPPOSITE | FOR OFFSET BEAMS OR FOR BEAM ON ONE SIDE | TYP BEAM TO BEAM SHEAR CONNECTION

2 TYPICAL WF BEAM TO WF BEAM CONNECTION
3/4" = 1'-0"



NOTES:

1. CONN. TO BE ADEQUATE FOR AXIAL BRACING FORCE = 1% OF WORKING COLUMN LOAD IN ADDITION TO END REACTION DETERMINED PER STEEL GENERAL NOTES SHEET (LIN.O. ON DWG.) ALLOWABLE STRESS CAN BE INCREASED 1/3 FOR THIS CONDITION. COLUMN LOAD WILL BE FURNISHED OR CAN BE DETERMINED FROM AISC MANUAL FOR FLOOR TO FLOOR HEIGHT.

2. SINGLE PLATE CONNECTION IS ALLOWED ONLY WHEN AXIAL FORCE BRACING THE COLUMN IS LESS THAN 20 KIPS. THE DESIGN OF SINGLE PLATE CONNECTION WITH AXIAL FORCE LESS THAN 20 KIPS, SHOULD BE SUBSTANTIATED BY CALCULATION AND IS SUBJECT TO ENGINEER'S APPROVAL.

3/4" Ø A325 BOLTS - BEARING CONN. - STANDARD HOLES

3 TYPICAL WF BEAM TO COL
N.T.S.

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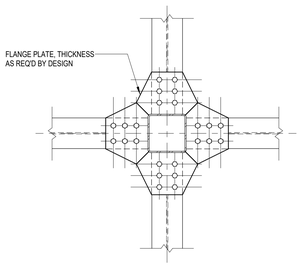
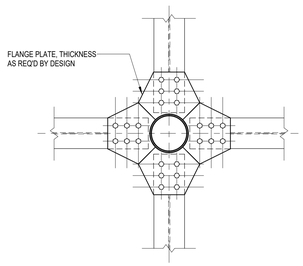
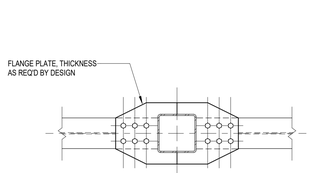


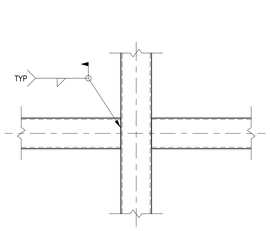
(4) WIDE FLANGE BEAMS TO HSS COL - PLAN



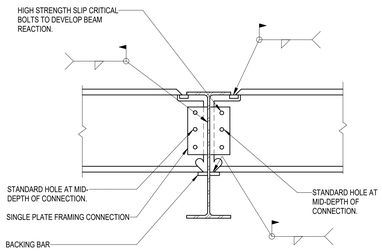
(4) WIDE FLANGE BEAMS TO ROUND HSS COL - PLAN



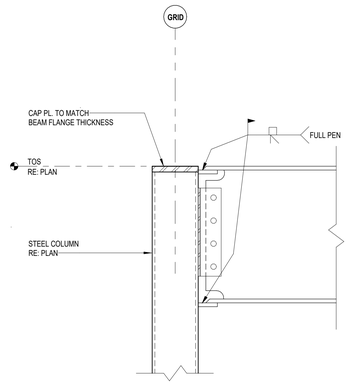
(2) WIDE FLANGE BEAMS TO HSS COL - PLAN



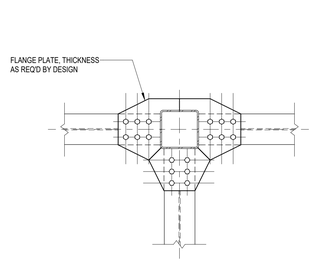
TYPICAL HSS BEAM TO HSS COL - SECTION



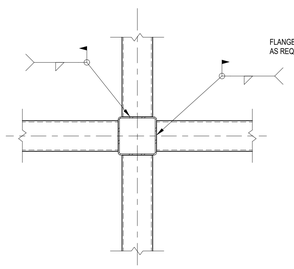
BEAM TO BEAM MOMENT CONNECTION BEAMS OF THE SAME NOMINAL DEPTH - SECTION



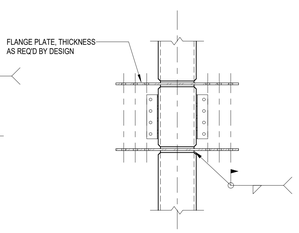
5 TYPICAL MOMENT CONNECTION (DIRECT WELDED)
1 1/2" = 1'-0"



(3) WIDE FLANGE BEAMS TO HSS COL - PLAN

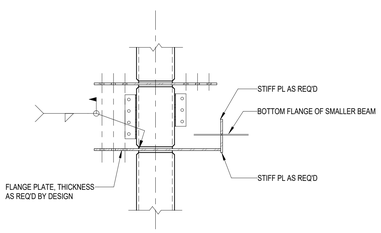


TYPICAL HSS BEAM TO HSS COL - PLAN



WIDE FLANGE BEAMS NOT SHOWN FOR CLARITY

WIDE FLANGE BEAMS TO HSS COL - SECTION



WIDE FLANGE BEAMS NOT SHOWN FOR CLARITY

WIDE FLANGE BEAMS W/ TWO DIFF BEAM SIZES TO HSS COL - SECTION

NOTES:

1. BOLTS IN WEB CONNECTION SHALL BE SNUG TIGHTENED PRIOR TO WELDING OF FLANGES.

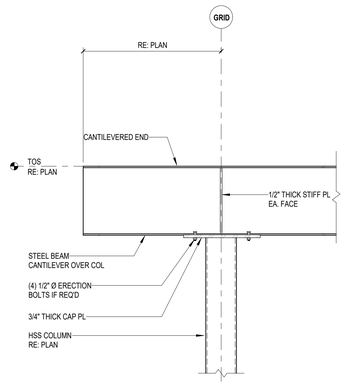
2. SLIP-CRITICAL BOLTED CONNECTION IN WEB USING A325 BOLTS IN HORIZONTAL SHORT-SLOTTED HOLES U.N.O. RESISTANCE BY BOLTS TO SHEAR SHALL BE BY FRICTION, PROPORTIONED USING THE STANDARD HOLE VALUE ON A CLASS "A" SURFACE.

3. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.

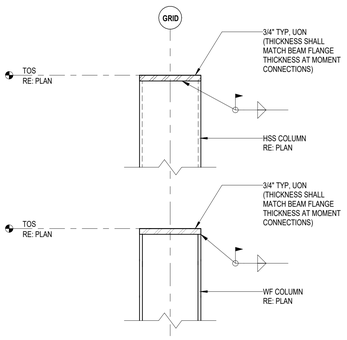
4. PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AISC LRFD MANUAL WHERE APPLICABLE.

5. IF MOMENT IS SHOWN ON DRAWINGS, PARTIAL PENETRATION WELD TO DEVELOP MOMENT CAN BE USED IN LIEU OF CJP WELD. FOR THIS CASE, WELD SHALL BE REQUIRED TO DEVELOP THE BEAM FLANGE FORCE COMPUTED AS FOLLOWS: Pu = (Mu)/(0.95D).
WHERE: Mu = DESIGN MOMENT (KIP-IN).
D = BEAM DEPTH (INCHES).
Pu = BEAM FLANGE FORCE (KIPS).

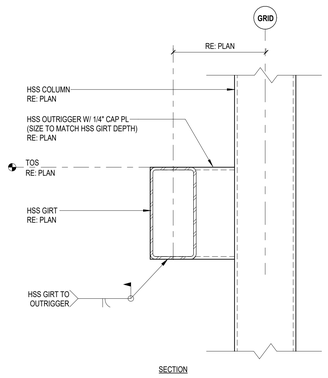
CONNECTIONS SHOWN SHOWN HERE ARE FOR BIDDING PURPOSES ONLY. DESIGN AND DETAILS OF CONNECTIONS SHALL BE BY THE STEEL FABRICATOR AND SHALL FOLLOW AISC APPROVED MOMENT CONNECTIONS



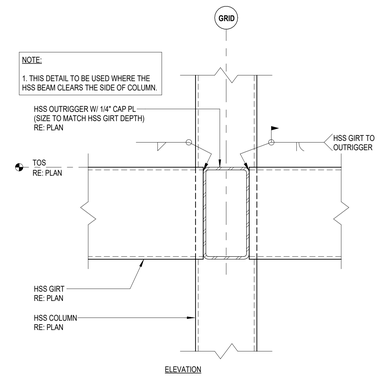
6 TYPICAL CANTILEVERED STEEL BEAM
3/4" = 1'-0"



7 COLUMN CAP PLATE
1 1/2" = 1'-0"



SECTION



ELEVATION

8 TYPICAL OFFSET HSS CONNECTION
1 1/2" = 1'-0"

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL STEEL DETAILS

SHEET NUMBER
S5.01

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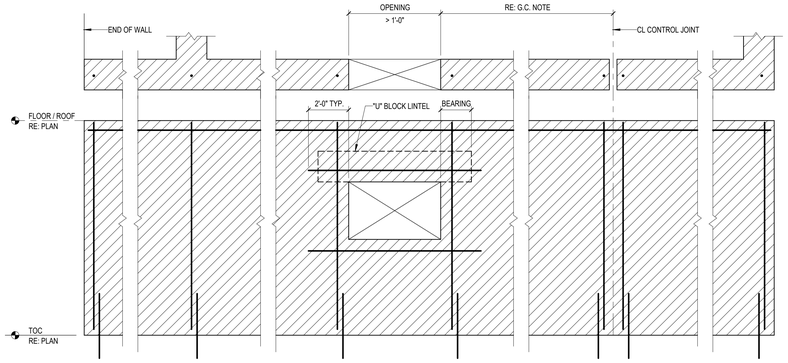
9/16/2025 8:28:29 AM Autodesk Docs://2023306 Willowridge High School/24-206 FBISD Willowridge HS Addn & Renn_STRUCT_R24.rvt



TYPICAL REINFORCED MASONRY NOTES

TYPICAL HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE AS NOTED ON THE PLAN SHEET. ADDITIONAL REINFORCING SHALL BE AS FOLLOWS

1. (2) #5 VERTICAL REINFORCING BARS SHALL BE PROVIDED, CONTINUOUSLY FROM SUPPORT TO SUPPORT (FINISHED FLOOR TO ROOF) AT:

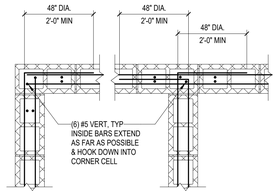
   A. WITHIN 8" OF EACH END OF WALL
   B. EACH WALL INTERSECTION
   C. WITHIN 16" OF EACH SIDE OF A MASONRY OPENING .
   D. WITHIN 8" OF EACH SIDE OF A MASONRY MOVEMENT JOINTS
   E. EACH CORNER OF THE BUILDING
   F. AT 32" OC, FULL HEIGHT

2. (2) #5 HORIZONTAL REINFORCING BARS SHALL BE PROVIDED AT:

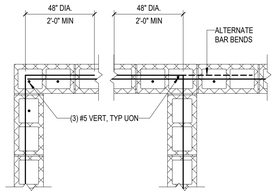
   A. TOP AND BOTTOM OF MASONRY OPENINGS
   B. FLOOR AND ROOF LEVELS, CONTINUOUS
   C. WITHIN 16" OF THE TOP OF MASONRY WALLS, CONTINUOUS.
   D. 8'-0" OC

GC NOTE:
DO NOT LOCATE CONTROL JOINTS WITHIN HALF THE LENGTH OF THE LINTEL (2'-0" MIN) ADJACENT TO THE ROUGH OPENING.

ALL HORIZONTAL REINFORCING WILL BE CONTINUOUS ACROSS CONTROL JOINTS



DOUBLE CURTAIN



SINGLE CURTAIN

Dally + ASSOCIATES
STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm F-003426
D + A PROJECT 24-206-00

Kirksey ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
kirksey.com

FRED DALLY 90904 REGISTERED ARCHITECT STATE OF TEXAS
09/16/2025

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

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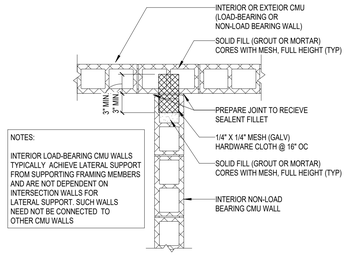
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

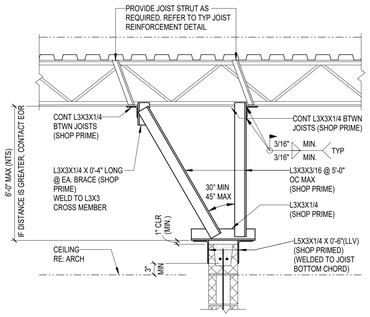
1 TYPICAL CMU WALL ELEVATION
3/4" = 1'-0"



NOTES:

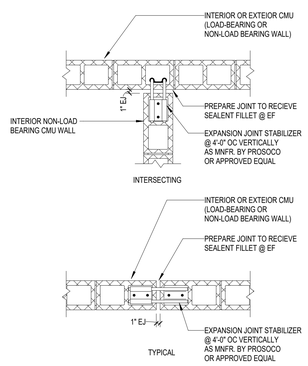
INTERIOR LOAD-BEARING CMU WALLS TYPICALLY ACHIEVE LATERAL SUPPORT FROM SUPPORTING FRAMING MEMBERS AND ARE NOT DEPENDENT ON INTERSECTION WALLS FOR LATERAL SUPPORT. SUCH WALLS NEED NOT BE CONNECTED TO OTHER CMU WALLS

2 TYPICAL CMU WALL INTERSECTION
3/4" = 1'-0"



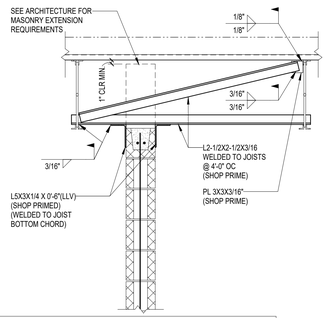
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

3 TYPICAL CMU EXPANSION JOINT
3/4" = 1'-0"



4 TYPICAL CMU EXPANSION JOINT
3/4" = 1'-0"

5 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

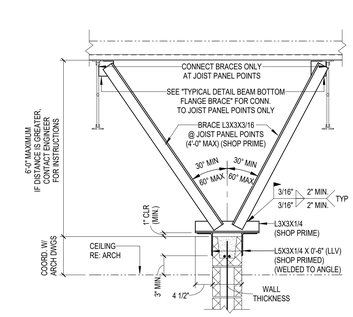


NOTE:

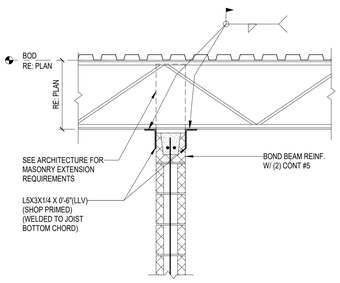
1. THIS DETAIL IS TO BE USED ONLY IF INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

6 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"

7 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



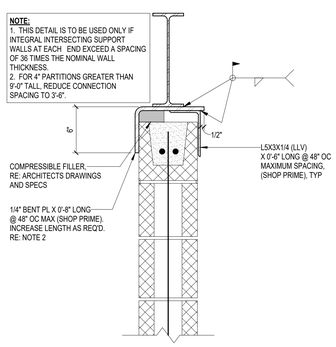
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.



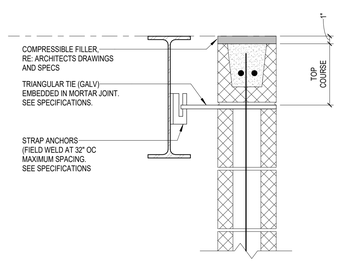
NOTE:

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.

8 TYPICAL NON-LOAD BEARING CMU BRACING
3/4" = 1'-0"



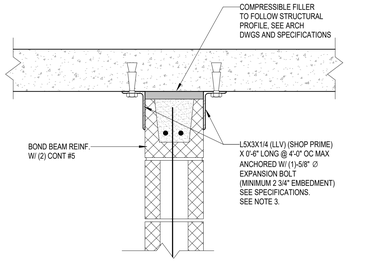
9 TYPICAL NON-LOAD BEARING CMU BRACING
1 1/2" = 1'-0"



NOTE:

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.

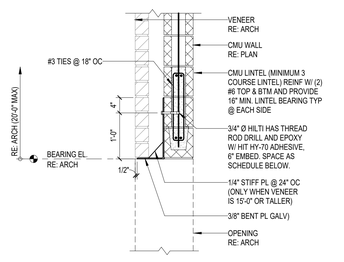
10 TYPICAL NON-LOAD BEARING CMU BRACING
1 1/2" = 1'-0"



NOTE:

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.
2. DO NOT USE THIS DETAIL AT POST-TENSIONED SLABS.
3. FOR 4" PARTITIONS GREATER THAN 9'-0" TALL, REDUCE CONNECTION SPACING TO 3'-6".

11 TYPICAL NON-LOAD BEARING CMU BRACING
1 1/2" = 1'-0"

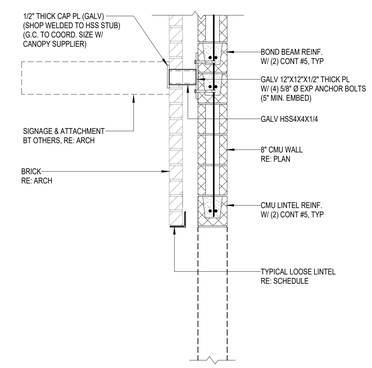


NOTE:
1. THIS DETAIL ONLY APPLIES AT 8, 10 OR 12" THICK CMU. IT DOES NOT APPLY AT 4" CMU BACKUP.

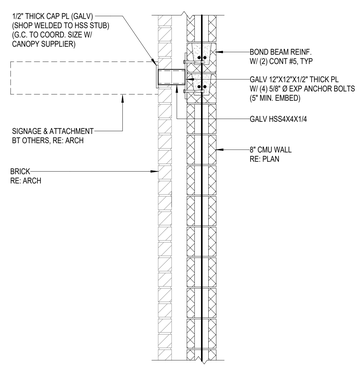
2. PROVIDE FULL HEIGHT VERTICAL CONTROL JOINT IN MASONRY VENEER AT EACH SIDE OF OPENING IN THE CMU WALL

ANCHOR SPACING SCHEDULE	
VENEER HEIGHT	ANCHOR SPACING
10'-0" OR LESS	24" OC
10'-1" TO 15'-0"	16" OC
15'-1" TO 18'-0"	8" OC

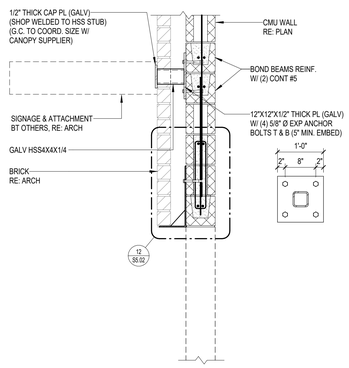
12 CMU BRICK LINTEL
3/4" = 1'-0"



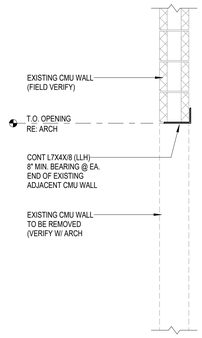
13 TYPICAL CMU @ CANOPY
3/4" = 1'-0"



14 TYPICAL CMU @ CANOPY
3/4" = 1'-0"



15 TYPICAL CMU @ CANOPY
3/4" = 1'-0"



16 EXISTING CMU WITH OPENING
3/4" = 1'-0"

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL CMU WALL DETAILS

SHEET NUMBER
S5.02

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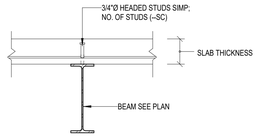
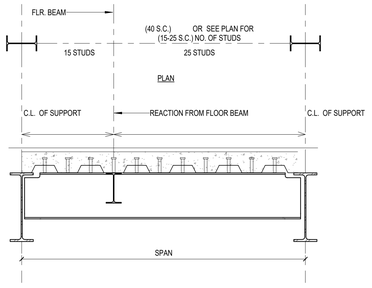
Autodesk Docs://2023306 Willowridge High School/24-206 FBISD Willowridge HS Addn & Renv_STRUCT_R24.rvt

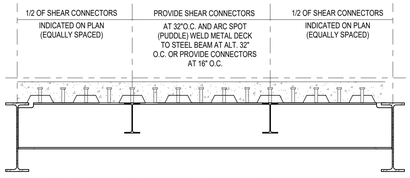
FIN. STUD LENGTH	SLAB THICKNESS 't'
8"	't' > 10"
5 1/2"	6 1/2" < 't' < 10"
5"	6" < 't' < 6 1/2"
4 1/2"	5 1/4"< 't' < 6"



SECTION

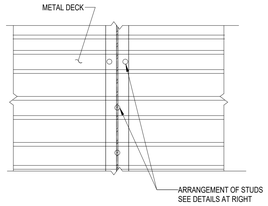


ELEVATION

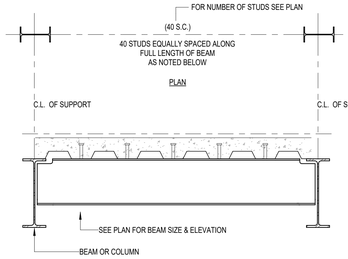


ABOVE PLACEMENT OF SHEAR CONNECTORS IS APPLICABLE WHERE ASTERISK (*) IS SHOWN ON PLAN WITH SHEAR CONNECTOR QUANTITIES.

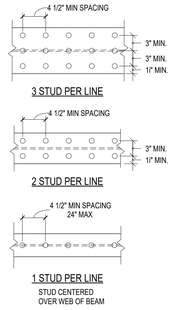
SPECIAL PLACEMENT OF SHEAR CONNECTORS



PLAN



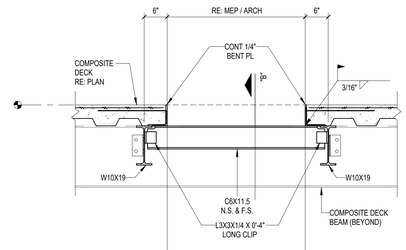
ELEVATION



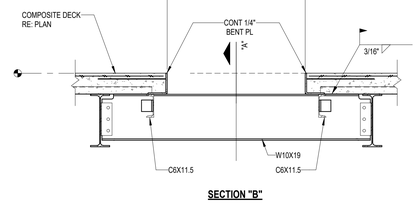
WELDED SHEAR STUD NOTES:

1. ALL SHEAR STUDS SHALL BE 3/4"Ø HEADED STUDS WITH HEIGHT OF STUDS AS SHOWN ABOVE.
2. ONE STUD PER TROUGH SHALL BE PLACED STARTING FROM BOTH ENDS OF BEAM. WHEN STUDS FILL EVERY TROUGH OF METAL DECK REMAINING STUDS SHALL BE PLACED IN TWO OR MORE ROWS PER TROUGH STARTING FROM EACH END OF BEAM OR GIRDER.
3. ALL BEAMS AND GIRDERS, NOT PART OF LATERAL LOAD RESISTING SYSTEM, SUPPORTING METAL DECK WITH ALL CONCRETE FILL SHALL HAVE THE STUDS AT MAX. 24" O.C. ALL BEAMS PART OF LATERAL LOAD RESISTANCE SYSTEM, EITHER WIND GIRDER OR HORIZONTAL BRACING BEAM, SHALL HAVE STUDS 30" O.C. IN NON-SEISMIC AREA AND 18" O.C. IN SEISMIC AREA.

1 TYPICAL COMPOSITE DECK SHEAR STUDS
3/4" = 1'-0"



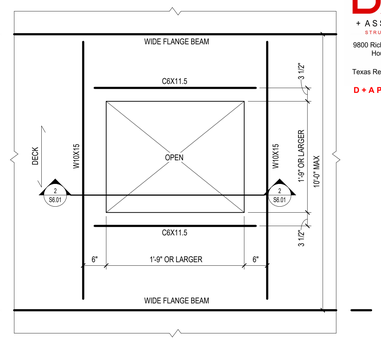
SECTION "A"



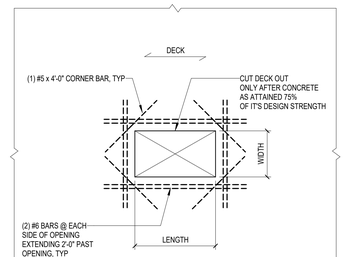
SECTION "B"

NOTES:
1. DETAIL SIM. FOR OPENINGS BETWEEN BEAMS.
2. APPLIES TO ALL OPENINGS WITH A DIMENSIONS GREATER THAN 12" BUT LESS THAN 30".
3. G.C. TO COORDINATE CURB REQUIREMENTS AROUND OPENINGS WITH ARCHITECTURAL DRAWINGS.

2 TYPICAL COMPOSITE DECK OPENING (SECTION)
3/4" = 1'-0"

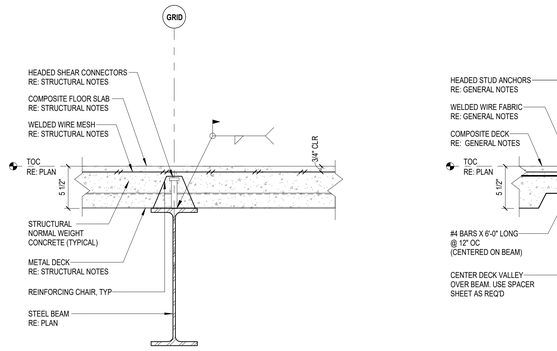


3 60A3 - Typical Composite Deck Opening (Plan)1
3/4" = 1'-0"

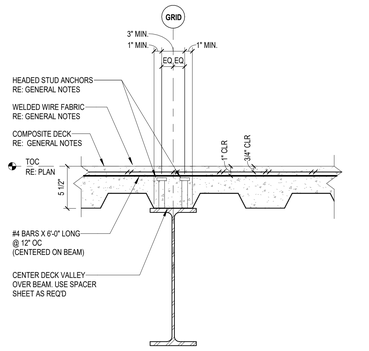


THIS DETAIL APPLIES TO OPENINGS WHERE THE "WIDTH" IS 10" TO 2'-0"
OMIT #6 BARS AT OPENINGS LESS THAN 10" IN WIDTH. OPENINGS GREATER THAN 2'-0" MUST BE FRAMED WITH STEEL BEAMS.

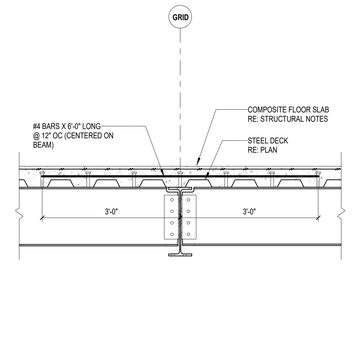
4 TYPICAL COMPOSITE DECK OPENING (REINFORCING)
3/4" = 1'-0"



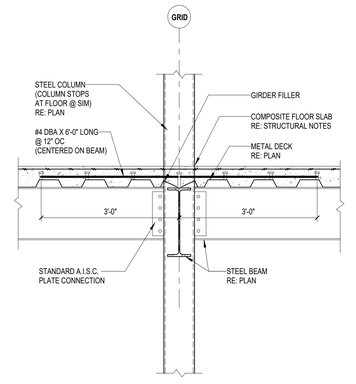
5 TYPICAL COMPOSITE DECK SHEAR STUD SECTION
1 1/2" = 1'-0"



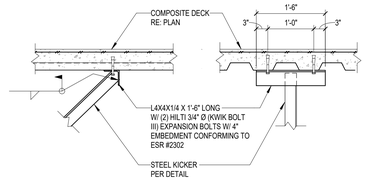
6 TYPICAL COMPOSITE DECK SHEAR STUD SECTION
1 1/2" = 1'-0"



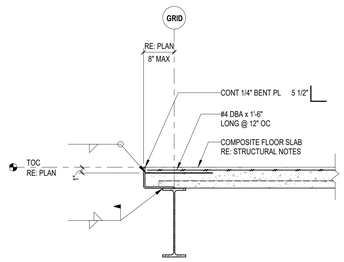
7 TYPICAL COMPOSITE DECK GIRDER REINFORCING
3/4" = 1'-0"



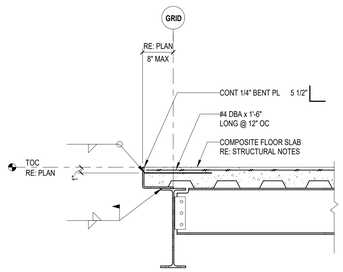
8 TYPICAL COMPOSITE DECK @ COL
3/4" = 1'-0"



9 TYPICAL COMPOSITE DECK KICKER
3/4" = 1'-0"



10 TYPICAL COMPOSITE DECK SECTION
3/4" = 1'-0"



11 TYPICAL COMPOSITE DECK SECTION
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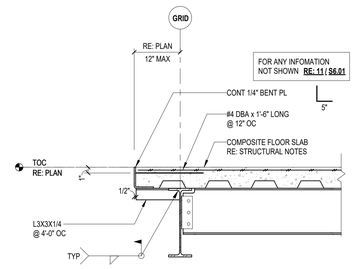

12 TYPICAL COMPOSITE DECK SECTION
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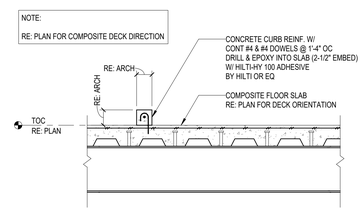

13 TYPICAL COMPOSITE DECK @ CURB
3/4" = 1'-0"

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t 713 337 8881
Texas Registered Engineering Firm F-003426
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Kirksey ARCHITECTURE
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09/16/2025

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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL COMPOSITE DECK DETAILS

SHEET NUMBER
S6.01

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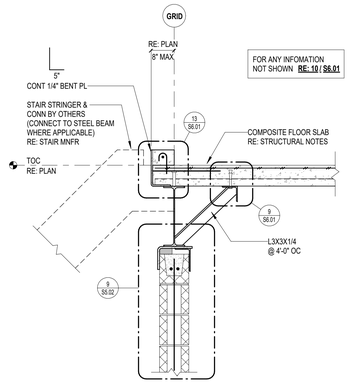
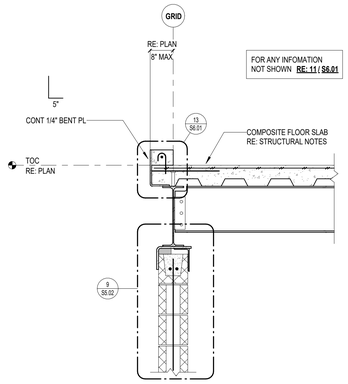
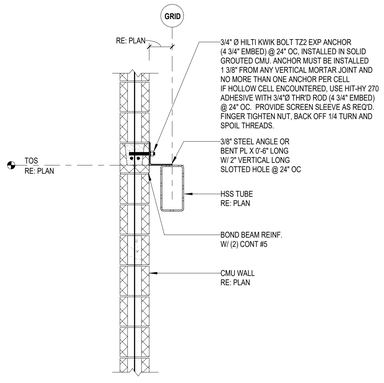


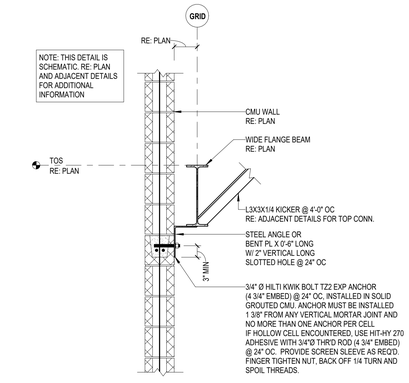
1 COMPOSITE DECK SECTION
3/4" = 1'-0"



2 COMPOSITE DECK SECTION
3/4" = 1'-0"



3 TYPICAL CMU CLIP @ HSS
3/4" = 1'-0"



4 TYPICAL CMU CLIP @ WF BEAM
3/4" = 1'-0"

5 COMPOSITE DECK SECTION
3/4" = 1'-0"

6 COMPOSITE DECK SECTION
3/4" = 1'-0"

7 EXISTING SECTION @ COMPOSITE DECK
3/4" = 1'-0"

8 COMPOSITE DECK/LOW ROOF SECTION
3/4" = 1'-0"

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09/16/2025

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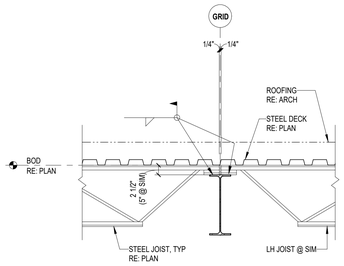
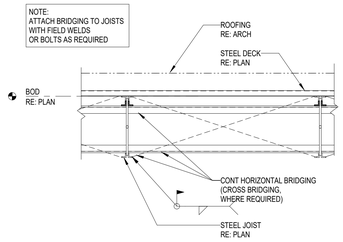
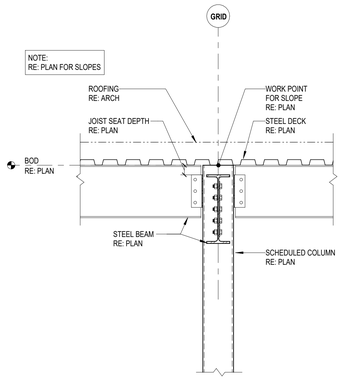


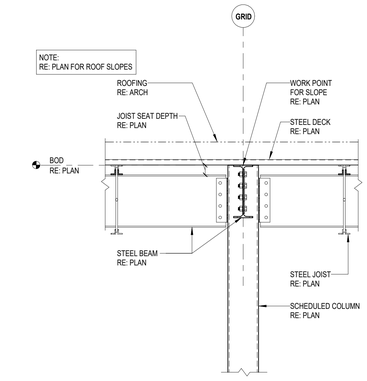
1 TYPICAL INTERIOR GIRDER
3/4" = 1'-0"



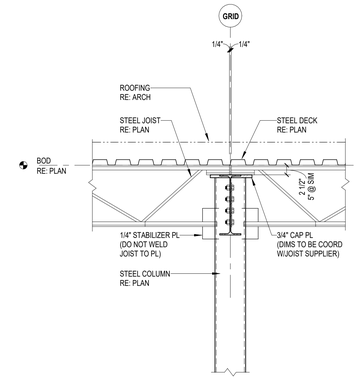
2 TYPICAL JOIST BRIDGING
3/4" = 1'-0"



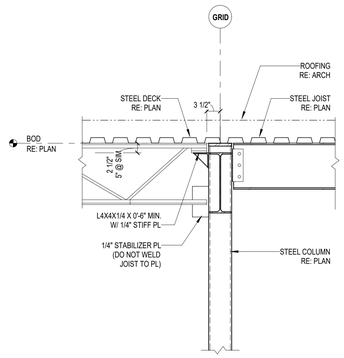
3 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



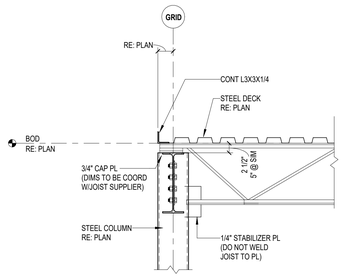
4 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



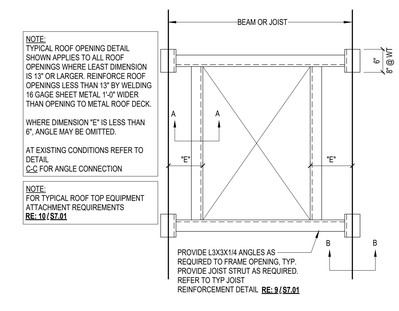
5 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



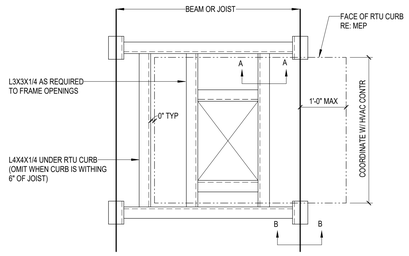
6 TYPICAL INTERIOR COLUMN
3/4" = 1'-0"



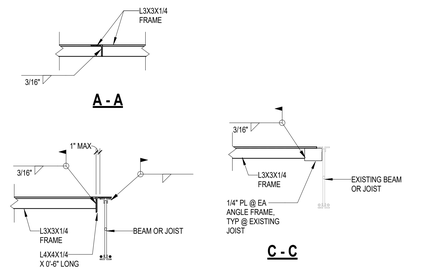
7 TYPICAL JOIST BEARING @ COL
3/4" = 1'-0"

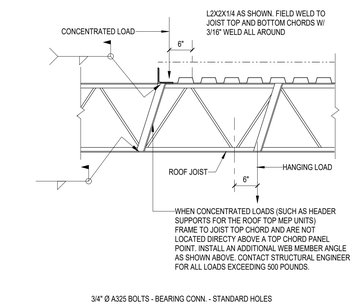


TYPICAL ROOF OPENING - PLAN VIEW



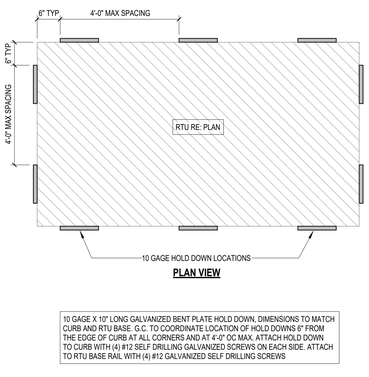
TYPICAL RTU SUPPORT DETAILS





9 TYPICAL OFFSET LOAD JOIST SUPPORT
3/4" = 1'-0"

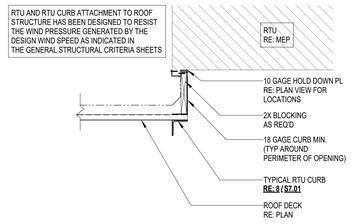
3/4" Ø A325 BOLTS - BEARING CONN. - STANDARD HOLES



PLAN VIEW

10 GAGE X 10" LONG GALVANIZED BENT PLATE HOLD DOWN, DIMENSIONS TO MATCH CURB AND RTU BASE. G.C. TO COORDINATE LOCATION OF HOLD DOWNS 6" FROM THE EDGE OF CURB AT ALL CORNERS AND AT 4'-0" OC MAX. ATTACH HOLD DOWN TO CURB WITH (4) #12 SELF DRILLING GALVANIZED SCREWS ON EACH SIDE. ATTACH TO RTU BASE RAIL WITH (4) #12 GALVANIZED SELF DRILLING SCREWS

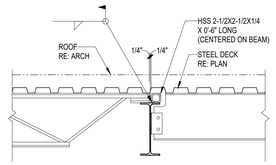
10 TYPICAL RTU EQUIPMENT ATTACHMENT
3/4" = 1'-0"



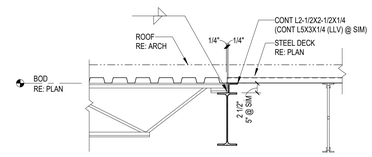
SECTION VIEW

CONCRETE STRUCTURE ATTACHMENT:
ATTACH CURB TO CONCRETE SLAB WITH 1/4" HILTI KWIK-CON II CONCRETE SCREW (1 3/4" EMBEDMENT. PLACE (2) SCREWS 4'-0" APART AT 4" FROM EACH CORNER OF CURB AND AT 18" OC MAX SPACING BETWEEN.

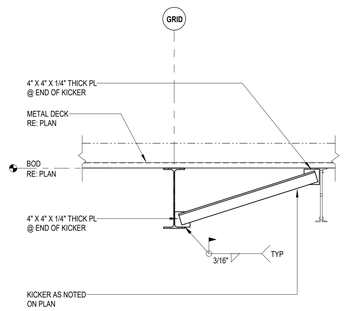
STEEL STRUCTURE ATTACHMENT:
ATTACH CURB TO STEEL STRUCTURE WITH #12 SELF TAPPING SCREWS, 1'-0" MIN. PENETRATION INTO STEEL. PLACE (2) SCREWS 4'-0" APART AT 4" FROM EACH CORNER OF CURB AND AT 18" OC MAX SPACING BETWEEN.



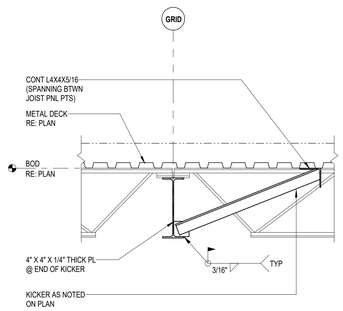
11 TYPICAL DECK SUPPORT @ FRAMING TRANSITION
3/4" = 1'-0"



12 TYPICAL DECK DIRECTION CHANGE
3/4" = 1'-0"

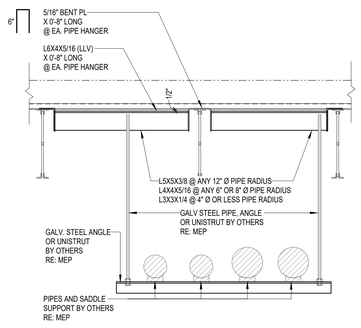


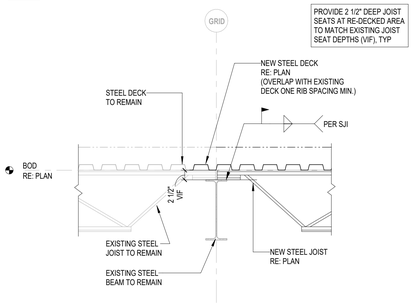
13 TYPICAL KICKER @ LATERAL WF BEAM
3/4" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR TO PROVIDE KICKERS AS NOTED ON PLAN PER PLAN NOTES.
2. THIS DETAIL APPLIES TO BOTH INTERIOR AND PERIMETER CONDITIONS.
3. THIS DETAIL IS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO ADJACENT DETAILS CUT ON PLAN FOR EXACT CONDITIONS.

14 TYPICAL PIPE LOAD SECTION
3/4" = 1'-0"





15 EXISTING SECTION @ NEW JOIST
3/4" = 1'-0"

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PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
TYPICAL STEEL ROOF DETAILS

SHEET NUMBER
S7.01

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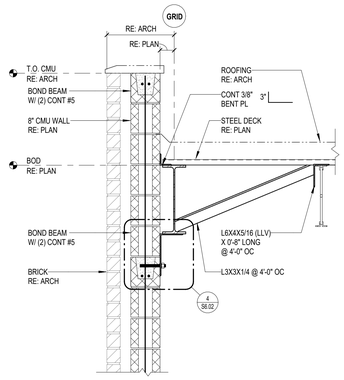
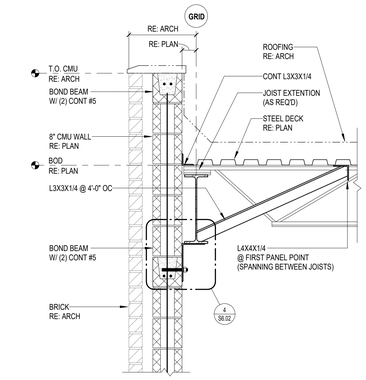
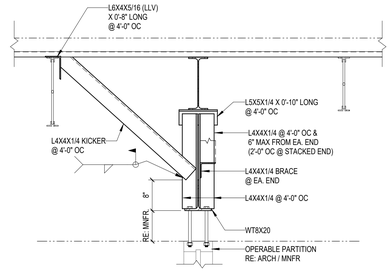


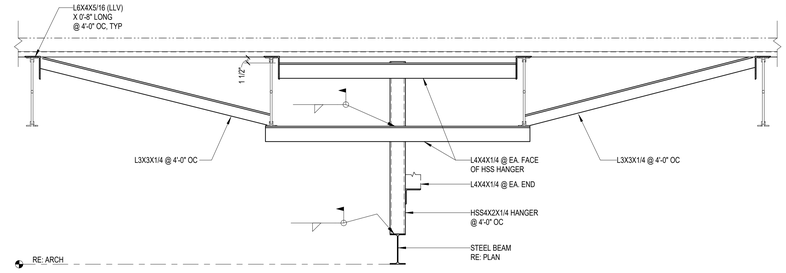
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION
3/4" = 1'-0"



3 MISC. STEEL @ OPERABLE PARTITION
3/4" = 1'-0"



4 MISC. STEEL @ CRANE HOIST
3/4" = 1'-0"

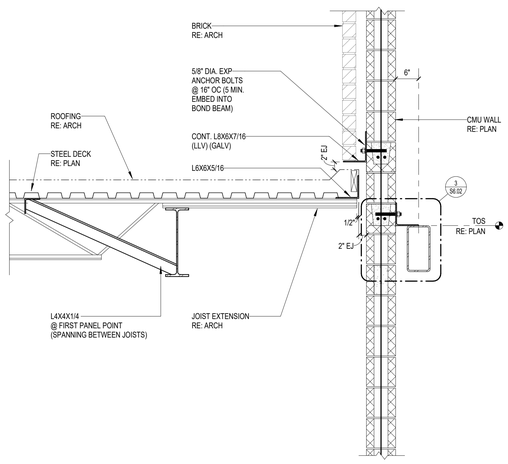
5 EXISTING SECTION AT LOW ROOF
3/4" = 1'-0"

6 LOW ROOF SECTION
3/4" = 1'-0"

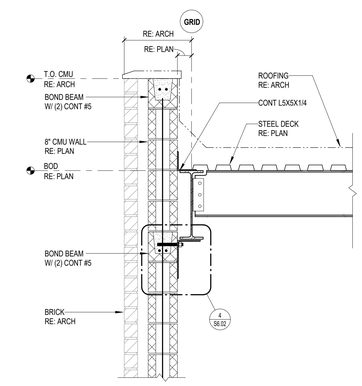
7 EXISTING SECTION AT LOW ROOF
3/4" = 1'-0"

8 EXISTING SECTION AT LOW ROOF
3/4" = 1'-0"

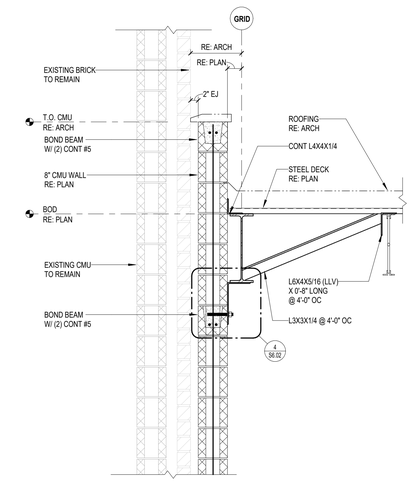
9 LOW ROOF SECTION
3/4" = 1'-0"



10 LOW ROOF SECTION
3/4" = 1'-0"



11 ROOF SECTION
3/4" = 1'-0"



12 ROOF SECTION
3/4" = 1'-0"

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STEEL ROOF DETAILS (PARAPET)

SHEET NUMBER
S7.02

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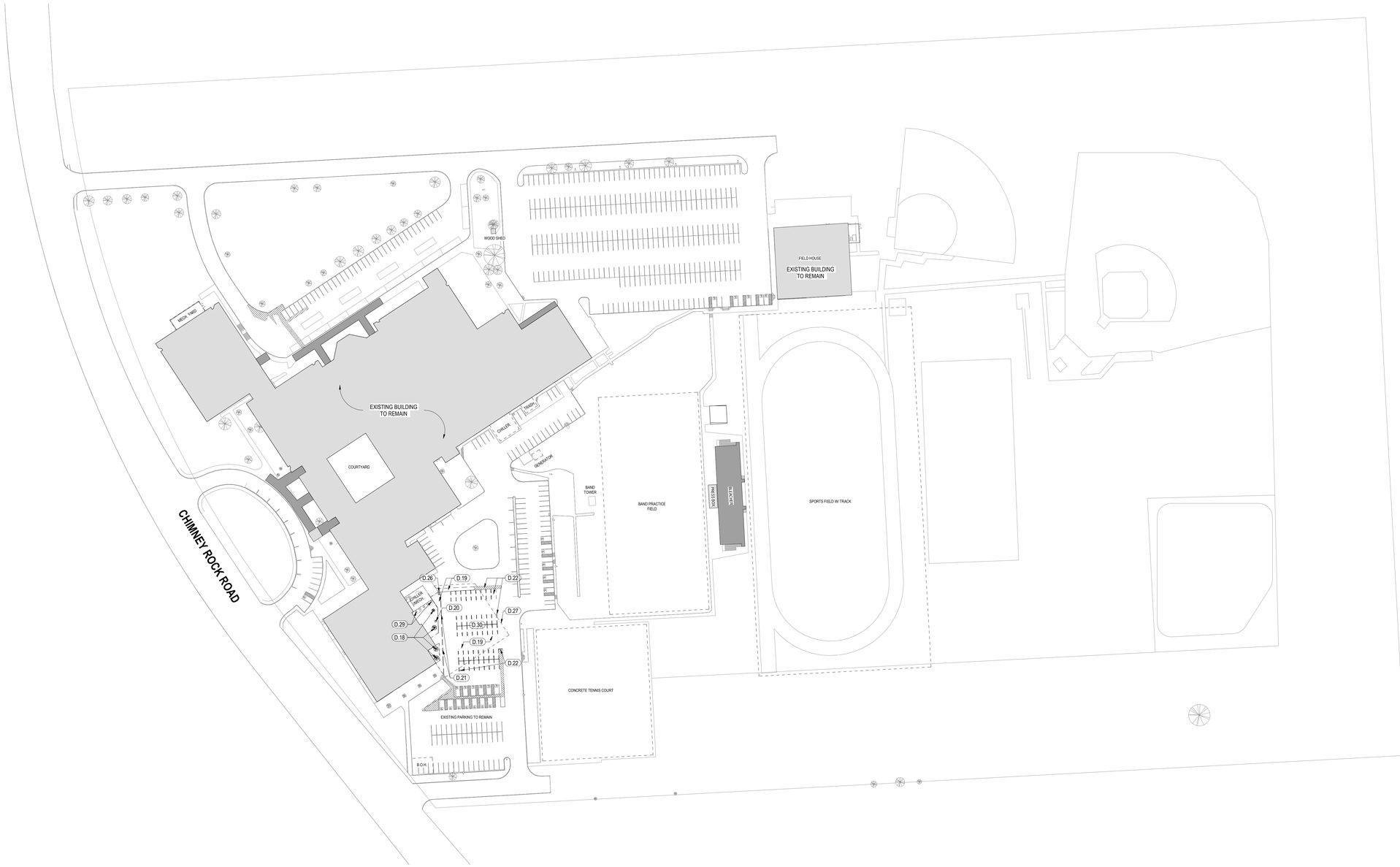

1" = 80'-0"

SITE DEMOLITION PLAN | B5

KEYNOTES

D.18	DEMO EXISTING TREE.
D.19	DEMO EXISTING CONCRETE PAVING.
D.20	DEMO EXISTING LIGHT POLE.
D.21	DEMO EXISTING CURB.
D.22	REMOVE EXISTING STRIPING.
D.26	DEMO EXISTING RAMP.
D.27	DEMO EXTENTS. RE: CIVIL
D.29	DEMO EXISTING VEGETATION.
D.30	41 PARKING SPACES LOST.

SHEET NOTES

1. REMOVE ALL EXISTING CONSTRUCTIONS AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS. INCLUDING BUT NOT LIMITED TO, ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INCLUDED. DISPOSITION OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER, THE DISPOSITION AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING BUILDINGS AND OTHER INSTALLATIONS THAT ARE TO REMAIN INTACT WHILE PERFORMING THE SPECIFIED WORK. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS ON PROJECT SITE DURING CONSTRUCTION.
3. VERIFY EXISTING CONDITIONS AND, IN THE EVENT OF ANY DISCREPANCIES, CONFLICTS OR CONDITIONS OTHER THAN SHOWN, NOTIFY THE ARCHITECT.
4. EXIT PATHS FOR ADJACENT BUILDINGS MUST REMAIN ACCESSIBLE AT ALL TIMES DURING DEMOLITION.
5. PRIOR TO INTERRUPTING OR OTHERWISE AFFECTING ANY SUCH OPERATING SYSTEM, UTILITY OR SERVICE, CONTRACTOR SHALL CONSULT WITH OWNER'S REPRESENTATIVE TO ESTABLISH A MUTUALLY SATISFACTORY SCHEDULE FOR CUT OVER, CUT OFF DISRUPTION OR OTHER CHANGE IN THE OPERATION OF THE AFFECTED SYSTEM, UTILITY OR SERVICE.
6. PROTECT ALL EXISTING STRUCTURES, SYSTEMS, FINISHES AND GENERAL CONSTRUCTION THAT ARE TO REMAIN THROUGHOUT THE COURSE OF THE WORK TO PREVENT DAMAGE OR LOSS. ANY SUCH DAMAGE CAUSED DURING THE COURSE OF THIS WORK WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BEFORE THIS WORK IS CONCLUDED.
7. CONTAIN DUST AND DEBRIS WITHIN THE DEMOLITION AREA
8. ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED PRIOR TO RENOVATION/DEMOLITION ACTIVITIES THATMAY DISTURB IT. THE REMOVAL MUST BE PERFORMED UNDER A 10 DAY NOTIFICATION TO TDSHS AND BY TDSHS LICENSED ASBESTOS CONTRACTOR
9. ALL ABOVE GROUND PARKING SIGNAGE WITHIN THE LIMIT OF DISTURBANCE SHALL BE REMOVED AND RETURNED TO THE OWNER. VERIFY EXTENTS WITH THE OWNER PRIOR TO REMOVAL OF SIGNAGE.
10. PROTECT ALL EXISTING STRUCTURES, SYSTEMS, FINISHES AND GENERAL CONSTRUCTION THAT ARE TO REMAIN THROUGHOUT THE COURSE OF THE WORK, INCLUDING THE EXISITNG CHILLER, TO PREVENT DAMAGE OR LOSS. ANY SUCH DAMAGE CAUSED DURING THE COURSE OF THIS WORK WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BEFORE THIS WORK IS CONCLUDED.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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REGISTERED ARCHITECT JOHN L. SERPA 24625 STATE OF TEXAS

16 SEPTEMBER 2025

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

N

SHEET TITLE

SITE DEMOLITION PLAN

SHEET NUMBER

A1.10

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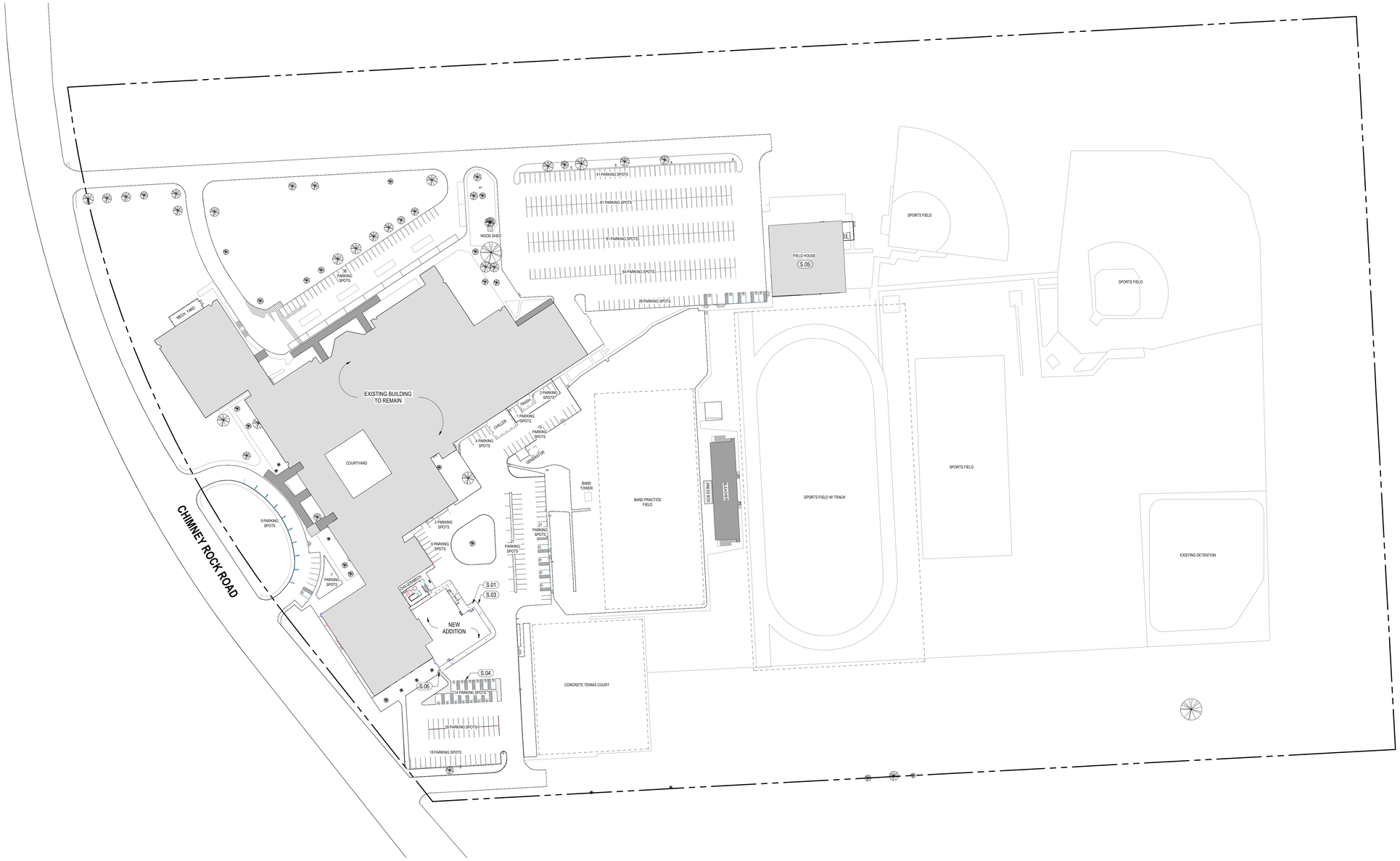

1" = 80'-0"

SITE PLAN | B5

KEYNOTES

S.01	NEW CONCRETE SIDEWALK.
S.03	NEW CONCRETE CURB.
S.04	EXISTING PARKING STRIPING TO REMAIN
S.05	RE: MEP FOR SCOPE RELATED TO FIELD HOUSE.
S.06	EXISTING ADA RAMP TO REMAIN

SHEET NOTES

1. PROJECT SCOPE ONLY EXTENDS 5' -0" OUTSIDE BUILDING SLAB. ALL WORK BEYOND 5'-0" IS ONLY SHOWN FOR INFORMATION ONLY AND IS NOT PART OF THIS PROJECT.

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SITE PLAN

SHEET NUMBER

A1.20

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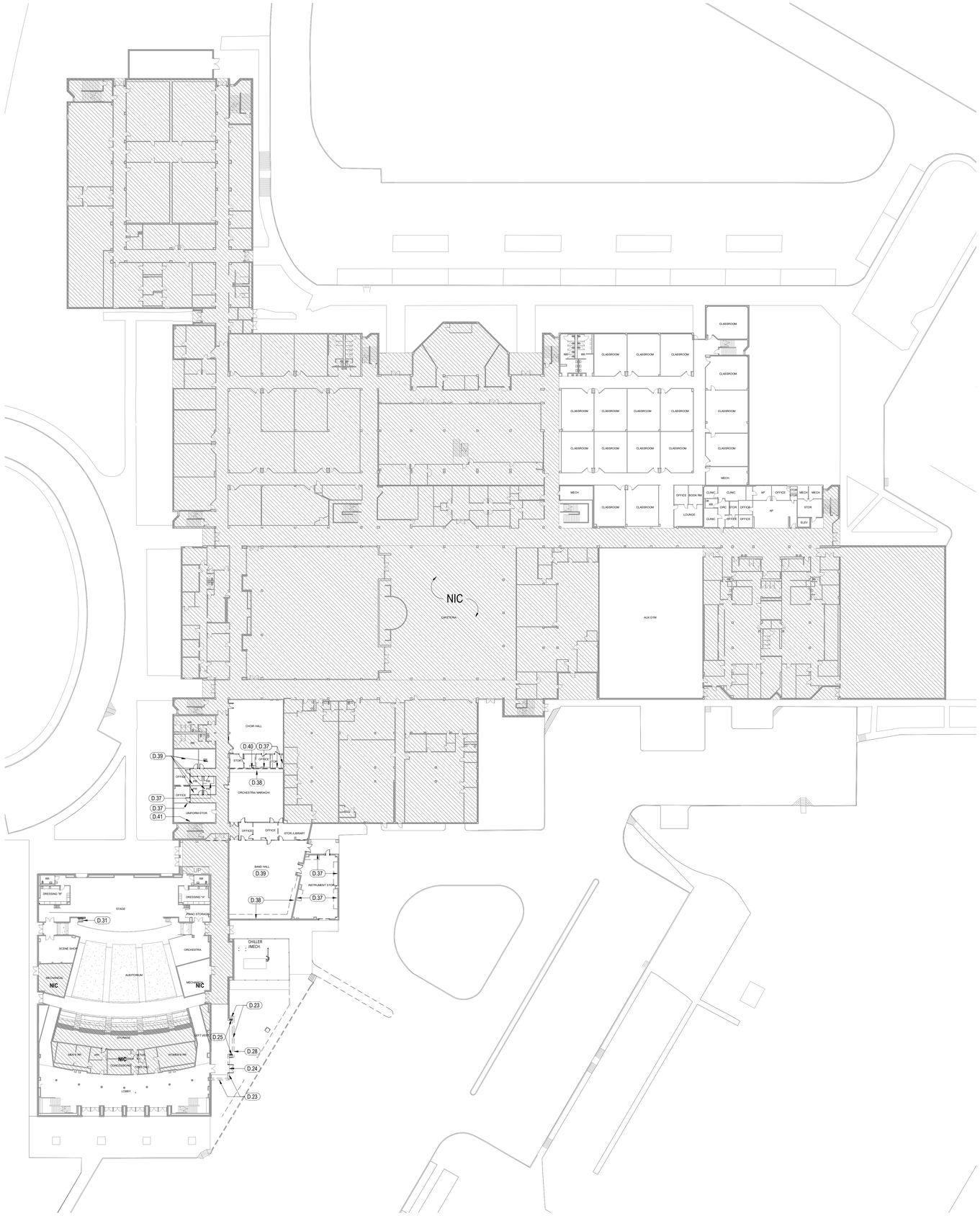

1/32" = 1'-0"

LEVEL 1 DEMO PLAN | A4

KEYNOTES

D.23	DEMO EXISTING WALL.
D.24	DEMO EXISTING DOOR.
D.25	DEMO EXISTING WINDOW.
D.28	REMOVE EXISTING SPEAKER AND ELECTRICAL.
D.31	DEMO EXISTING STAIR AND HANDRAIL.
D.37	DEMOLISH SHELVING
D.38	DEMOLISH INSTRUMENT STORAGE
D.39	REMOVE AND SALVAGE ACOUSTICAL PANELS, REINSTALL AS NEEDED
D.40	DEMOLISH CASEWORK
D.41	DEMOLISH PIPING AND SUPPORT SYSTEM

SHEET NOTES

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FORT BEND BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

DEMOLITION FLOOR PLAN

SHEET NUMBER

A2.11

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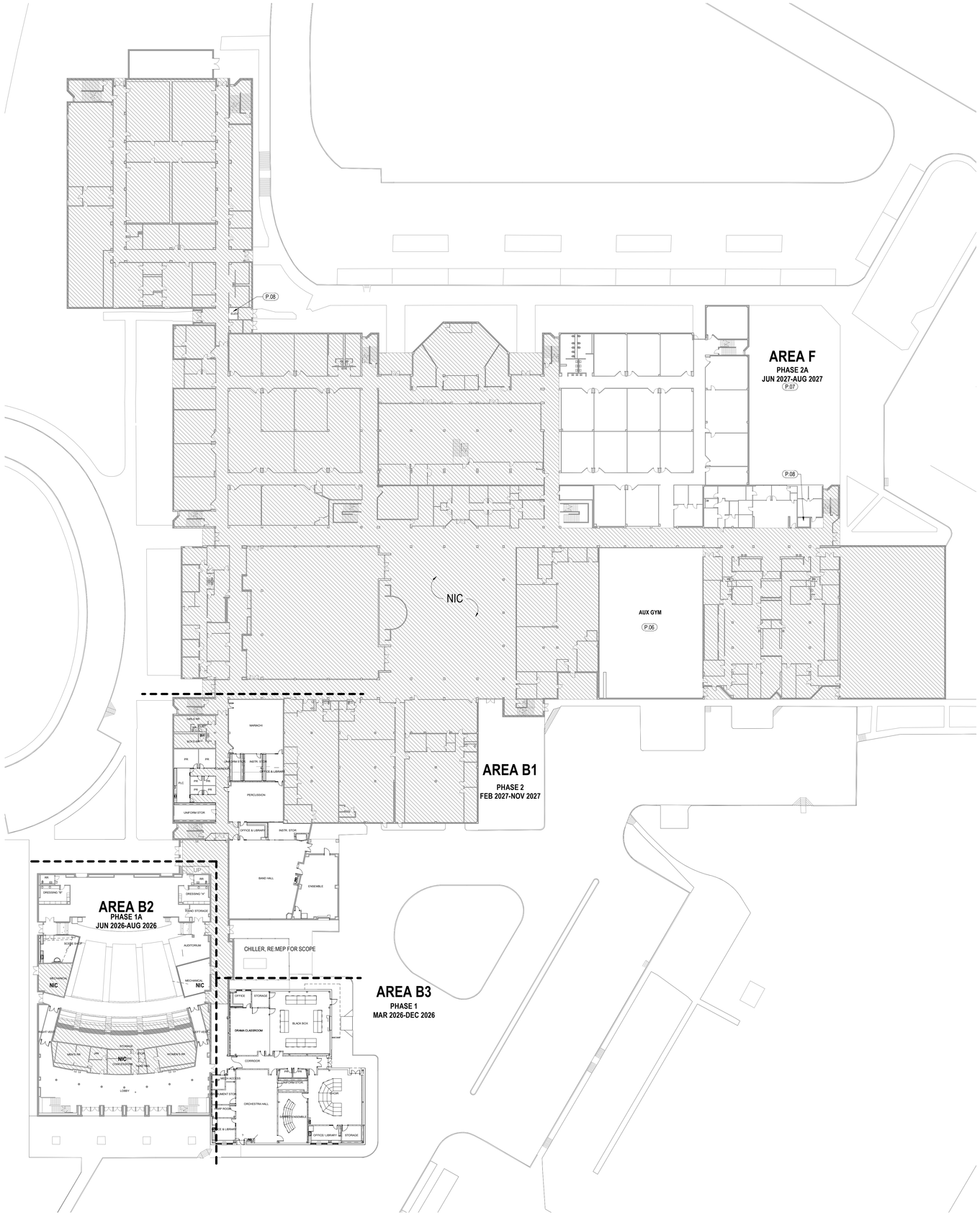

KEYNOTES

P.06	REFER TO AV FOR SCOPE OF WORK IN AUX GYM.
P.07	REFER TO MEP FOR SCOPE OF WORK IN AREA F.
P.08	REPLACE EXISTING HYDRAULIC ELEVATOR, ALT: MODERNIZATION

SHEET NOTES

1. REFER TO PROJECT INFORMATION SHEET FOR LEGEND OF REFERENCE SYMBOLS AND OTHER GRAPHIC INDICATORS/SYMBOLS.
2. ALL WORK SHALL BE ERECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MAINTAIN STANDARD INSTALLATION / CONSTRUCTION PRACTICES OF THE TRADE AND MANUFACTURER'S RECOMMENDATIONS FOR THAT PARTICULAR ITEM.
3. DIMENSIONS ARE TO FACE OF FINISH MATERIAL, UNLESS NOTED OTHERWISE. DIMENSIONS TO EXTERIOR WALLS ARE TO FINISHED FACE OF SILL WALL. CLEAR DIMENSIONS SHALL NOT VARY AND ARE MEASURED AT THE FLOOR LINE. DIMENSIONS TIED TO COLUMN CENTERLINE SHALL SET FINISHED CLEAR DIMENSIONS. VERIFY ANY UNCLEAR AREAS WITH ARCHITECT PRIOR TO PROCEEDING.
4. FLOOR AREAS ARE TO BE PREPARED FOR FINISH MATERIALS IN ACCORDANCE WITH MANUFACTURER'S SPECIFIC REQUIREMENTS. RESPONSIBILITIES INCLUDE FLASH PATCHING TO LEVEL AND SMOOTH FLOOR TO 1" IN 20'-0", NON-CUMULATIVE. CONCRETE FLOORS SHALL BE FREE OF IRREGULARITIES IN THE SURFACE AND MUST EXHIBIT NEUTRALITY RELATIVE TO ACIDITY AND ALKALINITY. CONTRACTOR TO CONDUCT MOISTURE AND ALKALINITY TESTS WHERE CARPET OR VCT IS DIRECTLY LAID TO CONCRETE SLAB.
5. ALL NEW PARTITIONS ARE TO BE PERPENDICULAR OR PARALLEL WITH CORE OR EXTERIOR WINDOW WALL ELEMENTS, UNLESS NOTED OTHERWISE. CENTER PARTITIONS ON COLUMNS OR MULLIONS, UNLESS NOTED OTHERWISE.
6. HINGE SIDE OF DOORS TO BE LOCATED 4" FROM START OF FRAME TO NEAREST PERPENDICULAR PARTITION.

1/32" = 1'-0"

LEVEL 1 COMPOSITE PLAN | A4

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PROJECT NAME
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PROJECT ADDRESS
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Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
LEVEL 1 - COMPOSITE FLOOR PLAN

SHEET NUMBER
A2.21

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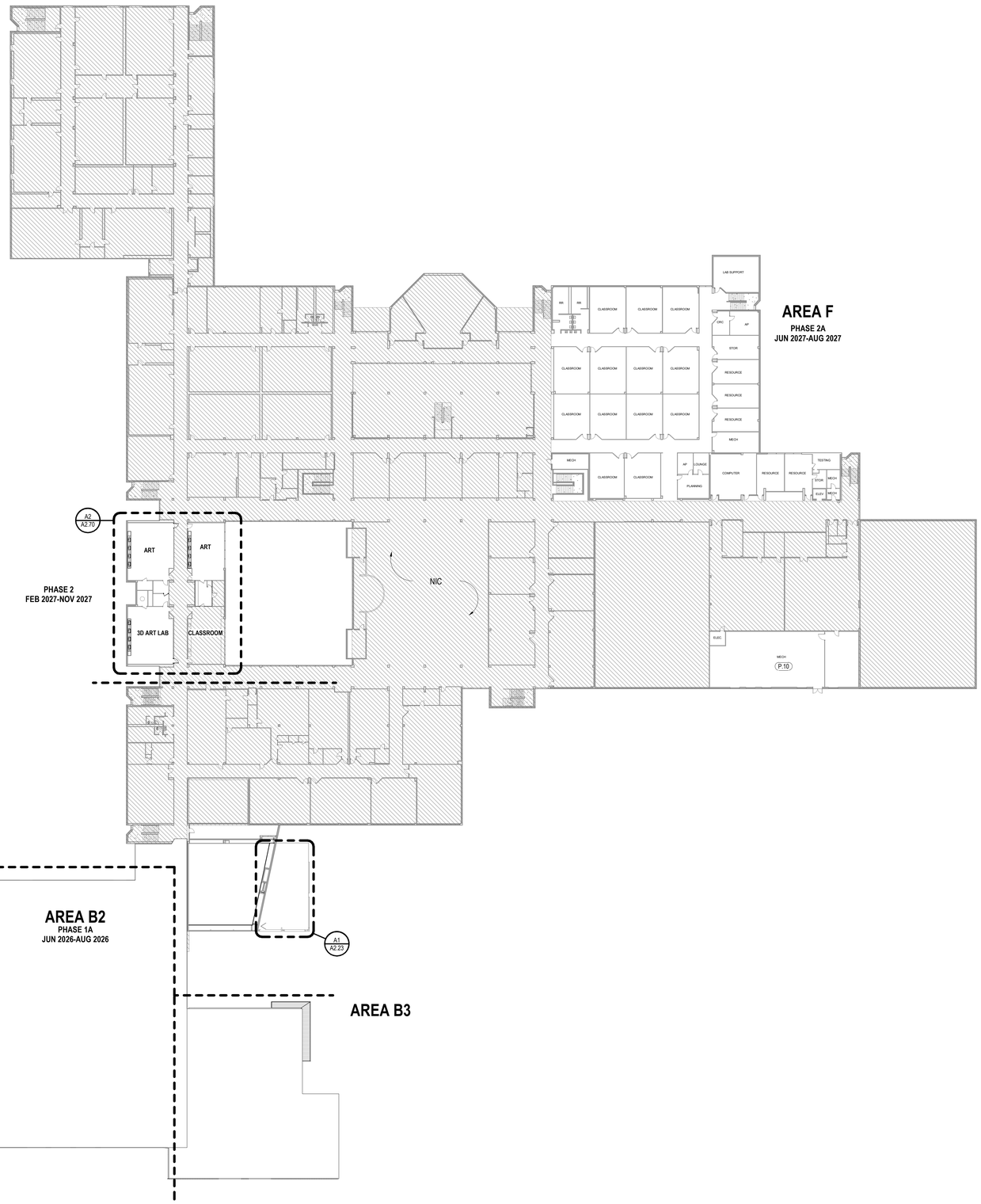

KEYNOTES

P.10 REPLACE EXISTING CHILLERS (CHILLERS 1 & 2), RE: MEP.

SHEET NOTES

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6. HINGE SIDE OF DOORS TO BE LOCATED 4" FROM START OF FRAME TO NEAREST PERPENDICULAR PARTITION.

1/32" = 1'-0"

LEVEL 2 COMPOSITE PLAN | A4

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REGISTERED ARCHITECT JODY L. SIEGEL 24625 STATE OF TEXAS

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FORT BEND BOND 2025 INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LEVEL 2 - COMPOSITE FLOOR PLAN

SHEET NUMBER

A2.22

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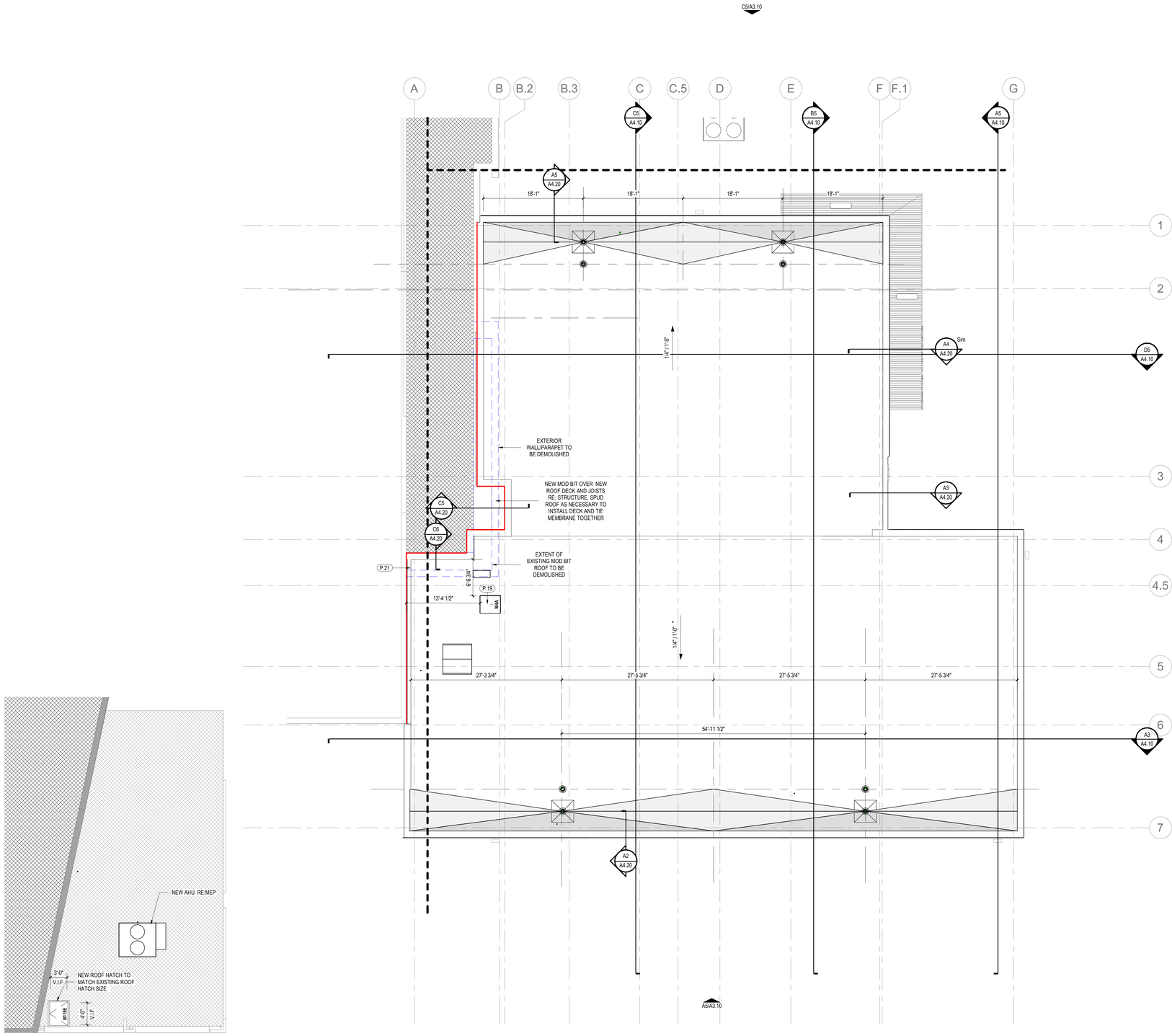

1/8" = 1'-0" ROOF PLAN - EXISTING BAND ADDITION | A1

1/8" = 1'-0" ROOF PLAN - AREA B3 | A4

ROOF LEGEND

ROOF DRAIN
OVERFLOW DRAIN
RD
OD

SLOPE — INDICATES ROOF SLOPE CREATED BY SLOPING STRUCTURE

MB1 - REFER TO SHEET A5.30 FOR DETAILS

ROOF CRICKET CREATED BY TAPERED INSULATION

EXISTING MOD BIT ROOF TO REMAIN

#.## KEYNOTES

P.19 ROOF HATCH, HATCH-1
P.21 2" EXPANSION JOINT

SHEET NOTES

1. SLOPE ROOF MIN 1/4" PER FOOT, FOR FINISH PRODUCT
2. ROOF ELEVATIONS AND SLOPE ARE DERIVED BY SLOPING STRUCTURE
3. ALL ROOF PENETRATIONS AND CURBS TO RECEIVE CRICKETING AS REQUIRED FOR PROPER DRAINAGE
4. REFER TO PLUMBING DRAWINGS FOR DRAIN SIZES
5. ALL ROOF EDGE DESIGN AND CONSTRUCTION SHALL CONFORM TO ANSI/SPRI ES-1 STANDARDS, INCLUDING SIMILAR FABRICATIONS AS TESTED BY NRCA

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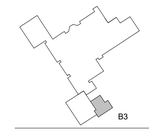
PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - ROOF



SHEET TITLE
ROOF PLAN

SHEET NUMBER
A2.23

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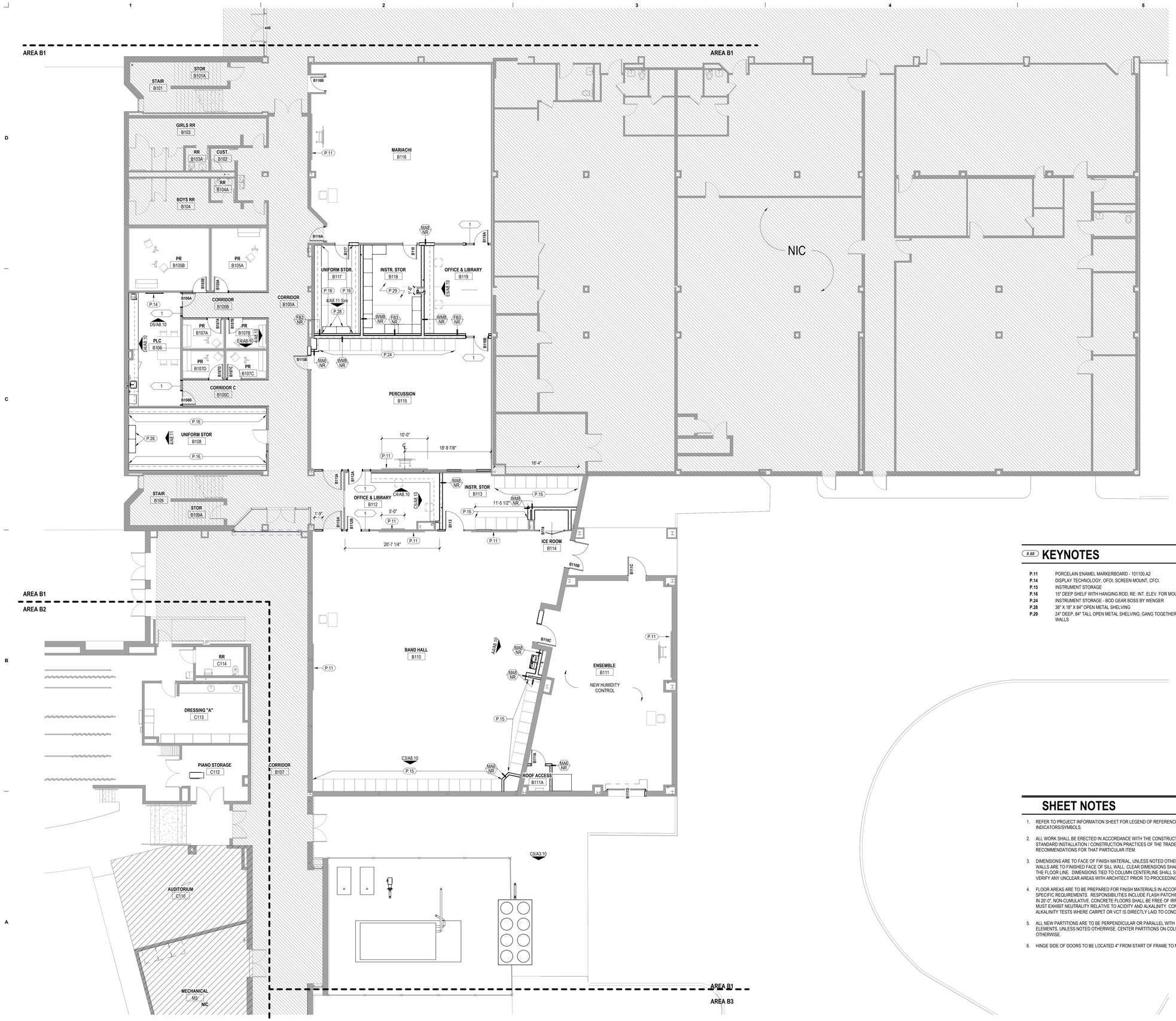

1/8" = 1'-0"

LEVEL 1 FLOOR PLAN- AREA B1 | B5

KEYNOTES

P.11	PORCELAIN ENAMEL MARKERBOARD - 101100.A2
P.14	DISPLAY TECHNOLOGY, OFOI; SCREEN MOUNT, CFCI.
P.15	INSTRUMENT STORAGE
P.16	15" DEEP SHELF WITH HANGING ROD; RE: INT. ELEV. FOR MOUNTING HEIGHTS
P.24	INSTRUMENT STORAGE - BOD GEAR BOSS BY WENGER
P.28	36" X 18" X 84" OPEN METAL SHELVING
P.29	24" DEEP, 84" TALL OPEN METAL SHELVING; GANG TOGETHER AND AFFIX TO WALLS

SHEET NOTES

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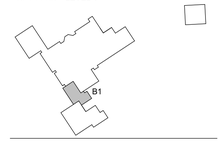
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 - FLOOR PLAN - AREA B1

SHEET NUMBER

A2.31

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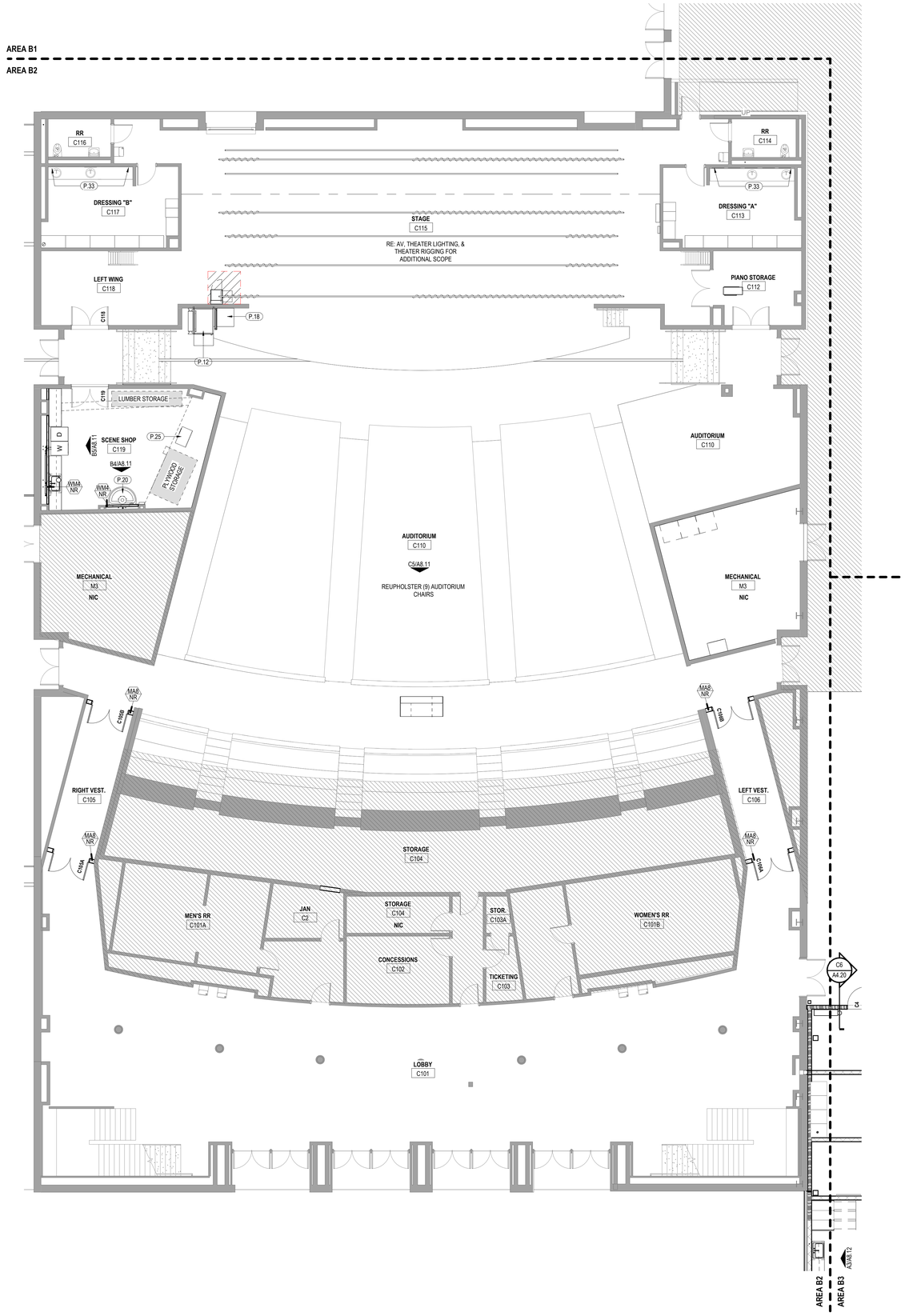

1/8" = 1'-0"

LEVEL 1 FLOOR PLAN - AREA B2 | A4

KEYNOTES

P.12	WHEELCHAIR LIFT - 144200
P.18	INFILL STAGE. MATCH EXISTING STAGE FINISHES.
P.20	TROUGH SINK
P.25	FLAMMABLE CABINET
P.33	REPLACE EXISTING INCANDESCENT LIGHTING AT DRESSING ROOM MIRRORS

SHEET NOTES

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6. HINGE SIDE OF DOORS TO BE LOCATED 4" FROM START OF FRAME TO NEAREST PERPENDICULAR PARTITION.

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

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REGISTERED ARCHITECT
JOHN L. SERAFY
STATE OF TEXAS
24625

16 SEPTEMBER 2025

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

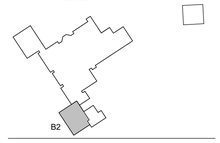
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 - FLOOR PLAN - AREA B2

SHEET NUMBER

A2.32

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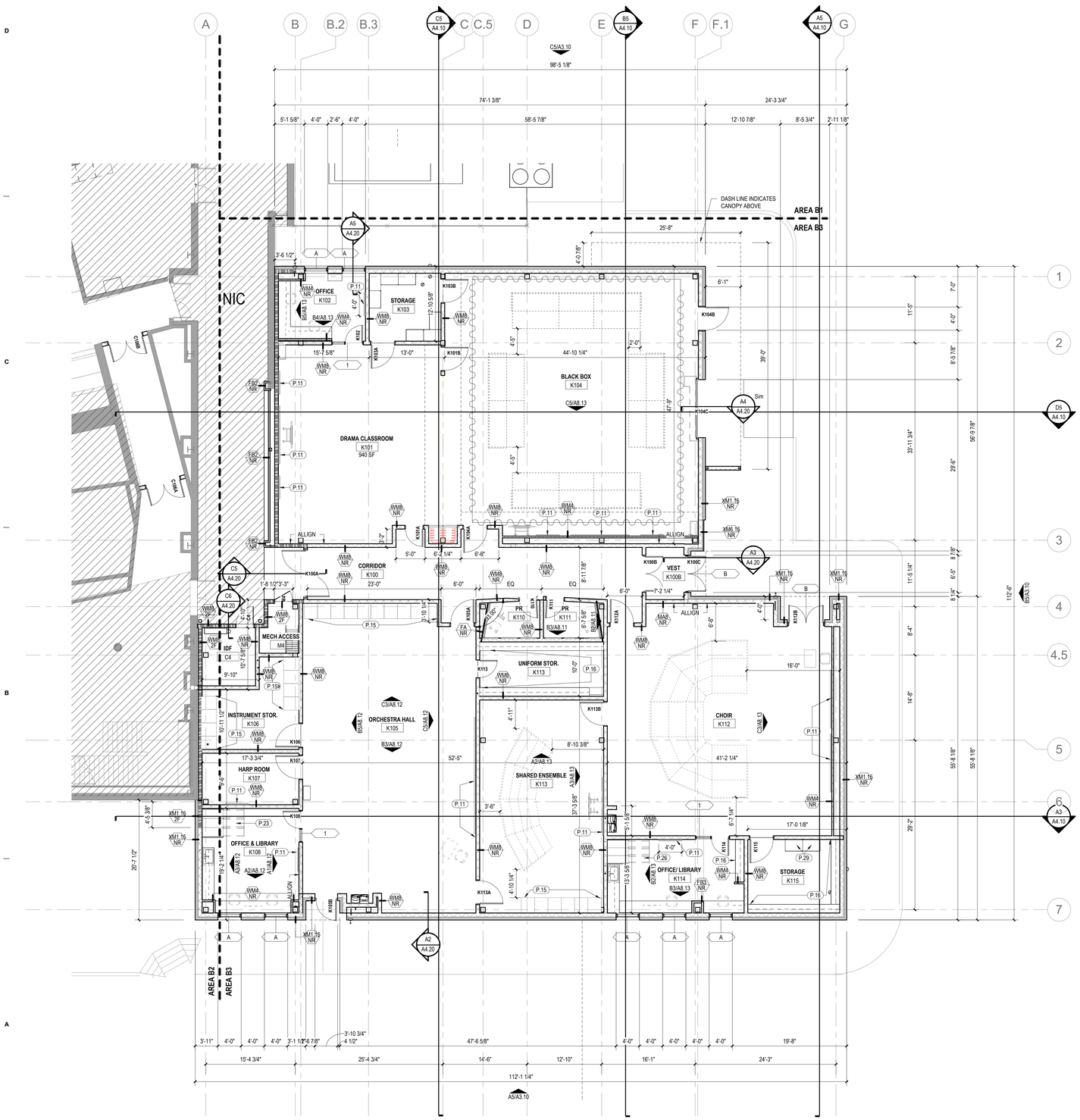

1/8" = 1'-0"

LEVEL 1 FLOOR PLAN- AREA B3 | A4

KEYNOTES

# ##	
P.11	PORCELAIN ENAMEL MARKERBOARD - 101100.A2
P.15	INSTRUMENT STORAGE
P.16	15" DEEP SHELF WITH HANGING ROD: RE: INT. ELEV. FOR MOUNTING HEIGHTS
P.23	MUSIC LIBRARY SYSTEM. BOD- WENGER 3 UNIT (19" W), 7 SHELF
P.26	MUSIC LIBRARY SYSTEM. BOD- WENGER 3 UNIT (16" W), 7 SHELF
P.29	24" DEEP, 84" TALL OPEN METAL SHELVING; GANG TOGETHER AND AFFIX TO WALLS

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FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 - FLOOR PLAN - AREA B3

SHEET NUMBER

A2.33

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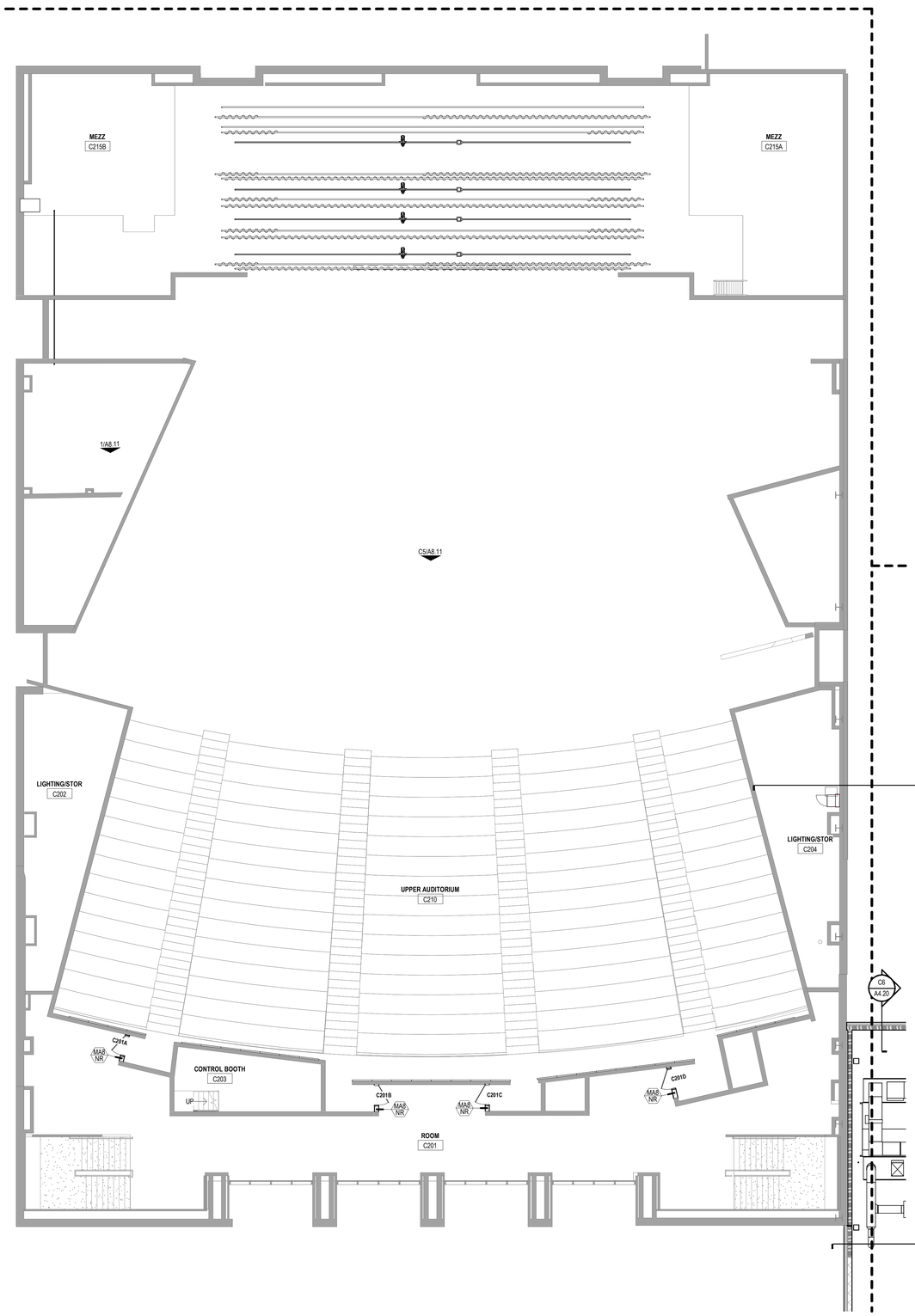
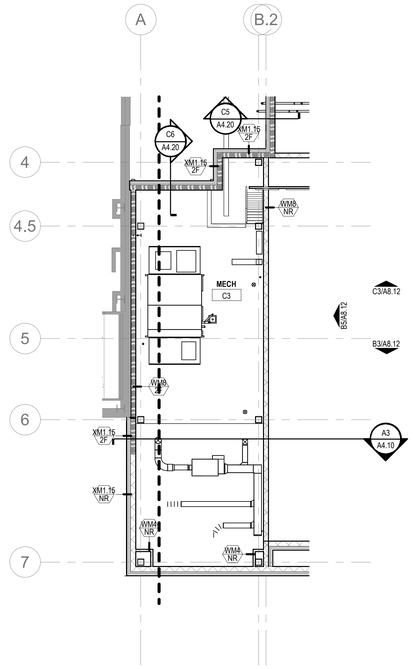


1/8" = 1'-0" LEVEL 2 FLOOR PLAN AREA B2 | 1



1/8" = 1'-0" LEVEL 2 FLOOR PLAN - MECH. MEZZ. | C5

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FORT BEND 2020 BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2

SHEET TITLE

LEVEL 2 - FLOOR PLAN - AREA B2 & MECH. MEZZ.

SHEET NUMBER

A2.34

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1/8" = 1'-0"

LEVEL 1 RCP - AREA B1 | A4

#.## KEYNOTES

SHEET NOTES

1. NEW CEILING TILE TO BE TYPE "APC-1", U.N.O.
2. PROVIDE BLOCKING ABOVE CEILING AS REQUIRED FOR OVERHEAD PROJECTORS, OVERHEAD PROJECTION SCREENS, SECURITY CONTROLS.
3. CONCEALED SPRINKLER HEAD COVER PLATES IN FACTORY-APPLIED COATING TO MATCH ADJACENT CEILING FINISHES.

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FORT BEND 2025 BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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PROJECT ADDRESS

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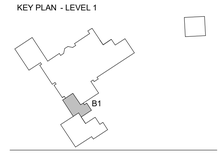
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 - REFLECTED CEILING PLAN - AREA B1

SHEET NUMBER

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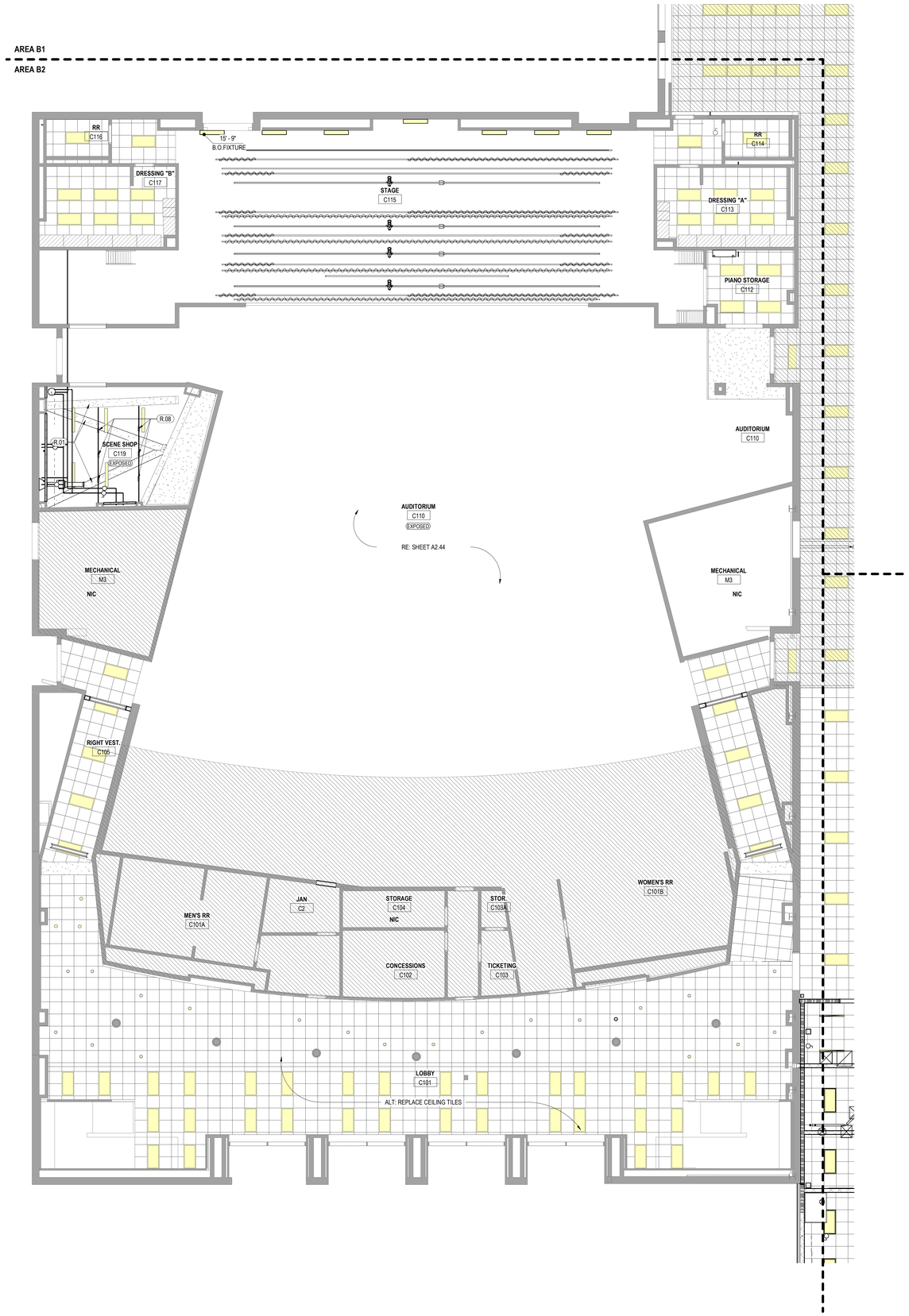

1/8" = 1'-0"

LEVEL 1 RCP - AREA B2 | A4

KEYNOTES

R.01	PAINT OVERHEAD BEAMS WITH SCHEDULED ADJACENT WALL PAINT.
R.08	POWER CORD REEL MOUNTED ON UNISTRUT SPANNING THE WALL AND EXISTING BEAM RE:MEP

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 - REFLECTED CEILING PLAN - AREA B2

SHEET NUMBER

A2.42

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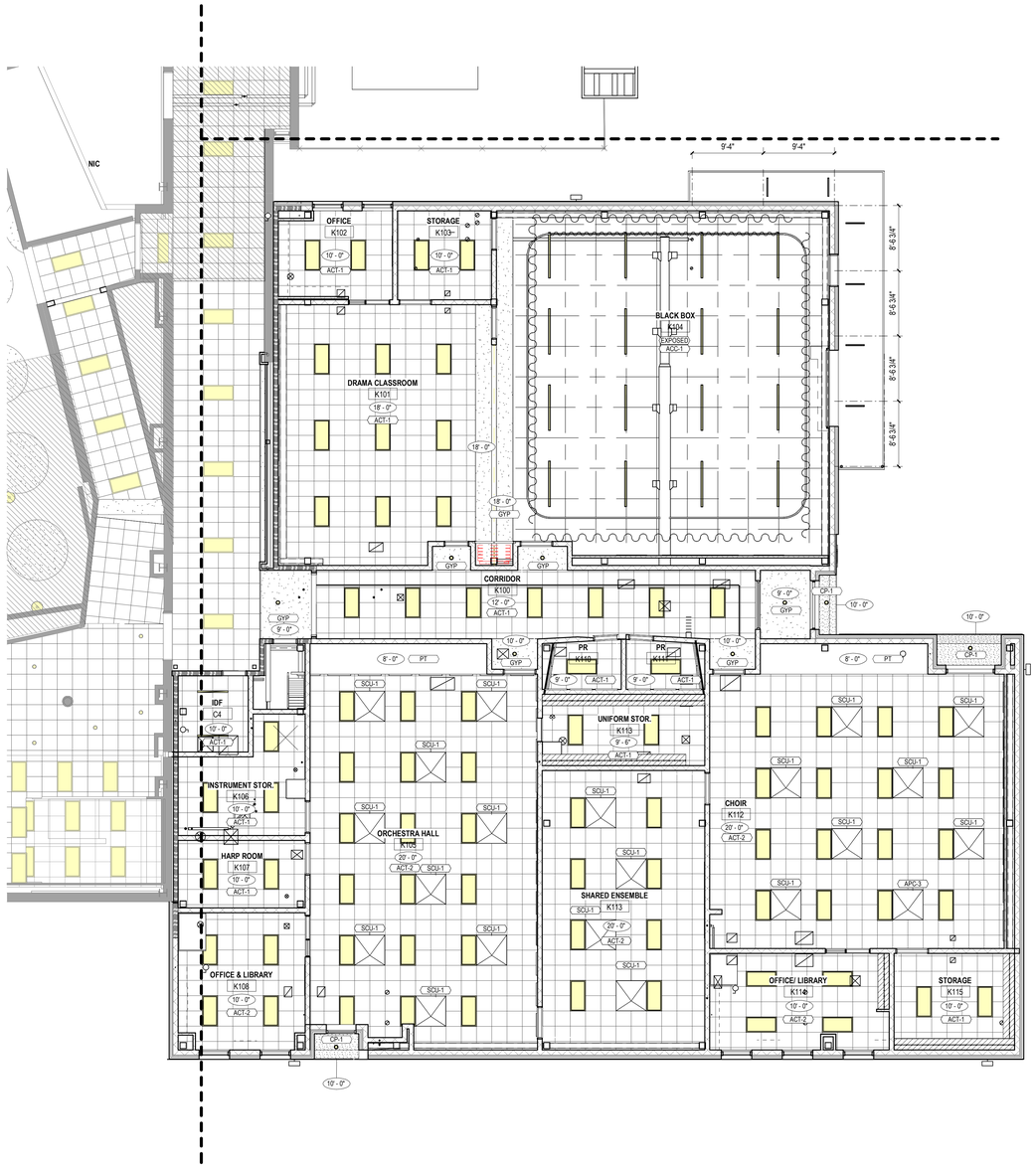

1/8" = 1'-0"

LEVEL 1 RCP - AREA B3 | 1

KEYNOTES

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PROJECT NAME

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PROJECT ADDRESS

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KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 - REFLECTED CEILING PLAN - AREA B3

SHEET NUMBER

A2.43

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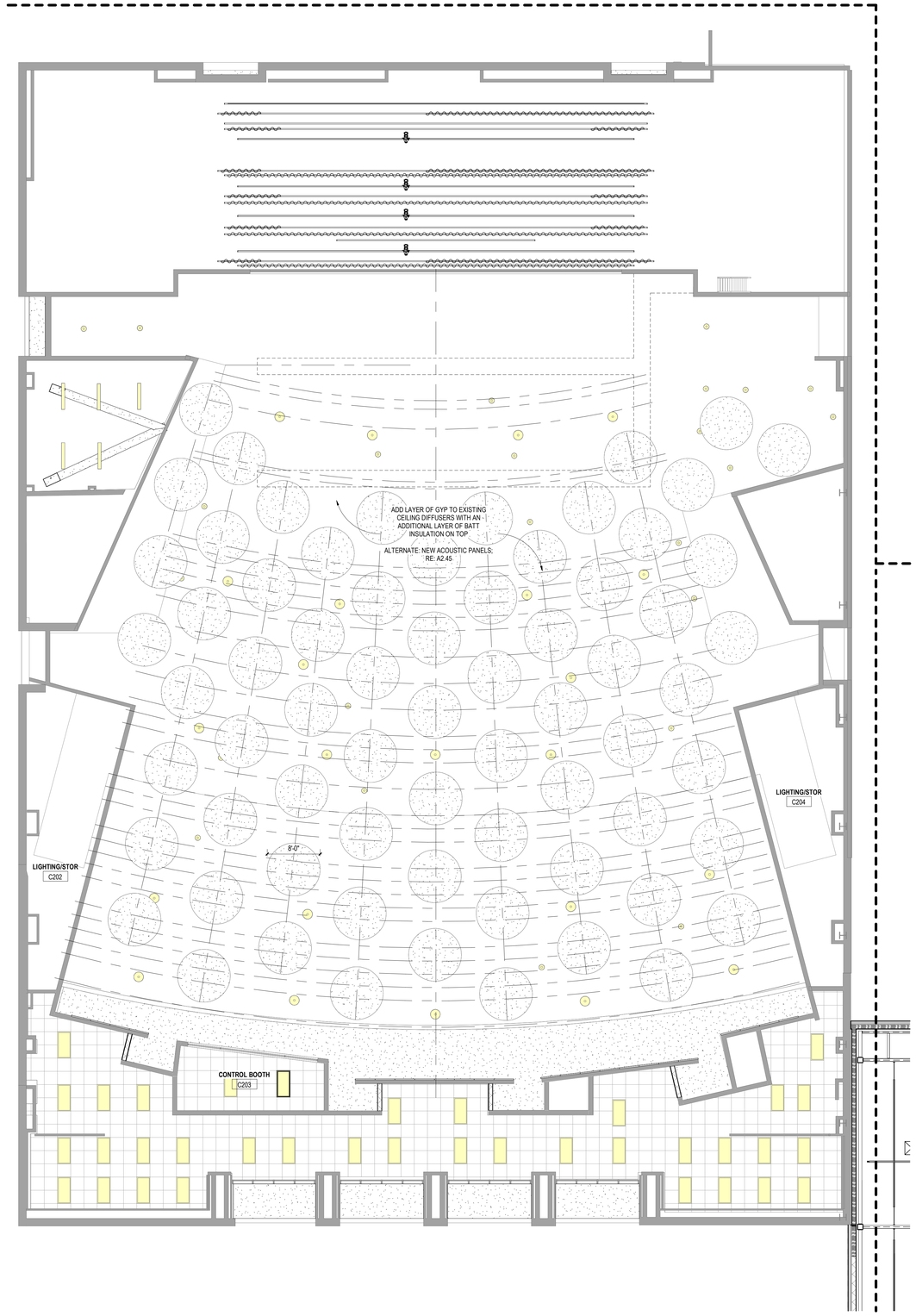
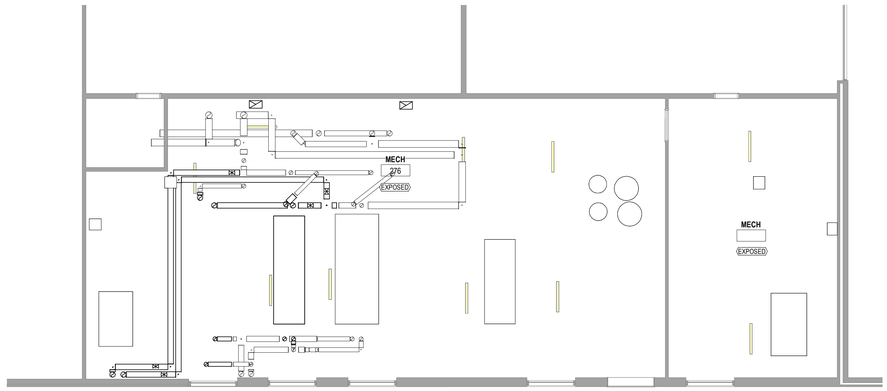
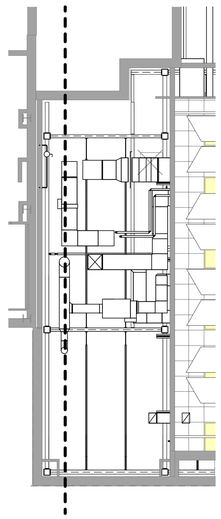


1/8" = 1'-0" LEVEL 2 RCP - AREA B2 | A3



1/8" = 1'-0" LEVEL 2 - MECHANICAL ROOM | C5



1/8" = 1'-0" LEVEL 2 - MECH. MEZZ. | A4

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PROJECT NAME

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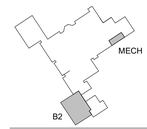
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 - REFLECTED CEILING PLAN - AREA B2

SHEET NUMBER

A2.44

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1/8" = 1'-0"

LEVEL 2 RCP - AREA B2 -ALT | A4

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FORT BEND INDEPENDENT SCHOOL DISTRICT — 2023 BOND

PROJECT NAME

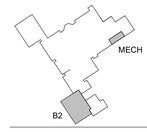
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 - REFLECTED CEILING PLAN - AREA B2 ALT

SHEET NUMBER

A2.45

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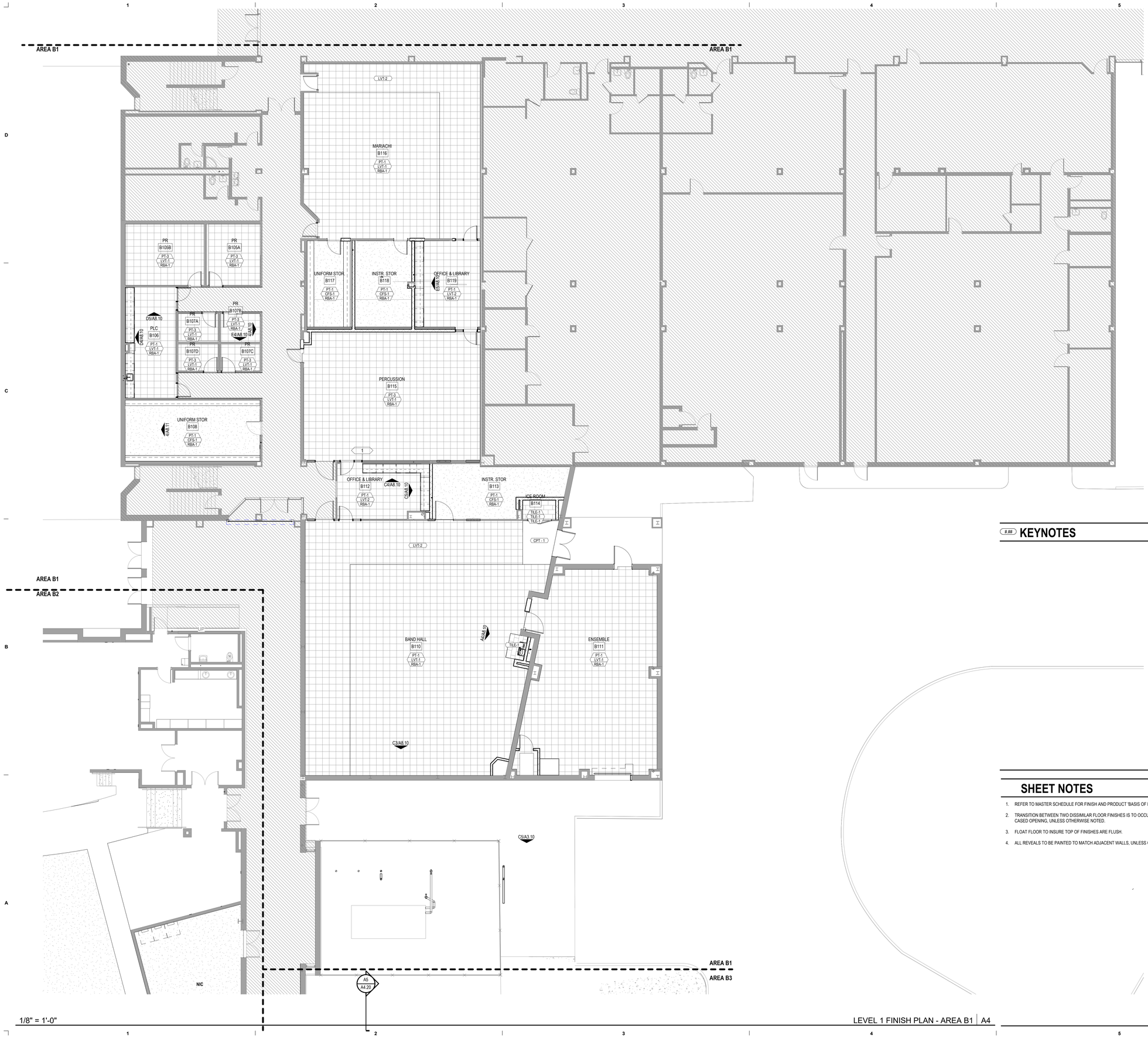

1/8" = 1'-0"

LEVEL 1 FINISH PLAN - AREA B1 | A4

#.## KEYNOTES

SHEET NOTES

1. REFER TO MASTER SCHEDULE FOR FINISH AND PRODUCT 'BASIS OF DESIGN'.
2. TRANSITION BETWEEN TWO DISSIMILAR FLOOR FINISHES IS TO OCCUR AT THE CENTERLINE OF DOOR OR CASED OPENING, UNLESS OTHERWISE NOTED.
3. FLOAT FLOOR TO INSURE TOP OF FINISHES ARE FLUSH.
4. ALL REVEALS TO BE PAINTED TO MATCH ADJACENT WALLS, UNLESS OTHERWISE NOTED.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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REGISTERED ARCHITECT — JODY L. SIEGEL — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

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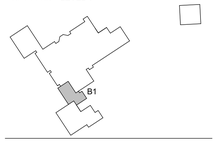
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 - FINISH PLAN - AREA B1

SHEET NUMBER

A2.61

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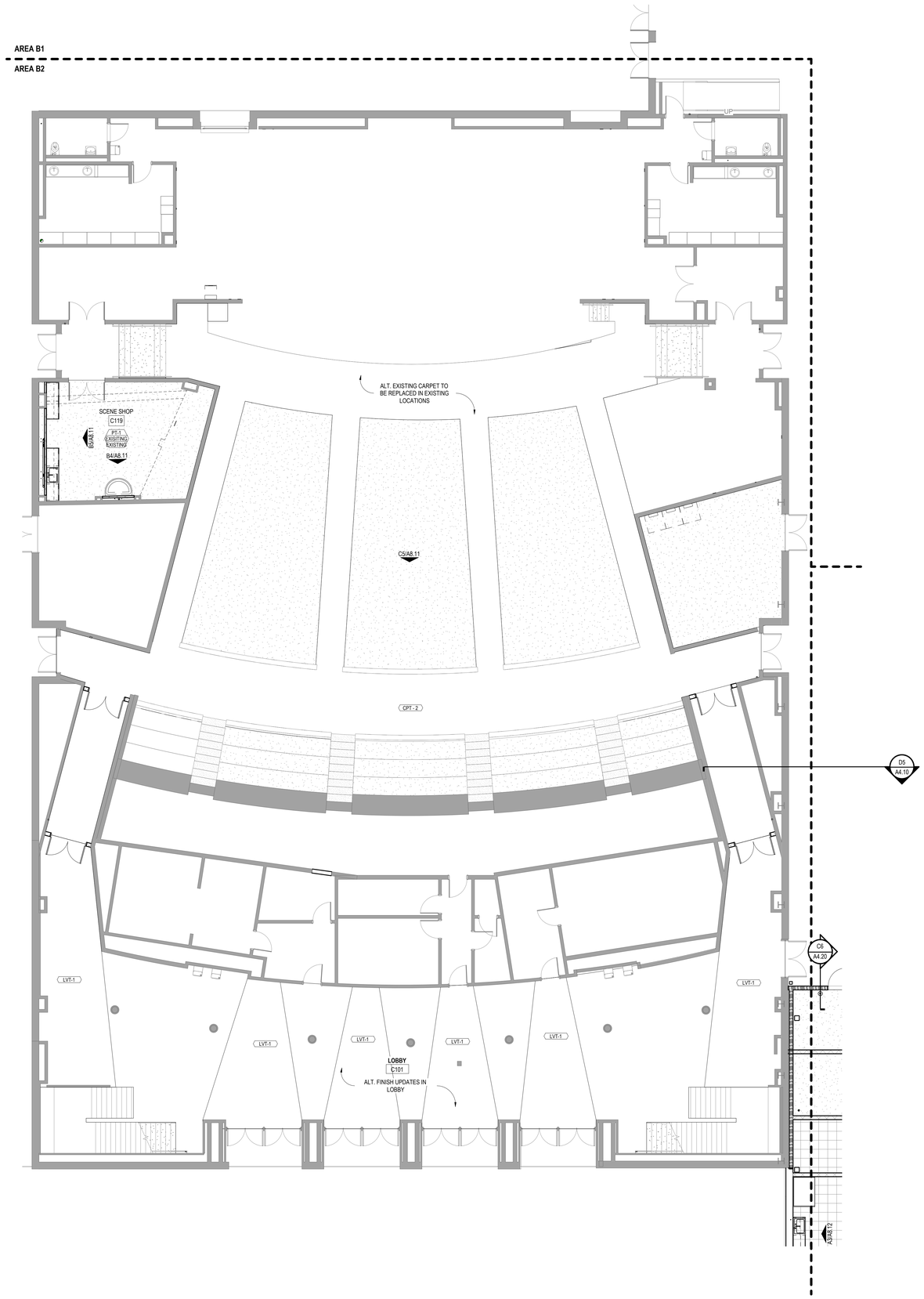

1/8" = 1'-0"

LEVEL 1 FINISH PLAN - AREA B2 | A4

KEYNOTES

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REGISTERED ARCHITECT
JOHN L. SERPA
STATE OF TEXAS
24625

16 SEPTEMBER 2025

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PROJECT ADDRESS
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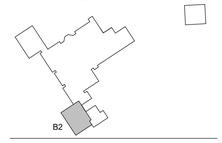
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 1 - FINISH PLAN - AREA B2

SHEET NUMBER
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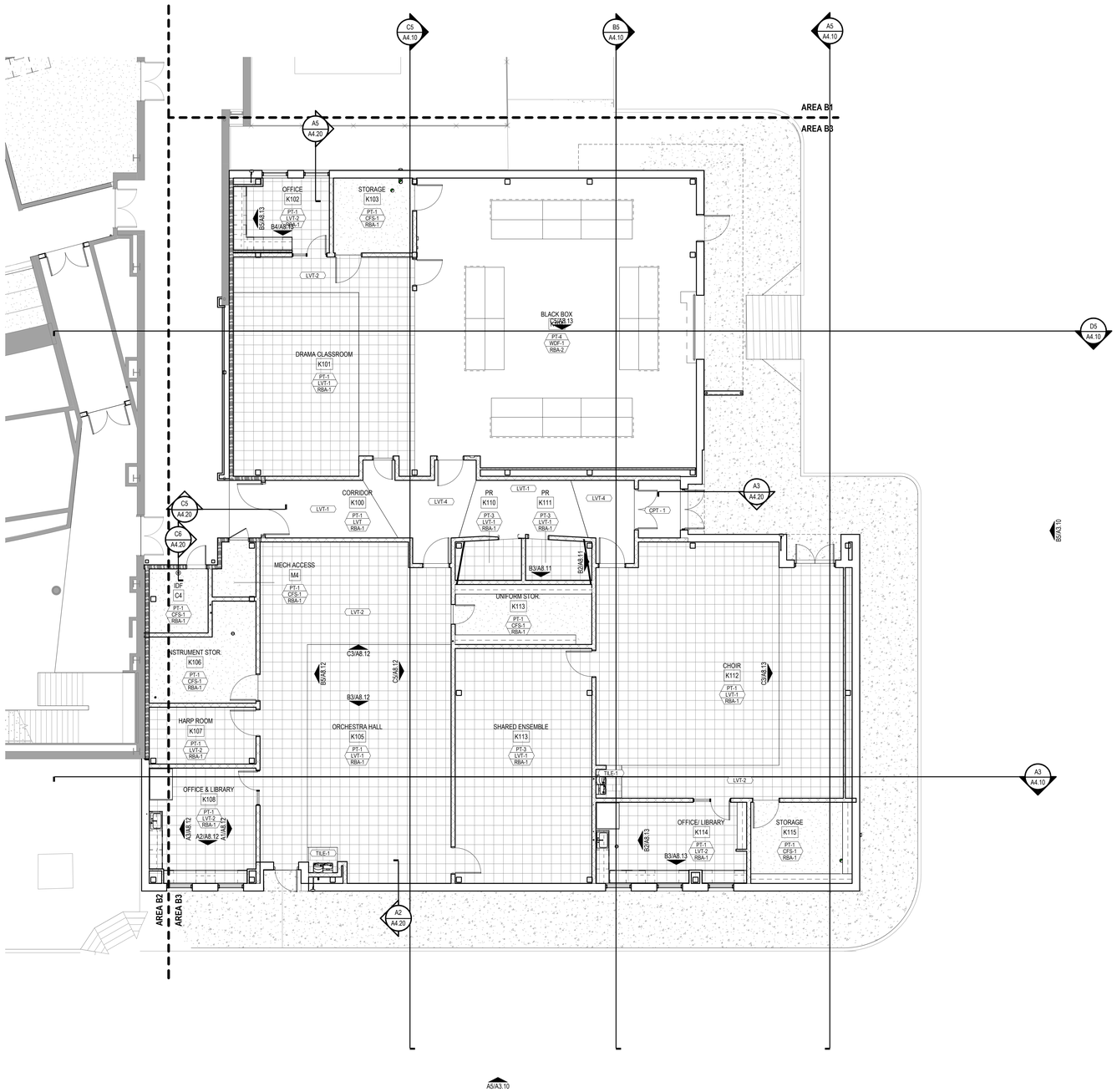

1/8" = 1'-0"

LEVEL 1 FINISH PLAN - AREA B3 | A4

KEYNOTES

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JOHN L. SERGI
24625
STATE OF TEXAS

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

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PROJECT ADDRESS

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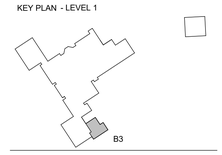
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 - FINISH PLAN - AREA B3

SHEET NUMBER

A2.63

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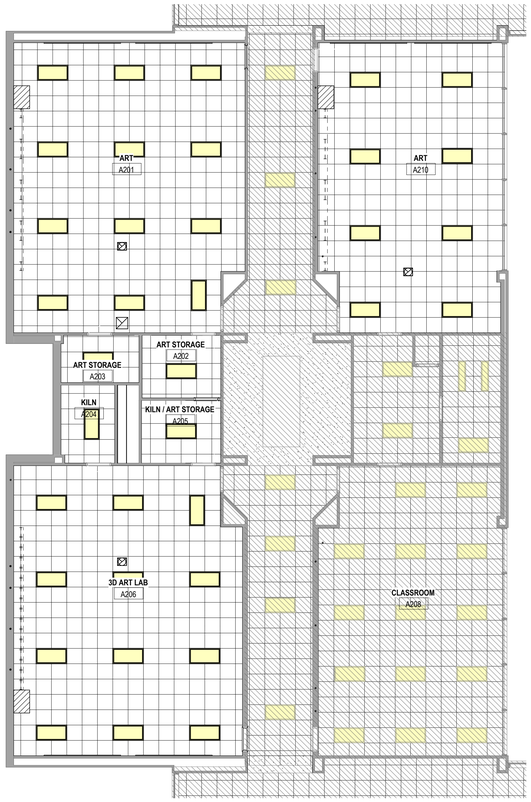
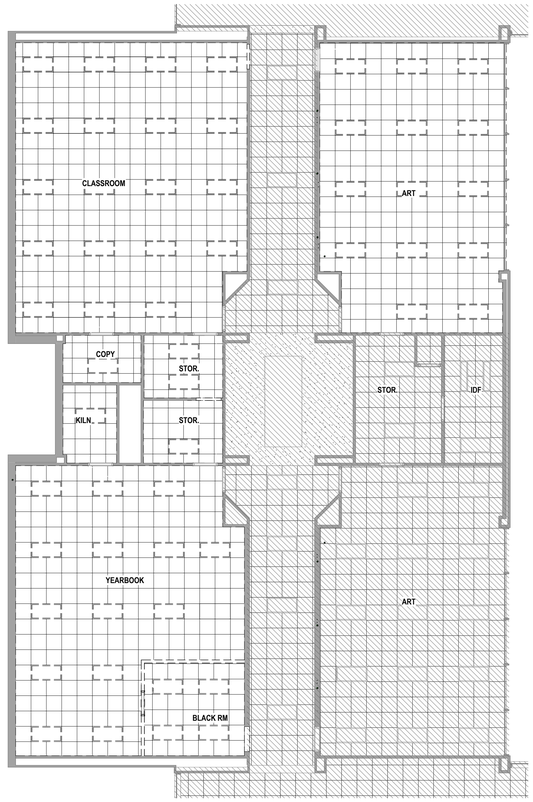


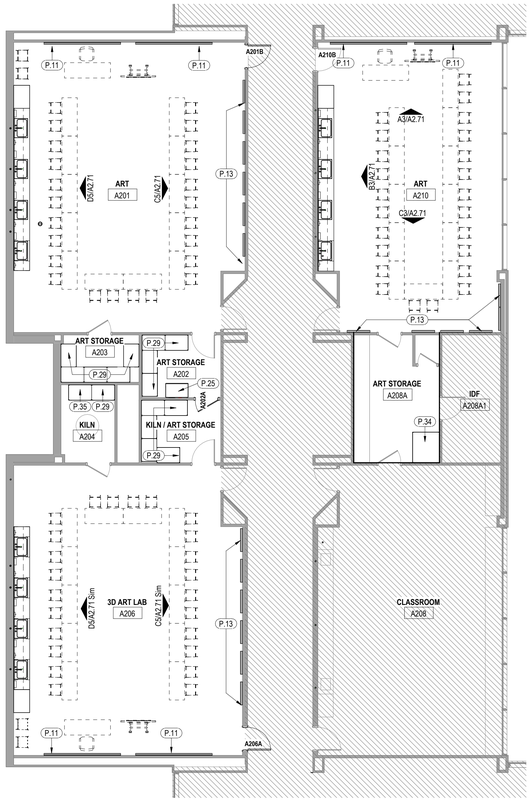
1/8" = 1'-0"

ENLARGED RCP - ART ROOMS | C2



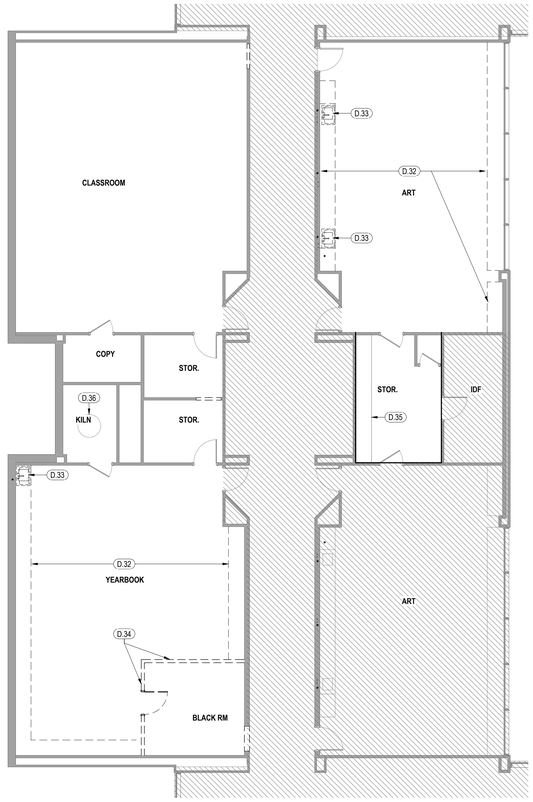
1/8" = 1'-0"

ENLARGED DEMO RCP - ART ROOMS | C4



1/8" = 1'-0"

ENLARGED PLANS - ART ROOMS | A2



1/8" = 1'-0"

ENLARGED DEMO PLAN - ART ROOMS | A4

KEYNOTES

D.32	DEMO EXISTING CASEWORK IN ITS ENTIRETY
D.33	DEMO EXISTING SINK RE: PLUMBING
D.34	DEMO EXISTING DARK ROOM
D.35	EXISTING MILLWORK TO REMAIN
D.36	EXISTING KILN TO REMAIN
P.11	PORCELAIN ENAMEL MARKERBOARD - 101100.A2
P.13	DISPLAY CLIP FOR POSTER BOARDS; TACKLESS
P.25	FLAMMABLE CABINET
P.29	24" DEEP, 84" TALL OPEN METAL SHELVING; GANG TOGETHER AND AFFIX TO WALLS
P.34	POSTER BOARD STORAGE CABINET; 42" X 48" X 48"
P.35	DRYING RACK FOR CERAMIC PRODUCTS

SHEET NOTES

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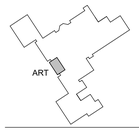
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

ENLARGED PLANS - ART ROOMS

SHEET NUMBER

A2.70

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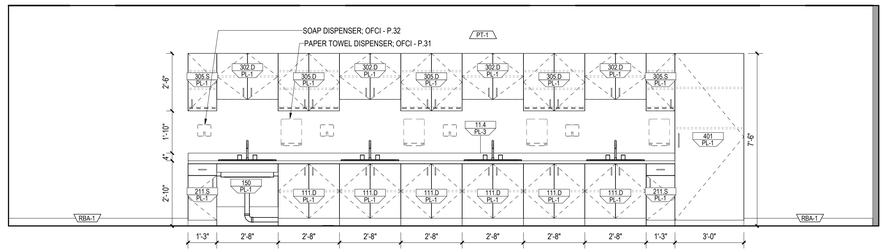
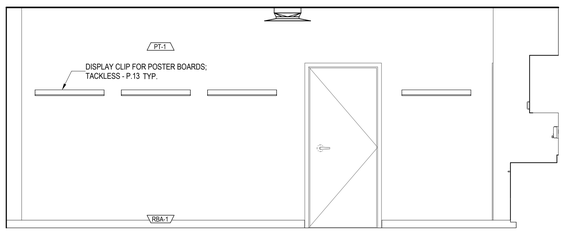
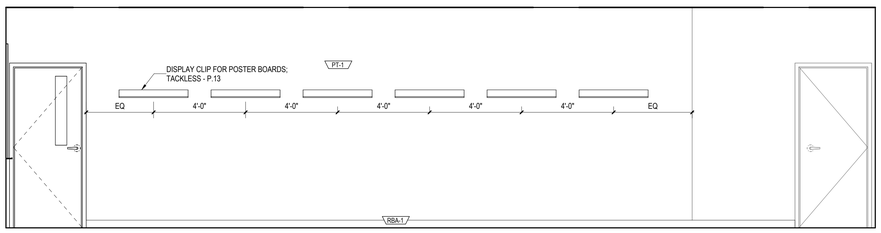


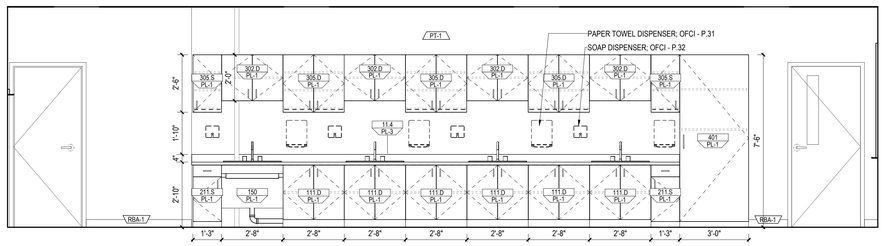
3/8" = 1'-0" ART A201 W | D5



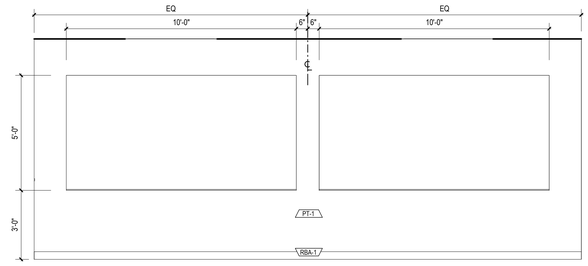
3/8" = 1'-0" ART A210 S | C3



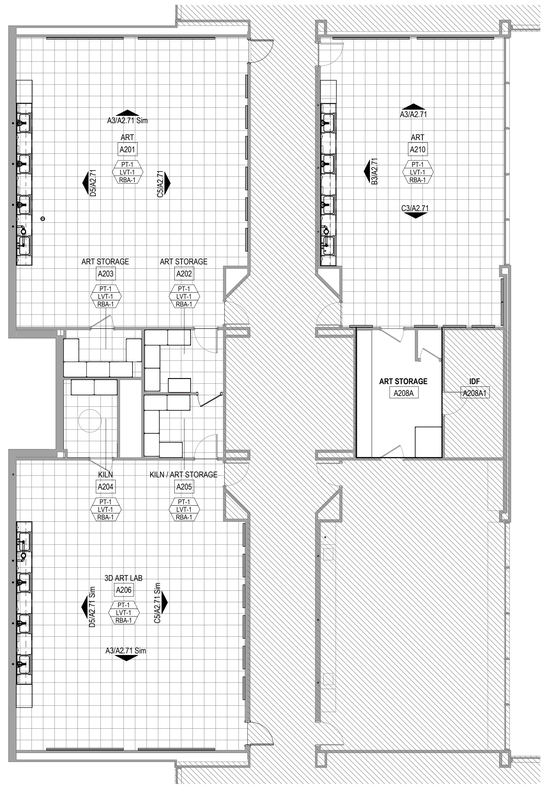
3/8" = 1'-0" ART A201 E | C5



3/8" = 1'-0" ART A210 E | B3



3/8" = 1'-0" ART A210 N | A3



1/8" = 1'-0" ENLARGED FINISH PLAN - ART ROOMS | A4

KEYNOTES

# ##	
P.13	DISPLAY CLIP FOR POSTER BOARDS; TACKLESS
P.31	PAPER TOWEL DISPENSER; OFCI
P.32	SOAP DISPENSER; OFCI

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REGISTERED ARCHITECT JOHN L. SERPA Sealed & Signed STATE OF TEXAS 24625

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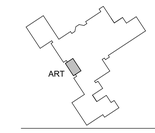

SHEET TITLE

ENLARGED PLANS - ART ROOMS

SHEET NUMBER

A2.71

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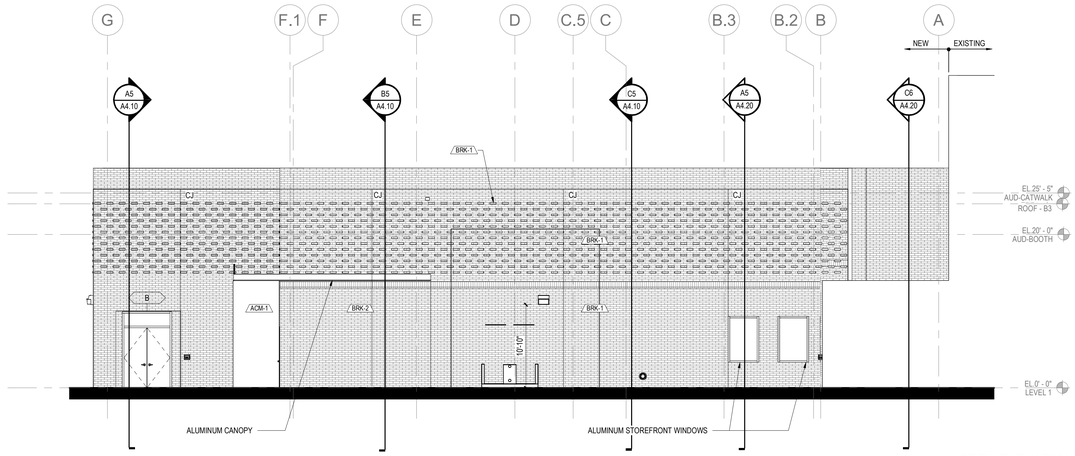
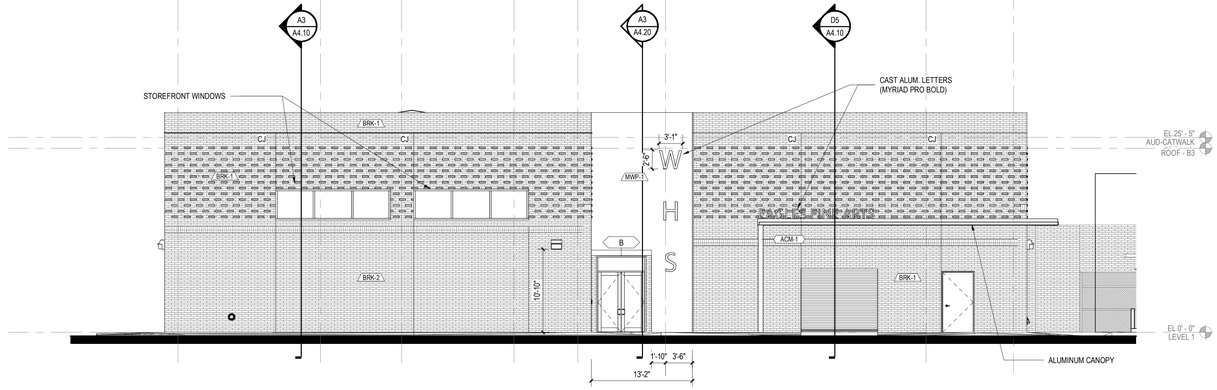


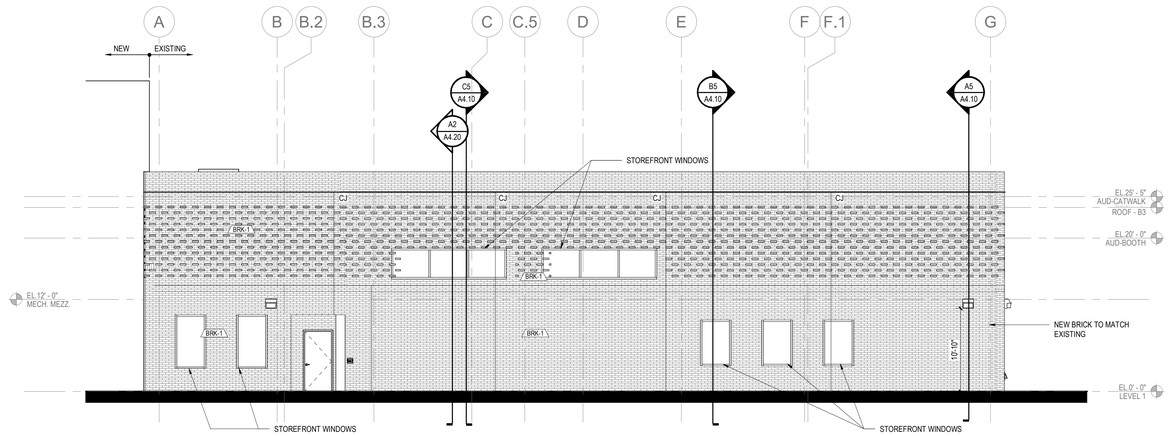
1/8" = 1'-0"

NORTH ELEVATION - ADDITION | C5



1/8" = 1'-0"

EAST ELEVATION - ADDITION | B5



1/8" = 1'-0"

SOUTH ELEVATION -ADDITION | A5

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24625
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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS

SHEET NUMBER

A3.10

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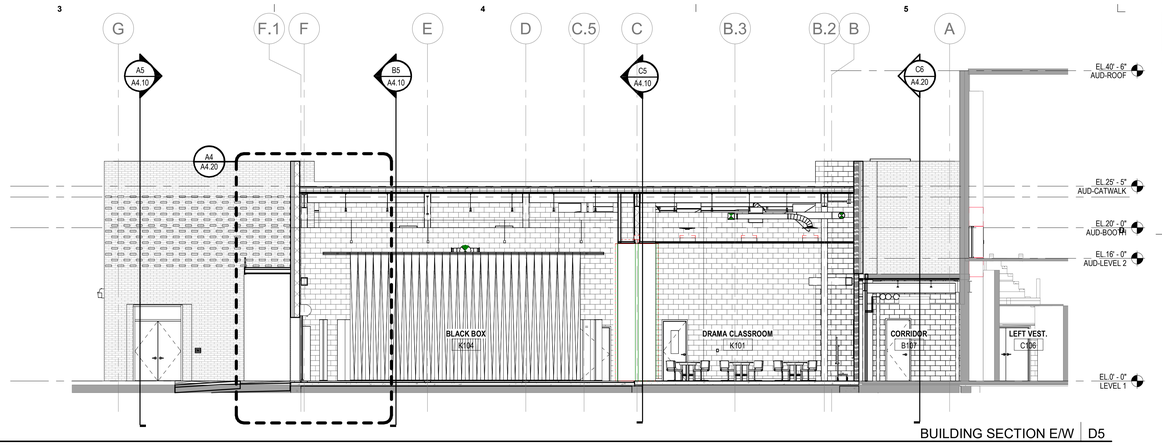
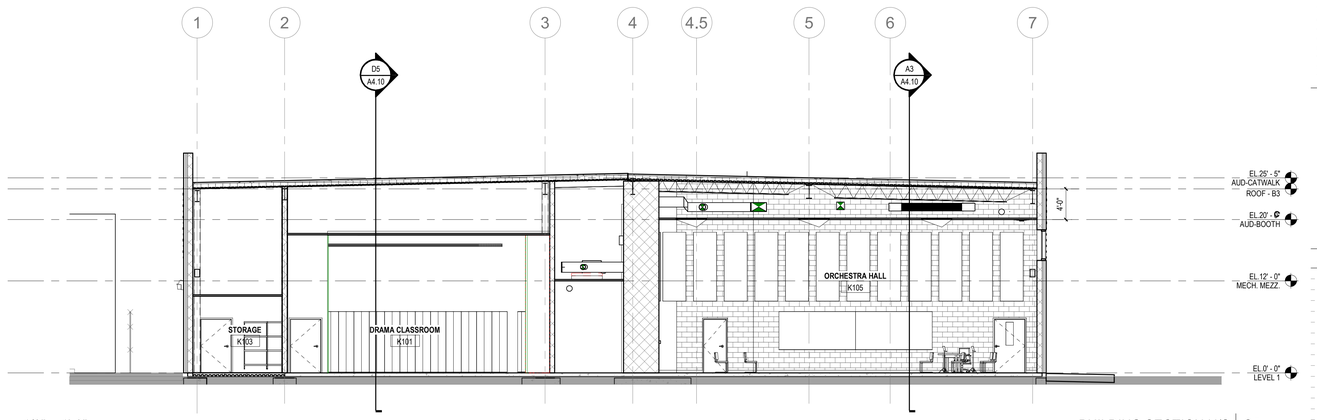


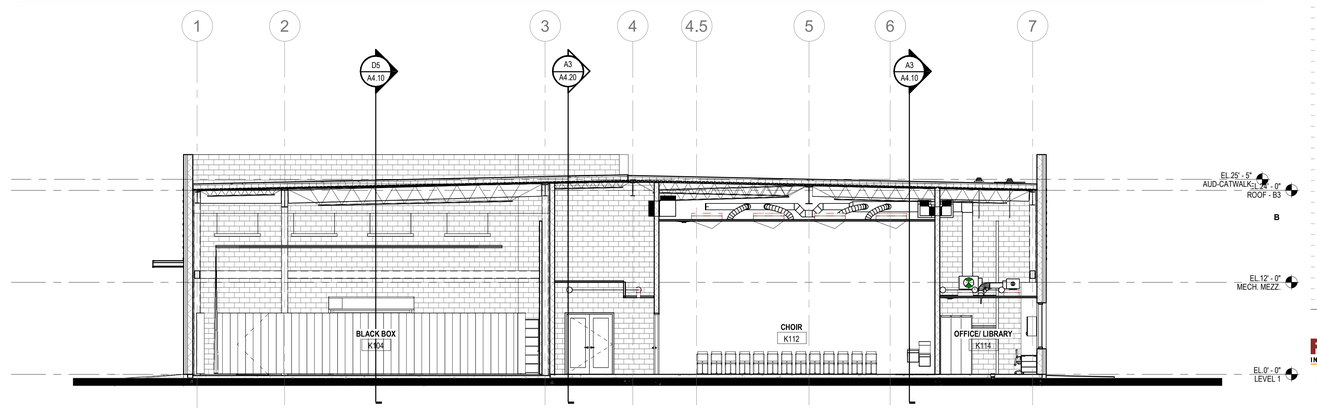
1/8" = 1'-0"

BUILDING SECTION E/W | D5



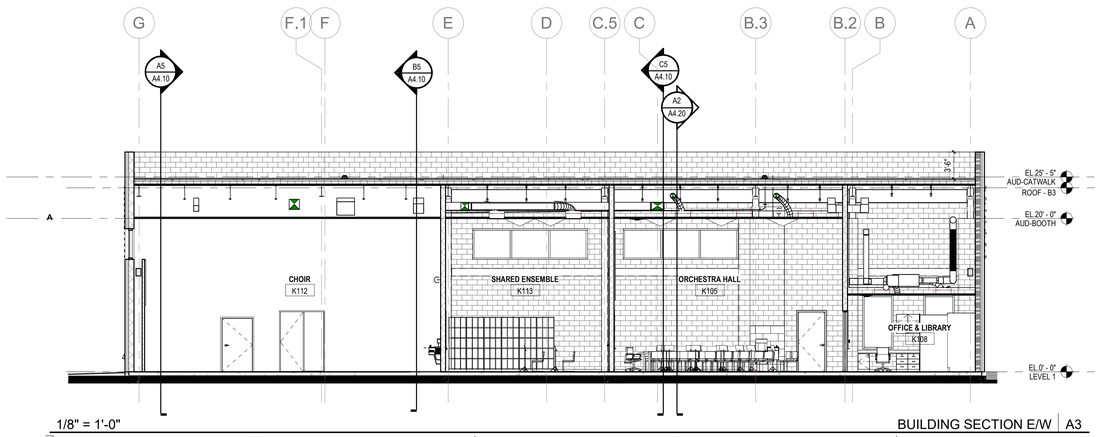
1/8" = 1'-0"

BUILDING SECTION N/S | C5



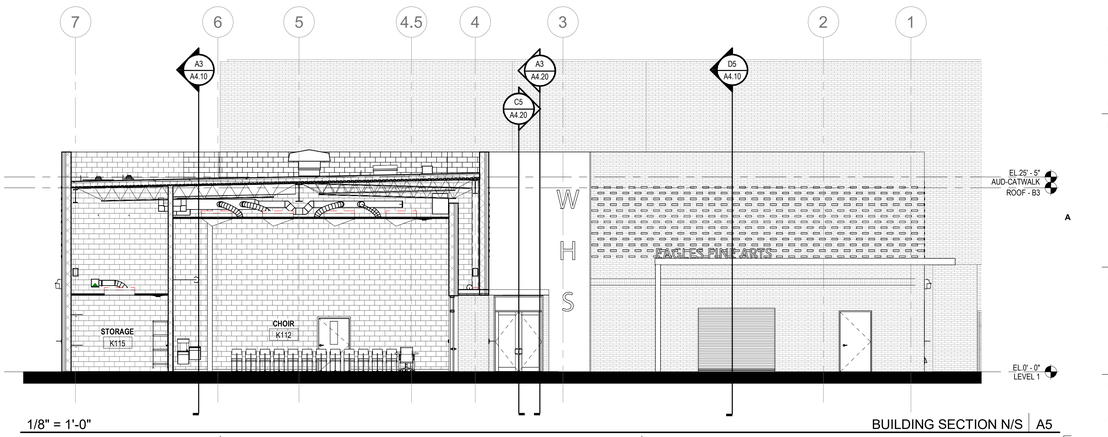
1/8" = 1'-0"

BUILDING SECTION N/S | B5



1/8" = 1'-0"

BUILDING SECTION E/W | A3



1/8" = 1'-0"

BUILDING SECTION N/S | A5

Kirksey ARCHITECTURE

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REGISTERED ARCHITECT JOHN L. SERIO Sealed 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND INDEPENDENT SCHOOL DISTRICT 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

BUILDING SECTIONS

SHEET NUMBER

A4.10

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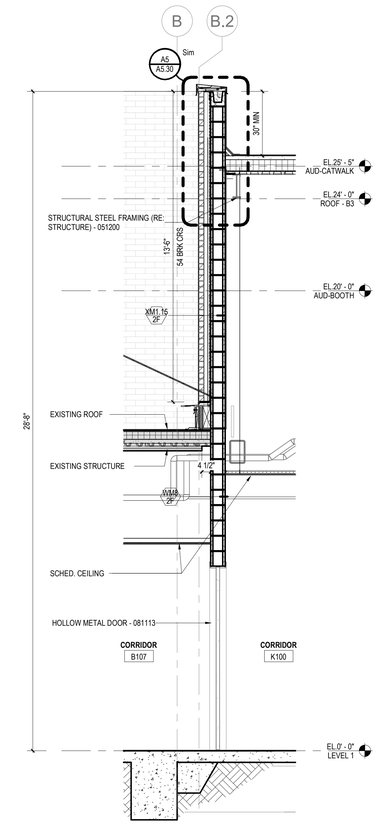
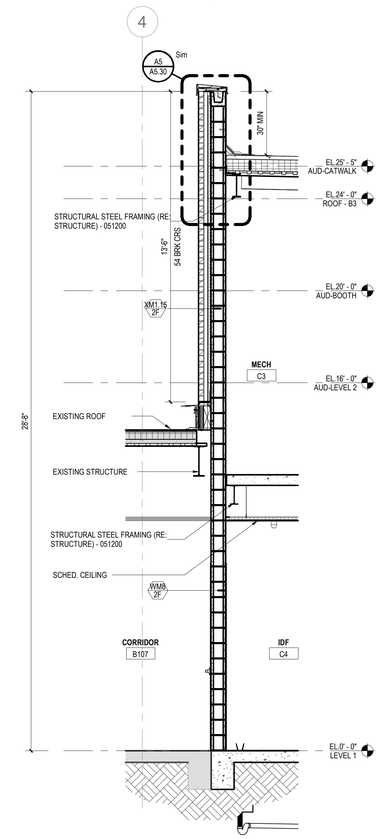
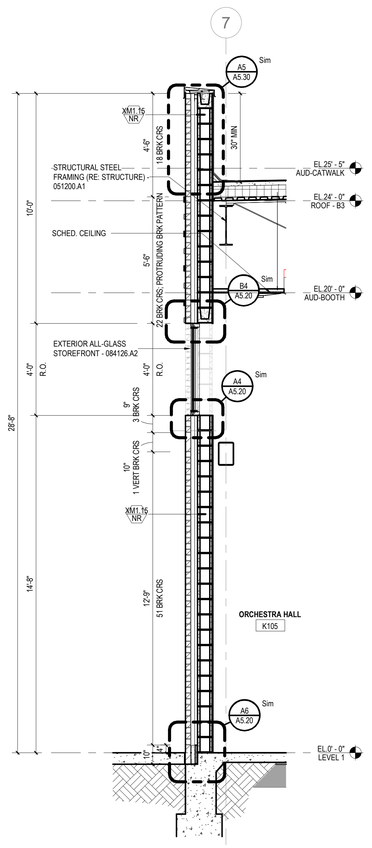


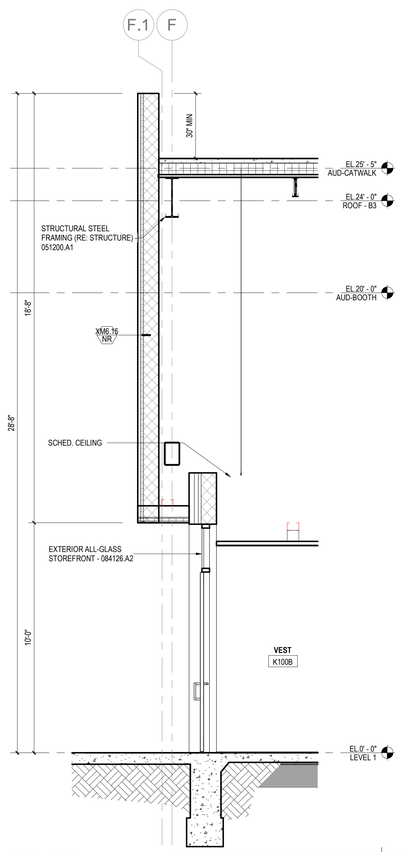
3/8" = 1'-0" WALL SECTION AT FIRE DOOR | C5



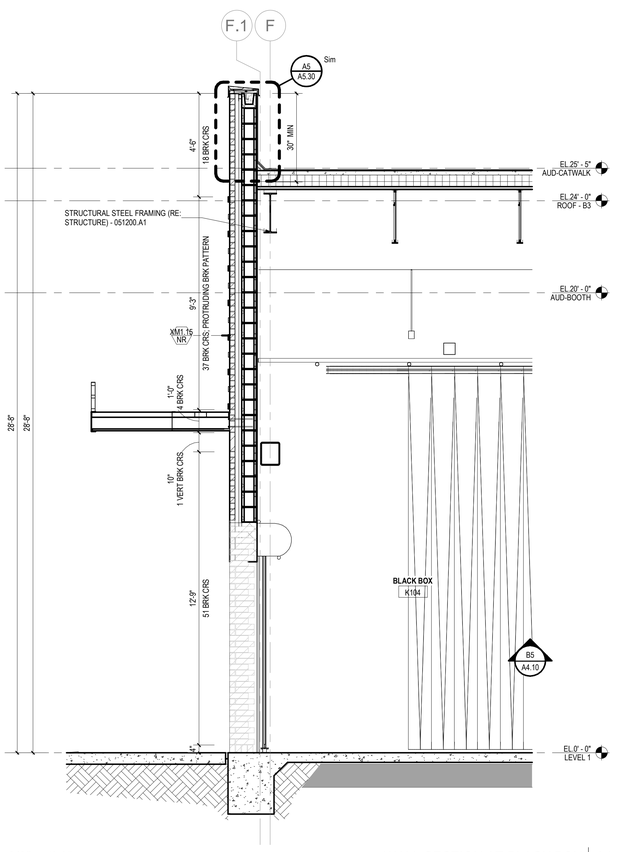
3/8" = 1'-0" WALL SECTION AT IDF | C6



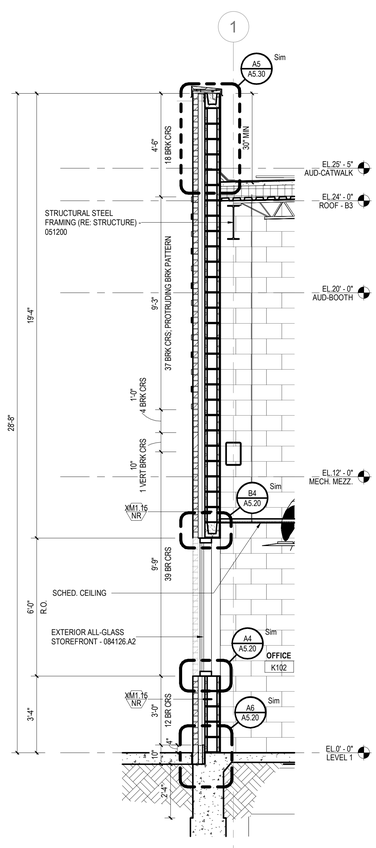
3/8" = 1'-0" WALL SECTION AT ORCHESTRA HALL | A2



3/8" = 1'-0" WALL SECTION AT EAST ENTRY | A3



3/8" = 1'-0" WALL SECTION AT BLACK BOX | A4



3/8" = 1'-0" WALL SECTION AT OFFICE | A5

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REGISTERED ARCHITECT
JOHN L. SERAFY
24625
STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

WALL SECTIONS

SHEET NUMBER

A4.20

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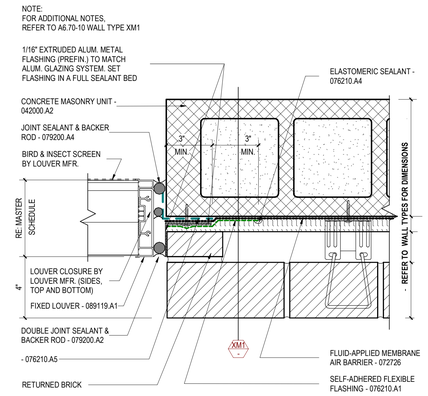
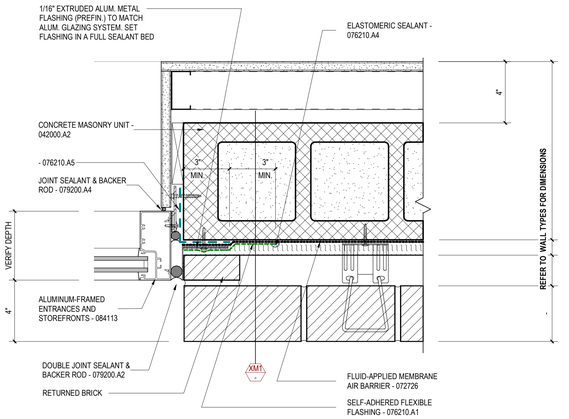
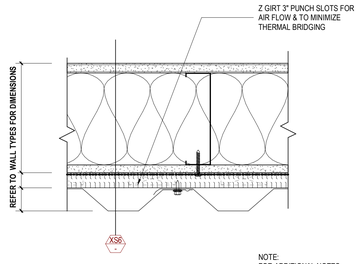


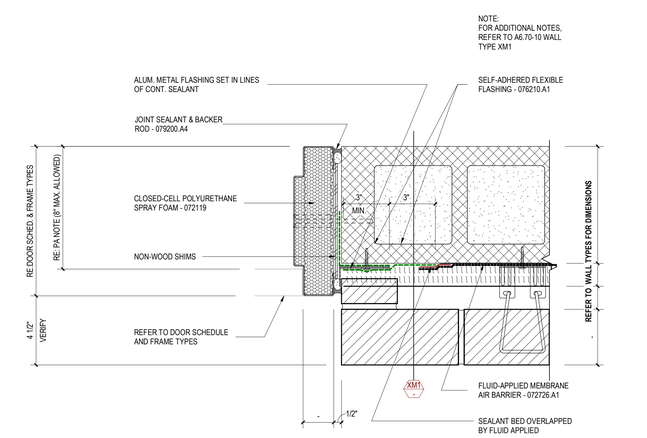
3" = 1'-0" LOUVER PLAN DETAIL | C5



3" = 1'-0" BRICK WINDOW JAMB | B5



3" = 1'-0" TYP. PLAN DETAIL | A4



3" = 1'-0" BRICK H.M. FRAME JAMB DETAIL | A5

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REGISTERED ARCHITECT
JOHN L. SERGI
24625
STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025 2029

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

EXTERIOR PLAN DETAILS

SHEET NUMBER

A5.10

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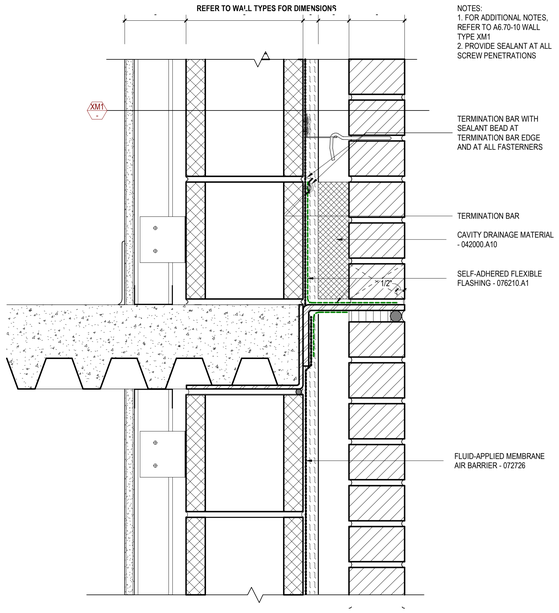
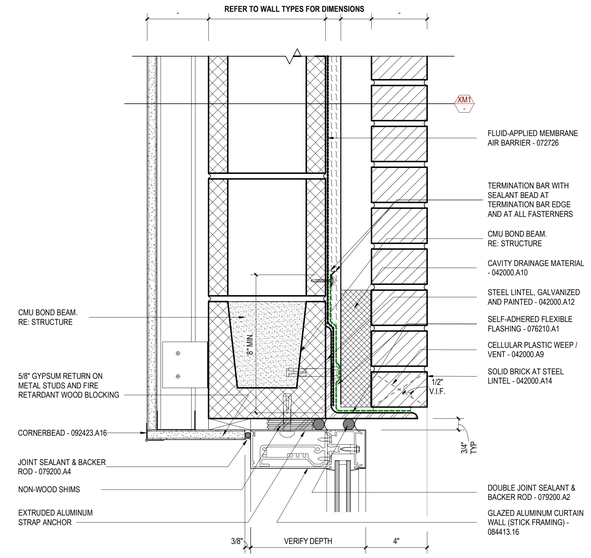
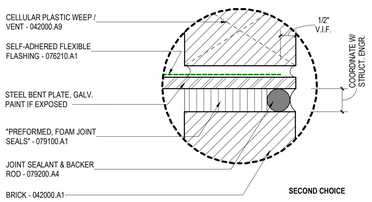
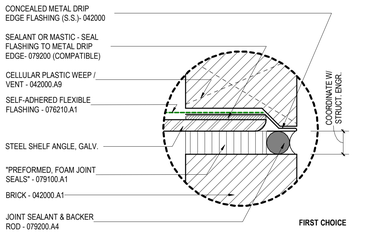


3" = 1'-0" BRICK SHELF ANGLE DETAIL | B2

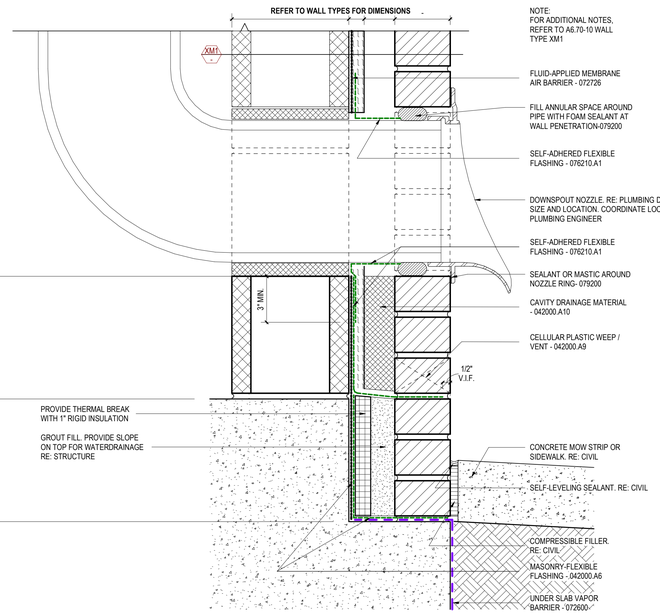


3" = 1'-0" BRICK WINDOW HEAD | B4

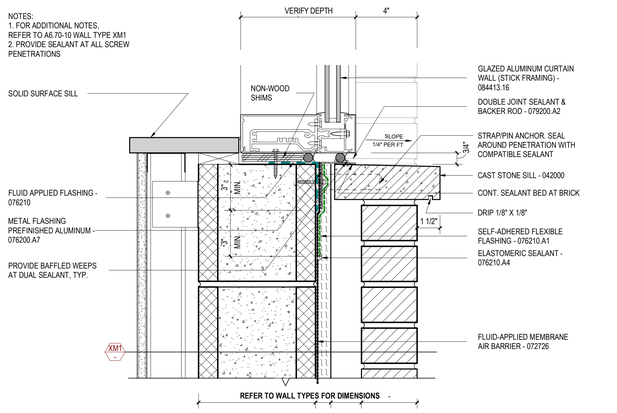




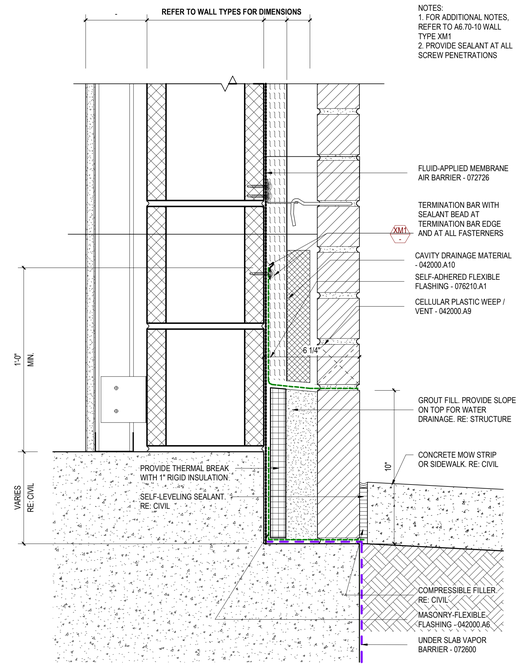
6" = 1'-0" BRICK ANGLE DETAILS | 7



3" = 1'-0" OVERFLOW NOZZLE | A2 3" = 1'-0"



BRICK WINDOW SILL | A4 3" = 1'-0"



SECTION DETAIL @ WALL FOUNDATION | A6

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REGISTERED ARCHITECT JOHN L. SERPA Sealed & Signed STATE OF TEXAS 24625

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND 2023 INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
EXTERIOR SECTION DETAILS

SHEET NUMBER
A5.20

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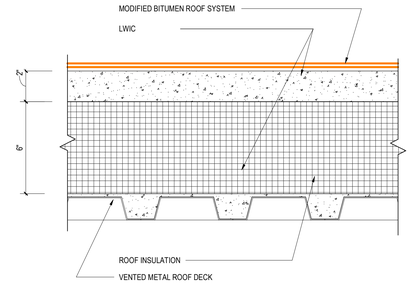
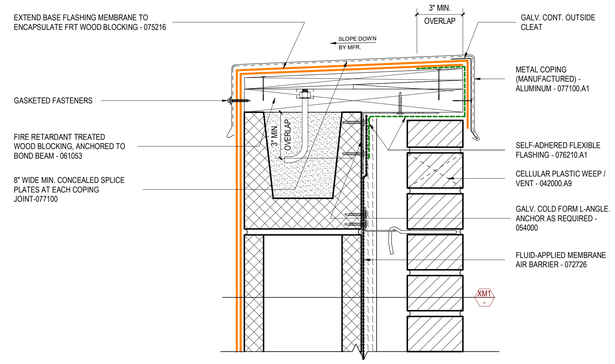


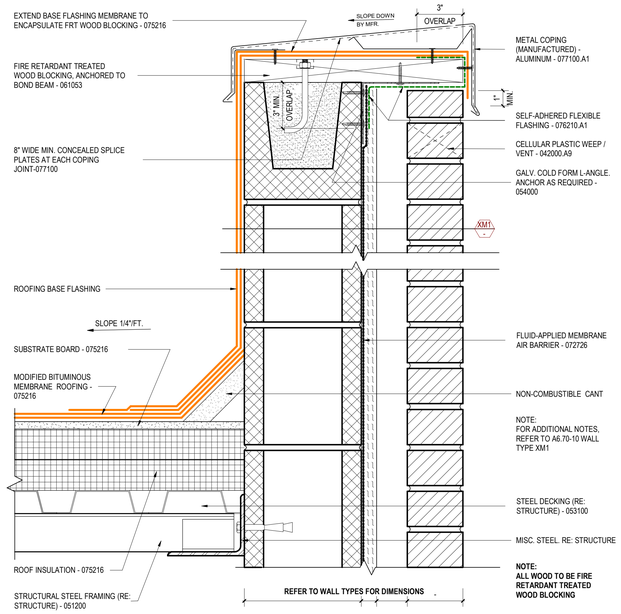
NOTE: MOST STRINGENT R-VALUE NUMBERS ARE BASED ON 2015 IECC, TABLE C402 AND 2013 ASHRAE, TABLE 5.5-1

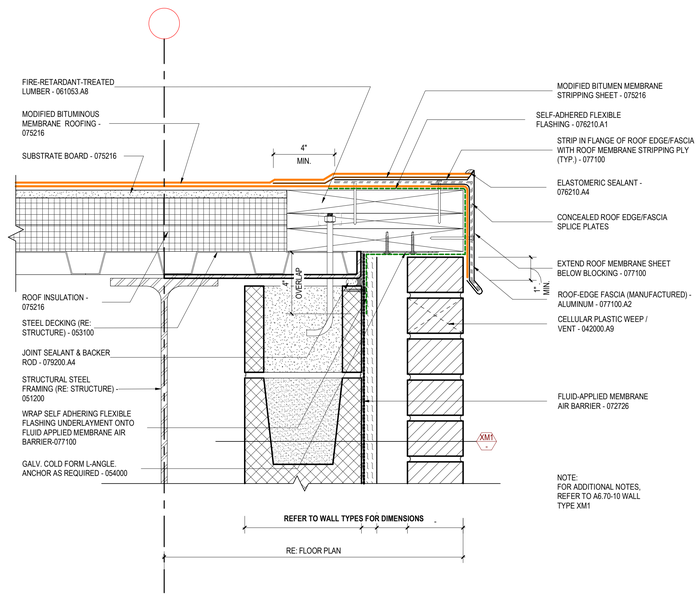
TYPE	CONT. INSUL. THICKNESS "B"	R VALUE	FIRE RATING	ZONE	NOTES
MB1	AS REQ.	R-26	-	2	ABOVE ROOF DECK

3" = 1'-0" MB1 - MODIFIED BITUMEN ROOF TYPE | D5



OPTIONAL COPING DETAIL (SHOP FABRICATED) B5





3" = 1'-0" BRICK ROOF EDGE | A4

3" = 1'-0" BRICK PARAPET | A5

Kirksey ARCHITECTURE

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REGISTERED ARCHITECT JOHN L. SERGI 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ROOF DETAILS

SHEET NUMBER

A5.30

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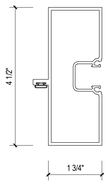
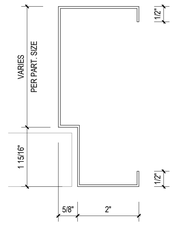
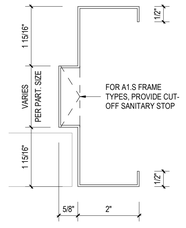


F1 08 41 16
STOREFRONT ALUMINUM FRAME EXTERIOR



A3 08 11 13
HOLLOW METAL FRAME SINGLE RABBET



A1 08 11 13
HOLLOW METAL FRAME EQUAL RABBET

6" = 1'-0"

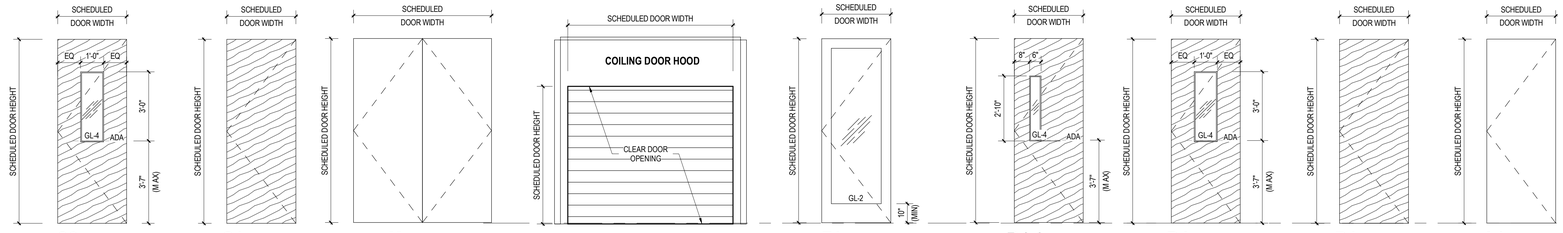
FRAME TYPES | C3

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR FINISH	DOOR WIDTH	DOOR HEIGHT	NO. OF LEAVES	FRAME TYPE	FRAME FINISH	FRAME ELEVATION	DETAILS HEAD RE:	DETAILS JAMB RE:	DETAILS SILL RE:	HDWR. NO	FIRE RATING	TO ROOM: NUMBER	KEYING	COMMENTS
A201B	B4.1		3' - 0"	7' - 0"	1	A1						553		A201		NEW DOOR IN EXISTING WALL
A202A	A1		3' - 0"	7' - 0"	1	A1						503		A205		NEW DOOR IN EXISTING WALL
A206A	B4.1		3' - 0"	7' - 0"	1	A1						553		A206		NEW DOOR IN EXISTING WALL
B105A	S2		3' - 0"	7' - 0"	1	A1						S503		B105A		NEW STC 52 DOOR IN EXISTING WALL
B105B	S2		3' - 0"	7' - 0"	1	A1						S503		B105B		NEW STC 52 DOOR IN EXISTING WALL
B106A	B1		3' - 0"	7' - 0"		A1		1				553		B100B		NEW DOOR IN EXISTING WALL
B106B	B1		3' - 0"	7' - 0"		A1		1				553		B100C		NEW DOOR IN EXISTING WALL
B107A	S2		3' - 0"	7' - 0"	1	A1						S503		B107A		NEW STC 52 DOOR IN EXISTING WALL
B107B	S2		3' - 0"	7' - 0"	1	A1						S503		B107B		NEW STC 52 DOOR IN EXISTING WALL
B107C	S2		3' - 0"	7' - 0"	1	A1						S503		B107C		NEW STC 52 DOOR IN EXISTING WALL
B107D	S2		3' - 0"	7' - 0"	1	A1						S503		B107D		NEW STC 52 DOOR IN EXISTING WALL
B110A	S2		4' - 0"	7' - 10"	1	A1						S701		B100A		STC 52 DOOR/GLAZING CONSTRUCTION
B110B	B1	PT-#	6' - 0"	8' - 0"	2	B1	PT-#									EXISITNG DOOR, RECEIVE NEW CARD READER, DOOR POSTION SENSOR
B110C	S2		4' - 0"	7' - 10"	1	A1						S503		B111		STC 52 DOOR/GLAZING CONSTRUCTION
B110D			15' - 0"	10' - 0"										B107		
B111A	A1	PT-#	3' - 0"	7' - 0"	1	A1	PT-#					203		B111		
B111C	A1		4' - 0"	7' - 10"	1	A1						C715		EXTERIOR		NEW DOOR IN EXISTING WALL, CARD READER, DOOR POSTITION SENSOR
B111D			8' - 0"	8' - 0"								001		EXTERIOR		OVERHEAD DOOR, PROVIDE GATE CONTACTS
B112A	S1		3' - 0"	7' - 10"		A1		1				S503		B112		STC 48 DOOR/GLAZING CONSTRUCTION
B112B	S1		3' - 0"	7' - 10"		A1		1				S503		B112		STC 48 DOOR/GLAZING CONSTRUCTION
B113	B1		4' - 0"	7' - 10"	1	A1						203W		B113		
B114	B1		5' - 4"	7' - 10"	2	A1						212S		B110		
B115A	S2		4' - 0"	7' - 10"	1	A1						S553		B115		STC 52 DOOR/GLAZING CONSTRUCTION
B115B	S2		3' - 0"	7' - 10"	1	A1						S553		B115		STC 52 DOOR/GLAZING CONSTRUCTION
B116A	S2		3' - 0"	7' - 10"	1	A1						S701		B116		STC 52 DOOR/GLAZING CONSTRUCTION
B116B	S2		3' - 0"	7' - 10"	1	A1						S701		B116		STC 52 DOOR/GLAZING CONSTRUCTION
B117	B1		3' - 0"	7' - 0"	1	A1						203S		B117		
B118	B1		3' - 0"	7' - 0"	1	A1						203G		B118		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
B119A	B1		3' - 0"	7' - 10"		A1		1				S503		B116		STC 48 DOOR/GLAZING CONSTRUCTION
B119B	B1		3' - 0"	7' - 10"		A1		1				S503		B115		STC 48 DOOR/GLAZING CONSTRUCTION
B119E			3' - 0"	1' - 0 19/32"								003				ROOF HATCH, DOOR POSITION SENSOR
C4	A1		3' - 0"	8' - 0"	1	A1						C201	90 MIN	C4		CARD READER, DOOR POSITION SENSOR
C105A	A1		6' - 0"	7' - 0"	2	A1						710MGC		C105		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C105B	A1		6' - 0"	7' - 0"	2	A1						800VG		C110		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C106A	A1		6' - 0"	7' - 0"	2	A1						710MGC		C106		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C106B	A1		6' - 0"	7' - 0"	2	A1						800VG		C110		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C201A	A1		3' - 0"	7' - 0"	1	A1						711G		C201		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C201B	A1		3' - 0"	7' - 0"	1	A1						711G		C201		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C201C	A1		3' - 0"	7' - 0"	1	A1						711G		C201		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
C201D	A1		3' - 0"	7' - 0"	1	A1						711G		C201		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
K100A	M		8' - 0"	8' - 0"								720DRHW	90 MIN	K100		
K100B	F1		6' - 0"	7' - 10"	2	F1						710MAC		K100B		
K100C	F1		6' - 1"	7' - 10 1/4"		F1						C714MA		EXTERIOR		CARD READER, DOOR POSITION SENSOR
K101A	S2		3' - 0"	7' - 10"	1	A1						S701		K101		STC 52 DOOR/GLAZING CONSTRUCTION
K101B	S1		4' - 0"	7' - 0"	1	A1						S503		K104		STC 48 DOOR CONSTRUCTION
K102	B1		3' - 0"	7' - 10"		A1		1				S503		K102		SOLID CORE DOOR WITH FRAME/FLOOR SEALS; MIN STC 35 GLAZING
K103A	B1		4' - 0"	7' - 0"	1	A1						203GW		K103		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
K103B	B1		4' - 0"	7' - 0"	1	A1						203GW		K104		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
K104A	S1		4' - 0"	7' - 0"	1	A1						S701		K104		STC 52 DOOR CONSTRUCTION
K104B	A1		4' - 0"	7' - 10"	1	A1						C715		EXTERIOR		CARD READER, DOOR POSITION SENSOR
K104C			10' - 0"	10' - 0"								001		K104		OVERHEAD DOOR, PROVIDE GATE CONTACTS
K105A	S2		4' - 0"	7' - 10"	1	A1						S701		K105		STC 52 DOOR/GLAZING CONSTRUCTION
K105B	A1		3' - 6"	7' - 10"	1	A1						C715		K105		CARD READER, DOOR POSITION SENSOR
K106	B4		4' - 0"	7' - 10"	1	A1						203TW		K106		
K107	S2		4' - 0"	7' - 10"	1	A1						203GT		K105		STC 52 DOOR/GLAZING CONSTRUCTION
K108	B1		3' - 0"	7' - 10"		A1		1				503GTW		K108		SOLID CORE DOOR WITH FRAME/FLOOR SEALS; MIN STC 35 GLAZING
K110	S2		3' - 0"	7' - 10"	1	A1						S503		K110		STC 52 DOOR/GLAZING CONSTRUCTION
K111	S2		3' - 0"	7' - 10"	1	A1						S503		K100		STC 52 DOOR/GLAZING CONSTRUCTION
K112A	S2		4' - 0"	7' - 10"	1	A1						S701		K100		STC 52 DOOR/GLAZING CONSTRUCTION
K112B	A1		6' - 0"	7' - 10"		A1		B				C714M		EXTERIOR		CARD READER, DOOR POSITION SENSOR
K113	B1		3' - 0"	7' - 0"	1	A1						203G		K113		SOLID CORE DOOR WITH FRAME/FLOOR SEALS
K113A	S2		4' - 0"	7' - 0"	1	A1						S503		K105		STC 52 DOOR/GLAZING CONSTRUCTION
K113B	S2		4' - 0"	7' - 0"	1	A1						S503		K112		STC 52 DOOR/GLAZING CONSTRUCTION
K114	B1		3' - 0"	7' - 10"		A1		1				S503		K112		SOLID CORE DOOR WITH FRAME/FLOOR SEALS; MIN STC 35 GLAZING
K115	B1		4' - 0"	7' - 0"	1	A1						203W		K115		
M4	A1		3' - 0"	7' - 0"	1	A1						201C	90 MIN	M4		
M4A			3' - 0"	1' - 0 19/32"								003				ROOF HATCH, DOOR POSITION SENSOR

EXISITNG DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR FINISH	DOOR WIDTH	DOOR HEIGHT	NO. OF LEAVES	FRAME TYPE	FRAME FINISH	FRAME ELEVATION	DETAILS HEAD RE:	DETAILS JAMB RE:	DETAILS SILL RE:	HDWR. NO	FIRE RATING	TO ROOM: NUMBER	KEYING	COMMENTS
A210B	B4.1		3' - 0"	7' - 0"	1	A1						553X				EXISITNG DOOR, 180 DEGREE HINGES
C118	B1	PT-#	6' - 0"	11' - 10 1/2"	2	B1	PT-#					212X		77		EXISITNG DOOR, RECEIVE NEW LOCKS
C119	B1	PT-#	6' - 0"	9' - 10 1/2"	2	B1	PT-#					212X		84		EXISITNG DOOR, RECEIVE NEW LOCKS



S2 08 34 73
WOOD SOUND CONTROL DOOR

RE: COMMENTS IN DOOR SCHEDULE FOR ACOUSTICAL REQUIREMENTS. VENEER TO MATCH EXISTING DOORS

S1 08 34 73
WOOD SOUND CONTROL DOOR

RE: COMMENTS IN DOOR SCHEDULE FOR ACOUSTICAL REQUIREMENTS. VENEER TO MATCH EXISTING DOORS

M 08 17 13
INTEGRATED METAL DOOR (DOUBLE EGRESS HOLD OPEN 90°

T1 08 33 23
OVERHEAD COILING DOOR

F1 08 41 13 EXTERIOR ALUM. DOOR (WIDE STILE)

B4.1 08 14 16
FLUSH WOOD DOOR WITH LITE

B4 08 14 16
FLUSH WOOD DOOR WITH LITE

RE: COMMENTS IN DOOR SCHEDULE FOR ACOUSTICAL REQUIREMENTS. VENEER TO MATCH EXISTING DOORS

B1 08 14 16
FLUSH WOOD DOOR

A1 08 11 13
HOLLOW METAL DOOR

3/8" = 1'-0"

DOOR TYPES | A4

SDI 250.8 (TABLE 5)

* HARDWARE MOUNTING HEIGHTS GUIDELINES		
LOCKS, LATCHES, ROLLER LATCHES & DOUBLE HANDLE SETS		**38" - 42"** CENTERLINE OF LOCK STRIKE FROM BOTTOM OF FRAME
RIM & MORTISE PANIC DEVICES		
COMBINATION PUSH BAR		CENTERLINE OF **42"** FROM BOTTOM OF FRAME
PULL PLATES		CENTERLINE OF GRIP @ **42"** FROM BOTTOM OF FRAME
HOSPITAL ARM PULL		CENTERLINE OF LOWER BASE IS **45"** FROM BOTTOM OF FRAME WITH GRIP OPEN AT BOTTOM
PUSH PLATES		CENTERLINE OF **45"** FROM BOTTOM OF FRAME
CYLINDRICAL & MORTISE DEADLOCKS		**48"** TO CENTERLINE OF STRIKE FROM BOTTOM OF FRAME, U.O.N.
HINGES	TOP	UP TO 11 3/4" FROM RABBET SECTION OF FRAME TO CENTERLINE OF HINGE
	BOTTOM	UP TO 13" FROM BOTTOM OF FRAME TO CENTERLINE OF HINGE
	INTERMEDIATE	EQUALLY SPACED BETWEEN TOP & BOTTOM HINGES

*** DOOR AND HARDWARE NOTES**

HARDWARE LOCATION ON DOOR TO BE CONTINGENT UPON THE FOLLOWING:

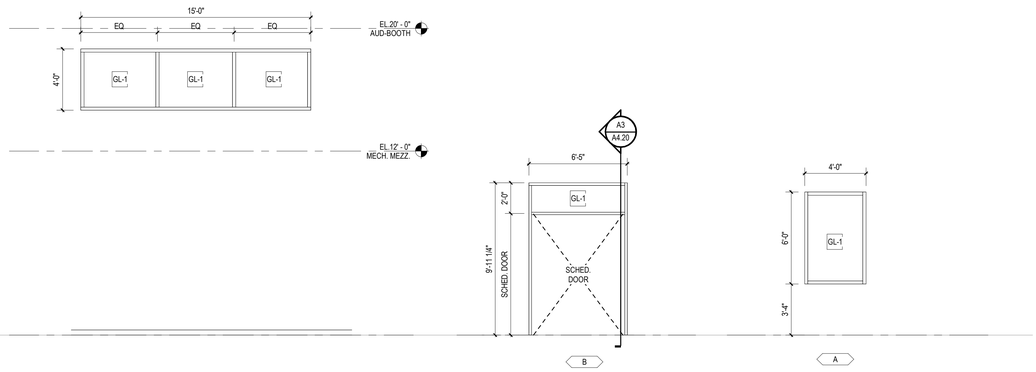
- FINAL LOCATION OF ALL HARDWARE SHALL BE CONTIGENT UPON LOCAL CODES.
- G.C. TO COORDINATE HARDWARE WITH DOOR LITES OR ANY OTHER SPECIAL REQUIREMENTS TO AVOID CONFLICT.
- G.C. TO COORDINATE DOOR AND DOOR HARDWARE WITH MANUFACTURER'S REQUIREMENTS

1/2" = 1'-0"

DOOR HARDWARE MOUNTING HTS | A5

1/4" = 1'-0"

INTERIOR WINDOW TYPES | 7



1/4" = 1'-0"

EXTERIOR WINDOW TYPES | 4

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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REGISTERED ARCHITECT — JOHN L. SERAFY — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND 2020 BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

DOOR SCHEDULE, DOOR LEAF, & FRAME TYPE, WINDOW TYPES AND GLAZING SCHEDULE

SHEET NUMBER

A6.20

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9/16/2025 6:07:47 PM Autodesk Docs://2023306 Willowridge High School/ARCH_Willowridge High School_2024.rvt

Hardware Group No. 001 - OH DOOR

PROVIDE EACH RU DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R QTY REQD	626	SCH
1	EA	SFIC MORT CYLINDER	80-132 W/KEYED CONST. CORE QTY/TYPE REQD	626	SCH
	EA	NOTE	REMAINDER OF HARDWARE BY DOOR MFR.		

-COORDINATE HARDWARE WITH DOOR MFR.

Hardware Group No. 003 - ROOF HATCH

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	EA	ALL HW BY OTHERS			B/O

Hardware Group No. 201C - SGL STORAGE CLOSER

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH TBSRT	689	LCN
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 203G - SGL STORAGE

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR BOTTOM	369AA/3551AA-Z49 (WD/MD AS REQ)	AA	ZER

Hardware Group No. 203GT - SGL STORAGE

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR BOTTOM	369AA/3551AA-Z49 (WD/MD AS REQ)	AA	ZER

Hardware Group No. 203GW - SGL STORAGE

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR BOTTOM	369AA/3551AA-Z49 (WD/MD AS REQ)	AA	ZER

Hardware Group No. 203S - SGL STORAGE OH STOP

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 203SGW - SGL STORAGE OH STOP

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR BOTTOM	369AA/3551AA-Z49 (WD/MD AS REQ)	AA	ZER

Hardware Group No. 203TW - SGL STORAGE

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 203W - SGL STORAGE

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 212S - PAIR STORAGE OH STOP

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8	EA	HINGE	5BB1HW 4.5 X 4.5 NRP QTY/SIZE REQD	652	IVE
2	EA	SURFACE BOLT	SB360 12" T	604	IVE
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
2	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	OVERLAPPING ASTRAGAL	383AA-DOOR HEIGHT	AA	ZER

Hardware Group No. 212X - PAIR STORAGE - REPLACE LOCKSET ONLY

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	L9080HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
	EA	BALANCE HARDWARE EXISTING TO REMAIN	EXISTING DOOR/FRAME REUSED		B/O

HARDWARE SET IS A GUIDELINE.
GENERAL CONTRACTOR/HW SUPPLIER FIELD-VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTAL/ORDERING. PROVIDE/REPLACE ALL PRODUCTS/COMPONENTS NECESSARY FOR COMPLETE, FUNCTIONING COMPLIANT OPENING. ADVISE ARCHITECT OF ANY INCOMPATIBILITY REGARDING DOOR/FRAME/HARDWARE. GC AND HARDWARE SUPPLIER TO REVIEW ALL OPENINGS/HARDWARE SETS WITH OWNER/ARCHITECT AT LATER DATE TO DETERMINE EXACT REQUIREMENTS.
IN SUBMITTAL PROVIDE NAME, COMPANY AND DATE OF FIELD VERIFICATION. REPLACE ANY EXISTING MECHANICAL/ELECTRICAL HARDWARE THAT DOES NOT OPERATE PROPERLY. PROVIDE FILLER/COVER PLATES/BONDO/ETC WHERE REQUIRED.

Hardware Group No. 503 - SGL CLASSROOM LOCK

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	CLASSROOM LOCK	L9070HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 503GTW - SGL CLASSROOM LOCK

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	CLASSROOM LOCK	L9070HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR BOTTOM	369AA/3551AA-Z49 (WD/MD AS REQ)	AA	ZER

Hardware Group No. 503T - SGL CLASSROOM LOCK

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5 QTY/SIZE REQD	652	IVE
1	EA	CLASSROOM LOCK	L9070HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 553 - SGL STORAGE LOCK (CLASSROOM)

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP QTY/SIZE REQD	652	IVE
1	EA	CLASSROOM SECURITY	L9071HD 17A	626	SCH
2	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 710MAC - PAIR EXIT DEV - VEST (ALUM)

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
1	EA	KEYED MULLION	KR4954-STAB-MT54	689	VON
2	EA	PANIC HARDWARE	CD-99-EO-SNB	626	VON
4	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
3	EA	SFIC MORT CYLINDER	80-132 W/KEYED CONST. CORE	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP-SCUSH-SNB	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
	SET	SEAL	PERIMETER SEAL BY FRAME MFR.		
	EA	BALANCE HARDWARE	BY DOOR MFG		B/O

Hardware Group No. 710MGC - PAIR PANIC DEV

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
1	EA	REMOVABLE MULLION	KR4954-STAB-MT54	689	VON
2	EA	PANIC HARDWARE	CD-99-EO-SNB	626	VON
4	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
3	EA	SFIC MORT CYLINDER	80-132 W/KEYED CONST. CORE	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	DOOR PULL	VR910 DT SNB	630	IVE
1	EA	DOOR PULL	VR910 NL SNB	630	IVE
2	EA	SURFACE CLOSER	4040XP-SCUSH-SNB	689	LCN
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	545A-FRAME WIDTH	A	ZER

Hardware Group No. 711G - SGL EXIT DEV ACOUSTIC SEAL / NON-STC RATED

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
1	EA	PANIC HARDWARE	CD-99-EO-SNB	626	VON
2	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SFIC MORT CYLINDER	80-132 W/KEYED CONST. CORE	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	DOOR PULL	VR910 NL SNB	630	IVE
1	EA	SURFACE CLOSER	4040XP-RW/PA/EDA-TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS WHERE APPLICABLE	630	IVE
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
1	EA	DOOR SWEEP	39A-DOOR WIDTH	A	ZER
1	EA	SADDLE THRESHOLD	545-V3-FRAME WIDTH	A	ZER

Hardware Group No. 720DRW - D=DOUBLE EGRESS / MAGNETIC HOLD-OPEN

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
2	EA	FIRE EXIT HARDWARE	9947-EO-F-LBR (WDC @ WD) LENGTH & HEIGHT AS REQ	626	VON
2	EA	SURFACE CLOSER	4040XP-RW/PA/EDA-TBSRT	689	LCN
2	EA	FIRE/LIFE WALL MAG	SEM7800 SERIES AS REQUIRED	689	LCN
1	EA	GASKETING	488S PSA H & J	BK	ZER
1	EA	OVERLAPPING ASTRAGAL	383AA/383FSAA AS REQ (OMIT WHERE SUPPLIED BY DOOR MFR)	AA	ZER

DOORS TO RELEASE UPON FIRE ALARM ACTIVATION

Hardware Group No. 800VG - PAIR PANIC DEV

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
2	EA	DUMMY PUSH BAR	330	626	VON
2	EA	DOOR PULL	VR910 DT SNB	630	IVE
2	EA	SURFACE CLOSER	4040XP-SCUSH-SNB	689	LCN
1	EA	MEETING STILE	328AA (2 PCS - 1 SET) HEIGHT AS REQUIRED	AA	ZER
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	JAMB SEAL	870AA-S (2PCS JAMB HEIGHT)	AA	ZER
2	EA	DOOR SWEEP	39A-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	545A-FRAME WIDTH	A	ZER

Hardware Group No. C201 - SGL LOCK - ACCESS CONTROLLED (WHERE NOTED AND IDF/MDF)

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5 NRP QTY/SIZE REQD	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092HDEU 17A CON 12/24 VDC	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SURFACE CLOSER	4040XP-RW/PA/EDA-TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	VARIABLE LENGTH WIRE HARNESS	CON-XXP LENGTH AS REQ		SCH
1	EA	WIRING HARNESS (6")	CON-6W (FOR CONNECTION TO FIELD WIRING)		SCH
	EA	POWER SUPPLY	BY SECURITY CONTRACTOR		B/O
	EA	CREDENTIAL READER	BY SECURITY CONTRACTOR		B/O
	EA	DOOR CONTACT	BY SECURITY CONTRACTOR		B/O

Hardware Group No. C714M - PAIR EXIT DEV EXTERIOR (HM) ACCESS CONTROLLED

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	700-HEIGHT REQD	630	IVE
1	EA	CONT. HINGE	700 EPT-HEIGHT REQD	630	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	QEL-99-EO-CON-SNB 24 VDC	626	VON
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP-SCUSH-SNB	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS WHERE APPLICABLE	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	JAMB SEAL	328AA-2PC-JAMB HEIGHT	AA	ZER
1	EA	HEADER SEAL	429AA-1PC-HEADER WIDTH	AA	ZER
1	EA	DOOR SWEEP	39A-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	655A-EV3-FRAME WIDTH (OR AS DETAILED)	A	ZER
1	EA	VARIABLE LENGTH WIRE HARNESS	CON-XXP LENGTH AS REQ		SCH
1	EA	WIRING HARNESS (6")	CON-6W (FOR CONNECTION TO FIELD WIRING)		SCH
	EA	POWER SUPPLY	BY SECURITY CONTRACTOR		B/O
	EA	CREDENTIAL READER	BY SECURITY CONTRACTOR		B/O
	EA	DOOR CONTACT	BY SECURITY CONTRACTOR		B/O

Hardware Group No. C714MA - PAIR EXIT DEV EXTERIOR (ALUM) ACCESS CONTROLLED

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY HEIGHT AS REQ	628	IVE
1	EA	CONT. HINGE	112XY EPT HEIGHT AS REQ	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	KEYED MULLION	KR4954-STAB-MT54	689	VON
1	EA	PANIC HARDWARE	CD-99-EO-SNB	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-99-EO-CON-SNB 24 VDC	626	VON
3	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
2	EA	SFIC MORT CYLINDER	80-132 W/KEYED CONST. CORE	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP-SCUSH-SNB	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
	SET	SEAL	PERIMETER SEAL BY FRAME MFR.		
	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR MFR.		
2	EA	DOOR SWEEP	39A-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	655A-EV3-FRAME WIDTH (OR AS DETAILED)	A	ZER
1	EA	VARIABLE LENGTH WIRE HARNESS	CON-XXP LENGTH AS REQ		SCH
1	EA	WIRING HARNESS (6")	CON-6W (FOR CONNECTION TO FIELD WIRING)		SCH
	EA	POWER SUPPLY	BY SECURITY CONTRACTOR		B/O
	EA	CREDENTIAL READER	BY SECURITY CONTRACTOR		B/O
	EA	DOOR CONTACT	BY SECURITY CONTRACTOR		B/O

Hardware Group No. C715 - SGL EXIT DEV EXTERIOR (HM) ACCESS CONTROLLED

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	700 EPT-HEIGHT REQD	630	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	QEL-99-EO-CON-SNB 24 VDC	626	VON
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP-TBSRT-MOUNTING/ARM/BRKT A REQD	689	LCN
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
	EA	BALANCE OF HARDWARE	PROVIDED BY SOUND DOOR MFG		B/O
1	EA	STRIKE & CLOSER MOUNTING BRACKETS	328SPB/870SPB/770SPB (AS REQD)		ZER

BASIS OF DESIGN HARDWARE SET
-ALL HARDWARE SPECIFIED MUST BE APPROVED/COORDINATED WITH THE STC DOOR MFR. PRIOR TO ORDERING DOORS, FRAMES AND HARDWARE.
-A STANDARD STC UNIT IS SUPPLIED WITH NECESSARY HINGES, PERIMETER GASKETING AND RETAINER, DOOR BOTTOM, LOOSE STOPS, STOP OFFSET HARDWARE BRACKETS AND ALL REQUIRED FASTENERS.
-CLOSERS WITH EDA OR CUSH (RIGID TYPE ARMS) NOT ALLOWED WITH CAM-LIFT HINGES.

Hardware Group No. S701 - S=STC DOOR - BASIS OF DESIGN HARDWARE SET FOR OTHER MFR I.E.. KREIGER OR OVERLY

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	EA	HINGE/PIVOTS	PROVIDED BY SOUND DOOR MFG		B/O
1	EA	PANIC HARDWARE	99L-17-SNB	626	VON
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	SFIC RIM CYLINDER	80-159 W/KEYED CONST. CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP-TBSRT-MOUNTING/ARM/BRKT A REQD	689	LCN
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
	EA	BALANCE OF HARDWARE	PROVIDED BY SOUND DOOR MFG		B/O
1	EA	STRIKE & CLOSER MOUNTING BRACKETS	328SPB/870SPB/770SPB (AS REQD)		ZER

BASIS OF DESIGN HARDWARE SET
-ALL HARDWARE SPECIFIED MUST BE APPROVED/COORDINATED WITH THE STC DOOR MFR. PRIOR TO ORDERING DOORS, FRAMES AND HARDWARE.
-A STANDARD STC UNIT IS SUPPLIED WITH NECESSARY HINGES, PERIMETER GASKETING AND RETAINER, DOOR BOTTOM, LOOSE STOPS, STOP OFFSET HARDWARE BRACKETS AND ALL REQUIRED FASTENERS.
-CLOSERS WITH EDA OR CUSH (RIGID TYPE ARMS) NOT ALLOWED WITH CAM-LIFT HINGES.

Hardware Group No. S503 - S=STC DOOR - BASIS OF DESIGN HARDWARE SET FOR OTHER MFR I.E.. KREIGER OR OVERLY

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	EA	HINGE/PIVOTS	PROVIDED BY SOUND DOOR MFG		B/O
1	EA	CLASSROOM LOCK	L9070HD 17A	626	SCH
1	EA	SFIC EVEREST PERM CORE	80-037 CKC EV29 R	626	SCH
1	EA	DOOR STOP (TYPE REQD)	WS406/WS407CCV/FS436/OH STOP - AS REQD	626	IVE
	EA	BALANCE OF HARDWARE	PROVIDED BY SOUND DOOR MFG		B/O
1	EA	STRIKE & CLOSER MOUNTING BRACKETS	328SPB/870SPB/770SPB (AS REQD)		ZER

BASIS OF DESIGN HARDWARE SET
-ALL HARDWARE SPECIFIED MUST BE APPROVED/COORDINATED WITH THE STC DOOR MFR. PRIOR TO ORDERING DOORS, FRAMES AND HARDWARE.
-A STANDARD STC UNIT IS SUPPLIED WITH NECESSARY HINGES, PERIMETER GASKETING AND RETAINER, DOOR BOTTOM, LOOSE STOPS, STOP OFFSET HARDWARE BRACKETS AND ALL REQUIRED FASTENERS.
-CLOSERS WITH EDA OR CUSH (RIGID TYPE ARMS) NOT ALLOWED WITH CAM-LIFT HINGES.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

16 SEPTEMBER 2025

	DATE	ISSUE
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND 2020 INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

HARDWARE SCHEDULE

SHEET NUMBER

A6.30

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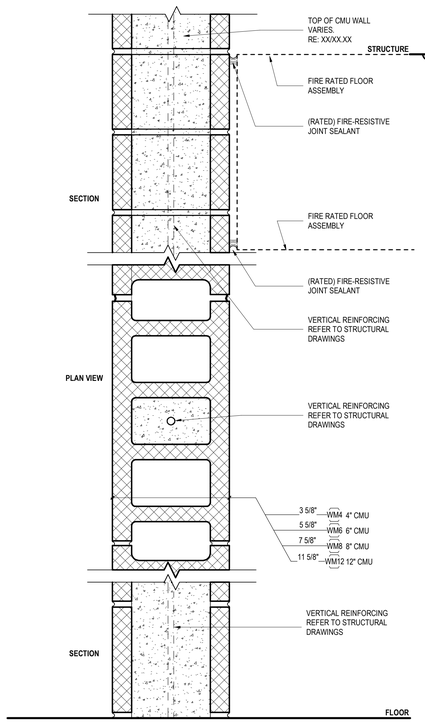
9/16/2025 5:41:58 PM Autodesk Docs://2023306 Willowridge High School/ARCH_Willowridge High School_2024.rvt

TYPE	FIRE RATING	STUD GAUGE	STUD SPACING	LIMITING HEIGHT L/240	LIMITING HEIGHT L/360	ACOUSTIC INSULATION	STC	UL LISTING WALL	UL LISTING BOTTOM
FB2	NR	25	16" O.C.	---	---	---	26	---	---
FB3	NR	25	16" O.C.	---	---	---	26	---	---
FB4	NR	25	16" O.C.	---	---	---	26	---	---

3" = 1'-0" INTERIOR PARTITION TYPE | FB

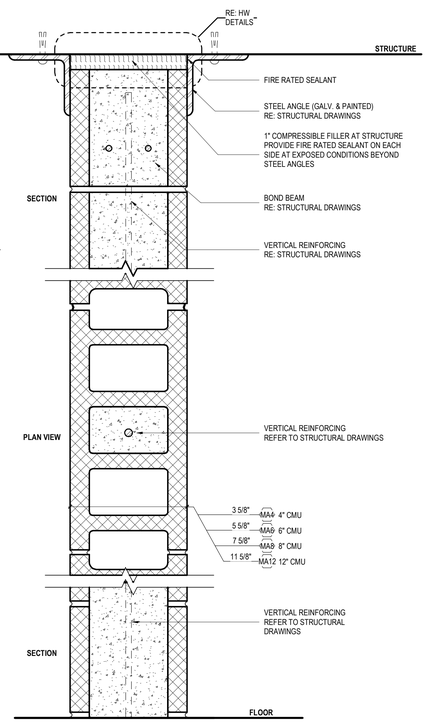
TYPE	FIRE RATING	STUD GAUGE	STUD SPACING	LIMITING HEIGHT L/240	LIMITING HEIGHT L/360	ACOUSTIC INSULATION	STC	UL LISTING WALL	UL LISTING BOTTOM
AB6	NR	25	16" O.C.	19'-9"	17'-11"	6"	50	---	---

3" = 1'-0" INTERIOR PARTITION TYPE | AB



TYPE	FIRE RATING	STUD SIZE	STUD SPACING	LIMITING HEIGHT L/240	LIMITING HEIGHT L/360	ACOUSTIC INSULATION	STC	UL LISTING WALL	UL LISTING BOTTOM
WM4	NR	---	---	---	---	---	36	---	---
WM8	2F	---	---	---	---	---	44	U904	---
WM8	NR	---	---	---	---	---	44	---	---

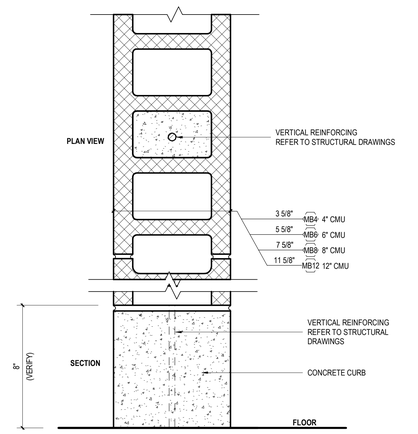
3" = 1'-0" PARTITION TYPE | WM



MA TYPICAL

NOTE:

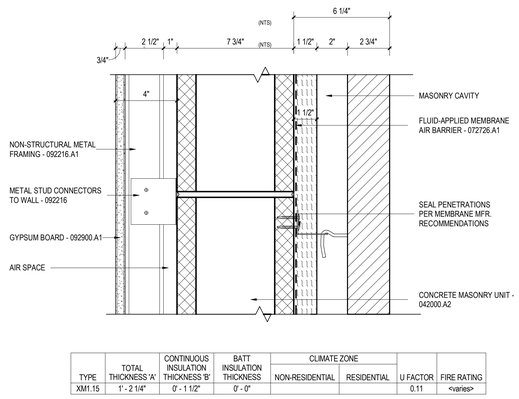
THE ONLY DIFFERENCE BETWEEN PARTITION MA & MB IS THE CONCRETE CURB.



MB CONCRETE CURB AT CMU

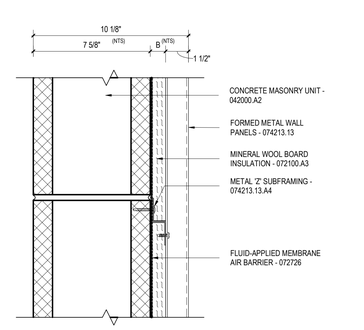
TYPE	FIRE RATING	STUD SIZE	STUD SPACING	LIMITING HEIGHT L/240	LIMITING HEIGHT L/360	ACOUSTIC INSULATION	STC	UL LISTING WALL	UL LISTING BOTTOM
MA4	NR	---	---	---	---	---	36	---	---
MA6	NR	---	---	---	---	---	41	---	---
MA8	NR	---	---	---	---	---	44	---	---

3" = 1'-0" PARTITION TYPE | MA



TYPE	TOTAL THICKNESS 'A'	CONTINUOUS INSULATION THICKNESS 'B'	BATT INSULATION THICKNESS	CLIMATE ZONE NON-RESIDENTIAL	CLIMATE ZONE RESIDENTIAL	U FACTOR	FIRE RATING
XM1.15	1' - 2 1/4"	0' - 1 1/2"	0' - 0"			0.11	<varies>

3" = 1'-0" BRICK - CMU | XM1

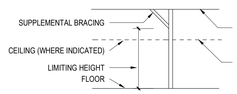


TYPE	TOTAL THICKNESS 'A'	CONTINUOUS INSULATION THICKNESS 'B'	BATT INSULATION THICKNESS	CLIMATE ZONE NON-RESIDENTIAL	CLIMATE ZONE RESIDENTIAL	U FACTOR	FIRE RATING
XM6.15	0' - 11"	0' - 1 1/2"	0' - 0"			0.159	NR

3" = 1'-0" FORMED METAL PANEL- CMU | XM6

1. METAL STUD GAUGE AND SPACING INFORMATION ON PARTITION TYPES SCHEDULE DENOTES MINIMUM GAUGE AND SPACING. REFER TO SPECIFICATION FOR MORE INFORMATION.

2. THE LIMITING HEIGHTS INDICATED IN EACH PARTITION TYPE ARE THE MAXIMUM UNSUPPORTED HEIGHT FOR THAT PARTITION. REFER TO 092216 FOR REQUIREMENTS WHERE PARTITION HEIGHTS EXCEED STUD MANUFACTURER'S RECOMMENDED SPANS.



3. SYMBOL DESCRIPTION

4. ALL PARTITION TYPES SHOWN MAY NOT NEED TO BE FIRE RATED ASSEMBLIES. REFER TO PARTITION SYMBOL AND THE SAFETY PLAN FOR PARTITIONS WHICH MUST BE FIRE RATED.

5. WHENEVER A FIRE RATED PARTITION IS INDICATED ALL ELEMENTS OF THE COMPLETE ASSEMBLY MUST BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY REQUIREMENTS
   a. **SEALANTS USED IN FIRE RATED PARTITIONS MUST MATCH PARTITION RATING.**
6. REFER TO SPECIFICATION 092900 FOR GYPSUM BOARD TYPE / LOCATION SCHEDULE.

7. IF THE BACKER BOARD IS BEING SUBSTITUTED FOR ONE OF THE GYPSUM BOARD LAYERS IT MUST HAVE APPROVED FIRE RATING CERTIFICATION

8. THE STC RATING LISTED ARE TO SERVE AS A GENERAL INDICATOR FOR THE ACOUSTICAL PERFORMANCE OF THAT PARTITION.

9. FOR STC RATED PARTITIONS, REFER TO SCHEDULED PARTITION TYPES, ARCHITECTURAL PLANS, AND WHERE APPLICABLE, ACOUSTICAL SPECIFICATIONS; PROVIDE ANY SCHEDULED ACCESSORY ACOUSTICAL ISOLATION PRODUCTS NECESSARY TO ACHIEVE THE INDICATED STC RATING, INCLUDING (BUT NOT LIMITED TO) RESILIENT HEAD/BASE TRACK ISOLATORS. SHOULD QUESTIONS ARISE, CONSULT ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.

10. ALL PARTITION TYPES INDICATED ON THIS DRAWING MAY NOT NECESSARILY BE USED ON THIS SPECIFIC PHASE OF THE PROJECT.

PARTITION ABBREVIATIONS

PARTITION LEGEND

A FULL HEIGHT TO DECK
C TO CEILING
D DOUBLE STUD/CHASE WALL
F FURRING PARTITIONS
H HORIZONTAL ASSEMBLY
M MASONRY
S SHAFT WALLS
W WOOD WALLS

FIRE & SMOKE PROTECTION

NR= NON RATED
1F = 1 HOUR FIRE RATED
2F = 2 HOUR FIRE RATED
3F = 3 HOUR FIRE RATED

0S = 0 HOUR/SMOKE PARTITION
1S = 1 HOUR/SMOKE BARRIER
2S = 2 HOUR/SMOKE BARRIER
3S = 3 HOUR/SMOKE BARRIER

11. REFER TO LIFE-SAFETY PLANS FOR FIRE/SMOKE MARKING AND IDENTIFICATION.
12. FOR DOOR RATING IN FIRE RATED PARTITIONS, REFER TO IBC: TABLE 716.5 OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS

3" = 1'-0" PARTITION GENERAL NOTES | A5

Kirksey ARCHITECTURE

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REGISTERED ARCHITECT — JOHN L. SERIO — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT — 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTITION DETAILS

SHEET NUMBER

A6.60

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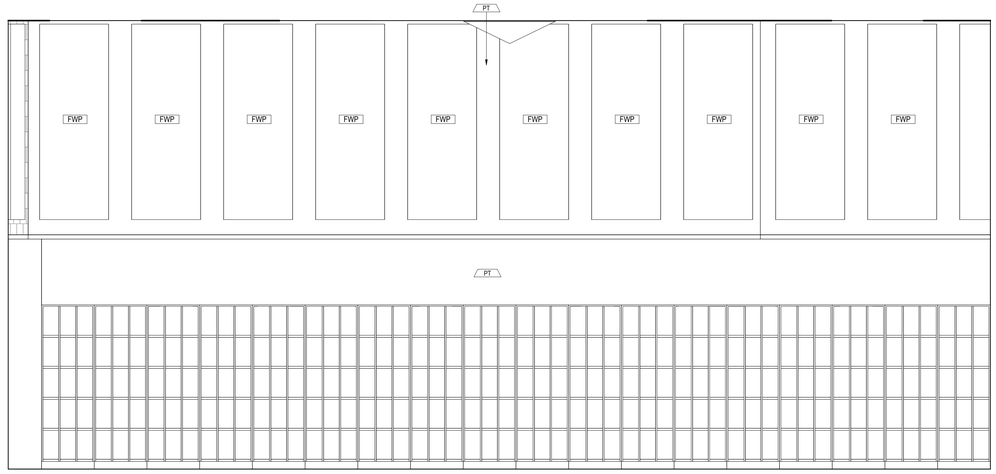
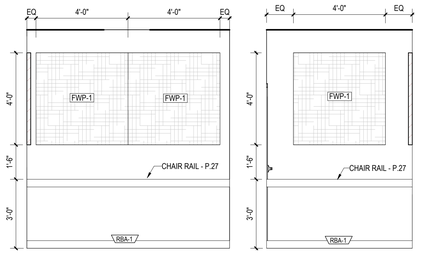
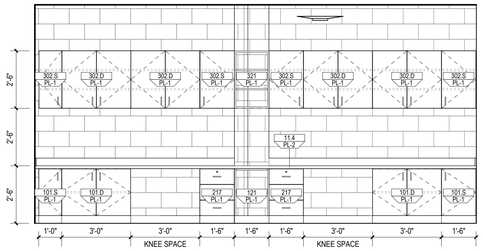


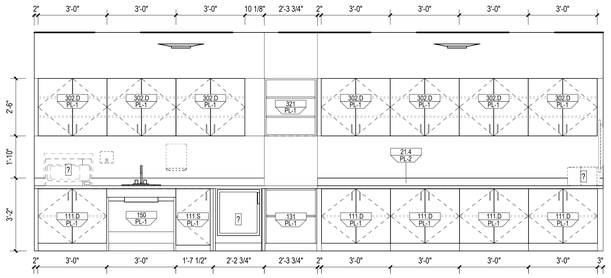
3/8" = 1'-0" BAND HALL B110 S | C3



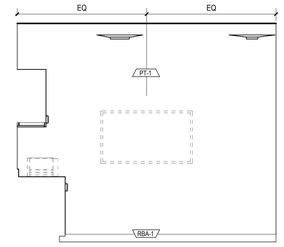
3/8" = 1'-0" PRACTICE ROOM B107B E & S | E4



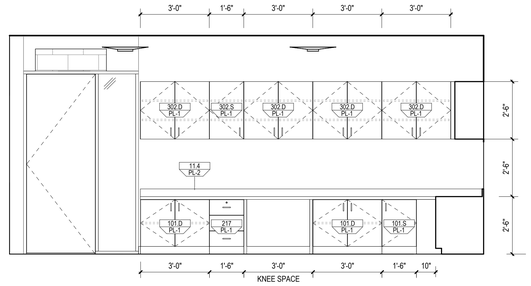
3/8" = 1'-0" MARIACHI OFFICE & LIBRARY B119 W | E5



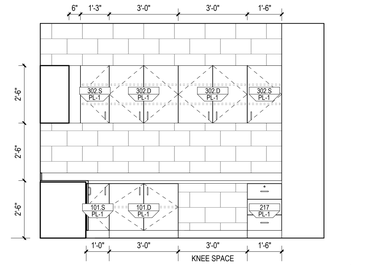
3/8" = 1'-0" PLC B106 W | D4



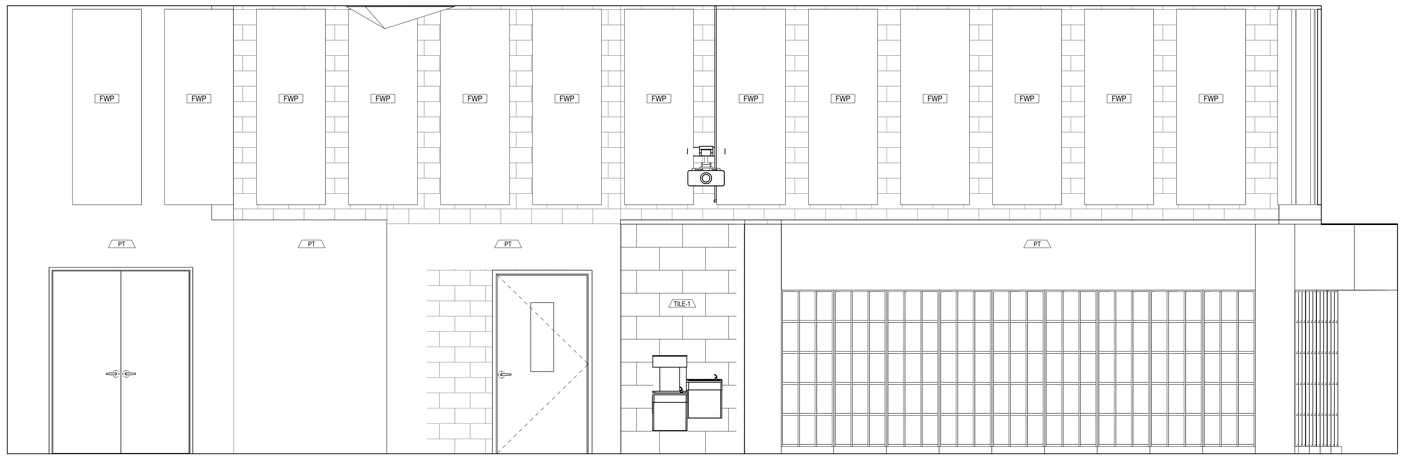
3/8" = 1'-0" PLC 106 N | D5



3/8" = 1'-0" BAND OFFICE & LIBRARY B112 N | C4



3/8" = 1'-0" BAND OFFICE & LIBRARY B112 W | C5



3/8" = 1'-0" BAND HALL B110 E | A4

SHEET NOTES

1. PROVIDE CONTROL JOINTS AT ALL OPENINGS (DOORS, WINDOWS, AND CASED IN DRYWALL PARTITIONS.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024

713 850 9600

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REGISTERED ARCHITECT JOHN L. SERPA 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND 2020 BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A8.10

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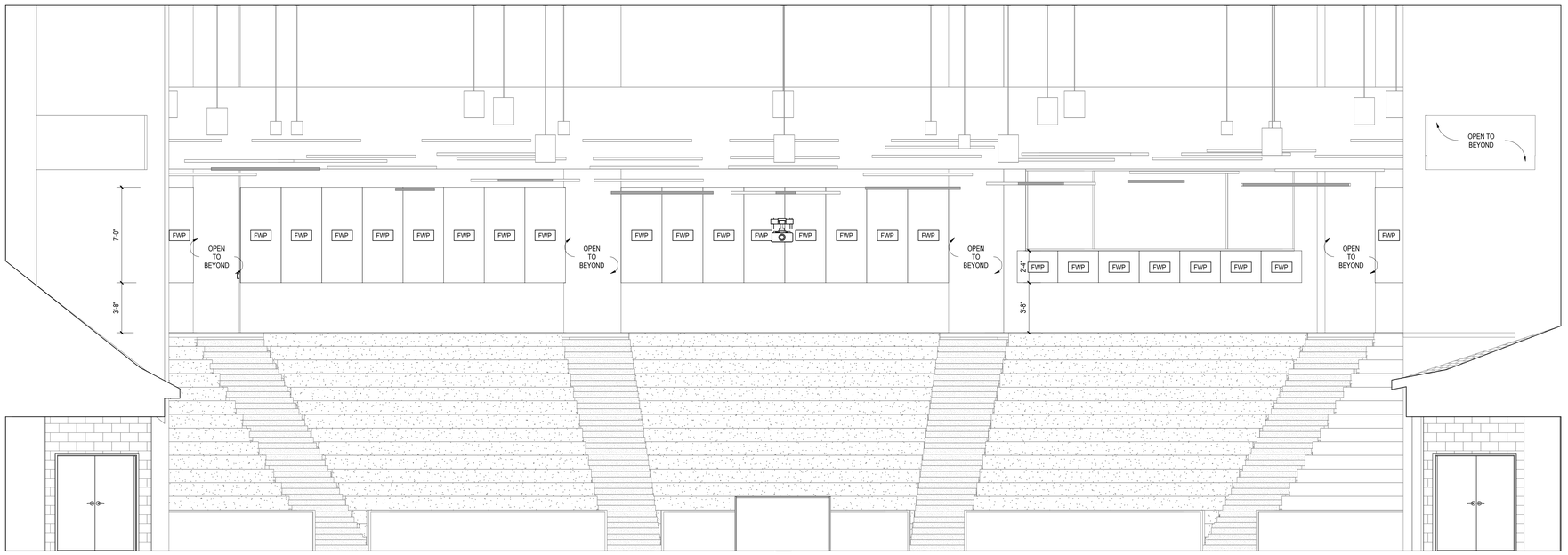
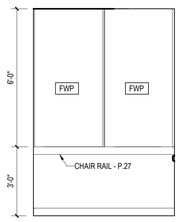
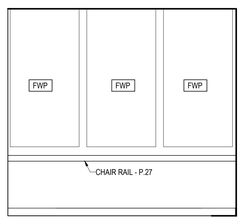


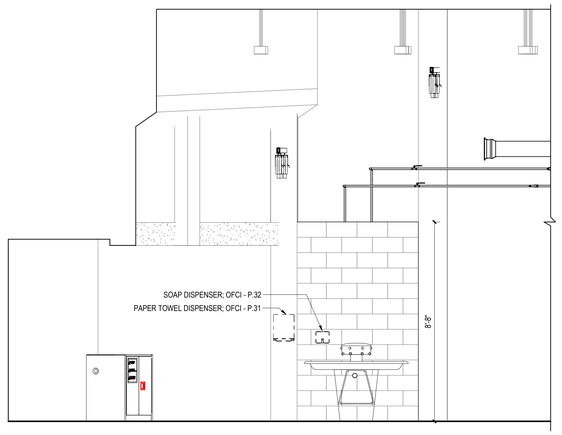
1/4" = 1'-0" AUDITORIUM UPPER TIER C110 S | C5



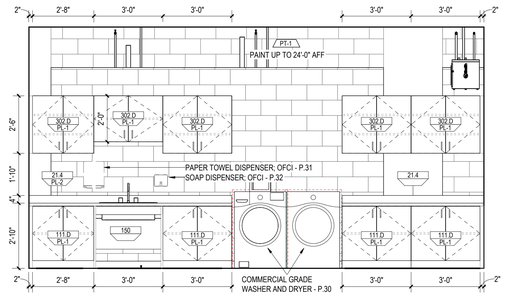
3/8" = 1'-0" TYP. P.R. E | B2



3/8" = 1'-0" TYP. PRACTICE ROOM S | B3



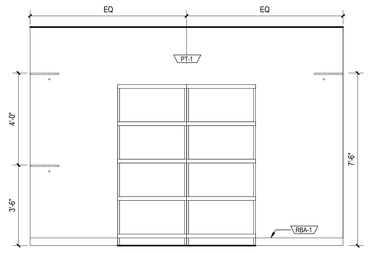
3/8" = 1'-0" SCENE SHOP C119 S | B4



3/8" = 1'-0" SCENE SHOP C119 W | B5

SHEET NOTES

1. PROVIDE CONTROL JOINTS AT ALL OPENINGS (DOORS, WINDOWS, AND CASED IN DRYWALL PARTITIONS.



3/8" = 1'-0" BAND UNIFORM STOR. B108 W | 4

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REGISTERED ARCHITECT JODY L. SERGI 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2024 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A8.11

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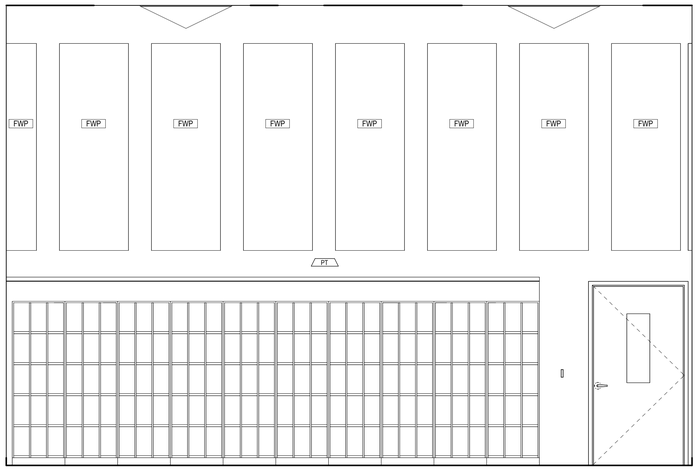
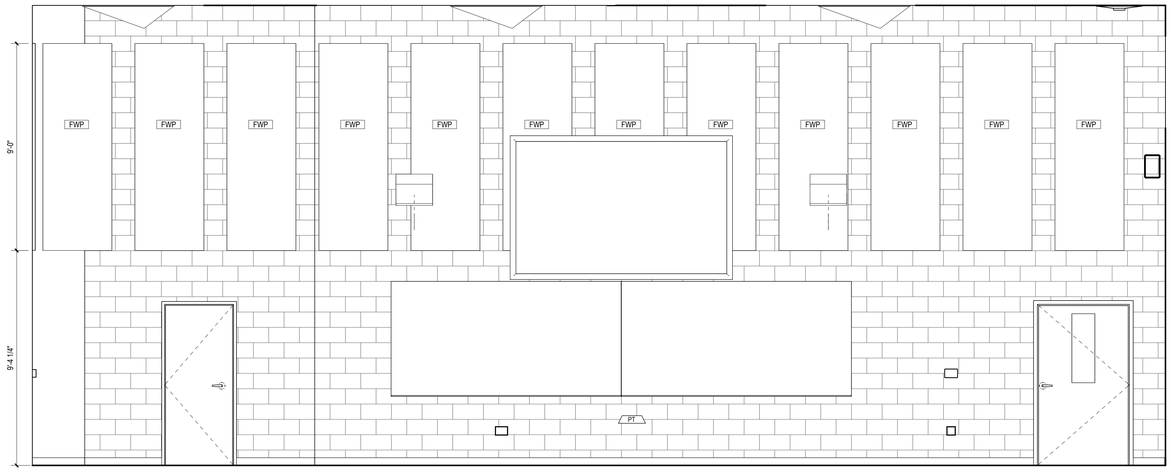
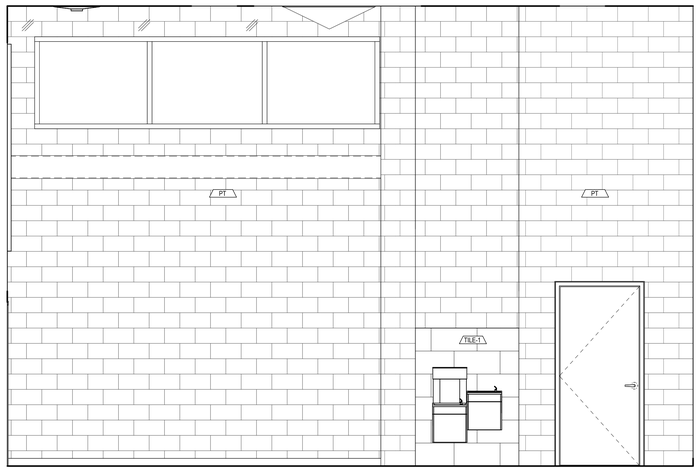


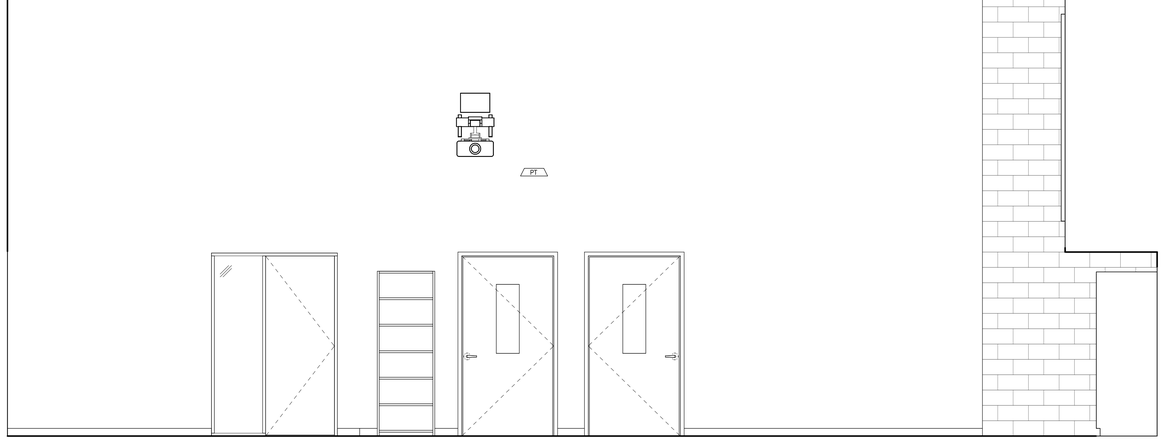
3/8" = 1'-0" ORCHESTRA HALL K105 N | C3



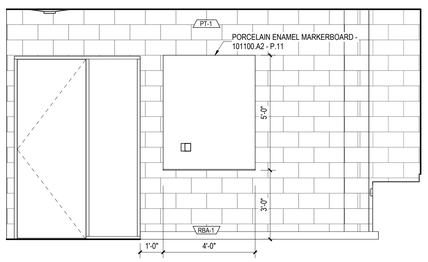
3/8" = 1'-0" ORCHESTRA HALL K105 E | C5



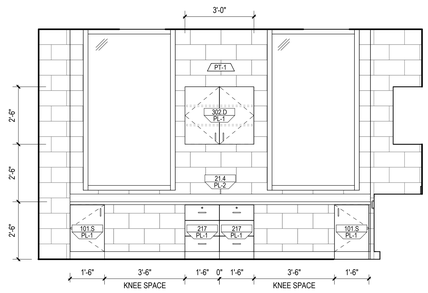
3/8" = 1'-0" ORCHESTRA HALL K105 S | B3



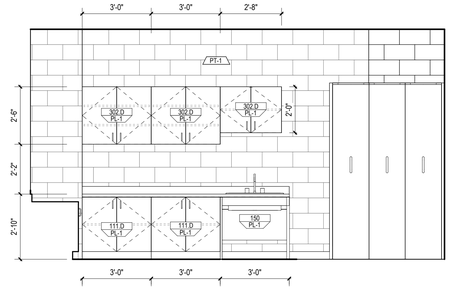
3/8" = 1'-0" ORCHESTRA HALL K105 W | B5



3/8" = 1'-0" ORCHESTRA OFFICE & LIBRARY K108 E | A1



3/8" = 1'-0" ORCHESTRA OFFICE & LIBRARY K108 S | A2



3/8" = 1'-0" ORCHESTRA OFFICE & LIBRARY K108 W | A3

SHEET NOTES

1. PROVIDE CONTROL JOINTS AT ALL OPENINGS (DOORS, WINDOWS, AND CASED IN DRYWALL PARTITIONS.

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REGISTERED ARCHITECT JOHN L. SERPA 24625 STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A8.12

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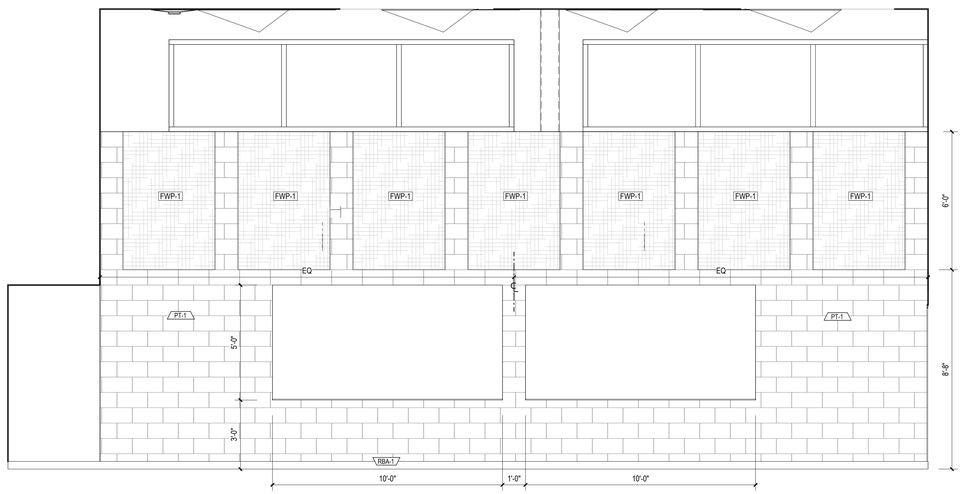
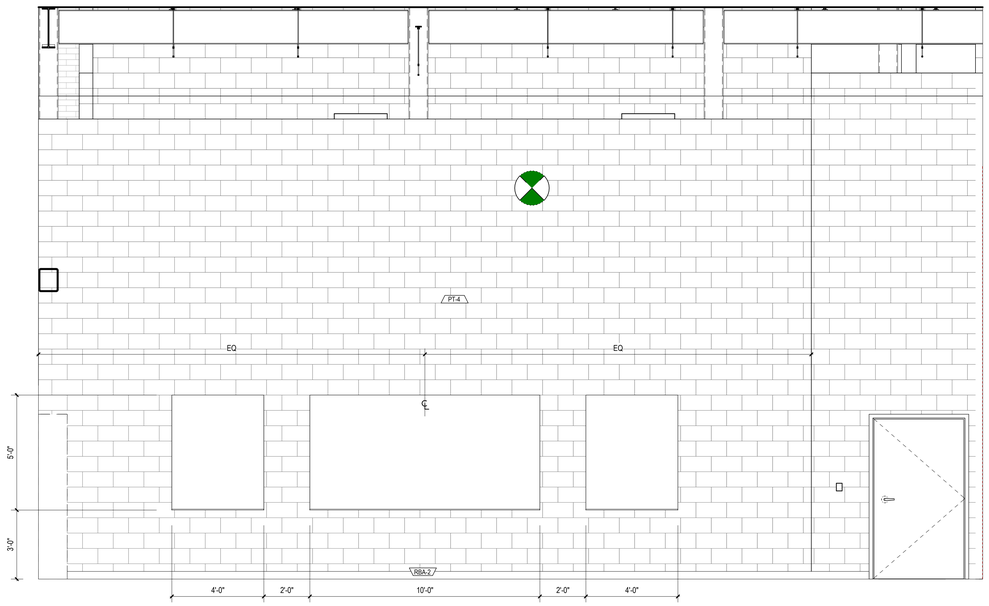
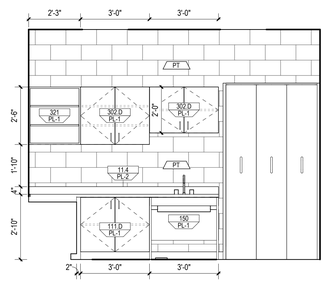


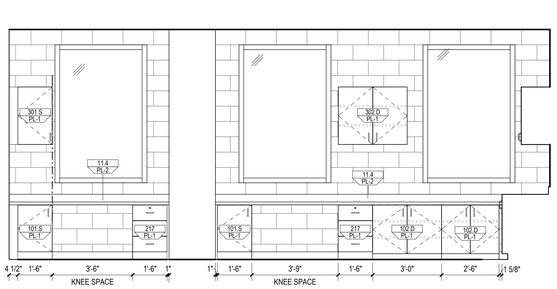
3/8" = 1'-0" CHOIR HALL K112 E | C3



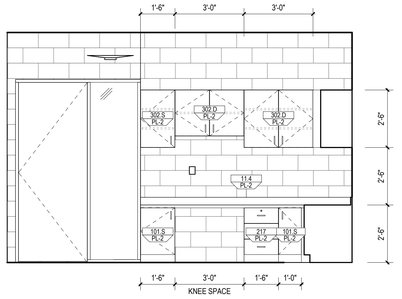
3/8" = 1'-0" BLACK BOX K104 S | C5



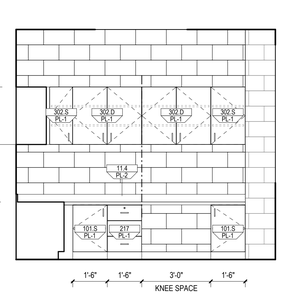
3/8" = 1'-0" CHOIR OFFICE & LIBRARY K114 W | B2



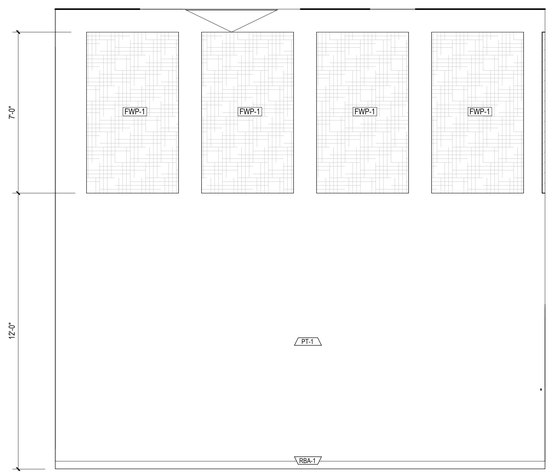
3/8" = 1'-0" CHOIR OFFICE & LIBRARY K114 S | B3



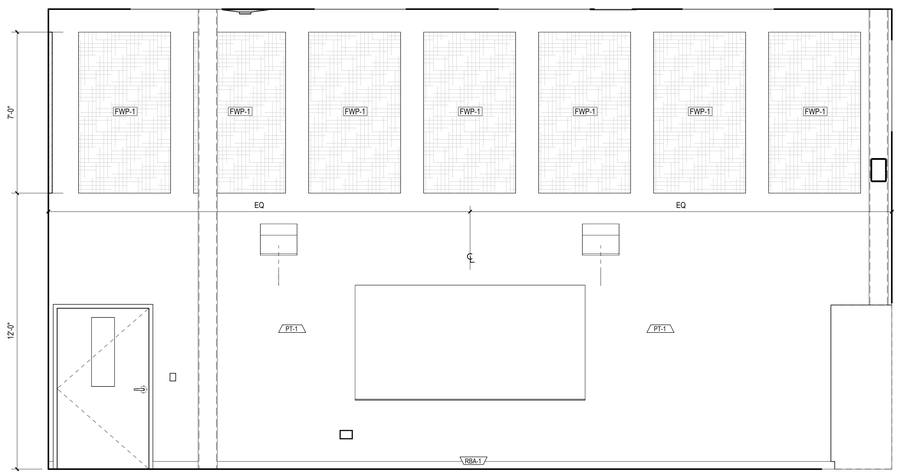
3/8" = 1'-0" DRAMA OFFICE K102 S | B4



3/8" = 1'-0" DRAMA OFFICE K102 W | B5



3/8" = 1'-0" SHARED ENSEMBLE K 113 N | A2



3/8" = 1'-0" SHARED ENSEMBLE K113 E | A3

SHEET NOTES

1. PROVIDE CONTROL JOINTS AT ALL OPENINGS (DOORS, WINDOWS, AND CASED IN DRYWALL PARTITIONS.

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REGISTERED ARCHITECT — JOHN L. SERPA — 24625 — STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	08/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND 2025 BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A8.13

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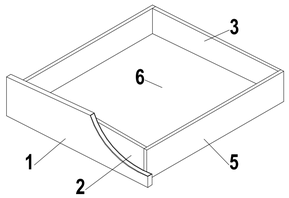

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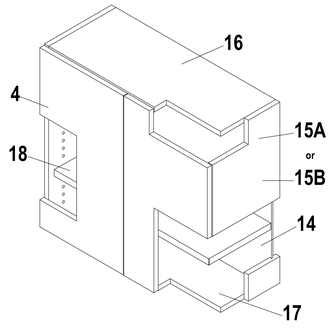
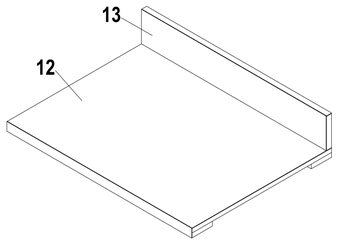
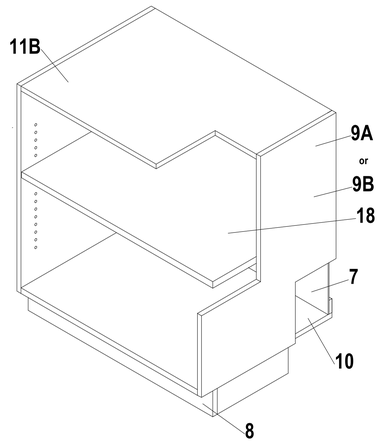


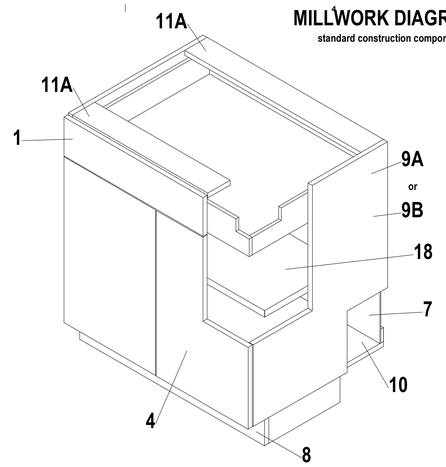
UPPER CABINET



COUNTERTOP



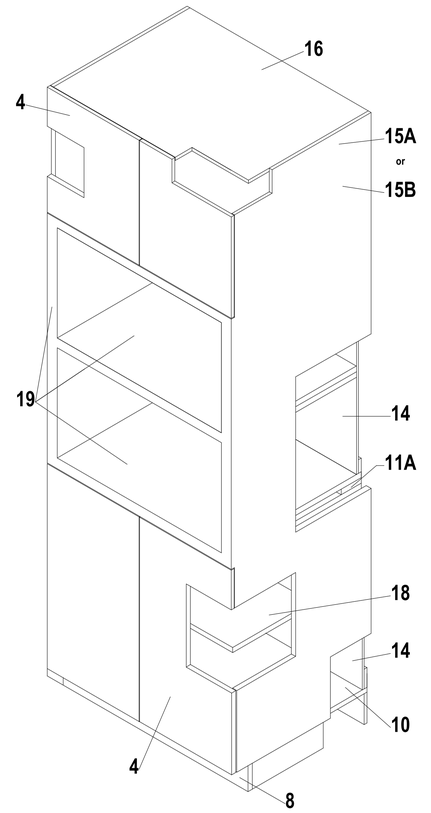
OPEN CABINET



CABINET WITH DRAWER / DOOR FACES

MILLWORK DIAGRAM

standard construction components



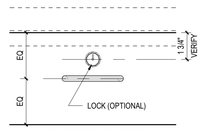
TOWER CABINET

MILLWORK FINISH SCHEDULE

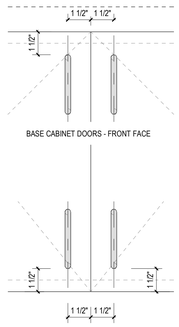
ID NUMBER	DESCRIPTION	OUTSIDE FINISH	CORE MATERIAL	INSIDE FINISH	TOP EDGE	FRONT EDGE	BOTTOM EDGE	LEFT / RIGHT EDGE
VGS	VERTICAL; GRADE (.028) PLASTIC LAMINATE USED ON CABINET DOORS, DRAWERS AND FINISHED ENDS							
CLS	CABINET LINER, HIGH PRESSURE LAMINATE (.020) USED ON BACK OF DOORS AND FINISHED ENDS							
BKL	BACKER							
MELAMINE	LOW PRESSURE MELAMINE LAMINATE							
PVC	EDGEBANDING, HIGH IMPACT PVC EDGING							

*ADJUSTABLE SHELVES: 3/4" THICK MATERIAL UP TO 32" SPAN AS PER "AWI" STANDARDS
*ADJUSTABLE SHELVES: 1" THICK MATERIAL GREATER THAN 32" SPAN AS PER "AWI" STANDARDS

CORE AND FINISHES KEY | B5

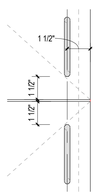


BASE CABINET DRAWER - FRONT FACE

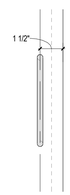


BASE CABINET DOORS - FRONT FACE

UPPER CABINET DOORS - FRONT FACE



TOWER WITH DOUBLE DOORS - FRONT FACE



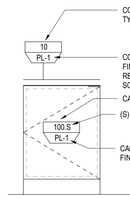
TOWER WITH SINGLE DOOR - FRONT FACE

MILLWORK HARDWARE SCHEDULE

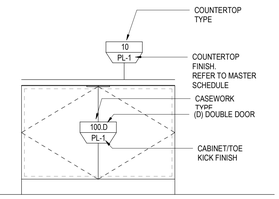
ID	PART	MANUFACTURER	MODEL NUMBER	FINISH	DESCRIPTION
HW-01	PULLS	DOUG MOCKETT	DP3A	SATIN CHROME	3" TAB PULL (FULL MORTISE) - RE: DETAILS
HW-02	PULLS	DOUG MOCKETT	DP3C	SATIN CHROME	6" TAB PULL (FULL MORTISE) - RE: DETAILS
HW-03	PULLS	DOUG MOCKETT	DP57B	SATIN STAINLESS STL.	4 5/32" WIRE PULL
HW-04	PULLS	DOUG MOCKETT	DP57C	SATIN STAINLESS STL.	5 7/16" WIRE PULL
HW-05	PULLS	DOUG MOCKETT	-	SATIN STAINLESS STL.	RECESSED PULL (RECTANGULAR)
HW-06	HINGES - STANDARD	BLUM	-	-	SOFT-CLOSING, SIX WAY ADJUST, 135 DEGREE
HW-07	HINGES - HEAVY DUTY	BLUM	-	-	SOFT-CLOSING, SIX WAY ADJUST, 135 DEGREE
HW-08	CATCH	IVES	-	SATIN NICKEL	ELBOW CATCH
HW-09	CATCH (TENSION)	EPCO	#1012-DB	DULL CHROME	TENSION BALL CATCH AT EACH SIDE OF TOP PANEL
HW-10	LOCK	HAFELE	235.08.054	NICKEL	MILLWORK KEYED DOOR (CAM) LOCK
HW-11	LATCH	SUGATSUNE	MLC-100WT	MATCH INTERIOR	MINI TOUCH LATCH
HW-12	ADJUSTABLE CABINET SHELF SUPPORT	HAFELE	282.04.711	NICKEL	5mm STEEL SHELF SUPPORT PIN
HW-13	DRAWER SLIDE - LIGHT DUTY	ACCURIDE	3832EC	ZINC	EASY-CLOSE, FULL EXTENSION DRAWER SLIDE, 100LBS. CAPACITY
HW-14	DRAWER SLIDE - HEAVY DUTY	ACCURIDE	3600	ZINC	FULL EXTENSION DRAWER SLIDE, 200LBS. CAPACITY
HW-15	COAT ROD	HAFELE	801.42.900	MATT ALUMINUM	ROUND WARDROBE ROD
HW-16	WARDROBE TUBE SUPPORT	HAFELE	803.56.900	MATT ALUMINUM	WARDROBE TUBE SUPPORT
HW-17	WARDROBE TUBE CENTER SUPPORT	HAFELE	802.06.367	MATT ALUMINUM	WARDROBE TUBE CENTER SUPPORT
HW-18	GROMMET	DOUG MOCKETT	EDP SERIES	VERIFY W/ARCHITECT	2 1/2" HOLE, 3" OVERALL DIAMETER
HW-19	GROMMET	DOUG MOCKETT	TM2C	VERIFY W/ARCHITECT	8" X 3" TRASH GROMMET
HW-20	GROMMET	DOUG MOCKETT	TM12B	VERIFY W/ARCHITECT	12" X 3" TRASH GROMMET
HW-21	WALL SHELF STANDARD & BRACKET - HEAVY DUTY	KV	85/185	ANNODIZED CHROME	WALL-MOUNTED ADJUSTABLE SHELVING, HEAVY-DUTY, DOUBLE SLOT
HW-22	WALL SHELF STANDARD & BRACKET - STANDARD	KV	80/180	ANNODIZED CHROME	WALL-MOUNTED ADJUSTABLE SHELVING, REGULAR-DUTY, SINGLE SLOT
HW-23	STOP SILENCERS	-	-	-	INSTALLED AT THE TOP AND BOTTOM OF ALL HINGED CABINET DOORS
HW-24	FILE RAIL SYSTEM	KINETRON CORP.	KIKHFB	-	KINE FLEX FILE BRACKETS
HW-25	FILE RAIL SYSTEM	KINETRON CORP.	KI58	-	KINE FLEX FILE BAR RAIL
HW-26	CABINET FAN - STANDARD	COOLERGUYS	CABCOOL 1201	-	FOR PRINTER AND PC EQUIPMENT. SINGLE 120MM FAN KIT WITH THERMAL CONTROLLER
HW-27	CABINET FAN - HEAVY DUTY	COOLERGUYS	CABCOOL 1202-M	-	FOR AV OR HIGH HEAT SOURCE EQUIPMENT. PRO-METAL SERIES DUAL 120MM FAN KIT WITH THERMAL CONTROLLER
HW-28	TRASH - LARGE	CARLISLE	SQUARE BRUTE 28 GAL #3526	-	PROVIDED BY CONTRACTOR
HW-29	TRASH - SLIM PULL OUT DRAWER	REV-A-SHELF	5149-1550DM-117	ALUMINUM	ALUM. BOTTOM MOUNT WASTE CONTAINER DRAWER SYSTEM - GC CONFIRM FIT AND SIZE
HW-30	TRASH - SLIM CONTAINER	REV-A-SHELF	RV-50-12-52	CHAMPAGNE	DOUBLE 50 QT. WASTE CONTAINER
HW-31	PIVOTING POCKET DOOR SYSTEM	HAFELE/ACCURIDE	408.35.357 (VERIFY DEPTH)	ZINC; COLOR: BLACK	PIVOTING POCKET DOOR HARDWARE (SERIE-123). DOORS - 42" H. MAX. X 24" W. W/ HINGES)
HW-32	PIVOTING POCKET DOOR SYSTEM	HAFELE/ACCURIDE	408.24.461 (VERIFY DEPTH)	ZINC; COLOR: BLACK	PIVOTING POCKET DOOR HARDWARE (SERIE- 1332). TALL DOORS - 36"-78" H. W/ HINGES)
HW-33	HINGES	HAFELE/ACCURIDE	408.24.032	ZINC PLATED	OVERLAY APPLICATION FOR FRAMELESS CABINETS
HW-34	UNI-CONNECTOR	HAFELE	260.15.300	BLACK (PLASTIC)	FOR REMOVABLE PANEL AT BASE CABINET (FAIR HOUSING)

SINGLE / DOUBLE DOOR CONFIGURATIONS:

FOR SIMPLICITY, CASEWORK TYPES ARE SHOWN AS SINGLE DOOR CONFIGURATION ONLY. HOWEVER, SOME CASEWORK HAVE DOUBLE DOORS. REFER TO INTERIOR ELEVATION AND TAG FOR DOOR CONFIGURATION REQUIREMENTS. TAGS INCLUDE (S) FOR SINGLE DOOR , AND (D) FOR DOUBLE DOOR CONFIGURATIONS. BELOW IS AN EXAMPLE.



100.00 (S) - SINGLE DOOR
OPEN CABINET



100.00 (D) - DOUBLE DOOR
OPEN CABINET

3" = 1'-0" WIRE PULL ELEVATION DETAILS | A2

MILLWORK HARDWARE SCHEDULE | A4

MILLWORK AND HARDWARE NOTES | A5

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive
Houston Texas 77024
713 850 9600
kirksey.com

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REGISTERED ARCHITECT
JOHN L. SERPA
24625
STATE OF TEXAS

16 SEPTEMBER 2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

COMMERCIAL CASEWORK (LEGEND & SCHEDULES)

SHEET NUMBER

A10.10

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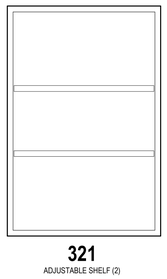
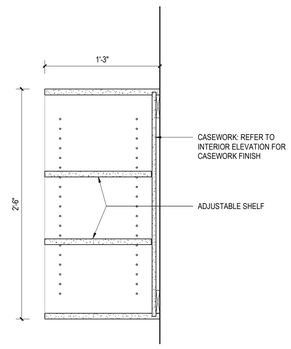
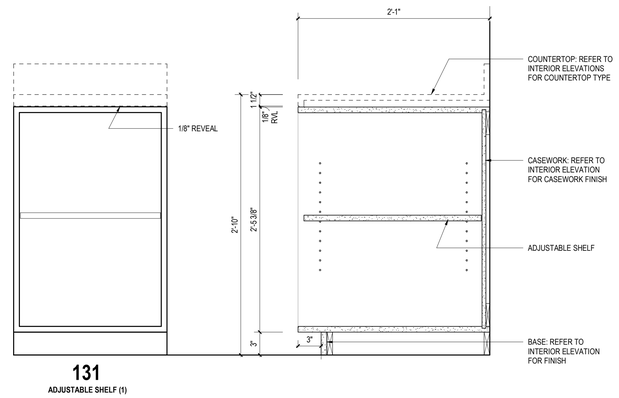
Autodesk Docs://2023306 Willowridge High School/ARCH_Willowridge High School_2024.rvt



321
ADJUSTABLE SHELF (2)

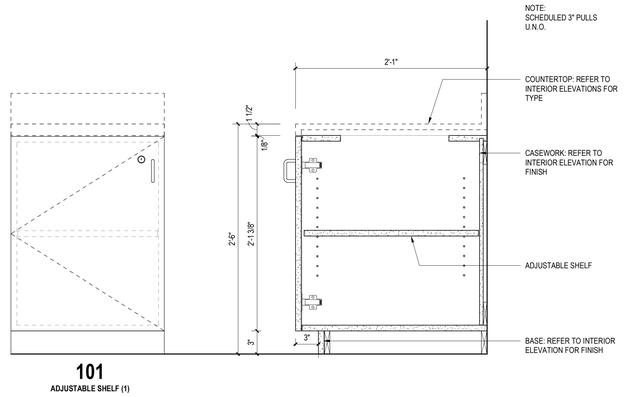


1 1/2" = 1'-0" | 30" UPPER CABINETS W/O DOOR (ADJ. SHELF - 2) | C2



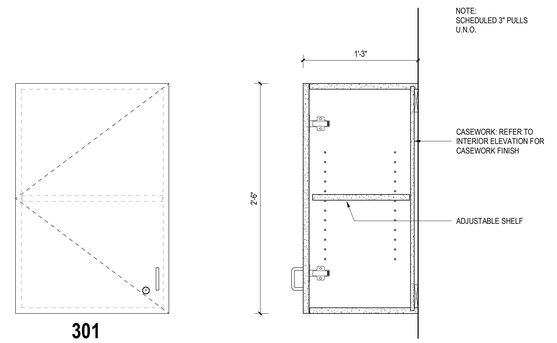
131
ADJUSTABLE SHELF (1)

1 1/2" = 1'-0" | 34" OPEN CABINET (ADJUSTABLE SHELF - 1) | C3



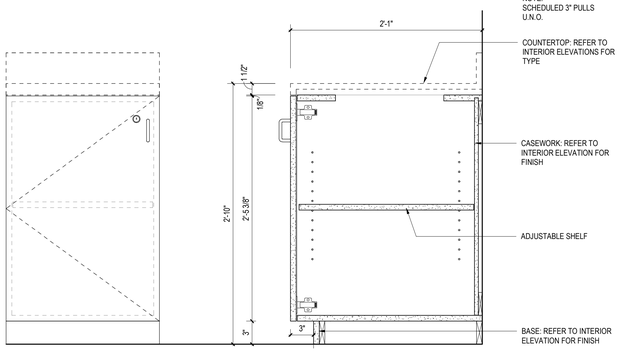
101
ADJUSTABLE SHELF (1)

1 1/2" = 1'-0" | 30" BASE CABINET W/O DRAWERS (ADJ. SHELF - 1) | C5



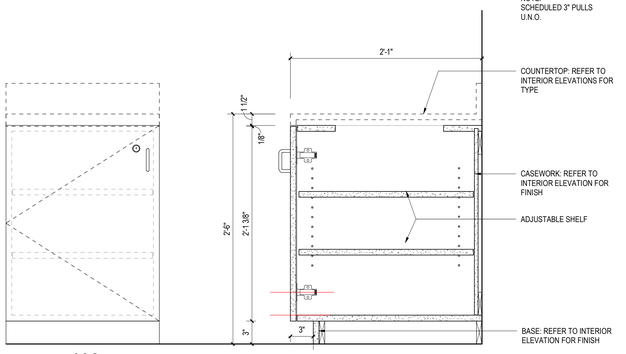
301
ADJUSTABLE SHELF (1)

1 1/2" = 1'-0" | 30" UPPER CABINETS W/DOOR (ADJ. SHELF - 1) | D5



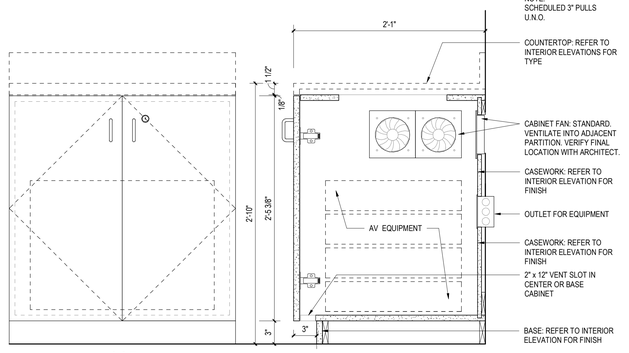
111
ADJUSTABLE SHELF (1)

1 1/2" = 1'-0" | 34" BASE CABINET W/O DRAWERS (ADJ. SHELF - 1) | B2



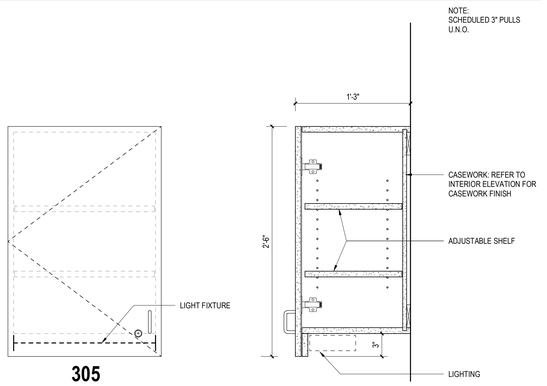
102
ADJUSTABLE SHELF (2)

1 1/2" = 1'-0" | 30" BASE CABINET W/O DRAWERS (ADJ. SHELF - 2) | B3



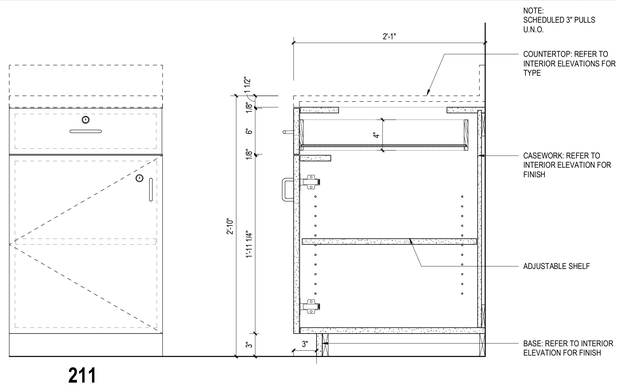
115
AV RACK

1 1/2" = 1'-0" | 34" BASE CABINET W/O DRAWERS (AV RACK) | B5



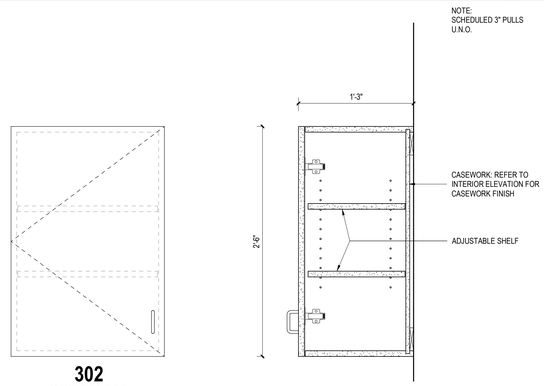
305
LOWER LIGHT
ADJUSTABLE SHELF (2)

1 1/2" = 1'-0" | 30" UPPER CABINETS W/DOOR (LOWER LT/ADJ. SHELF - 2) | A2



211
SINGLE DRAWER
ADJUSTABLE SHELF (1)

1 1/2" = 1'-0" | 34" BASE CABINETS WITH DRAWERS (1) - ADJ. SHELF (1) | A4



302
ADJUSTABLE SHELF (2)

1 1/2" = 1'-0" | 30" UPPER CABINETS W/DOOR (ADJ. SHELF - 2) | A5

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JOHN L. SERPA
STATE OF TEXAS
24625

16 SEPTEMBER 2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
MILLWORK DETAILS

SHEET NUMBER
A10.11

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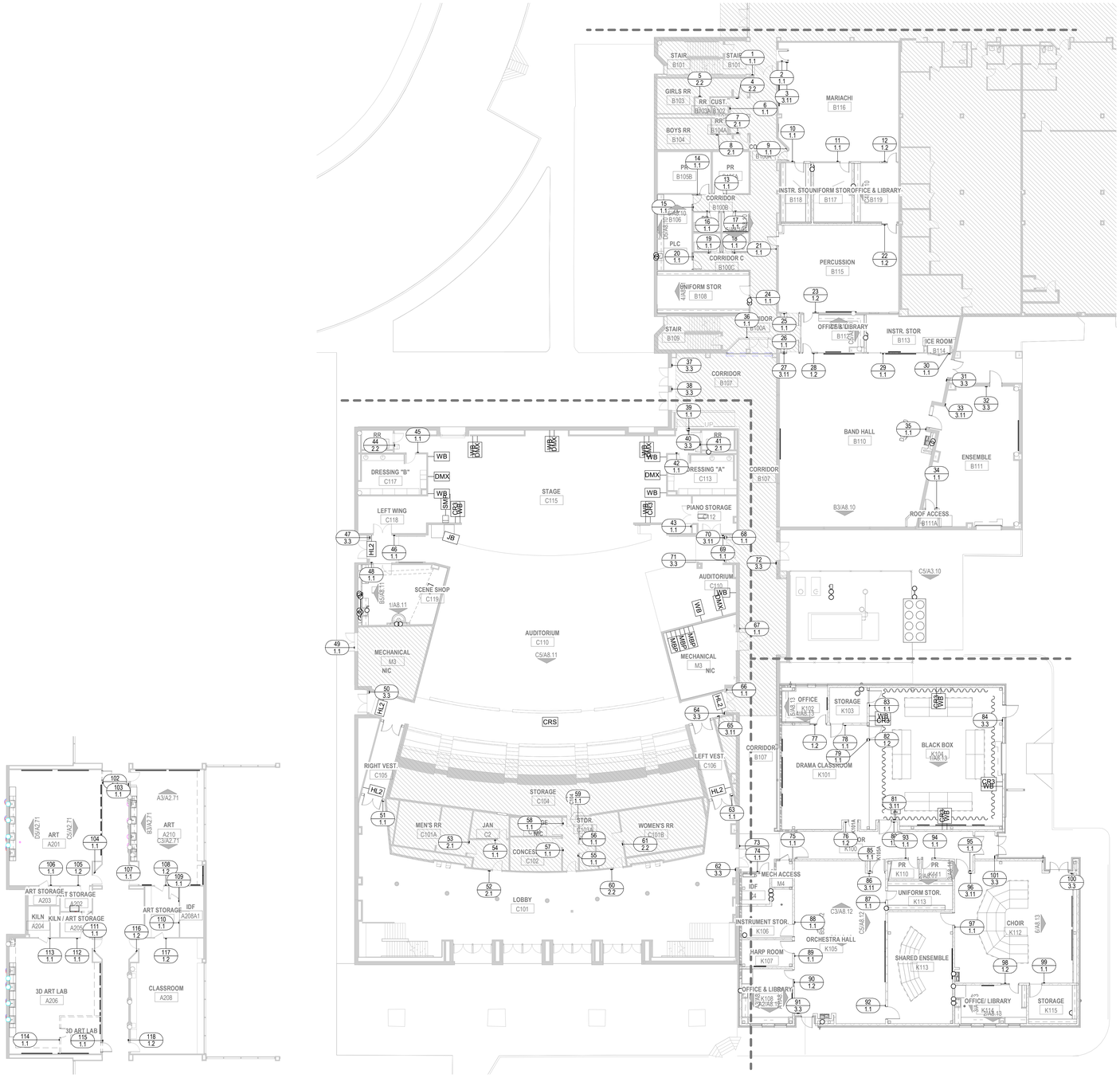
SIGNAGE SCHEDULE

SIGNAGE SCHEDULE					
Item Number	Sign Type	Description	Signage Mount	Comments	Room Name & Number
1.1					
6	1.1		Wall		CUST. B102
13	1.1		Wall		PR B105A
14	1.1		Wall		PR B105B
15	1.1		Glass		PLC B106
16	1.1		Wall		PR B107A
17	1.1		Wall		PR B107B
20	1.1		Glass		PLC B106
19	1.1		Wall		PR B107D
18	1.1		Wall		PR B107C
24	1.1		Wall		UNIFORM STOR B108
9	1.1		Wall		MARIACHI B116
10	1.1		Wall		UNIFORM STOR. B117
11	1.1		Wall		INSTR. STOR B118
21	1.1		Wall		PERCUSSION B115
29	1.1		Wall		INSTR. STOR B113
30	1.1		Wall	ICE ROOM B114	
36	1.1		Wall		
39	1.1		Wall		STAGE C115
42	1.1		Wall		DRESSING "A" C113
43	1.1		Wall	PIANO STORAGE C112	
67	1.1		Wall	MECHANICAL M3	
45	1.1		Wall		DRESSING "B" C117
46	1.1		Wall		LEFT WING C118
48	1.1		Wall		SCENE SHOP C119
49	1.1		Exterior Wall	MECHANICAL M3	
51	1.1		Wall	AUDITORIUM C110	
57	1.1		Wall		CONCESSIONS C102
58	1.1		Wall		STORAGE C104
59	1.1		Wall		STOR. C103A
55	1.1		Wall		TICKETING C103
63	1.1		Wall	AUDITORIUM C110	
66	1.1		Wall		MECHANICAL M3
68	1.1		Wall		AUDITORIUM C110
69	1.1		Wall		PIANO STORAGE C112
73	1.1		Wall	AUDITORIUM C110	
74	1.1		Wall		IDF C4
75	1.1		Wall		MECH ACCESS M4
88	1.1		Wall		INSTRUMENT STOR. K106
89	1.1		Wall		HARP ROOM K107
87	1.1		Wall		UNIFORM STOR. K113
92	1.1		Wall		SHARED ENSEMBLE K113
85	1.1		Wall		ORCHESTRA HALL K105
93	1.1		Wall		PR K110
94	1.1		Wall		PR K111
95	1.1		Wall		CHOIR K112
99	1.1		Wall		STORAGE K115
80	1.1		Wall		BLACK BOX K104
97	1.1		Wall		SHARED ENSEMBLE K113
77	1.1		Wall	DRAMA CLASSROOM K101	
56	1.1		Wall	STORAGE C103A	
1	1.1		Wall		CORRIDOR B100A
54	1.1		Wall		JAN C2
83	1.1		Wall		STORAGE K103
104	1.1		Wall	ART A201	
107	1.1		Wall		ART A210
106	1.1		Wall		ART STORAGE A203
113	1.1		Wall	KILN A204	
112	1.1		Wall		KILN / ART STORAGE A205
115	1.1		Wall		3D ART LAB A206
111	1.1		Wall		3D ART LAB A206
110	1.1		Wall		IDF A208A1
109	1.1		Wall		IDF A208A1
102	1.1		Wall		ART A201
103	1.1		Wall		ART A210
104	1.1		Wall		ART STORAGE A203
108	1.2		Wall	KILN A204	
116	1.2		Wall		KILN / ART STORAGE A205
117	1.2		Wall		3D ART LAB A206
118	1.2		Wall		CLASSROOM A208
35	1.1		Wall	ENSEMBLE B111	
78	1.1		Wall		STORAGE K103
2	1.1		Wall		MARIACHI B116
25	1.1		Wall		PERCUSSION B115
79	1.1		Wall		BLACK BOX K104
114	1.1		Wall		3D ART LAB A206
26	1.1		Wall		BAND HALL B110
34	1.1				ROOF ACCESS B111A
1.2					
12	1.2		Glass		OFFICE & LIBRARY B119
28	1.2		Glass		OFFICE & LIBRARY B112
90	1.2		Glass		OFFICE & LIBRARY K108
98	1.2		Glass		OFFICE/ LIBRARY K114
76	1.2		Wall		DRAMA CLASSROOM K101
77	1.2		Glass		OFFICE K102
23	1.2		Glass		OFFICE & LIBRARY B112
82	1.2		Wall		DRAMA CLASSROOM K101
105	1.2		Wall		ART STORAGE A202
116	1.2		Wall	CLASSROOM A208	
118	1.2		Wall		CLASSROOM A208
117	1.2		Wall		ART STORAGE A208A
108	1.2		Wall		ART STORAGE A208A
22	1.2		Glass		OFFICE & LIBRARY B119
2.1					
7	2.1		Wall	BOYS RESTROOM	CORRIDOR B100A
41	2.1		Wall	BOYS RESTROOM	STAGE C115
52	2.1		Wall	BOYS RESTROOM	LOBBY C101
8	2.1		Wall	BOYS RESTROOM	BOYS RR B104
53	2.1		Wall	BOYS RESTROOM	
2.2					
4	2.2		Wall	GIRLS RESTROOM	CORRIDOR B100A
44	2.2		Wall	GIRLS RESTROOM	STAGE C115
60	2.2		Wall	GIRLS RESTROOM	LOBBY C101
5	2.2		Wall	GIRLS RESTROOM	GIRLS RR B103
61	2.2		Wall	GIRLS RESTROOM	
3.3					
47	3.3		Wall		AUDITORIUM C110
50	3.3		Wall		AUDITORIUM C110
37	3.3		Wall		CORRIDOR B107
38	3.3		Wall		CORRIDOR B107
72	3.3		Wall		CORRIDOR B107
84	3.3		Wall		BLACK BOX K104
101	3.3		Wall		VEST K100B
100	3.3		Wall		CHOIR K112
91	3.3		Wall		ORCHESTRA HALL K105
31	3.3		Wall		BAND HALL B110
32	3.3		Wall		ENSEMBLE B111
64	3.3		Wall		AUDITORIUM C110
71	3.3		Wall		AUDITORIUM C110
62	3.3		Wall		LOBBY C101
40	3.3		Wall		STAGE C115
3.11					
27	3.11		Wall	Max Occupancy 142	BAND HALL B110
81	3.11		Wall	Max Occuancy 100	BLACK BOX K104
86	3.11		Wall	Max Occupancy 78	ORCHESTRA HALL K105
96	3.11		Wall	Max Occupancy 76	CHOIR K112
65	3.11		Wall	Max Occupancy 443	AUDITORIUM C110
33	3.11		Wall	Max Occupancy 66	ENSEMBLE B111
70	3.11		Wall	Max Occupancy 443	AUDITORIUM C110
3	3.11		Wall	Max Occupancy 70	MARIACHI B116

119



1/16" = 1'-0" LEVEL 2 SIGNAGE LOCATION PLAN | A1

1/16" = 1'-0" LEVEL 1 SIGNAGE LOCATION PLAN | A4

Kirksey ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024

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REGISTERED ARCHITECT — JODY L. SIEGEL — STATE OF TEXAS — 24625

16 SEPTEMBER 2025

	DATE	ISSUE
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SIGNAGE LOCATION PLANS & SCHEDULE

SHEET NUMBER

SG2.11

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Autodesk Docs://2023306 Willowridge High School/ARCH_Willowridge High School_2024.rvt

GENERAL NOTES FOR SIGNAGE FABRICATION

Drawings from this signage package represent design intent only. Signage contractor to provide shop drawings for each sign type, samples and color test prints as needed for review by architect, signage designer, and owner for approval. Shop drawings to include signage layouts and message schedule with corresponding item numbers. Fail to include item numbers will automatically be rejected. Field measure and verify site conditions prior to final production.

PROJECT COLOR AND FINISH

Paint

P1		WHITE MP32351 WHITE SPIRIT
P2		BLUE MP13999 Oh So Blue

Materials

A1		CLEAR ACRYLIC
A1		WHITE ACRYLIC
PL1		PLASTIC LAMINATE/BLUE PANTONE 7686 C
PL2		PLASTIC LAMINATE/GRAY PANTONE COOL-GRAY-3 C

PROJECT SIGN TYPES

Type	Description
1.1	Room Signage - Fixed Names
1.2	Room Signage - Classroom and Offices
2.1	Men's Restroom
2.2	Women's Restroom
2.3	Restroom Sign
3.3	Exit Sign
3.11	Occupancy Sign

PROJECT TYPESTYLES

Helvetica Medium

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

01234567890

PROJECT PICTOGRAMS

Boys Girls

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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16 SEPTEMBER 2025

	DATE	ISSUE
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SIGNAGE GENERAL NOTES

SHEET NUMBER

SG2.14

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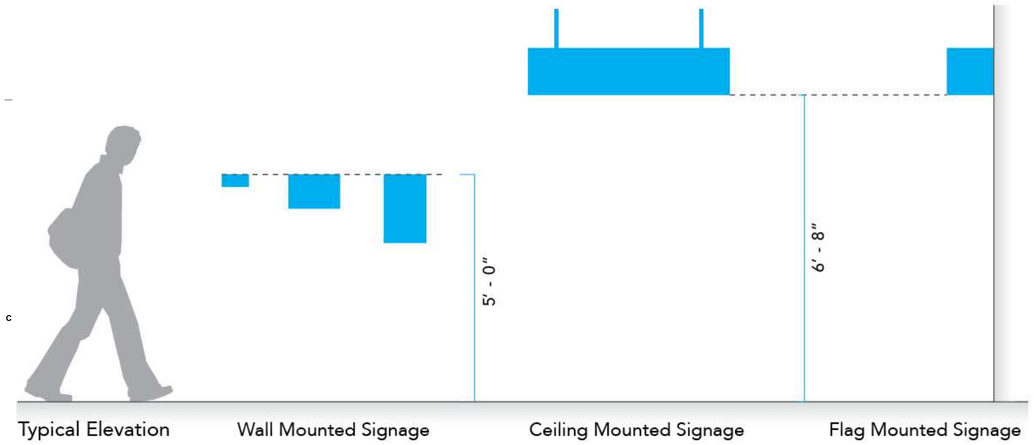
12" = 1'-0"

SIGNAGE-GENERAL NOTE-01 | A5

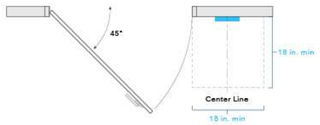
GENERAL NOTES FOR SIGNAGE INSTALLATION

These are typical mounting heights, locations and methods for signage installation unless otherwise specified.

MOUNTING HEIGHTS

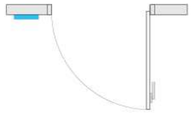


MOUNTING LOCATIONS



Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

1. Sign Containing Tactile Characters

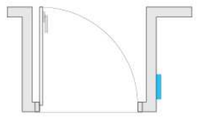


Typically, always place sign on latch side of single door, whether doors open inwards to a room or outwards to a corridor. If this is not possible, place sign on hinge side.

2. Standard Door Location

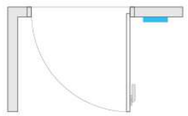
Sign to be placed on latch side of nearest parallel wall.

3. Door in a Recessed Wall



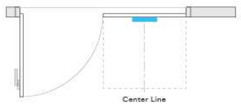
Sign to be placed on latch side of nearest perpendicular wall.

4. Door in a Protruding Wall



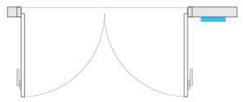
Sign to be placed on opposite side of latch side (hinge side).

5. Door at a Corner Wall



Where a sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf.

6. Double Door with One Active Leaf



Where a sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door.

7. Double Door with Two Active Leafs

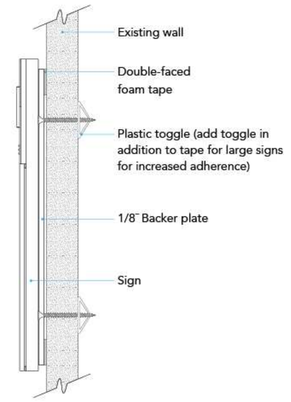
MOUNTING METHODS

General notes

A. Assemble, unless otherwise specified, with appropriate adhesive. No adhesive is to be visible.

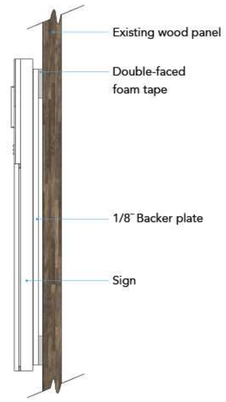
B. Mount assembled sign unit to wall surface with double-faced foam tape or VHB tape, and clear low VOC silicone adhesive. Thickness of tape shall be thickness needed to achieve maximum adhesion. No adhesive is to be visible.

C. Signage contractor to provide appropriate anchor, fasteners, mounting hardwares including cables for ceiling hung signage.



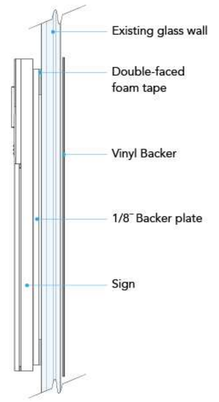
Use double-faced foam tape and silicone glue to mount on wall. Do not use this method if wall has covering as foam tape and silicone may not adhere. White acrylic backing plate.

Installing on Gypsum Wallboard



Mount signs with double-faced foam tape only. Do not use silicone or wall fasteners.

Installing on Wood / Wood Veneer



Mount signs with double-faced foam tape only. Do not use silicone or wall fasteners. Mount gray vinyl backer on other side of glass to hide VHB tape and back of the sign from showing.

Installing on Glass

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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REGISTERED ARCHITECT — JOHN L. SERIO — STATE OF TEXAS — 24625

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SIGNAGE GENERAL NOTES

SHEET NUMBER

SG2.15

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12" = 1'-0"

SIGN TYPE 1.1

Material Identification

A SIGN PLATE
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL1**

C PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL2**

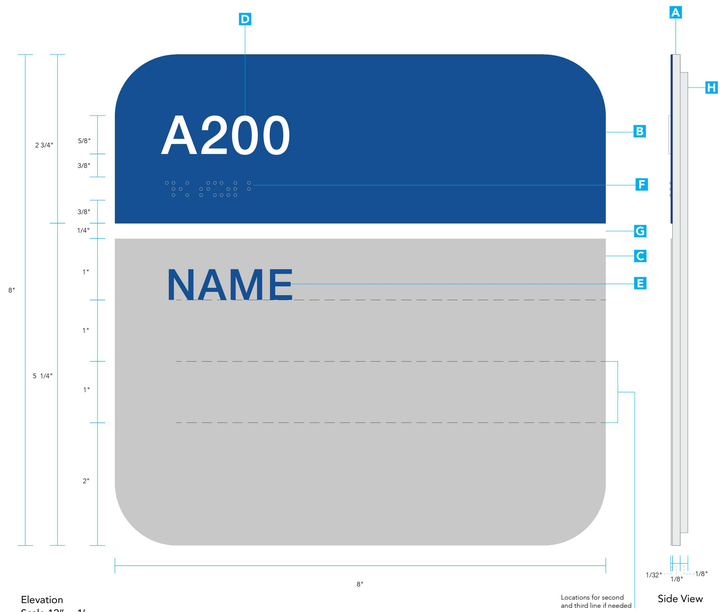
D TACTILE CHARACTERS
Material: 5/8" height, acrylic room number to raised 1/32" with all copy to be painted **P1**

E PRINTED ON CHARACTERS
Material: 1/2" Height printed color to match **P2**

F GRADE 2 BRAILLE
Material: Braille to be cast integral with acrylic sign plate, raised 1/32", left clear

G ACCENT STRIP
Material: 1/4" Routed Band Painted **P1**

H BACKER PLATE
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.



Elevation
Scale 12" = 1'

Side View

SIGN TYPE 2.1

Material Identification

A SIGN PLATE
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL1**

C PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL2**

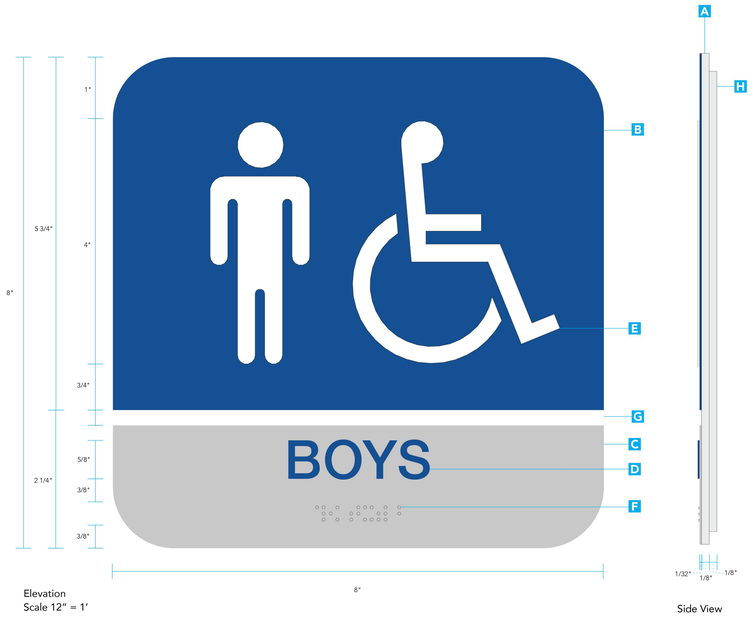
D TACTILE CHARACTERS
Material: 5/8" height, acrylic room number to raised 1/32" with all copy to be painted **P2**
B

E PICTOGRAM
Material: 4" Height, acrylic pictogram to be raised 1/32"painted match to match **P1**

F GRADE 2 BRAILLE
Material: Braille to be cast integral with acrylic sign plate, raised 1/32", left clear

G ACCENT STRIP
Material: 1/4" Routed Band Painted **P1**

H BACKER PLATE
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.



Elevation
Scale 12" = 1'

Side View

SIGN TYPE 1.2

Material Identification

A SIGN PLATE
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL1**

C PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL2**

D TACTILE CHARACTERS
Material: 5/8" height, acrylic room number to raised 1/32" with all copy to be painted **P1**

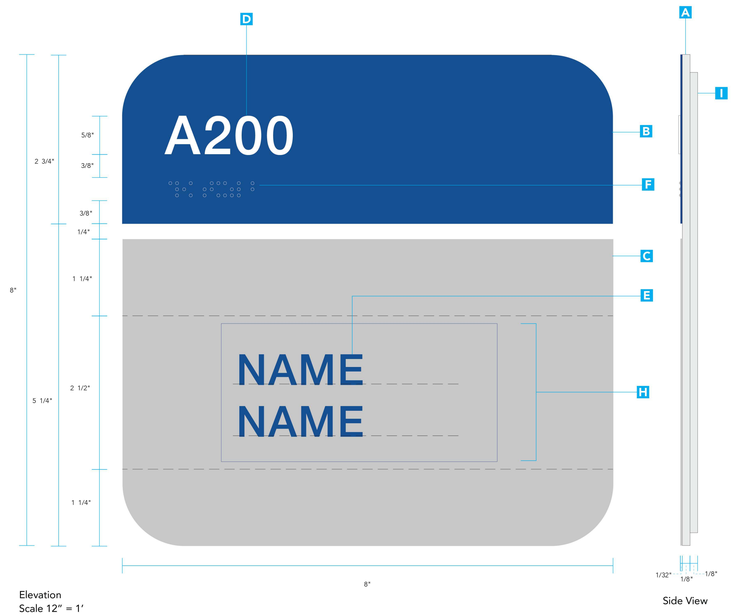
E PRINTED ON CHARACTERS
Material: Printed on plastic laminate **PL2** insert, 1/2" Height color to match **P2**

F GRADE 2 BRAILLE
Material: Braille to be cast integral with acrylic sign plate, raised 1/32", left clear

G ACCENT STRIP
Material: 1/4" Routed Band Painted **P1**

H ACRYLIC WINDOW
Material: 1/8" Clear Acrylic face window **A1**

I BACKER PLATE
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.



Elevation
Scale 12" = 1'

Side View

SIGN TYPE 2.2

Material Identification

A SIGN PLATE
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL1**

C PLASTIC LAMINATE
Material: 1/32" Plastic Laminate **PL2**

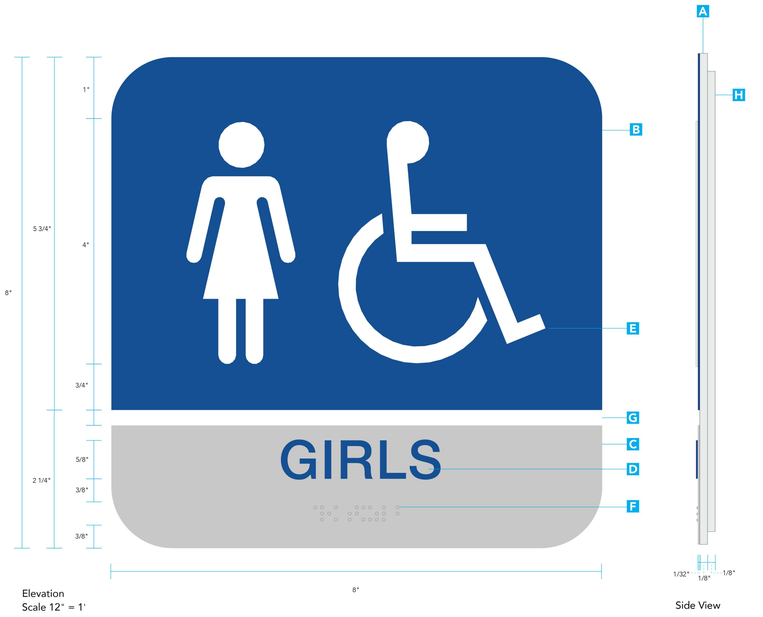
D TACTILE CHARACTERS
Material: 5/8" height, acrylic room number to raised 1/32" with all copy to be painted **P2**

E PICTOGRAM
Material: 4" Height, acrylic pictogram to be raised 1/32"painted match to match **P1**

F GRADE 2 BRAILLE
Material: Braille to be cast integral with acrylic sign plate, raised 1/32", left clear

G ACCENT STRIP
Material: 1/4" Routed Band Painted **P1**

H BACKER PLATE
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.



Elevation
Scale 12" = 1'

Side View

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024
713 850 9600
kirksey.com

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24625
STATE OF TEXAS

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
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PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SIGNAGE DETAILS

SHEET NUMBER
SG2.16

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SIGNAGE-SIGNAGE DETAIL 1-4 | A5

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SIGN TYPE 3.3

Material Identification

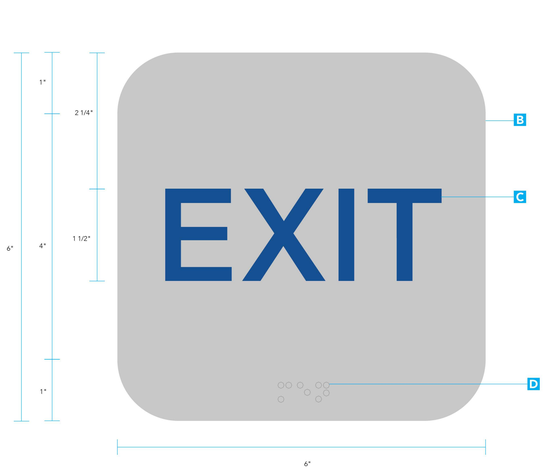
A **SIGN PLATE**
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B **PLASTIC LAMINATE**
Material: 1/32" Plastic Laminate **PL2**

C **TACTILE CHARACTERS**
Material: 1 1/2" height, acrylic to be raised 1/32" with all copy to be painted **P2**

D **GRADE 2 BRAILLE**
Material: Braille to be cast integral with acrylic sign plate, raised 1/32", left clear

E **BACKER PLATE**
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.



Elevation
Scale 12" = 1'

Side View

SIGN TYPE 3.11

Material Identification

A **SIGN PLATE**
Material: 1/8" Clear Acrylic **A1** plate with all edges finish smooth. 1/2" radius at all corners

B **PLASTIC LAMINATE**
Material: 1/32" Plastic Laminate **PL2**

C **PRINTED ON CHARACTERS**
Material:1" Height characters, printed color to match **P2**

D **BACKER PLATE**
Material: 1/8" White acrylic **A2** plate with edges finish smooth. Plate to be inset 1/4" from all edges of sign plate.

Elevation
Scale 12" = 1'

Side View

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive
Houston Texas 77024
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STATE OF TEXAS
24625

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PROJECT ADDRESS
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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SIGNAGE DETAILS

SHEET NUMBER
SG2.17

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12" = 1'-0"

SIGNAGE-SIGNAGE DETAIL 5-8 | A5

HAZARDOUS MATERIAL NOTE:

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL DEMOLITION NOTES:

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.

B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.

E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

MECHANICAL GENERAL NOTES:

CODES AND STANDARDS

A. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES AS ADOPTED AND/OR AMENDED BY AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE CURRENTLY ADOPTED VERSIONS OF:
- INTERNATIONAL BUILDING CODE(S) AND FIRE CODE(S)
- [INTERNATIONAL|UNIFORM] MECHANICAL CODE
- [INTERNATIONAL|UNIFORM] PLUMBING CODE
- INTERNATIONAL ENERGY CONSERVATION CODE
- HEALTH CODE
- LOCAL ZONING CODE(S)
- WINDSTORM RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE
- SEISMIC RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE

IN CASE OF CONFLICTS OR DISCREPANCIES AMONG CODE REQUIREMENTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

B. OBSERVE ALL APPLICABLE CODES, RULES, AND REGULATIONS THAT MAY APPLY TO THE PERFORMANCE OF WORK UNDER THIS CONTRACT, INCLUDING BUT NOT LIMITED TO CODES REGULATING SAFETY, WORKING CONDITIONS, NOISE RESTRICTIONS, USAGE OF PUBLIC ROADWAYS AND OTHER UTILITIES DURING CONSTRUCTION, HANDLING OF HAZARDOUS MATERIALS, AND DISPOSAL OF WASTES. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

EXISTING CONDITIONS

A. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

B. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

C. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

D. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

E. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

F. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

PHASING, SEQUENCING, AND SCOPE

A. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

B. THE CONTRACTOR SHALL EXERCISE CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT CAUSE UNPLANNED INTERRUPTION OF ANY EXISTING SERVICE OR SUB-SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES.

C. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

D. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.

DIMENSIONS, MOUNTING HEIGHTS, AND COORDINATION AMONG TRADES AND DISCIPLINES

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.

C. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

D. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

E. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

F. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

G. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

TECHNICAL REQUIREMENTS FOR SATISFACTORY WORK

A. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE EXISTING OR NEW WORK OF OTHER TRADES.

B. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF.

C. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

D. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.

E. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.

F. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

G. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

H. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

I. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

DEVIATIONS, CONFLICTS, ERRORS, OMISSIONS, ETC.

A. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

B. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

C. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

SYMBOLS & ABBREVIATIONS

	SUPPLY DIFFUSER	VAV	VARIABLE AIR VOLUME BOX
	RETURN GRILLE	VFD	VARIABLE FREQUENCY DRIVE
	EXHAUST GRILLE	XXX.X	EQUIPMENT TAG DESIGNATOR
	LINEAR SLOT DIFFUSER		POINT OF CONNECTION
SA	SUPPLY AIR DUCT		LIMIT OF DEMOLITION
RA	RETURN AIR DUCT		PIPE ELBOW TURNING UP/TURNING DOWN
EA	CONSTANT EXHAUST AIR DUCT		PIPE TEE TURNING UP/TURNING DOWN
RA	OUTSIDE AIR DUCT	CHWS/R	CHILLED WATER SUPPLY/RETURN
OA	TRANSFER AIR DUCT	CD	CONDENSATE DRAIN
EA-V	VARIABLE EXHAUST AIR DUCT	CBS/R	CHILLED BEAM SUPPLY/RETURN
COA	COMBUSTION AIR DUCT	CWS/R	CONDENSER WATER SUPPLY/RETURN
SA	SA AIR DUCT TURNING UP	DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
SA	SA AIR DUCT TURNING DOWN	FLUE	BOILER/WATER HEATER FLUE
RA	RA AIR DUCT TURNING UP	GS/R	GEOTHERMAL WATER SUPPLY/RETURN
RA	RA AIR DUCT TURNING DOWN	HWS/R	HEATING WATER SUPPLY/RETURN
EA	EA AIR DUCT TURNING UP	HPS/R	HEAT PUMP WATER SUPPLY/RETURN
EA	EA AIR DUCT TURNING DOWN	LPS (#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
D(NAME)	DUCT TO BE DEMOLISHED	LPC	LOW PRESSURE STEAM CONDENSATE
E(NAME)	EXISTING DUCT	MPS (#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
	FLEXIBLE DUCT	MPC	MEDIUM PRESSURE STEAM CONDENSATE
FD	FIRE DAMPER	HPS (#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
SD	SMOKE DAMPER	HPC	HIGH PRESSURE STEAM CONDENSATE
FSD	COMBINATION FIRE/SMOKE DAMPER	CST	CLEAN STEAM PIPING
D	MOTORIZED DAMPER	SVT	STEAM VENT PIPING
	VOLUME DAMPER	HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
AFF	ABOVE FINISHED FLOOR	PD	STEAM CONDENSATE PUMPED DISCHARGE
AFR	ABOVE FINISHED ROOF	BFW	BOILER FEEDWATER
BAS	BUILDING AUTOMATION SYSTEM	D(NAME)	PIPING TO BE DEMOLISHED
CAV	CONSTANT AIR VOLUME BOX	E(NAME)	EXISTING PIPING
CD	CONDENSATE DRAIN	ABAN(NAME)	ABANDONED EXISTING PIPING
C.I.	CAST IRON		EXISTING DUCT OR PIPING TO BE REMOVED
CO	CARBON MONOXIDE SENSOR		TWO-WAY CONTROL VALVE
DD	DUCT SMOKE DETECTOR		THREE-WAY CONTROL VALVE
DN	DOWN		AUTOMATIC AIR VENT
FD	FIRE DAMPER		MANUAL AIR VENT
FOS/R	FUEL OIL SUPPLY/RETURN		BALANCING VALVE
FOT	FUEL OIL TANK		BALL VALVE
H	HUMIDITY SENSOR		BUTTERFLY VALVE
ID	INSIDE DIMENSION		TRIPLE DUTY VALVE
NC	NORMALLY CLOSED		STRAINER
NO	NORMALLY OPEN		MANUAL ISOLATION VALVE
NIC	NOT IN CONTRACT		GLOBE VALVE
NO	NORMALLY OPEN		OS&Y (GATE) VALVE
NTS	NOT TO SCALE		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
OD	OUTSIDE DIMENSION		AUTO-FLOW CONTROL VALVE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		CHECK VALVE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		DOUBLE CHECK VALVE ASSEMBLY
OFOI	OWNER FURNISHED, OWNER INSTALLED		FLEXIBLE PIPE CONNECTION
OR	OPEN RECEPTACLE		FLOW METER (VENTURI)
PRS	PRESSURE REDUCING STATION		PIPING UNION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)		FLOW SWITCH
PSI	POUNDS PER SQUARE INCH		PRESSURE SWTICH
S	SWITCH		TAMPER SWITCH
SD	SMOKE DAMPER		THERMOMETER
T	THERMOSTAT		PETE'S PLUG
TB	THRUST BLOCK	X	TAGGED NOTE DESIGNATOR
TS	TEMPERATURE SENSOR	X	REVISION DESIGNATOR
TE	TOP ELEVATION	T	THERMOMETER
TYP	TYPICAL	T_S	TEMPERATURE SENSOR
UNO	UNLESS NOTED OTHERWISE		

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CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT — 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL LEGEND

SHEET NUMBER

M0.00

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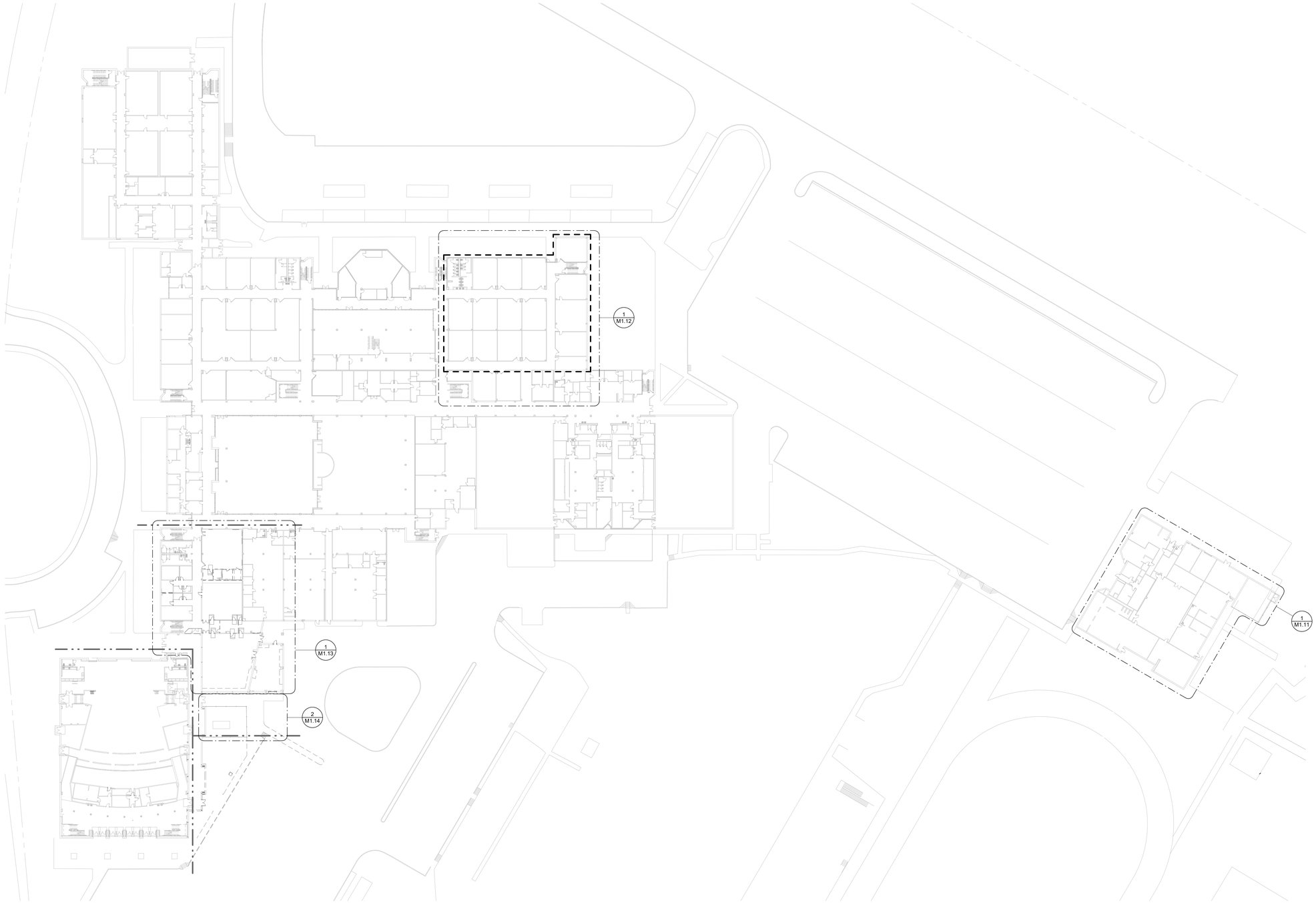
GENERAL NOTES:
- THIS PLAN INDICATES AREAS WITHIN SCHOOL WHERE MECHANICAL DEMOLITION SCOPE IS LOCATED. REFER TO THE INDICATED DRAWINGS FOR DETAILED SCOPE.



1 AIR DISTRIBUTION OVERALL DEMO PLAN - LEVEL 1
1" = 40'-0"

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105316
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

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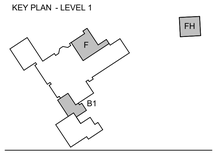
PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 MECHANICAL DEMOLITION PLAN OVERALL

SHEET NUMBER

M1.10

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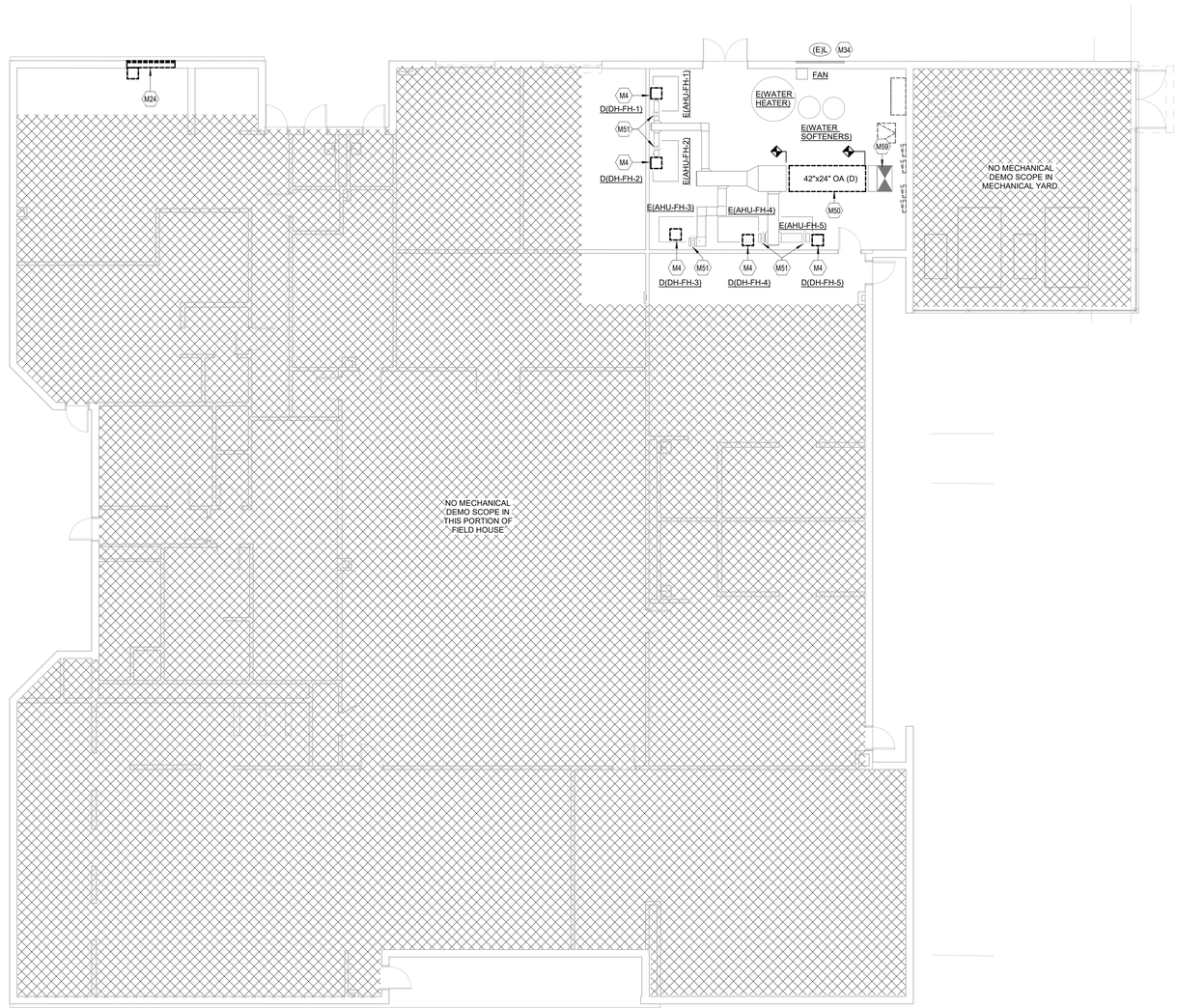
TAGGED NOTES	##
M4	EXISTING SUPPLY DUCT MOUNTED ELECTRIC HEATER TO BE DEMOLISHED AND REPLACED.
M24	DEMO SUPPLY FAN AND LOUVER. PATCH WALL AIR TIGHT.
M34	EXISTING LOUVER TO REMAIN.
M50	DEMO EXISTING SECTION OF OUTDOOR AIR DUCT. CONTRACTOR TO FIELD VERIFY THERE IS ENOUGH ROOM TO INSTAL INLINE FAN FOR NEW CONSTRUCTION SCOPE.
M51	EXISTING BALANCING DAMPER TO REMAIN.
M59	UP TO EXISTING TO REMAIN GRAVITY VENTILATOR ON ROOF.



1 LEVEL 1 DEMO PLAN - FIELD HOUSE
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2023 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

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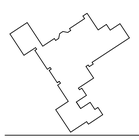
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 MECHANICAL DEMOLITION PLAN - FIELD HOUSE

SHEET NUMBER

M1.11

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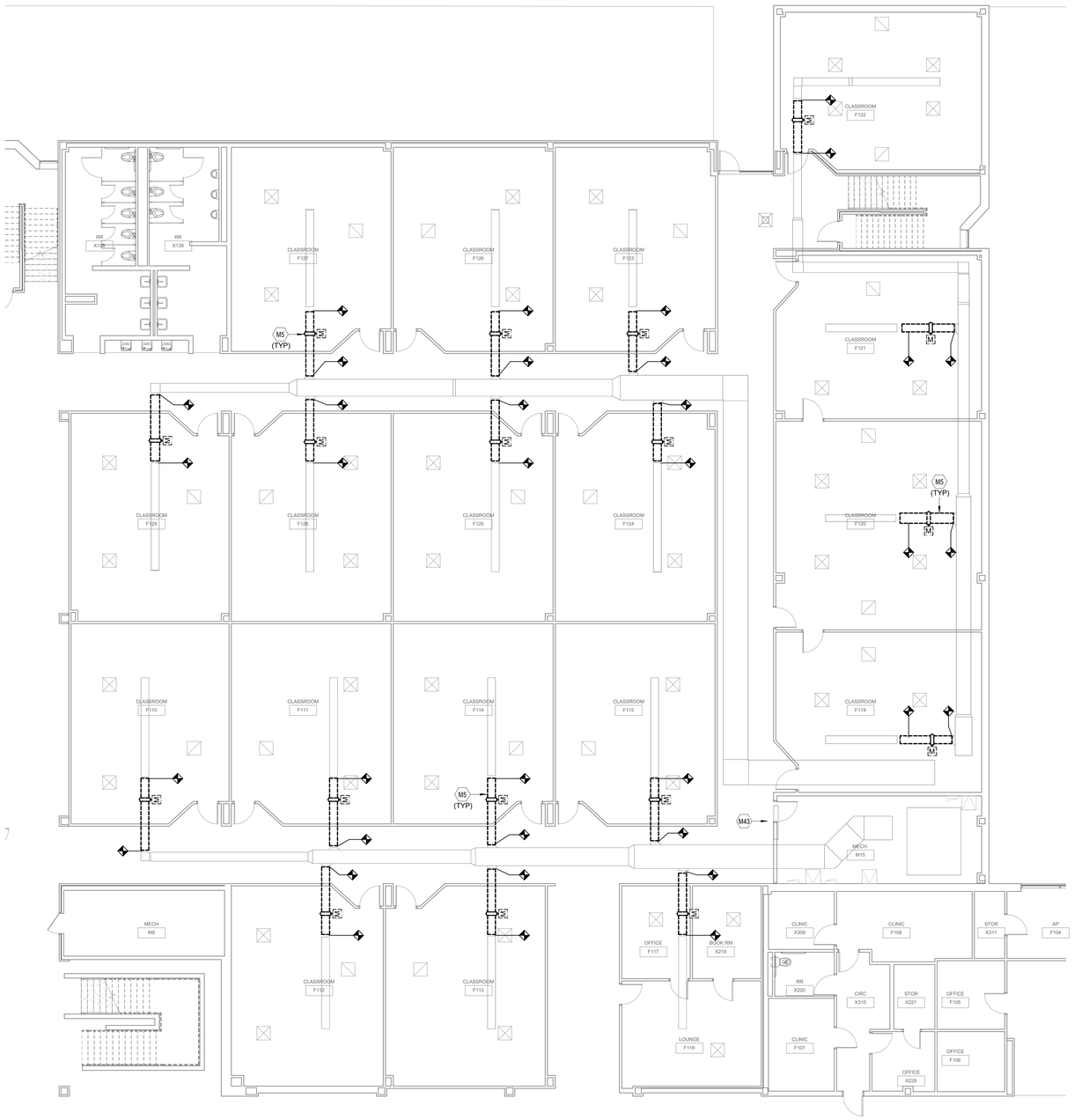
TAGGED NOTES	##
M5	EXISTING MODULATING DAMPERS AND ASSOCIATED THERMOSTAT TO BE DEMOLISHED. DEMO DUCTWORK A MINIMUM OF 3 FEET DOWNSTREAM OF MODULATING DAMPER AND UPSTREAM BACK TO THE DUCT MAIN TAP. THE EXISTING MAIN DUCT TAP IS EXISTING TO REMAIN. EXISTING DIFUSSERS AND OTHER DUCTWORK WITHIN AREA F SHALL REMAIN.
M43	CUT OPENING IN WALL FROM MECHANICAL ROOM TO CORRIDOR PLENUM FOR RETURN AIR PATH. OPENING SHALL BE 60"X28".



1 LEVEL 1 DEMO PLAN - AREA F
1/8" = 1'-0"

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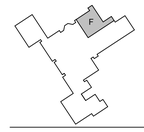
KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 MECHANICAL DEMOLITION PLAN - AREA F

SHEET NUMBER

M1.12

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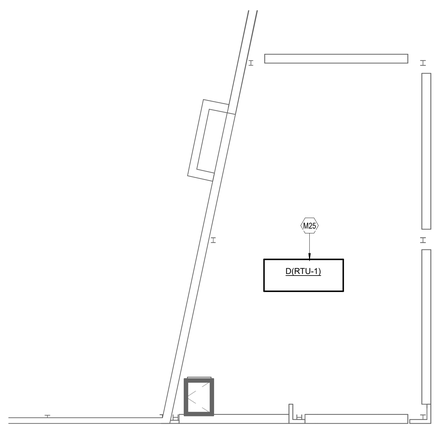
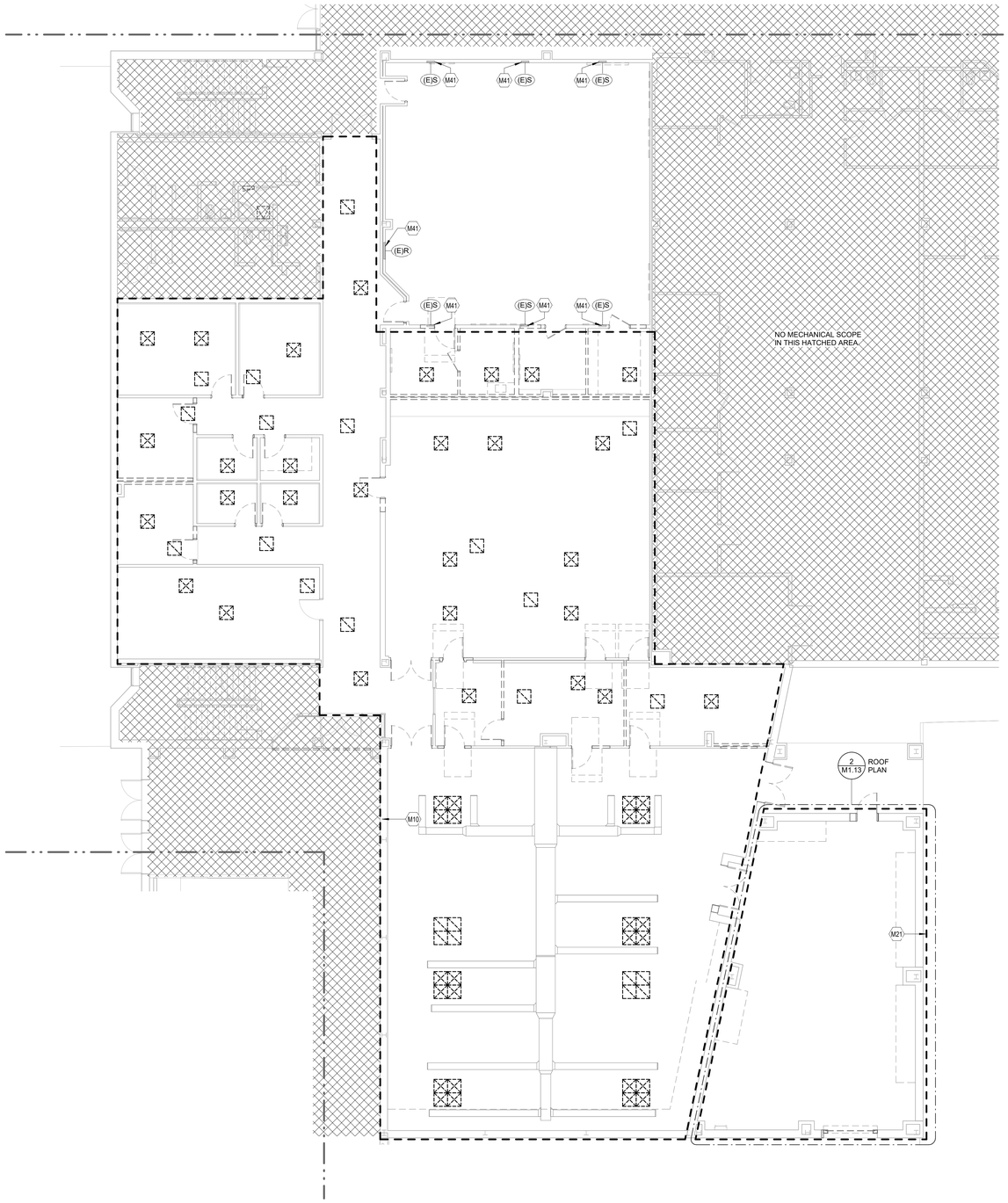
TAGGED NOTES	##
M10	EXISTING AIR HANDLING UNITS WITHIN THIS DASH OUTLINE ARE EXISTING TO REMAIN. DUCTWORK SHALL REMAIN. GRD'S AND ASSOCIATED FLEX DUCT SHALL BE DEMOLISHED AND REPLACED WITH NEW.
M21	EXISTING RTU SERVING THIS DASHED OUTLINE TO BE DEMOLISHED AND REPLACED WITH NEW. EXISTING DUCTWORK TO REMAIN. GRD'S AND ASSOCIATED FLEX DUCT SHALL BE DEMOLISHED AND REPLACED WITH NEW.
M25	EXISTING RTU SERVING SPACE LOCATED BELOW TO BE DEMOLISHED AND REPLACED WITH NEW. THE EXISTING ROOF CURB SHALL REMAIN AND BE FITTED WITH A CURB ADAPTOR FOR NEW UNIT.
M41	REMOVE EXISTING DIFFUSER TO CLEAN AND REINSTALL IN EXISTING LOCATION.



2 PARTIAL ROOF MECHANICAL DEMO PLAN - AREA B1
1/8" = 1'-0"



1 LEVEL 1 MECHANICAL DEMO PLAN - AREA B1
1/8" = 1'-0"

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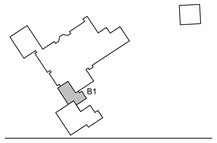

SHEET TITLE
LEVEL 1 MECHANICAL DEMOLITION PLAN - AREA B1

SHEET NUMBER
M1.13

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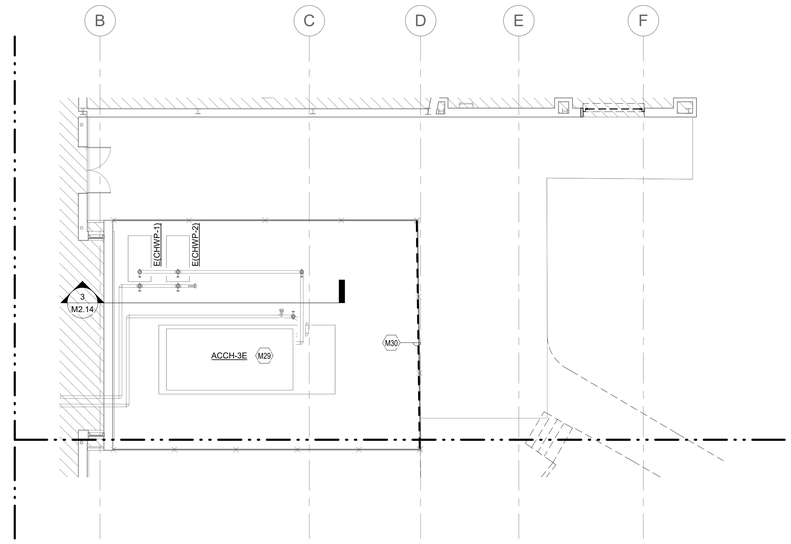
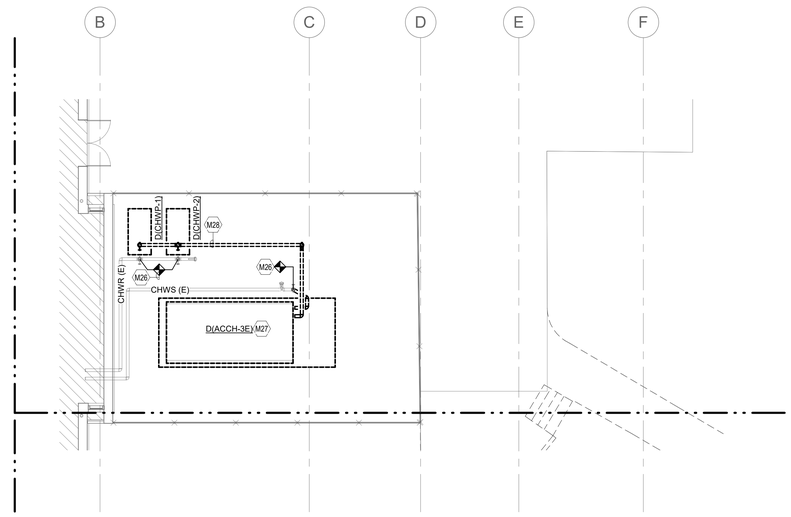
TAGGED NOTES	#
M26	DEMO CHILLED WATER PIPING BELOW VERTICAL CONTROL VALVE BACK TO EQUIPMENT.
M27	DEMO EXISTING AIR COOLED CHILLER AND ASSOCIATED CONCRETE PAD.
M28	DEMO CHILLED WATER PUMPS AND ALL CHILLED WATER PIPING BETWEEN PUMPS AND EXISTING AIR COOLED CHILLER.
M29	ALL EXISTING PIPING AND EQUIPMENT TO REMAIN.
M30	DEMO BACK FENCE TO BE EXTENDED.



1 LEVEL 1 MECHANICAL YARD DEMO PLAN - AREA B3
1/8" = 1'-0"



2 LEVEL 1 MECHANICAL YARD DEMO PLAN ALTERNATE - AREA B3
1/8" = 1'-0"

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 MECHANICAL DEMOLITION PLAN - MECH YARD

SHEET NUMBER

M1.14

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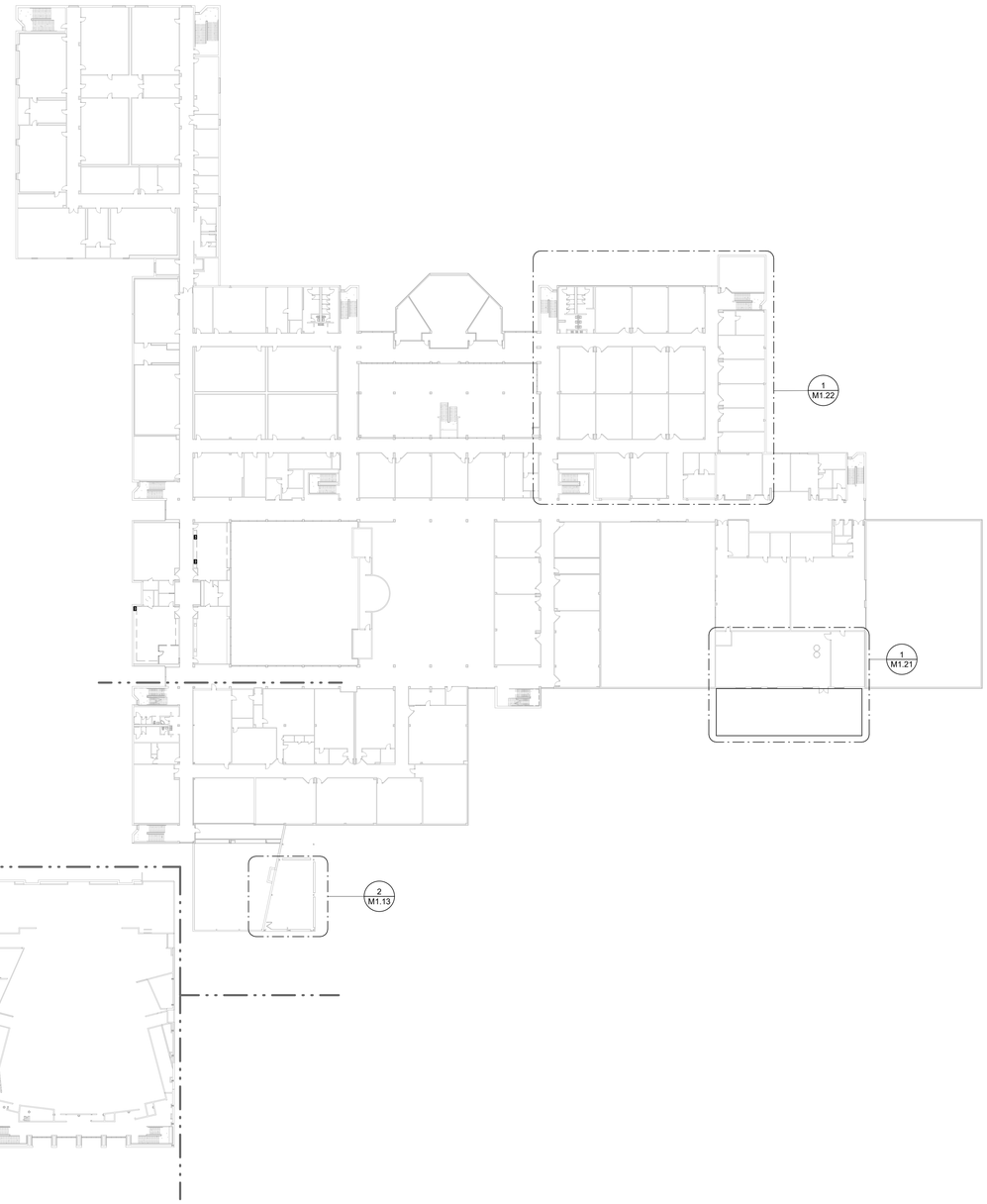
GENERAL NOTES:
- THIS PLAN INDICATES AREAS WITHIN SCHOOL WHERE MECHANICAL DEMOLITION SCOPE IS LOCATED. REFER TO THE INDICATED DRAWINGS FOR DETAILED SCOPE.



1 AIR DISTRIBUTION OVERALL DEMO PLAN - LEVEL 2
1" = 40'-0"

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2025.09.16

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PROJECT NAME

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PROJECT ADDRESS

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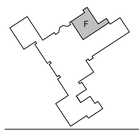
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 MECHANICAL DEMOLITION PLAN OVERALL

SHEET NUMBER

M1.20

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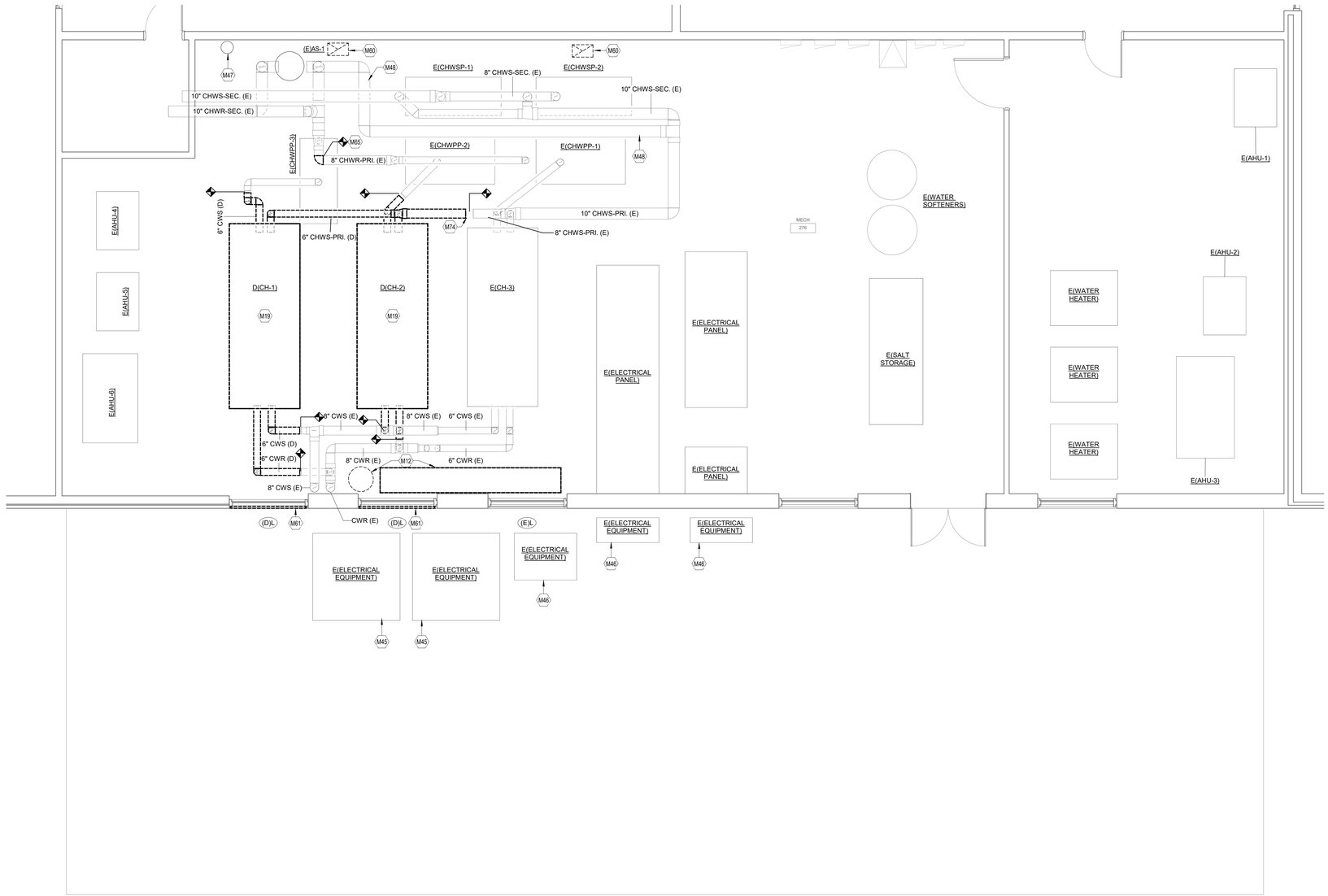
REMOVE HATCHED PORTION OF CHILLED WATER RETURN ON (2) CHILLERS AND REPLACE, REFER TO REPLACEMENT DETAIL BELOW

REMOVE HATCHED PORTION OF CONDENSER WATER RETURN ON (2) CHILLERS AND REPLACE, REFER TO REPLACEMENT DETAIL BELOW



1 ENLARGED AIR DISTRIBUTION DEMO PLAN - CENTRAL PLANT - LEVEL 2
1/4" = 1'-0"

TAGGED NOTES

M12	DEMO & REPLACE EXISTING CONDENSER WATER TREATMENT SYSTEM IN PREPERATION FOR REMOVAL OF CHILLERS.
M19	REMOVE EXISITNG CHILLER THROUGH EXISTING LOUVER OPENING ON 2ND FLOOR. CONTRACTOR TO COORDINATE WITH ELECTRICAL EQUIPMENT ON GROUND WHEN REMOVING AND REPLACING CHILLERS. DEMOLISH EXISTING CHILLER PADS.
M45	EXISITNG GROUND LEVEL ELECTRICAL EQUIPMENT EXISITNG TO REMAIN. CHILLER AND RIGGING WILL NEED TO COME THROUGH LOUVER AND OUT OVER EQUIPMENT. CONTRACTOR TO PLAN FOR NECESSARY EQUIPMENT.
M46	EXISITNG UPPER LEVEL ELECTRICAL EQUIPMENT TO REMAIN. CONTRACTOR TO ENSURE THAT NO ELECTRICAL EQUIPMENT IS DAMAGED DURING REMOVAL OR INSTALLATION OF NEW CHILLERS.
M47	EXISTING POT FEEDER TO REMAIN.
M48	EXISITNG BYPASS PIPING TO REMAIN.
M60	DEMO EXISTING EXHAUST DUCT WORK AND ASSOCIATED EXHAUST FAN ON ROOF.
M61	DEMO LOUVER FOR CHILLER EXTRATION.
M65	FREEZE ELBOW, CUT IN NEW LINE TO CONNECT ISOLATION VALVE.
M74	FREEZE LINE, CUT IN NEW LINE TO CONNECT ISOLATION VALVE.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

PROJECT NAME

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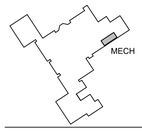
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 MECHANICAL DEMOLITION PLAN - CENTRAL PLANT

SHEET NUMBER

M1.21

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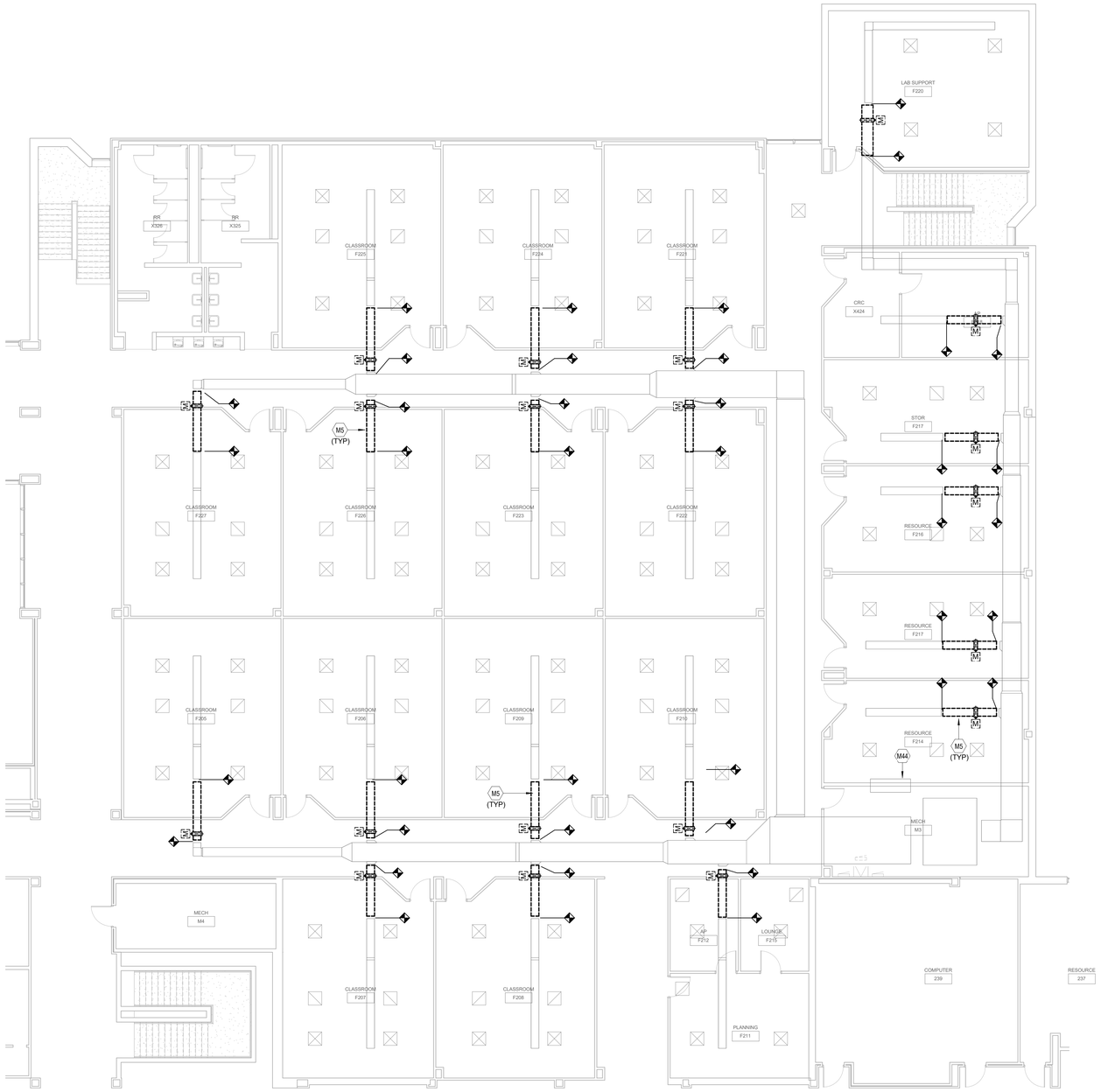
TAGGED NOTES	##
M5	EXISTING MODULATING DAMPERS AND ASSOCIATED THERMOSTAT TO BE DEMOLISHED. DEMO DUCTWORK A MINIMUM OF 3 FEET DOWNSTREAM OF MODULATING DAMPER AND UPSTREAM BACK TO THE DUCT MAIN TAP. THE EXISTING MAIN DUCT TAP IS EXISTING TO REMAIN. EXISTING DIFUSSERS AND OTHER DUCTWORK WITHIN AREA F SHALL REMAIN.
M44	EXISTING 72X28 RETURN AIR OPENING TO REMAIN.



1 LEVEL 2 DEMO PLAN - AREA F
1/8" = 1'-0"

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FORT BEND 2025 BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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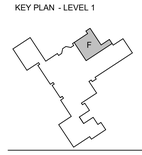
PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 2 MECHANICAL DEMOLITION PLAN - AREA F

SHEET NUMBER

M1.22

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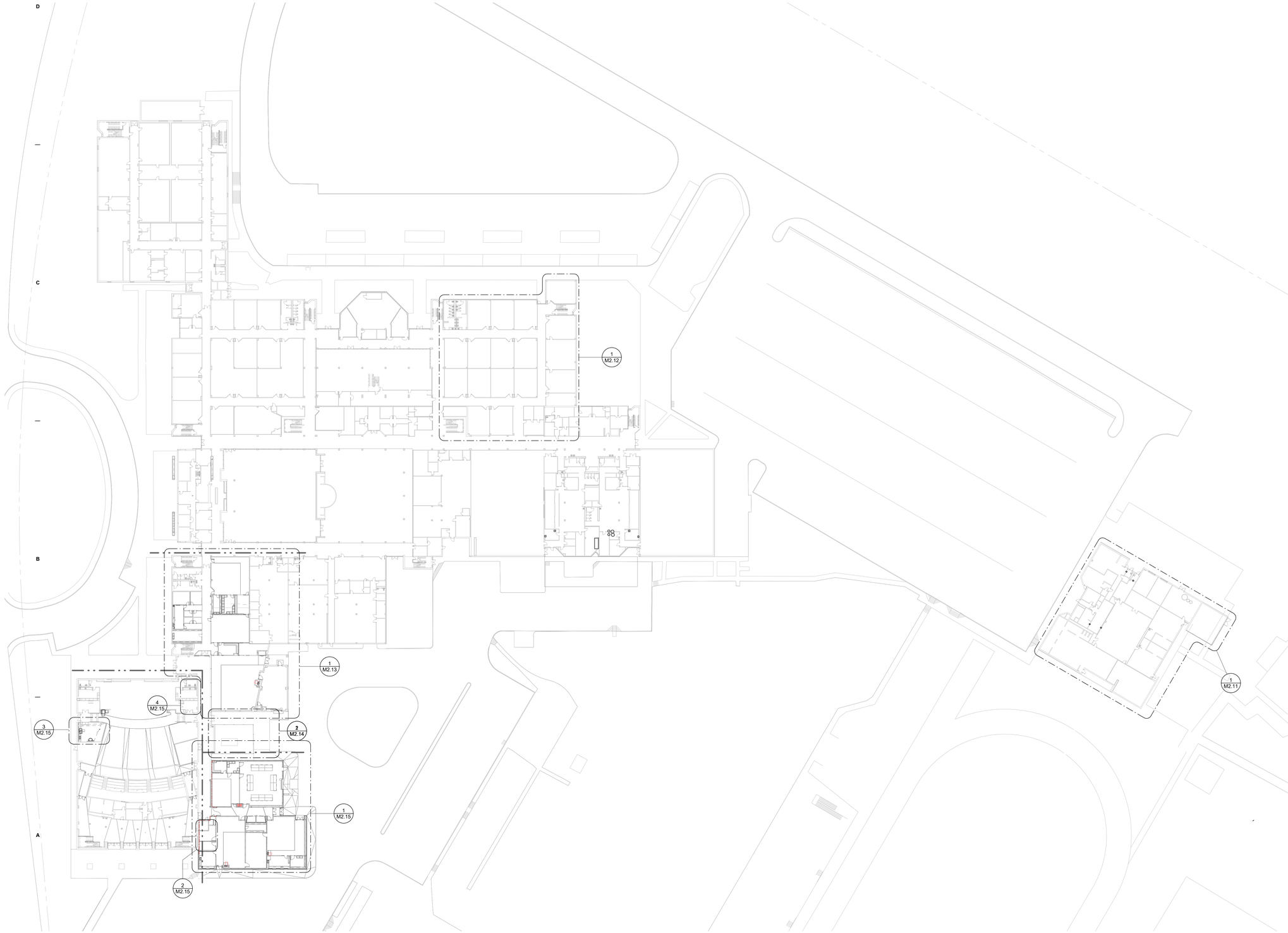
GENERAL MECHANICAL NOTES:

- THE PURPOSE OF THIS SHEET IS TO INDICATE AREAS WHERE NEW MECHANICAL WORK IS TAKING PLACE. REFER TO CALLOUT PLANS FOR ADDITIONA DETAILS.



1 LEVEL 1 OVERALL MECHANICAL NEW WORK PLAN
1" = 40'-0"

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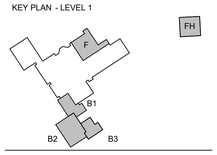
KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 OVERALL MECHANICAL PLAN

SHEET NUMBER

M2.10

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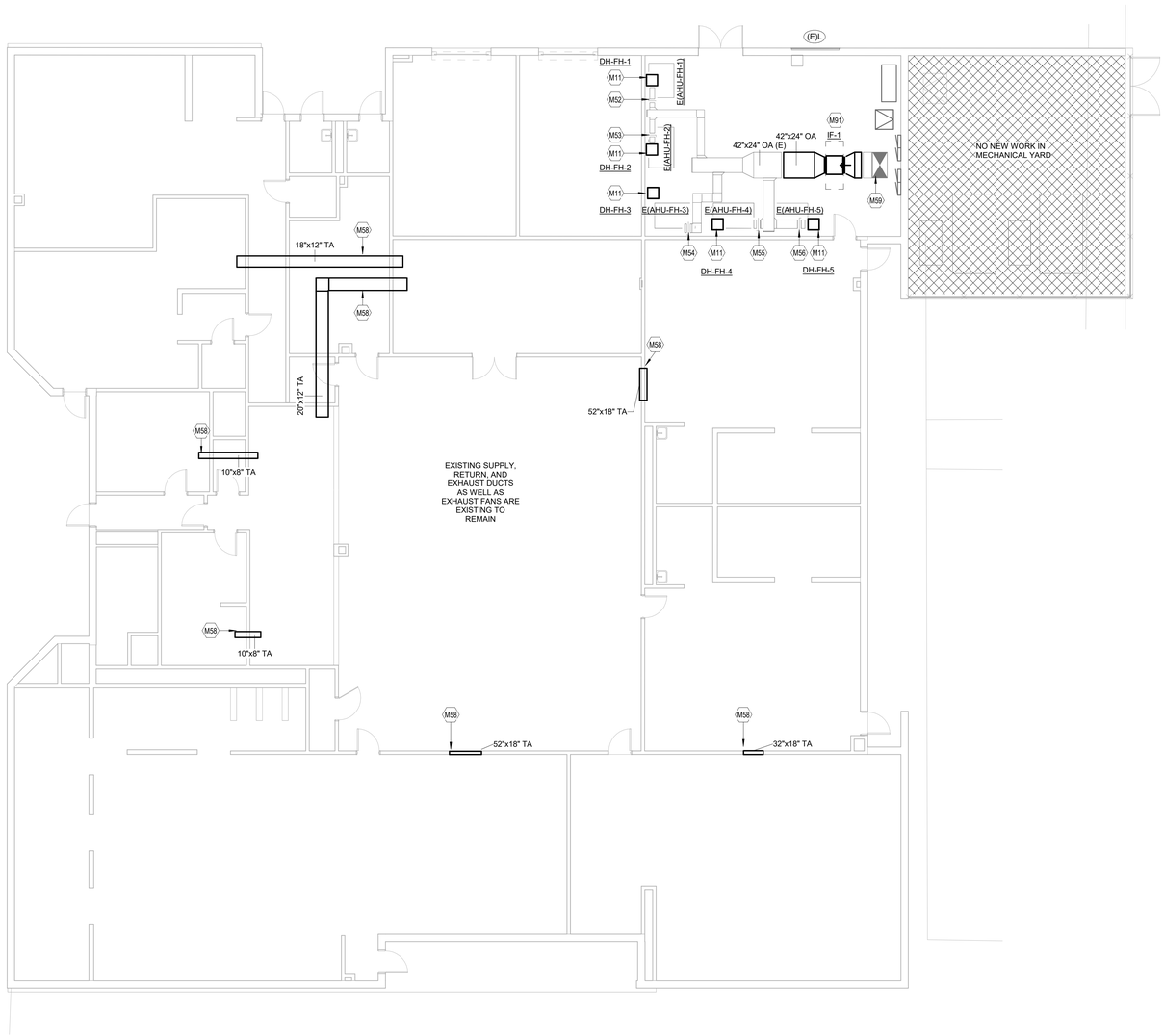
TAGGED NOTES	##
M11	FURNISH AND INSTALL NEW ELECTRIC DUCT HEATER WITH SCR CONTROLS IN EXISTING SA DUCTWORK. HEATER SHALL BE LOCATED IN SAME LOCATION AS DEMOLISHED HEATER.
M52	BALANCE EXISTING DAMPER FOR 550 CFM.
M53	BALANCE EXISTING DAMPER FOR 1440 CFM.
M54	BALANCE EXISTING DAMPER FOR 2540 CFM.
M55	BALANCE EXISTING DAMPER FOR 2200 CFM.
M56	BALANCE EXISTING DAMPER FOR 1350 CFM.
M58	CUT IN TRANSFER AIR PATHS ABOVE CEILING BETWEEN PLENUMS. FIELD VERIFY THAT THESE TRANSFER PATHS DO NOT ALREADY EXIST.
M59	UP TO EXISTING TO REMAIN GRAVITY VENTILATOR ON ROOF.
M91	FURNISH AND INSTALL NEW OA SUPPLY FAN, IF-1 IN OA DUCTWORK. FAN SHALL SUPPLY VENTILATION AIR TO AIR HANDLING UNITS.



1 LEVEL 1 AIR DISTRIBUTION - FIELD HOUSE
1/8" = 1'-0"

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PROJECT NAME

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PROJECT ADDRESS

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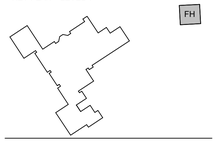
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 MECHANICAL PLAN - FIELD HOUSE

SHEET NUMBER

M2.11

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1 LEVEL 1 AIR DISTRIBUTION - AREA F
1/8" = 1'-0"

TAGGED NOTES ##

M8	PROVIDE NEW FVAV WITH ELECTRIC HEAT COILS AND NEW TEMPERATURE SENSOR. DIFFUSERS AND DUCTWORK DOWNSTREAM OF FVAV BOX EXISTING TO REMAIN. PROVIDE NEW FVAV DUCT INLET SIZED FROM SCHEDULE AND ENSURE A MINIMUM LENGTH OF 3 INLET DUCT DIAMETERS BETWEEN FVAV BOX AND EXISTING DUCT MAIN.
M15	REFER TO CONTROL SCHEMATICS AND SEQUENCES ON M6.01 FOR SCOPE OF WORK FOR EXISTING AIR HANDLING UNIT.
M43	CUT OPENING IN WALL FROM MECHANICAL ROOM TO CORRIDOR PLENUM FOR RETURN AIR PATH. OPENING SHALL BE 60"X28".

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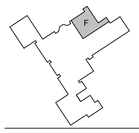

SHEET TITLE

LEVEL 1 MECHANICAL PLAN - AREA F

SHEET NUMBER

M2.12

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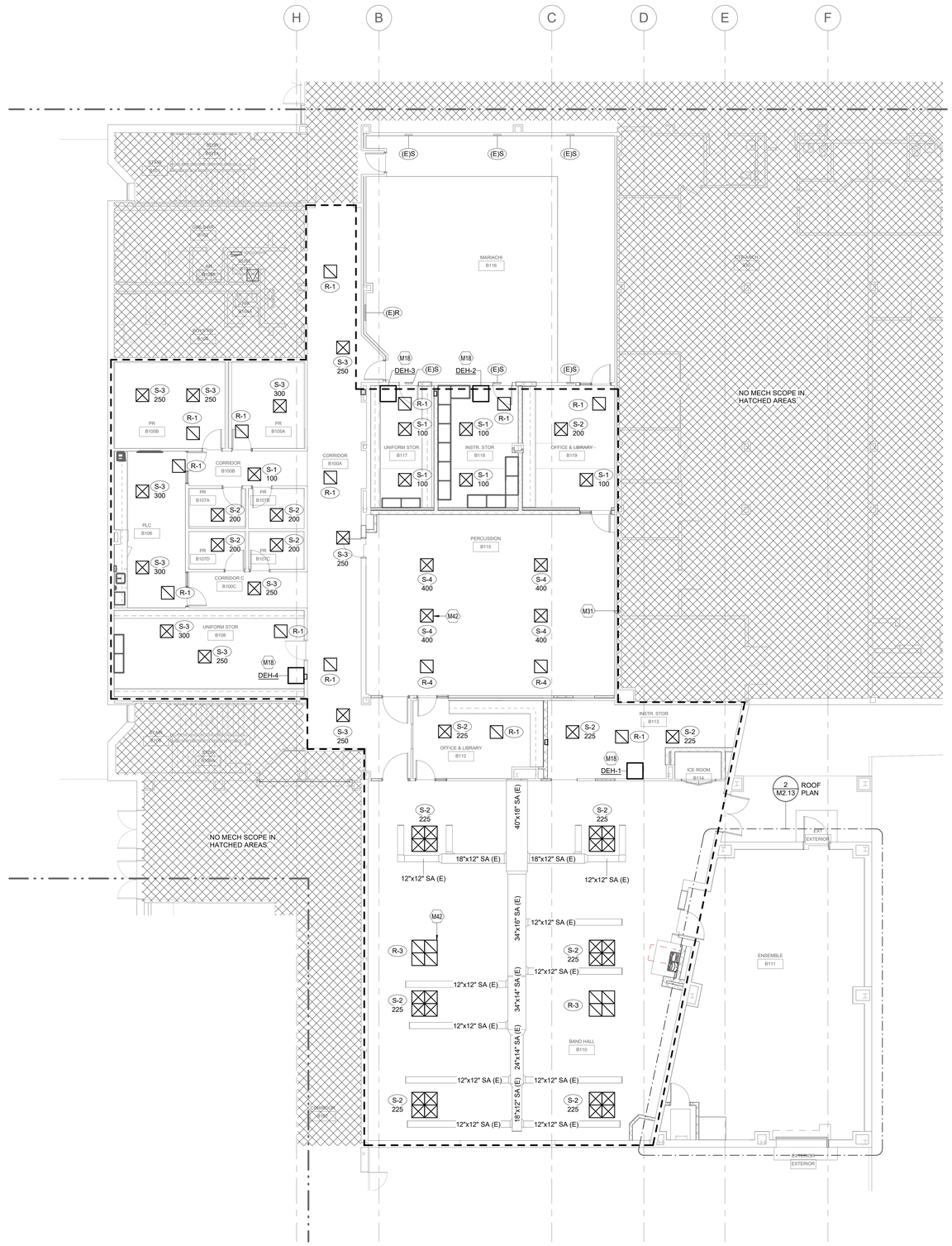
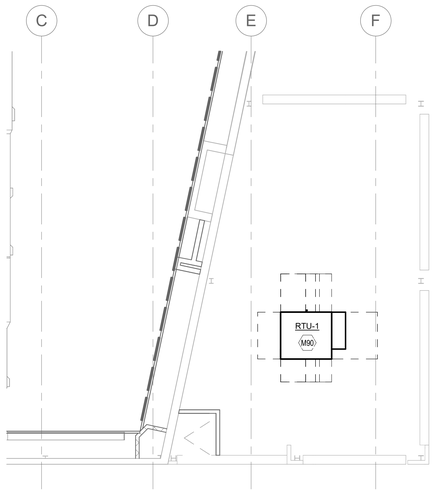
TAGGED NOTES	##
M18	PROVIDE DEHUMIDIFIER DESERT AIRE HPR120 OR EQUAL. TO BE INSTALLED ON WALL BELOW CEILING WITH WALL MOUNTING BRACKET. ROUTE CONDENSATE TO CONDENSATE WALL BOX PROVIDED ON PLUMBING SHEETS.
M31	PROVIDE NEW GRD'S AND ASSOCIATED FLEX DUCT IN THIS DASH OUTLINE. BALANCE GRD'S TO NEW CFM SHOWN ON PLANS.
M42	GRD'S IN HIGH CEILING. TYPICAL FOR ROOM.
M90	FURNISH AND INSTALL NEW RTU-1 LOCATED ON EXISTING ROOF CURB WITH CURB ADAPTOR. VERIFY FINAL EQUIPMENT SELECTION FOR CURB ADAPTOR AND WEIGHT WITH STRUCTURAL ENGINEER. UNIT SUPPLY AND RETURN DUCT SHALL CONNECT TO EXISTING. ROUTE CONDENSATE DRAIN LINE TO NEAREST ROOF DRAIN.





2 PARTIAL ROOF PLAN MECHANICAL NEW PLAN - AREA B1
1/8" = 1'-0"

1 LEVEL 1 MECHANICAL NEW PLAN - AREA B1
1/8" = 1'-0"

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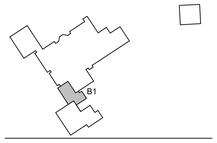

SHEET TITLE

LEVEL 1 MECHANICAL PLAN - AREA B1

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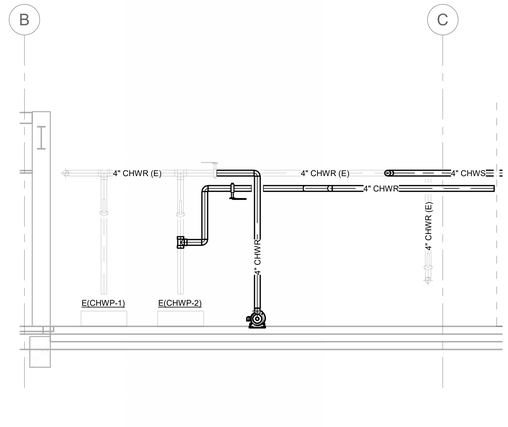
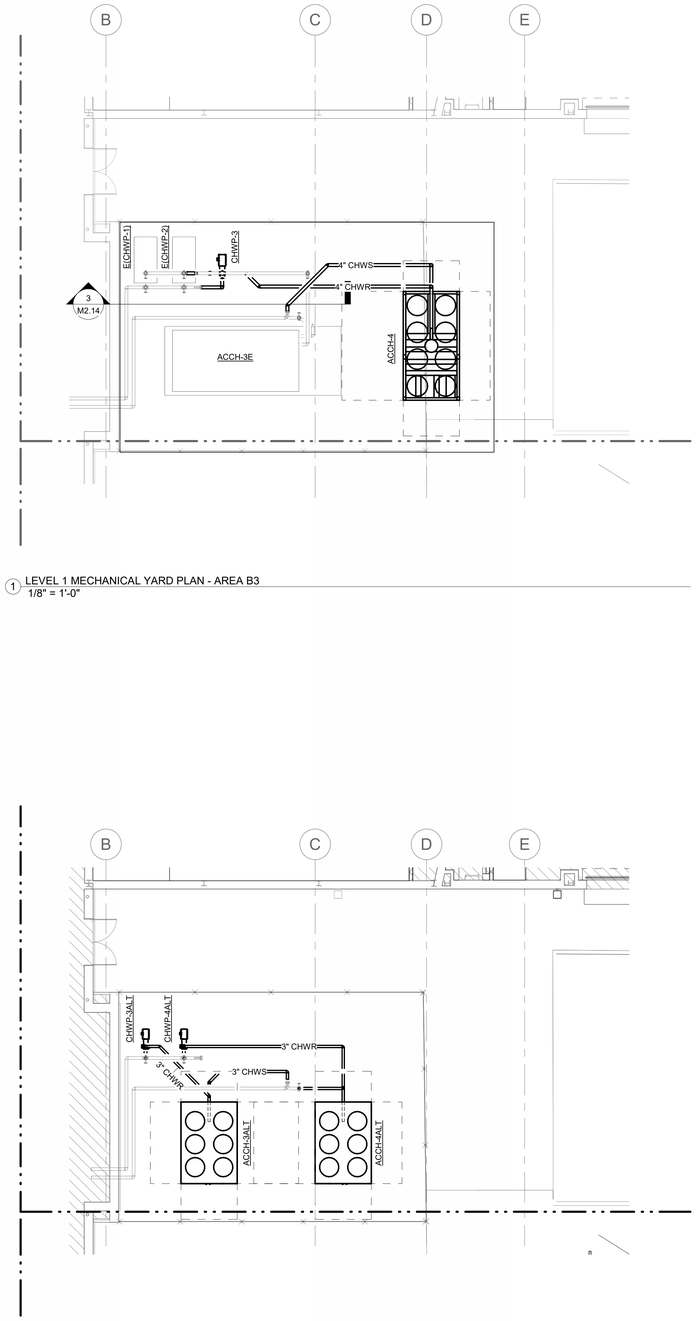


3 SECTION VIEW - MECHANICAL YARD PLAN
1/4" = 1'-0"



1 LEVEL 1 MECHANICAL YARD PLAN - AREA B3
1/8" = 1'-0"

2 LEVEL 1 MECHANICAL YARD PLAN ALTERNATE - AREA B3
1/8" = 1'-0"

TAGGED NOTES ##

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KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 MECHANICAL PLAN - MECH YARD

SHEET NUMBER

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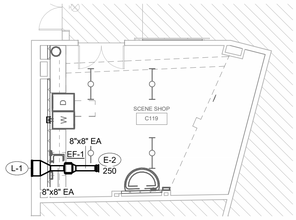
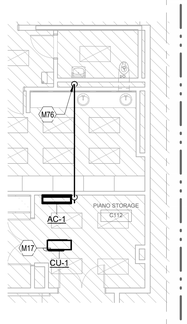
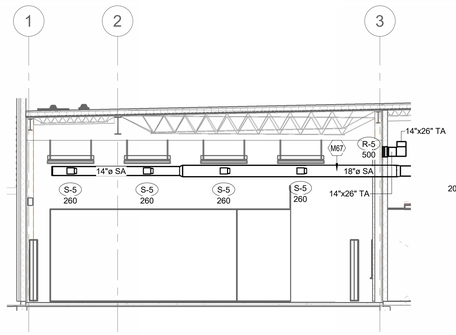
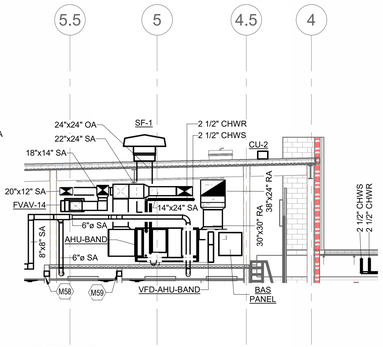


3 ENLARGED MECHANICAL PLAN - SCENE SHOP - AREA B2
1/8" = 1'-0"

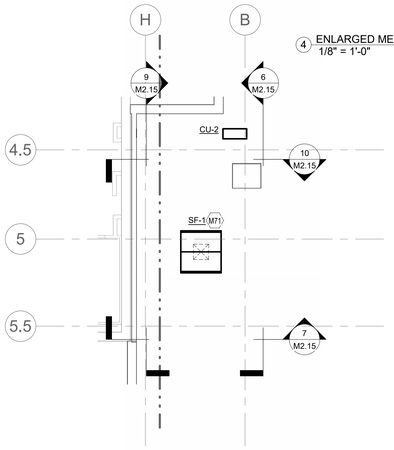




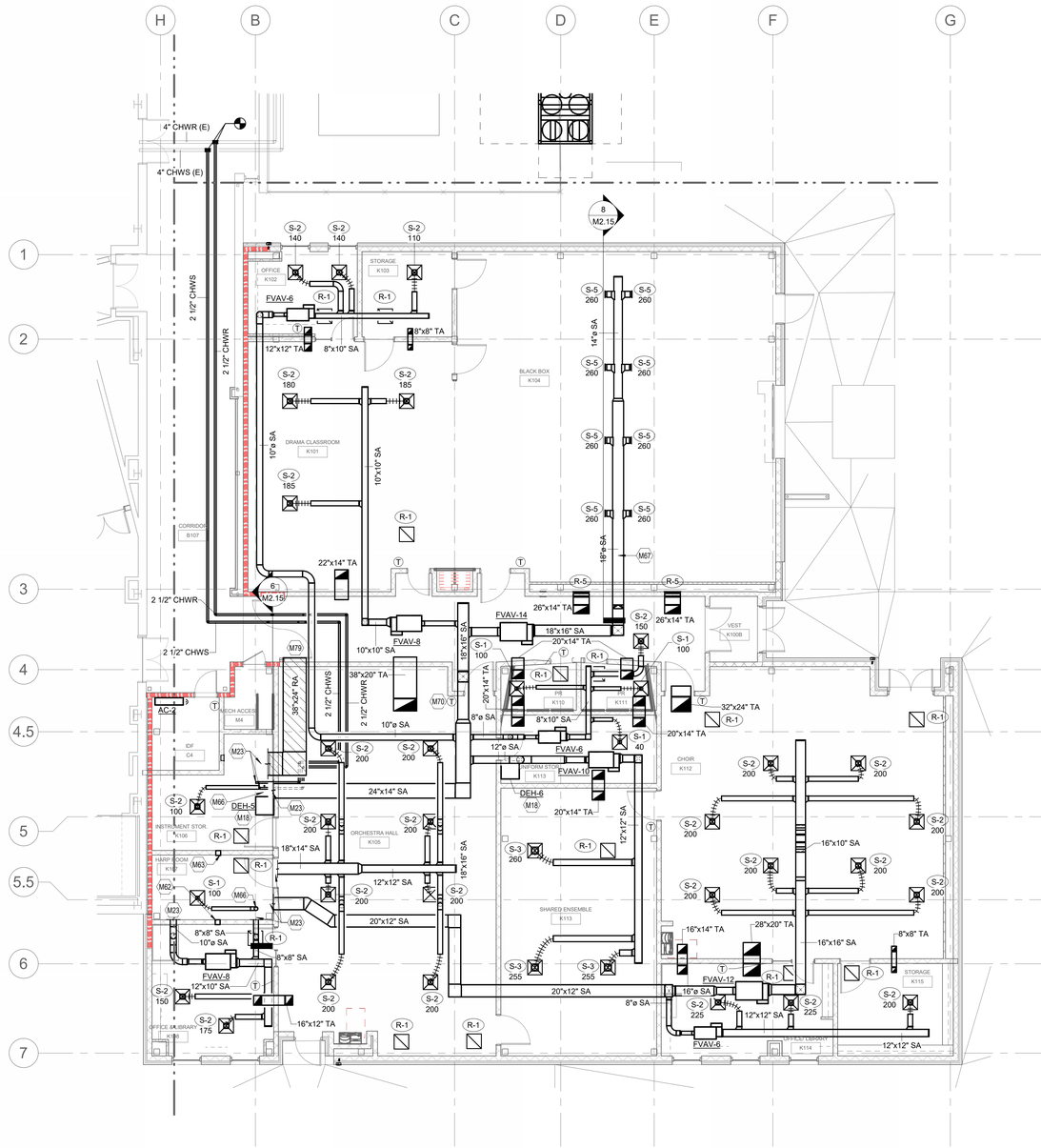
8 SECTION VIEW - BLACK BOX - AREA B3
1/8" = 1'-0"



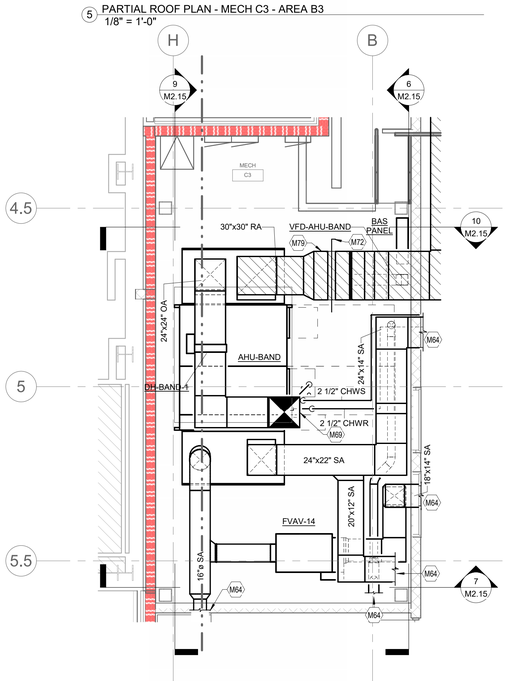
6 SECTION VIEW - MECH C3
1/8" = 1'-0"



4 ENLARGED MECHANICAL PLAN - PIANO STORAGE - AREA B2
1/8" = 1'-0"



1 LEVEL 1 AIR DISTRIBUTION PLAN - AREA B3
1/8" = 1'-0"

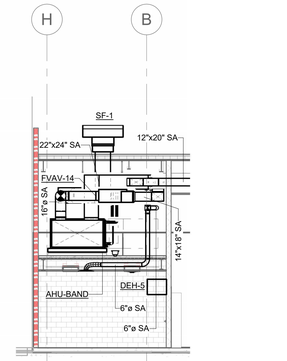


5 PARTIAL ROOF PLAN - MECH C3 - AREA B3
1/8" = 1'-0"

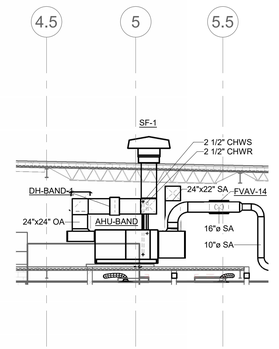
2 ENLARGED MECHANICAL VIEW - MECH C3 - AREA B3
1/4" = 1'-0"

TAGGED NOTES

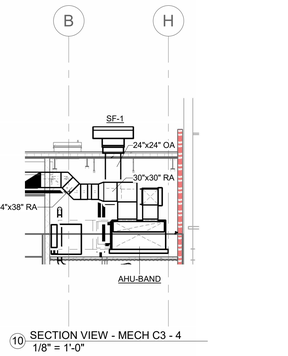
M17	CU-1 TO BE MOUNTED ON ROOF.
M18	PROVIDE DEHUMIDIFIER DESERT AIRE HPR120 OR EQUAL. TO BE INSTALLED ON WALL BELOW CEILING WITH WALL MOUNTING BRACKET. ROUTE CONDENSATE TO CONDENSATE WALL BOX PROVIDED ON PLUMBING SHEETS.
M23	REFER TO 2/M2.15 FOR DUCTWORK CONTINUATION.
M58	CUT IN TRANSFER AIR PATHS ABOVE CEILING BETWEEN PLENUMS. FIELD VERIFY THAT THESE TRANSFER PATHS DO NOT ALREADY EXIST.
M59	UP TO EXISTING TO REMAIN GRAVITY VENTILATOR ON ROOF.
M62	PROVIDE 10"X10" WALL OPENING ABOVE CEILING FOR AIR TRANSFER.
M63	PROVIDE 8"X8" WALL OPENING ABOVE CEILING FOR AIR TRANSFER.
M64	REFER TO 1/M2.15 FOR DUCTWORK CONTINUATION.
M66	SUPPLY DUCTWORK ROUTED DOWN FROM MECHANICAL ROOM ABOVE. REFER TO 2/M.15 FOR DUCTWORK CONTINUATION.
M67	EXPOSED DUCTWORK SHALL BE DOUBLE WALL ROUND DUCT WITH PAIN GRIP FINISH. PAINT COLOR TO BE BLACK. PROVIDE ESCUCHEON PLATE AT WALL PENETRATION.
M69	24"X24" OA DUCTWORK ROUTED DOWN FROM ROOF MOUNTED SUPPLY FAN.
M70	NEW THERMOSTAT TO SERVE FVAV-14 LOCATED IN MECH C3.
M71	NEW ROOF MOUNTED SUPPLY FAN. ROUTE DUCTWORK DOWN TO MECH C3. REFER TO PLANS FOR MORE INFORMATION.
M72	PROVIDE MANUAL DAMPER AS SHOWN ON PLANS.
M76	ROUTE CONDENSATE DOWN IN WALL AND SPILL TO LAVATORY P-TRAP VIA TAIL-PIECE WYE. COORDINATE WITH PLUMBING.
M79	INTERALLY LINE HATCHED RA DUCTWORK WITH 1 INCH ACOUSTICAL LINER. REFER TO 1/M2.15 & 2/M2.15 FOR FULL DUCTWORK ROUTED WITH HATCHED LINE.



7 SECTION VIEW - MECH C3 - 2
1/8" = 1'-0"



9 SECTION VIEW - MECH C3 - 3
1/8" = 1'-0"



10 SECTION VIEW - MECH C3 - 4
1/8" = 1'-0"

Kirksey ARCHITECTURE

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STATE OF TEXAS
RICHARD LOPEZ
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LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

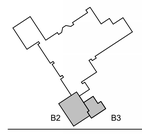
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 MECHANICAL PLAN - AREA B3

SHEET NUMBER

M2.15

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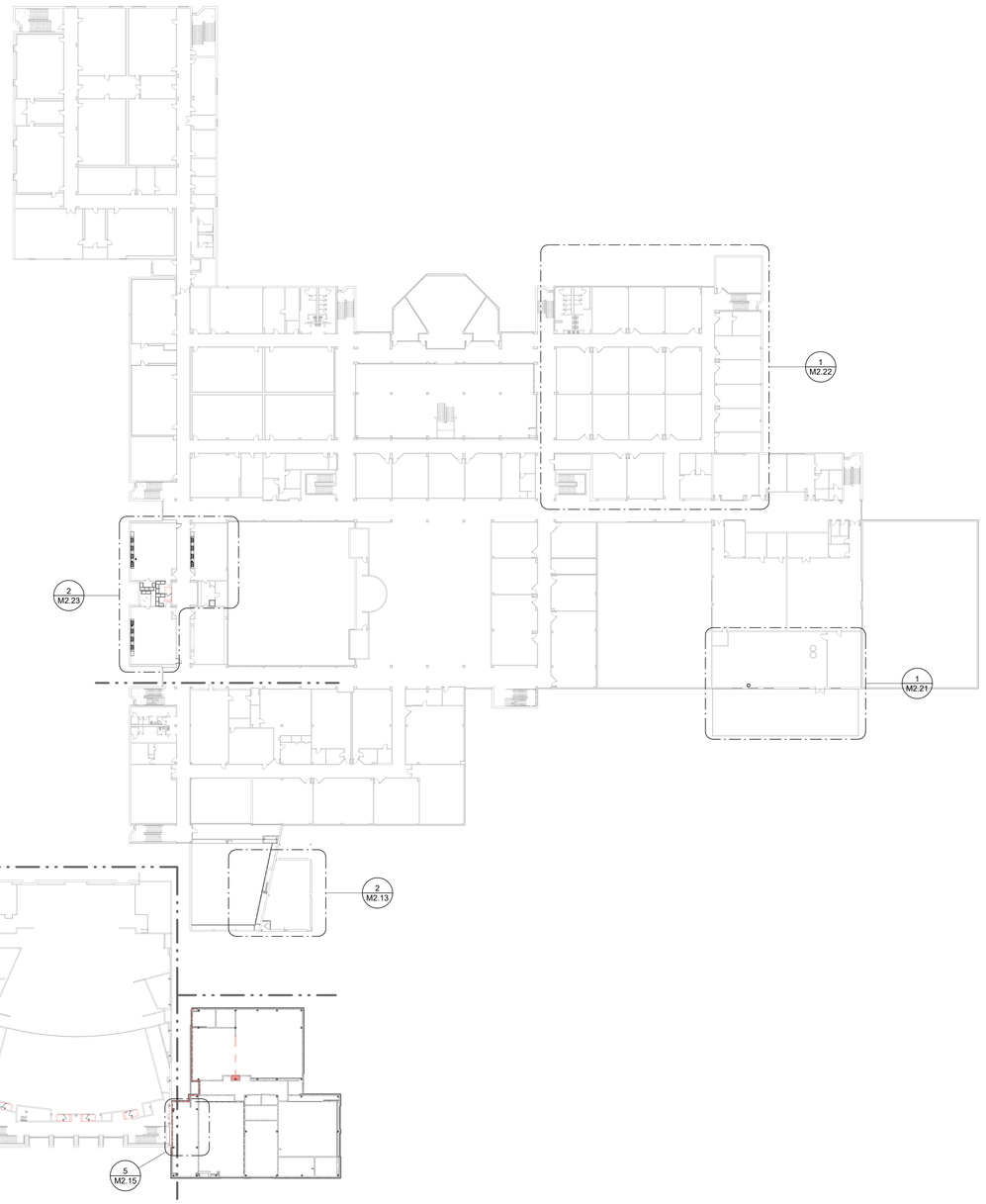
GENERAL NOTES:
- THIS PLAN INDICATES AREAS WITHIN SCHOOL WHERE MECHANICAL SCOPE IS LOCATED. REFER TO THE INDICATED DRAWINGS FOR DETAILED SCOPE.



1 AIR DISTRIBUTION OVERALL PLAN - LEVEL 2
1" = 40'-0"

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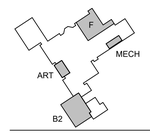
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 OVERALL MECHANICAL PLAN

SHEET NUMBER

M2.20

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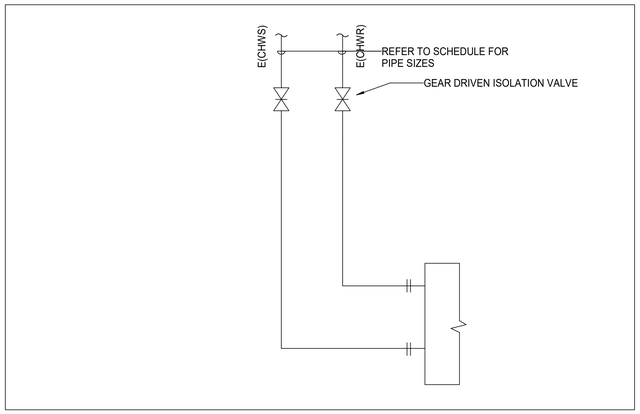
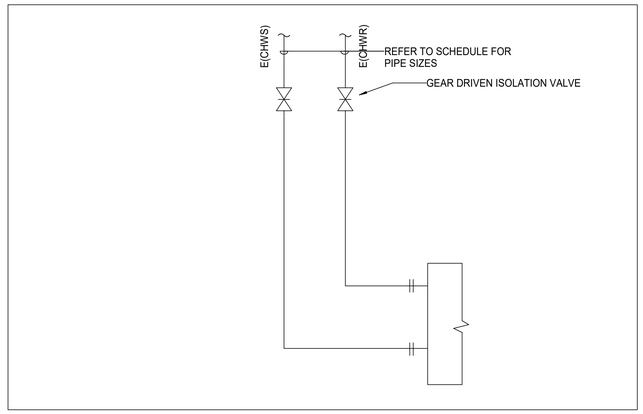
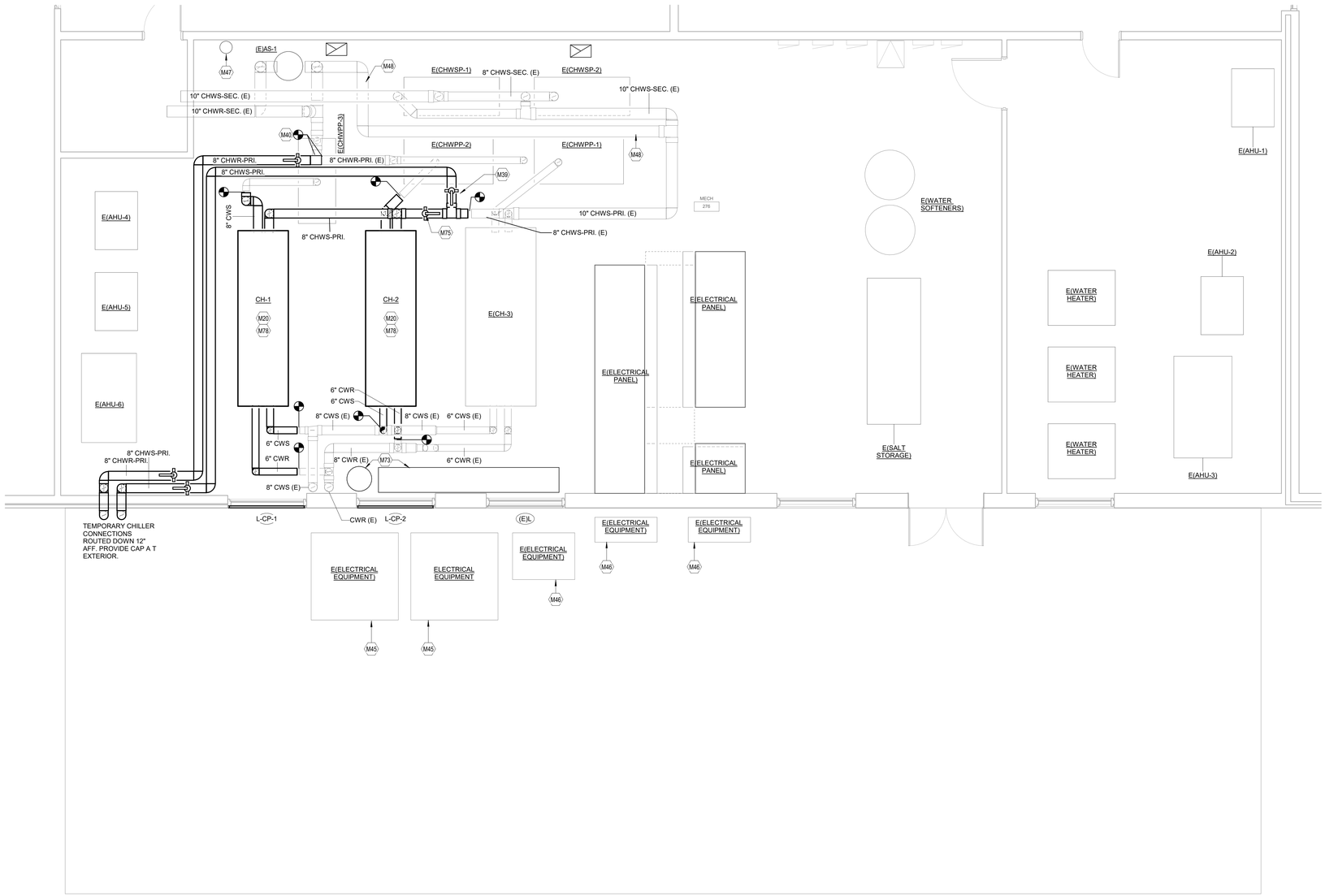


3 CONDENSER WATER VALVE REPLACEMENT DETAIL
1/4" = 1'-0"



2 CHILLED WATER VALVE REPLACEMENT DETAIL
1/4" = 1'-0"



1 LEVEL 2 AIR DISTRIBUTION PLAN - CENTRAL PLANT
1/4" = 1'-0"

TAGGED NOTES ##

M20	INSTALL NEW CHILLER THROUGH EXISTING LOUVER OPENING ON 2ND FLOOR. CONTRACTOR TO COORDINATE WITH ELECTRICAL EQUIPMENT ON GROUND WHEN REMOVING AND ADDING CHILLERS.
M39	NEW CONNECTION POINT FOR TEMP CHILLER SUPPLY. FREEZE PIPE AND INSTALL NEW ISOLATION VALVE AS SHOWN.
M40	NEW CONNECTION POINT FOR TEMP CHILLER RETURN. FREEZE PIPE AND INSTALL NEW ISOLATION VALVE AS SHOWN.
M45	EXISITNG GROUND LEVEL ELECTRICAL EQUIPMENT EXISTING TO REMAIN. CHILLER AND RIGGING WILL NEED TO COME THROUGH LOUVER AND OUT OVER EQUIPMENT. CONTRACTOR TO PLAN FOR NECESSARY EQUIPMENT.
M46	EXISITNG UPPER LEVEL ELECTRICAL EQUIPMENT TO REMAIN. CONTRACTOR TO ENSURE THAT NO ELECTRICAL EQUIPMENT IS DAMAGED DURING REMOVAL OR INSTALLATION OF NEW CHILLERS.
M47	EXISTING POT FEEDER TO REMAIN.
M48	EXISITNG BYPASS PIPING TO REMAIN.
M73	NEW CONDENSER WATER TREATMENT SYSTEM TO BE INSTALLED AFTER NEW CHILLERS HAVE BEEN MOVED IN AND INSTALLED IN FULL.
M75	NEW PERMANENT CHWS-PRI. PIPING. FREEZE PIPE AND INSTALL NEW ISOLATION VALVE AS SHOWN.
M78	INSTALL NEW CONCRETE PADS WITH VIBRATION ISOLATORS FOR NEW CHILLERS. VIBRATION ISOLATORS TO BE MASON INDUSTRIES MODEL SLR-3-136 (MINIMUM 3" DEFLECTION), QTY (4).

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CMTA F-8627
2025.09.16

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A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

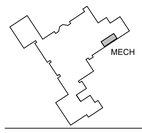
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 MECHANICAL PLAN - CENTRAL PLANT

SHEET NUMBER

M2.21

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TAGGED NOTES	##
M8	PROVIDE NEW FVAV WITH ELECTRIC HEAT COILS AND NEW TEMPERATURE SENSOR. DIFFUSERS AND DUCTWORK DOWNSTEREAM OF FVAV BOX EXISTING TO REMAIN. PROVIDE NEW FVAV DUCT INLET SIZED FROM SCHEDULE AND ENSURE A MINIMUM LENGTH OF 3 INLET DUCT DIAMETERS BETWEEN FVAV BOX AND EXISTING DUCT MAIN.
M14	PROVIDE NEW 72X28 TRANSFER AIR PATH FROM CORRIDOR PLENUM BY CUTTING HOLE IN WALL ABOVE CEILING.
M15	REFER TO CONTROL SCHEMATICS AND SEQUENCES ON M6.01 FOR SCOPE OF WORK FOR EXISTING AIR HANDLING UNIT.
M44	EXISTING 72X28 RETURN AIR OPENING TO REMAIN.

TAGGED NOTES	##
M8	PROVIDE NEW FVAV WITH ELECTRIC HEAT COILS AND NEW TEMPERATURE SENSOR. DIFFUSERS AND DUCTWORK DOWNSTEREAM OF FVAV BOX EXISTING TO REMAIN. PROVIDE NEW FVAV DUCT INLET SIZED FROM SCHEDULE AND ENSURE A MINIMUM LENGTH OF 3 INLET DUCT DIAMETERS BETWEEN FVAV BOX AND EXISTING DUCT MAIN.
M14	PROVIDE NEW 72X28 TRANSFER AIR PATH FROM CORRIDOR PLENUM BY CUTTING HOLE IN WALL ABOVE CEILING.
M15	REFER TO CONTROL SCHEMATICS AND SEQUENCES ON M6.01 FOR SCOPE OF WORK FOR EXISTING AIR HANDLING UNIT.
M44	EXISTING 72X28 RETURN AIR OPENING TO REMAIN.

1 LEVEL 2 AIR DISTRIBUTION PLAN - AREA F
1/8" = 1'-0"

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PROJECT ADDRESS

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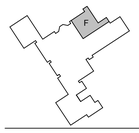
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 MECHANICAL PLAN - AREA F

SHEET NUMBER

M2.22

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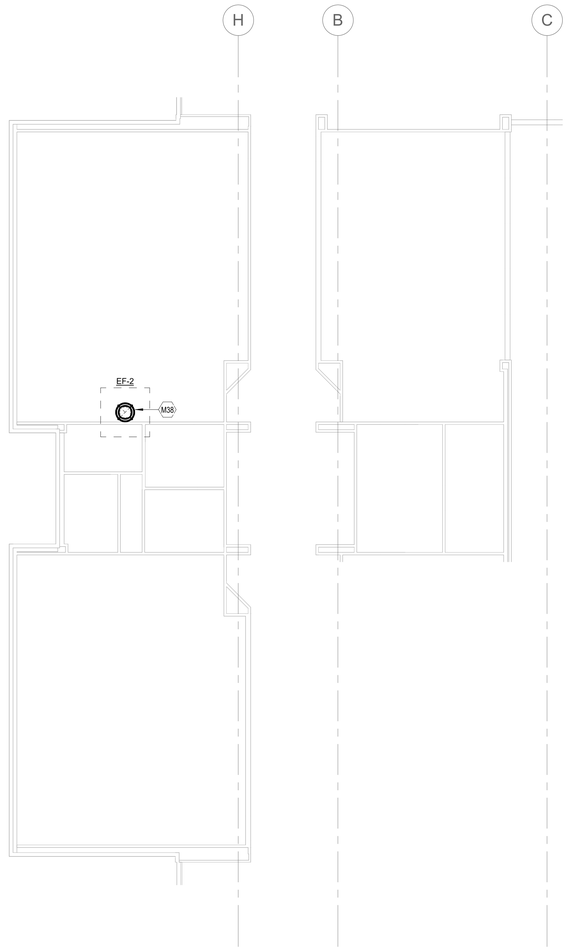
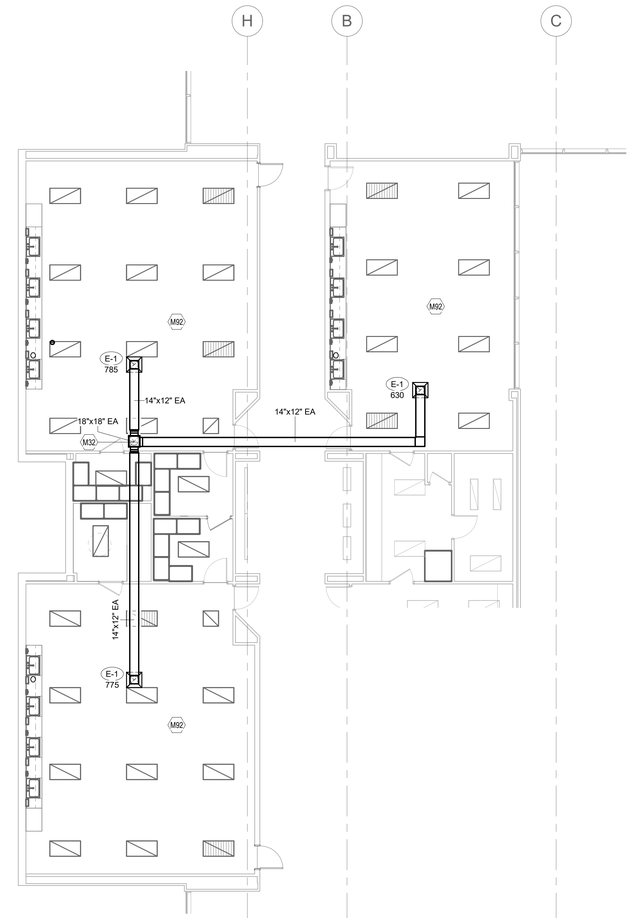
TAGGED NOTES	##
M32	ROUTE 18"X18" EXHAUST DUCT UP TO EF-2 ON ROOF. PROVIDE TRANSITION AS NEEDED TO CONNECT TO CURB.
M38	INSTALL EXHAUST FAN ON ROOF. SEE DETAILS FOR MORE INFORMATION.
M92	EXISTING SUPPLY AND RETURN DUCT AS WELL AS GRD'S SHALL REMAIN IN THIS SPACE.



2 ROOF PLAN - ART
1/8" = 1'-0"



1 LEVEL 2 AIR DISTRIBUTION - ART
1/8" = 1'-0"

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LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND 2025 BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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PROJECT ADDRESS

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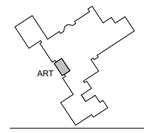
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 MECHANICAL PLAN - ART

SHEET NUMBER

M2.23

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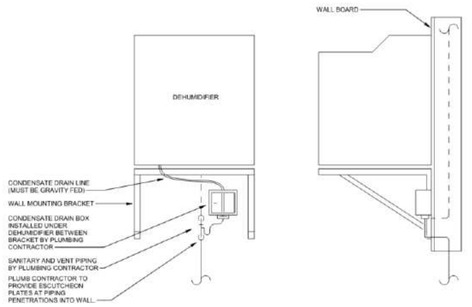
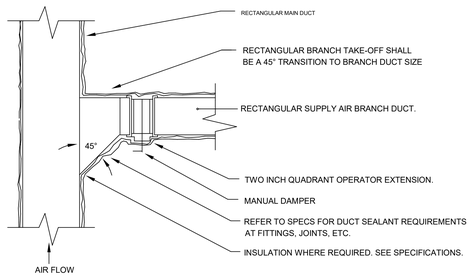


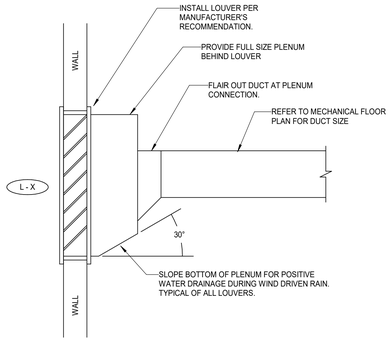
DEHUMIDIFIER INSTALLATION DETAIL

NTS



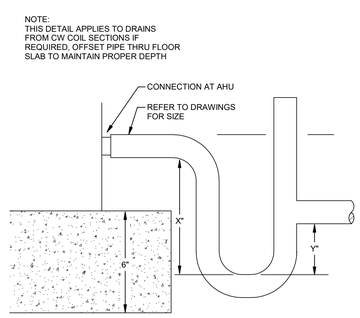
TYPICAL RECTANGULAR SUPPLY, RETURN , & EXAHUST BRANCH DUCT TAKE OFF

NTS



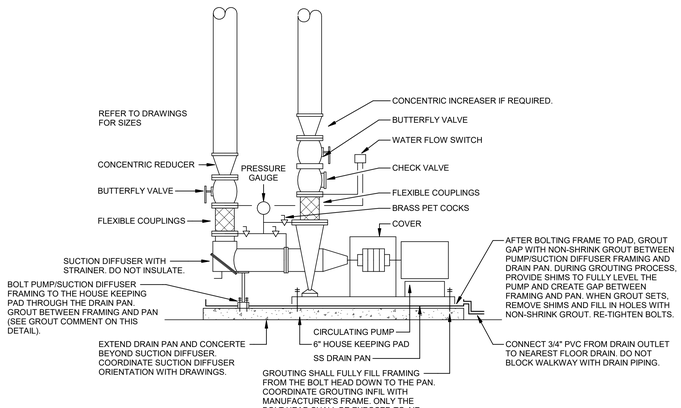
LOUVER INSTALLATION DETAIL

NTS



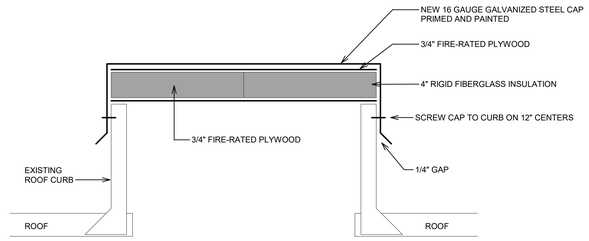
AHU P-TRAP DETAIL (DRAW-THRU COIL)

NTS



BASE MOUNT END SUCTION PUMP DETAIL

NTS



ROOF CURB CAP DETAIL

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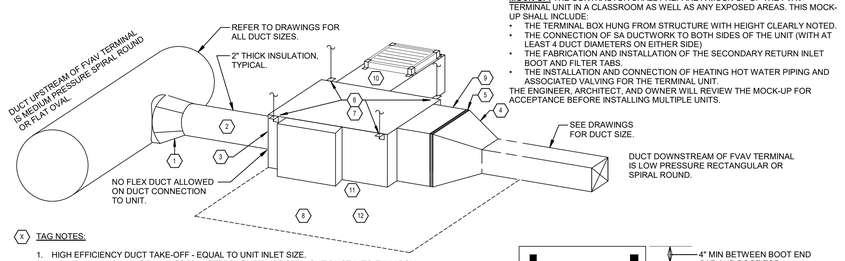


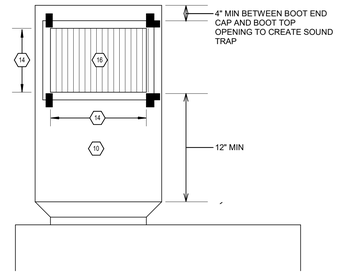
MOCK-UP: THE CONTRACTOR SHALL PREPARE A MOCK-UP OF THE FVAV TERMINAL UNIT IN A CLASSROOM AS WELL AS ANY EXPOSED AREAS. THIS MOCK-UP SHALL INCLUDE:

- THE TERMINAL BOX HUNG FROM STRUCTURE WITH HEIGHT CLEARLY NOTED.
- THE CONNECTION OF SA DUCTWORK TO BOTH SIDES OF THE UNIT (WITH AT LEAST 4 DUCT DIAMETERS ON EITHER SIDE)
- THE FABRICATION AND INSTALLATION OF THE SECONDARY RETURN INLET BOOT AND FILTER TABS.
- THE INSTALLATION AND CONNECTION OF HEATING HOT WATER PIPING AND ASSOCIATED VALVING FOR THE TERMINAL UNIT.

THE ENGINEER, ARCHITECT, AND OWNER WILL REVIEW THE MOCK-UP FOR ACCEPTANCE BEFORE INSTALLING MULTIPLE UNITS.

X TAG NOTES:

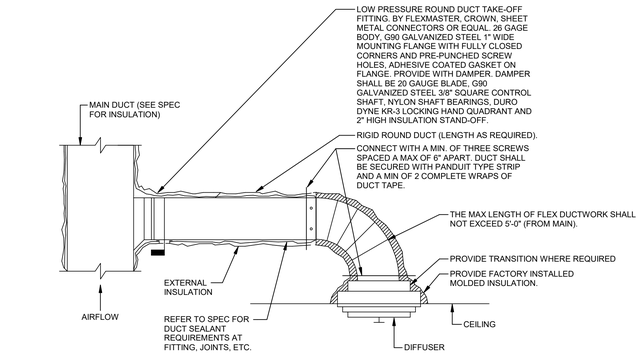
1. HIGH EFFICIENCY DUCT TAKE-OFF - EQUAL TO UNIT INLET SIZE.
2. MAINTAIN A MINIMUM OF 3 INLET DIAMETERS LENGTH OF STRAIGHT DUCT INTO FVAV BOX CONNECTION. NO FLEXIBLE DUCTWORK ALLOWED ON THE INLET SIDE OF THE UNIT; SOME LOCATIONS REQUIRE UPSIZED DUCTWORK. SEE DRAWINGS FOR LOCATIONS.
3. MAINTAIN INSULATION TO EDGE OF FVAV UNIT.
4. PROVIDE TRANSITION BETWEEN FVAV UNIT AND DUCT. MAINTAIN INSULATION TO FLEXIBLE TO EDGE OF FVAV UNIT.
5. PROVIDE FLEXIBLE CONNECTION BETWEEN FVAV UNIT AND DUCT
6. SUPPORT FVAV BOX WITH SUPPORT ON FOUR CORNERS WITH THREADED ROD HANGERS ATTACHED TO HANGER TABS. PROVIDE TWO NUTS ON THREADED CONNECTION.
7. SUPPORT UNIT FROM STRUCTURE.
8. OUTLINED AREA (AT LEAST 24" AND MORE WHERE REQUIRED BY N.E.C.) AND BOTTOM OF FVAV MUST BE CLEAR OF ANY OBJECT FOR ACCESS. DISTANCE FROM CEILING TO BOTTOM OF BOX MUST BE WITHIN 8"-12" OFFSET DUCT TAPS FROM MAINS AS REQUIRED.
9. ELECTRIC HEATING COIL. MAINTAIN CLEARANCE
10. FABRICATE AND INSTALL SHEET METAL SECONDARY INLET BOOT. INTERNALLY INSULATE WITH 1" OF ACOUSTICAL LINER.
11. DO NOT ROUTE ANY PIPING, CONDUIT, ETC... BELOW FVAV BOX. ACCESS TO FAN IS FROM BELOW. DO NOT INSTALL BOX OVER LIGHT UNLESS ABSOLUTELY NECESSARY (SMALL ROOMS SUCH AS OFFICES ONLY).
12. MAINTAIN WORKING CLEARANCE ON SIDE OF CONTROL MODULE.
13. RETURN OPENING IN BOOT SHALL BE CUT IN THE TOP OF THE BOOT.
14. DIMENSIONS OF RETURN OPENING SHALL BE SAME SIZE AS THE DIMENSIONS OF THE SECONDARY RETURN INLET OF THE TERMINAL UNIT. OPENING IS DESIGNED TO USE THE SAME FILTER THAT COMES WITH THE TERMINAL UNIT.
15. FURNISH AND INSTALL TABS TO HOLD FILTER IN PLACE. COORDINATE DIMENSIONS AND LOCATION OF TABS WITH PROVIDED FILTER THICKNESS AND CARDBORD FRAME OVERLAP.
16. FVAV TERMINAL UNIT SECONDAR RETURN AIR INLET THROWAWAY FILTER.
17. FIELD FABRICATE BOOT TRANSITION TO PROVIDE ENOUGH WIDH IN THE BOOT TO INSTALL THE FILTER TABS AS SHOWN TO LOCATE FILTER ON TOP OF THE INLET BOOT. HEIGHT OF BOOT WILL BE THE SAME AS THE HEIGHT OF THE RETURN INLET.



SECONDARY RETURN INLET BOOT AND FILTRATION DETAIL

TYPICAL FVAV BOX TERMINAL UNIT INSTALLATION

NTS



TYPICAL ROUND SUPPLY, RETURN, AND EXHAUST BRANCH DUCT DETAIL

NTS

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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STATE OF TEXAS · RICHARD LOPEZ · 105316 · LICENSED PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M4.00

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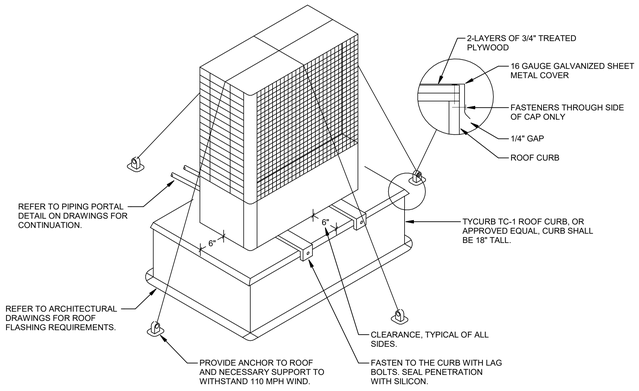
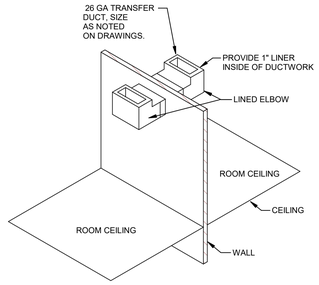


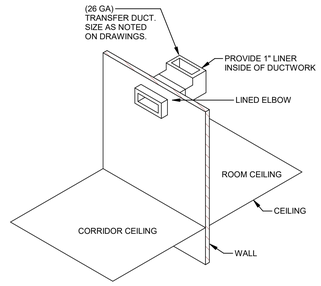
ROOF MOUNTED CONDENSING UNIT DETAIL

NTS



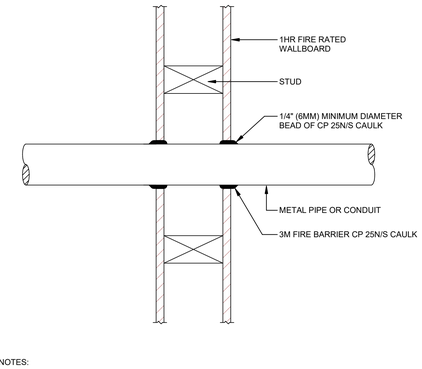
TRANSFER AIR DUCT ABOVE ROOM - ROOM

NTS



TRANSFER AIR DUCT ABOVE CORRIDOR - ROOM

NTS



NOTES:

1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.

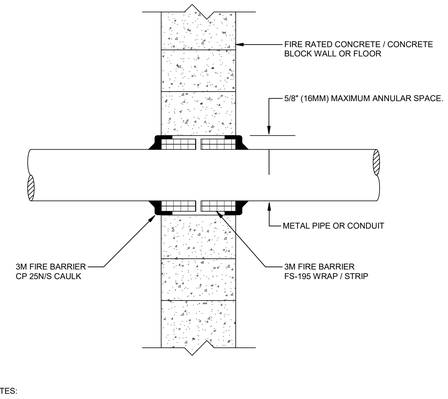
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.

3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).

4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE / CONDUIT THROUGH A DRY WALL 1HR WALL

NTS



NOTES:

1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).

2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.

3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILM OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE / CONDUIT THROUGH A CONCRETE OR MASONRY WALL

NTS

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M4.10

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System			Room	Az	Pz	Rp	Ra	Rp*Pz_MAX	Ra*Az	Vbz_MAX	Ez	Voz_MAX	
UNIT	SPECIFIC AREA UNIT IS SERVING	SPECIFIC ROOM CATEGORY	Name of Room	Room Area	Room Pop.	Outdoor airflow rate required per person	Outdoor airflow rate required per unit area	Rp*Pz MAX	Ra*Az	Vbz_MAX	Zone air Distribtion Effectiveness	37 PPL Zone Outdoor Airflow_MAX	ROUNDED UP TO NEAREST 5
AHU-BAND	ADDITION	Office space	407 Office	175	1	5	0.06	5	10.5	15.5	0.8	19.375	20
AHU-BAND	ADDITION	Occupiable Storage (dry)	406 Storage	145	0	5	0.12	0	17.4	17.4	0.8	21.75	25
AHU-BAND	ADDITION	Classrooms (age 9 plus)	419 Drama Classroom	940	26	10	0.06	260	56.4	316.4	0.8	395.5	400
AHU-BAND	ADDITION	Music/theater/dance	433 Black Box	2010	70	10	0.06	700	120.6	820.6	0.8	1025.75	1030
AHU-BAND	ADDITION	Corridors	Hallway	585	0	0	0.06	0	35.1	35.1	0.8	43.875	45
AHU-BAND	ADDITION	Occupiable Storage (dry)	427 Uniform Storage	200	0	5	0.12	0	24	24	0.8	30	30
AHU-BAND	ADDITION	Music/theater/dance	408 Orchestra Hall	1655	50	10	0.06	500	99.3	599.3	0.8	749.125	750
AHU-BAND	ADDITION	Occupiable Storage (dry)	417 Instrument Storage	202	0	5	0.12	0	24.24	24.24	0.8	30.3	35
AHU-BAND	ADDITION	Office space	418 Harp Room	148	3	10	0.06	30	8.88	38.88	0.8	48.6	50
AHU-BAND	ADDITION	Office space	412 Office & library	297	1	5	0.06	5	17.82	22.82	0.8	28.525	30
AHU-BAND	ADDITION	Music/theater/dance	422 Shared ensemble	782	27	10	0.06	270	46.92	316.92	0.8	396.15	400
AHU-BAND	ADDITION	Music/theater/dance	416 choir	1535	50	10	0.06	500	92.1	592.1	0.8	740.125	745
AHU-BAND	ADDITION	Office space	424 Office & Library	301	2	5	0.06	10	18.06	28.06	0.8	35.075	40
AHU-BAND	ADDITION	Occupiable Storage (dry)	410 Storage	200	0	5	0.12	0	24	24	0.8	30	30
													3630

System			Room	Az	Pz	Rp	Ra	Rp*Pz_MAX	Ra*Az	Vbz_MAX	Ez	Voz_MAX	
UNIT	SPECIFIC AREA UNIT IS SERVING	SPECIFIC ROOM CATEGORY	Name of Room	Room Area	Room Pop.	Outdoor airflow rate required per person	Outdoor airflow rate required per unit area	Rp*Pz MAX	Ra*Az	Vbz_MAX	Zone air Distribtion Effectiveness	37 PPL Zone Outdoor Airflow_MAX	ROUNDED UP TO NEAREST 5
RTU-1	Ensemble B111	Music/theater/dance	Ensemble B111	1243	30	10	0.06	300	74.58	374.58	0.8	468.225	470

FAN SCHEDULE

MARK	MFG	MODEL	FAN TYPE	AREA SERVED	DESIGN CFM	EA TSP/ESP (IN WG)	FAN SONES	ELECTRICAL MOTOR HP	MOTOR BHP	ELECTRICAL VOLT/PH/HZ	UNIT WEIGHT (LBS)	REMARKS
EF-1	GREENHECK	CSP-A390-VG	DIRECT DRIVE CABINET EXHAUST FAN	SCENE SHOP C119	250	--/0.2	0.9	--	0.04	115/60/1	24	ALL
EF-2	GREENHECK	CUE-160-VG	DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	NEW ART CLASSROOMS	2190	--/0.25	10.2	1/2	0.26	115/60/1	93	ALL
IF-1	GREENHECK	SQ-18-M2	DIRECT DRIVE INLINE FAN	FIELD HOUSE MECHANICAL ROOM	8080	-/0.1	11.5	2	1.73	230/1/60	185	2-5
SF-1	GREENHECK	RCS3-24-310-VG	HOODED PROPELLER DIRECT DRIVE ROOF SUPPLY FAN	OA INTAKE FOR AHU-BAND	3630	--/0.3	25	1	0.41	115/60/1	321	ALL

REMARKS:
1. PROVIDE WITH FACTORY ROOF CURB. VERIFY ROOF PITCHEN AND INSULATION DEPTH PRIOR TO ORDERING.
2. PROVIDE WITH AUTOMATIC BACKDRAFT DAMPER
3. PROVIDE FAN WITH INTEGRAL DISCONNECT.
4. PROVIDE FAN WITH SOLID STATE SPEED CONTROLLER (MANUAL ADJUSTMENT ONLY)
5. FAN SHALL BE CONTROLLED ON/OFF BY BAS VIA BAS DEFINED SCHEDULE.

LOUVER SCHEDULES

MARK	MFG	MODEL	CFM	AREA SERVED	CONSTRUCTION	DEPTH (INCH)	PHYSICAL SIZE (WxH INCH)	ACCESSORIES		
								COLOR	FINISH	DRAINABLE BLADE
L-1	GREENHECK	EVH-501	250	EF-1 EA	EXTRUDED ALUMINUM WIND-DRIVEN RAIN HURRICANE LOUVER	5	24X12	BY ARCH	BY ARCH	Yes
L-CP-1	GREENHECK	EVH-501D	NA	CENTRAL PLANT ACCESS	EXTRUDED ALUMINUM WIND-DRIVEN RAIN HURRICANE LOUVER	5	72X108	BY ARCH	BY ARCH	Yes
L-CP-2	GREENHECK	EVH-501D	NA	CENTRAL PLANT ACCESS	EXTRUDED ALUMINUM WIND-DRIVEN RAIN HURRICANE LOUVER	5	72X108	BY ARCH	BY ARCH	Yes

REMARKS:
1. PROVIDE WITH BIRD SCREEN
2. COLOR AND FINISH TO BE SELECTED BY ARCHITECT. REFER TO ARCH PLANS.
3. COORDINATE LOCATIONS WITH ARCHITECTURE ELEVATIONS.
4. LOUVERS MUST BE AMCA 540 LEVEL D AND AMCA 550 CLASS A RATED.

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

MARK	MFG	MODEL	TYPE	PANEL SIZE (INCH)	GRILLE SIZE (INCH)	INLET DUCT SIZE (INCH)	CFM RANGE	REMARKS
E-1	PRICE	80	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	12"X14"	601-800	1,4
E-2	PRICE	630	EXTRUDED ALUMINUM SIDEWALL GRILLE	12"X12"	10"X10"	32"X30"	150-250	1,2,4
R-1	PRICE	80	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	6"Ø	--	1,4
R-3	PRICE	80	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	10"Ø	--	1,4
R-4	PRICE	80	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	12"Ø	--	1,4
R-5	PRICE	630	ALUMINUM 3/4" BLADE SPACING, 45° FIXED DEFLECTION	26"X16"	28"X18"	28"X18"	--	2,5
S-1	PRICE	AMD	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	6"X6"	6"Ø	0-100	1,4
S-2	PRICE	AMD	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	9"X9"	8"Ø	101-225	1,4
S-3	PRICE	AMD	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	24"X24"	10"Ø	226-375	1,4
S-4	PRICE	AMD	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	12"X12"	12"Ø	376-600	1,4
S-5	PRICE	SDG	ALUMINUM SPIRAL DUCT GRILLE	12"X10"	10"X8"	10"X8"	200-300	2,3,5

REMARKS:
1. CEILING T-BAR MOUNTED IN 24"X24" ALUMINUM PANEL, UNLESS MARKED OTHERWISE. REFER TO GENERAL NOTES FOR SPECIAL MARK CALLOUTS.
2. SIDEWALL OR DUCT MOUNTED.
3. INLET TRANSITION BOX, ROUND TO RECTANGULAR AS INDICATED ON PLANS.
4. WHITE IN COLOR.
5. BLACK IN COLOR.

DEHUMIDIFIER SCHEDULE

MARK	MFG	MODEL	SERVICE	CFM	MOISTUTRE REMOVAL CAPACITY (LBS/HR)	UNIT WEIGHT (LBS)	ELECTRICAL FLA	ELECTRICAL VOLT/PH/HZ
DEH-1	DESERT AIRE	HPR120	B113 INSTR. STOR	400	6.8	150	15.5	115/1/60
DEH-2	DESERT AIRE	HPR120	B118 INSTR. STOR.	400	6.8	150	15.5	115/1/60
DEH-3	DESERT AIRE	HPR120	B117 UNIFORM STOR.	400	6.8	150	15.5	115/1/60
DEH-4	DESERT AIRE	HPR120	B108 UNIFORM STOR.	400	6.8	150	15.5	115/1/60
DEH-5	DESERT AIRE	HPR120	K113 INSTRUMENT STOR.	400	6.8	150	15.5	115/1/60
DEH-6	DESERT AIRE	HPR120	K113 UNIFORM STOR.	400	6.8	150	15.5	115/1/60

REMARKS:
1. PROVIDE UNIT WITH UNIT MOUNTED HUMIDISTAT, INTEGRAL CONDENSATE PUMP, WALL MOUNTING BRACKET KIT AND POWER CORD.
2. CONDENSATE MUST GRAVITY DRAIN. REFER TO INSTALLATION DETAIL.

INDOOR SPLIT SYSTEM SCHEDULE

MARK	MFG	MODEL	TYPE	AREA SERVED	AIRFLOW CFM	UNIT WEIGHT (LBS)
AC-1	DAIKIN	FTKF18AXVJU	WALL MOUNTED DUCTLESS MINISPLIT	C112 PIANO STORAGE	605	30.5
AC-2	LIEBERT	DME020E	WALL MOUNTED DUCTLESS MINISPLIT	C4 IDF	825	150

OUTDOOR SPLIT SYSTEM CONDENSER SCHEDULE

MARK	MFG	MODEL	COOL/HEAT MBH	EER	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT/PH/HZ	UNIT WEIGHT (LBS)
CU-1	DAIKIN	RKF18AXVJU	18/-	12	14.23	20	208/1/60	101
CU-2	LIEBERT	PFH020AL	17.4/0	13	23.8	25	208/1/60	200

REMARKS:
1. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION. POWER TO INDOOR UNIT SHALL COME FROM OUTDOOR UNIT. IF MECHANICAL CONTRACTOR SELECTS OTHER MANUFACTURER, MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT AND NECESSARY WIRING FOR INDOOR UNIT.
2. NO CONDENSATE PUMP SHALL BE USED FOR AC-2. DRAIN MUST ALL BE GRAVITY DRAINED.
3. PROVIDE CONDENSATE PUMP FOR AC-1, NOT AC-2.
4. PROVIDE INDOOR UNIT WITH FACTORY WALL MOUNTING HARDWARE, INSTALL PER MANUFACTURERS CLEARANCE RECOMMENDATIONS.
5. TEMPERATURE SENSOR FOR SPLIT SYSTEM SHALL BE REMOTE WALL MOUNTED WITH NO LOCAL CONTROLS. ALL SETPOINTS / OCCUPANCY CONTROLS SHALL BE THROUGH THE BAS.
6. ALL ROOF MOUNTED EQUIPMENT SHALL BE ANCHORED TO ROOF TO WITHSTAND 143 MPH, RISK CATEGORY III, EXPOSURE C WIND.

ELECTRIC DUCT HEATER SCHEDULE

MARK	MFG	MODEL	CONFIG	AREA SERVED	LOCATION	SUPPLY AIR (CFM)	ELECTRIC COIL TMBH	ELECTRIC COIL EAT (°F)	ELECTRIC COIL LAT (°F)	ELECTRIC COIL KW	ELECTRICAL VOLT/PH/HZ	DUCT SIZE (L"XW")
DH-BAND-1	GREENHECK	IDHE	DUCT MOUNTED	AHU-BAND OA INTAKE	NEW BAND ADDITION - MECH C3	3630	50.97	27	40	15	460/3/60	24x24
DH-FH-1	GREENHECK	IDHE	DUCT MOUNTED	AHU-FH-1 SA DISCHARGE	FIELD HOUSE MECH ROOM	3200	51.22	59	80	22	460/3/60	28x18
DH-FH-2	GREENHECK	IDHE	DUCT MOUNTED	AHU-FH-2 DISCHARGE	FIELD HOUSE MECH ROOM	4800	61.47	55	80	39	460/3/60	38x18
DH-FH-3	GREENHECK	IDHE	DUCT MOUNTED	AHU-FH-3 DISCHARGE	FIELD HOUSE MECH ROOM	4800	75.13	48	80	49	460/3/60	38x18
DH-FH-4	GREENHECK	IDHE	DUCT MOUNTED	AHU-FH-4 DISCHARGE	FIELD HOUSE MECH ROOM	4000	61.47	47	80	43	460/3/60	32x18
DH-FH-5	GREENHECK	IDHE	DUCT MOUNTED	AHU-FH-5 DISCHARGE	FIELD HOUSE MECH ROOM	3000	40.98	50	80	29	460/3/60	26x18

REMARKS:
1. PROVIDE WITH INTEGRAL DISCONNECT.
2. PROVIDE WITH SCR CONTROLLER.
3. PROVIDE WITH AIRFLOW SWITCH.
4. PROVIDE WITH CONTROL TRANSFORMER.
5. PROVIDE WITH 24VAC RELAY FOR BAS.
6. PROVIDE WITH DUCT MOUNTED TEMPERATUER SENSOR.

FVAV TERMINAL BOXES W/ ELECTRIC HEAT SCHEDULE

MARK	MFG	MODEL	TYPE	INLET DIA. (INCH)	NORMAL OPERATING CFM	MAX CFM	ELECTRIC HEAT COIL KW	ELECTRIC HEAT COIL EAT/LAT (°F)	ELECTRICAL ECM MOTOR	ELECTRICAL MOTOR HP	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	ELECTRICAL VOLT/PH/HZ	PRESSURE INDEPENDENT CONTROLS
FVAV-6	PRICE	FDC10	SERIES FAN POWERED VAV W/ ELECTRIC COIL	6	REFER TO REMARKS	400	1.6	67/80	Yes	1/4	10.1	15	277/1/60	Yes
FVAV-8	PRICE	FDC30	SERIES FAN POWERED VAV W/ ELECTRIC COIL	8	REFER TO REMARKS	700	2.9	67/80	Yes	1/2	17.7	20	277/1/60	Yes
FVAV-10	PRICE	FDC40	SERIES FAN POWERED VAV W/ ELECTRIC COIL	10	REFER TO REMARKS	1000	4.1	67/80	Yes	3/4	25.8	30	277/1/60	Yes
FVAV-12	PRICE	FDC50	SERIES FAN POWERED VAV W/ ELECTRIC COIL	12	REFER TO REMARKS	1400	7	67/80	Yes	3/4	19.3	20	460/3/60	Yes
FVAV-14	PRICE	FDC60	SERIES FAN POWERED VAV W/ ELECTRIC COIL	14	REFER TO REMARKS	1800	8	67/80	Yes	1	20	25	460/3/60	Yes

REMARKS:
1. ALL BOXES SHALL BE PROVIDED WITH SINGLE POINT ELECTRICAL CONNECTION.
2. NORMAL OPERATING CFM IS THE TOTAL CFM OF FVAV BOX SUPPLYING TO ASSOCIATED GRD(S).
3. SOUND SELECTION SHALL BE AT LISTED NORMAL OPERATING CFM, NOT MAX CFM.
4. TERMINAL BOXES SUPPLY FAN SHALL BE BALANCED TO AIRFLOW INDICATED ON PLANS.
5. CONTRACTOR SHALL ENSURE THAT REQUIRED N.E.C. WORKING CLEARANCE IS MAINTAINED WHERE INSTALLED ABOVE CEILING.
6. ELECTRICAL HEATER AND ITS FVAV PWOER SHALL BE INTERLOCKED WITH SINGLE POINT CONNECT. PROVIDE INTEGRAL DISCONNECT.
7. PROVIDE FVAV BOXES WITH SCR HEATING CONTROLS.
8. TERMINAL BOX SUPPLIER SHALL PROVIDE 24 VOLT TRANSFORMER WITH TERMINAL UNIT. ELECTRICAL CONTRACTOR TO PROVIDE WIRING FROM THE TRANSFORMER TO THE BPI DEVICE.
9. IF DISCHARGE DUCT SIZE IS NOT SHOWING ON DRAWING, ASSUME THE FOLLOWING SIZE DISCHARGE DUCT CONNECTIONS: FVAV-6: 10"X10", FVAV-8: 12"X12", FVAV-10:12"X14", FVAV-12: 14"X14", FVAV-14: 16"X16".
10. ROUND DUCT INLET SIZE SHALLMATCH INLET DIAMTER SCHEDULE. WHERE DUCT SHOWS TRANSITIONING TO LARGER DUCT UPSTREAM OF INLET, SIZE OF LARGER DUCT SHALL BE INLET DIAMETER +2" UNLESS NOTED OTHERWISE ON DRAWINGS.

WATER COOLED CHILLER SCHEDULE

MARK	GENERAL MFG	GENERAL MODEL	GENERAL TYPE	GENERAL REFRIGERANT	EFFICIENCIES EER	EFFICIENCIES IPLV/NPLV	TOTAL COOLING CAPACITY (TONS) / INPUT POWER (KW)	EVAPORATOR EWT/LWT (°F)	EVAPORATOR GPM/WPD	EVAPORATOR FOULING FACTOR	CONDENSER EWT/LWT	CONDENSER GPM/WPD	CONDENSER FOULING FACTOR	NEOPRENE ISOLATORS	UL LISTED	CONTROL POWER TRANSFORMER	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT/PH/HZ
CH-1	CARRIER	23XRV	WATER COOLED SCREW CHILLER	R-513A	20.32	0.3683/0.3853	225/132.9	51.98/42.00	540/15.1	0.0001	94.32/85.00	675/12.4	0.000250	Yes	Yes	Yes	236	400	460/3/60
CH-2	CARRIER	23XRV	WATER COOLED SCREW CHILLER	R-513A	20.32	0.3683/0.3853	225/132.9	51.98/42.00	540/15.1	0.0001	94.32/85.00	675/12.4	0.000250	Yes	Yes	Yes	236	400	460/3/60

REMARKS:
1. PROVIDE WITH HARMONIC FILTRATION. HARMONIC FILTER SHALL BE CERTIFIED MEETING IEEE 519 REQUIREMENTS.
2. PROVIDE WITH CONTROL POWER TRANSFORMER AND NEOPRENE VIBRATION PADS.
3. PROVIDE WITH UNIT MOUNTED VARIABLE FREQUENCY DRIVE.
4. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
5. MANUFACTURER SHALL SUBMIT CHILLER SELECTION TO ENGINEER FOR APPROVAL PRIOR TO BIDDING CHILLER.
6. CHILLER SHALL BE PROVIDED WITH A REFRIGERANT MOINITORING SYSTEM.
7. REFER TO CHILLER SPECIFICATION FOR ADDITIONAL WARRANTIES AND MAITENANCE REQUIREMENTS.

ROOF TOP UNIT SCHEDULE - DX COIL

MARK	MFG	MODEL	AREA SERVED	LOCATION	SUPPLY AIR (CFM)	OUTDOOR AIR (CFM)	COOLING COIL TMBH/SMBH	COOLING COIL EAT (DB/WB) (°F)	COOLING COIL LAT (DB/WB) (°F)	COOLING COIL IEER	COOLING COIL REFRIGERANT	ELECTRIC HEATING COIL TMBH	ELECTRIC HEATING COIL EAT (DB) (°F)	ELECTRIC HEATING COIL LAT (DB) (°F)	ELECTRIC HEATING COIL KW	HOT GAS REHEAT HEATING CAPACITY (TMBH)	HOT GAS REHEAT REHEAT LAT (DB/WB) (°F)	ELECTRICAL MOTOR HP	ELECTRICAL MOTOR BHP	ELECTRICAL FLA (AMPS)	ELECTRICAL MCA	ELECTRICAL SCCR (kAIC)	ELECTRICAL VOLT/PH/HZ	VFD	UNIT SIZE (LxWxH INCH)	UNIT WEIGHT (LBS)
RTU-1	DAIKEN	DPSC10B	NEW ENSEMBLE ROOM	B111 ENSEMBLE ROOF	2560	470	117/77	79.1/66.5	50.3/50.3	19.8	R-32	122.8	47	91.2	16	54.84	70.0/58.1	3.0	0.89	47.8	59.7	10	460/3/60	No	101.6X73.4X85.9	1893

REMARKS:
1. PROVIDE UNITS WITH WITH 2 INCH FILTER RACK.
2. PROVIDE ALL UNITS WITH MERV 8 FILTERS. SELECTION SHALL BE BASED ON DIRTY FILTER STATIC PRESSURE 0.5" WG FOR MERV 8.
3. ALL UNITS TO BE PROVIDE WITH DIRECT DRIVE PLENUM FANS, THE MAXIMUM FAN HP SHALL BE AS INDICATED IN SCHEDULE.
4. PROVIDE BLANK OFF PLATE ON MULTIPLE MOTOR UNITS.
5. PROVIDE ALL UNITS WITH WALL MOUNTED VFD(S). VFD ID NUMBER SHALL MATCH WITH AHU NUMBER. IT IS MANUFACTURERS RESPONSIBILITY TO COORDINATE LOCATION OF VFD WITH MECHANICAL PLANS.
6. ALL UNIT MOTOR(S) SHALL BE FACTORY WIRED TO AN EXTERNAL UNIT MOUNTED MOTOR OVERLOAD PROTECTION PANEL. THIS PANEL CONTAINS ALL MOTOR OVERLOAD AND TERMINAL BLOCK FOR CONNECTION BY DIVISION 26 CONTRACTOR.
7. TOTAL STATIC PRESSURE OF THE SUPPLY FAN SHALL INCLUDE THE FOLLOWING: (A) THE LISTED ESP ON THE ABOVE SCHEDULE, (B) DIRTY FILTER ALLOWANCE FOR PRE FILTER AND ACTUAL PRESSURE DROPS OF UNIT CONFIGURATIONS (COILS, AIR BLENDER, ETC...).
8. COORDIANTE FACTORY AND FIELD CUT OPENINGS IN ALL OF THE SUPPLY AIR FAN SECTIONS.
9. PROVIDE ROOF CURB ADAPTOR TO FIT EXISTING ROOF CURB. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO PURCHASE.
10. SMOKE DETECTORS TO BE FURNISHED AND INSTALL IN THE SUPPLY AND RETURN AIR DUCT PLENUMS AND INTERLOCKED WITH AIR HANDLER FAN ON ALL AIR HANDLERS GREATER THAN 2000 CFM. SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 CFM OR LESS CAPACITY.
11. BASIS OF DESIGN FOR AHU(S) IS DAIKEN. IF A DIFFERENT MANUFACTURER IS SELECTED, ANY CHANGES TO UNIT DIMENSIONS AND WEIGHT MUST BE COORDINATED BY THE MECHANICAL CONTRACTOR AND VENDOR TO FIT IN THE SPACES PROVIDED.
12. SPACE IS LIMITED, CONTRACTOR IS RESPONSIBLE FOR VERIFYING UNIT SELECTED WILL FIT IN THE SPACE DESIGNATED WITH ALL REQUIRED CLEARANCES TO STRUCTURE AND OTHER EQUIPMENT, AS WELL AS THE ABILITY TO BE DELIVERED IN SECTIONS THROUGH AVAILABLE ACCESS DOORS.

AIR HANDLING UNIT SCHEDULE - CHILLED WATER COIL

MARK	MFG	MODEL	CONFIGURATION	AREA SERVED	LOCATION	SUPPLY AIR (CFM)	OUTDOOR AIR (CFM)	CHILLED WATER COOLING COIL TMBH/SMBH	CHILLED WATER COOLING COIL EAT (DB/WB) (°F)	CHILLED WATER COOLING COIL LAT (DB/WB) (°F)	CHILLED WATER COOLING COIL EWT/LWT (°F)	CHILLED WATER COOLING COIL FACE VELOCITY/MAX APD (INCH)	CHILLED WATER COOLING COIL GPM/MAX PD (FT)	FILTERS FILTER TYP	FILTERS FILTER EFF	FILTERS FILTER RESISTANCE (CLEAN/DIRTY")	ELECTRICAL # OF FANS	ELECTRICAL MOTOR HP	ELECTRICAL MOTOR BHP	ELECTRICAL FLA (AMPS)	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT/PH/HZ	VFD	UNIT SIZE (LxWxH INCH)	UNIT WEIGHT (LBS)
AHU-BAND	DAIKEN	CAH019GDGM	INLINE HORIZTONAL	NEW BAND ADDITION	MECH C3	8350	3630	449/276	84.7/70.8	54.4/54.1	42/58.1	470/0.76	55.9/10	PLEATED	MERV 8	0.17/1.00	1	15	8.8	18.10			460/3/60	Yes	98x84x46	2487

REMARKS:
1. PROVIDE UNITS WITH WITH 2 INCH FILTER RACK.
2. PROVIDE ALL UNITS WITH MERV 8 FILTERS. SELECTION SHALL BE BASED ON DIRTY FILTER STATIC PRESSURE 0.5" WG FOR MERV 8.
3. ALL UNITS TO BE PROVIDE WITH DIRECT DRIVE PLENUM FANS, THE MAXIMUM FAN HP SHALL BE AS INDICATED IN SCHEDULE.
4. PROVIDE BLANK OFF PLATE ON MULTIPLE MOTOR UNITS.
5. PROVIDE ALL UNITS WITH WALL MOUNTED VFD(S). VFD ID NUMBER SHALL MATCH WITH AHU NUMBER. IT IS MANUFACTURERS RESPONSIBILITY TO COORDINATE LOCATION OF VFD WITH MECHANICAL PLANS.
6. ALL UNIT MOTOR(S) SHALL BE FACTORY WIRED TO AN EXTERNAL UNIT MOUNTED MOTOR OVERLOAD PROTECTION PANEL. THIS PANEL CONTAINS ALL MOTOR OVERLOAD AND TERMINAL BLOCK FOR CONNECTION BY DIVISION 26 CONTRACTOR.
7. TOTAL STATIC PRESSURE OF THE SUPPLY FAN SHALL INCLUDE THE FOLLOWING: (A) THE LISTED ESP ON THE ABOVE SCHEDULE, (B) DIRTY FILTER ALLOWANCE FOR PRE FILTER AND ACTUAL PRESSURE DROPS OF UNIT CONFIGURATIONS (COILS, AIR BLENDER, ETC...).
8. COORDIANTE FACTORY AND FIELD CUT OPENINGS IN ALL OF THE SUPPLY AIR FAN SECTIONS.
9. PROVIDE 6 INCH HOUSE KEEPING PAD THAT EXTENDS 6 INCHES FROM ALL UNIT SIDES. COORDIANTE WITH MECHANICAL PLANS FOR UNITS WITH 4 INCH HOUSE KEEPING PAD.
10. SMOKE DETECTORS TO BE FURNISHED AND INSTALL IN THE SUPPLY AND RETURN AIR DUCT PLENUMS AND INTERLOCKED WITH AIR HANDLER FAN ON ALL AIR HANDLERS GREATER THAN 2000 CFM. SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 CFM OR LESS CAPACITY.
11. BASIS OF DESIGN FOR AHU(S) IS DAIKEN. IF A DIFFERENT MANUFACTURER IS SELECTED, ANY CHANGES TO UNIT DIMENSIONS AND WEIGHT MUST BE COORDINATED BY THE MECHANICAL CONTRACTOR AND VENDOR TO FIT IN THE SPACES PROVIDED.
12. SPACE IS LIMITED, CONTRACTOR IS RESPONSIBLE FOR VERIFYING UNIT SELECTED WILL FIT IN THE SPACE DESIGNATED WITH ALL REQUIRED CLEARANCES TO STRUCTURE AND OTHER EQUIPMENT, AS WELL AS THE ABILITY TO BE DELIVERED IN SECTIONS THROUGH AVAILABLE ACCESS DOORS.

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STATE OF TEXAS — RICHARD LOPEZ — 96436 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
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FORT BEND INDEPENDENT SCHOOL DISTRICT — BOND 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M5.00

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FINE ARTS CHW PLANT - PUMP SCHEDULE

MARK	MFG	MODEL	TYPE	AREA SERVED	GPM	FOH	ELECTRICAL				IMPELLER DIA. (INCH)	PUMP EFF	ISOLATION VALVES?	SUCTION DIFFUSER
							MOTOR HP	BHP	VFD	VOLT/PH/HZ				
CHWP-3	GRUNDFOS	NBS 020-095-4P	BASEMOUNTED END SUCTION	ACCH-2	200	65	7.5	4.31	Yes	480/3/60	8.35	76.1	YES	YES

REMARKS:
1. FURNISH AND INSTALL REMOTE MOUNTED MOUNTED IN EXTERIOR-RATED NEMA 3R ENCLOSURE FOR ALL PUMPS.
2. FURNISH AND INSTALL PUMPS ON 6" TALL HOUSEKEEPING PAD.

FINE ARTS CHW PLANT - PUMP SCHEDULE - ALTERNATE

MARK	MFG	MODEL	TYPE	AREA SERVED	GPM	FOH	ELECTRICAL				IMPELLER DIA. (INCH)	PUMP EFF	ISOLATION VALVES ?	SUCTION DIFFUSER
							MOTOR HP	BHP	VFD	VOLT/PH/HZ				
CHWP-3ALT	GRUNDFOS	NBS 015-090-4P	BASEMOUNTED END SUCTION	ACCH-1ALT	85.5	65	3	2.3	Yes	480/3/60	8.15	61.2	YES	YES
CHWP-4ALT	GRUNDFOS	NBS 015-090-4P	BASEMOUNTED END SUCTION	ACCH-2ALT	85.5	65	3	2.3	Yes	480/3/60	8.15	61.2	YES	YES

REMARKS:
1. FURNISH AND INSTALL REMOTE MOUNTED MOUNTED IN EXTERIOR-RATED NEMA 3R ENCLOSURE FOR ALL PUMPS.
2. FURNISH AND INSTALL PUMPS ON 6" TALL HOUSEKEEPING PAD.

FINE ARTS CHW PLANT - AIR COOLED CHILLER SCHEDULE - ALTERNATE 4

MARK	GENERAL				EFFICIENCIES		TOTAL COOLING CAPACITY (TONS) / INPUT POWER (KW)	EWT/LWT (°F)	GPM/WPD	MIN/MAX FLOW RATE (GPM)	AMBIENT TEMP (°F)	SOUND POWER LEVELS FULL	ELECTRICAL		
	MFG	MODEL	TYPE	REFRIGERANT	EER	IPLV							MCA	MOCP	VOLT/PH/HZ
ACCH-4	DAIKEN	AGZ008F	AIR-COOLED SCROLL COMPRESSOR CHILLER	R32	8.801	16.79	133/181.5	58/42	199.1/4.2	192/528	105	94	352	400	460/3/60

REMARKS:
1. CONTRACTOR SHALL COORDINATE CHOSEN CHILLERS' DIMENSIONS WITH EXISTING AND PROPOSED EXPANDED CENTRAL PLANT.
2. IF A STRAINER IS REQUIRED FOR WARRANTY PURPOSES ON THE CHILLER INLET, THE CONTRACTOR SHALL PROVIDE THE COST FOR PROVISION AND INSTALLATION OF THE STRAINER AS PART OF THE CONTRACT.
3. CHILLERS SHALL BE LOCATED ON A 6" TALL HOUSEKEEPING PAD THAT EXTENDS 6" PAST THE CHILLER ON ALL SIDES.
4. PROVIDE CHILLER WITH EMERGENCY FREEZE-PROOF HEATERS AND COORDINATE ELECTRICAL PROVISION WITH THE CONTRACTOR.
5. CHIILLERS SHALL BE SINGLE POINT POWER.
6. PROVIDE SCCR = 65 KAIC.
7. PROVIDE WITH FACTORY DISCONNECT.
8. PROVIDE WITH CONDENSER COIL LOUVERS AND BASE FRAME GRILLES.
9. PROVIDE WITH 120V GFCI OUTLET.
10. PROVIDE WITH BAS COMMUNICATION CARD AND LCD DISPLAY.
11. PROVIDE ELECTROFIN COATED CONDENSER COILS
12. PROVIDE LIQUID, DISCHARGE, AND SUCTION SHUT-OFF VALVES.
13. PROVIDE PHASE AND UNDER/OVER VOLTAGE PROTECTION WITH LED.

FINE ARTS CHW PLANT - AIR COOLED CHILLER SCHEDULE - ALTERNATE 5

MARK	GENERAL				EFFICIENCIES		TOTAL COOLING CAPACITY (TONS) / INPUT POWER (KW)	EWT/LWT (°F)	GPM/WPD	MIN/MAX FLOW RATE (GPM)	AMBIENT TEMP (°F)	SOUND POWER LEVELS FULL	ELECTRICAL		
	MFG	MODEL	TYPE	REFRIGERANT	EER	IPLV							MCA	MOCP	VOLT/PH/HZ
ACCH-3ALT	DAIKEN	AGZ006F	AIR-COOLED SCROLL COMPRESSOR CHILLER	R32	9.213	17.23	85.5/111.5	58/42	128/4.6	108/360	105	91	232	300	460/3/60
ACCH-4ALT	DAIKEN	AGZ006F	AIR-COOLED SCROLL COMPRESSOR CHILLER	R32	9.213	17.23	85.5/111.5	58/42	128/4.6	108/360	105	91	232	300	460/3/60

REMARKS:
1. CONTRACTOR SHALL COORDINATE CHOSEN CHILLERS' DIMENSIONS WITH EXISTING AND PROPOSED EXPANDED CENTRAL PLANT.
2. IF A STRAINER IS REQUIRED FOR WARRANTY PURPOSES ON THE CHILLER INLET, THE CONTRACTOR SHALL PROVIDE THE COST FOR PROVISION AND INSTALLATION OF THE STRAINER AS PART OF THE CONTRACT.
3. CHILLERS SHALL BE LOCATED ON A 6" TALL HOUSEKEEPING PAD THAT EXTENDS 6" PAST THE CHILLER ON ALL SIDES.
4. PROVIDE CHILLER WITH EMERGENCY FREEZE-PROOF HEATERS AND COORDINATE ELECTRICAL PROVISION WITH THE CONTRACTOR.
5. CHIILLERS SHALL BE SINGLE POINT POWER.
6. PROVIDE SCCR = 65 KAIC.
7. PROVIDE WITH FACTORY DISCONNECT.
8. PROVIDE WITH CONDENSER COIL LOUVERS AND BASE FRAME GRILLES.
9. PROVIDE WITH 120V GFCI OUTLET.
10. PROVIDE WITH BAS COMMUNICATION CARD AND LCD DISPLAY.
11. PROVIDE ELECTROFIN COATED CONDENSER COILS
12. PROVIDE LIQUID, DISCHARGE, AND SUCTION SHUT-OFF VALVES.
13. PROVIDE PHASE AND UNDER/OVER VOLTAGE PROTECTION WITH LED.

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CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M5.01

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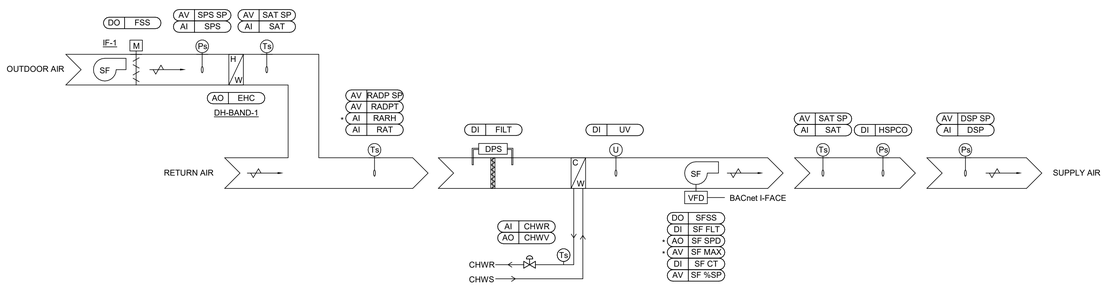
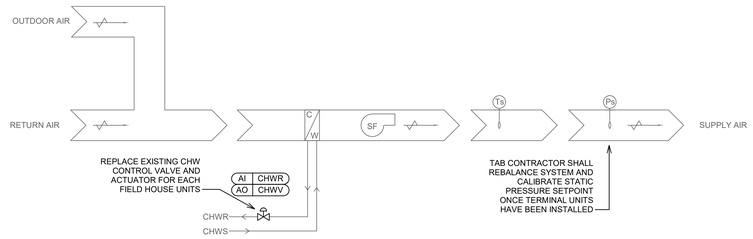
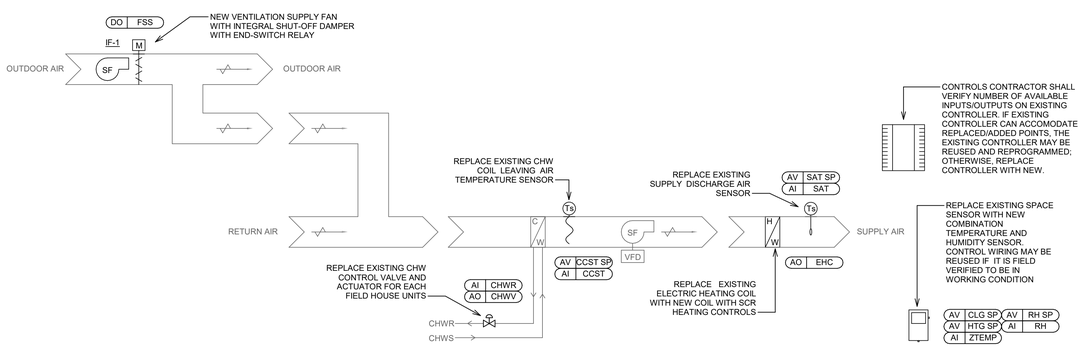


NEW VAV AIR HANDLING UNIT - FINE ARTS ADDITION



EXISTING VAV AIR HANDLING UNIT - AREA F



EXISTING FIELD HOUSE SINGLE ZONE CONSTANT VOLUME AHU'S WITH ELECTRIC REHEAT COIL

SEQUENCE OF OPERATION:

SEQUENCE OF OPERATION:

SEQUENCE OF OPERATION:

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FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL CONTROLS

SHEET NUMBER

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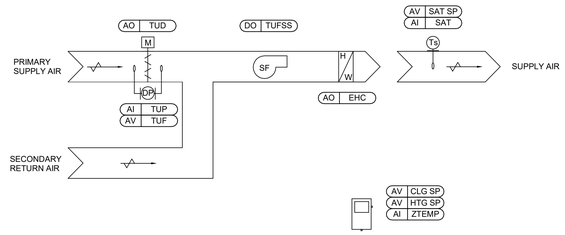
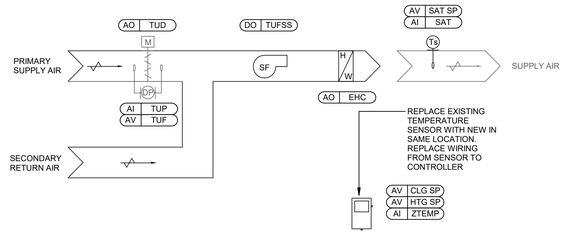


SERIES FAN POWERED TERMINAL UNIT CONTROLS - NEW FINE ARTS ADDITION



SERIES FAN POWERED TERMINAL UNIT CONTROLS - AREA F

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

MECHANICAL CONTROLS

SHEET NUMBER

M6.02

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DESCRIPTION	MOUNTING HEIGHT	DRAWING SYMBOL
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND, NEUTRAL, PHASE
JUNCTION BOX, CEILING OR WALL		J , J
DISCONNECT SWITCH	5'-0"	
MAGNETIC MOTOR STARTER	5'-0"	
COMBINATION MOTOR STARTER AND DISCONNECT SWITCH	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED CIRCUIT BREAKER	5'-0"	
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
PANELBOARD, FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	46"	DB
DOORBELL AUDIO/VISUAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OwNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		J
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		J K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE INDICATE MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPLASH, NO HIGHER THAN 48"		C
LOCAL SOUND SPEAKER AS SCHEDULED		XX
AV I/O DEVICE(S) AS SCHEDULED		XXX
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	GEN-A
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS		T
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	

ONE-LINE SYMBOLS	
MOTOR SYMBOL: A - HORSEPOWER OF MOTOR B - TAG C - AVAILABLE FAULT CURRENT (kA) D - FAULT CURRENT RATING (kAIC)	B, A, C D
VARIABLE FREQUENCY DRIVE (VFD)	
STARTER: A - NUMBER OF POLES B - AMPERAGE RATING C - CONTACTOR NEMA SIZE E - ENCLOSURE NEMA RATING	B, C, A E
STARTER/DISCONNECT: A - NUMBER OF POLES B - AMPERAGE RATING C - CONTACTOR NEMA SIZE D - FUSE RATING E - ENCLOSURE NEMA RATING	B D, C, A E
ENCLOSED CIRCUIT BREAKER: A - NUMBER OF POLES B - AMPERAGE RATING D - FUSE RATING E - ENCLOSURE NEMA RATING	B D, A E
FEEDER TAG: Y - TYPE OF WIRE 1. A = ALUMINUM WIRE 2. BLANK = COPPER X - AMPERAGE RATING OF WIRE SYSTEM W - NEUTRAL 1. N = 100% NEUTRAL 2. NN = 200% NEUTRAL Z - TYPE OF FEEDER 1. U = UNDERGROUND FEEDER 2. T = SECONDARY OF TRANSFORMER 3. S = SERVICE CONDUCTORS	YXXWZ
TRANSFORMER SYMBOL: A - TRANSFORMER TAG NAME B - SECONDARY VOLTAGE C - K RATING OF TRANSFORMER D - PRIMARY VOLTAGE E - GROUND ELECTRODE CONDUCTOR (GEC) F - KVA RATING OF TRANSFORMER	A B, E, #4, F, 45KVA, C D
THERMAL MAGNETIC CIRCUIT BREAKER xxx = SIZE OF BREAKER IN AMP	XXXA
ELECTRONIC TRIP CIRCUIT BREAKER AF = BREAKER FRAME RATING AT = BREAKER TRIP RATING	XXXAF XXXAT

DESCRIPTION	MOUNTING HEIGHT	DRAWING SYMBOL
LIGHTING CONTROLS		
LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH SET TO AUTO 'ON', AUTO 'OFF' OPERATION.	46"	$O
LINE VOLTAGE VACANCY SENSOR WALL SWITCH SET TO MANUAL 'ON', AUTO 'OFF' OPERATION.	46"	$V
LOW VOLTAGE WALL CONTROL SWITCH. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION	46"	$LV
CEILING MOUNTED VACANCY SENSOR. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.	CEILING	VS
DAYLIGHT RESPONSIVE CONTROL PHOTO CELL. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.	CEILING	PC
CEILING MOUNTED OCCUPANCY SENSOR. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.	CEILING	OS
POWER PACK: x - OCCUPANCY (O) / VACANCY (V) y - WALL (W) / CEILING (C) / HIGH BAY (H) # - SEQUENCE NUMBER REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFO.	ABV. CLG.	Pxy#
ROOM CONTROLLER: z - NUMBER OF ZONES x - OCCUPANCY (O) / VACANCY (V) y - WALL (W) / CEILING (C) / HIGH BAY (H) # - SEQUENCE NUMBER REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFO.	ABV. CLG.	zRxy#
UL924 LISTED EMERGENCY LIGHTING CONTROL RELAY SEE DETAIL.	ABV. CLG.	ER
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)	SEE PLANS	
POLE MOUNTED AREA LIGHT	SEE PLANS	
EMERGENCY BATTERY WALL-PACK	SEE PLANS	
WALL MOUNT FIXTURE	SEE PLANS	
FLOODLIGHT	SEE PLANS	
EXIT LIGHT (CEILING, END, WALL MOUNT)	SEE PLANS	
STRIP FIXTURE	SEE PLANS	
HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY SYSTEM	N/A	
POWER OUTLETS		
SIMPLEX TAMPER RESISTANT RECEPTACLE; NEMA 5-20R	1'-6"	
DUPLEX TAMPER RESISTANT RECEPTACLE; NEMA 5-20R	1'-6"	
SPLIT CONTROLLED DUPLEX WITH TOP RECEPTACLE CONTROLLED, TAMPER RESISTANT	1'-6"	PL
QUADRUPLEX TAMPER RESISTANT RECEPTACLE; NEMA 5-20R	1'-6"	
CONTROLLED QUADRUPLEX RECEPTACLE WITH (1) DUPLEX CONTROLLED, OTHER DUPLEX UNSWITCHED. TAMPER RESISTANT.	1'-6"	PL
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		
GROUND FAULT PROTECTION (GFCI) TAMPER RESISTANT RECEPTACLE	1'-6"	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION	1'-6"	
DUPLEX NEMA 5-20R RECEPTACLE WITH INTEGRAL USB OUTLETS, ALL TAMPER RESISTANT: A - 2-PORT USB DUPLEX RECEPTACLE TYPE-A B - 4-PORT USB RECEPTACLE C - 2-PORT USB DUPLEX RECEPTACLE TYPE-C	1'-6"	A,B,C
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
RECESSED RECEPTACLE	AS NOTED	R
DAMP LOCATION RECEPTACLE	AS NOTED	DL
SPECIAL RECEPTACLE, NEMA TYPE AS NOTED	AS NOTED	
PEDESTAL TYPE RECEPTACLE	AS NOTED	P
ISOLATED GROUND TYPE RECEPTACLE	AS NOTED	IG
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE DEAD FRONT GFI DEVICE AT 18" ADJACENT TO WATER COOLER		EWC
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
SPECIAL OUTLETS		
FLOOR BOX, DEVICES AS SCHEDULED. COORDINATE COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES.	FLOOR	Fx
FIRE RATED POKE THOUGH FLOOR BOX, DEVICES AS SCHEDULED. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES.	FLOOR	Px
COMBINATION ELECTRICAL AND TECHNOLOGY OUTLET, WALL MOUNTED. REFER TO KEY BELOW & SCHEDULES.	1'-6" U.O.N. SEE DETAIL	XX
COMBINATION ELECTRICAL AND TECHNOLOGY OUTLET, CEILING MOUNTED. REFER TO KEY BELOW & SCHEDULES.	CLG	XX

RENOVATION ELECTRICAL GENERAL NOTES

A. **UTILITY INTERRUPTION:**

A1. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE PLANNED AND COORDINATED TO MINIMIZE DISRUPTIONS OF OPERATIONS FOR OTHER FACILITIES SERVED BY THOSE UTILITIES. WHEN A SERVICE INTERRUPTION IS NECESSARY, IT SHALL BE SCHEDULED WITH AND AGREED UPON BY THE AFFECTED PARTIES, INCLUDING THE OWNER, ARCHITECT, GENERAL CONTRACTOR, AND UTILITY COMPANY REPRESENTATIVE(S), AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. NOTIFY UTILITY PROVIDER(S) OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.

A2. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

A3. ALL CONTRACTORS SHALL EXERCISE CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT CAUSE UNPLANNED INTERRUPTION OF ANY EXISTING SERVICE OR SUB-SERVICE, INCLUDING EXISTING UTILITES WHICH MAY PASS OVER, UNDER, OR THROUGH THE WORK SITE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES.

B. **PHASING, SEQUENCING, SCOPE:**

B1. REFER TO PHASING PLANS, BOUNDARIES, AND NOTES ON THESE DRAWINGS FOR DESIGN REQUIREMENTS PERTAINING TO PHASING AND SEQUENCING OF WORK. COORDINATE PHASING AND SEQUENCING OF WORK WITH OWNER AND DESIGN TEAM PRIOR TO AND THROUGHOUT CONSTRUCTION. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

B2. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE SCHEDULING WITH OWNER IN ADVANCE.

C. **HAZARDOUS MATERIAL NOTE:**

C1. THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL ENSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

C2. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C3. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.

C4. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

SYSTEMS RESPONSIBILTY MATRIX

	SYSTEM	ITEM USED ON PROJECT	ITEM SHOWN ON T PLANS	ITEM DELEGATED DESIGN	DEVICES - O F O I	DEVICES - O F C I	DEVICES - C F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - O F C I	CABLING/CONDUCTORS - C F C I	CONDUIT & BOXES - O F O I	CONDUIT & BOXES - C F C I	SYSTEM SYMBOL
DIV. 27 COMMUNICATION	DATA STRUCTURED CABLING	●	●							●		●	
	DATA NETWORK EQUIPMENT	●											
	DATA WIRELESS APs	●	●							●		●	WAP ELEV
	ELEVATOR COMMUNICATOR									●		●	
	INST. AV: CLASSROOMS	●	●										
	INST. AV: OTHER SPACES	●	●							●		●	
	OVERHEAD PAGING	●	●							●		●	
	CLOCKS	●	●							●		●	
DIV. 28 ELECTRONIC SAFETY & SECURITY	SECURITY: ACCESS CONTROL	●								●		●	
	SECURITY: INTRUSION ALARM	●								●		●	
	SECURITY: SURVEILLANCE	●								●		●	
	EM. RESP. RADIO ANT. SYS.	●		●						●		●	
	FIRE ALARM	●	●	●						●		●	

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
B. IF DEVICES ARE SHOWN ON T PLANS FOR DELEGATED DESIGN SYSTEMS, LOCATIONS INDICATED ARE FOR BIDDING PURPOSES ONLY. REFER TO INSTALLING CONTRACTOR'S SHOP DRAWINGS FOR FINAL QUANTITY, LOCATION, AND TYPE OF INFRASTRUCTURE REQUIRED.
C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS, TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
F. WHERE INDICATED AS CFCI, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS WHERE APPLICABLE. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE REQUIRED FOR SYSTEM FUNCTIONALITY AS DESCRIBED.
G. REFER TO SYSTEM SPECIFICATIONS FOR PROGRAMMING, START-UP, AND TRAINING REQUIREMENTS.

ELECTRICAL GENERAL NOTES

A. **CODES AND STANDARDS:**

A1. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES AS ADOPTED AND/OR AMENDED BY AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- NFPA 70 (NATIONAL ELECTRICAL CODE)
- NFPA 72 (FIRE ALARM CODE)
- NFPA 101 (LIFE SAFETY CODE)
- INTERNATIONAL BUILDING CODE(S) AND FIRE CODE(S)
- INTERNATIONAL ENERGY CONSERVATION CODE
- LOCAL ZONING CODE(S)
- WINDSTORM RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE
- SEISMIC RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE

IN CASE OF CONFLICTS OR DISCREPANCIES AMONG CODE REQUIREMENTS OR BETWEEN CODE REQUIREMENT AND THIS DESIGN, THE MOST STRINGENT SHALL APPLY.

A2. OBSERVE ALL APPLICABLE CODES, RULES, AND REGULATIONS THAT MAY APPLY TO THE PERFORMANCE OF WORK UNDER THIS CONTRACT, INCLUDING BUT NOT LIMITED TO CODES REGULATING SAFETY, WORKING CONDITIONS, NOISE RESTRICTIONS, USAGE OF PUBLIC ROADWAYS AND OTHER UTILITIES DURING CONSTRUCTION; HANDLING OF HAZARDOUS ATERIALS; AND DISPOSAL OF WASTES.

B. **MATERIALS AND WORKMANSHIP:**

B1. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

B2. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.

B3. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

B4. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

C. **COOPERATION AND COORDINATION WITH OTHER TRADES:**

C1. CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

C2. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

C3. ADDITIONAL ELECTRICAL, TECHNOLOGY, AND ELECTRONIC SAFETY & SECURITY REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C4. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.

C5. COORDINATE THE LOCATION OF ELECTRICAL OUTLETS, LUMINAIRES, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLYINSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

D. **DIMENSIONS AND MOUNTING HEIGHTS:**

D1. DO NOT SCALE FROM DRAWINGS AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

D2. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.

D3. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

D4. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE, U.O.N. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE U.O.N.

D5. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

D6. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTERPOINT ON 4' DIMENSION.

E. **PENETRATIONS AND FIRE RATING:**

E1. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

E2. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANY WAY.

E3. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

F. **QUIET OPERATION, SUPPORTS, VIBRATION AND OSCILLATION:**

F1. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

G. **MOTORS:**

G1. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER PRIOR TO PLACING IN SERVICE.

H. **DEVIATIONS, CONFLICTS, ERRORS, AND OMISSIONS:**

H1. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THE PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

H2. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST FIVE DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

H3. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCY IN WRITING.

H4. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEER AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

I. **PAINTING:**

I1. UNLESS OTHERWISE SPECIFIED OR INDICATED, OR PROHIBITED BY LISTING OR MANUFACTURER'S INSTRUCTIONS, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT THE ADJACENT SURFACE. COORDINATE WORK AND COLORS WITH ARCHITECT.

J. **KEYING:**

J1. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

ABBREVIATIONS

A	AMPERES (AMPS)
AFAI	ALLOWANCE FURNISHED, ALLOWANCE INSTALLATION
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AIC	AMPS OF INTERRUPTING CURRENT
BAS	BUILDING AUTOMATION SYSTEM
BATT	BATTERY
C	CONDUIT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CR	CORD REEL
CT	CURRENT TRANSFORMER
D	DUPLEX RECEPTACLE
DF	DEADFRONT DEVICE
DL	DAMP LOCATION LISTED
DN	DOWN
E	EMERGENCY POWER
ER	EMERGENCY RELAY
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
G	GROUND
GEN	ENGINE GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
H	HOURS
IG	ISOLATED GROUND
INV	LIGHTING INVERTER
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
NC	NORMALLY CLOSED
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PH	PHASE
PS	PHOTOCELL SENSOR
PT	POTENTIAL TRANSFORMER
Q	QUADRAPLEX RECEPTACLE
REC	RECEPTACLE
RI	ROUGH-IN
SD	SMOKE DAMPER
SPD	SURGE PROTECTION DEVICE
T	THERMOSTAT
TP	TAMPERPROOF
TS	TEMPERATURE SENSOR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VS	VACANCY SENSOR
W	WATTS
WG	WIRE GUARD
WL	WET LOCATION LISTED
WP	WEATHERPROOF
XP	EXPLOSION PROOF

Kirksey ARCHITECTURE

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Houston Texas 77024

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STATE OF TEXAS GREGORY JAMES GEHRT 90983 REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2023 BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
ELECTRICAL LEGEND

SHEET NUMBER
E0.00

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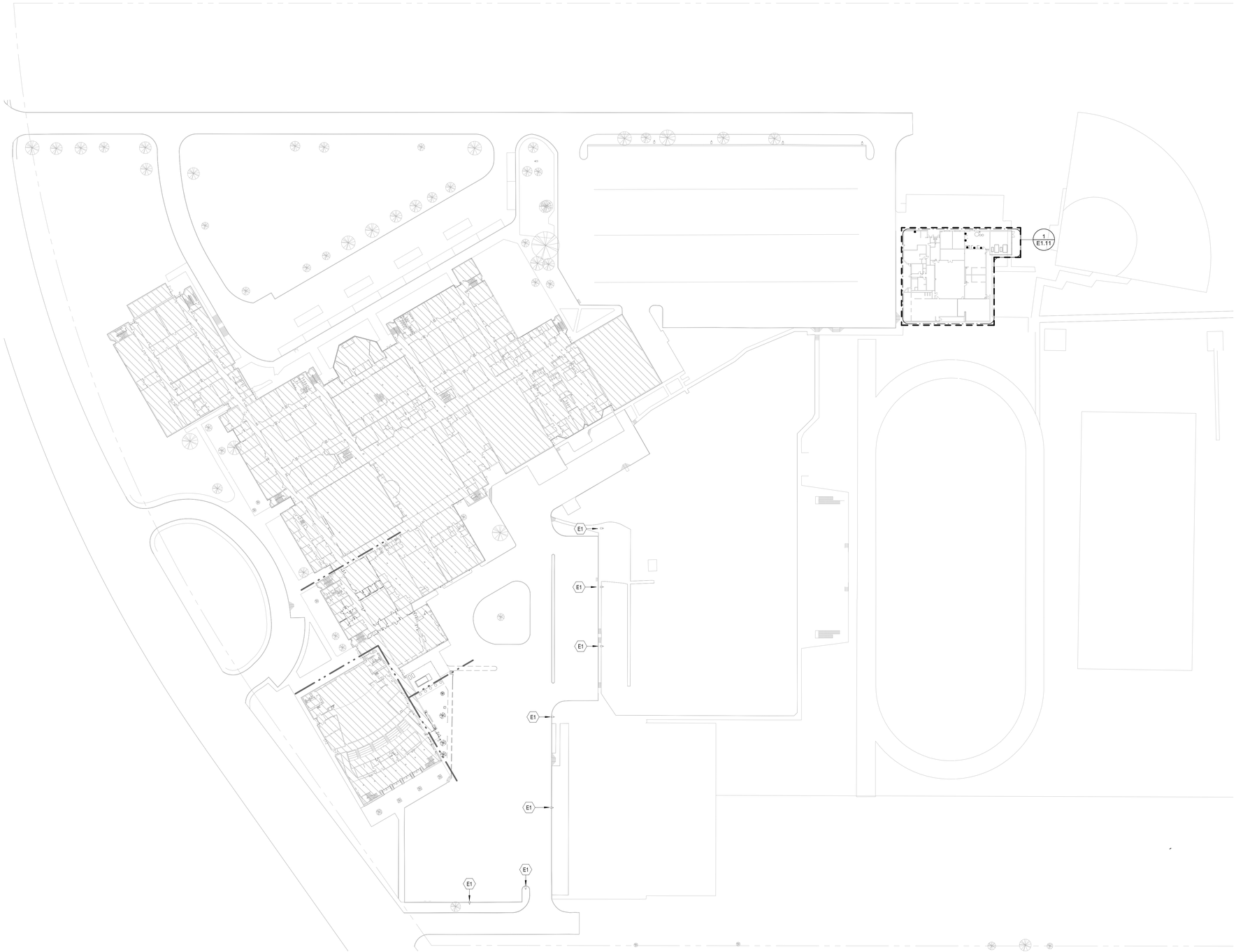
TAGGED NOTES ##

E1	EXISTING SITE LIGHT POLE SHALL REMAIN.



1 SITE DEMOLITION PLAN - ELECTRICAL
1" = 60'-0"

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STATE OF TEXAS
REGINALD JAMES EHRIT
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

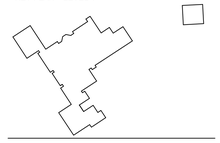
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

SITE DEMOLITION PLAN - ELECTRICAL

SHEET NUMBER

E1.10

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TAGGED NOTES	##
E2	EXISTING HEATERS TO BE REMOVED AND REPLACED. EXISTING CIRCUITS SHALL REMAIN AND BE REUSED FOR NEW HEATERS.
E41	EXISTING POWER FOR EXHAUST FAN SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING LIGHTING CIRCUIT.
E55	EXISTING PANELS AND ASSOCIATED TRANSFORMER SHALL BE REMOVED AND REPLACED. REFER TO ONE-LINE DIAGRM FOR MORE INFORMATION.
E56	EXISTING SWITCHBOARD AT FIELD HOUSE SHALL BE REMOVED AND REPLACED. REFER TO ONE-LINE DIAGRAM ON SHEET E5.01 FOR MORE INFORMATION.

1 ENLARGED SITE DEMOLITION PLAN - FIELD HOUSE
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

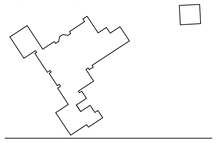
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

ENLARGED SITE DEMOLITION PLAN - FIELD HOUSE

SHEET NUMBER

E1.11

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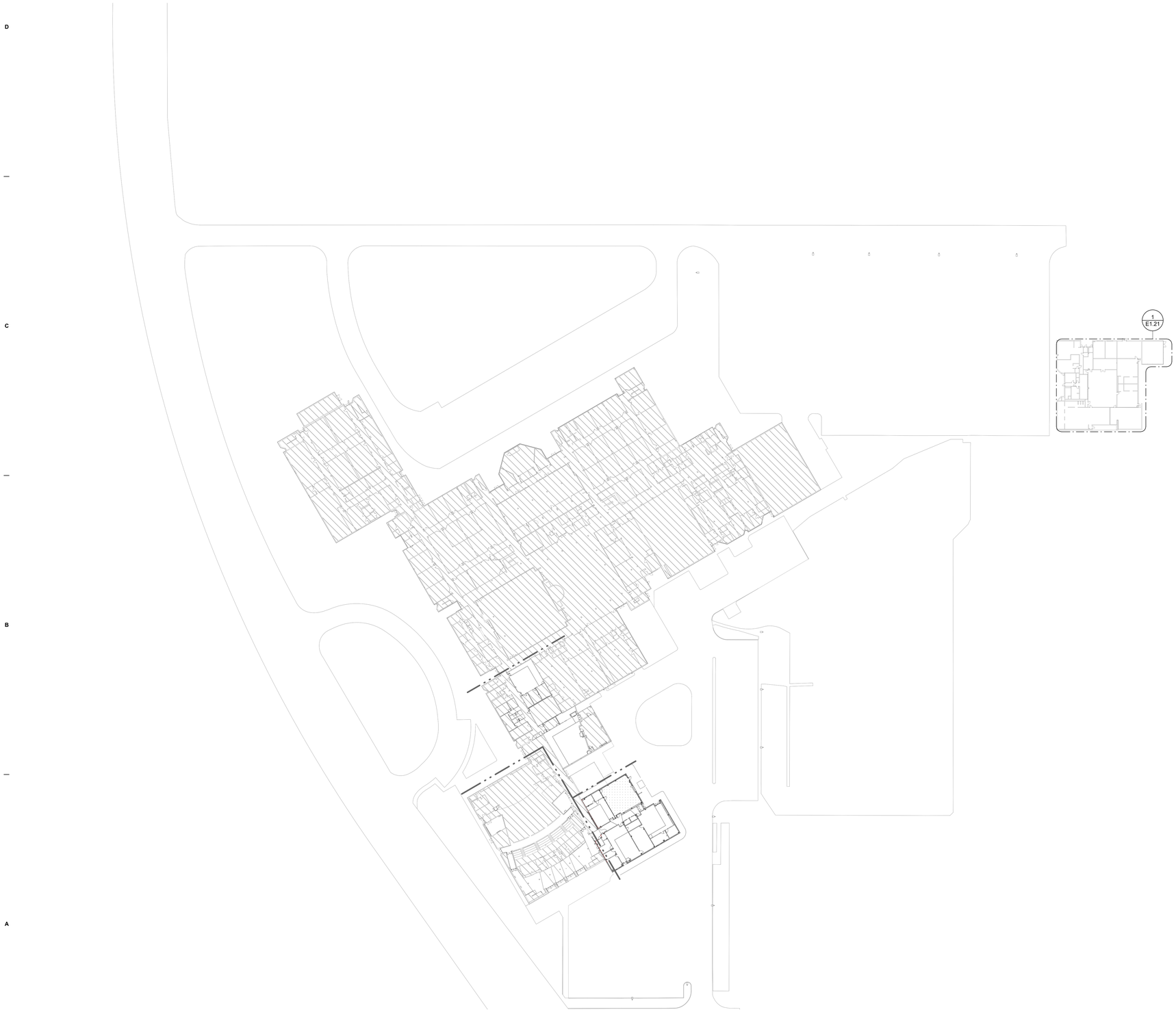

1 SITE PLAN - ELECTRICAL
1" = 60'-0"

GENERAL NOTES (SITE):

GENERAL

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO:
- THE SITE SURVEY
- THE ARCHITECTURAL SITE PLAN
- THE SITE GRADING PLAN
- THE PLANTING PLAN (WHERE AVAILABLE)
- FOUNDATION PLAN(S)
- APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS
- OTHER SITE UTILITY PLANS

WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL AT MINIMUM COMPLY WITH FEDERAL, STATE, COUNTY, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS. IN CASE OF CONFLICTS OR DISCREPANCIES AMONG CODE REQUIREMENTS OR BETWEEN ANY CODE REQUIREMENT AND THIS DESIGN, THE MOST STRINGENT SHALL APPLY.

E. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS, AND SAFETY REQUIREMENTS, INCLUDING 811 / "B-U-D".

F. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY AND/OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER.

G. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO COVERING OF WORK. PROVIDE PHOTOS UPON REQUEST.

H. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

EXISTING CONDITIONS

I. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS; ACTUAL UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES.

J. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

K. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME. PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

L. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.

TECHNICAL REQUIREMENTS

M. PROVIDE LONG-RADIUS SWEEPING ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.

N. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

O. PROVIDE PULL BOXES PER DETAILS AND SPECIFICATIONS. IF ADDITIONAL PULL BOXES ARE NEEDED, COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

TAGGED NOTES ##

Kirksey ARCHITECTURE

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Houston Texas 77024

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STATE OF TEXAS
GEORGE JAMES EHRIT
103744
LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

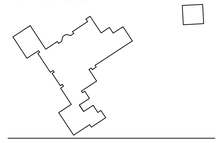
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

SITE PLAN - ELECTRICAL

SHEET NUMBER

E1.20

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1 ENLARGED SITE PLAN - FIELD HOUSE
1/8" = 1'-0"

GENERAL NOTES (SITE):

GENERAL

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO:
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- THE ARCHITECTURAL SITE PLAN
- THE SITE GRADING PLAN
- THE PLANTING PLAN (WHERE AVAILABLE)
- FOUNDATION PLAN(S)
- APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS
- OTHER SITE UTILITY PLANS

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O. PROVIDE PULL BOXES PER DETAILS AND SPECIFICATIONS. IF ADDITIONAL PULL BOXES ARE NEEDED, COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

TAGGED NOTES (##)

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Houston Texas 77024

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STATE OF TEXAS — GEORGE JAMES EHRIT — 134211 — REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627
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FORT BEND 2025 BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

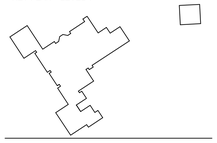
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

ENLARGED SITE PLAN - FIELD HOUSE

SHEET NUMBER

E1.21

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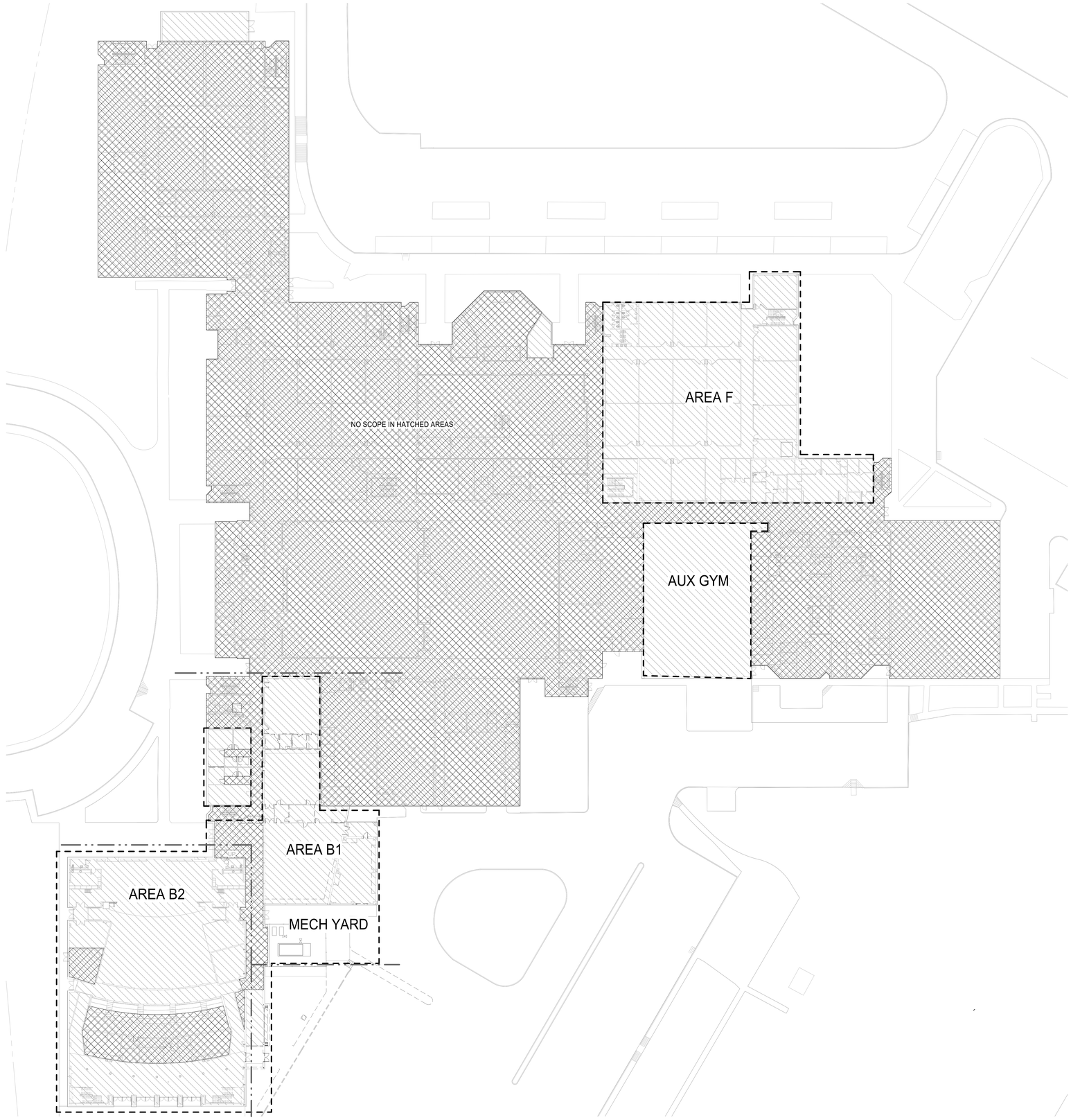

1 LEVEL 1 ELECTRICAL DEMOLITION PLAN OVERALL
1" = 30'-0"

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ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024
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PROJECT NAME
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PROJECT ADDRESS
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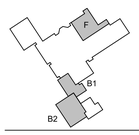
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 1 ELECTRICAL DEMOLITION PLAN OVERALL

SHEET NUMBER
E2.11

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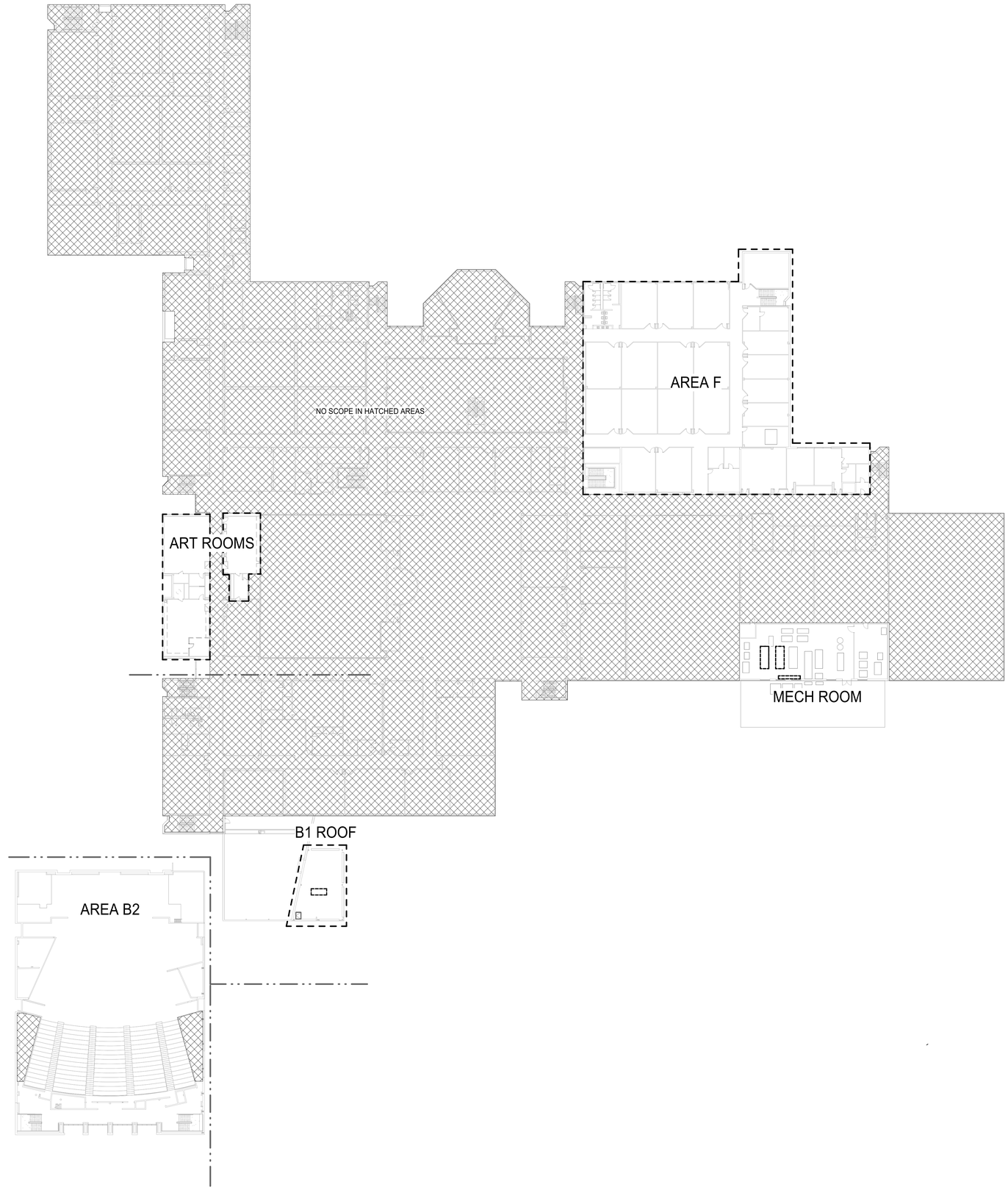

1 LEVEL 2 DEMOLITION FLOOR PLAN ELECTRICAL
1" = 30'-0"

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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STATE OF TEXAS
GEORGE JAMES VEHRT
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

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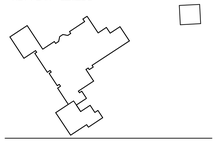
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 ELECTRICAL DEMOLITION PLAN OVERALL

SHEET NUMBER

E2.12

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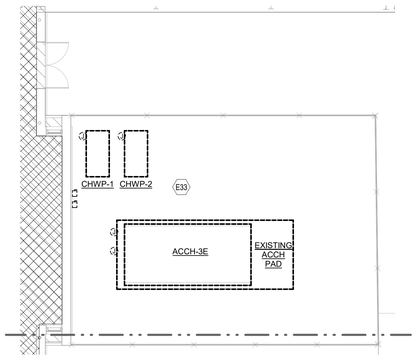
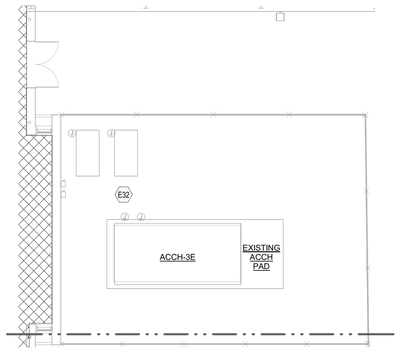
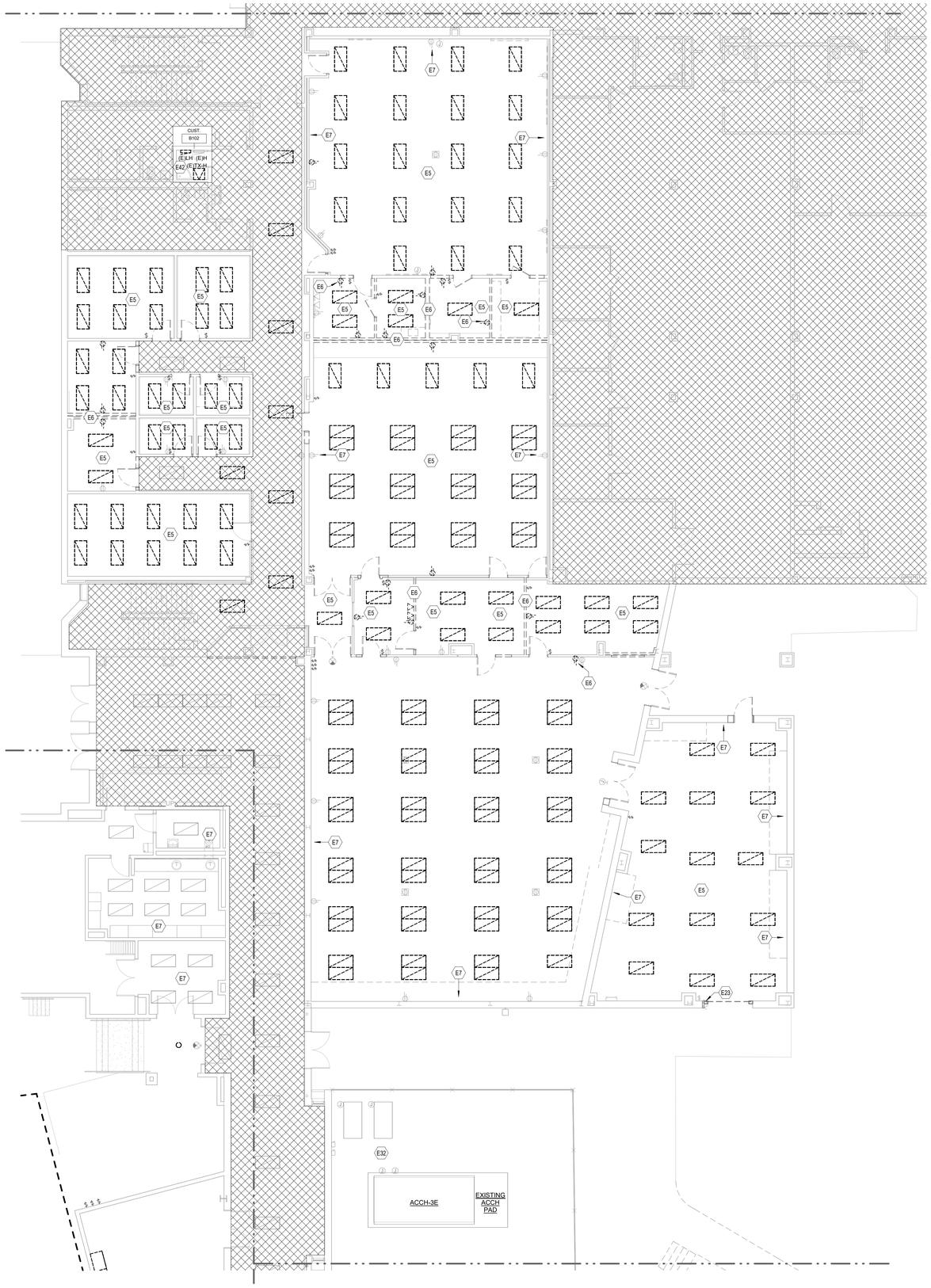


3 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN -MECH YARD - ALTERNATE 11B
1/8" = 1'-0"



2 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - MECH YARD
1/8" = 1'-0"



1 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - AREA B1
1/8" = 1'-0"

TAGGED NOTES ##

E5	ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS ROOM SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING LIGHTING CIRCUIT.
E6	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING CIRCUIT.
E7	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL REMAIN.
E23	EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED. EXISTING POWER FOR UNIT SHALL BE REMOVED. EXISTING CIRCUIT SHALL BE REUSED FOR NEW MECHANICAL UNIT.
E32	EXISTING POWER FOR ALL MECHANICAL UNITS SHALL REMAIN.
E33	ALTERNATE 11B: EXISTING CHILLER TO BE REMOVED AND REPLACED WITH TWO (2) CHILLERS. EXISTING PUMPS TO BE REMOVED AND REPLACED. EXISTING CIRCUITS SHALL BE REUSED FOR NEW PUMPS.
E42	EXISTING PANEL 'LH' AND ASSOCIATED TRANSFORMER 'TX-H' SHALL BE REMOVED AND REPLACED. REFER TO ONE-LINE DIAGRAM ON SHEET 'E5.04' FOR MORE INFORMATION.

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

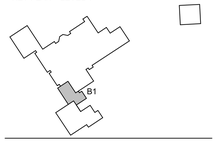
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA B1

SHEET NUMBER

E2.13

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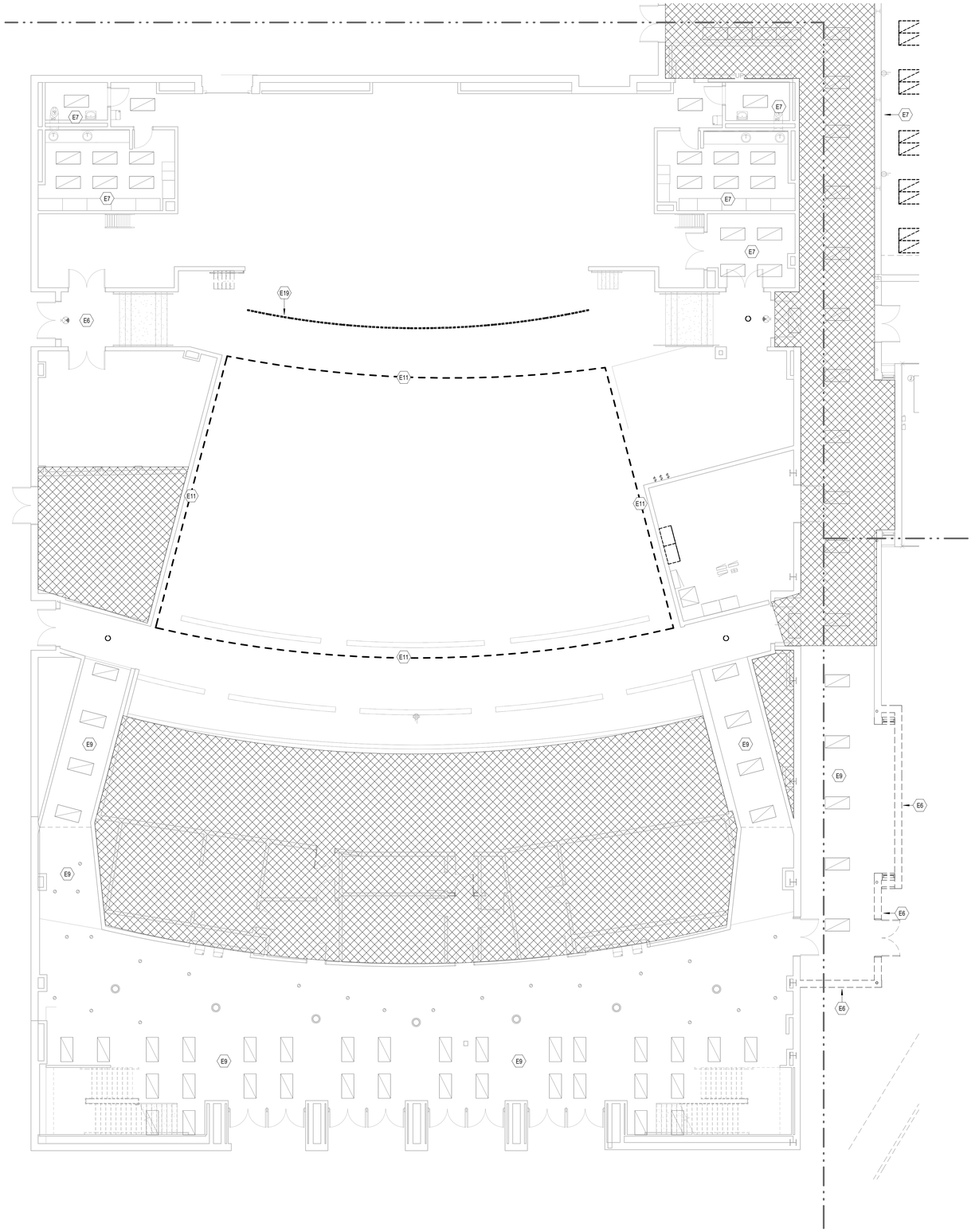

1 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - AREA B2
1/8" = 1'-0"

TAGGED NOTES ##

E6	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING CIRCUIT.
E7	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL REMAIN.
E9	ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS ROOM SHALL REMAIN.
E11	EXISTING POWER FOR WALKWAY LIGHTING ON LOWER LEVEL SEATING SHALL REMAIN. EXISTING WALKWAY LIGHT FIXTURES SHALL BE RETROFITTED.
E19	EXISTING STAGE EDGE LIGHT SHALL BE REMOVED AND REPLACED.

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STATE OF TEXAS
REGINALD JAMES WHITE
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

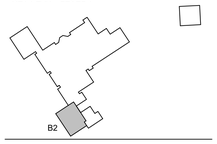
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA B2

SHEET NUMBER

E2.14

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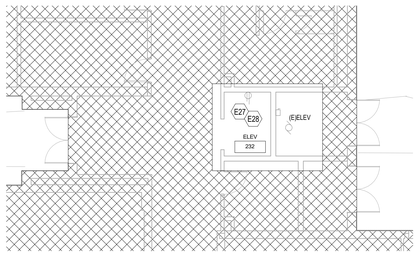
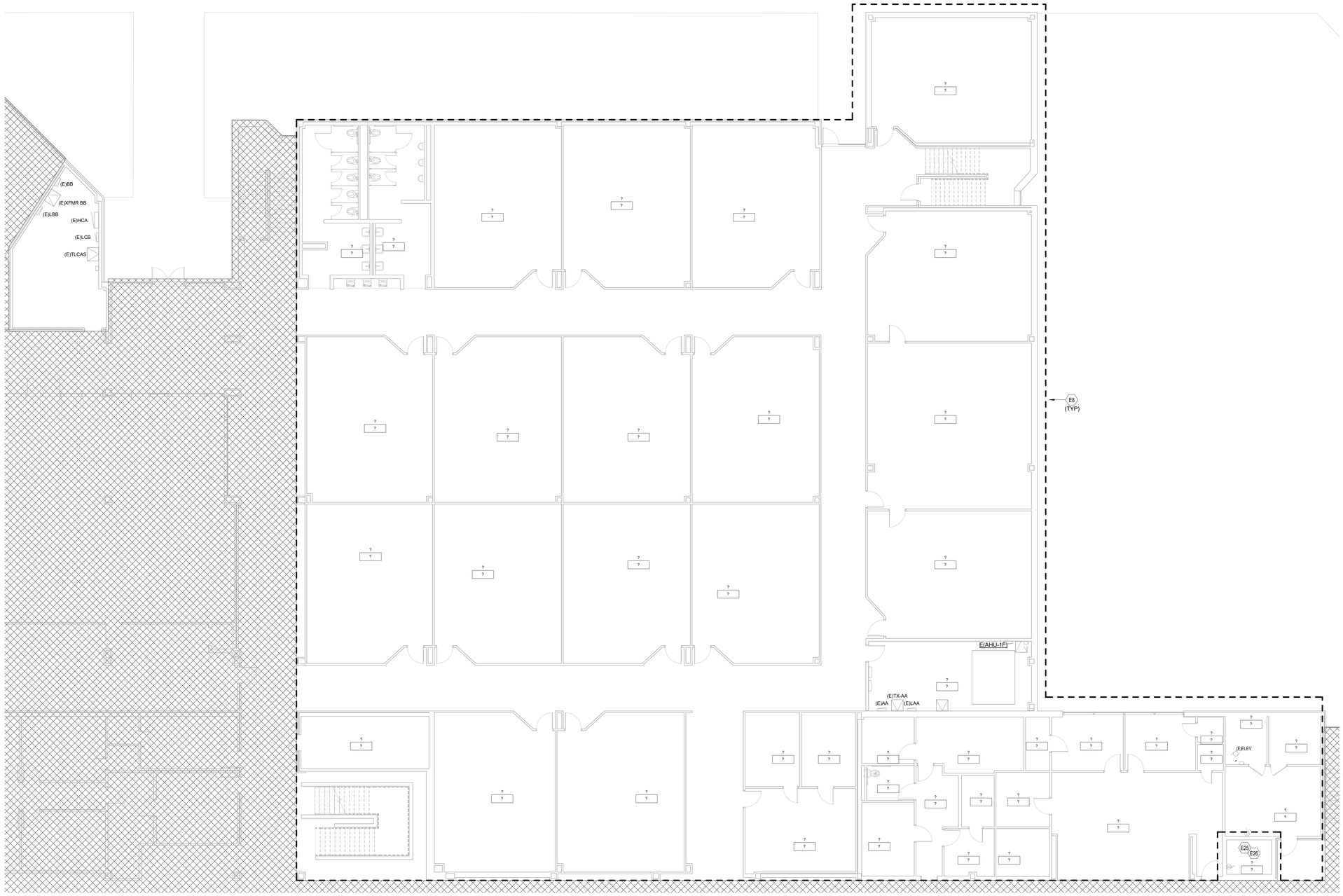


2 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - AREA D
1/8" = 1'-0"



1 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - AREA F
1/8" = 1'-0"

TAGGED NOTES ##

E8	ALL EXISTING DAMPERS IN THIS AREA TO BE REMOVED AND REPLACED WITH FVAV UNITS. ANY ASSOCIATED ELECTRICAL DEVICES SHALL BE REMOVED. ALL OTHER EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN THIS AREA SHALL REMAIN.
E25	EXISTING ELEVATOR TO BE REMOVED AND REPLACED. EXISTING ELECTRICAL EQUIPMENT AND CIRCUITING SHALL BE REUSED FOR NEW ELEVATOR.
E26	ALTERNATE 9A: EXISTING ELEVATOR TO REMAIN AND BE MODERNIZED. EXISTING POWER SHALL REMAIN.
E27	EXISTING POWER FOR ELEVATOR TO REMAIN.
E28	ALTERNATE 10B: EXISTING ELEVATOR TO BE REMOVED AND REPLACED. EXISTING ELECTRICAL EQUIPMENT AND CIRCUITING SHALL BE REUSED FOR NEW ELEVATOR.

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2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

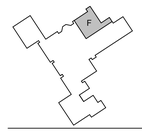
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 ELECTRICAL DEMOLITION PLAN - AREA F & D

SHEET NUMBER

E2.15

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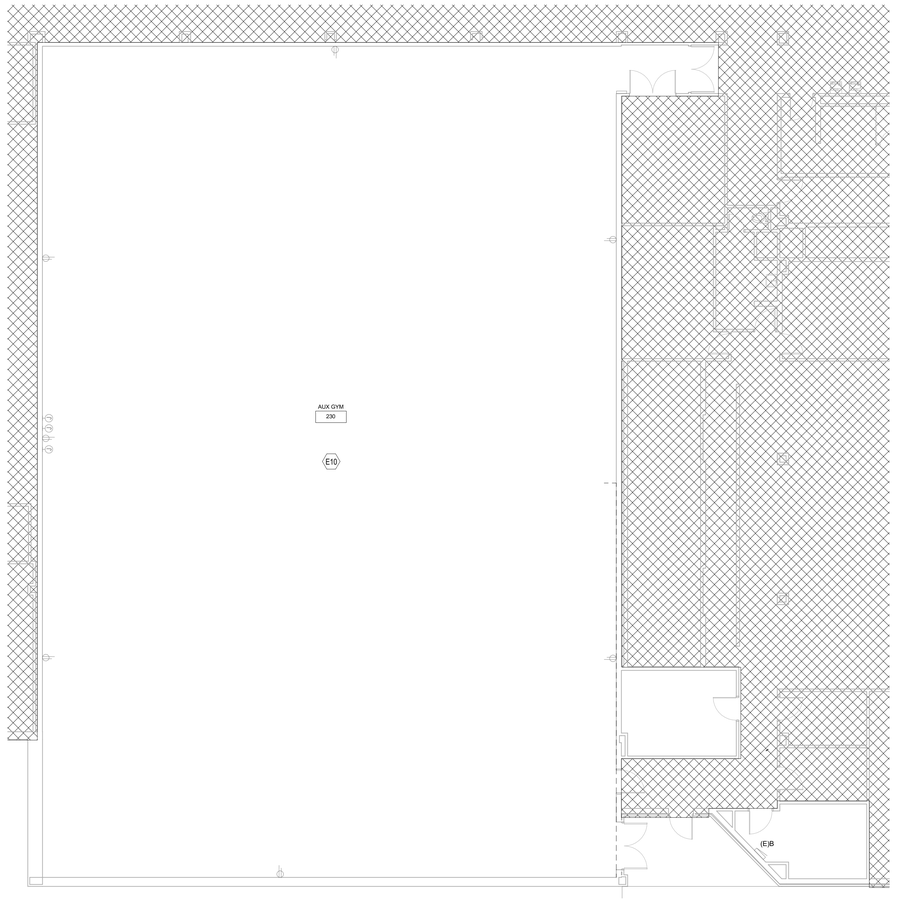
TAGGED NOTES ##

E10 | ALL EXISTING ELECTRICAL DEVICES IN THIS ROOM SHALL REMAIN.



1 LEVEL 1 ELECTRICAL DEMOLITION FLOOR PLAN - AUX GYM
1/8" = 1'-0"

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STATE OF TEXAS
REGINA JAMIE WEHRLI
103-E
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2020 BOND

PROJECT NAME

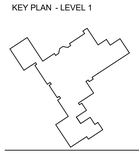
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 ELECTRICAL DEMOLITION PLAN - AUX GYM

SHEET NUMBER

E2.16

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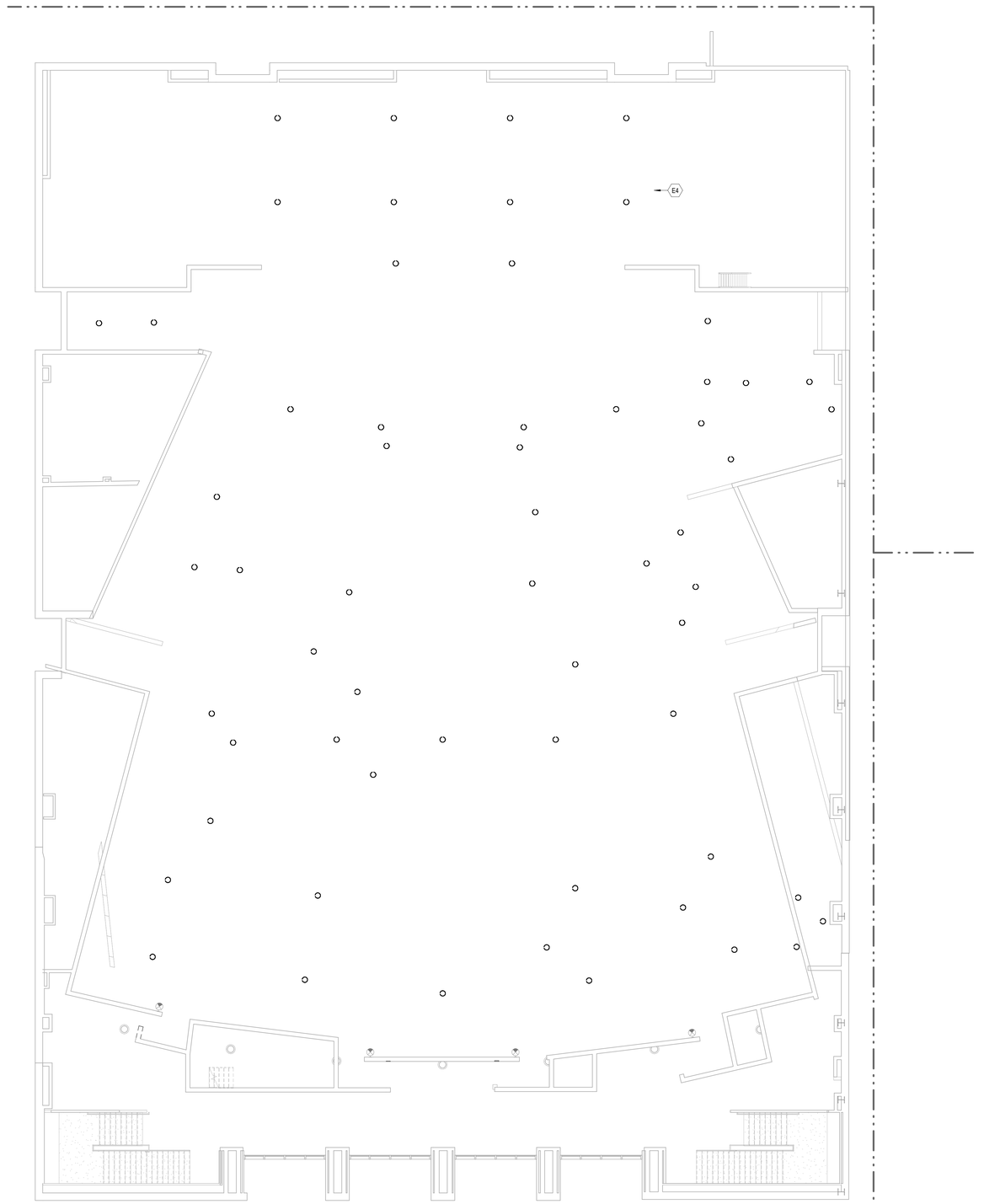

1 LEVEL 2 ELECTRICAL DEMOLITION FLOOR PLAN - AREA B2
1/8" = 1'-0"

TAGGED NOTES ##

E4 ALL THEATRICAL AND BACK OF HOUSE LIGHTING IN THE AUDITORIUM SHALL BE REMOVED AND REPLACED ONE-FOR-ONE.

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STATE OF TEXAS
GEORGE JAMES OEHRLI
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PROFESSIONAL ENGINEER

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

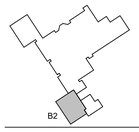
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA B2

SHEET NUMBER

E2.17

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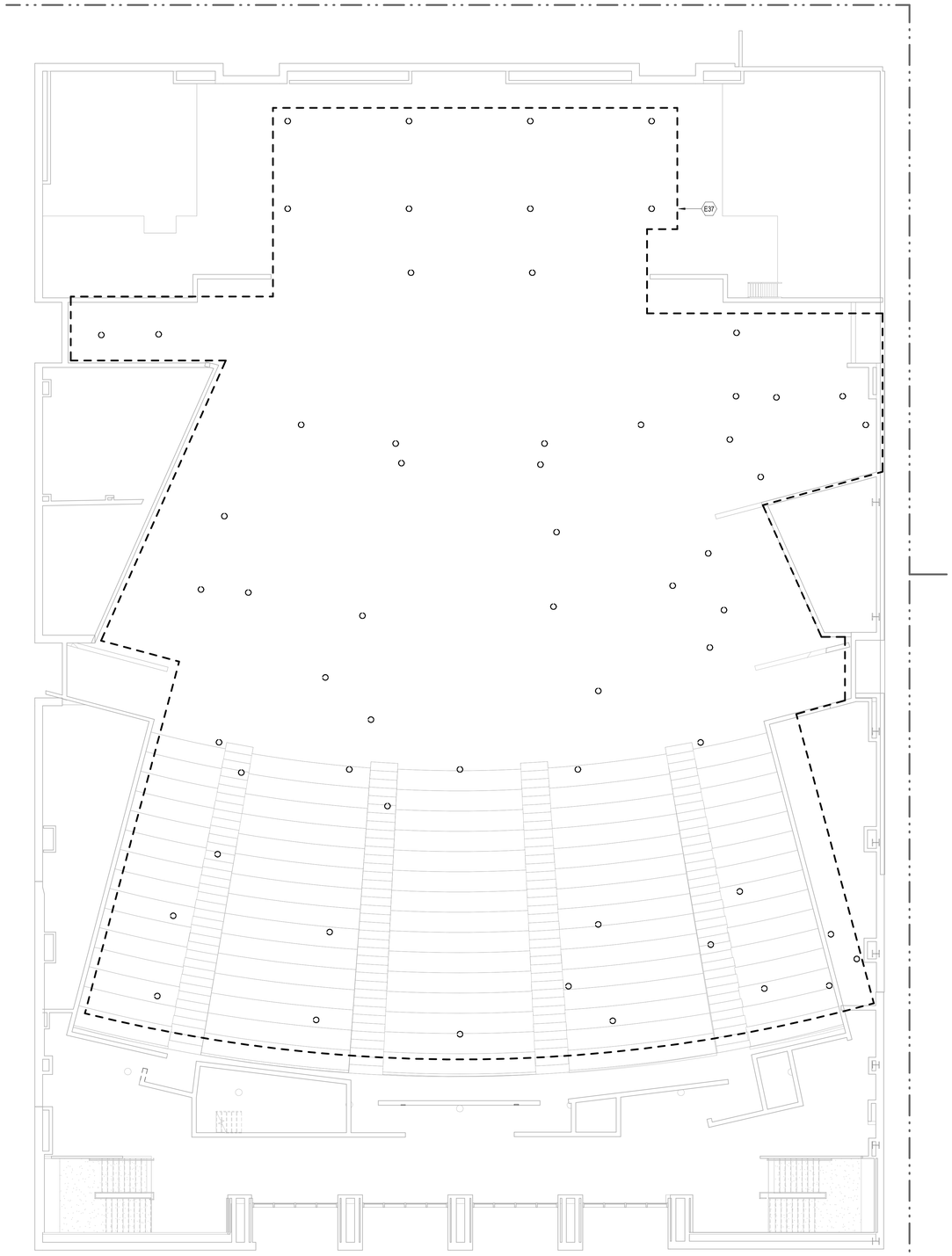
TAGGED NOTES (##)

E37	ALTERNATE 6A: EXISTING THEATRICAL LIGHTING SHALL BE REMOVED AND REPLACED WITH REVISED LAYOUT.



1 LEVEL 2 ELECTRICAL DEMOLITION FLOOR PLAN - AREA B2 - ALTERNATE
1/8" = 1'-0"

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STATE OF TEXAS
REGINALD JAMES LEHRT
103427
LICENSED PROFESSIONAL ENGINEER

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

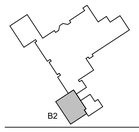
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA B2 - ALTERNATE

SHEET NUMBER

E2.17.A

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1 LEVEL 2 ELECTRICAL DEMOLITION FLOOR PLAN - AREA F
1/8" = 1'-0"

TAGGED NOTES ##

E8 ALL EXISTING DAMPERS IN THIS AREA TO BE REMOVED AND REPLACED WITH FVAV UNITS. ANY ASSOCIATED ELECTRICAL DEVICES SHALL BE REMOVED. ALL OTHER EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN THIS AREA SHALL REMAIN.

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STATE OF TEXAS
REGINA JAMIE EHRIT
CMTA F-8627
REGISTERED PROFESSIONAL ENGINEER

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

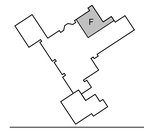
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 ELECTRICAL DEMOLITION PLAN - AREA F

SHEET NUMBER

E2.18

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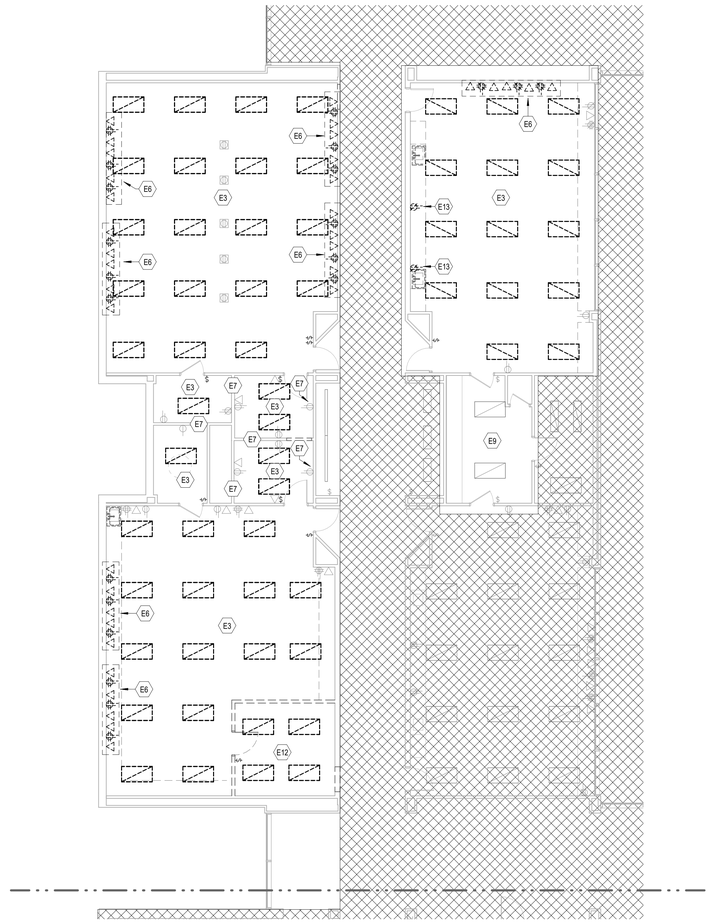
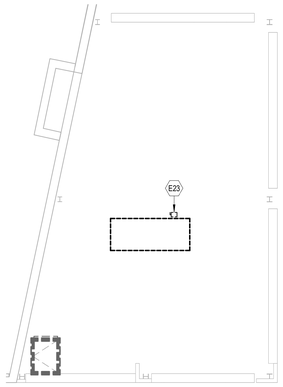
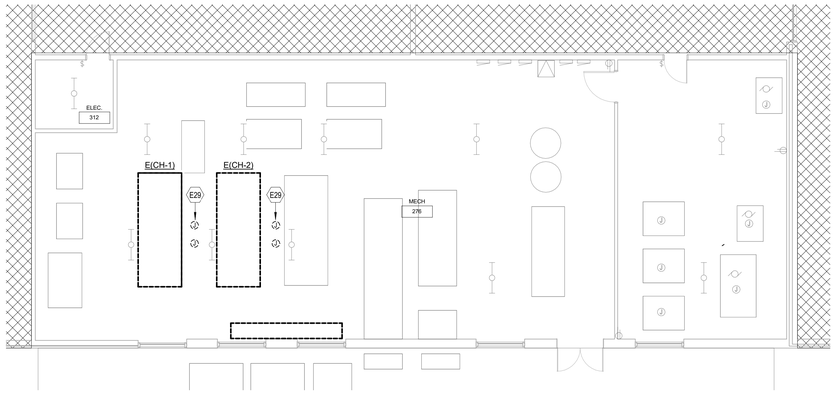
TAGGED NOTES	##
E3	ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS ROOM SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT(S) SHALL BE REUSED FOR NEW LIGHTING.
E6	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING CIRCUIT.
E7	ALL EXISTING ELECTRICAL DEVICES ON THIS WALL SHALL REMAIN.
E9	ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS ROOM SHALL REMAIN.
E12	ALL ELECTRICAL DEVICES IN THIS ROOM SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING LIGHTING CIRCUIT.
E13	EXISTING DUPLEX ON THIS WALL SHALL BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST FIXTURE OR JUNCTION BOX IN SERIES. EXTEND CIRCUIT AS REQUIRED TO KEEP CONTINUITY OF EXISTING CIRCUIT.
E23	EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED. EXISTING POWER FOR UNIT SHALL BE REMOVED. EXISTING CIRCUIT SHALL BE REUSED FOR NEW MECHANICAL UNIT.
E29	ALTERNATE 11A & 11B: EXISTING CHILLERS SHALL BE REMOVED AND REPLACED. EXISTING CIRCUITING SHALL BE REUSED FOR NEW CHILLER.



2 LEVEL 2 ELECTRICAL DEMOLITION FLOOR PLAN - ART ROOMS
1/8" = 1'-0"



3 ROOF ELECTRICAL DEMOLITION PLAN - B1 ROOF
1/8" = 1'-0"



1 LEVEL 2 ELECTRICAL DEMOLITION FLOOR PLAN - MECH
1/8" = 1'-0"

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

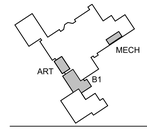
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 ELECTRICAL DEMOLITION PLAN - ART ROOMS & MECH SPACES

SHEET NUMBER

E2.19

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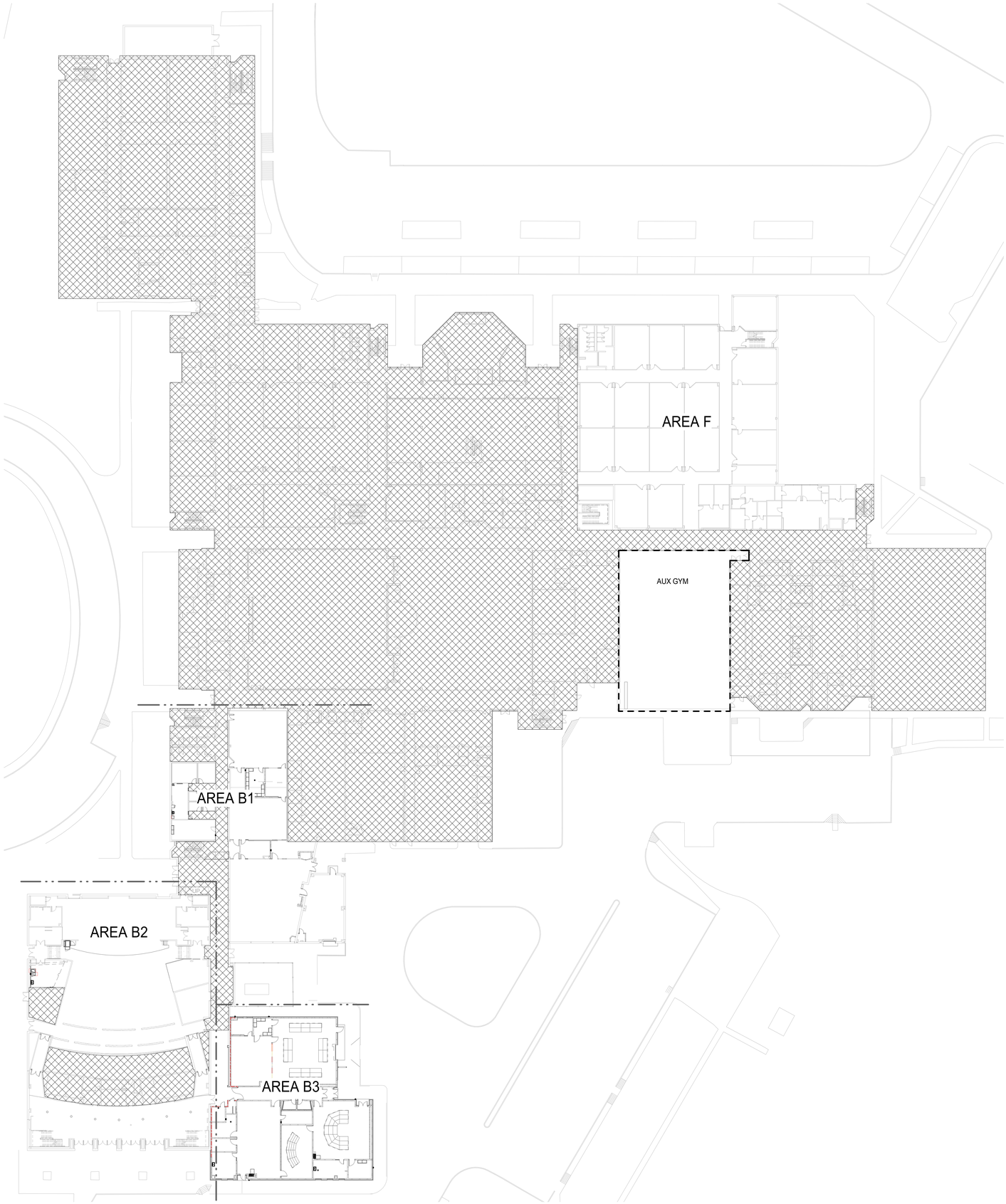

1 LEVEL 1 OVERALL ELECTRICAL PLAN
1" = 30'-0"

TAGGED NOTES ##

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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STATE OF TEXAS
REGINA JAMIE EHRIT
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

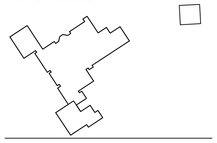
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 1 OVERALL PLAN - ELECTRICAL

SHEET NUMBER

E2.21

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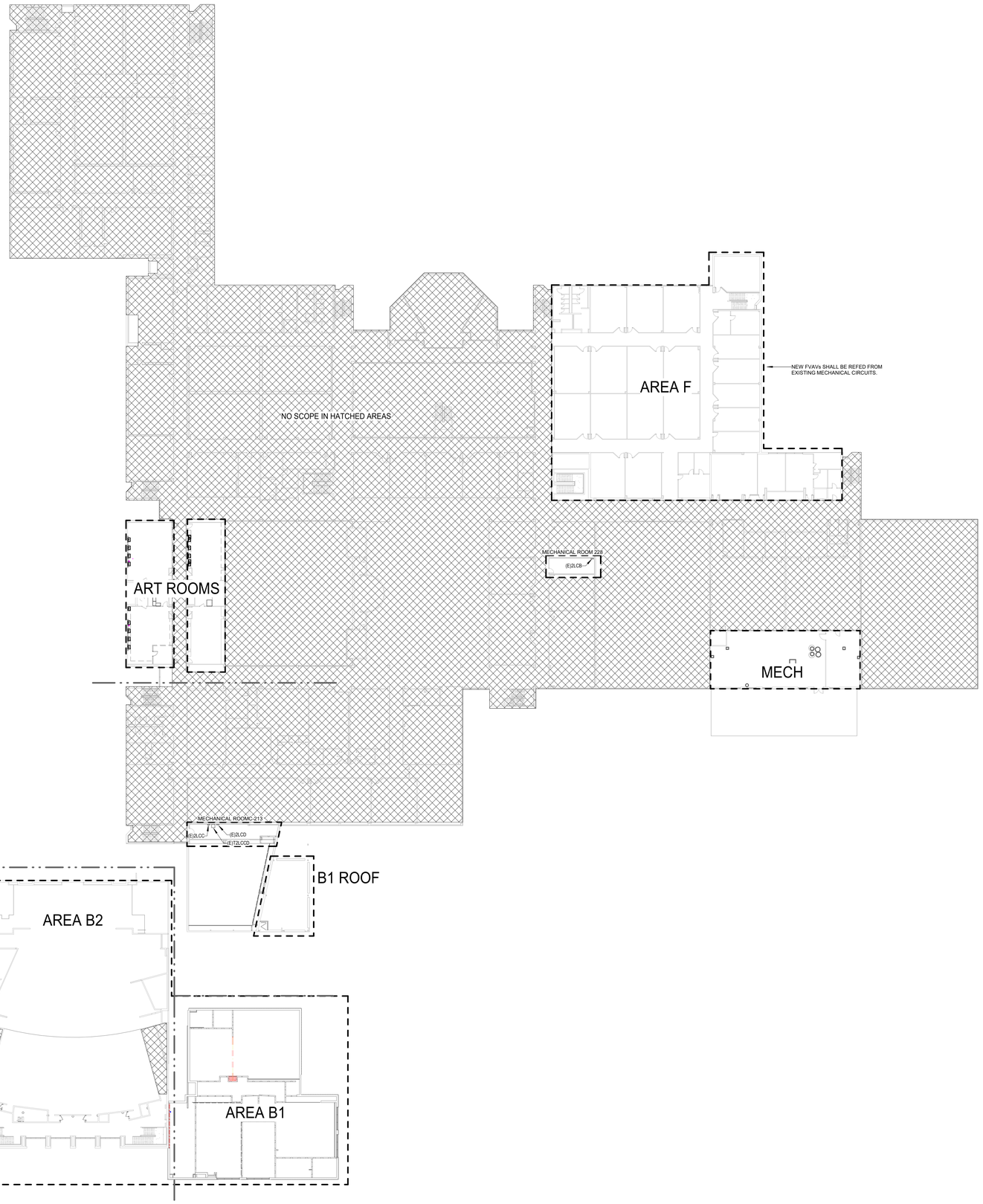
TAGGED NOTES ##



1 LEVEL 2 OVERALL ELECTRICAL PLAN
1" = 30'-0"

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Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

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STATE OF TEXAS
REGINALD JAMES VEHRT
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2

SHEET TITLE

LEVEL 2 OVERALL PLAN - ELECTRICAL

SHEET NUMBER

E2.22

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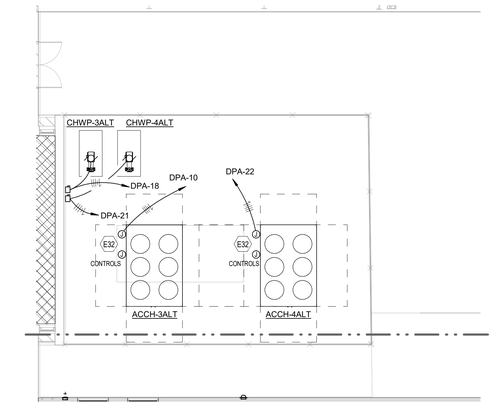
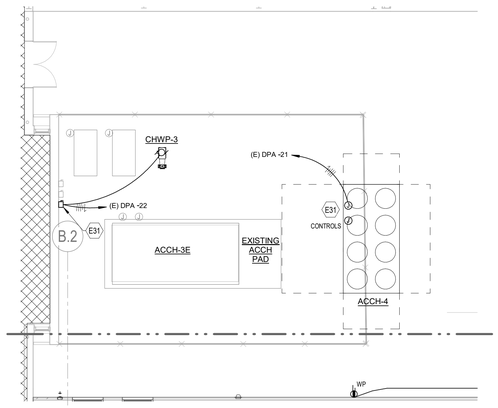
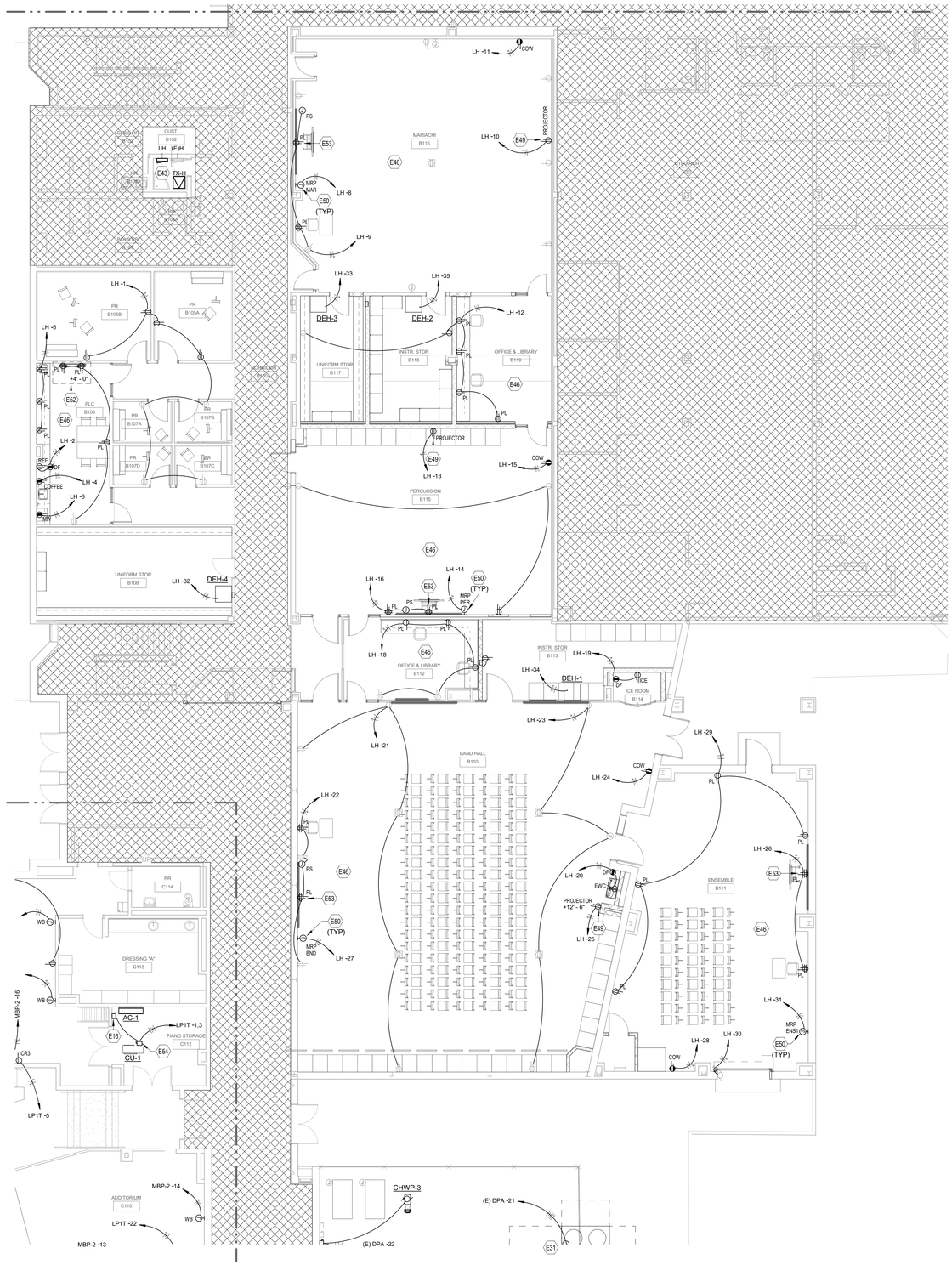


3 LEVEL 1 - POWER FLOOR PLAN - ALTERNATE 11B - MECH YARD
1/8" = 1'-0"



2 LEVEL 1 - POWER FLOOR PLAN - MECH YARD
1/8" = 1'-0"



1 LEVEL 1 - POWER FLOOR PLAN - AREA B1
1/8" = 1'-0"

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C.

D. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES

E16	PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH FOR AC UNIT. MOUNT ADJACENT TO UNIT.
E31	ALTERNATE 11A: ADDITIONAL CHILLER AND ASSOCIATED PUMP ADDED FOR FINE ARTS ADDITION. NEW CHILLER SHALL BE CONNECTED TO EXISTING SWITCHBOARD 'MSBB'. NEW PUMP SHALL BE CIRCUITED TO NEAREST MECHANICAL PANEL.
E32	EXISTING POWER FOR ALL MECHANICAL UNITS SHALL REMAIN.
E43	EXISTING PANEL 'LH' AND ASSOCIATED TRANSFORMER 'TX-H' SHALL BE REMOVED AND REPLACED. NEW TRANSFORMER SHALL BE SUSPENDED. REFER TO ONE-LINE DIAGRAM ON SHEET 'E5.04' FOR MORE INFORMATION.
E46	AT LEAST 50% OF ALL NEW RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, AND BREAKROOMS SHALL BE PLUG-LOAD CONTROLLED CONTROLLED BY ROOM CONTROLLER WITHIN ASSOCIATED ROOM, U.O.N. PLUG-LOAD CONTROLLED RECEPTACLES ARE DENOTED WITH 'PL'.
E49	POWER FOR PROJECTOR SHALL BE RECESSED IN WALL BOX. REFER TO AV DETAIL ON SHEET 'AV0.90' AND AV SECTIONS FOR EXACT LOCATION AND MORE INFORMATION.
E50	PROVIDE ISOLATED GROUNDS FOR AV EQUIPMENT POWER. TYPICAL FOR ALL AV EQUIPMENT LOCATIONS.
E52	REFER TO TECHNOLOGY ELEVATION ON SHEET 'T4.02' FOR EXACT POWER LOCATIONS FOR INTERACTIVE DISPLAY.
E53	REFER TO TECHNOLOGY ELEVATION ON SHEET 'T4.02' FOR EXACT POWER LOCATIONS FOR CLASSROOM WALL.
E54	PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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GEORGE JAMES CHRITZ — 127 — REGISTERED PROFESSIONAL ENGINEER — STATE OF TEXAS

CMTA F-8627
2025.09.16

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A	12/04/2024	100% SCHEMATIC DESIGN
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

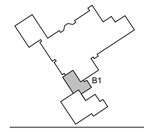
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 POWER FLOOR PLAN - AREA B1

SHEET NUMBER

E2.31

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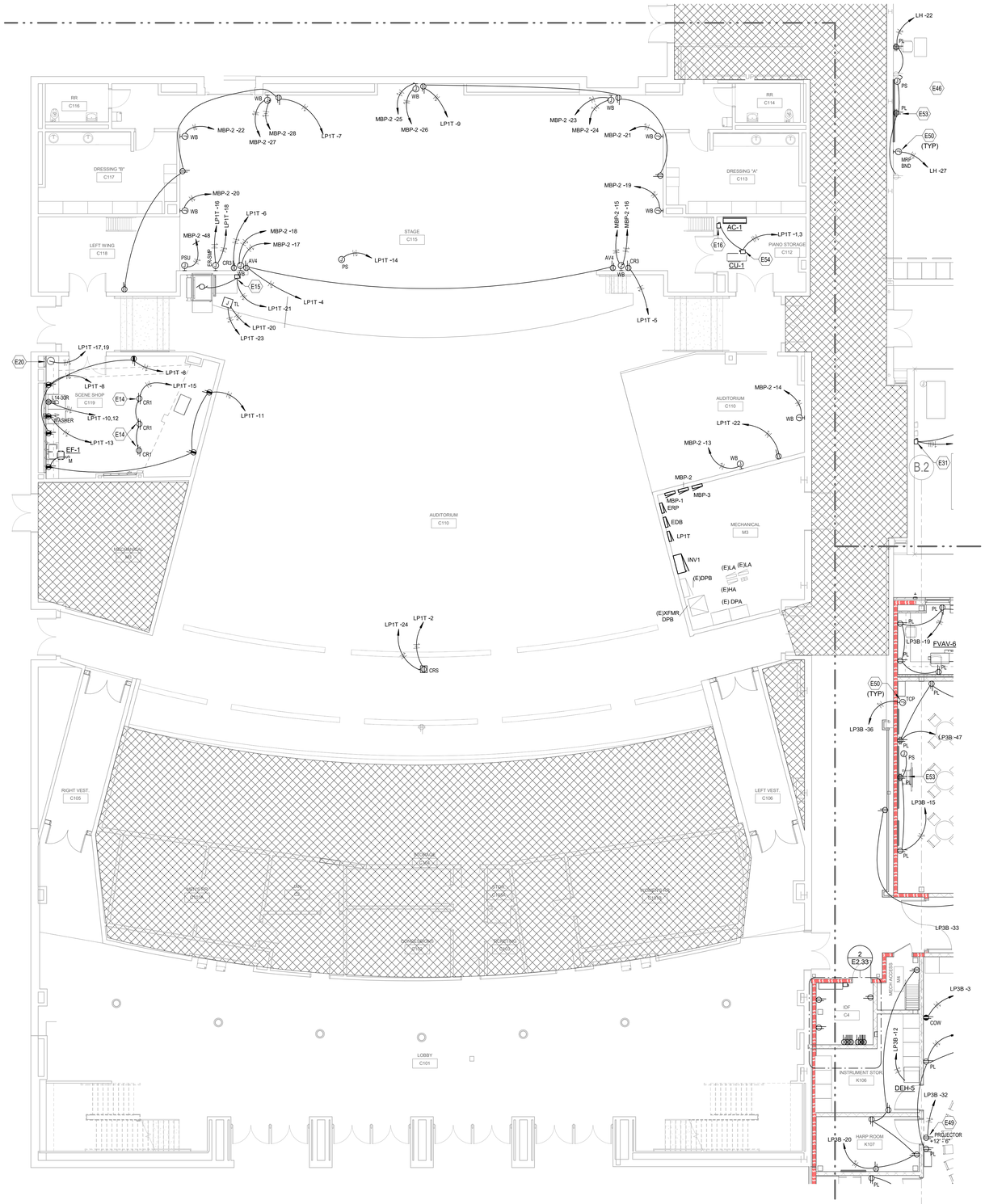

1 LEVEL 1 - POWER FLOOR PLAN - AREA B2
1/8" = 1'-0"

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C.

D. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES

##	
E14	PROVIDE RETRACTABLE CORD REEL, HUBBEL # HBLC25163C OR APPROVED EQUAL, WITH GFCI DUPLEX.
E15	PROVIDE 250V/30A/NF/3P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH FOR LIFT STATION.
E16	PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH FOR AC UNIT. MOUNT ADJACENT TO UNIT.
E20	PROVIDE 250V/30A/NF/3P/NEMA-3R HEAVY DUTY DISCONNECT SWITCH FOR WATER HEATER.
E31	ALTERNATE 11A: ADDITIONAL CHILLER AND ASSOCIATED PUMP ADDED FOR FINE ARTS ADDITION. NEW CHILLER SHALL BE CONNECTED TO EXISTING SWITCHBOARD 'MSBB'. NEW PUMP SHALL BE CIRCUITED TO NEAREST MECHANICAL PANEL.
E46	AT LEAST 50% OF ALL NEW RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, AND BREAKROOMS SHALL BE PLUG-LOAD CONTROLLED CONTROLLED BY ROOM CONTROLLER WITHIN ASSOCIATED ROOM, U.O.N. PLUG-LOAD CONTROLLED RECEPTACLES ARE DENOTED WITH 'PL'.
E49	POWER FOR PROJECTOR SHALL BE RECESSED IN WALL BOX. REFER TO AV DETAIL ON SHEET 'AV0.90' AND AV SECTIONS FOR EXACT LOCATION AND MORE INFORMATION.
E50	PROVIDE ISOLATED GROUNDS FOR AV EQUIPMENT POWER. TYPICAL FOR ALL AV EQUIPMENT LOCATIONS.
E53	REFER TO TECHNOLOGY ELEVATION ON SHEET 'T4.02' FOR EXACT POWER LOCATIONS FOR CLASSROOM WALL.
E54	PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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STATE OF TEXAS
GEORGE JAMES CHRIST
103777
LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

△	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 POWER FLOOR PLAN - AREA B2

SHEET NUMBER

E2.32

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GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C.

D. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

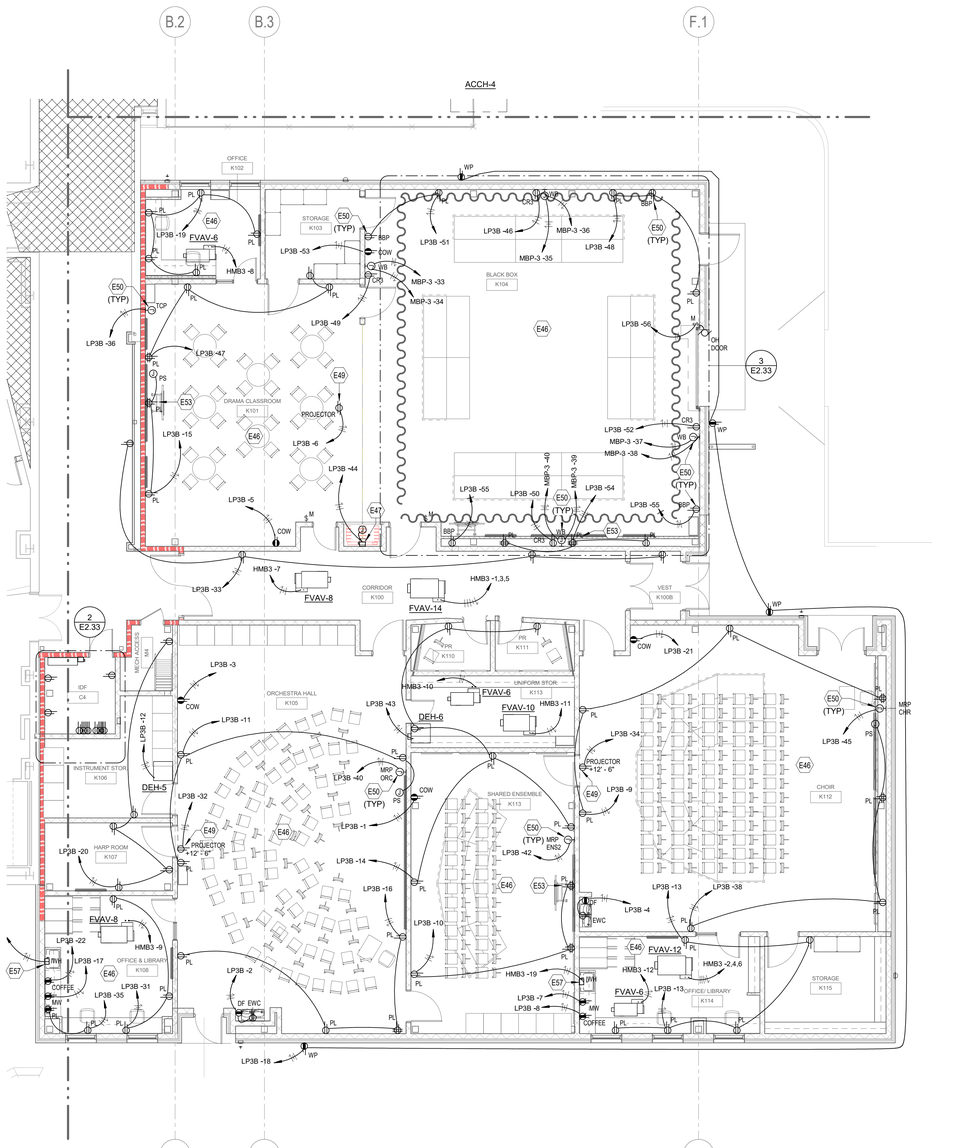
E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

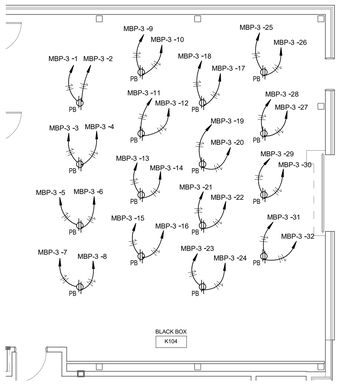
G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES (#)

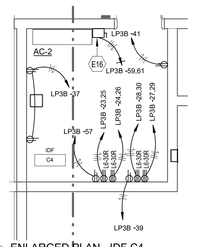
E16	PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH FOR AC UNIT. MOUNT ADJACENT TO UNIT.
E46	AT LEAST 50% OF ALL NEW RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, AND BREAKROOMS SHALL BE PLUG-LOAD CONTROLLED CONTROLLED BY ROOM CONTROLLER WITHIN ASSOCIATED ROOM, U.O.N. PLUG-LOAD CONTROLLED RECEPTACLES ARE DENOTED WITH 'PL'.
E47	PROVIDE 250V/60A/NF/1P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH FOR MOTORIZED PARTITION. COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION.
E49	POWER FOR PROJECTOR SHALL BE RECESSED IN WALL BOX. REFER TO AV DETAIL ON SHEET 'AV0.90' AND AV SECTIONS FOR EXACT LOCATION AND MORE INFORMATION.
E50	PROVIDE ISOLATED GROUNDS FOR AV EQUIPMENT POWER. TYPICAL FOR ALL AV EQUIPMENT LOCATIONS.
E53	REFER TO TECHNOLOGY ELEVATION ON SHEET 'T4.02' FOR EXACT POWER LOCATIONS FOR CLASSROOM WALL.
E57	PROVIDE 600V/30A/NF/1P/NEMA-3R HEAVY DUTY DISCONNECT SWITCH.



1 LEVEL 1 - POWER FLOOR PLAN - AREA B3
1/8" = 1'-0"



3 K104 BLACK BOX PIPE GRID
1/8" = 1'-0"



2 ENLARGED PLAN - IDF C4
1/4" = 1'-0"

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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STATE OF TEXAS — REGINALD JAMES VEHRT — 124317 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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PROJECT ADDRESS

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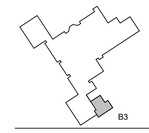
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 POWER FLOOR PLAN - AREA B3

SHEET NUMBER

E2.33

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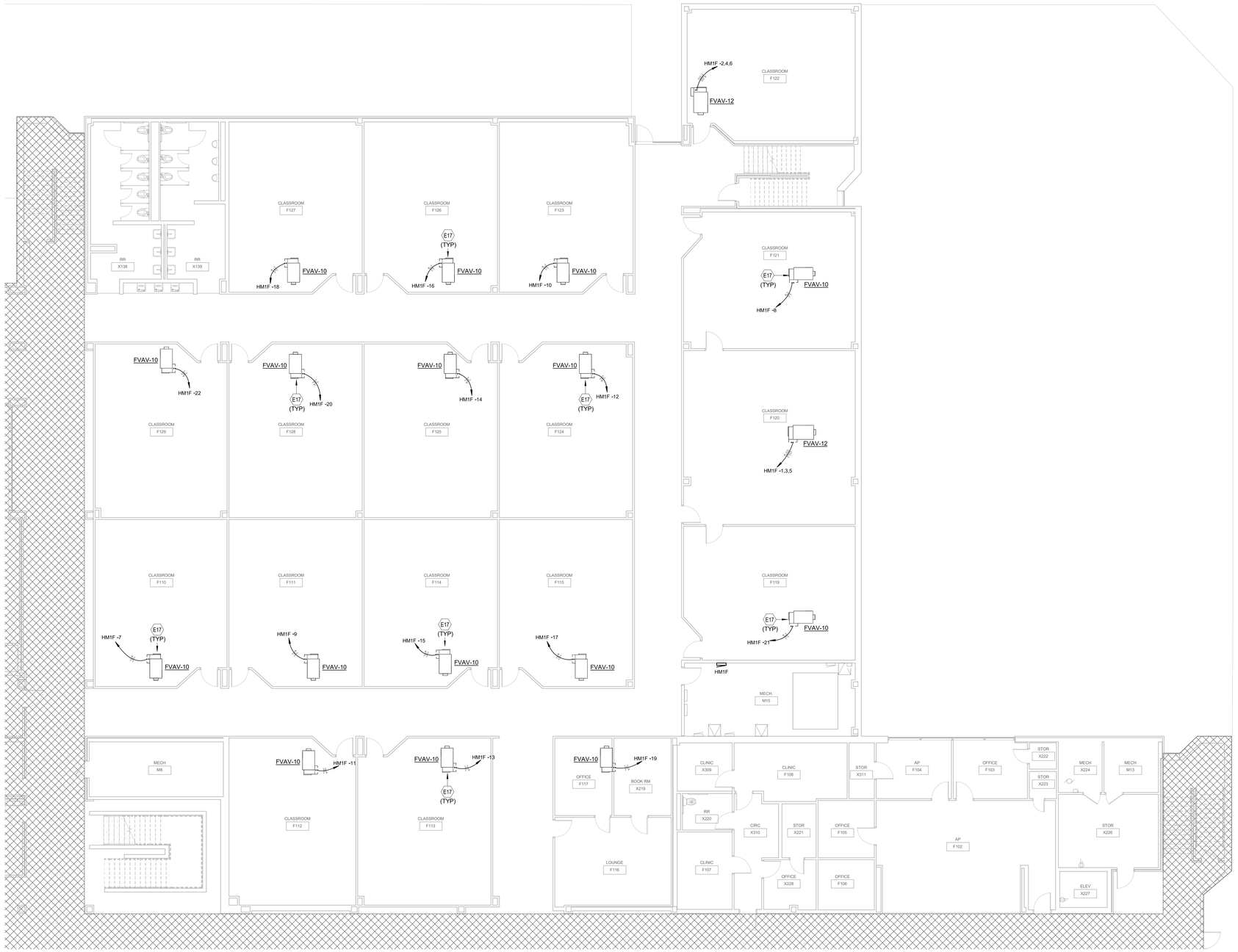

1 LEVEL 1 - POWER FLOOR PLAN - AREA F
1/8" = 1'-0"

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C.

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E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES

E17	NEW FVAV UNITS IN AREA F SHALL BE CIRCUITED TO NEW MECHANICAL PANEL. TYPICAL FOR ALL FVAV UNITS IN THIS AREA.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

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713 850 9600

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STATE OF TEXAS — GEORGE JAMES OEHRLE — 124217 — REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
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B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT — 2025 BOND

PROJECT NAME

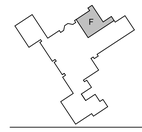
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 POWER FLOOR PLAN - AREA F

SHEET NUMBER

E2.34

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GENERAL NOTES (POWER):

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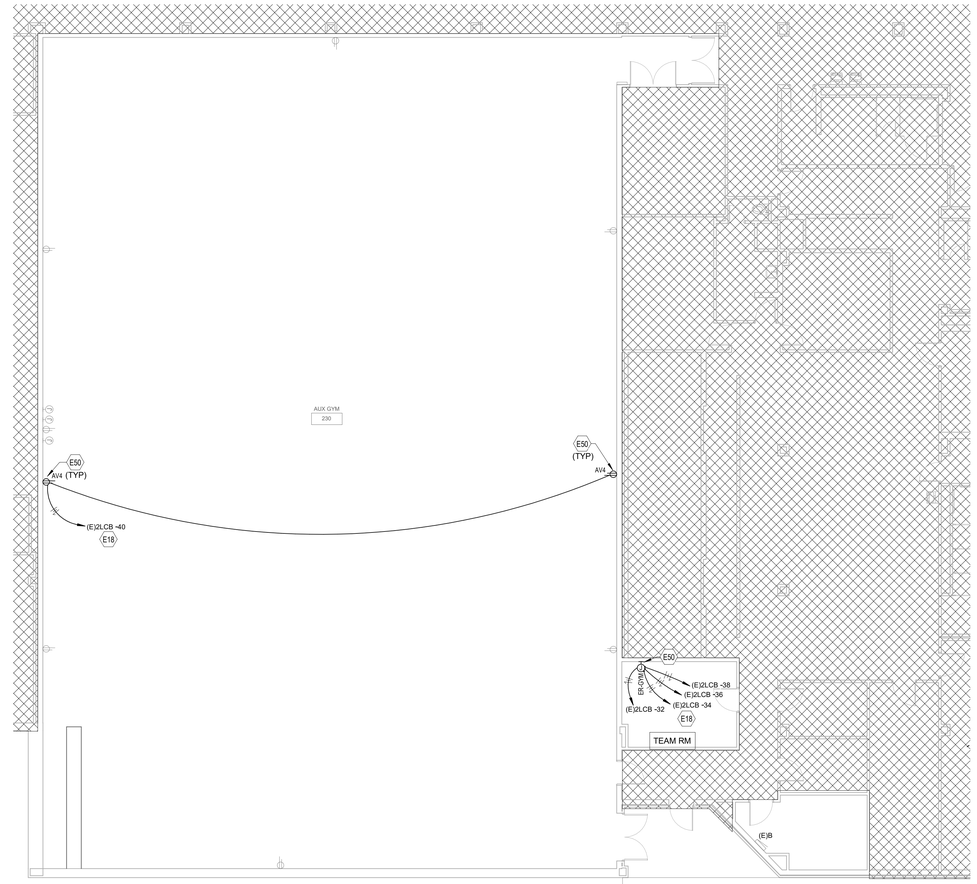
TAGGED NOTES (##)

E18	POWER FOR AV EQUIPMENT SHALL BE CIRCUITED TO EXISTING PANEL '2LCB' LOCATED IN SECOND FLOOR MECHANICAL ROOM 228. REFER TO OVERALL PLAN FOR SECOND FLOOR FOR PANEL LOCATION.
E50	PROVIDE ISOLATED GROUNDS FOR AV EQUIPMENT POWER. TYPICAL FOR ALL AV EQUIPMENT LOCATIONS.



1 LEVEL 1 - POWER FLOOR PLAN - AUX GYM
1/8" = 1'-0"

Kirksey ARCHITECTURE

Houston + Austin + Dallas

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713 850 9600

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STATE OF TEXAS
GEORGE JAMES OEHRLE
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2

SHEET TITLE

LEVEL 1 POWER FLOOR PLAN - AUX GYM

SHEET NUMBER

E2.35

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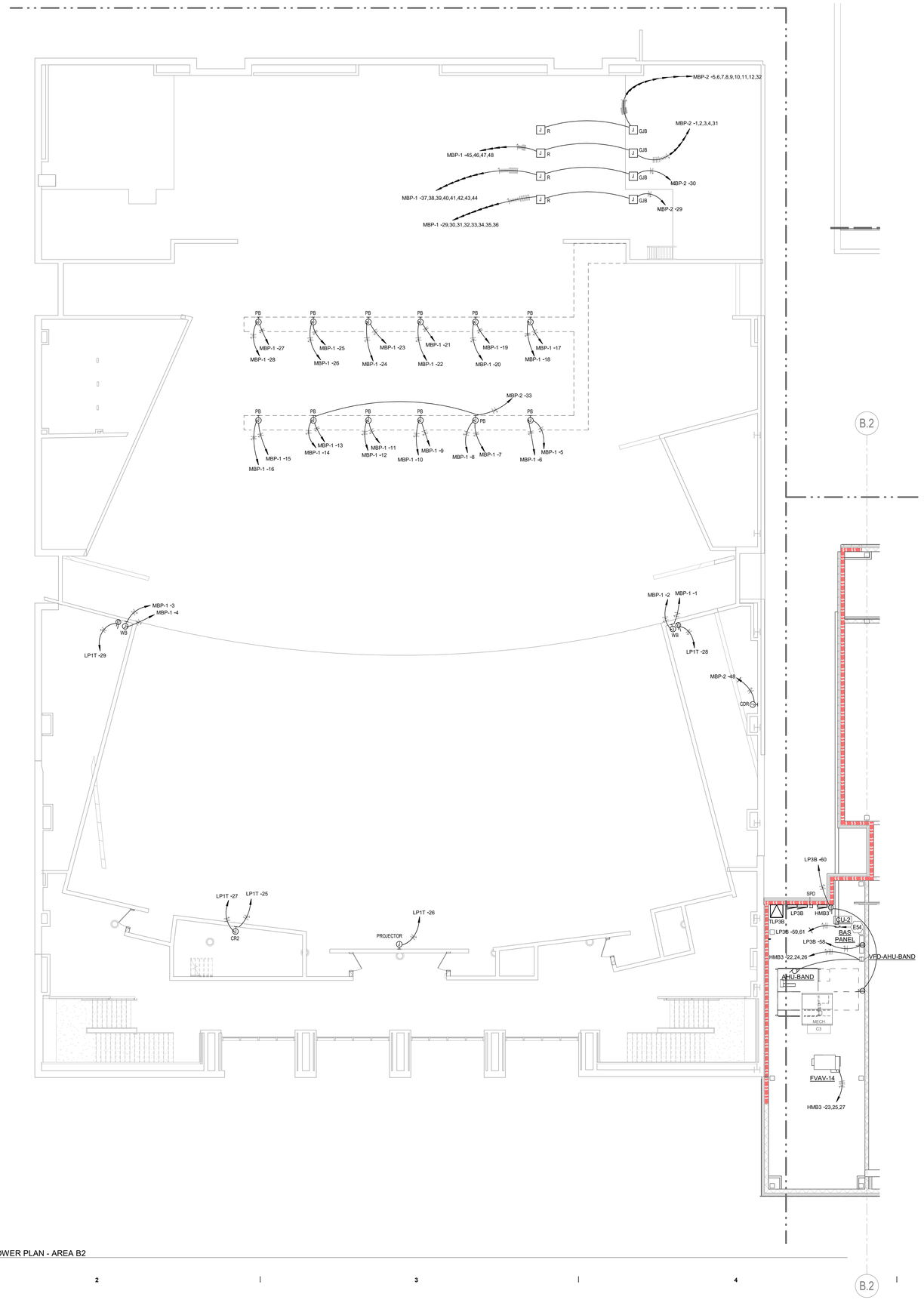

1 LEVEL 2 POWER PLAN - AREA B2
1/8" = 1'-0"

GENERAL NOTES (POWER):

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TAGGED NOTES (##)

E54 | PROVIDE 250V/30A/NF/2P/NEMA-1 HEAVY DUTY DISCONNECT SWITCH.

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STATE OF TEXAS — REGINA JAMIE EHRIT — 143727 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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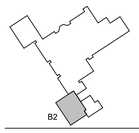
PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 POWER FLOOR PLAN - AREA B2

SHEET NUMBER

E2.36

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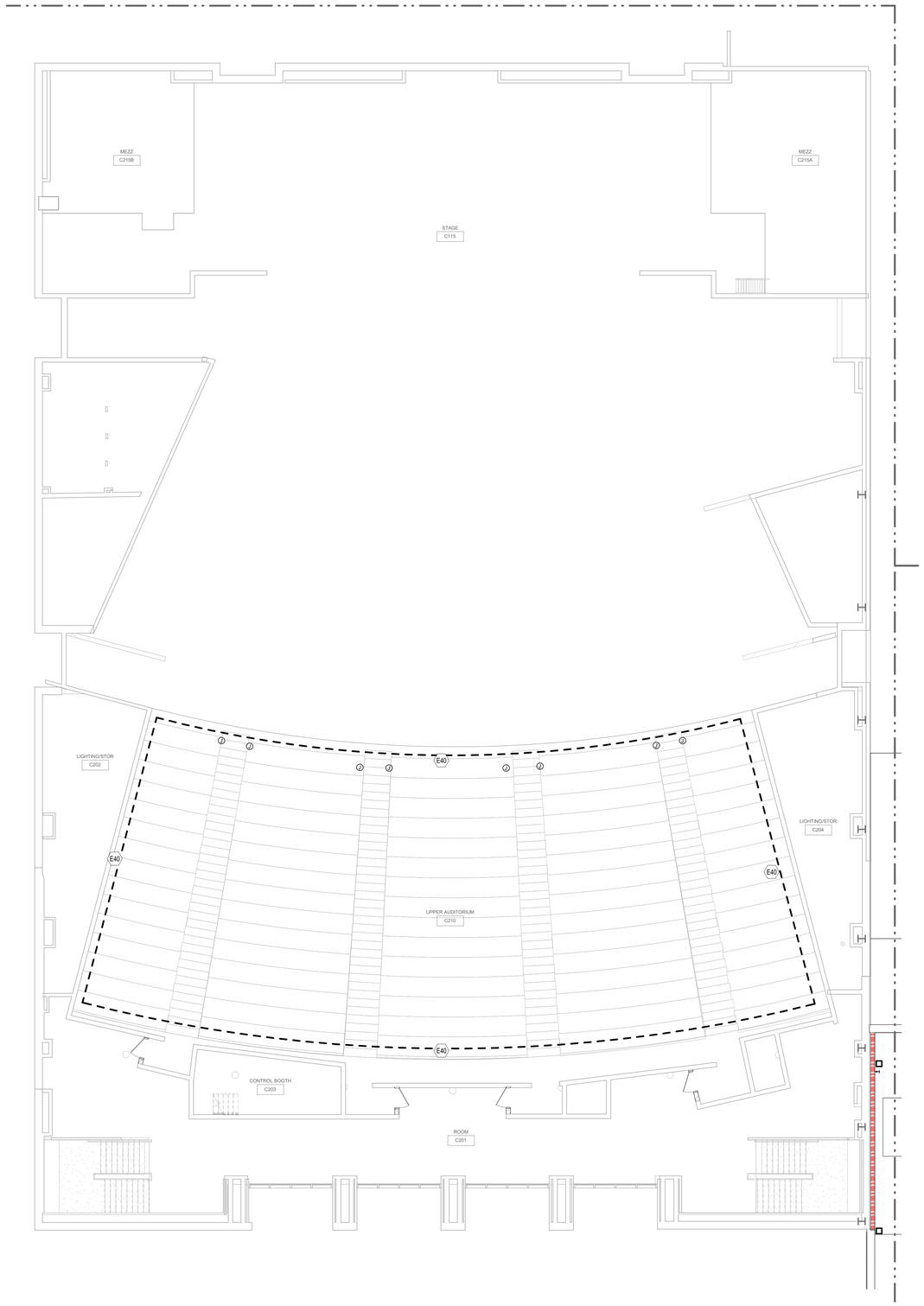

1 LEVEL 2 POWER - AREA B2 - ALTERNATE
1/8" = 1'-0"

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TAGGED NOTES

E40	ALTERNATE 4A: NEW SEATING WITH INTEGRAL LIGHTING FOR UPPER LEVEL WALKWAY TO BE ADDED. NEW FIXTURES SHALL BE CIRCUITED TO NEAREST 120V/208V PANEL.

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STATE OF TEXAS
GEORGE JAMES OEHRLE
103743
LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND 2025 BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

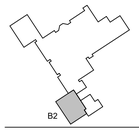
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 POWER FLOOR PLAN - AREA B2 - ALTERNATE

SHEET NUMBER

E2.36.A

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1 LEVEL 2 POWER PLAN - AREA F
1/8" = 1'-0"

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TAGGED NOTES (##)

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FORT BEND 2020 BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

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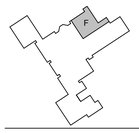

SHEET TITLE

LEVEL 2 POWER FLOOR PLAN - AREA F

SHEET NUMBER

E2.37

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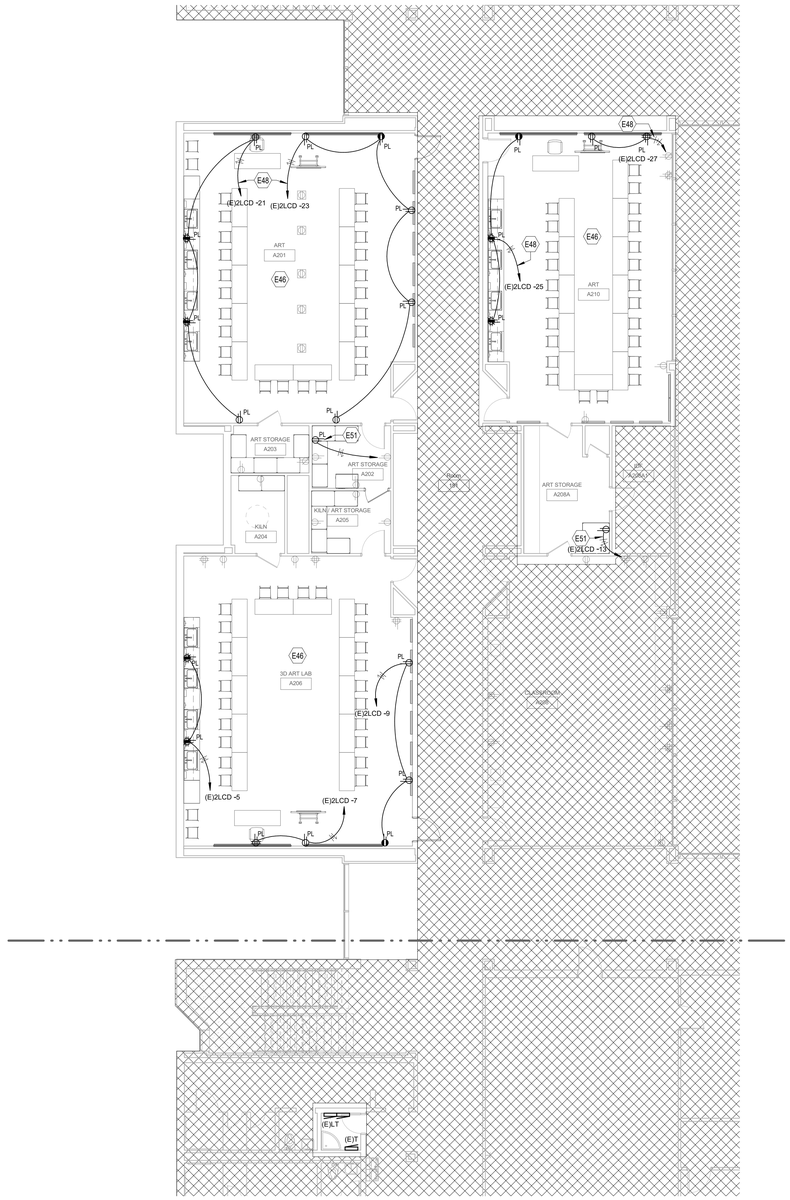
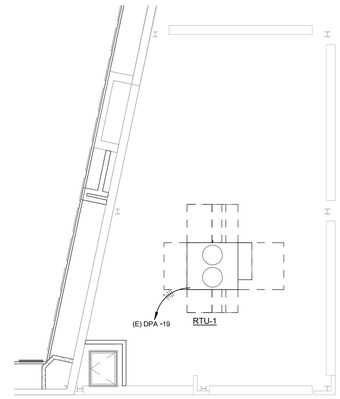
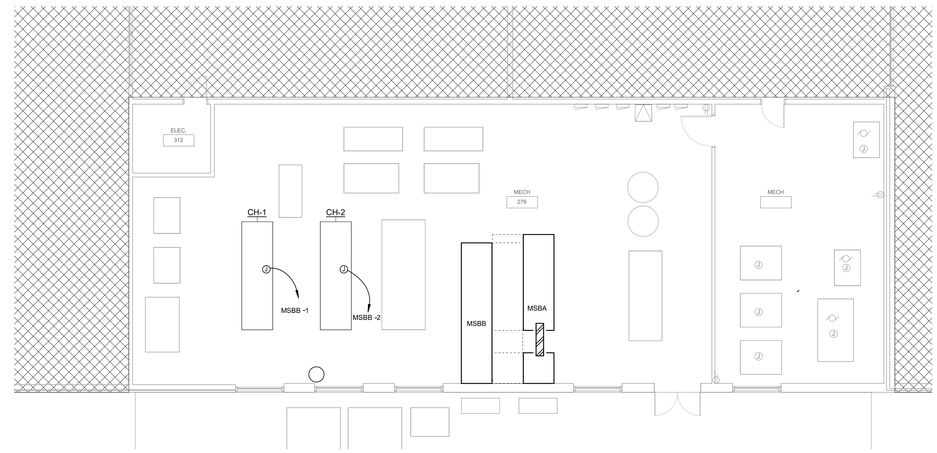


2 LEVEL 2 POWER PLAN - ART ROOMS
1/8" = 1'-0"



3 ROOF POWER PLAN - B1 ROOF
1/8" = 1'-0"



1 LEVEL 2 POWER PLAN - MECH
1/8" = 1'-0"

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TAGGED NOTES	##
E46	AT LEAST 50% OF ALL NEW RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, AND BREAKROOMS SHALL BE PLUG-LOAD CONTROLLED CONTROLLED BY ROOM CONTROLLER WITHIN ASSOCIATED ROOM, U.O.N. PLUG-LOAD CONTROLLED RECEPTACLES ARE DENOTED WITH 'PL'.
E48	EXISTING CIRCUITS SHALL BE REUSED FOR NEW RECEPTACLES IN THIS AREA.
E51	NEW RECEPTACLE SHALL BE CONNECTED TO EXISTING CIRCUIT.

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STATE OF TEXAS
REGINA JAMIE EHRIT
103
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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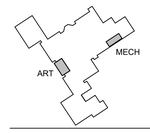
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 POWER FLOOR PLAN - ART ROOMS & MECH SPACES

SHEET NUMBER

E2.38

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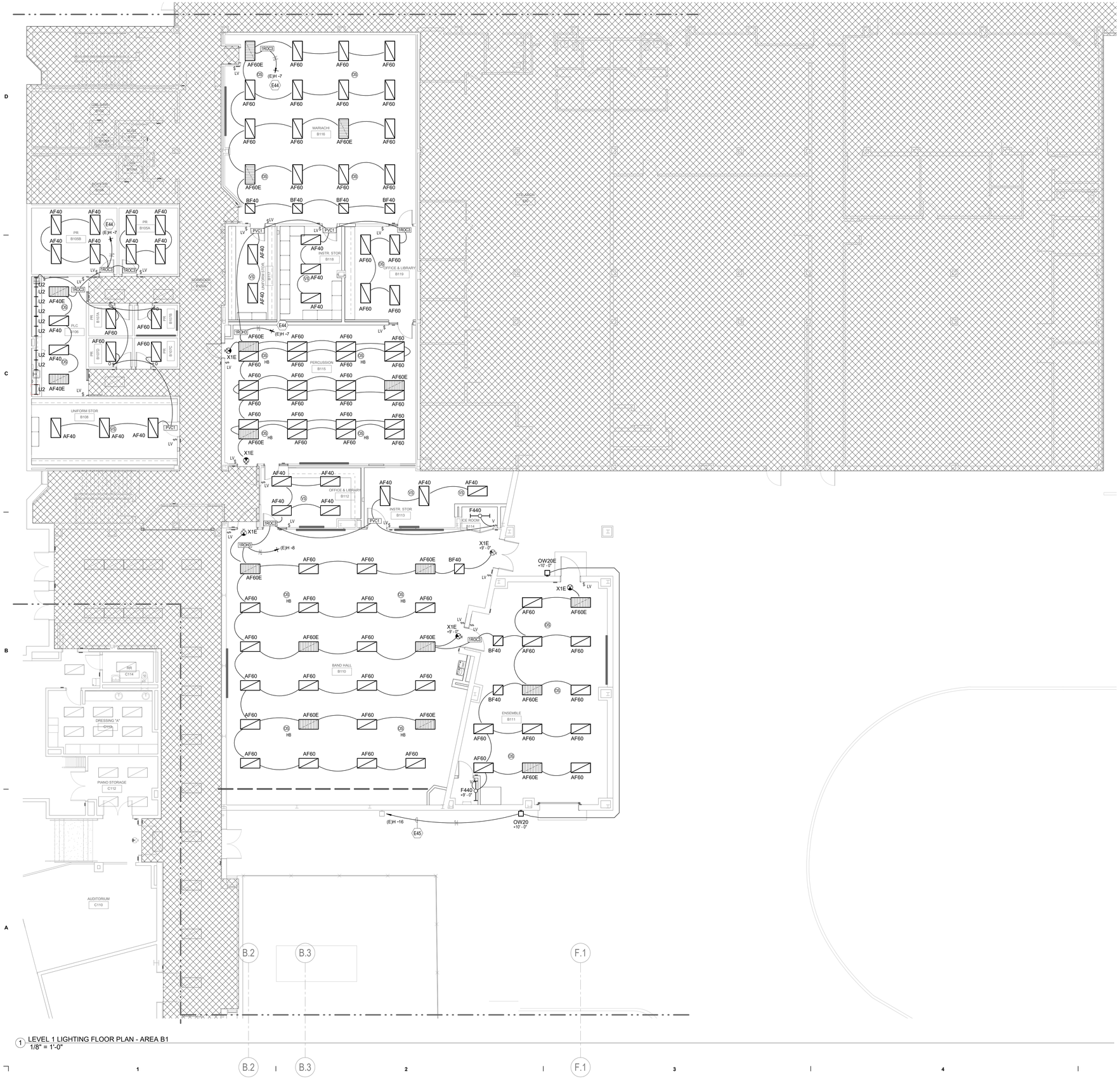

1 LEVEL 1 LIGHTING FLOOR PLAN - AREA B1
1/8" = 1'-0"

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C.

D. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C.#100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

G. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

H. PROVIDE UNSWITCHED CONDUCTOR FOR ALL LIGHTING CIRCUITS SERVING EMERGENCY LIGHTING, WHETHER OR NOT INDICATED BY TICK MARKS. WHERE EXIT SIGNS, EMERGENCY BATTERY PACKS, OR EMERGENCY CONTROL RELAYS ARE PROVIDED, CONNECT TO UNSWITCHED LINE(S) PER MANUFACTURER INSTRUCTIONS.

I. ALL LIGHTING FIXTURE OPTICS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT OPTICS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY OPTICS SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

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TAGGED NOTES	#
E44	EXISTING LIGHTING CIRCUIT SHALL BE REUSED FOR NEW LIGHTING IN THIS AREA.
E45	NEW EXTERIOR LIGHTING IN AREA B1 SHALL BE CONNECTED AND CONTROLLED WITH EXISTING EXTERIOR LIGHTING.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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STATE OF TEXAS
TERRENCE JAMES CHRIST
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

PROJECT NAME

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Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

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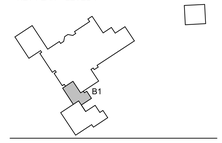

SHEET TITLE

LEVEL 1 LIGHTING FLOOR PLAN - AREA B1

SHEET NUMBER

E3.31

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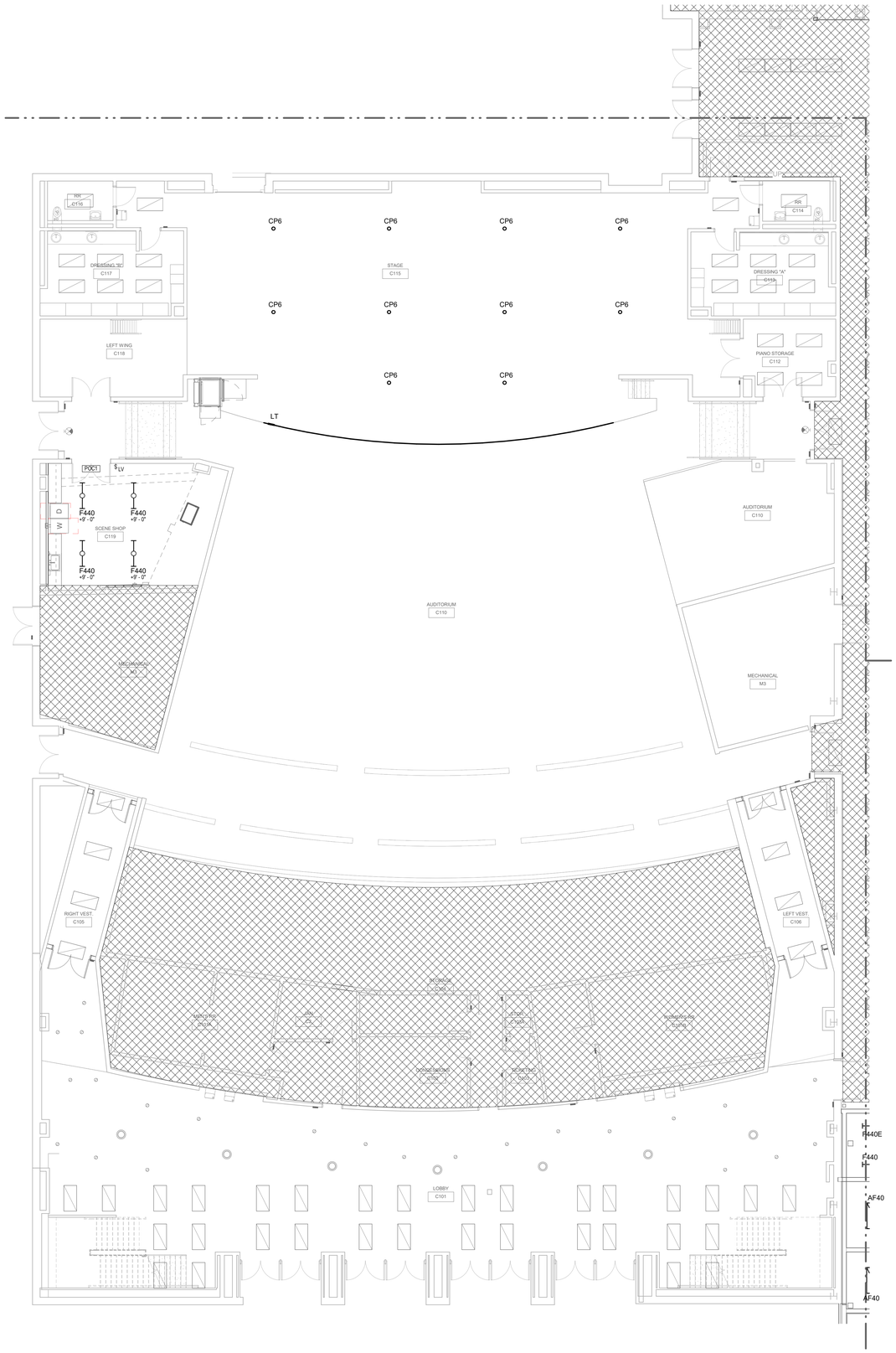

1 LEVEL 1 LIGHTING FLOOR PLAN - AREA B2
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TAGGED NOTES (#)

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Houston + Austin + Dallas

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STATE OF TEXAS — GEORGE JAMES EHRIT — 132 — REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

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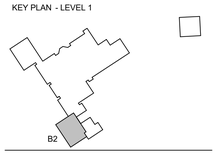
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 LIGHTING FLOOR PLAN - AREA B2

SHEET NUMBER

E3.32

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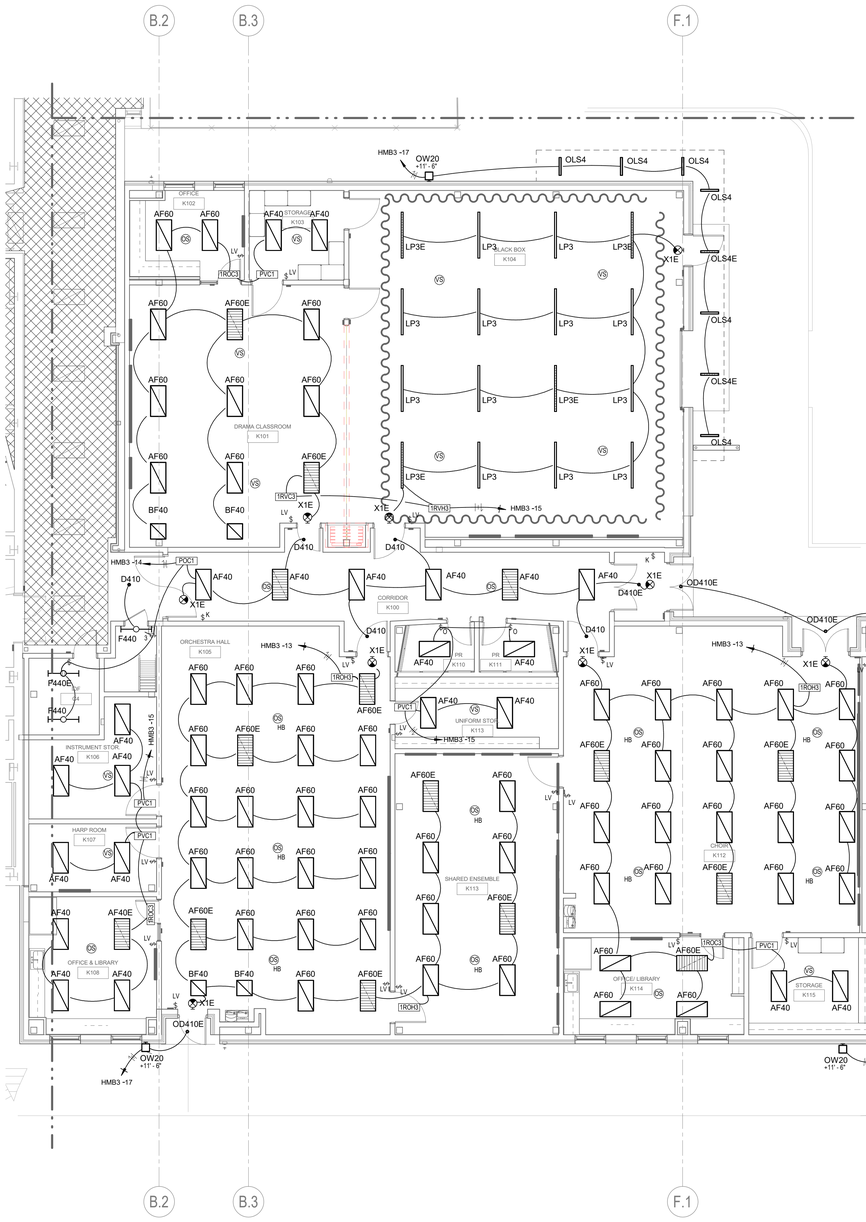
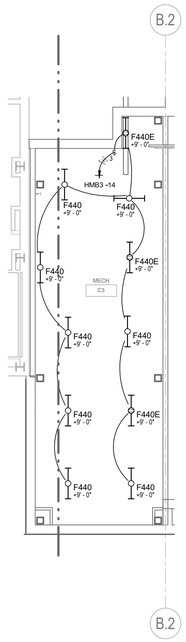


1 LEVEL 1 LIGHTING FLOOR PLAN - AREA B3
1/8" = 1'-0"



2 LEVEL 2 - LIGHTING PLAN - MECH C3
1/8" = 1'-0"

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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STATE OF TEXAS
REGINALD JAMES DEHRIG
CMTA F-8627
2025.09.16

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

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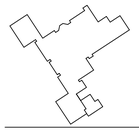
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 1 LIGHTING FLOOR PLAN - AREA B3

SHEET NUMBER

E3.33

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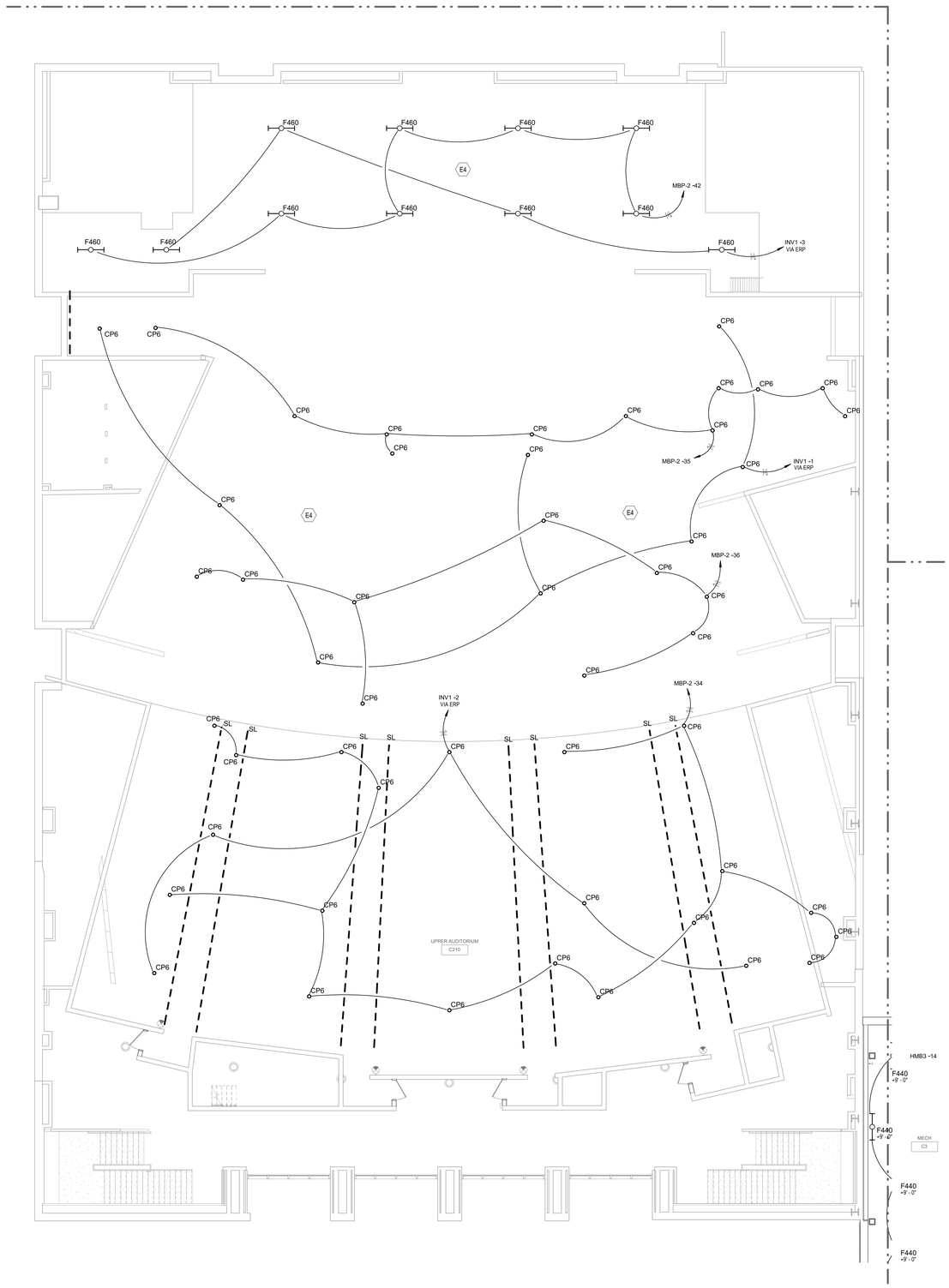

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TAGGED NOTES	(##)
E4	ALL THEATRICAL AND BACK OF HOUSE LIGHTING IN THE AUDITORIUM SHALL BE REMOVED AND REPLACED ONE-FOR-ONE.

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STATE OF TEXAS — REGINALD JAMES UEHRITZ — 129427 — LICENSED PROFESSIONAL ENGINEER

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2025.09.16

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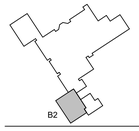

SHEET TITLE

LEVEL 2 LIGHTING FLOOR PLAN - AREA B2

SHEET NUMBER

E3.34

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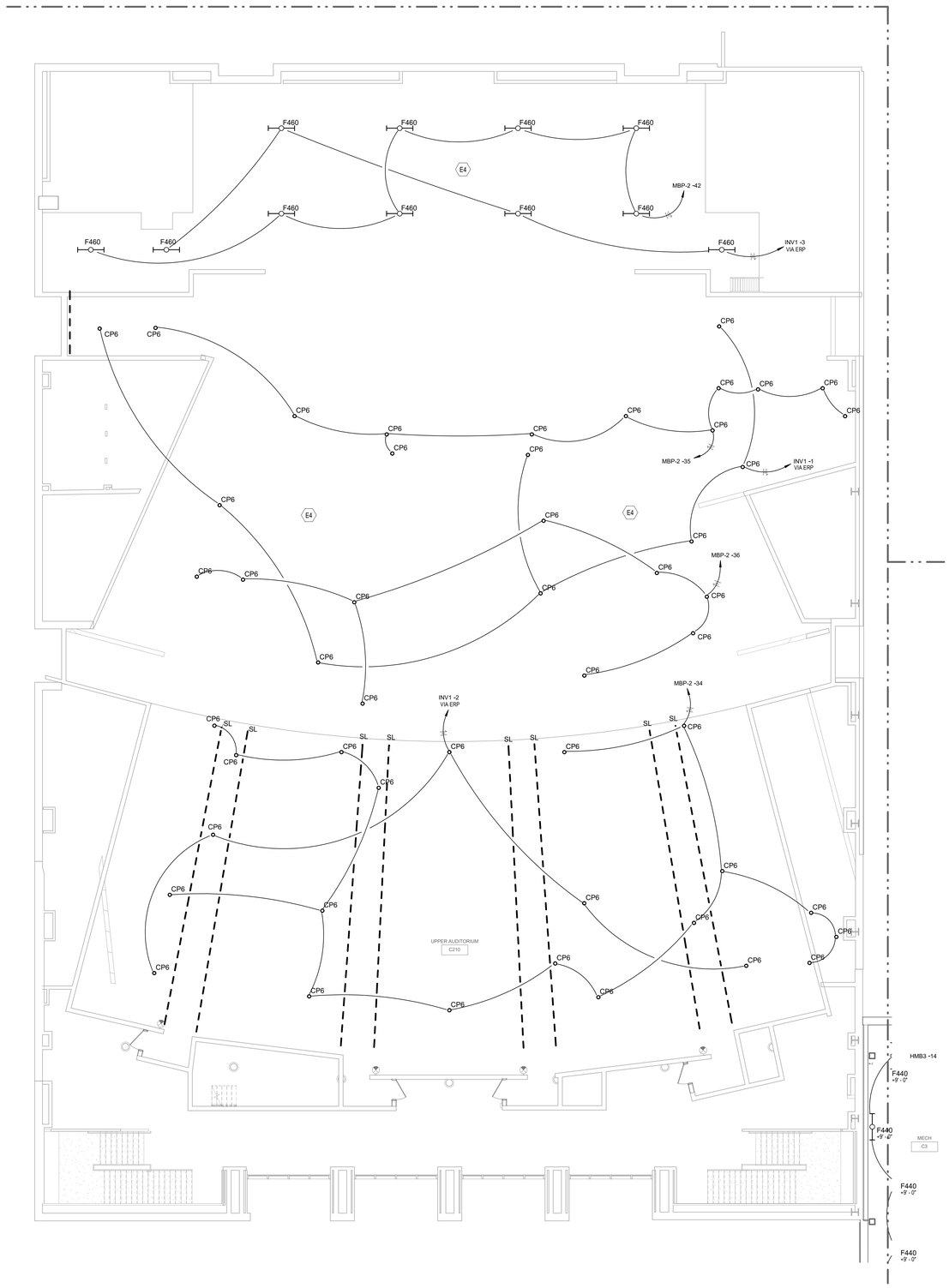

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G. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

H. PROVIDE UNSWITCHED CONDUCTOR FOR ALL LIGHTING CIRCUITS SERVING EMERGENCY LIGHTING, WHETHER OR NOT INDICATED BY TICK MARKS. WHERE EXIT SIGNS, EMERGENCY BATTERY PACKS, OR EMERGENCY CONTROL RELAYS ARE PROVIDED, CONNECT TO UNSWITCHED LINE(S) PER MANUFACTURER INSTRUCTIONS.

I. ALL LIGHTING FIXTURE OPTICS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT OPTICS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY OPTICS SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

J. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

TAGGED NOTES	(##)
E4	ALL THEATRICAL AND BACK OF HOUSE LIGHTING IN THE AUDITORIUM SHALL BE REMOVED AND REPLACED ONE-FOR-ONE.

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STATE OF TEXAS — REGINALD JAMES UEHRITZ — 129427 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

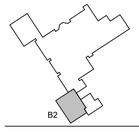
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 LIGHTING FLOOR PLAN - AREA B2

SHEET NUMBER

E3.34

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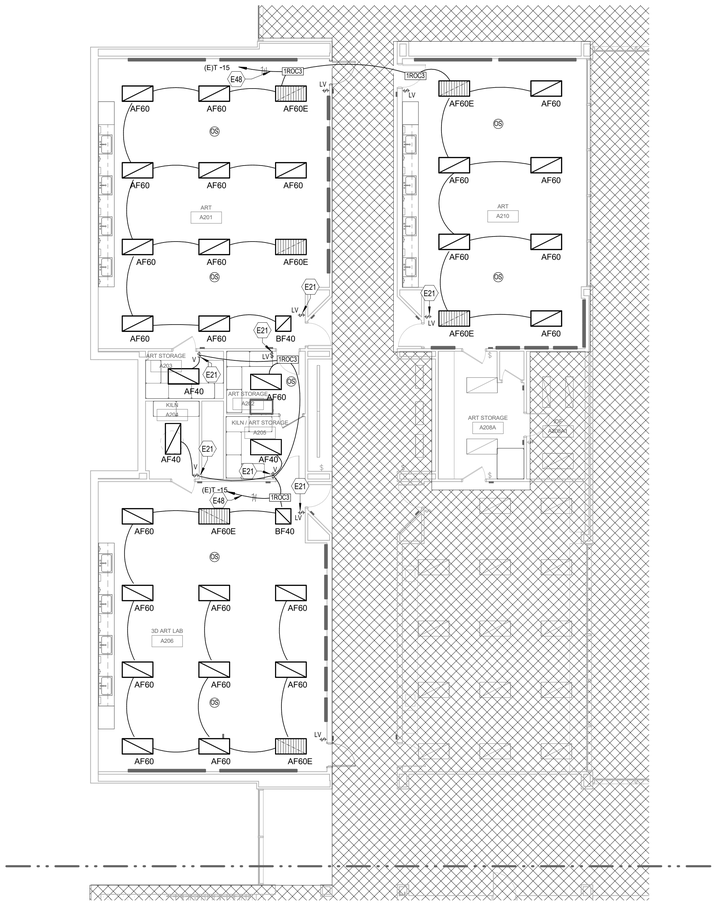
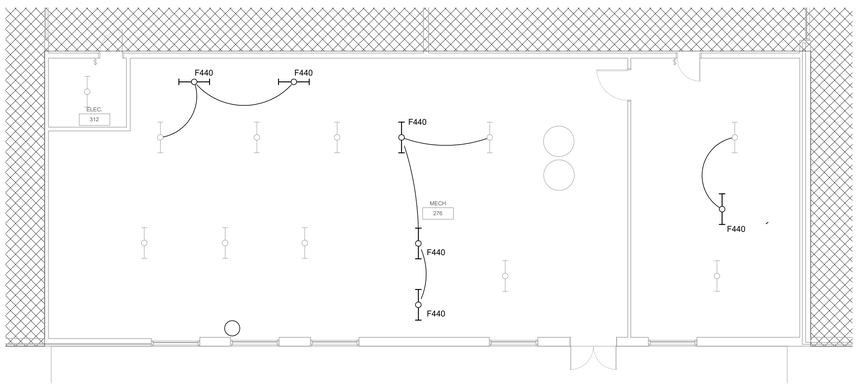


1 LEVEL 2 - LIGHTING PLAN - ART ROOMS
1/8" = 1'-0"



2 LEVEL 2 - LIGHTING PLAN - MECH
1/8" = 1'-0"

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING.

C. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C.

D. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING ON OUTSIDE OF COVER PLATE. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

G. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

H. PROVIDE UNSWITCHED CONDUCTOR FOR ALL LIGHTING CIRCUITS SERVING EMERGENCY LIGHTING, WHETHER OR NOT INDICATED BY TICK MARKS. WHERE EXIT SIGNS, EMERGENCY BATTERY PACKS, OR EMERGENCY CONTROL RELAYS ARE PROVIDED, CONNECT TO UNSWITCHED LINE(S) PER MANUFACTURER INSTRUCTIONS.

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TAGGED NOTES	##
E21	NEW LIGHT SWITCH SHALL BE LOCATED AT EXISTING SWITCH LOCATION.
E48	EXISTING CIRCUITS SHALL BE REUSED FOR NEW RECEPTACLES IN THIS AREA.

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STATE OF TEXAS
REGINA JAMIE OEHRIG
103-E
REGISTERED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

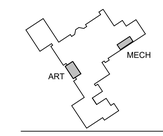
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 LIGHTING FLOOR PLAN - ART ROOM

SHEET NUMBER

E3.35

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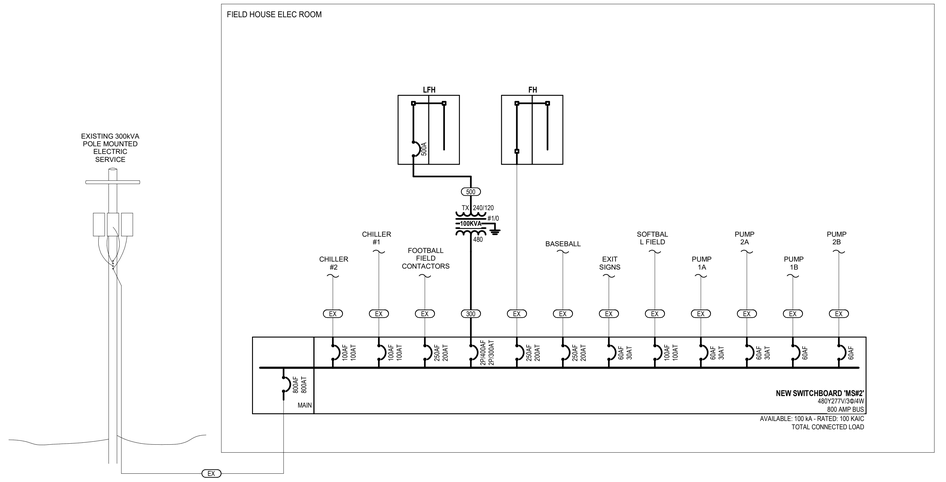
COPPER FEEDER SCHEDULE

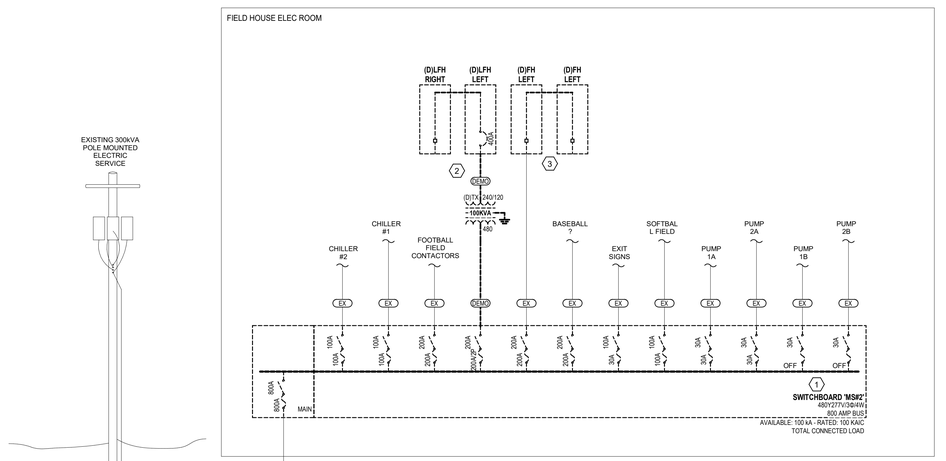
TAG	OCPD SETTING	1LINE FEEDER PARALLEL RUNS	PHASE CONDUCTORS	NEUTRAL	EQUIP. GROUND	CONDUIT SIZE	REMARKS
15N	15A	-	3#12	1#12 N	1#12 G	3/4" C	
20N	20A	-	3#12	1#12 N	1#12 G	3/4" C	
25NU	25A	-	3#10	1#10 N	1#10 G	1" C	NOTE 3
50	50A	-	3#6		1#10 G	1" C	
60N	60A	-	3#4	1#4 N	1#10 G	1-1/4" C	
70	70A	-	3#4		1#8 G	1-1/4" C	
70N	70A	-	3#4	1#4 N	1#8 G	1-1/4" C	
100N	100A	-	3#1	1#1 N	1#8 G	1-1/2" C	
100NT	100A	-	3#1	1#1 N	1#6 G	1-1/2" C	NOTE 6
150N	150A	-	3#1/0	1#1/0	1#6 G	2" C	
150NT	150A	-	3#2/0	1#2/0	1#4 G	2" C	NOTE 6
200N	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	
200NU	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	NOTE 3
300	300A	-	3#350KCM		1#4 G	2-1/2" C	
300N	300A	-	3#350KCM	1#350KCM N	1#4 G	2-1/2" C	
300NU	300A	-	3#350KCM	1#350KCM N	1#4 G	4" C	NOTE 3
400N	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	
400NU	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	NOTE 3
500	500A	2 SETS	3#250KCM		1#2 G	2-1/2" C	
500NT	500A	2 SETS	3#250KCM	1#250KCM N	1#2 G	2-1/2" C	NOTE 6

TAGGED NOTES:

1. EXISTING SWITCHBOARD SHALL BE REMOVED AND REPLACED. EXISTING LOADS SHALL BE RECONNECTED TO NEW BOARD.
2. EXISTING PANELS AND ASSOCIATED TRANSFORMER SHALL BE DEMOLISHED BACK TO SOURCE AND REPLACED.
3. EXISTING PANELS SHALL BE REMOVED AND REPLACED. EXISTING FEED SHALL BE EXTENDED AS NEEDED TO NEW PANEL.



2 PARTIAL ELECTRICAL ONE-LINE - FIELD HOUSE - NEW
NTS



1 PARTIAL ELECTRICAL ONE-LINE - FIELD HOUSE - DEMO
NTS

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C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND 2020 BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - FIELD HOUSE - DEMO AND NEW

SHEET NUMBER

E5.01

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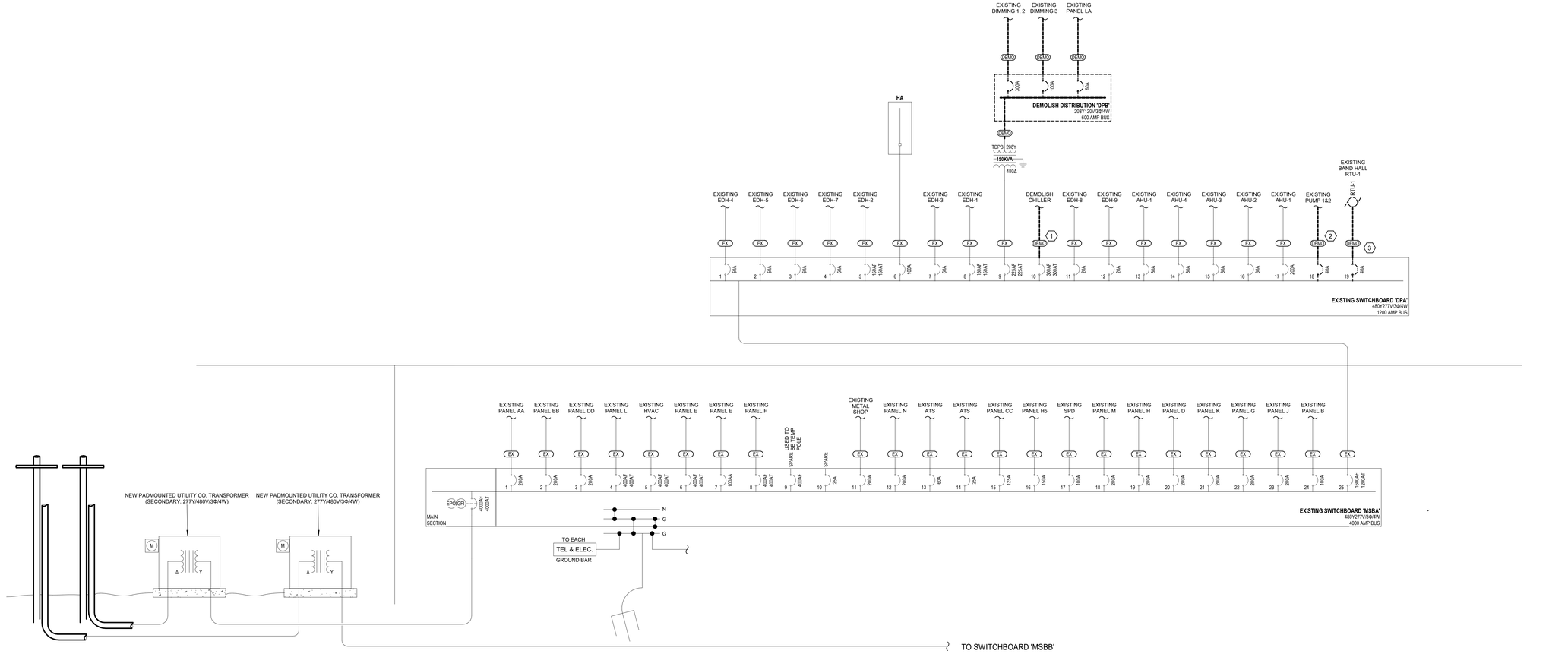

1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
1/8" = 1'-0"

TAGGED NOTES:

1. EXISTING CHILLER FEEDER AND CONNECTION SHALL BE DEMOLISH IN ALTERNATE. BREAKER SHALL BE RE-USED FOR NEW CHILLER.
2. EXISTING PUMPS FEEDER AND CONNECTION SHALL BE DEMOLISH IN ALTERNATE. EXISTING BREAKER SHALL BE DEMOLISH FOR NEW PUMPS.
3. EXISTING RTU-1 SHALL BE DEMOLISH.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020 2024

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - DEMO

SHEET NUMBER

E5.02

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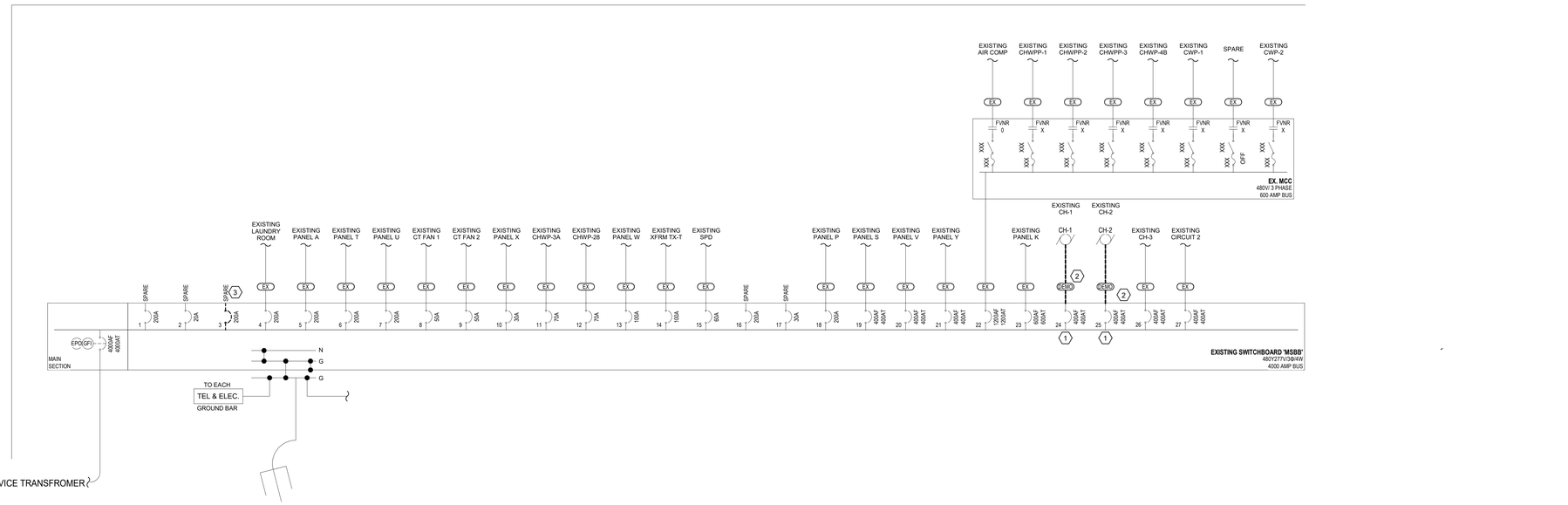
COPPER FEEDER SCHEDULE

TAG	OCPD SETTING	1LINE FEEDER PARALLEL RUNS	PHASE CONDUCTORS	NEUTRAL	EQUIP. GROUND	CONDUIT SIZE	REMARKS
15N	15A	-	3#12	1#12 N	1#12 G	3/4" C	
20N	20A	-	3#12	1#12 N	1#12 G	3/4" C	
25NU	25A	-	3#10	1#10 N	1#10 G	1" C	NOTE 3
50	50A	-	3#6		1#10 G	1" C	
60N	60A	-	3#4	1#4 N	1#10 G	1-1/4" C	
70	70A	-	3#4		1#8 G	1-1/4" C	
70N	70A	-	3#4	1#4 N	1#8 G	1-1/4" C	
100N	100A	-	3#1	1#1 N	1#8 G	1-1/2" C	
100NT	100A	-	3#1	1#1 N	1#6 G	1-1/2" C	NOTE 6
150N	150A	-	3#1/0	1#1/0	1#6 G	2" C	
150NT	150A	-	3#2/0	1#2/0	1#4 G	2" C	NOTE 6
200N	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	
200NU	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	NOTE 3
300	300A	-	3#350KCM		1#4 G	2-1/2" C	
300N	300A	-	3#350KCM	1#350KCM N	1#4 G	2-1/2" C	
300NU	300A	-	3#350KCM	1#350KCM N	1#4 G	4" C	NOTE 3
400N	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	
400NU	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	NOTE 3
500	500A	2 SETS	3#250KCM		1#2 G	2-1/2" C	
500NT	500A	2 SETS	3#250KCM	1#250KCM N	1#2 G	2-1/2" C	NOTE 6

1. THIS SCHEDULE IS BASED ON 60 DEGREE C WIRE (TYPE THW) AND TERMINATIONS FOR SIZES #12 AWG TO #1 AWG; AND 75 DEGREE C WIRE (TYPE THHN) AND TERMINATIONS FOR SIZES GREATER THAN #1/0 AWG. IF CONTRACTOR CHOOSES TO USE CONDUCTORS WITH LARGER DIAMETER, THE CONDUIT SIZES MUST BE REVISED ACCORDINGLY. CONDUIT SIZING IS BASED ON EMT CONDUIT UNLESS NOTED OTHERWISE.
2. THE NEUTRAL OF THE INDICATED FEEDER IS 200% OF THE AMPACITY OF THE INDIVIDUAL PHASE CONDUCTORS. FOR SIZES #1/0 AND LARGER, THE INDICATED FEEDER CONSISTS OF 2 CONDUCTORS IN EACH RACEWAY TERMINATED TO THE SAME LUG. MAKE CAREFUL SELECTION OF LUG AMPACITY AND NEUTRAL BUS SIZE DUE TO HARMONIC CURRENTS CARRIED BY THE NEUTRAL.
3. SIZED FOR SCHEDULE 40 PVC CONDUIT, DIRECT BURIED. IF CONCRETE ENCASED, CONDUCTOR SIZE WILL NEED TO BE INCREASED FOR DERATING.
4. SERVICE FEEDER IS SIZED TO BE A CONCRETE-ENCASED PVC DUCTBANK WITH MINIMUM 2-INCH CONCRETE ENCASEMENT AROUND CONDUITS.
5. WIRING SIZES INDICATED ARE INTENDED TO BE SIZED FOR A MAXIMUM 2% VOLTAGE DROP AS CALCULATED USING 80% OF THE SUPPLY BREAKER RATING AS THE LOAD. IF TAG IS INDICATED WITH AN *, THEN THE CONDUCTORS HAVE BEEN UPSIZED TO ACCOMMODATE VOLTAGE DROP.
6. SIZED FOR SECONDARY FEEDER OF GENERAL PURPOSE TRANSFORMER.
7. SIZED FOR SECONDARY FEEDER OF K-RATED OR HARMONIC-MITIGATING TRANSFORMER.

TAGGED NOTES:

1. BREAKER SHALL BE RE-USED FOR NEW CHILLERS. REFER TO PLAN FOR MORE INFORMATION.
2. DISCONNECT FEEDER FOR CHILLER BACK TO SOURCE. REFER TO NEW ONE-LINE FOR NEW FEEDER SIZE.
3. EXISTING SPARE BREAKER SHALL BE REMOVED AND REPLACED TO SERVE NEW PANEL.



1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
1/8" = 1'-0"

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STATE OF TEXAS — GEORGE JAMES EHRIT — 127 — REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

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FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBB - DEMO

SHEET NUMBER

E5.03

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COPPER FEEDER SCHEDULE

TAG	OCPD SETTING	1LINE FEEDER PARALLEL RUNS	PHASE CONDUCTORS	NEUTRAL	EQUIP. GROUND	CONDUIT SIZE	REMARKS
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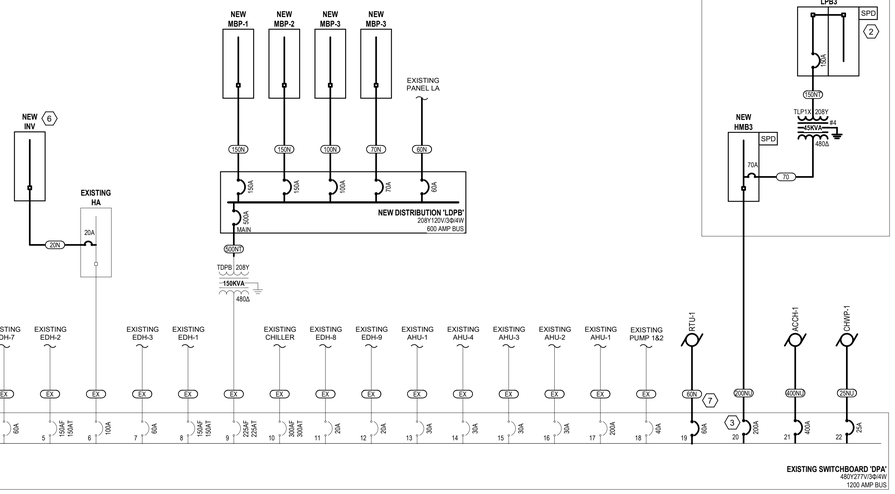
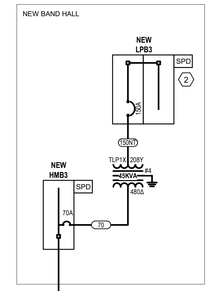
20N	20A	-	3#12	1#12 N	1#12 G	3/4" C	
25NU	25A	-	3#10	1#10 N	1#10 G	1" C	NOTE 3
50	50A	-	3#6		1#10 G	1" C	
60N	60A	-	3#4	1#4 N	1#10 G	1-1/4" C	
70	70A	-	3#4		1#8 G	1-1/4" C	
70N	70A	-	3#4	1#4 N	1#8 G	1-1/4" C	
100N	100A	-	3#1	1#1 N	1#8 G	1-1/2" C	
100NT	100A	-	3#1	1#1 N	1#6 G	1-1/2" C	NOTE 6
150N	150A	-	3#1/0	1#1/0	1#6 G	2" C	
150NT	150A	-	3#2/0	1#2/0	1#4 G	2" C	NOTE 6
200N	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	
200NU	200A	-	3#3/0	1#3/0 N	1#6 G	2" C	NOTE 3
300	300A	-	3#350KCM		1#4 G	2-1/2" C	
300N	300A	-	3#350KCM	1#350KCM N	1#4 G	2-1/2" C	
300NU	300A	-	3#350KCM	1#350KCM N	1#4 G	4" C	NOTE 3
400N	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	
400NU	400A	2 SETS	3#3/0	1#3/0 N	1#3 G	2" C	NOTE 3
500	500A	2 SETS	3#250KCM		1#2 G	2-1/2" C	
500NT	500A	2 SETS	3#250KCM	1#250KCM N	1#2 G	2-1/2" C	NOTE 6

TAGGED NOTES:

1. EXISTING PANEL 'LH' AND ASSOCIATED TRANSFORMER 'TX-H' SHALL BE REMOVED AND REPLACED. THREE (3) SPACES SHALL BE REMOVED AND REPLACED WITH NEW 480V/50A/3P BREAKER AT EXISTING PANEL 'H' TO SERVE NEW TRANSFORMER.
2. SURGE PROTECTION DEVICE (SPD) TYPE C UNIT FOR PANELABOARDS AS SPECIFIED (DIVISION 26). MOUNT UNIT TO SIDE OF PANELBOARD WITH A MAXIMUM 3' WIRE LEAD LENGTH.
3. PROVIDE NEW 480V/200A/3P BREAKER AT EXISTING DISTRIBUTION BOARD TO SERVE NEW BAND HALL.
4. PROVIDE ELECTRONIC TRIP BREAKERS.
5. PROVIDE THERMAL MAGNETIC CIRCUIT BREAKERS.
6. BATTERY INVERTER SHALL BE 5KVA EMERGI-LITE #6-FTE-5-SG-90-D-25-X OR APPROVED EQUAL.
7. NEW BREAKER FOR NEW RTU-1 ON THE BAND ROOF. REFER TO PLANS FOR MORE INFORMATION.





1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK BASE BID
1/8" = 1'-0"

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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STATE OF TEXAS — REGINALD JAMES EHRIT — 132 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND — INDEPENDENT SCHOOL DISTRICT — 2024

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - NEW

SHEET NUMBER

E5.04

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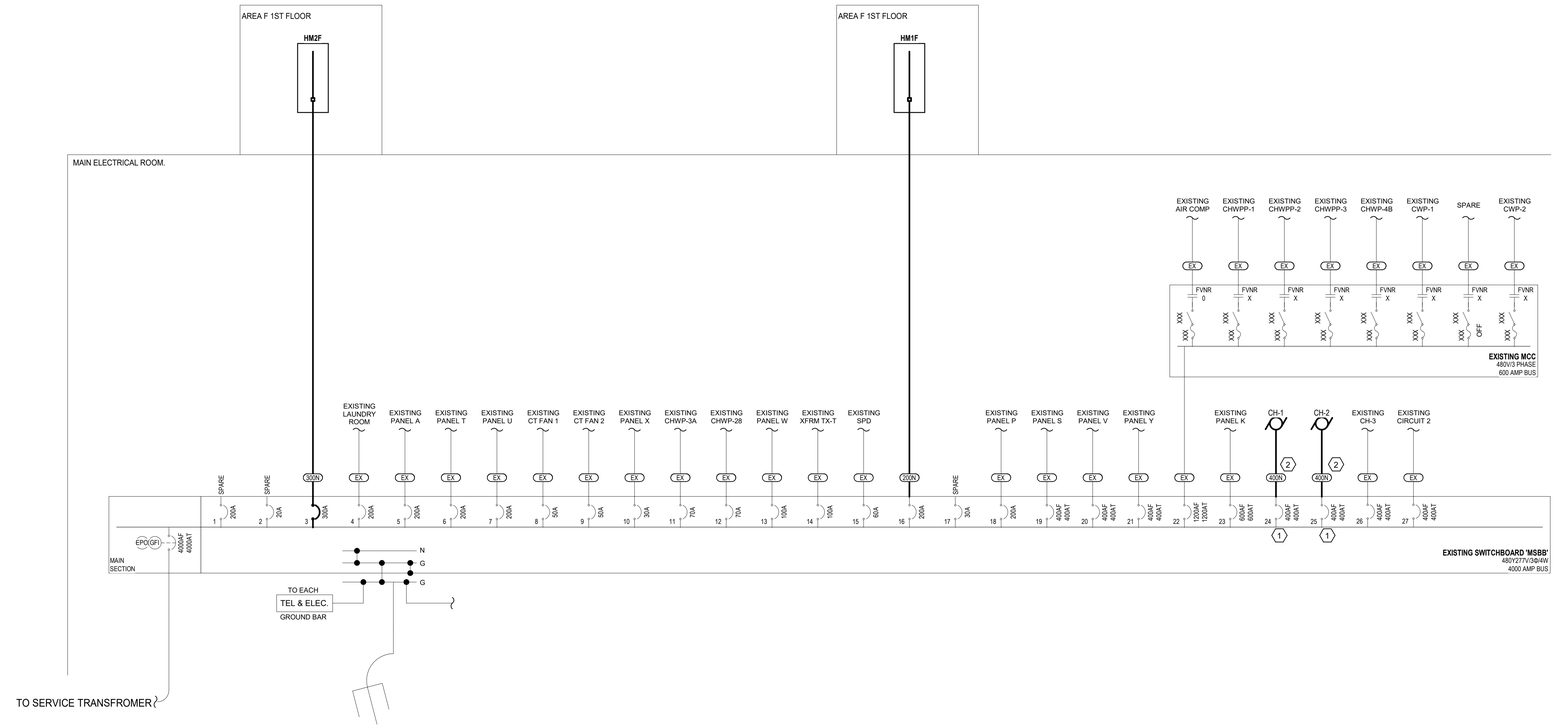
TAGGED NOTES:

1. NEW CIRCUIT FOR NEW CHILLER.
2. RE-USED EXISTING BREAKER FOR NEW CHILLER FEED.



1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
1/8" = 1'-0"

Kirksey ARCHITECTURE

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBB - NEW

SHEET NUMBER

E5.05

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9/22/2025 5:19:29 PM

TAGGED NOTES:

1. EXISTING PANEL 'LH' AND ASSOCIATED TRANSFORMER 'TX-H' SHALL BE REMOVED AND REPLACED. THREE (3) SPACES SHALL BE REMOVED AND REPLACED WITH NEW 480V/50A/3P BREAKER AT EXISTING PANEL 'H' TO SERVE NEW TRANSFORMER.
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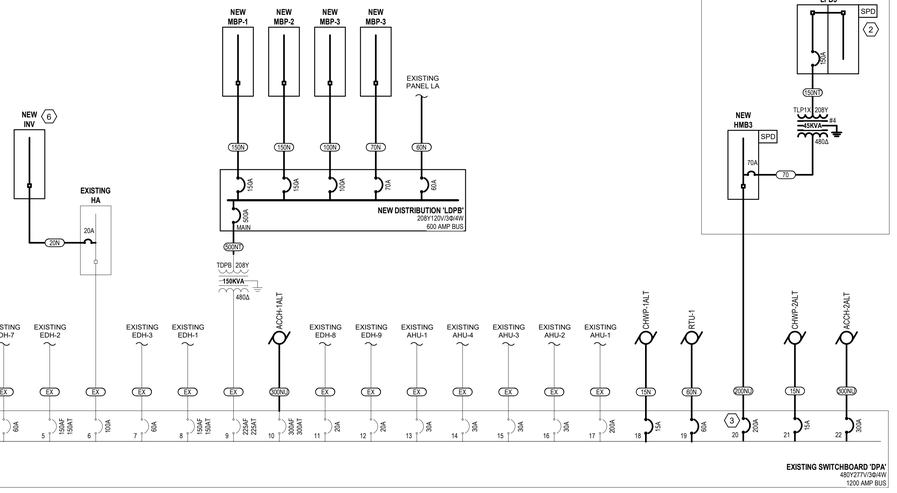
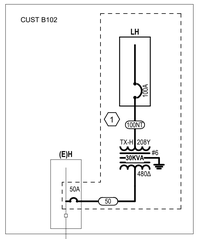
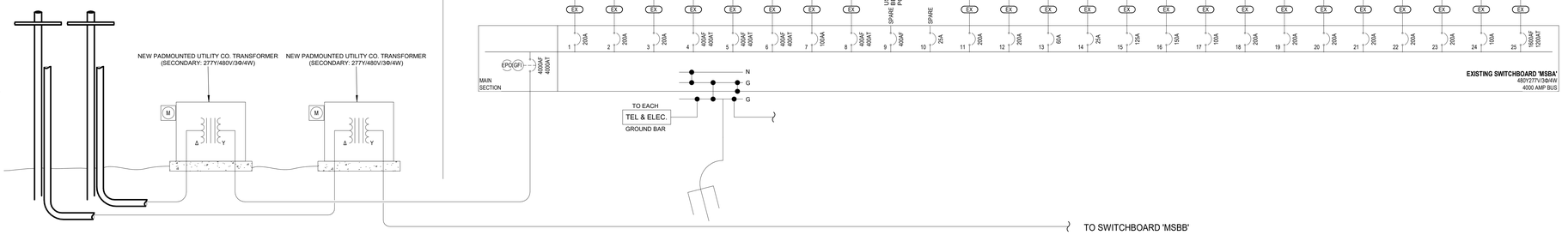
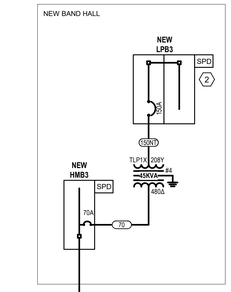
5. PROVIDE THERMAL MAGNETIC CIRCUIT BREAKERS.
6. BATTERY INVERTER SHALL BE 5KVA EMERGI-LITE #6-FTE-5-SG-90-D-25-X OR APPROVED EQUAL.







1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK BASE BID
1/8" = 1'-0"



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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PARTIAL ELECTRICAL ONE-LINE - SCHOOL MSBA - NEW ALT

SHEET NUMBER

E5.06

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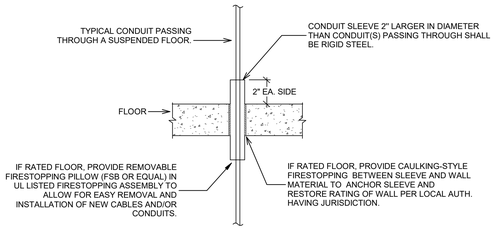
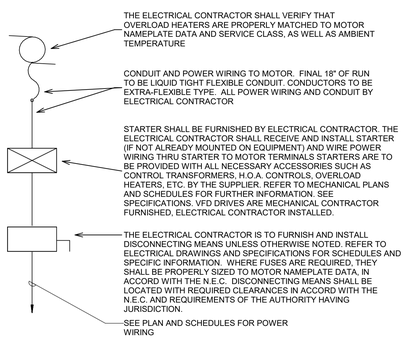


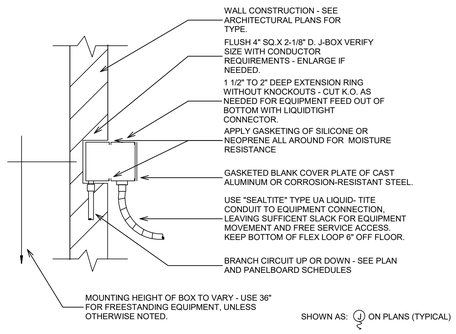
GENERAL FLOOR PENETRATION NOTES :

A. WHERE CONDUITS PENETRATE A FLOOR SLAB AND ARE EXPOSED, PROVIDE SQUARE 4" HIGH CONCRETEPAD AROUND CONDUIT SLEEVE AND EXTEND SLEEVE 4" ABOVE PAD.
B. WHERE CONDUITS OR SLEEVES PENETRATE FLOORS IN GROUPS, THE CONCRETE PAD SHOULD BE CONTINUOUS AROUND ALL CONDUITS OR SLEEVES.

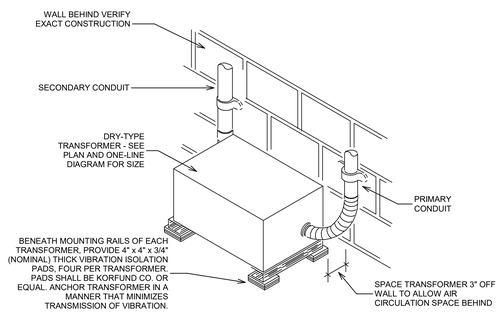
33 CONDUIT PENETRATION SLEEVE INSTALLATION
NTS



77 DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION
NTS



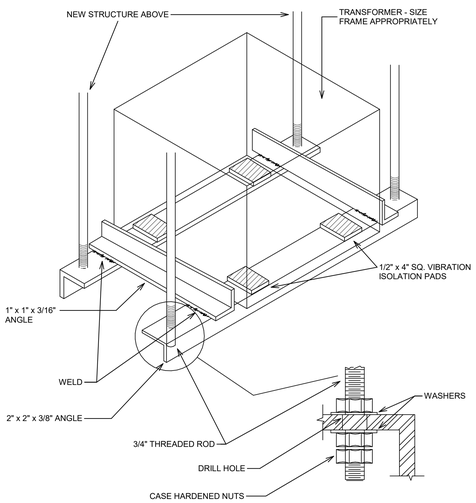
12 TYPICAL HARD-WIRED CONNECTION
NTS



NOTES:

A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.
B. ALL FLOOR - MOUNTED TRANSFORMERS 75KVA AND HIGHER TO HAVE A 4" HIGH REINFORCED CONCRETE PAD.

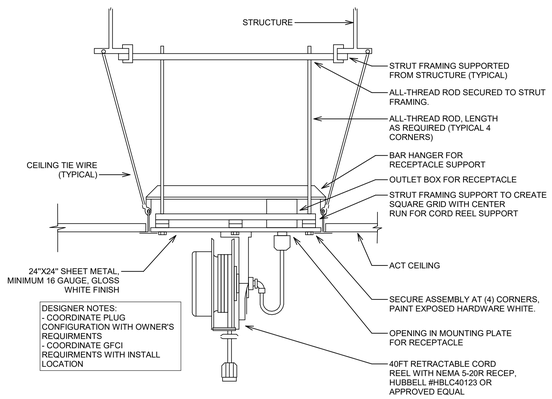
7 DETAIL OF TYPICAL DRY-TYPE TRANSFORMER INSTALLATION
NTS



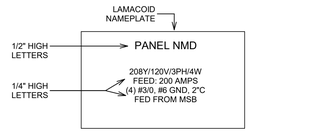
GENERAL NOTES

A. THIS DETAIL ONLY APPLIES TO DRY-TYPE TRANSFORMERS UP TO 45 KVA.

6 SUSPENDED DRY-TYPE TRANSFORMER INSTALLATION
NTS

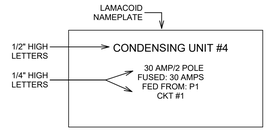


5 P-CORD REEL DETAIL-SUSPENDED CEILING
NTS



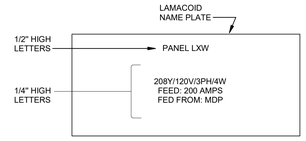
NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS. EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS. UTILIZE SCREW-ON LAMACOID PLATES.

4 PANEL & SWITCHBOARD NAMEPLATE DETAIL
NTS



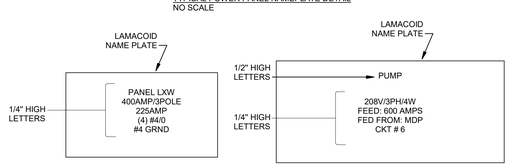
NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS. EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS. UTILIZE SKREW-ON LAMACOID PLATES.

3 DISCONNECT & STARTER NAMEPLATE DETAIL
NTS



NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL POWER PANEL NAMEPLATE DETAIL
NO SCALE



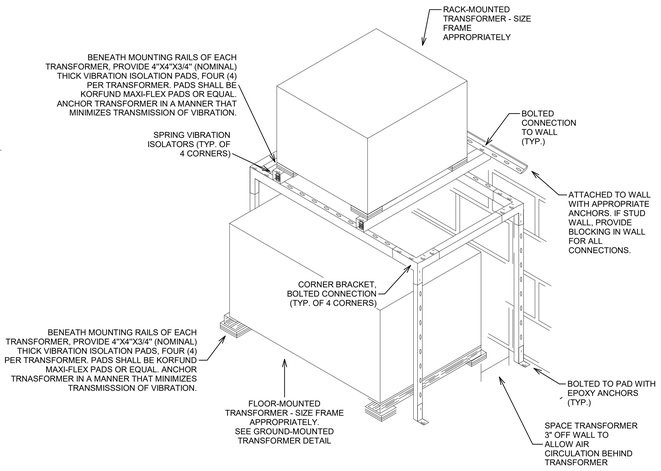
NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL SWITCHBOARD AND DISTRIBUTION PANELBOARD CIRCUIT LABEL NAMEPLATE DETAIL
NO SCALE

NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS UTILIZE SCREW-ON TYPE LAMACOID PLATES.

TYPICAL DISCONNECT AND COMBINATION STARTER/DISCONNECT NAMEPLATE DETAIL
NO SCALE

2 PANEL LABELING DETAILS
NTS



GENERAL NOTES :

A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.
B. REFER TO OTHER TRANSFORMER MOUNTING DETAILS FOR FURTHER REQUIREMENTS.
C. PROVIDE FRAME SIZE AS REQUIRED TO MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES ON ALL SIDES OF TRANSFORMER, 6" MINIMUM.
D. EXACT CONNECTIONS, ANCHORS, ETC. SHALL BE PER UNI-STRUT MANUFACTURER'S RECOMMENDATIONS.

1 TRANSFORMER RACK MOUNTED DETAIL
NTS

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E6.01

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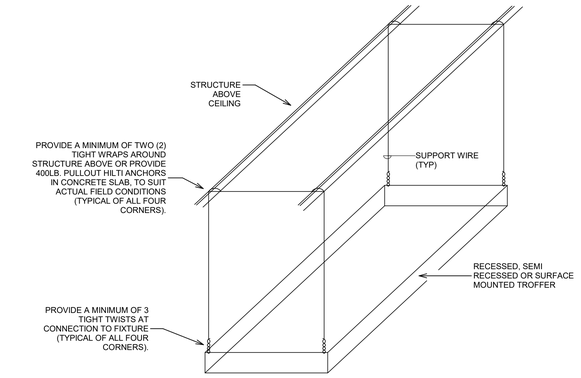
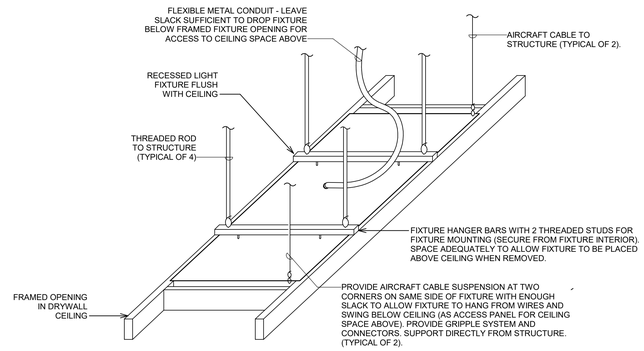


GENERAL TROFFER SUPPORT DETAIL NOTES:
A. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (12 GAGE).
B. ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

2 TROFFER SUPPORT DETAIL
NOT TO SCALE



NOTES:
A. COORDINATE ABOVE CEILING WORK WITH ALL TRADES TO ENSURE COMPONENTS ABOVE CEILING REQUIRING ACCESS ARE INSTALLED IN SUCH A WAY THAT THEY CAN BE ACCESSED THROUGH FIXTURE OPENING.
B. COMPLETE INSTALLATION SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 FIXTURE ACCESS IN DRYWALL CEILING DETAIL
NTS

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2025 BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E6.02

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LIGHTING CONTROL SCHEDULES - LINE VOLTAGE SWITCHES

TYPE	DESCRIPTION	SEQUENCE OF OPERATION	SWITCH	REMARKS
O	LINE VOLTAGE, WALL MOUNT, DUAL TECHNOLOGY OCCUPANCY SENSOR	1. AUTO "ON" AT 100% 2. AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.)	SWITCH: 1. Lutron #MS-B102-O-WH 2. Greengate #ONW-D-1001-MV 3. nLight #nWSX-PDT-LV 4. Sensor Switch #WSXA-PDT-XX	
V	LINE VOLTAGE, WALL MOUNT, DUAL TECHNOLOGY VACANCY SENSOR	1. MANUAL "ON" AT 100% 2. AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.)	SWITCH: 1. Lutron #MS-B102-V-WH 2. Greengate #VNW-D-1001-MV 3. nLight #nWSX-PDT-LV 4. Sensor Switch #WSXA-PDT-XX	

LIGHTING CONTROL SCHEDULES - POWER PACKS

TYPE	DESCRIPTION	SEQUENCE OF OPERATION	CONTROLLER	SENSOR	SWITCH	REMARKS
POC1	SINGLE ZONE POWER PACK WITH CEILING-MOUNTED OCCUPANCY SENSING	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" (WHERE INDICATED ON DRAWINGS) 2. OCCUPANCY SENSOR - AUTO "ON" AT 100% 3. OCCUPANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.)	POWER PACK: 1. Lutron #PP-DV 2. Greengate #SP20-RD4 3. nLight #nPP16-EFP	SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE MOMENTARY SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTR-CS-1 2. Greengate #GMDS 3. nLight #nPODM-XX	
PVC1	SINGLE ZONE POWER PACK WITH CEILING-MOUNTED VACANCY SENSING	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" 2. VACANCY SENSOR - MANUAL "ON" AT 100% 3. VACANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.)	POWER PACK: 1. Lutron #PP-DV-M 2. Greengate #SP20-RD4 3. nLight #nPP16-EFP-SA	SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE MOMENTARY SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTR-CS-1 2. Greengate #GMDS 3. nLight #nPODM-XX	

LIGHTING CONTROL SCHEDULES - ROOM CONTROLLERS

TYPE	DESCRIPTION	SEQUENCE OF OPERATION	CONTROLLER	SENSOR	SWITCH	REMARKS
1ROC3	SINGLE ZONE ROOM CONTROLLER WITH CEILING-MOUNTED OCCUPANCY SENSING AND MANUAL DIMMING. PLUG LOAD CONTROL.	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" 2. OCCUPANCY SENSOR - AUTO "ON" AT 50% 3. PLUG LOADS SHALL BE "ON" WITH LIGHTING 4. MANUAL 0-10V DIMMING FROM 10%-100% 5. OCCUPANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.), PLUG LOAD	ROOM CONTROLLER: 1. Lutron #PP-DV (2) 2. Greengate #RC3D-PL 3. nLight #nPP16-D-EFP-PA (2)	SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE DIM SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTSTV-WH 2. Greengate #RC-3TLB 3. nLight #NPODMA-DX-XX	
1ROH3	SINGLE ZONE ROOM CONTROLLER WITH CEILING-MOUNTED HIGH-BAY OCCUPANCY SENSING AND MANUAL DIMMING. PLUG LOAD CONTROL.	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" 2. HIGH-BAY OCCUPANCY SENSOR - AUTO "ON" AT 50% 3. PLUG LOADS SHALL BE "ON" WITH LIGHTING 4. MANUAL 0-10V DIMMING FROM 10%-100% 5. HIGH-BAY OCCUPANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.), PLUG LOAD	ROOM CONTROLLER: 1. Lutron #PP-DV (2) 2. Greengate #RC3D-PL 3. nLight #nPP16-D-EFP-PA (2)	HIGH-BAY SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE DIM SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTSTV-WH 2. Greengate #RC-3TLB 3. nLight #NPODMA-DX-XX	
1RVC3	SINGLE ZONE ROOM CONTROLLER WITH CEILING-MOUNTED VACANCY SENSING, MANUAL DIMMING, AND PLUG LOAD CONTROL.	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" 2. VACANCY SENSOR - MANUAL "ON" AT 100% 3. MANUAL 0-10V DIMMING FROM 10%-100% 4. VACANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.)	ROOM CONTROLLER: 1. Lutron #PP-DV (2) 2. Greengate #RC3D-PL 3. nLight #nPP16-D-EFP-PA (2)	SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE DIM SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTSTV-WH 2. Greengate #RC-3TLB 3. nLight #NPODMA-DX-XX	
1RVH3	SINGLE ZONE ROOM CONTROLLER WITH CEILING-MOUNTED HIGH-BAY VACANCY SENSING, MANUAL DIMMING, AND PLUG LOAD CONTROL.	1. LOW-VOLTAGE MOMENTARY SWITCH WILL TURN LIGHTS "ON/OFF" 2. VACANCY SENSOR - MANUAL "ON" AT 100% 3. MANUAL 0-10V DIMMING FROM 10%-100% 4. VACANCY SENSOR - AUTO "OFF" AFTER 20 MINUTE DELAY (ADJ.	ROOM CONTROLLER: 1. Lutron #PP-DV (2) 2. Greengate #RC3D-PL 3. nLight #nPP16-D-EFP-PA (2)	HIGH-BAY SENSOR (QUANTITY AS REQUIRED BY MANUFACTURER): 1. Lutron #LOS-CDT-2000-WH 2. Greengate #OAC-DT-1000-R 3. nLight #nCM-PDT-10	LOW-VOLTAGE DIM SWITCH (QUANTITY AS SHOWN): 1. Lutron #NTSTV-WH 2. Greengate #RC-3TLB 3. nLight #NPODMA-DX-XX	

LIGHT FIXTURE SCHEDULE - INTERIOR

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
AF40	2'X4' FLAT PANEL, MEDIUM LUMEN LEVEL.	METALUX #24CGTX-40-L840-CD	LITHONIA LIGHTING #CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT DAY-BRITE #2FPZ43L840-4-DS-UNV-DIM COLUMBIA LIGHTING #NBT24-40L042G-SF-ED1U	RECESSED	LED 4000K	4000	36	277	
AF40E	2'X4' FLAT PANEL, MEDIUM LUMEN LEVEL WITH INTEGRAL BATTERY BACKUP.	METALUX #24CGTX-40-EL14W-L840-CD	LITHONIA LIGHTING #CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT-E10W DAY-BRITE #2FPZ43L840-4-DS-UNV-DIM-EM10 COLUMBIA LIGHTING #NBT24-40L042G-SF-ED1U-ELL14	RECESSED	LED 4000K	4000	36	277	
AF60	2'X4' FLAT PANEL, HIGH LUMEN LEVEL.	METALUX #24CGTX-65-L840-CD	LITHONIA LIGHTING #CPX-2X4-6000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT DAY-BRITE #2FPZ66L840-4-DS-UNV-DIM COLUMBIA LIGHTING #NBT24-40L070G-SF-ED1U	RECESSED	LED 4000K	6000	54	277	
AF60E	2'X4' FLAT PANEL, HIGH LUMEN LEVEL WITH INTEGRAL BATTERY BACKUP.	METALUX #24CGTX-65-EL14W-L840-CD	LITHONIA LIGHTING #CPX-2X4-6000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT-E10W DAY-BRITE #2FPZ60L840-4-DS-UNV-DIM-EM10 COLUMBIA LIGHTING #NBT24-40L70G-SF-ED1U-ELL14	RECESSED	LED 4000K	6000	53	277	
BF40	2'X2' FLAT PANEL, MEDIUM LUMEN LEVEL.	METALUX #22CGTX-45-L840-CD	LITHONIA LIGHTING #CPX-2X2-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT DAY-BRITE #2FPZ45L840-2-DS-UNV-DIM COLUMBIA LIGHTING #NBT22-40L044G-SF-ED1U	RECESSED	LED 4000K	4000	43	277	
CP6	6" ROUND CYLINDER PENDANT WITH WIDE DISTRIBUTION, DMX DRIVER, AND STEM MOUNT.	PORTFOLIO #LER6D60DMXMB-EC6DR6059659040-6LBLI-P836MB-DMX-SPX	GOTHAM #IV06CYL-PC-D-60LM-40K-80CRI-WD-MIN10-MVOLT-DMX-L7-JBX-CAN-SX-P-AR-LSS-XXX LIGHTOLIER #C6PDL60940WDMXUCLB-CASK36BKX PRESCOLITE #LTC-6RD-PCC-60L40K8-WD-DMX-SSXX	PENDANT	LED 4000K	6000	67	120	
D410	4" RECESSED ROUND DOWNLIGHT WITH WIDE DISTRIBUTION AND SEMI-SPECULAR FINISH.	PORTFOLIO #LD4C109040D010-W0L1	GOTHAM #IV04-D-10LM-40K-80CRI-WD-MIN10-MVOLT-ZT-P-XX-LSS-F LIGHTOLIER #4RN-C4L10940WZ10U-C4RDLCL PRESCOLITE #LTR-4RD-H-SL-10L-DM1-LTR-4RD-T-SL40K8WD-SS-XX	RECESSED	LED 4000K	900	11	277	
D410E	4" RECESSED ROUND DOWNLIGHT WITH WIDE DISTRIBUTION, SEMI-SPECULAR FINISH AND INTEGRAL BATTERY BACKUP.	PORTFOLIO #LD4C109040D010EM-W0L1	GOTHAM #IV04-D-10LM-40K-80CRI-WD-MIN10-MVOLT-ZT-E7W-P-XX-LSS-F LIGHTOLIER #4RNEM6-C4L10940WZ10U-C4RDLCL PRESCOLITE #LTR-4RD-H-SL-10L-DM1-LTR-EM-4RD-T-SL40K8WD-SS-XX	RECESSED	LED 4000K	900	11	277	
F440	4' STRIP WITH SEMI-FROSTED LENS AND NARROW DISTRIBUTION. PROVIDE FIXTURE WITH CHAIN HANGER KIT.	METALUX #4SNLED-LD5-41SL-LN-UNV-L840-CD-1-AYC-CHAIN/SET	LITHONIA #ZL1D-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-WH-HC36 COLUMBIA LIGHTING #MPS4-40ML-CN-EDU-CSHC DAY-BRITE #FSS440L840-UNV-DIM-FKR-126	SUSPENDED	LED 4000K	4000	31	277	
F440E	4' STRIP WITH SEMI-FROSTED LENS AND NARROW DISTRIBUTION. PROVIDE FIXTURE WITH CHAIN HANGER KIT AND INTEGRAL BATTERY BACKUP.	METALUX #4SNLED-LD5-41SL-LN-UNV-EL14W-L840-CD-1-AYC-CHAIN/SET	LITHONIA #ZL1D-L48-SMR-4000LM-FST-MVOLT-40K-80CRI-WH-HC36-E10W COLUMBIA LIGHTING #MPS4-40ML-CN-EDU-CSHC-ELL14 DAY-BRITE #FSS440L840-UNV-DIM-FKR-126-EMLED	SUSPENDED	LED 4000K	4000	31	277	
F460	4' STRIP WITH SEMI-FROSTED LENS, NARROW DISTRIBUTION AND BLACK FINISH. PROVIDE FIXTURE WITH CHAIN HANGER KIT.	METALUX #4SNLED-LD5-61SL-LN-UNV-L840-CD-1-BLK-AYC-CHAIN/SET	#ZL1D-L48-SMR-7000LM-FST-MVOLT-40K-80CRI-MB-HC36 COLUMBIA LIGHTING #MPS4-40ML-CN-EDU-CSHC-MB DAY-BRITE #FSS470L840-UNV-DIM-FKR-126-BK	SUSPENDED	LED 4000K	6000	59	120	
LP3	3"X6' DIRECT LINEAR PENDANT FIXTURE WITH STEM MOUNT AND BLACK FINISH.	NEORAY #S123DP-C1165D840-S8-JB-6F0-1-U-DD-F-B	AXIS LIGHTING #TB3DLED-1100-80-40-SO-6'-BLK-UNV-DP-1-SASL LITECONTROL #3L-P-D-6'-06-SOF-C5-40K9-D110-D01-1C-UNV-FA1 PRUDENTIAL #PR03-LIN-FLSH-LED4-HO-6-XXX-SAL-NU-SC-RSC-X3-DM01	SUSPENDED	LED 4000K	1100LM/FT	64	277	
LP3E	3"X6' DIRECT LINEAR PENDANT FIXTURE WITH STEM MOUNT, BLACK FINISH, AND INTEGRAL BATTERY BACKUP.	NEORAY #S123DP-C1165D840-S8-JB-6F0-1B2-U-DD-F-B	AXIS LIGHTING #TB3DLED-1100-80-40-SO-6'-BLK-UNV-DP-1-E(1)-SASL LITECONTROL #3L-P-D-6'-06-SOF-C5-40K9-D110-D01-1C-UNV-FA1-EF PRUDENTIAL #PR03-LIN-FLSH-LED4-HO-6-XXX-SAL-NU-SC-RSC-X3-DM01-EMHE	SUSPENDED	LED 4000K	1100LM/FT	64	277	
LT	STAGE EDGE TAPE LIGHT.	ACCLAIM LIGHTING #F2B-226-XAXN-ALD-400-24-C2	APPROVED EQUALS	RECESSED	LED 4000K	100LM/FT	4	120	
SL	THEATRICAL STRIP LIGHTING FOR UPPER LEVEL WALKWAYS.		APPROVED EQUALS	RECESSED			37	277	
U2	2' UNDERCAB LIGHTING.	FAIL-SAFE #UCL-1-LD2-LD4-40-89BW-EDC1-UNV	KENALL #AUCLED-I-XX-1140K-24-277 PRIMUS #FC7-L-4K-DO-UNV-SW277-X-2' APPROVED EQUAL	SURFACE	LED 4000K	500	17	277	
X1E	UNIVERSAL MOUNT EXIT SIGN WITH INTEGRAL BATTERY BACKUP.	SURE-LITES #LPX7	LITHONIA LIGHTING #LQM-S-W-3-R-120/277-M6-ELN CHLORIDE #VERWEM COMPASS #CER		LED		2	277	

PROVIDE A 10 WARRANTY. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

LIGHT FIXTURE SCHEDULE - EXTERIOR

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
OD410E	EXTERIOR 4" RECESSED ROUND DOWNLIGHT WITH WIDE DISTRIBUTION, SEMI-SPECULAR FINISH AND INTEGRAL BATTERY BACKUP.	PORTFOLIO #LD4C109040D010EM-W0L1	GOTHAM #IV04-D-10LM-40K-80CRI-WD-MIN10-MVOLT-ZT-E7W-P-XX-LSS-F LIGHTOLIER #4RNEM6-C4L10940WZ10U-C4RDLCL PRESCOLITE #LTR-4RD-H-SL-10L-DM1-LTR-EM-4RD-T-SL40K8WD-SS-XX	RECESSED	LED 4000K	1000	11	277	FIXTURE SHALL HAVE INTEGRAL BATTERY BACKUP.
OLS4	EXTERIOR LINEAR SURFACE FIXTURE. REFER TO LIGHTING PLANS FOR REQUIRED LINEAR LENGTH.	NULITE #RXT-R-D-FF-03-L-40-UNV-D-1-X	AXIS LIGHTING #EX4S-400-80-40-SO-X-UNV-DP-1-S PRUDENTIAL #WETBPRO3-LIN-FLSH-LED4-LO-X-SAL-SC-UNV-SUR-DM01 LITECONTROL #3W-S-D-X'-XX-SOFW-C1-40K9-D030-D01-1C-UNV	SURFACE	LED 4000K	300LM/FT	30	277	
OLS4E	EXTERIOR LINEAR SURFACE FIXTURE WITH INTEGRAL BATTERY BACKUP. REFER TO LIGHTING PLANS FOR REQUIRED LINEAR LENGTH.	NULITE #RXT-R-D-FF-03-L-40-UNV-D-1B10-X	AXIS LIGHTING #EX4S-400-80-40-SO-X-UNV-DP-1-S-EX PRUDENTIAL #WETBPRO3-LIN-FLSH-LED4-LO-X-SAL-SC-UNV-SUR-DM01-EMC LITECONTROL #3W-S-D-X'-XX-SOFW-C1-40K9-D030-D01-1C-UNV-EF	SURFACE	LED 4000K	300LM/FT	30	277	FIXTURE SHALL HAVE INTEGRAL BATTERY BACKUP.
OW20	EXTERIOR LOW-PROFILE WALL MOUNT.	LUMARK #AXCS3A-XX	LITHONIA LIGHTING #WPX1-LED-P2-40K-MVOLT-XXX BEACON #RWL1-48L-20-4K7-3-UNV-XXX GARDCO EQUAL	WALL	LED 4000K	2000	23	277	
OW20E	EXTERIOR LOW-PROFILE WALL MOUNT WITH INTEGRAL BATTERY BACKUP.	LUMARK #AXCS3A-XX-CBP	LITHONIA LIGHTING #WPX1-LED-P2-40K-MVOLT-E4WH-XXX BEACON #RWL1-48L-20-4K7-3-UNV-XXX-EH GARDCO EQUAL	WALL	LED 4000K	2000	23	277	FIXTURE SHALL HAVE INTEGRAL BATTERY BACKUP.

PROVIDE A 10 WARRANTY. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

STATE OF TEXAS — REGINALD JAMES EHRTZ — 124111 — LICENSED PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LIGHTING SCHEDULES

SHEET NUMBER

E7.01

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9/22/2025 5:19:34 PM

Autodesk Docs://2023306 Willowridge High School/HWFR23_MEP_CMTA_R24.rvt

PANELBOARD AND WIRING SCHEDULE

PANEL: LFH
VOLTAGE: 120/240V,1P,3W
AMPERES: 500 A
MAINS TYPE: 500A MCB
SPD: No
MOUNTING: SURFACE
AVAILABLE FAULT CURRENT:
PANEL INTERRUPTING RATING:
LOCATION: FIELD HOUSE MECH
SUPPLY FROM: TX

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		CKT	B		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E)FH 135	--	--	--	20	1	1	0.0	0.0				2	1	20	--	--	--	(E)FH 129
(E)FH 135	--	--	--	20	1	3			0.0	0.0		4	1	20	--	--	--	(E)FH 130
(E)FH 131	--	--	--	20	1	5	0.0	0.0				6	2	20	--	--	--	(E)DRYER
(E)FH 131	--	--	--	20	1	7			0.0	0.0		8						
(E)PUMP	--	--	--	20	2	9	0.0	0.0				10	2	50	--	--	--	(E)HEATER
						11			0.0	0.0		12						
(E)CE MACHINE	--	--	--	20	2	13	0.0	0.0				14	1	20	--	--	--	(E)LOAD
						15			0.0	0.0		16	1	20	--	--	--	(E)LOAD
(E)FH 105	--	--	--	20	1	17	0.0	0.0				18	2	20	--	--	--	(E)RR-01
(E)FH 105	--	--	--	20	1	19			0.0	0.0		20						
(E)RR-02	--	--	--	20	2	21	0.0	0.0				22	1	20	--	--	--	(E)LOAD
						23			0.0	0.0		24	1	20	--	--	--	(E)LOAD
(E)FH 105	--	--	--	20	1	25	0.0	0.0				26	1	20	--	--	--	(E)LOAD
(E)PUMP	--	--	--	20	1	27			0.0	0.0		28	1	20	--	--	--	(E)FA
(E)FH 132A	--	--	--	20	1	29	0.0	0.0				30	1	20	--	--	--	(E)FOOTBALL
(E)FH 132A	--	--	--	20	1	31			0.0	0.0		32	1	20	--	--	--	(E)SOFTBALL
(E)FH 132A	--	--	--	20	1	33	0.0	0.0				34	1	20	--	--	--	(E)SOFTBALL
(E)AIR COMPRESSOR	--	--	--	20	1	35			0.0	0.0		36	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	37	0.0	0.0				38	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	39			0.0	0.0		40	1	20	--	--	--	(E)FH 102
(E)LOAD	--	--	--	20	1	41	0.0	0.0				42	1	20	--	--	--	(E)FH 102
(E)EF A5	--	--	--	20	1	43			0.0	0.0		44	1	20	--	--	--	(E)LOAD
(E)EF A2	--	--	--	20	1	45	0.0	0.0				46	1	20	--	--	--	(E)LOAD
(E)EF A3	--	--	--	20	1	47			0.0	0.0		48	1	20	--	--	--	(E)LOAD
(E)EF A4	--	--	--	20	1	49	0.0	0.0				50	1	20	--	--	--	(E)LOAD
(E)EF A1	--	--	--	20	1	51			0.0	0.0		52	1	20	--	--	--	(E)LOAD
(E)EF A6	--	--	--	20	1	53	0.0	0.0				54	1	20	--	--	--	(E)LOAD
(E)C-1	--	--	--	20	1	55			0.0	0.0		56	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	57	0.0	0.0				58	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	59			0.0	0.0		60	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	61	0.0	0.0				62	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	63			0.0	0.0		64	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	65	0.0	0.0				66	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	67			0.0	0.0		68	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	69	0.0	0.0				70	1	20	--	--	--	(E)LOAD
IF-1	10	10		25	2	71			1.4	0.0		72	1	20	--	--	--	SPARE
						73	1.4	0.0				74	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	75			0.0	0.0		76	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	77	0.0	0.0				78	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	79			0.0	0.0		80	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	81	0.0	0.0				82	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	83			0.0	0.0		84	1	20	--	--	--	SPARE
							TOTAL LOAD (kVA):		1.4 kVA		1.4 kVA						
							TOTAL CURRENT (A):		12 A		12 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	2880 VA	100.00%	2880 VA	TOTAL CONNECTED LOAD:	2880 VA
				TOTAL ESTIMATED DEMAND:	2880 VA
				TOTAL CONNECTED CURRENT:	12 A
				TOTAL ESTIMATED DEMAND CURRENT:	12 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: FH
VOLTAGE: 480Y/277V,3P,4W
AMPERES: 400 A
MAINS TYPE: MLO
SPD: No
MOUNTING: SURFACE
AVAILABLE FAULT CURRENT:
PANEL INTERRUPTING RATING:
LOCATION: FIELD HOUSE MECH
SUPPLY FROM: MSI#2

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	7.3	13.0					2						
DH-FH-1	8	10		35	3	3			7.3	13.0			4	3	60	1-1/4	10	4	DH-FH-2
						5					7.3	13.0	6						
						7	16.3	14.3					8						
DH-FH-3	3	8	1-1/4	80	3	9			16.3	14.3			10	3	70	1-1/4	8	4	DH-FH-4
						11					16.3	14.3	12						
						13	9.7	0.0					14						
DH-FH-5	6	10	1	45	3	15			9.7	0.0			16	3	30	--	--	--	(E)LOAD
						17					9.7	0.0	18						
(E)LOAD	--	--	--	20	1	19	0.0	0.0					20	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	21			0.0	0.0			22	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	(E)LOAD
(E)LOAD	--	--	--	20	1	25	0.0	0.0					26	1	20	--	--	--	(E)LOAD
SPARE	--	--	--	20	1	27			0.0	0.0			28	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	SPARE
						31	0.0	0.0					32						
(E)AHU-1	--	--	--	20	3	33			0.0	0.0			34	3	20	--	--	--	(E)AHU-2
						35					0.0	0.0	36						
						37	0.0	0.0					38						
(E)AHU-3	--	--	--	20	3	39			0.0	0.0			40	3	20	--	--	--	(E)AHU-4
						41					0.0	0.0	42						
						43	0.0	0.0					44						
(E)AHU-5	--	--	--	20	3	45			0.0	0.0			46	3	60	--	--	--	(E)PRESSBOX
						47					0.0	0.0	48						
(E)RM 118, 119, 120, 121, 122 & 123	--	--	--	20	1	49	0.0	0.0					50						
(E)RM 115	--	--	--	20	1	51			0.0	0.0			52	3	60	--	--	--	(E)PRESSBOX
(E)RM 114	--	--	--	20	1	53					0.0	0.0	54						
(E)LGT OUTSIDE	--	--	--	20	1	55	0.0	0.0					56						
(E)LGT OUTSIDE	--	--	--	20	1	57			0.0	0.0			58	3	30	--	--	--	(E)PUMP
SPARE	--	--	--	20	1	59					0.0	0.0	60						
SPARE	--	--	--	20	1	61	0.0	--					62	1	--	--	--	--	SPACE
SPARE	--	--	--	20	1	63			0.0	--			64	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	65					--	--	66	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	67	--	--					68	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	69			--	--			70	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	71					--	--	72	1	--	--	--	--	SPACE
							TOTAL LOAD (kVA):		60.7 kVA		60.7 kVA		60.7 kVA					
							TOTAL CURRENT (A):		219 A		219 A		219 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HEAT	182000 VA	100.00%	182000 VA	TOTAL CONNECTED LOAD:	182000 VA
				TOTAL ESTIMATED DEMAND:	182000 VA
				TOTAL CONNECTED CURRENT:	219 A
				TOTAL ESTIMATED DEMAND CURRENT:	219 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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STATE OF TEXAS — GEORGE JAMES EHRIT — 124157 — REGISTERED PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E7.02

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Autodesk Docs://2023306 Willowridge High School/HWFR23_MEP_CMTA_R24.rvt

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PANELBOARD AND WIRING SCHEDULE

PANEL: MBP-1 | **VOLTAGE:** 208Y/120V,3P,4W | **AMPERES:** 150 A | **MAINS TYPE:** MLO | **SPD:** Yes | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** MECHANICAL M3 | **SUPPLY FROM:** (E)DPB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
WB AD201				20	1	1	0.5	0.5		2	1	20				WB AD201
WB AD202				20	1	3		0.5	0.5	4	1	20				WB AD202
PB AD203				20	1	5			0.5	0.5	6	1	20				PB AD203
PB AD204				20	1	7	0.5	0.5		8	1	20				PB AD204
PB AD205				20	1	9		0.5	0.5	10	1	20				PB AD205
PB AD206				20	1	11			0.5	0.5	12	1	20				PB AD206
PB AD207				20	1	13	0.5	0.5		14	1	20				PB AD207
PB AD208				20	1	15		0.5	0.5	16	1	20				PB AD208
PB AD209				20	1	17			0.5	0.5	18	1	20				PB AD209
PB AD210				20	1	19	0.5	0.5		20	1	20				PB AD210
PB AD211				20	1	21		0.5	0.5	22	1	20				PB AD211
PB AD212				20	1	23			0.5	0.5	24	1	20				PB AD212
PB AD213				20	1	25	0.5	0.5		26	1	20				PB AD213
PB AD214				20	1	27		0.5	0.5	28	1	20				PB AD214
R AD301				20	1	29			0.5	0.5	30	1	20				R AD301
R AD301				20	1	31	0.5	0.5		32	1	20				R AD301
R AD301				20	1	33		0.5	0.5	34	1	20				R AD301
R AD301				20	1	35			0.5	0.2	36	1	20				R AD301
R AD303				20	1	37	0.5	0.5		38	1	20				R AD303
R AD303				20	1	39		0.5	0.5	40	1	20				R AD303
R AD303				20	1	41			0.5	0.5	42	1	20				R AD303
R AD303				20	1	43	0.5	0.2		44	1	20				R AD303
R AD305				20	1	45		0.5	0.5	46	1	20				R AD305
R AD305				20	1	47			0.5	0.2	48	1	20				R AD305
							TOTAL LOAD (kVA):	7.7 kVA	8.0 kVA	7.4 kVA							
							TOTAL CURRENT (A):	64 A	67 A	61 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	23040 VA	100.00%	23040 VA	TOTAL CONNECTED LOAD:	23040 VA
				TOTAL ESTIMATED DEMAND:	23040 VA
				TOTAL CONNECTED CURRENT:	64 A
				TOTAL ESTIMATED DEMAND CURRENT:	64 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)H | **VOLTAGE:** 480Y/277V,3P,4W | **AMPERES:** 200 A | **MAINS TYPE:** MLO | **SPD:** | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** CUST. B102 | **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) SPARE	--	--	--	30	2	1	0.0	0.0		2	1	20	--	--	--	(E) LOAD
						3			0.0	0.0	4	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	5			0.0	0.0	6	1	20	--	--	--	(E) LOAD
MARIACHI/STOR LTG				20	1	7	3.6	2.4		8	1	20				BAND HALL/ENSEMBLE LTG
(E) LOAD	--	--	--	20	1	9		0.0	0.0	10	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	11			0.0	0.0	12	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	13	0.0	0.0		14	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	15		0.0	0.1	16	1	20				(E)OUTDOOR LTG/NEW BAND EXT
(E) LOAD	--	--	--	20	1	17			0.0	0.0	18	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	19	0.0	--		20	1	--	--	--	--	(E) SPACE
(E) LOAD	--	--	--	20	1	21		0.0	--	22	1	--	--	--	--	(E) SPACE
(E) LOAD	--	--	--	20	1	23			0.0	--	24	1	--	--	--	--	(E) SPACE
(E) LOAD	--	--	--	20	1	25	0.0	9.7		26							
(E) LOAD	--	--	--	20	1	27		0.0	11.7	28	3	50	*	*	*	TX-H
(E) LOAD	--	--	--	20	1	29			0.0	11.6	30						
							TOTAL LOAD (kVA):	15.7 kVA	11.9 kVA	11.6 kVA							
							TOTAL CURRENT (A):	57 A	43 A	42 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7600 VA	100.00%	7600 VA	TOTAL CONNECTED LOAD:	39133 VA
LTNG	6133 VA	125.00%	7666 VA	TOTAL ESTIMATED DEMAND:	36566 VA
REC	18200 VA	77.47%	14100 VA	TOTAL CONNECTED CURRENT:	47 A
HEAT	7200 VA	100.00%	7200 VA	TOTAL ESTIMATED DEMAND CURRENT:	44 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
*REFER TO ONE-LINE DIAGRAM.

PANELBOARD AND WIRING SCHEDULE

PANEL: MBP-2 | **VOLTAGE:** 208Y/120V,3P,4W | **AMPERES:** 150 A | **MAINS TYPE:** MLO | **SPD:** No | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** MECHANICAL M3 | **SUPPLY FROM:** (E)DPB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
GJB AD306				20	1	1	0.2	0.2		2	1	20				GJB AD306
GJB AD306				20	1	3		0.2	0.2	4	1	20				GJB AD306
GJB AD308				20	1	5			0.2	0.2	6	1	20				GJB AD308
GJB AD308				20	1	7	0.2	0.2		8	1	20				GJB AD308
GJB AD308				20	1	9		0.2	0.2	10	1	20				GJB AD308
GJB AD308				20	1	11			0.2	0.2	12	1	20				GJB AD308
WB AD101				20	1	13	0.5	0.5		14	1	20				WB AD102
WB AD103				20	1	15		0.5	0.5	16	1	20				WB AD103
WB AD104				20	1	17			0.5	0.5	18	1	20				WB AD104
WB AD105				20	1	19	0.5	0.5		20	1	20				WB AD106
WB AD107				20	1	21		0.5	0.5	22	1	20				WB AD108
WB AD109				20	1	23			0.5	0.5	24	1	20				WB AD109
WB AD110				20	1	25	0.5	0.5		26	1	20				WB AD110
WB AD111				20	1	27		0.5	0.5	28	1	20				WB AD111
GJB AD302				20	1	29			0.2	0.2	30	1	20				GJB AD304
GJB AD306				20	1	31	0.2	0.2		32	1	20				GJB AD308
PB AD204/AD207				20	1	33		1.0	1.1	34	1	20				UPPER DECK HOUSE LTG
HOUSE LTG				20	1	35			0.7	0.6	36	1	20				LOWER DECK HOUSE LTG
SPARE	--	--	--	20	1	37	0.0	0.0		38	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	39		0.0		40						
						41			0.4	42	1	20				STAGE TASK LTG
						43	0.0			44	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	45		0.0	0.0	46	1	20	--	--	--	SPARE
						47			1.0	48	1	20				PSU STAGE EDGE LIGHT/CDR
							TOTAL LOAD (kVA):	4.1 kVA	5.9 kVA	5.8 kVA						
							TOTAL CURRENT (A):	34 A	51 A	51 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	12880 VA	100.00%	12880 VA	TOTAL CONNECTED LOAD:	15772 VA
LTNG	2892 VA	125.00%	3615 VA	TOTAL ESTIMATED DEMAND:	16495 VA
				TOTAL CONNECTED CURRENT:	44 A
				TOTAL ESTIMATED DEMAND CURRENT:	46 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LH | **VOLTAGE:** 208Y/120V,3P,4W | **AMPERES:** 150 A | **MAINS TYPE:** 100A MCB | **SPD:** No | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** CUST. B102 | **SUPPLY FROM:** TX-H

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
B107A-B107C/B105A/B PR				20	1	1	1.4	0.7		2	1	20				B106 PLC REFRIG
B106 PLC- 3 DUPLEX				20	1	3		1.1	0.5	4	1	20				B106 PLC COFFEE
B106 PLC COUNTER				20	1	5			0.5	1.0	6	1	20				B106 PLC MW
MARIACHI FB/DUPLEXES				20	1	7	1.8	0.5		8	1	20				MRP MAR RACK
MARIACHI TEACHING WALL				20	1	9		1.2	0.2	10	1	20				MARIACHI PROJECTOR
MARIACHI COW				20	1	11			0.5	1.4	12	1	20				B117-B119 OFFICE/STOR
B115 PERC PROJECTOR				20	1	13	0.2	0.5		14	1	20				B115 PERC MRP RACK
B115 PERC COW				20	1	15		0.5	1.0	16	1	20				B115 PERC TEACHING WALL
B115 PERC 4 DUPLEXES				20	1	17			0.7	1.6	18	1	20				B112 OFFICE/B113 STOR
B114 ICE RM				20	1	19	0.4	0.7		20	1	20				B110 DRINKING FOUNTAIN
B110 BAND HALL 2 FB				20	1	21		1.3	1.4	22	1	20				B110 BAND HALL TEACHING WALL
B110 BAND HALL 2 FB/DUPLEXES				20	1	23			1.6	0.5	24	1	20				B110 BAND HALL COW
B110 PROJECTOR				20	1	25	0.5	0.7		26	1	20				B111 ENSEMBLE TEACHING WALL
B110 BAND HALL RACK				20	1	27		0.5	0.5	28	1	20				B111 ENSEMBLE COW
B111 ENSEMBLE 4 DUPLEXES				20	1	29			0.9	1.0	30	1	20				B111 ENSEMBLE 4 OH DOOR
B111 ENSEMBLE MRP ENS				20	1	31	0.5	1.8		32	1	20				HEAT UNIFORM STOR B108
B117 DEH-4				20	1	33		1.8	1.8	34	1	20				B113 DEH-2
B118 DEH-3				20	1	35			1.8	0.0	36	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	37	0.0	0.0		38	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	39		0.0	0.0	40	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	41			0.0	0.0	42	1	20	--	--	--	SPARE
				TOTAL LOAD (kVA):			9.7 kVA	11.7 kVA	11.6 kVA								
				TOTAL CURRENT (A):			81 A	100 A	99 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7600 VA	100.00%	7600 VA	TOTAL CONNECTED LOAD:	33000 VA
REC	18200 VA	77.47%	14100 VA	TOTAL ESTIMATED DEMAND:	28900 VA
HEAT	7200 VA	100.00%	7200 VA	TOTAL CONNECTED CURRENT:	92 A
				TOTAL ESTIMATED DEMAND CURRENT:	80 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP1T | **VOLTAGE:** 208Y/120V,3P,4W | **AMPERES:** 100 A | **MAINS TYPE:** MLO | **SPD:** No | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** MECHANICAL M3 | **SUPPLY FROM:** (E)DPB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
C112 CU-1/AC-2				20	2	1	1.3	0.4		2	1	20				C110 AUDITORIUM CRS
						3			1.3	0.4	4	1	20				C115 STAGE AV4
C115 STAGE CR3				20	1	5					6	1	20				C115 STAGE CR3
C115 STAGE CONVENIENCE				20	1	7	0.5	0.5			8	1	20				C119 SCENE SHOP CONVENIENCE
C115 STAGE CONVENIENCE				20	1	9			0.5	0.8	10	2	20				C119 SCENE SHOP DRYER
C119 SCENE SHOP CONVENIENCE				20	1	11					12						
C119 SCENE SHOP WASHER				20	1	13	0.8	0.5			14	1	20				C115 STAGE PROJECTOR SCREEN
C119 SCENE SHOP REC				20	1	15			1.1	0.5	16	1	20				ER-SMP
						17											ER-SMP
C119 SCENE SHOP EWH				20	2	19	1.5	0.5			20	1	20				TL FLOORBOX
STAGE LIFT STATION				20	1	21			1.0	0.2	22	1	20				C110 AUDIT DUPLEX
TL FLOORBOX				20	1	23					24	1	20				C110 AUDITORIUM CRS
CR2 AUDIT				20	1	25	0.5	0.5			26	1	20				AUDIT PROJECTOR
CR2 AUDIT				20	1	27			0.5	0.2	28	1	20				AUDIT L2 DUPLEX
AUDIT L2 DUPLEX				20	1	29					30						
						31					32						
						33					34						
						35				--	36	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	37	--	--			38	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	39			--	--	40	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	41				--	42	1	--	--	--	--	SPACE
				TOTAL LOAD (kVA):			7.1 kVA	6.4 kVA	4.9 kVA								
				TOTAL CURRENT (A):			61 A	55 A	41 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	8880 VA	100.00%	8880 VA	TOTAL CONNECTED LOAD:	18372 VA
Motor	2712 VA	100.00%	2712 VA	TOTAL ESTIMATED DEMAND:	18372 VA
REC	3780 VA	100.00%	3780 VA	TOTAL CONNECTED CURRENT:	51 A
HEAT	3000 VA	100.00%	3000 VA	TOTAL ESTIMATED DEMAND CURRENT:	51 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MBP-3 | **VOLTAGE:** 208Y/120V,3P,4W | **AMPERES:** 100 A | **MAINS TYPE:** MLO | **SPD:** No | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** MECHANICAL M3 | **SUPPLY FROM:** (E)DPB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
PB BD201				20	1	1	0.2	0.2		2	1	20				PB BD201
PB BD202				20	1	3		0.2	0.2	4	1	20				PB BD202
PB BD203				20	1	5			0.2	0.2	6	1	20				PB BD203
PB BD204				20	1	7	0.2	0.2		8	1	20				PB BD204
PB BD205				20	1	9		0.2	0.2	10	1	20				PB BD205
PB BD206				20	1	11			0.2	0.2	12	1	20				PB BD206
PB BD207				20	1	13	0.2	0.2		14	1	20				PB BD207
PB BD208				20	1	15		0.2	0.2	16	1	20				PB BD208
PB BD209				20	1	17			0.2	0.2	18	1	20				PB BD209
PB BD210				20	1	19	0.2	0.2		20	1	20				PB BD210
PB BD211				20	1	21		0.2	0.2	22	1	20				PB BD211
PB BD212				20	1	23			0.2	0.2	24	1	20				PB BD212
PB BD213				20	1	25	0.2	0.2		26	1	20				PB BD213
PB BD214				20	1	27		0.2	0.2	28	1	20				PB BD214
PB BD215				20	1	29			0.2	0.2	30	1	20				PB BD215
PB BD216				20	1	31	0.2	0.2		32	1	20				PB BD216
WB BD101				20	1	33		0.5	0.5	34	1	20				WB BD101
WB BD102				20	1	35			0.5	0.5	36	1	20				WB BD102
WB BD103				20	1	37	0.5	0.5		38	1	20				WB BD103
WB BD104				20	1	39		0.5	0.5	40	1	20				WB BD104
SPARE	--	--	--	20	1	41			0.0	0.0	42	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	43	0.0	0.0		44	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	45		0.0	0.0	46	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	47			0.0	0.0	48	1	20	--	--	--	SPARE
				TOTAL LOAD (kVA):			3.2 kVA	3.8 kVA	2.8 kVA								
				TOTAL CURRENT (A):			27 A	32 A	23 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6880 VA	100.00%	6880 VA	TOTAL CONNECTED LOAD:	9760 VA
REC	2880 VA	100.00%	2880 VA	TOTAL ESTIMATED DEMAND:	9760 VA
				TOTAL CONNECTED CURRENT:	27 A
				TOTAL ESTIMATED DEMAND CURRENT:	27 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: HM1F | **VOLTAGE:** 480Y/277V,3P,4W | **AMPERES:** 200 A | **MAINS TYPE:** MLO | **SPD:** No | **MOUNTING:** SURFACE | **AVAILABLE FAULT CURRENT:** | **PANEL INTERRUPTING RATING:** | **LOCATION:** MECH. M15 | **SUPPLY FROM:** MSBB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	2.9	2.9		2						
F120 FVAV-12				20	3	3		2.9	2.9	4	3	20				F122 FVAV-12
						5			2.9	2.9	6					
F110 FVAV-10	10	10		20	1	7	6.7	6.7		8	1	20		10	10	F121 FVAV-10
F111 FVAV-10	10	10		20	1	9		6.7	6.7	10	1	20		10	10	F123 FVAV-10
F112 FVAV-10	10	10		20	1	11			6.7	6.7	12	1	20		10	10	F124 FVAV-10
F113 FVAV-10	10	10		20	1	13	6.7	6.7		14	1	20		10	10	F125 FVAV-10
F114 FVAV-10	10	10		20	1	15		6.7	6.7	16	1	20		10	10	F126 FVAV-10
F115 FVAV-10	10	10		20	1	17			6.7	6.7	18	1	20		10	10	F127 FVAV-10
F117 FVAV-10	10	10		20	1	19	6.7	6.7		20	1	20		10	10	F128 FVAV-10
F119 FVAV-10	10	10		20	1	21			6.7	6.7	22	1	20		10	10	F129 FVAV-10
						23				1.4	0.0	24	1	20	--	--	SPARE
TX				20	2	25	1.4	0.0				26	1	20	--	--	SPARE
SPACE	--	--	--	--	1	27			--	0.0		28	1	20	--	--	SPACE
SPACE	--	--	--	--	1	29					--	30	1	--	--	--	SPACE
SPACE	--	--	--	--	1	31	--	--				32	1	--	--	--	SPACE
SPACE	--	--	--	--	1	33			--	--		34	1	--	--	--	SPACE
SPACE	--	--	--	--	1	35					--	36	1	--	--	--	SPACE
SPACE	--	--	--	--	1	37	--	--				38	1	--	--	--	SPACE
SPACE	--	--	--	--	1	39			--	--		40	1	--	--	--	SPACE
SPACE	--	--	--	--	1	41				--	--	42	1	--	--	--	SPACE
				TOTAL LOAD (kVA):			47.3 kVA	45.8 kVA	33.9 kVA								
				TOTAL CURRENT (A):			177 A	172 A	122 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	2880 VA	100.00%	2880 VA	TOTAL CONNECTED LOAD:	127050 VA
Motor	28570 VA	100.00%	28570 VA	TOTAL ESTIMATED DEMAND:	127050 VA
HEAT	95600 VA	100.00%	95600 VA	TOTAL CONNECTED CURRENT:	153 A
				TOTAL ESTIMATED DEMAND CURRENT:	153 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PANEL SCHEDULES

SHEET NUMBER

E7.03

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Autodesk Docs://2023306 Willowridge High School/HWFR23_MEP_CMTA_R24.rvt

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PANELBOARD AND WIRING SCHEDULE

PANEL: LP3B | **MAINS TYPE:** 150A MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **PANEL INTERRUPTING RATING:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **LOCATION:** MECH C3 | **SUPPLY FROM:** TLP3B

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
K113 SHARED ENSEMBLE COW				20	1	1	0.5	0.2					2	1	20				K105 ORCHESTRA HALL WF
K105 ORCHESTRA HALL COW				20	1	3			0.5	0.2			4	1	20				K112 CHOIR WF
K101 DRAMA CR COW				20	1	5					0.5	0.2	6	1	20				K101 DRAMA CR PROJECTOR
K114 OFFICE/LIBRARY MW				20	1	7	1.0	0.5					8	1	20				K114 OFFICE/LIBRARY COFFEE
K112 CHOIR REC				20	1	9			0.9	0.7			10	1	20				K113 SHARED ENSEMBLE REC
K105 ORCHESTRA HALL REC				20	1	11					0.8	1.8	12	1	20				K106 DEH-6
K114 OFFICE/LIBRARY REC				20	1	13	1.3	1.1					14	1	20				K113 SHARED ENS/PR REC
K101/103 DRAMA CR/STOR REC				20	1	15			0.8	1.1			16	1	20				K105 ORCHESTRA HALL REC
K108 OFFICE & LIBRARY MW				20	1	17					1.0	0.7	18	1	20				EXTERIOR DUPLEXES
K102 OFFICE REC				20	1	19	1.1	0.9					20	1	20				K106/107 INSTR. STOR/HARP RM...
K112 CHOIR COW				20	1	21			0.5	0.5			22	1	20				K108 OFFICE & LIBRARY COFFEE
						23					1.0	1.0	24						
C4 IDF L6-30R	10	10		30	2	25	1.0	1.0					26	2	30		10	10	C4 IDF L6-30R
						27			1.0	1.0			28						
C4 IDF L6-30R	10	10		30	2	29					1.0	1.0	30	2	30		10	10	C4 IDF L6-30R
K108 OFFICE & LIBRARY REC				20	1	31	0.7	0.2					32	1	20				K105 ORCHESTRA HALL...
K100/K100B CORR DUPLEXES				20	1	33			0.7	0.2			34	1	20				K112 CHOIR PROJECTOR
K108 OFFICE & LIBRARY REC				20	1	35					0.5	0.5	36	1	20				K101 DRAMA TCP AV
C4 IDF REC				20	1	37	0.4	1.0					38	1	20				K112 CHOIR TEACH...
C4 IDF REC				20	1	39			0.2	0.2			40	1	20				K105 ORCHESTRA AV RACK
C4 IDF REC				20	1	41					0.2	0.2	42	1	20				K113 SHARED ENSEMBLE AV...
K105 DEH-7				20	1	43	1.8	1.7					44	1	35		10	10	K101 DRAMA PARTITION
K112 CHOIR MRP CHR				20	1	45			0.2	0.2			46	1	20				K104 BB CR3
K101 DRAMA CR DUPLEXES				20	1	47					1.1	0.5	48	1	20				K104 BB BBP/2 DUPLEX
K104 BB CR3 WEST WALL				20	1	49	0.2	0.2					50	1	20				K104 BB CR3 SOUTH WALL
K104 BB BBP/1 DUPLEX				20	1	51			0.4	0.2			52	1	20				K104 BB CR3 EAST WALL
K104 BB COW				20	1	53					0.5	0.7	54	1	20				K104 BB BBP/TEACH WALL
K104 BB BBP/QUAD				20	1	55	0.4	1.0					56	1	20				K104 OH DOOR
C4 IDF REC				20	1	57			0.2	0.2			58	1	20				BAS PANEL
						59					1.7	0.4	60	1	20				MECH C3 DUPLEXES
CU-2/AC-2		10	10	25	2	61	1.7	0.0					62	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	63			0.0	0.0			64	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	67	0.0	--					68	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	69			--	--			70	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	71					--	--	72	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	73	--	--					74	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	75			--	--			76	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	77					--	--	78	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	79	--	0.0					80						
SPACE	--	--	--	--	1	81			--	0.0			82	3	30	1	8	8	SPD
SPACE	--	--	--	--	1	83					--	0.0	84						
						TOTAL LOAD (kVA):	17.6 kVA		9.7 kVA		15.3 kVA								
						TOTAL CURRENT (A):	154 A		81 A		135 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	13940 VA	100.00%	13940 VA	TOTAL CONNECTED LOAD:	42688 VA
Motor	5008 VA	100.00%	5008 VA	TOTAL ESTIMATED DEMAND:	37618 VA
REC	20140 VA	74.83%	15070 VA	TOTAL CONNECTED CURRENT:	118 A
HEAT	3600 VA	100.00%	3600 VA	TOTAL ESTIMATED DEMAND CURRENT:	104 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)2LCD | **MAINS TYPE:** | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **LOCATION:** | **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) A206 CR REC	--	--	--	20	1	1	0.0	0.0					2	1	20	--	--	--	(E) B206 CR REC
(E) A206 CR REC	--	--	--	20	1	3			0.0	0.0			4	1	20	--	--	--	(E) B206 CR REC
A206 3D ART LAB REC				20	1	5					0.4	0.0	6	1	20	--	--	--	(E) B206 CR REC
A206 3D ART LAB REC				20	1	7	0.5	0.0					8	1	20	--	--	--	(E) B204 CR REC
A206 3D ART LAB REC				20	1	9			0.5	0.0			10	1	20	--	--	--	(E) B203 CR REC
(E) A208 CR REC	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	(E) B203 CR REC
A208A CR/STOR REC				20	1	13	0.4	0.0					14	1	20	--	--	--	(E) B203 CR REC
(E) A201 CR REC	--	--	--	20	1	15			0.0	0.0			16	1	20	--	--	--	(E) B203 CR REC
(E) A201 CR REC	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	(E) B203 CR REC
(E) A201 CR REC	--	--	--	20	1	19	0.0	0.0					20	1	20	--	--	--	(E) B203 CR REC
A201 ART CR REC				20	1	21			0.9	0.0			22	1	20	--	--	--	(E) B203 CR REC
A201 ART CR REC				20	1	23					0.9	0.0	24	1	20	--	--	--	(E) B203 CR REC
A210 ART CR REC				20	1	25	0.5	0.0					26	1	20	--	--	--	(E) SPARE
A210 ART CR REC				20	1	27			0.5	0.0			28	1	20	--	--	--	(E) SPARE
(E) SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	(E) SPARE
(E) SPACE	--	--	--	--	1	31	--	--					32	1	--	--	--	--	(E) SPACE
(E) SPACE	--	--	--	--	1	33			--	--			34	1	--	--	--	--	(E) SPACE
(E) SPACE	--	--	--	--	1	35					--	--	36	1	--	--	--	--	(E) SPACE
(E) SPACE	--	--	--	--	1	37	--	--					38	1	--	--	--	--	(E) SPACE
(E) SPACE	--	--	--	--	1	39			--	--			40	1	--	--	--	--	(E) SPACE
(E) SPACE	--	--	--	--	1	41					--	--	42	1	--	--	--	--	(E) SPACE
						TOTAL LOAD (kVA):	1.4 kVA		2.0 kVA		1.3 kVA								
						TOTAL CURRENT (A):	12 A		17 A		11 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	4680 VA	100.00%	4680 VA	TOTAL CONNECTED LOAD:	4680 VA
				TOTAL ESTIMATED DEMAND:	4680 VA
				TOTAL CONNECTED CURRENT:	13 A
				TOTAL ESTIMATED DEMAND CURRENT:	13 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: HMB3 | **MAINS TYPE:** MLO | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **PANEL INTERRUPTING RATING:**
AMPERES: 200 A | **MOUNTING:** SURFACE | **LOCATION:** MECH C3 | **SUPPLY FROM:** (E) DPA

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	2.2	2.9					2						
K100 CORR FVAV-14				20	3	3			2.2	2.9			4	3	20				K114 OFFICE/LIBRARY FVAV-12
						5					2.2	2.9	6						
K100 CORR FVAV-8				20	1	7	4.6	2.7					8	1	20				K102 OFFICE FVAV-6
K108 OFFICE & LIBRARY FVAV-8				20	1	9			4.6	2.7			10	1	20				K113 UNIFORM STOR FVAV-6
K113 UNIFORM STOR FVAV-10				20	1	11					6.7	2.7	12	1	20				K114 OFFICE/LIBRARY FVAV-6
K105/K112-115 LTNG				20	1	13	3.1	0.7					14	1	20				K100 CORR LTNG
K100-104/106-108/110/111 LTNG				20	1	15			2.2	17.6			16						
EXTERIOR LTNG				20	1	17					0.4	9.7	18	3	70	*	*	*	TLP3B
K114 OFFICE IWH				20	1	19	4.1	15.3					20						
K108 OFFICE IWH				20	1	21			4.1	5.8			22						
						23					2.2	5.8	24	3	45		10	10	AHU-BAND
MECH C3 FVAV-14	10	10		25	3	25	2.2	5.8					26						
						27			2.2	0.0			28	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	31	0.0	0.0					32	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	33			0.0	--			34	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	35					--	--	36	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	37	--	--					38	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	39			--	--			40	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	41					--	--	42	1	--	--	--	--	SPACE
						TOTAL LOAD (kVA):	43.6 kVA		44.4 kVA		32.6 kVA								
						TOTAL CURRENT (A):	164 A		166 A		118 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	30528 VA	100.00%	30528 VA	TOTAL CONNECTED LOAD:	120615 VA
LTNG	6364 VA	125.00%	7955 VA	TOTAL ESTIMATED DEMAND:	117136 VA
Motor	29483 VA	100.00%	29483 VA	TOTAL CONNECTED CURRENT:	145 A
REC	20140 VA	74.83%	15070 VA	TOTAL ESTIMATED DEMAND CURRENT:	141 A
HEAT	34100 VA	100.00%	34100 VA		

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
*REFER TO ONE-LINE DIAGRAM.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)HA | **MAINS TYPE:** MLO | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 480Y/277V,3P,4W | **SPD:** Yes | **PANEL INTERRUPTING RATING:**
AMPERES: 100 A | **MOUNTING:** SURFACE | **LOCATION:** MECHANICAL M3 | **SUPPLY FROM:** (E) DPA

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E)LTG	--	--	--	20	1	1	0.0	0.0					2	1	20	--	--	--	(E)LTG LOBBY
(E)LTG	--	--	--	20	1	3			0.0	0.0			4	1	20	--	--	--	(E)LTG LOBBY
(E)LTG	--	--	--	20	1	5					0.0	0.0	6	1	20	--	--	--	(E)LTG STOR
(E)LTG	--	--	--	20	1	7	0.0	0.0					8	1	20	--	--	--	(E)LTG RESTRM/CONS
(E)LTG	--	--	--	20	1	9			0.0	0.0			10	1	20	--	--	--	(E)LTG CORRIDOR
(E)HIDS AUDITORIUM	--	--	--	20	1	11					0.0	0.0	12						
(E)HIDS AUDITORIUM	--	--	--	20	1	13	0.0	0.0					14	3	15	--	--	--	(E)SF1
(E)HIDS AUDITORIUM	--	--	--	20	1	15			0.0	0.0			16						
(E)LTG	--	--	--	20	1	17					0.0	0.0	18						
(E)SOUTH WALL PACKS	--	--	--	20	1	19	0.0	0.0					20	3	20	--	--	--	(E)SF2
(E)SOUTH WALL PACKS	--	--	--	20	1	21			0.0	0.0			22						
(E)EM INVERTER	--	--	--	20	1	23					0.0	0.0	24						
(E)SPARE	--	--	--	20	1	25	0.0	0.0					26	3	15	--	--	--	(E)AIR COMPRESSOR
(E)SPARE	--	--	--	20	1	27			0.0	0.0			28						
(E)SPARE	--	--	--	20	1	29					0.0	0.0	30						
						31	0.0	0.0					32	3	15	--	--	--	(E)EHW-1
(E)MCC	--	--	--	30	3	33			0.0	0.0			34						
						35					0.0	--	36	1	--	--	--	--	(E)SPACE
						37	0.0	--					38	1	--	--	--	--	(E)SPACE
(E)SPD	--	--	--	30	2	39			0.0	--			40	1	--	--	--	--	(E)SPACE
(E)SPACE	--	--	--	--	1	41					--	1.1	42	1	20				INVERTER INV1
						TOTAL LOAD (kVA):	0.0 kVA		0.0 kVA		1.1 kVA								
						TOTAL CURRENT (A):	0 A		0 A		4 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	1107 VA	125.00%	1384 VA	TOTAL CONNECTED LOAD:	1107 VA
				TOTAL ESTIMATED DEMAND:	1384 VA
				TOTAL CONNECTED CURRENT:	1 A
				TOTAL ESTIMATED DEMAND CURRENT:	2 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)T | **MAINS TYPE:** | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 480Y/277V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **LOCATION:** | **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) AREA C LTNG	--	--	--	20	1	1	0.0	0.0					2	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	3			0.0	0.0			4	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	5					0.0	0.0	6	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	7	0.0	0.0					8	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	9			0.0	0.0			10	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	13	0.0	0.0					14	1	20	--	--	--	(E) PARKING LOT FLOOD
LTNG ART CLASSROOMS				20	1	15			2.1	0.0			16	1	20	--	--	--	(N) SPARE
(N) SPARE	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	(N) SPARE
(N) SPARE	--	--	--	20	1	19	0.0	0.0					20	1	20	--	--	--	(N) SPARE
(E) AREA C LTNG	--	--	--	20	1	21			0.0	0.0			22	1	20	--	--	--	(E) AREA C LTNG
(E) AREA C LTNG	--	--	--	20	1	23					0.0	0.0	24						
(E) SPARE	--	--	--	20	1	25	0.0	0.0					26	3	20	--	--	--	(E) DUMBWAITER
(E) SPARE	--	--	--	20	1	27			0.0	0.0			28						
						TOTAL LOAD (kVA):	0.0 kVA		2.1 kVA		0.0 kVA								
						TOTAL CURRENT (A):	0 A		8 A		0 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	2090 VA	125.00%	2613 VA	TOTAL CONNECTED LOAD:	2090 VA
				TOTAL ESTIMATED DEMAND:	2613 VA
				TOTAL CONNECTED CURRENT:	3 A
				TOTAL ESTIMATED DEMAND CURRENT:	3 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: HM2F | **MAINS TYPE:** MLO | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 480Y/277V,3P,4W | **SPD:** No | **PANEL INTERRUPTING RATING:**
AMPERES: 300 A | **MOUNTING:** SURFACE | **LOCATION:** MECH M3 | **SUPPLY FROM:** MSBB

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	2.9	3.6					2						
F205 FVAV-12				20	3	3			2.9	3.6			4	3	25		10	10	F220 FVAV-14
						5					2.9	3.6	6						
						7	2.9	2.9					8						
F206 FVAV-12				20	3	9			2.9	2.9			10	3	20				F221 FVAV-12
						11					2.9	2.9	12						
						13	2.9	2.9					14						
F207 FVAV-12				20	3	15			2.9	2.9			16	3	20				F222 FVAV-12
						17					2.9	2.9	18						
						19	2.9	2.9					20						
F208 FVAV-12				20	3	21			2.9	2.9			22	3	20				F223 FVAV-12
						23					2.9	2.9	24						
						25	2.9	2.9					26						
F209 FVAV-12				20	3	27			2.9	2.9			28	3	20				F224 FVAV-12
						29					2.9	2.9	30						
						31	2.9	2.9					32						
F210 FVAV-12				20	3	33			2.9	2.9			34	3	20				F225 FVAV-12
						35					2.9	2.9	36						
F212 FVAV-10	10	10		20	1	37	6.7	2.9					38						
F214 FVAV-10	10	10		20	1	39			6.7	2.9			40	3	20				F226 FVAV-12
F217 FVAV-10	10	10		20	1	41					6.7	2.9	42						
F216 FVAV-10	10	10		20	1	43	6.7	2.9					44						
F217 FVAV-10	10	10		20	1	45			6.7	2.9			46	3	20				F227 FVAV-12
F218 FVAV-10	10	10		20	1	47					6.7	2.9	48						
SPARE	--	--	--	20	1	49	0.0	0.0					50	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	51			0.0	0.0			52	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	53					0.0	0.0	54	1	20	--	--	--	SPARE
SPACE	--	--	--	--	1	55	--	--					56	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	57			--	--			58	1	--	--	--	--	SPACE
SPACE	--	--	--	--	1	59					--	--	60	1	--	--	--	--	SPACE
						TOTAL LOAD (kVA):	54.1 kVA		54.1 kVA		54.1 kVA								
						TOTAL CURRENT (A):	195 A		195 A		195 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	31744 VA	100.00%	31744 VA	TOTAL CONNECTED LOAD:	162444 VA
HEAT	130700 VA	100.00%	130700 VA	TOTAL ESTIMATED DEMAND:	162444 VA
				TOTAL CONNECTED CURRENT:	195 A
				TOTAL ESTIMATED DEMAND CURRENT:	195 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)LT | **MAINS TYPE:** | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** | **PANEL INTERRUPTING RATING:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **LOCATION:** | **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) LOAD	--	--	--	20	2	1	0.0	0.0					2	2	20	--	--	--	(E) LOAD
						3			0.0	0.0			4						
(E) LOAD	--	--	--	20	2	5					0.0	0.0	6	2	20	--	--	--	(E) LOAD
						7	0.0	0.0					8						
(E) LOAD	--	--	--	20	2	9			0.0	0.0			10	2	20	--	--	--	(E) LOAD
						11					0.0	0.0	12						
(E) LOAD	--	--	--	20	2	13	0.0	0.0					14	1	20	--	--	--	(E) LOAD
						15			0.0	0.0			16	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	2	17					0.0	0.0	18	1	20	--	--	--	(E) LOAD
						19	0.0	0.0					20	1	20	--	--	--	(E) LOAD
(E) SPACE	--	--	--	--	1	21			--	--			22	1	--	--	--	--	(E) SPACE
(E) LOAD	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	25	0.0	0.0					26	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	27			0.0	0.0			28	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	31	0.0	0.0					32	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	33			0.0	0.0			34	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	37	0.0	0.0					38	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	39			0.0	0.0			40	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	41					0.0	0.0	42	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	43	0.0	0.0					44	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	45			0.0	0.0			46	1	20	--	--	--	(E) LOAD
A202 ART STOR REC				20	1	47					0.4	0.0	48	1	20	--	--	--	(E) LOAD
						TOTAL LOAD (kVA):	0.0 kVA		0.0 kVA		0.4 kVA								
						TOTAL CURRENT (A):	0 A		0 A		3 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
REC	360 VA	100.00%	360 VA	TOTAL CONNECTED LOAD:	360 VA
				TOTAL ESTIMATED DEMAND:	360 VA
				TOTAL CONNECTED CURRENT:	1 A
				TOTAL ESTIMATED DEMAND CURRENT:	1 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: (E)2LCB | **MAINS TYPE:** 150A MCB | **AVAILABLE FAULT CURRENT:**
VOLTAGE: 208Y/120V,3P,4W | **SPD:** Yes | **PANEL INTERRUPTING RATING:** 22 kAIC
AMPERES: 150 A | **MOUNTING:** SURFACE | **LOCATION:** MECH 228 | **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) LOAD	--	--	--	20	1	1	0.0	0.0					2	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	3			0.0	0.0			4	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	5					0.0	0.0	6	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	7	0.0	0.0					8	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	9			0.0	0.0			10	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	13	0.0	0.0					14	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	15			0.0	0.0			16	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	19	0.0	0.0					20	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	21			0.0	0.0			22	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	25	0.0	0.0					26	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	27			0.0	0.0			28	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	(E) LOAD
(E) LOAD	--	--	--	20	1	31	0.0	0.5					32	1	20				ER RACK GYM
(E) LOAD	--	--	--	20	1	33			0.0	0.5			34	1	20				ER RACK GYM
(E) LOAD	--	--	--	20	1	35					0.0	0.5	36	1	20				ER RACK GYM
(E) LOAD	--	--	--	20	1	37	0.0	0.5					38	1	20				ER RACK GYM
(E) LOAD	--	--	--	20	1	39			0.0	0.4			40	1	20				230 AUX GYM AV4 DUPLEXES
(E)SPACE	--	--	--	--	1	41					--	0.0	42	1	20	--	--	--	(E)SPARE
						TOTAL LOAD (kVA):	1.0 kVA		0.9 kVA		0.5 kVA								
						TOTAL CURRENT (A):	9 A		8 A		4 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	2000 VA	100.00%	2000 VA	TOTAL CONNECTED LOAD:	2360 VA
REC	360 VA	100.00%	360 VA	TOTAL ESTIMATED DEMAND:	2360 VA
				TOTAL CONNECTED CURRENT:	7 A
				TOTAL ESTIMATED DEMAND CURRENT:	7 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

STATE OF TEXAS · GREGORY JAMES GEHRT · 90963 · REGISTERED PROFESSIONAL ENGINEER
CMTA F-8627
2025.09.16

△	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2023 BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER
E7.04

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9/22/2025 5:19:41 PM
Autodesk Docs://2023306 Willowridge High School/HWFR23_MEP_CMTA_R24.rvt

PLUMBING GENERAL NOTES:

CODES AND STANDARDS

A. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES AS ADOPTED AND/OR AMENDED BY AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE CURRENTLY ADOPTED VERSIONS OF:
- INTERNATIONAL BUILDING CODE(S) AND FIRE CODE(S)
- UNIFORM MECHANICAL CODE
- UNIFORM PLUMBING CODE
- INTERNATIONAL ENERGY CONSERVATION CODE
- HEALTH CODE
- LOCAL ZONING CODE(S)
- WINDSTORM RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE
- SEISMIC RESTRAINT AND DESIGN REQUIREMENTS WHERE APPLICABLE

IN CASE OF CONFLICTS OR DISCREPANCIES AMONG CODE REQUIREMENTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

B. OBSERVE ALL APPLICABLE CODES, RULES, AND REGULATIONS THAT MAY APPLY TO THE PERFORMANCE OF WORK UNDER THIS CONTRACT, INCLUDING BUT NOT LIMITED TO CODES REGULATING SAFETY, WORKING CONDITIONS, NOISE RESTRICTIONS, USAGE OF PUBLIC ROADWAYS AND OTHER UTILITIES DURING CONSTRUCTION, HANDLING OF HAZARDOUS MATERIALS, AND DISPOSAL OF WASTES. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

C. PROPOSED MATERIALS, ROUTING, AND DETAILING OF UTILITY CONNECTIONS SHOWN ON PLANS HAVE BEEN COORDINATED WITH UTILITY PROVIDERS WHERE POSSIBLE. BUT PLANS MAY NOT COMPLETELY DESCRIBE UTILITY PROVIDER REQUIREMENTS AND SPECIFICATIONS. WORK WHICH EMBODIES UTILITY CONNECTIONS AND/OR IS INSTALLED IN UTILITY PROVIDER EASEMENTS, SPACES, OR ENCLOSURES SHALL BE INSTALLED PER UTILITY PROVIDER STANDARDS, PLANS, AND SPECIFICATIONS. WHERE SUCH UTILITY PROVIDER REQUIREMENTS CONFLICT WITH THESE PLANS, CONSULT THE ENGINEER.

EXISTING CONDITIONS

A. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

B. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

C. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

D. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

E. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

PHASING, SEQUENCING, AND SCOPE

A. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

B. THE CONTRACTOR SHALL EXERCISE CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT CAUSE UNPLANNED INTERRUPTION OF ANY EXISTING SERVICE OR SUB-SERVICE, INCLUDING EXISTING UTILITIES WHICH MAY PASS OVER, UNDER, OR THRU THE WORK SITE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES.

C. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).

D. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

DIMENSIONS, MOUNTING HEIGHTS, AND COORDINATION AMONG TRADES AND DISCIPLINES

A. COORDINATE THE LOCATION OF DRAINS, FLOOR SINKS, GAS OUTLETS, ETC., WITH ALL CASEWORK, EQUIPMENT, DUCTWORK, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

C. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

D. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

E. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

F. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

TECHNICAL REQUIREMENTS FOR SATISFACTORY WORK

A. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE EXISTING OR NEW WORK OF OTHER TRADES.

B. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

C. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

D. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

E. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

DEVIATIONS, CONFLICTS, ERRORS, OMISSIONS, ETC.

A. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

B. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

HAZARDOUS MATERIAL NOTE:

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING DEMOLITION NOTES:

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.

B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.

E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

FIRE PROTECTION GENERAL NOTES:

A. ALL AREAS SHALL BE PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM INSTALLED IN STRICT ACCORDANCE WITH NFPA-13, THE KENTUCKY BUILDING CODES AND THE PROJECT SPECIFICATIONS.

B. ALL AREAS ARE PRESENTLY PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR SHALL MODIFY THE SYSTEM AS REQUIRED TO MAINTAIN 100% PROTECTION, IN ACCORDANCE WITH NFPA 13, KENTUCKY BUILDING CODE AND SPECIFICATIONS.

C. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICAITONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.

D. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.

E. INSTALL HEADS IN CENTER OF 2'X2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2'X4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2'X4' TILE IF IT IS SCORED TO LOOK LIKE TWO 2'X2' TILES.

F. ALL FIRE PROTECTION PIPE SIZES SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA-13.

G. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE SPRINKLER HEADS.

H. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST PRIOR TO SUBMITTING SHOP DRAWINGS.

SYMBOLS & ABBREVIATIONS

A, AIR	MEDICAL AIR		POINT OF CONNECTION
AFF	ABOVE FINISHED FLOOR		LIMIT OF DEMOLITION
AFR	ABOVE FINISHED ROOF		PIPE ELBOW TURNING UP/TURNING DOWN
C.I.	CAST IRON		PIPE TEE TURNING UP/TURNING DOWN
CO2	CARBON DIOXIDE	A	MEDICAL AIR
CW	DOMESTIC COLD WATER	CA	COMPRESSED AIR
DN	DOWN	FM	FORCED MAIN
EV	EVACUATION (WASTE ANESTHETIC GAS DISPOSAL)	FP	FIRE PROTECTION LINE
FHV	FIRE HOSE VALVE WITH CABINET	G	GAS LINE
FPWH	FREEZE PROOF WALL HYDRANT	GW	SANITARY WASTE PIPING TO GREASE TRAP
HB	HOSE BIBB	O	OXYGEN PIPING
HW	DOMESTIC HOT WATER	ORL	OVERFLOW ROOF LEADER PIPING
IAW	IN ACCORDANCE WITH	RL	ROOF LEADER PIPING
ID	INSIDE DIMENSION	SAN	SANITARY WASTE PIPING
IE	INVERT ELEVATION	SS	STORM SEWER PIPING
LPA	LINE PRESSURE ALARM (MEDICAL GAS AREA ALARM)	V	VACUUM PIPING
MH	MANHOLE	VT	VENT PIPING
MSA	MULTI-SINGLE ALARM (MEDICAL GAS MASTER ALARM)	E(NAME)	EXISTING PIPING (THIN LINE)
NTS	NOT TO SCALE	ABAN(NAME)	ABANDONED EXISTING PIPING (THIN LINE)
NIC	NOT IN CONTRACT		DOMESTIC COLD WATER PIPING
NO	NORMALLY OPEN		DOMESTIC HOT WATER SUPPLY
NC	NORMALLY CLOSED		DOMESTIC RECIRCULATING HOT WATER
O, OX	OXYGEN	CO	CLEANOUT IN CEILING SPACE
OD	OUTSIDE DIMENSION	CO	FLOOR CLEANOUT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	ECO	EXTERIOR CLEANOUT
OFOI	OWNER FURNISHED, OWNER INSTALLED		BALANCING VALVE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		BALL VALVE
OR	OPEN RECEPTACLE		SAFETY RELIEF VALVE
ORL	OVERFLOW ROOF LEADER		SAFETY RELIEF VALVE
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)		OS&Y (GATE) VALVE
PSI	POUNDS PER SQUARE INCH		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
RHW	DOMESTIC RECIRCULATING HOT WATER		STRAINER
RL	ROOF LEADER		CHECK VALVE
SCW	SOFT DOMESTIC COLD WATER		DOUBLE CHECK VALVE ASSEMBLY
SR	SANITARY RISER		PIPING UNION
TB	THRUST BLOCK	PS	FLOW SWITCH
TE	TOP ELEVATION	PS	PRESSURE SWITCH
TP	TRAP PRIMER	PS	TAMPER SWITCH
TYP	TYPICAL		THERMOMETER
UON	UNLESS OTHERWISE NOTED	VB	VACUUM BREAKER
V, VAC	VACUUM		LIMITED AREA SPRINKLER HEAD
VTR	VENT THRU ROOF		PETE'S PLUG
		FD-#	FLOOR DRAIN DESIGNATOR
		RD-#	ROOF DRAIN DESIGNATOR
		P-#	PLUMBING FIXTURE DESIGNATOR
		XXX / X	EQUIPMENT TAG DESIGNATOR
		X	TAGGED NOTE DESIGNATOR
		X	REVISION DESIGNATOR
		T / S	TEMPERATURE SENSOR
		T	HOSE BIB
		TMV	

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CMTA F-8627

2025.09.16

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

PLUMBING LEGEND

SHEET NUMBER

P0.00

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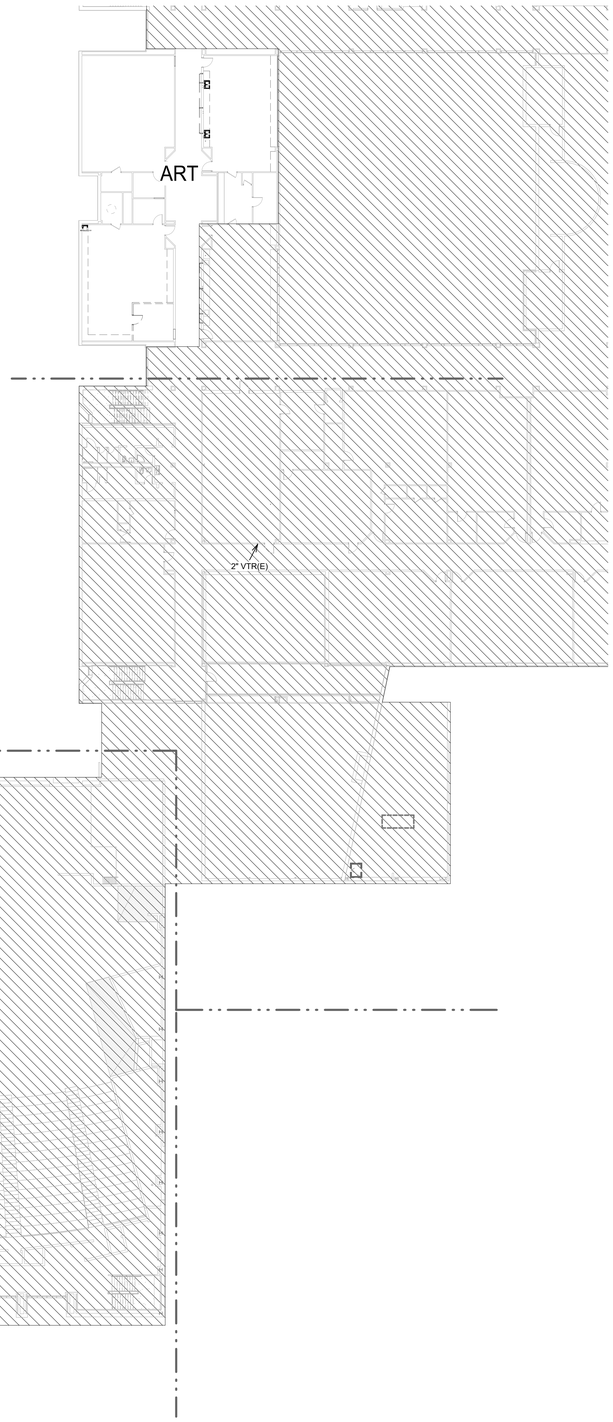
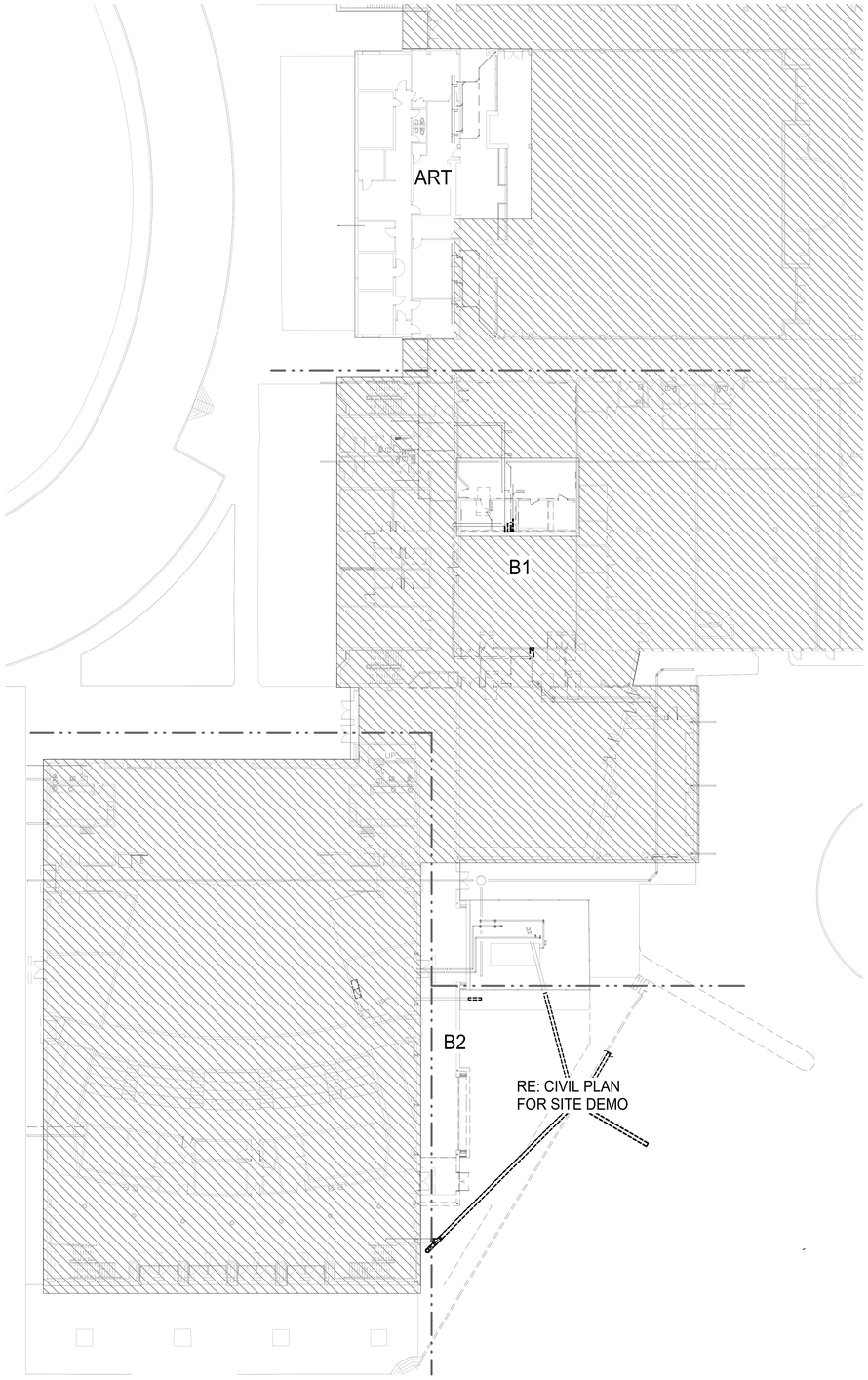


2 LEVEL 2 DEMOLITION PLUMBING PLAN
1" = 20'-0"



1 LEVEL 1 DEMOLITION PLUMBING PLAN
1" = 20'-0"

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
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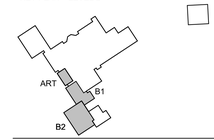
PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE
DEMOLITION PLUMBING PLAN

SHEET NUMBER
P1.10

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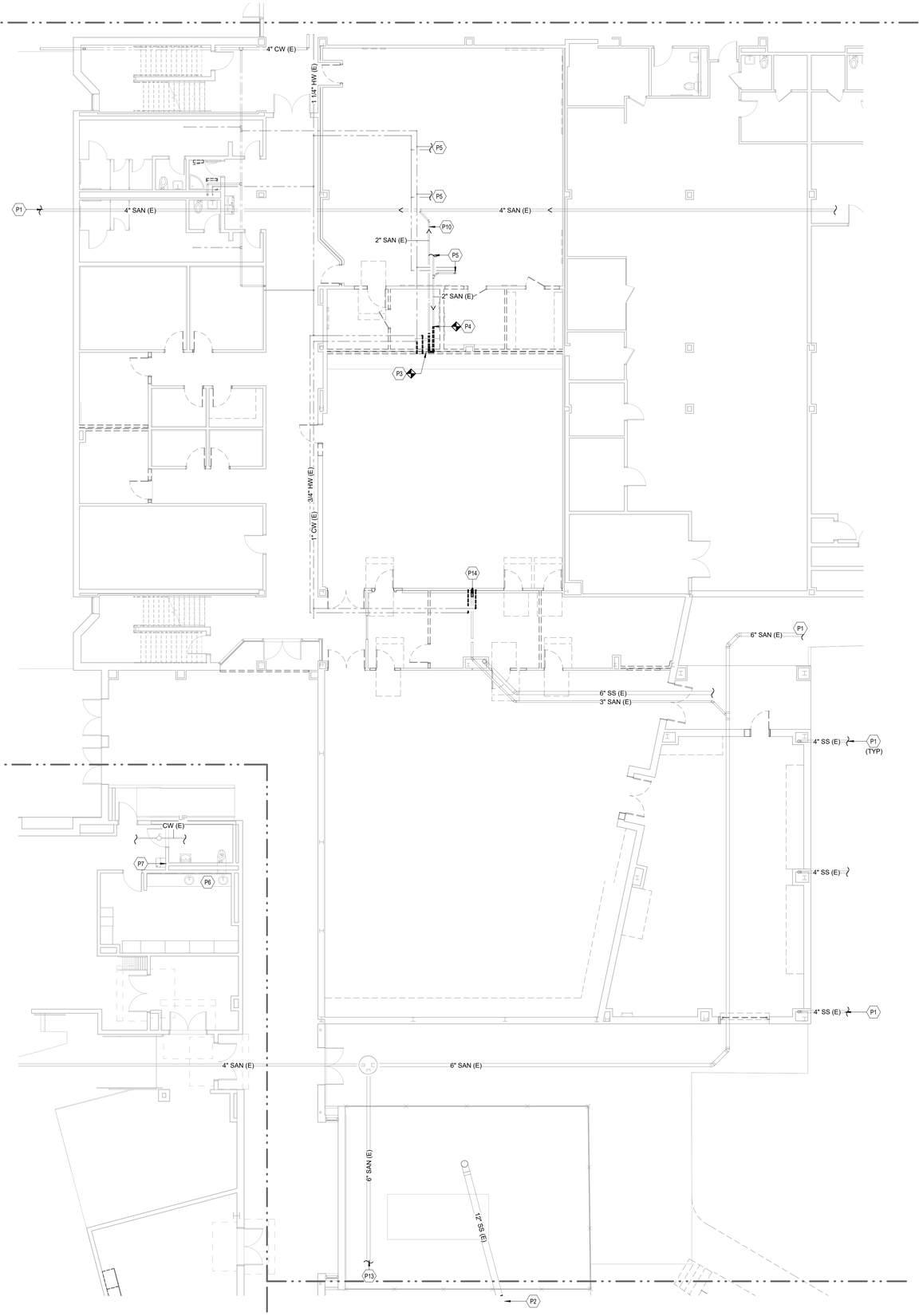

1 LEVEL 1 PLUMBING DEMOLITION PLAN - AREA B1
1/8" = 1'-0"

TAGGED NOTES

P1	EXISTING PLUMBING TO REMAIN, ROUTED OUT TO SITE. EXISTING SHOWN FOR REFERENCE.
P2	EXISTING LINE CAPPED ~5' OUTSIDE OF BUILDING AT CIVIL CONNECTION. EXISTING SITE PIPING, CLEANOUTS AND MANHOLES ARE TO BE DEMOED FROM NEW BUILDING FOOTPRINT AND PIPING IS TO BE RE ROUTED BY PLUMBING. REFER TO CIVIL DEMO PLANS FOR EXISTING SITE DEMO. REFER TO UNDERSLAB PLUMBING PLANS FOR NEW PIPE ROUTE.
P3	EXISTING SINK AND ALL ASSOCIATED PLUMBING IS TO BE DEMOED AND REMOVED FROM WALL. SANITARY IS TO BE CAPPED BELOW SLAB. WATER CAPPED ABOVE CEILING. EXISTING VENT ROUTED UP TO SECOND FLOOR IS TO REMAIN AND CAPPED IN PREPARATION OF NEW FIXTURE CONNECTION.
P4	EXISTING SANITARY SERVING FIXTURES ON SECOND FLOOR IS TO BE CAPPED ABOVE CEILING IN PREPARATION OF RELOCATIONS SANITARY LINE ROUTED BELOW SLAB.
P5	EXISTING SAN SERVING FIXTURES ON SECOND FLOOR IS TO REMAIN.
P6	ALTERNATE #1 - DEMO EXISTING SINK. DISCONNECT ALL ASSOCIATED PIPING. EXISTING PLUMBING IN WALL IS TO REMAIN IN PREPERATION FOR NEW SINK INSTALLATION.
P7	ALTERNATE #2 - DEMO EXISTING DRINKING FOUNTAIN. DISCONNECT ALL ASSOCIATED PIPING. EXISTING PLUMBING IN WALL IS TO REMAIN IN PREPERATION FOR NEW FIXTURE INSTALLATION.
P10	EXISTING PIPING OUT TO SITE. EXISTING SHOWN FOR REFERENCE. REFER TO CIVIL PLANS FOR CONTINUATION AND EXISTING SITE CONDITIONS.
P13	FIELD VERIFY EXISTING SANITARY LINE SIZE, LOCATION AND ROUTE PRIOR TO CONSTRUCTION. IF EXISTING LINE IS ROUTED BELOW NEW BUILDING FOOTPRINT, IT WILL NEED TO BE REROUTED BY PLUMBING AND RECONNECTED TO CIVIL. EXISTING ROUTE IS TO BE COORDINATED WITH ENGINEER AND CIVIL ENGINEER TO CONFIRM IF DEMO AND REROUTE IS REQUIRED.
P14	EXISTING SINK AND ALL ASSOCIATED PLUMBING IS TO BE DEMOED AND REMOVED FROM WALL. SANITARY IS TO BE CAPPED BELOW SLAB. WATER AND VENTING CAPPED ABOVE CEILING. REPATCH FLOOR AS REQUIRED.

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FORT BEND INDEPENDENT SCHOOL DISTRICT 2025 BOND

PROJECT NAME

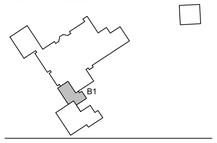
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 DEMOLITION PLUMBING PLAN - AREA B1

SHEET NUMBER

P1.11

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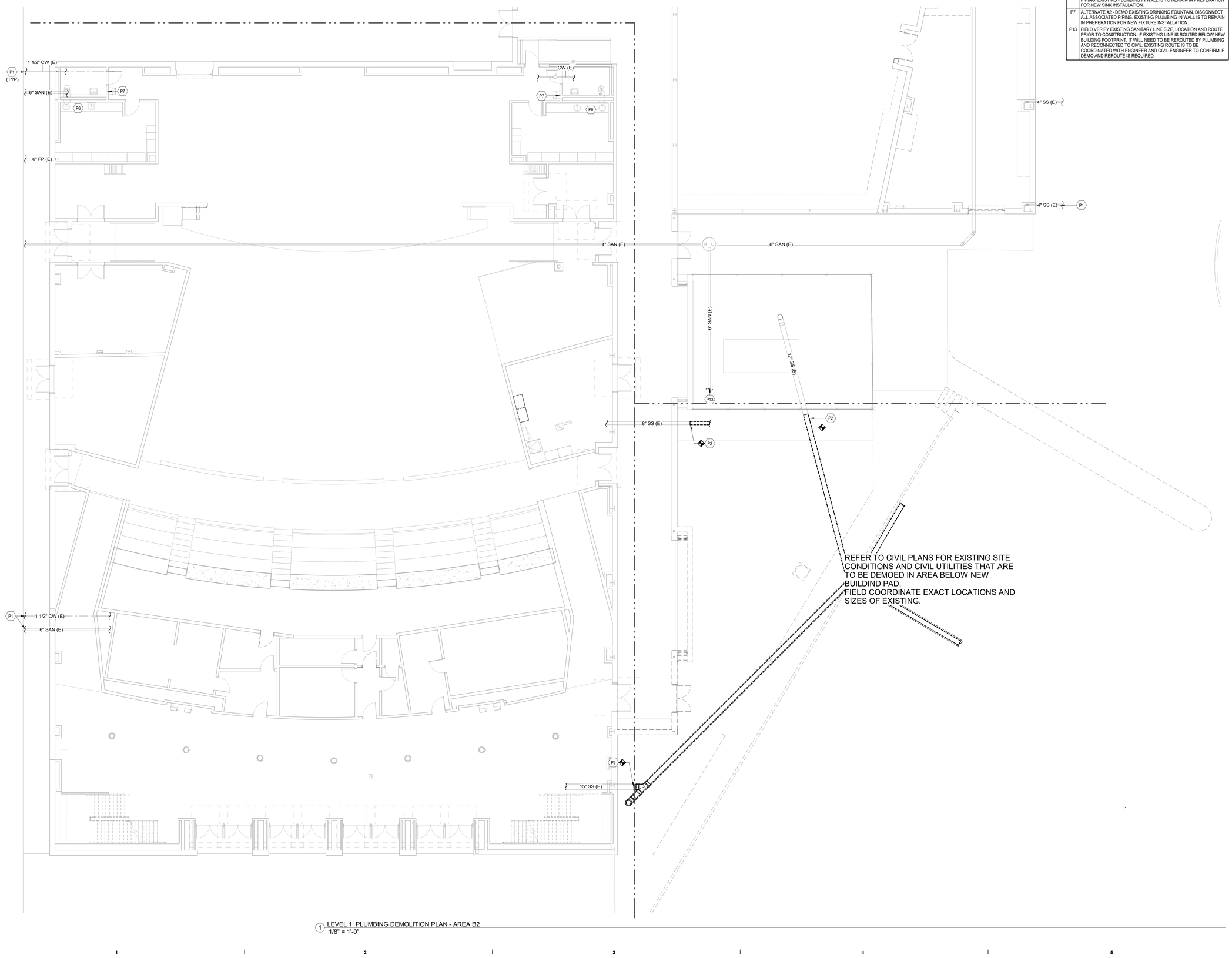

1 LEVEL 1 PLUMBING DEMOLITION PLAN - AREA B2
1/8" = 1'-0"

TAGGED NOTES	##
P1	EXISTING PLUMBING TO REMAIN, ROUTED OUT TO SITE. EXISTING SHOWN FOR REFERENCE.
P2	EXISTING LINE CAPPED ~5' OUTSIDE OF BUILDING AT CIVIL CONNECTION. EXISTING SITE PIPING, CLEANOUTS AND MANHOLES ARE TO BE DEMOED FROM NEW BUILDING FOOTPRINT AND PIPING IS TO BE RE ROUTED BY PLUMBING. REFER TO CIVIL DEMO PLANS FOR EXISTING SITE DEMO. REFER TO UNDERSLAB PLUMBING PLANS FOR NEW PIPE ROUTE.
P6	ALTERNATE #1 - DEMO EXISTING SINK. DISCONNECT ALL ASSOCIATED PIPING. EXISTING PLUMBING IN WALL IS TO REMAIN IN PREPERATION FOR NEW SINK INSTALLATION.
P7	ALTERNATE #2 - DEMO EXISTING DRINKING FOUNTAIN. DISCONNECT ALL ASSOCIATED PIPING. EXISTING PLUMBING IN WALL IS TO REMAIN IN PREPERATION FOR NEW FIXTURE INSTALLATION.
P13	FIELD VERIFY EXISTING SANITARY LINE SIZE, LOCATION AND ROUTE PRIOR TO CONSTRUCTION. IF EXISTING LINE IS ROUTED BELOW NEW BUILDING FOOTPRINT, IT WILL NEED TO BE REROUTED BY PLUMBING AND RECONNECTED TO CIVIL. EXISTING ROUTE IS TO BE COORDINATED WITH ENGINEER AND CIVIL ENGINEER TO CONFIRM IF DEMO AND REROUTE IS REQUIRED.

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KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 DEMOLITION PLUMBING PLAN - AREA B2

SHEET NUMBER

P1.12

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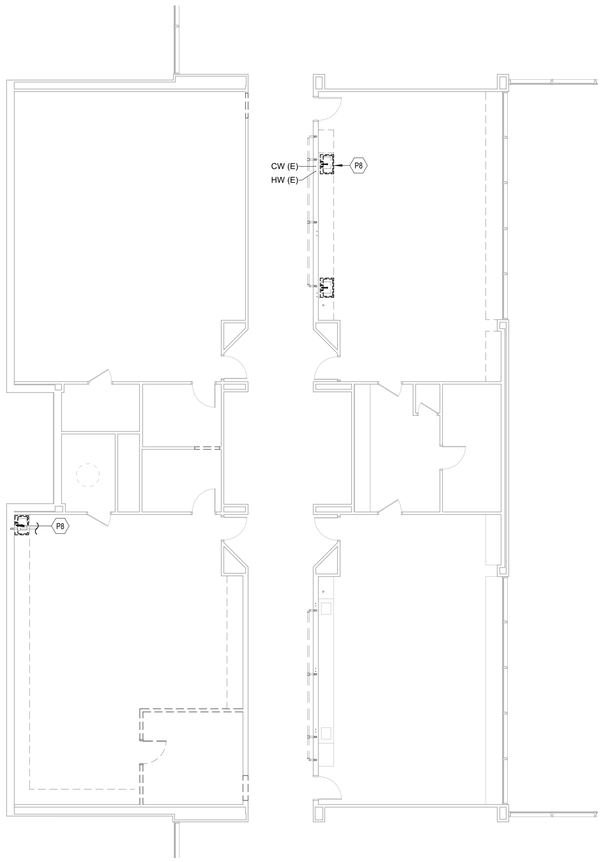
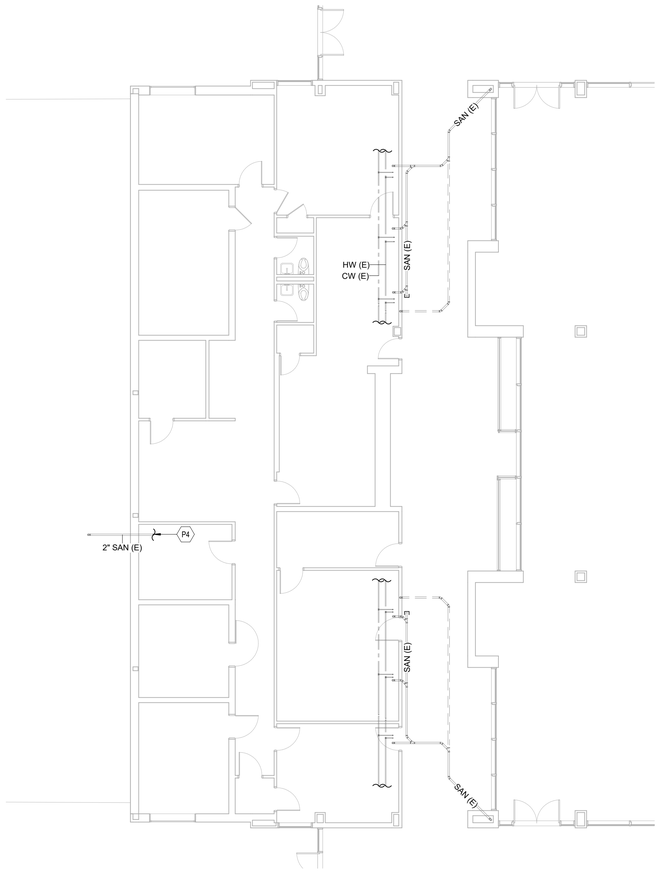
TAGGED NOTES	##
P4	EXISTING SANITARY SERVING FIXTURES ON SECOND FLOOR IS TO BE CAPPED ABOVE CEILING IN PREPARATION OF RELOCATIONS SANITARY LINE ROUTED BELOW SLAB.
P8	DEMO EXISTING SINK AND DISCONNECT ALL ASSOCIATED PIPING. EXISTING PLUMBING IN WALL IS TO REMAIN IN PREPERATION FOR NEW SINK INSTALLATION.



2 LEVEL 2 PLUMBING DEMOLITION PLAN - ART ROOMS
1/8" = 1'-0"



1 LEVEL 1 PLUMBING DEMOLITION PLAN - ART ROOMS
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

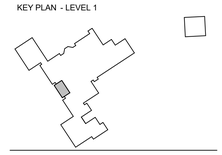
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 & 2 DEMOLITION PLUMBING PLAN - ART ROOMS

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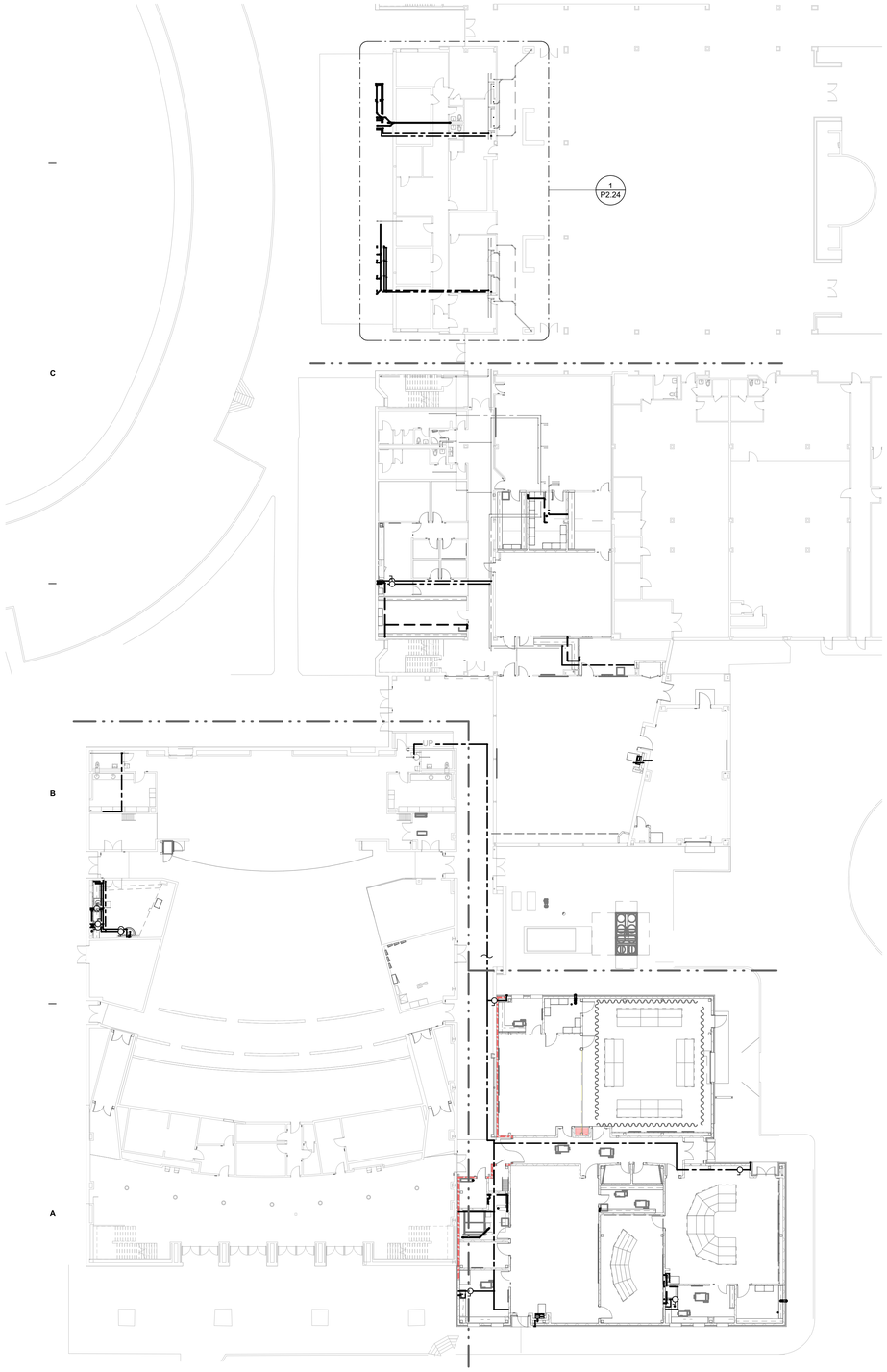
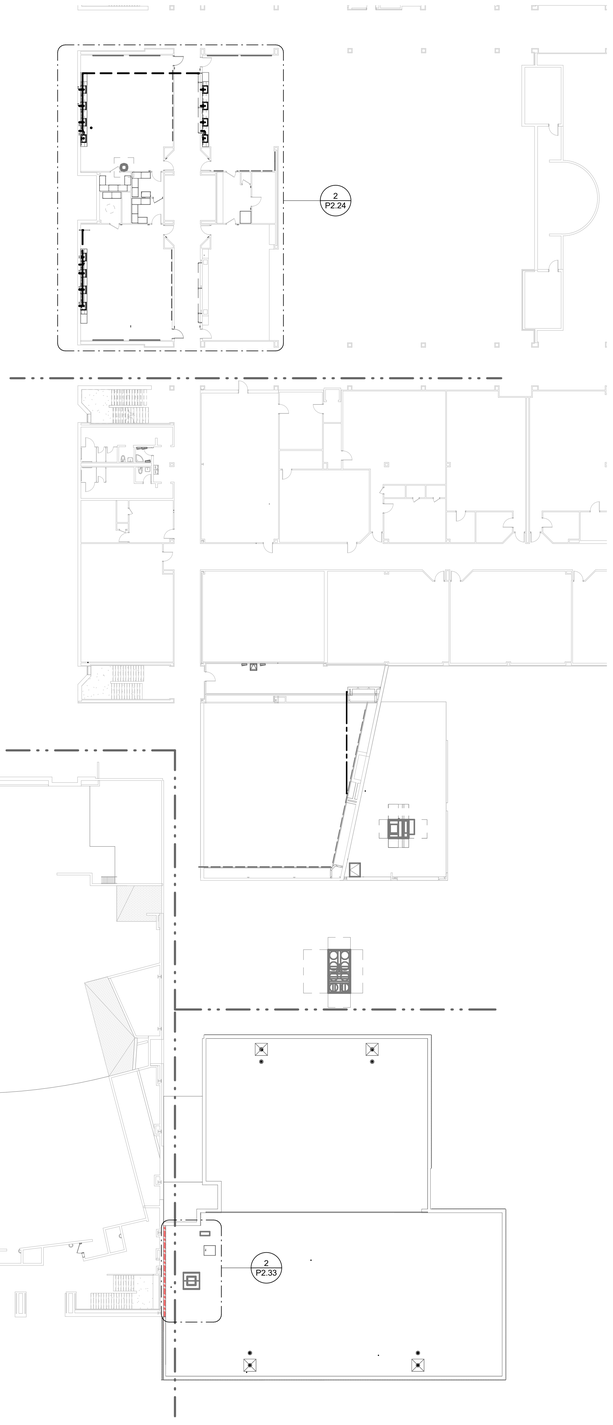


1 LEVEL 1 PLUMBING PLAN
1" = 20'-0"



2 LEVEL 2 PLUMBING PLAN
1" = 20'-0"

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INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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PROJECT ADDRESS

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KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

PLUMBING PLAN

SHEET NUMBER

P2.10

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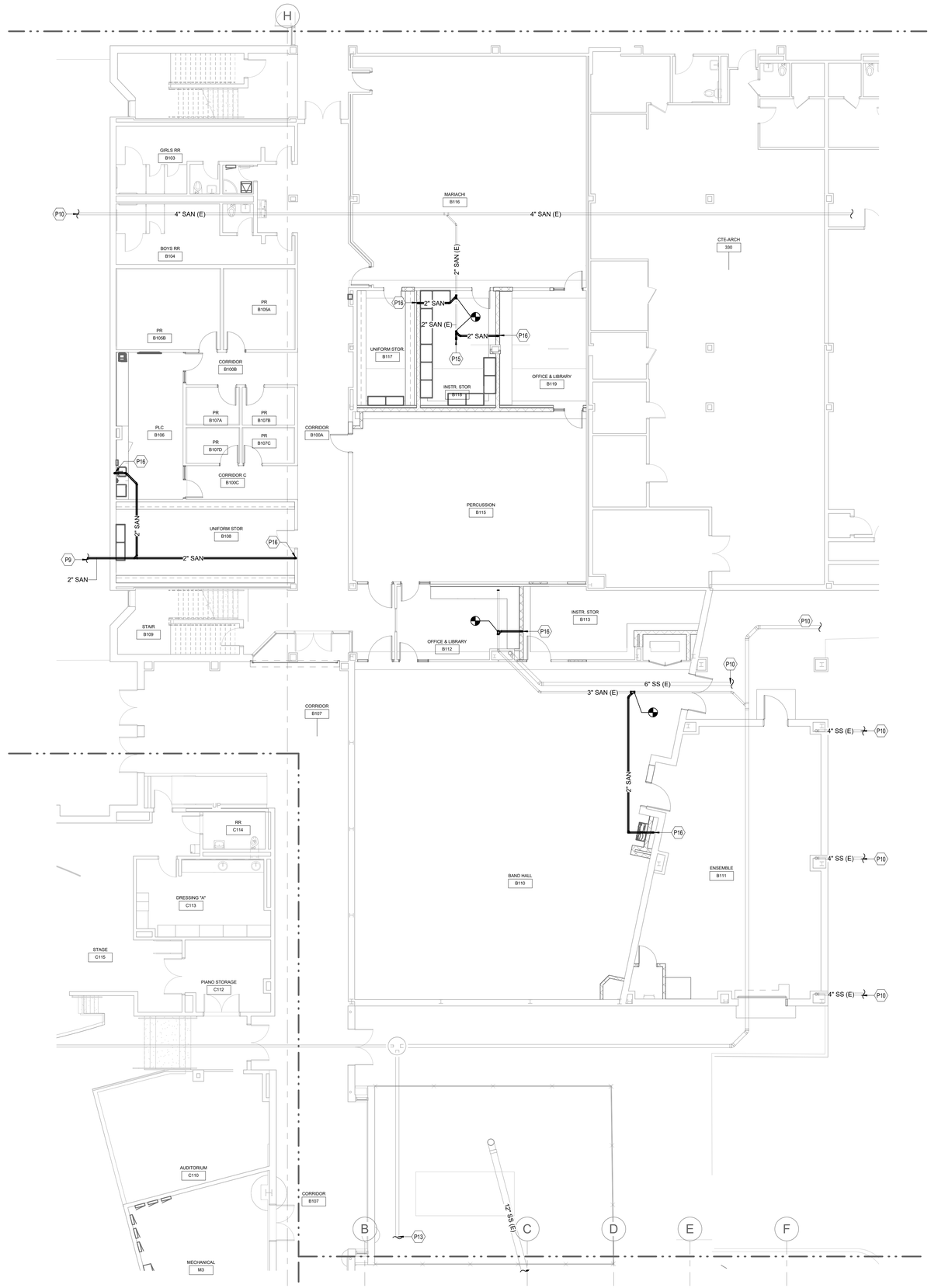

1 LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B1
1/8" = 1'-0"

TAGGED NOTES	##
P9	NEW PIPING ROUTED OUT TO SITE TO CONNECT TO CIVIL. REFER TO CIVIL FOR NEW CONNECTIONS AND CONTINUATION.
P10	EXISTING PIPING OUT TO SITE. EXISTING SHOWN FOR REFERENCE. REFER TO CIVIL PLANS FOR CONTINUATION AND EXISTING SITE CONDITIONS.
P13	FIELD VERIFY EXISTING SANITARY LINE SIZE, LOCATION AND ROUTE PRIOR TO CONSTRUCTION. IF EXISTING LINE IS ROUTED BELOW NEW BUILDING FOOTPRINT, IT WILL NEED TO BE REROUTED BY PLUMBING AND RECONNECTED TO CIVIL. EXISTING ROUTE IS TO BE COORDINATED WITH ENGINEER AND CIVIL ENGINEER TO CONFIRM IF DEMO AND REROUTE IS REQUIRED.
P15	SANITARY DOWN FROM CLEANOUT ABOVE.
P16	2" SANITARY DOWN FROM FIXTURE(S) ABOVE.

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RICHARD LOREY
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CMTA F-8627
2025.09.16

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B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

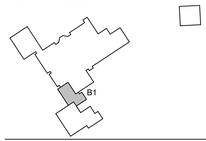
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B1

SHEET NUMBER

P2.21

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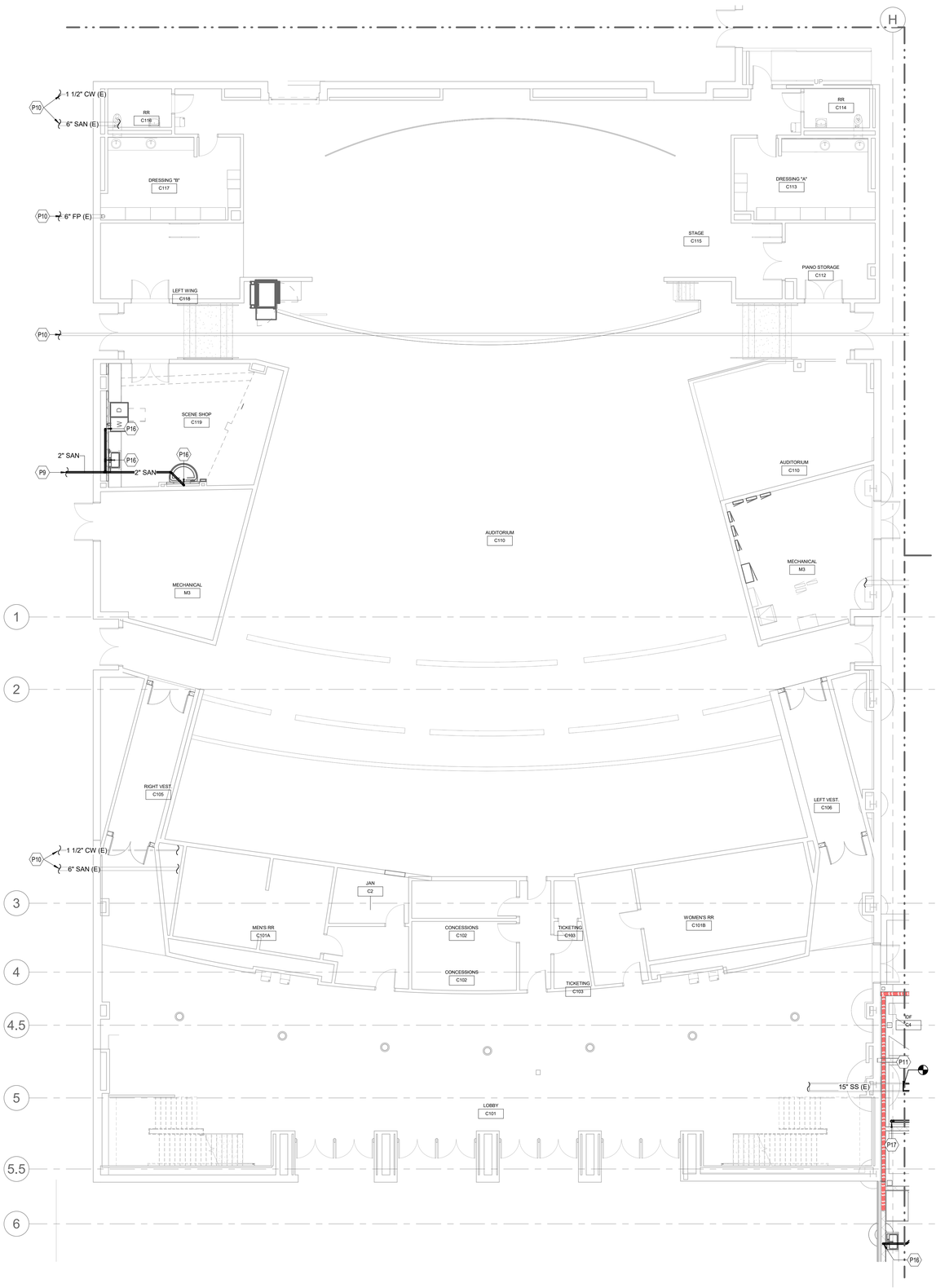
TAGGED NOTES	##
P9	NEW PIPING ROUTED OUT TO SITE TO CONNECT TO CIVIL. REFER TO CIVIL FOR NEW CONNECTIONS AND CONTINUATION.
P10	EXISTING PIPING OUT TO SITE. EXISTING SHOWN FOR REFERENCE. REFER TO CIVIL PLANS FOR CONTINUATION AND EXISTING SITE CONDITIONS.
P11	CONNECT TO EXISTING (CAPPED DURING DEMO) IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION, ELEVATION AND SIZE OF EXISTING PRIOR TO CONSTRUCTION.
P16	2" SANITARY DOWN FROM FIXTURE(S) ABOVE.
P17	3" SANITARY DOWN FROM FIXTURE(S) ABOVE.



1 LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B2
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

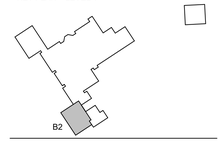
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B2

SHEET NUMBER

P2.22

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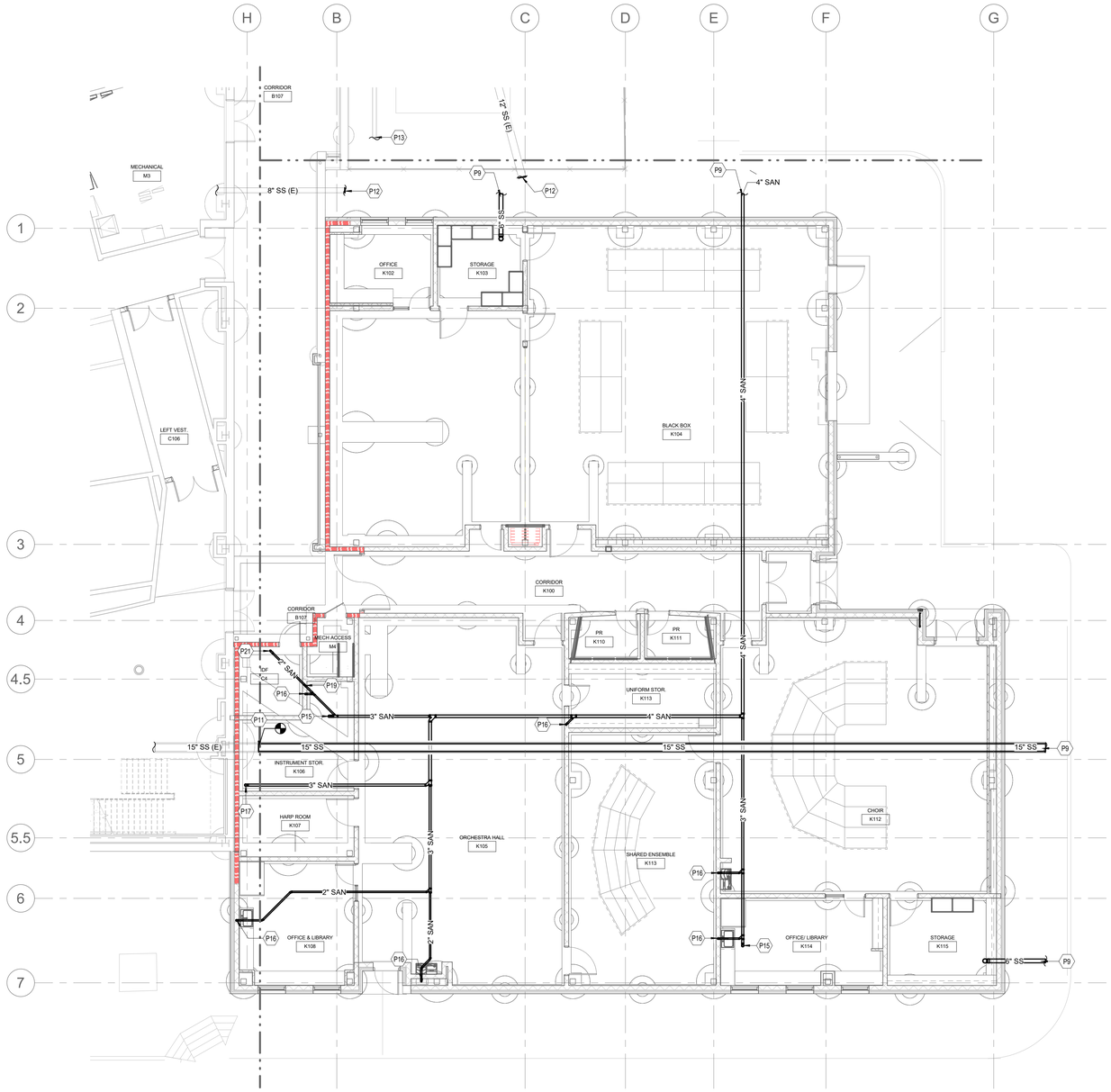
TAGGED NOTES	##
P9	NEW PIPING ROUTED OUT TO SITE TO CONNECT TO CIVIL. REFER TO CIVIL FOR NEW CONNECTIONS AND CONTINUATION.
P11	CONNECT TO EXISTING (CAPPED DURING DEMO) IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION, ELEVATION AND SIZE OF EXISTING PRIOR TO CONSTRUCTION.
P12	EXISTING CAPPED DURING DEMO, NEW CONNECTION TO CIVIL IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION, DEPTH AND SIZE. COORDINATE ANY RE-ROUTING WITH CIVIL AND NEW CONNECTION LOCATION THAT IS REQUIRED. PLUMBER IS TO INSTALL ALL PIPING ALL BELOW AND UP TO ~5' OUTSIDE OF BUILDING FOOTPRINT.
P13	FIELD VERIFY EXISTING SANITARY LINE SIZE, LOCATION AND ROUTE PRIOR TO CONSTRUCTION. IF EXISTING LINE IS ROUTED BELOW NEW BUILDING FOOTPRINT, IT WILL NEED TO BE REROUTED BY PLUMBING AND RECONNECTED TO CIVIL. EXISTING ROUTE IS TO BE COORDINATED WITH ENGINEER AND CIVIL ENGINEER TO CONFIRM IF DEMO AND REROUTE IS REQUIRED.
P15	SANITARY DOWN FROM CLEANOUT ABOVE.
P16	2" SANITARY DOWN FROM FIXTURE(S) ABOVE.
P17	3" SANITARY DOWN FROM FIXTURE(S) ABOVE.
P19	2" VENT UP.
P21	2" TRAPPED DOWN FROM DRAIN ABOVE.



1 LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B3
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 BELOW SLAB PLUMBING PLAN - AREA B3

SHEET NUMBER

P2.23

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TAGGED NOTES	##
P15	SANITARY DOWN FROM CLEANOUT ABOVE.
P16	2" SANITARY DOWN FROM FIXTURE(S) ABOVE.
P30	CONNECT NEW TO EXISTING OF SAME SIZE OR GREATER, IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO CONSTRUCTION.
P35	1/2" CW AND HW ROUTED UP TO SERVE FIXTURE ON FLOOR ABOVE. CONNECT PER PLUMBING FIXTURE SCHEDULE AND DETAILS.
P36	1/2" CW AND HW ROUTED UP FROM FLOOR BELOW.
P37	CONNECT NEW SINK TO EXISTING SAN, VT, CW AND HW PIPING IN AREA. FIELD COORDAINTE EXACT LOCATION AND REQUIRED ROUTE TO EACH FIXTURE.

1 LEVEL 1 PLUMBING PLAN - ART ROOMS
1/8" = 1'-0"

2 LEVEL 2 PLUMBING PLAN - ART ROOMS
1/8" = 1'-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LEVEL 1 & 2 PLUMBING PLAN - ART ROOMS

SHEET NUMBER

P2.24

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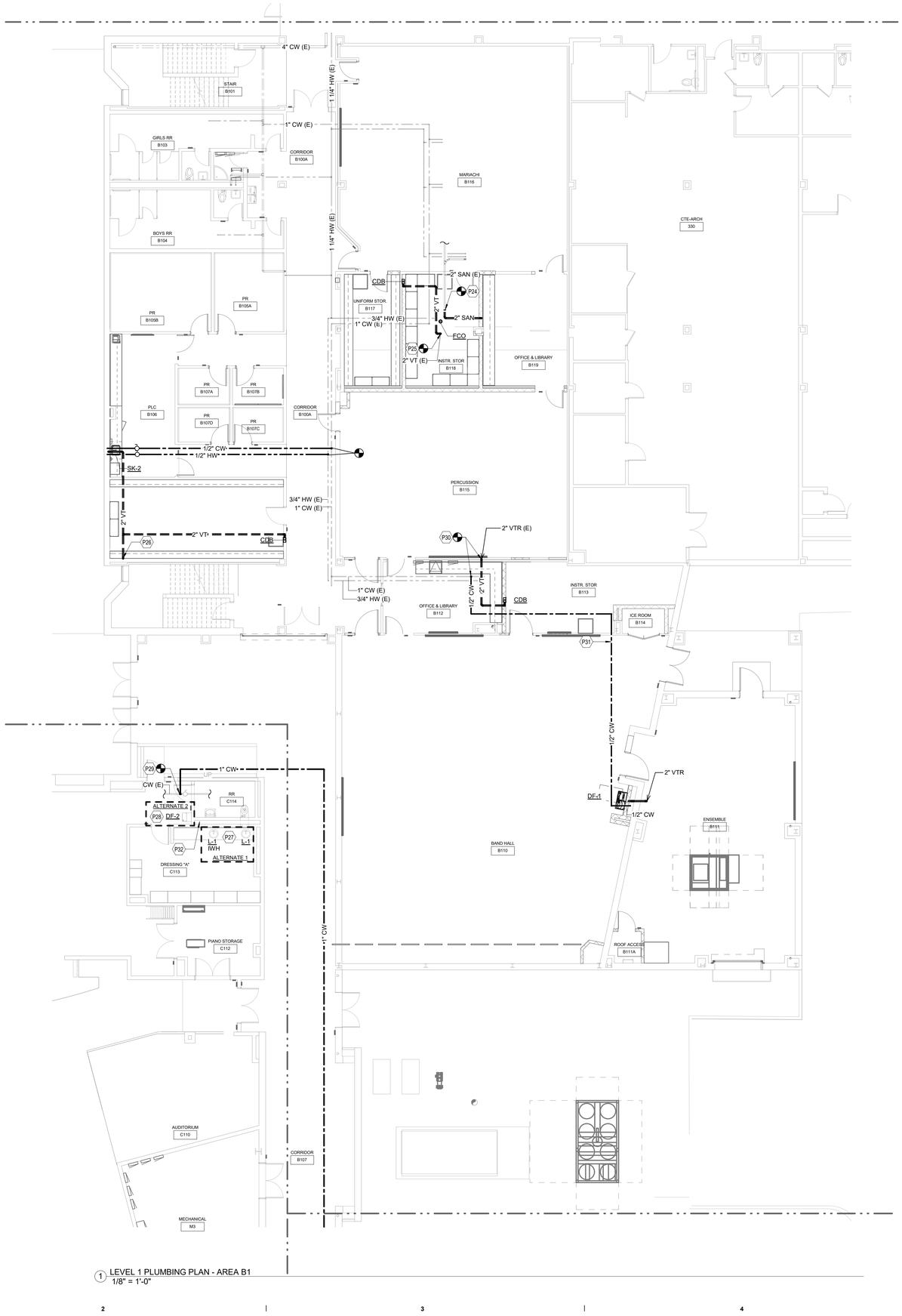

1 LEVEL 1 PLUMBING PLAN - AREA B1
1/8" = 1'-0"

TAGGED NOTES	##
P24	EXISTING SANITARY RE-ROUTED DOWN TO BELOW SLAB.
P25	NEW VENT PIPING TO CONNECT TO EXISTING VTR.
P26	2" VENT ROUTED UP THROUGH WALL ON FLOOR ABOVE. VENT IS TO BE ROUTED UP AND VENT THROUGH ROOF.
P27	ALTERNATE #1 - CONNECT NEW SINK TO EXISTING PIPING CAPPED DURING DEMO. CONNECTED NEW POINT OF USE WATER HEATER TO SINKS ARE REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
P28	ALTERNATE #2 - CONNECT NEW DRINKING FOUNTAIN TO EXISTING PIPING CAPPED DURING DEMO.
P29	CONNECT TO EXISTING CW PIPING OF 1" OR GREATER. CONNECTION IS TO BE PRIOR TO THE SHUT-OFF VALVE SERVING RESTROOM OR OTHER FIXTURES IN THIS AREA. FIELD VERIFY EXACT SIZE, LOCATION AND ROUTE OF EXITING CW PRIOR TO CONSTRUCTION. CONNECTION LOCATION AND ROUTE ARE TO BE MODIFIED AS REQUIRED.
P30	CONNECT NEW TO EXISTING OF SAME SIZE OR GREATER, IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO CONSTRUCTION.
P31	PIPING ROUTED UP AND OVER HIGH CEILING AREA. COORDINATE WITH ARCHITECTUAL CEILING HEIGHTS.
P32	MECHANICAL CONDENSATE DRAIN LINE IS TO BE ROUTED DOWN INTO CHASE THEN THROUGH WALL TO CONNECT TO LAVATORY DRAIN LINE VIA WYE BRANCH TAIL PIECE. FIELD COORDINATE EXACT LOCATIONS OF EXISTING LAV DRAIN LINE AND MODIFY AS REQUIRED. REFER MECHANICAL DRAWINGS AND COORINDATE WITH MECHANICAL CONTRACTOR.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

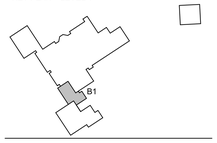
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 PLUMBING PLAN - AREA B1

SHEET NUMBER

P2.31

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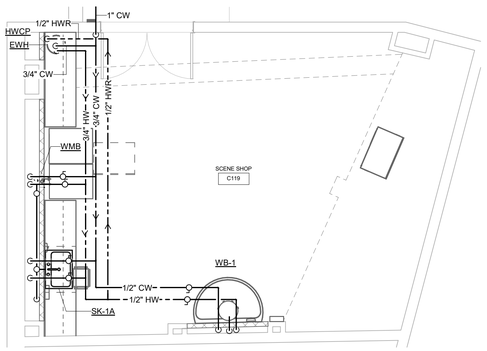
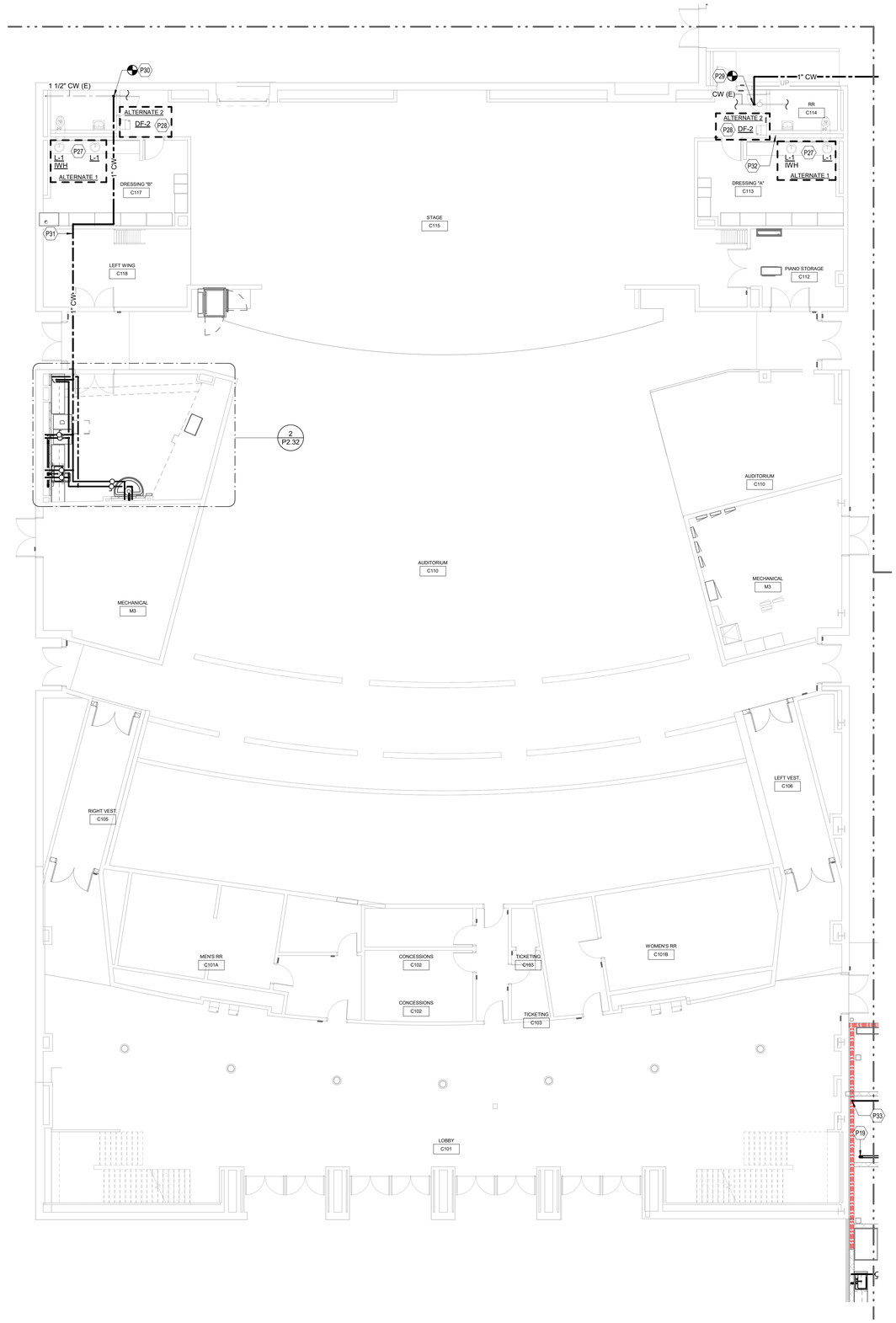


2 PLUMBING PLAN - SCENE SHOP C119
1/4" = 1'-0"



1 LEVEL 1 PLUMBING PLAN - AREA B2
1/8" = 1'-0"

TAGGED NOTES	##
P19	2" VENT UP.
P27	ALTERNATE #1 - CONNECT NEW SINK TO EXISTING PIPING CAPPED DURING DEMO. CONNECTED NEW POINT OF USE WATER HEATER TO SINKS ARE REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
P28	ALTERNATE #2 - CONNECT NEW DRINKING FOUNTAIN TO EXISTING PIPING CAPPED DURING DEMO.
P29	CONNECT TO EXISTING CW PIPING OF 1" OR GREATER. CONNECTION IS TO BE PRIOR TO THE SHUT-OFF VALVE SERVING RESTROOM OR OTHER FIXTURES IN THIS AREA. FIELD VERIFY EXACT SIZE, LOCATION AND ROUTE OF EXITING CW PRIOR TO CONSTRUCTION. CONNECTION LOCATION AND ROUTE ARE TO BE MODIFIED AS REQUIRED.
P30	CONNECT NEW TO EXISTING OF SAME SIZE OR GREATER, IN APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO CONSTRUCTION.
P31	PIPING ROUTED UP AND OVER HIGH CEILING AREA. COORDINATE WITH ARCHITECTUAL CEILING HEIGHTS.
P32	MECHANICAL CONDENSATE DRAIN LINE IS TO BE ROUTED DOWN INTO CHASE THEN THROUGH WALL TO CONNECT TO LAVATORY DRAIN LINE VIA WYE BRANCH TAIL PIECE. FIELD COORDINATE EXACT LOCATIONS OF EXISTING LAV DRAIN LINE AND MODIFY AS REQUIRED. REFER MECHANICAL DRAWINGS AND COORINDATE WITH MECHANICAL CONTRACTOR.
P33	CW ROUTED UP TO MECH ROOM ABOVE.

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RICHARD LOREY
105438
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2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

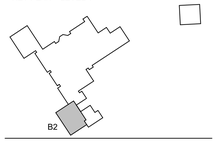
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 PLUMBING PLAN - AREA B2

SHEET NUMBER

P2.32

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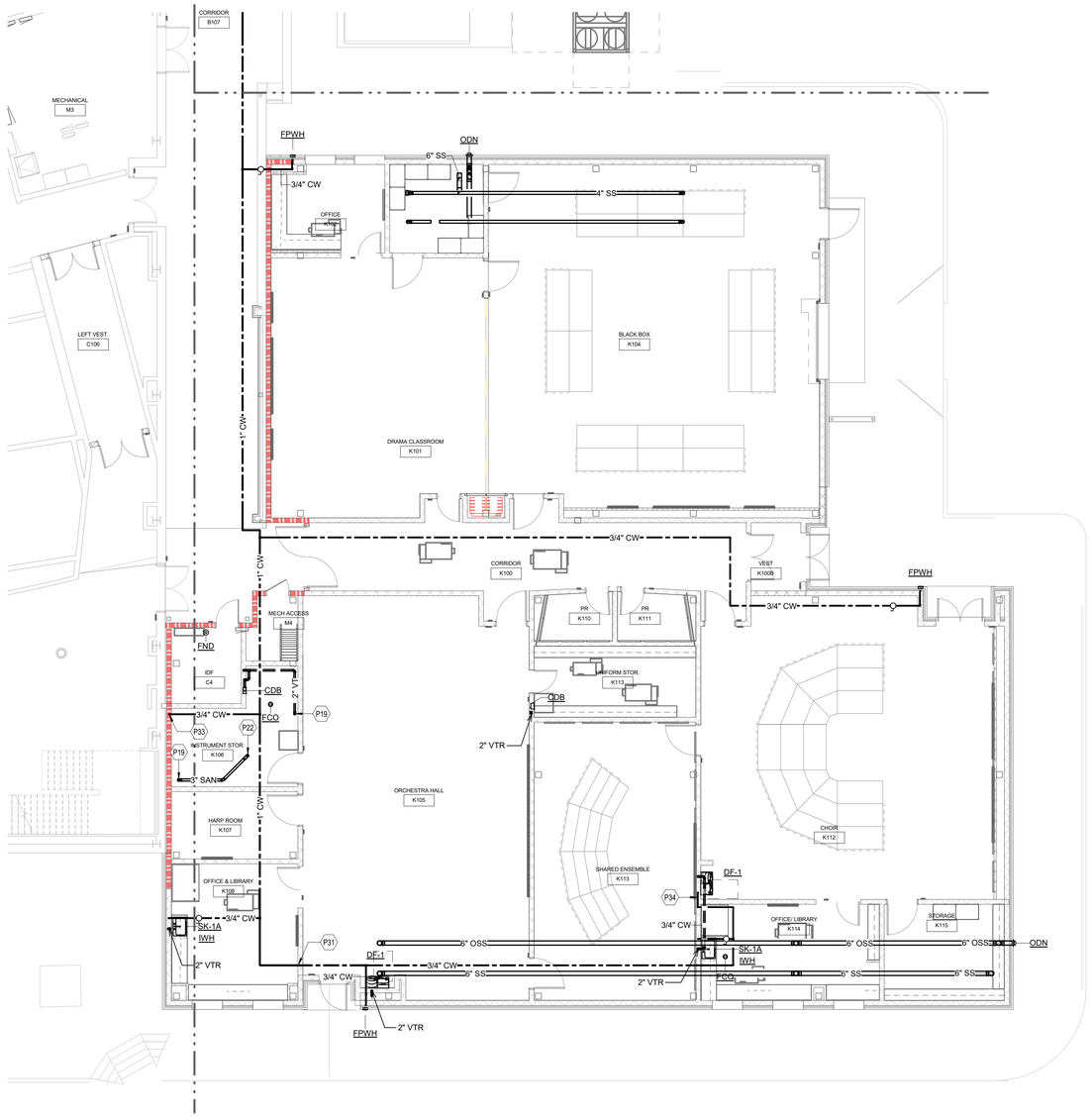
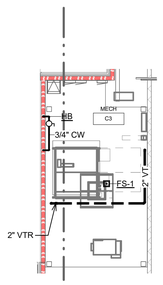
TAGGED NOTES	##
P19	2" VENT UP.
P22	3" TRAPPED DOWN FROM DRAIN ABOVE.
P31	PIPING ROUTED UP AND OVER HIGH CEILING AREA. COORDINATE WITH ARCHITECTUAL CEILING HEIGHTS.
P33	CW ROUTED UP TO MECH ROOM ABOVE.
P34	CW ROUTED THROUGH WALL OVER TO FIXTURE. CONNECT PER PLUMBING FIXTURE SCHEDULE AND DETAILS.



1 LEVEL 1 PLUMBING PLAN - AREA B3
1/8" = 1'-0"



2 PLUMBING PLAN - MECH C3
1" =1'0"-0"

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1

SHEET TITLE

LEVEL 1 PLUMBING PLAN - AREA B3

SHEET NUMBER

P2.33

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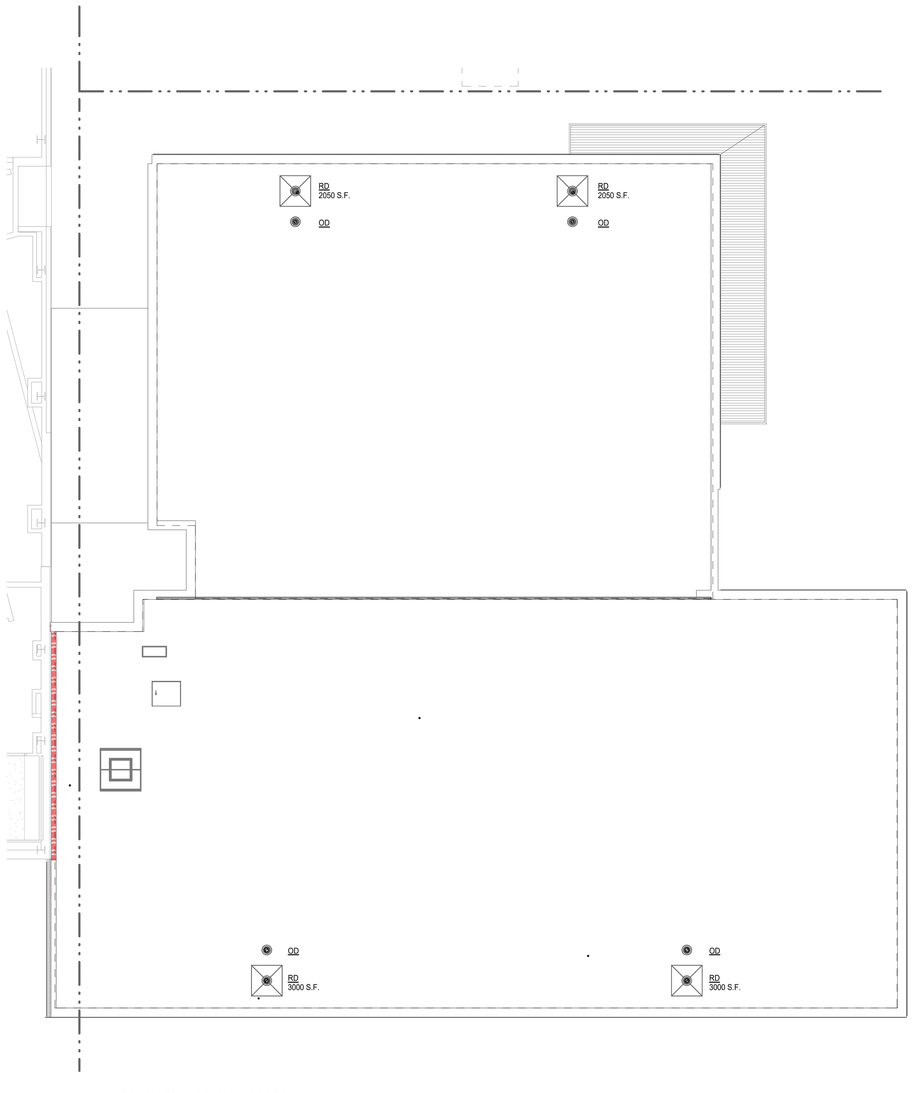
TAGGED NOTES



1 ROOF PLUMBING PLAN - AREA B3
1/8" = 1'-0"

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ROOF PLAN - PLUMBING

SHEET NUMBER

P2.43

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PUMP SCHEDULE

TAG	DESCRIPTION	MANUFACTURER & MODEL NO.	LOCATION	TYPE	GPM	DESIGN HEAD FT.	SHUT OFF HD. FT.	BHP	HP	RPM	ELECTRICAL			REMARKS
											VOLTS	PH	Hz	
HWCP	DOMESTIC CIRCULATING PUMP	GRUNDFOS MAGNA 3-32-60	xx	INLINE	4	10	-	1/20	1/12	2,950	115	1	60	PUMP TO BE STAINLESS STEEL TO MEET THE LOW THE LOW LEAD REQUIREMENTS. RE-CIRCULATING PUMPS SHALL BE CONTROLLED BY THE BUILDING'S AUTOMATED SYSTEM. PUMPS TO BE SET TO TURN OFF DURING NON OPERATIONAL HOURS.

WATER HEATER SCHEDULE

TAG	DESCRIPTION	MANUFACTURER & MODEL NO.	LOCATION	INPUT (CFH)	CAPACITY (GAL)	RECOVERY GPH AT 80° F. RISE	TYPE GAS/KW	ELECTRICAL			REMARKS
								VOLTS	PH	Hz	
EWH-1	ELECTRIC WATER HEATER	A.O. SMITH DEN-20	xx	-	20 GALLON	15 GALLONS	ELECTRIC 3 KW	208	1	60	DUAL 3.0 KW ELEMENTS, WIRED FOR NON SIMULTANEOUS OPERATION AND COMPLETE WITH TEMPERATURE AND PRESSURE RELIEF VALVE. SET TEMPERATURE TO MAINTAIN 140 DEGREES. WESSELS NO.T-x x GALLON NON-ASME DIAPHRAGM TYPE PRE-CHARGED THERMAL EXPANSION TANK.

DOMESTIC HOT WATER HEATING NOTES:

1. PROVIDE THERMAL EXPANSION TANK IN PIPING AS REQUIRED BY LOCAL ENERGY CODES.
2. RECOVERY RATE IS BASED ON 80° DEGREE FAHRENHEIT TEMPERATURE RISE
3. HEAT TRAPS SHALL BE INSTALLED ON ALL NON-CIRCULATING WATER HEATERS PER THE 2021 IECC (INTERNATIONAL ENERGY CONSERVATION CODE). PROVIDE AND INSTALL HEAT TRAPS IN THE INLET AND OUTLET PIPING OF THE WATER HEATER(S).
4. WATER HEATING PIPING SHALL BE INSULATED PER 2021 IECC (INTERNATIONAL ENERGY CONSERVATION CODE).
5. HOT WATER SYSTEMS THAT CIRCULATE HOT WATER SHALL HAVE AND AUTOMATIC CONTROL (AUTOMATIC TIME CLOCK) THAT IS CAPABLE OF TURNING THE PUMP OFF DURING THE PERIODS OF NON USE.
6. CONTROLS WILL SHUT-OFF OPERATION OF CIRCULATING PUMP BETWEEN WATER HEATER AND STORAGE TANKS WITHIN 5 MINUTES AFTER END OF HEATING CYCLE.

PIPING MATERIAL SCHEDULE

1. SANITARY SOIL, WASTE AND VENT BURIED:
   PVC PIPE SCHEDULE 40, DWV WITH SOLVENT WELD JOINTS.
   FOR PIPING REPAIRS USE ANACO-HUSKY "CR 7000", 316 SS CORROSION RESISTANT COUPLINGS.
2. SANITARY SOIL, WASTE AND VENT ABOVE FLOOR SLAB ON GRADE:
   NO-HUB CAST IRON PIPE AND FITTINGS WITH HUSKY "HD-2000", SERIES NO-HUB COUPLINGS
3. STORM PIPING BURIED:
   PVC PIPE SCHEDULE 40, DWV WITH SOLVENT WELD JOINTS.
   FOR PIPING REPAIRS USE ANACO-HUSKY "CR 7000", 316 SS CORROSION RESISTANT COUPLINGS.
4. STORM PIPING ABOVE FLOOR SLAB ON GRADE:
   NO-HUB CAST IRON PIPE AND FITTINGS WITH HUSKY "HD-2000", SERIES NO-HUB COUPLINGS
5. DOMESTIC WATER BELOW SLAB ON GRADE:
   UPANOR PEX-a PIPE TUBING FOR 2" AND SMALLER JOINED WITH LEAD-FREE BRASS OR ENGINEERED POLMER (EP) FITTINGS MANUFACTURED BY THE PIPE MANUFACTURER. UTILIZING COLD-EXPANSION PEX-a REINFORCING RINGS MADE OF THE SAME MATERIAL AS PIPE. FITTINGS SHALL BE THIRD PARTY CERTIFIED TO NSF-14, AND ASTM-F 1960 AND SHALL COMPLY TO ASTM-F876 AND ASTM-F877. TRANSITION FITTINGS TO BE PEX TO PRESS ON-PIECE LEAD FREE BRASS FITTING WITH ON ASME B16.51 COPPER PRESS END AND ONE ASTM F 1960 COLD-EXPANSION END, WITH PEX-a REINFORCING COLD EXPANSION RING.
   2-1/2" AND LARGER TYPE "K" COPPER TUBING WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS.
   ALL PIPING TO BE PROTECTED INSIDE A PVC SLEEVE.
6. DOMESTIC WATER ABOVE FLOOR SLAB ON GRADE:
   UPANOR PEX-a PIPE TUBING FOR 3" AND SMALLER JOINED WITH LEAD-FREE BRASS OR ENGINEERED POLMER (EP) FITTINGS MANUFACTURED BY THE PIPE MANUFACTURER. UTILIZING COLD-EXPANSION PEX-a REINFORCING RINGS MADE OF THE SAME MATERIAL AS PIPE. FITTINGS SHALL BE THIRD PARTY CERTIFIED TO NSF-14, AND ASTM-F 1960 AND SHALL COMPLY TO ASTM-F876 AND ASTM-F877. TRANSITION FITTINGS TO BE PEX TO PRESS ON-PIECE LEAD FREE BRASS FITTING WITH ON ASME B16.51 COPPER PRESS END AND ONE ASTM F 1960 COLD-EXPANSION END, WITH PEX-a REINFORCING COLD EXPANSION RING.
   4" AND LARGER TYPE "L" COPPER TUBING TO BE ROLLED GROOVED ENDS AND JOINED WITH VICTAULIC DOMESTIC MANUFACTURER COPPER FITTINGS WITH GROOVED ENDS.
   REFER TO SHEET P-604 FOR SUPPORT INSTALLATON DETAILS.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	SIZE OF CONNECTION					REMARKS
		TRAP	SAN	VT	CW	HW	
SK-1	SINK - SINGLE COMPARTMENT	1 1/2"	2"	2"	1/2"	1/2"	JUST SL-1921-A-GR, SINGLE COMPARTMENT STAINLESS STEEL SINK, 19" X 21" X 7.5" DEEP, 18 GAUGE, TYPE 304 STAINLESS STEEL WITH 3-HOLE FAUCET PUNCHING AT REAR. LOCATE DRAIN AT CENTER REAR ZURN NO. Z831C4-XL-17F WIDESPREAD GOOSENECK FAUCET WITH 8" SPOUT, 1.5 GPM AERATOR, 4" VR COLOR CODED WRIST BLADES, CERAMIC DISC CARTRIDGE, WITH CHROME FINISH. JUST NO. J-35 (QUANTITY-1) STRAINER WITH 1 1/2" TAILPIECE. MCGUIRE NO. 8912 1-1/2" ADJUSTABLE SEMI-CAST CHROME-PLATED BRASS P-TRAP WITH TUBING WASTE TO WALL AND CHROME-PLATED CAST WALL FLANGE WITH SET SCREW. MCGUIRE NO. LF2165LK (QUANTITY-2) LOOSE KEY ANGLE STOPS WITH SUPPLIES. PROVIDE TMV-1 MIXING VALVE.
SK-1A	SINK - SINGLE COMPARTMENT	1 1/2"	2"	2"	1/2"	1/2"	JUST SL-1921-A-GR, SINGLE COMPARTMENT STAINLESS STEEL SINK, 19" X 21" X 5" DEEP, 18 GAUGE, TYPE 304 STAINLESS STEEL WITH 3-HOLE FAUCET PUNCHING AT REAR. LOCATE DRAIN AT CENTER REAR ZURN NO. Z831C4-XL-17F WIDESPREAD GOOSENECK FAUCET WITH 8" SPOUT, 1.5 GPM AERATOR, 4" VR COLOR CODED WRIST BLADES, CERAMIC DISC CARTRIDGE, WITH CHROME FINISH. JUST NO. J-35 (QUANTITY-1) STRAINER WITH 1 1/2" TAILPIECE. MCGUIRE NO. 8912 1-1/2" ADJUSTABLE SEMI-CAST CHROME-PLATED BRASS P-TRAP WITH TUBING WASTE TO WALL AND CHROME-PLATED CAST WALL FLANGE WITH SET SCREW. MCGUIRE NO. LF2165LK (QUANTITY-2) LOOSE KEY ANGLE STOPS WITH SUPPLIES. PROVIDE TMV-1 MIXING VALVE. TRAP WRAP KIT...***
SI	SOLIDS INTERCEPTOR	1 1/2"	2"	2"			ZURN Z1180 POINT OF USE SOLIDS INTERCEPTOR
DF-1	DRINKING FOUNTAIN	1 1/2"	2"	2"	1/2"	-	ELKAY NO. EMABFTL BI-LEVEL, STAINLESS STEEL CONSTRUCTION DRINKING FOUNTAIN WITH FLEXIBLE GUARD BUBBLER, WATER FILTER AND LEAD FILTER OPTIONS. DRINKING FOUNTAIN TO BE REFRIGERATED WITH 115V/1/60 POWER. DRINKING FOUNTAIN TO BE PROVIDED WITH EZH20 BOTTLE FILLING STATION. MCGUIRE NO. HST02 STOP VALVE FOR COLD WATER SUPPLY.
DF-2 ALTERNATE #2	SINGLE STATION DRINKING FOUNTAIN	1 1/2"	2"	2"	1/2"	-	ELKAY NO. XX, STAINLESS STEEL CONSTRUCTION DRINKING FOUNTAIN WITH FLEXIBLE GUARD BUBBLER, WATER FILTER AND LEAD FILTER OPTIONS. DRINKING FOUNTAIN TO BE REFRIGERATED WITH 115V/1/60 POWER. DRINKING FOUNTAIN TO BE PROVIDED WITH EZH20 BOTTLE FILLING STATION. MCGUIRE NO. HST02 STOP VALVE FOR COLD WATER SUPPLY.
IWH	INSTA WATER HEATER	-	-	-	1/2"	1/2"	EEMAX LAVADVANTAGE NO. SPEX4277T ML - TANKLESS WATER HEATER, MULTIPLE LAVATORY WITH FACTORY SET 110 F MAX TEMP. 0.2 GPM TURN ON, 80 DEGREE RISE AT 0.35 GPM FLOW. VOLTS 277/SINGLE PHASE/4.1 KW.

PLUMBING DRAINS SPECIFICATION / CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	SIZE OF CONNECTION					REMARKS
		TRAP	SS	SV	CW	HW	
FND	FLOOR DRAIN WITH FUNNEL						WADE NO. 1100-WW-85-A6 FLOOR DRAIN WITH 6" ROUND STAINLESS STEEL GRATE AND CLAMP, INTERGRAL FUNNEL TOP ASSEMBLY PLUG TRAP PRIMER CONNECTION IF NOT USED.
FS-1	FLOOR SINK						WADE NO. 9130-1-26, 12" SQUARE, 6" DEEP CAST IRON BODY AND SQUARE LIGHT DUTY GRATE WITH ACID RESISTANT PORCELAIN ENAMEL INTERIOR AND NICKEL BRONZE TOP GRATE. LOOSE SET DOME STRAINER AND 1/2 TOP GRATE.
RD	ROOF DRAIN	-	-	-	-	-	WADE NO. 3000-42 15" DIAMETER ROOF DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON-DOME PROVIDE EXTENSION, ROOF SUMP RECEIVER, AND UNDERDECK CLAMP AS REQUIRED FOR ROOF CONSTRUCTION
OD	OVERFLOW ROOF DRAIN	-	-	-	-	-	WADE NO. 3000-42-D 15" DIAMETER ROOF DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME PROVIDE EXTENSION, ROOF SUMP RECEIVER, 2" HIGH EXTERNAL WATER DAM, AND UNDERDECK CLAMP AS REQUIRED FOR ROOF CONSTRUCTION.
ODN	DOWNSPOUT NOZZEL	-	-	-	-	-	WADE NO. 3940-1-[166], DOWN SPOUT NOZZLE, ALL NICKEL BODY WITH DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE. [WITH REMOVABLE STAINLESS STEEL SCREEN.]
OTG	ODOR TRAP GUARD LOCATION: ALL DRAINS U.N.O.	-	-	-	-	-	PROSET TRAP GUARD, VERIFY AND PROVIDE THE PROPER TRAP GUARD FOR EACH DRAIN.
FCO	FLOOR CLEANOUT						WADE NO. 6000-1, ADJUSTABLE FLOOR CLEANOUTS, POLISHED NICKEL BRONZE TOP. DURA-COATED C.I. BODY WITH GAS AND WATER TIGHT ABS THREADED PLUG AND ROUND SCORIATED TOP. PROVIDE A CARPET MARKER AS REQUIRED. PROVIDE A ROUND TOP RECESSED FOR 1/8" TILE AS REQUIRED. PROVIDE A ROUND TOP RECESSED FOR 1-1/4" TERRAZZO AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COORDINATE FINISHES WHERE CLEANOUTS ARE INSTALLED PER ARCHITECTURAL DRAWINGS.
ECO	EXTERIOR CLEANOUT						WADE NO. 6000-12, ADJUSTABLE FLOOR CLEANOUT, DURA-COATED C.I. BODY WITH GAS AND WATER TIGHT THREADED PLUG AND ROUND SCORIATED TOP.
WCO	WALL CLEANOUT						WADE NO. 8560-75-NH, CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRONZE PLUG. WADE NO. 8340 ROUND WALL CLEANOUT ACCESS COVER WITH CENTER SCREW.
FPWH	FREEZE PROOF WALL HYDRANT LOCATION: EXTERIOR	-	-	-	3/4"	-	WADE NO. 8701 NON FREEZE WALL HYDRANT, VANDAL RESISTANT WITH VACUUM BREAKER WITH 3/4" MALE HOSE CONNECTION AND NEOPRENE PLUNGER, HEAVY DUTY BRASS CASING, 360 DEGREE SWIVEL, HEAVY DUTY CHROME PLATED BRONZE HEAD CASTING ENCASED IN A BOX WITH HINGED COVER.
HB-1	HOSE BIBB LOCATION: RESTOOMS	-	-	-	3/4"	-	WADE NO. 8708 ENCASED WALL HYDRANT. WITH LOOSE KEY HANDLE, POLISHED CHROME FINISH, VACUUM BREAKER AND ALL BRASS CONSTRUCTION. HOSE BIBB TO BE INSTALLED AT RESTROOM UNDER LAVATORY FOR WASHDOWN.
RH-1	ROOF HYDRANT	-	-	-	3/4"	-	HOEPTNER NO.2131R FREEZE FLOW ROOF HYDRANT. 3/4" FIP INLET, 3/4" HOSE THREAD OUTLET. ROOF HYDRANT SHALL NOT REQUIRE A DRAIN LINE FOR FROST PROTECTION. HYDRANT SHALL DRAIN INTO AN INTEGRAL STAINLESS STEEL CANISTER.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

STATE OF TEXAS
RICHARD LORET
98434
LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

	DATE	ISSUE
A	12/04/2024	100% SCHEMATIC DESIGN
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

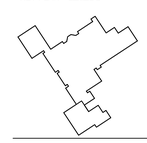
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER

P5.00

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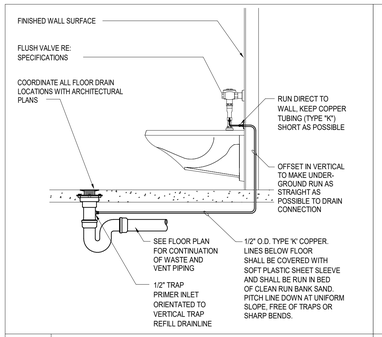
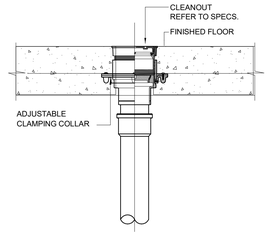
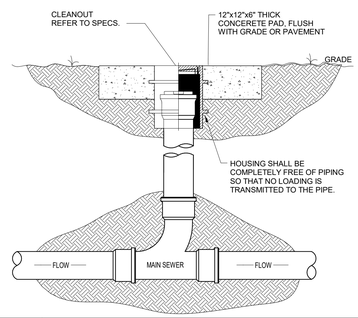


09 TRAP PRIMER DETAIL (TP-1)
NTS

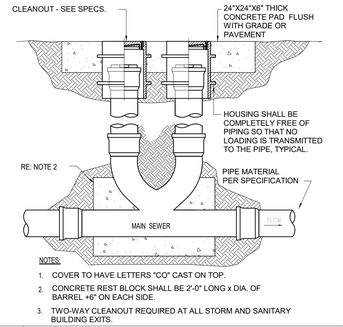


NOTES:
1. COVER TO HAVE LETTERS "CO" CAST ON TOP.
2. ABOVE FLOORS INTALLATION SHALL BE WATER PROOFED AS REQUIRED.

06 FLOOR CLEANOUT DETAIL
NTS

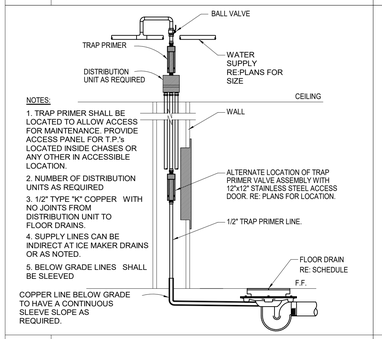


03 CLEAN OUT TO GRADE DETAIL
NTS



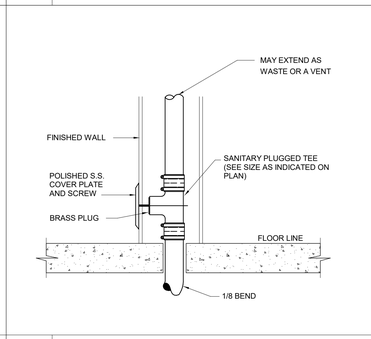
NOTES:
1. COVER TO HAVE LETTERS "CO" CAST ON TOP.
2. CONCRETE REST BLOCK SHALL BE 2'-0" LONG x DIA. OF BARREL +6" ON EACH SIDE.
3. TWO-WAY CLEANOUT REQUIRED AT ALL STORM AND SANITARY BUILDING EXITS.

01 2-WAY CLEAN OUT TO GRADE DETAIL
NTS

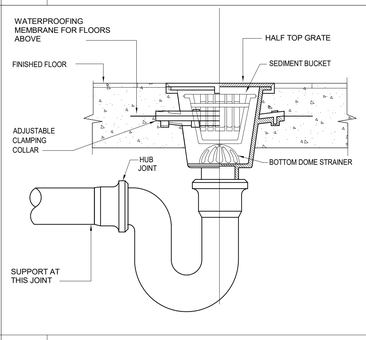


NOTES:
1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANEL FOR T.P.'s LOCATED INSIDE CHASES OR ANY OTHER IN ACCESSIBLE LOCATION.
2. NUMBER OF DISTRIBUTION UNITS AS REQUIRED
3. 1/2" TYPE "K" COPPER WITH NO JOINTS FROM DISTRIBUTION UNIT TO FLOOR DRAINS.
4. SUPPLY LINES CAN BE INDIRECT AT ICE MAKER DRAINS OR AS NOTED.
5. BELOW GRADE LINES SHALL BE SLEEVED

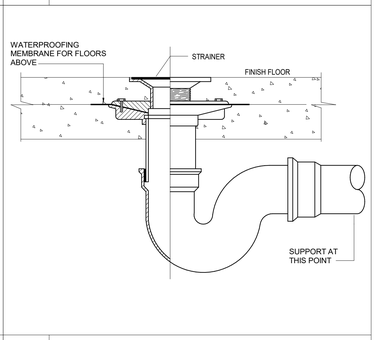
10 TRAP PRIMER DETAIL (TP-2)
NTS



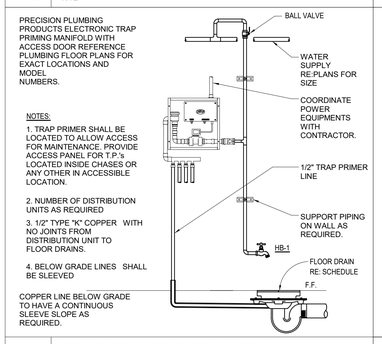
07 WALL CLEAN OUT DETAIL
NTS



04 FLOOR SINK DETAIL
NTS

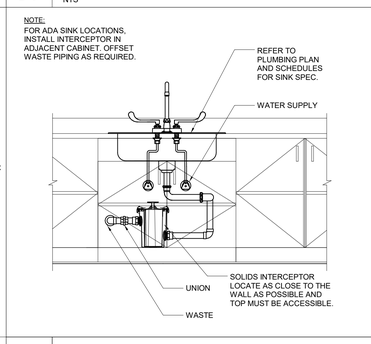


02 FLOOR DRAIN DETAIL (FD-1)
NTS

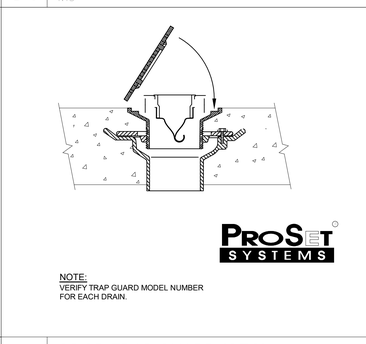


NOTES:
1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANEL FOR T.P.'s LOCATED INSIDE CHASES OR ANY OTHER IN ACCESSIBLE LOCATION.
2. NUMBER OF DISTRIBUTION UNITS AS REQUIRED
3. 1/2" TYPE "K" COPPER WITH NO JOINTS FROM DISTRIBUTION UNIT TO FLOOR DRAINS.
4. BELOW GRADE LINES SHALL BE SLEEVED

11 TRAP PRIMER DETAIL (TP-3)
NTS



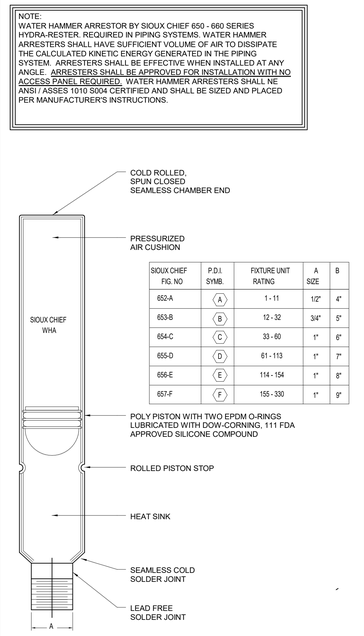
08 ART ROOM SOLIDS INTERCEPTOR
NTS



NOTE:
VERIFY TRAP GUARD MODEL NUMBER FOR EACH DRAIN.

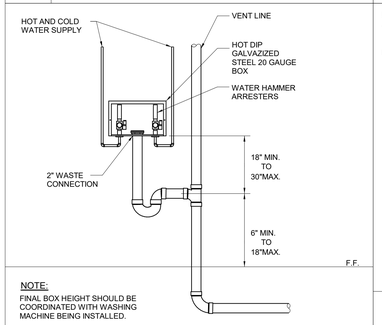
05 ODOR TRAP GUARD (OTG)
NTS

NOTE:
WATER HAMMER ARRESTOR BY SIOUX CHIEF 650 - 660 SERIES HYDRA-RESTER. REQUIRED IN PIPING SYSTEMS. WATER HAMMER ARRESTERS SHALL HAVE SUFFICIENT VOLUME OF AIR TO DISSIPATE THE CALCULATED KINETIC ENERGY GENERATED IN THE PIPING SYSTEM. ARRESTERS SHALL BE EFFECTIVE WHEN INSTALLED AT ANY ANGLE. ARRESTERS SHALL BE APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. WATER HAMMER ARRESTERS SHALL NE ANSI / ASSES 1010 5004 CERTIFIED AND SHALL BE SIZED AND PLACED PER MANUFACTURER'S INSTRUCTIONS.



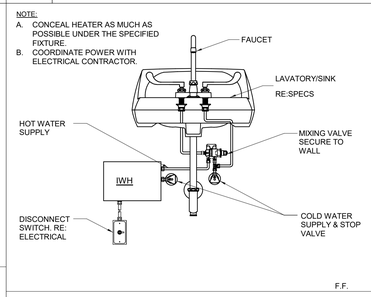
SIOUX CHIEF FIG. NO	P.D.I SYMB.	FIXTURE UNIT RATING	A SIZE	B
652-A	A	1 - 11	1/2"	4"
653-B	B	12 - 32	3/4"	5"
654-C	C	33 - 60	1"	6"
655-D	D	61 - 113	1"	7"
656-E	E	114 - 154	1"	8"
657-F	F	155 - 330	1"	9"

15 WATER HAMMER ARRESTOR DETAIL
NTS

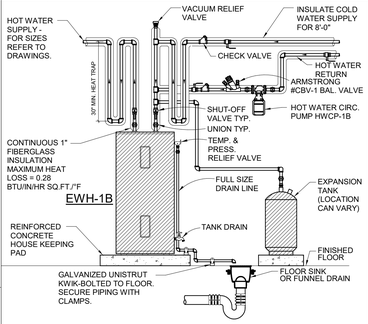


NOTE:
FINAL BOX HEIGHT SHOULD BE COORDINATED WITH WASHING MACHINE BEING INSTALLED.

12 WASHING MACHINE BOX DETAIL
NTS



13 POINT OF USE EWH
NTS



14 ELECTRIC WATER HEATER
NTS

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

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STATE OF TEXAS — RICHARD LOREY — 96436 — LICENSED — PROFESSIONAL ENGINEER

CMTA F-8627

2025.09.16

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FORT BEND INDEPENDENT SCHOOL DISTRICT — 2023 BOND

PROJECT NAME

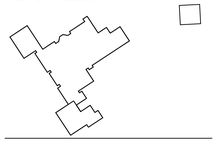
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

PLUMBING DETAILS

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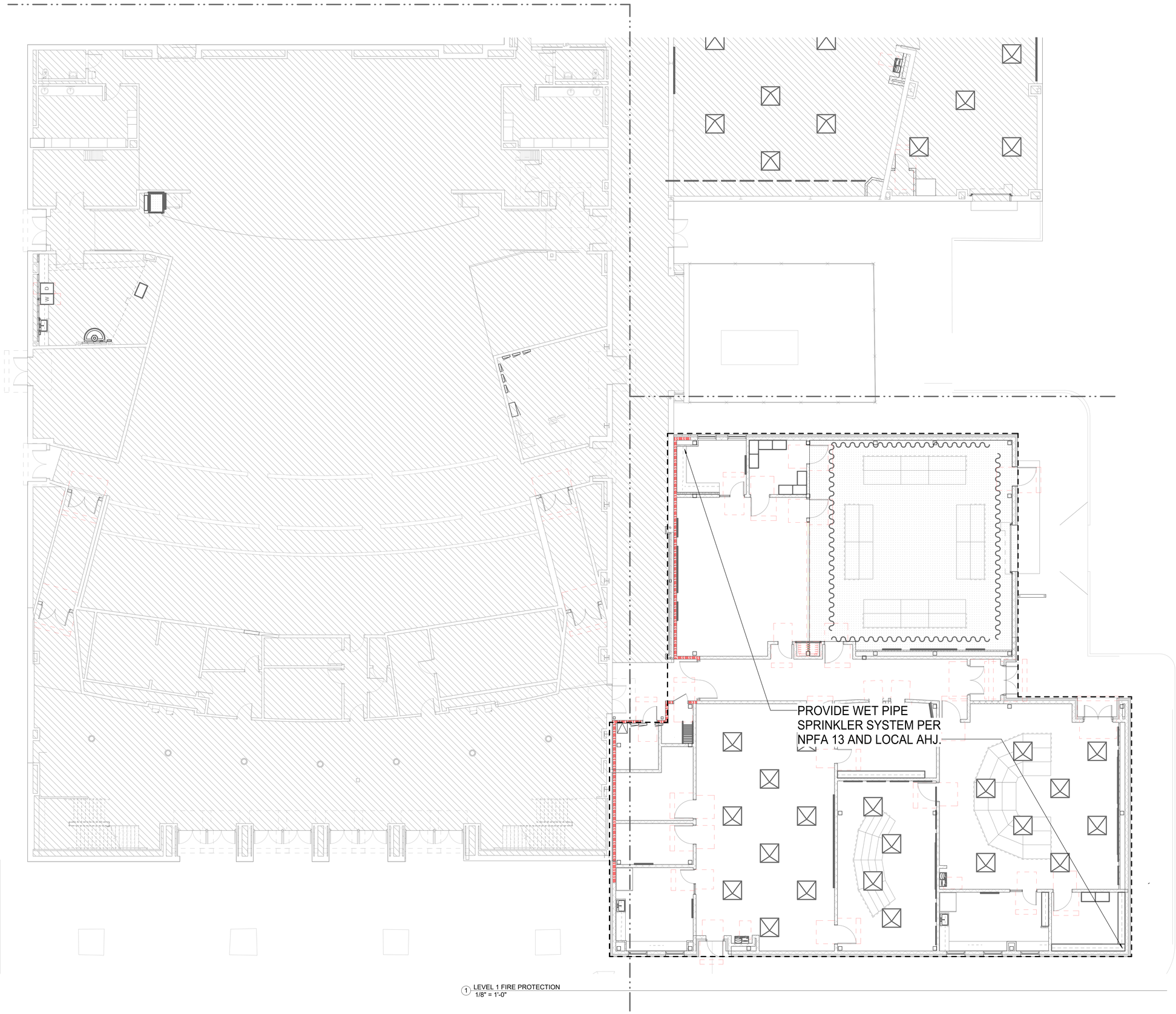

1 LEVEL 1 FIRE PROTECTION
1/8" = 1'-0"

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

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STATE OF TEXAS
RICHARD LOREY
105316
LICENSED
PROFESSIONAL ENGINEER

CMTA F-8627
2025.09.16

	DATE	ISSUE
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

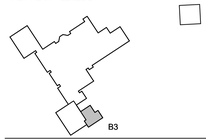
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

FIRE PROTECTION PLAN - AREA B3

SHEET NUMBER

FP1.0

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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
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, AMPERES
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.

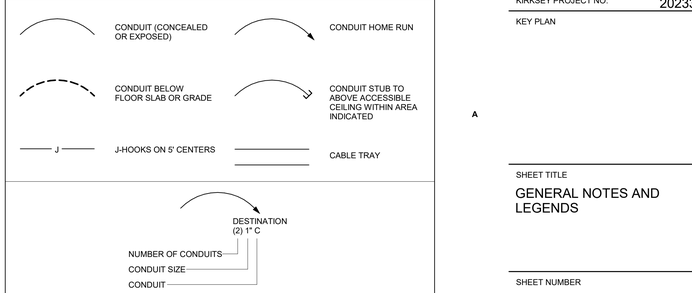
TYPE B JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

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



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△	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2024

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

GENERAL NOTES AND LEGENDS

SHEET NUMBER

AV0.00

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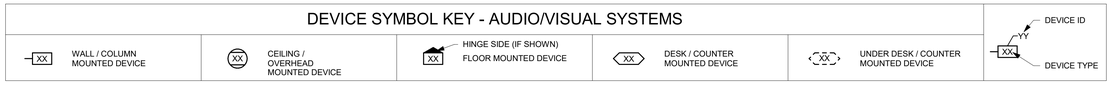
9/15/2025 9:19:25 AM Autodesk Docs://2023306 Willowridge High School/AV_Willowridge High School_2024.rvt

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	GYM 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
AV4	AV PLATE	TYPE 4	4-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
BBP	BLACK BOX PANEL	TYPE A (6"x6"x4")	REF LEGEND NOTE 3	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
BP	BUTTON PANEL	TYPE 2	2-GANG	BUILDING SWITCH HEIGHT	--	--	--	REF PLANS
JBR	JUNCTION BOX - RACK	TYPE A (12"x12"x4")	--	REF ELEVATIONS/DETAILS	--	--	--	REF PLANS
JBS	JUNCTION BOX - SPEAKER	REF LEGEND NOTE 1	--	REF ELEVATIONS/DETAILS	REF PLANS	--	--	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
MIP	MULTIMEDIA INPUT PLATE	TYPE 2	1-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
MIX*	MIX FLOOR BOX - EXISTING	EXISTING	10" x 10"	--	--	FLUSH MOUNTED TO FLOOR	--	--
MRP	MUSIC ROOM PANEL	TYPE A (6"x6"x4")	REF LEGEND NOTE 3	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
PS	PROJECTION SCREEN	TYPE 1	1-GANG	REF ELEVATIONS/DETAILS	FLUSH IN CEILING	--	--	REF PLANS AND DETAILS
S2	SPEAKER PLATE	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
TCP	THEATER CLASSROOM PANEL	TYPE A (6"x6"x4")	REF LEGEND NOTE 3	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
VP	VIDEO PROJECTOR LOCATION (WALL)	REF DEVICE NOTE	--	REF ELEVATIONS/DETAILS	--	--	PROVIDE CHEIF PAC525FC COORDINATE COLOR WITH ARCHITECT	REF PLANS AND DETAILS
VPC	VIDEO PROJECTOR LOCATION (CEILING)	REF DEVICE NOTE	--	--	REF ELEVATIONS/DETAILS	--	PROVIDE CHEIF STRUCTURAL ADAPTER, ADJUSTABLE POLE AND NIGEL B DESIGN NB-PEBPM ENCLOSURE	REF PLANS AND DETAILS

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 SHOULD 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		
1	SPEAKER	TYPE 2	--	REF PLANS/ELEVATIONS	--	--	--	REF PLANS
2	SPEAKER	TYPE 2	--	REF PLANS/ELEVATIONS	--	--	--	REF PLANS
4	SPEAKER	TYPE 2	--	--	--	--	--	REF PLANS
5	SPEAKER	TYPE 2	--	--	REF PLANS/ELEVATIONS	--	--	REF PLANS

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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

GENERAL NOTES AND LEGENDS

SHEET NUMBER

AV0.01

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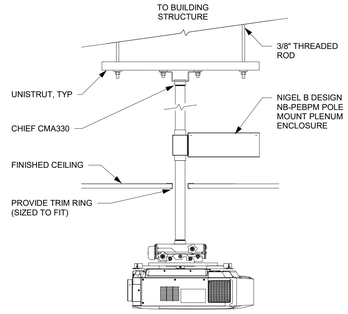
AV PROJECTION SCREEN SCHEDULE

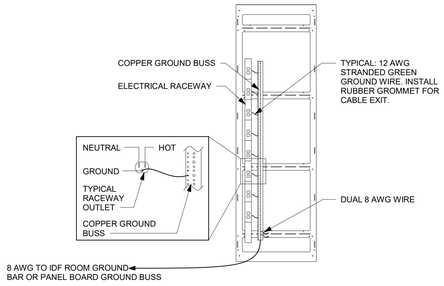
SCREEN ID	IMAGE WIDTH	IMAGE HEIGHT	ASPECT RATIO	SCREEN TYPE	HEIGHT TO BOTTOM OF IMAGE
PS-AUD	240"	150"	1.6	1	78"
PS-BND	110"	69"	1.6	2	REFERENCE ELEVATIONS
PS-CHR	110"	69"	1.6	2	REFERENCE ELEVATIONS
PS-DRA	110"	69"	1.6	2	REFERENCE ELEVATIONS
PS-MAR	104"	58"	1.8	3	62"
PS-ORC	110"	69"	1.6	2	REFERENCE ELEVATIONS
PS-PERC	110"	69"	1.6	2	REFERENCE ELEVATIONS

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-FOH (EXISTING)	EXISTING RACK	ROLLTOP	--				--	12	39"		EXISTING
ER-GYM	GYM STORAGE	WALL MOUNTED	1	2' - 2"	4' - 0"		1/AV0.90	21	26"		NEW
ER-SMP (EXISTING)	EXISTING RACK	WALL MOUNTED	--	0' - 8 1/2"	4' - 0"		1/AV0.90	41	28"		EXISTING

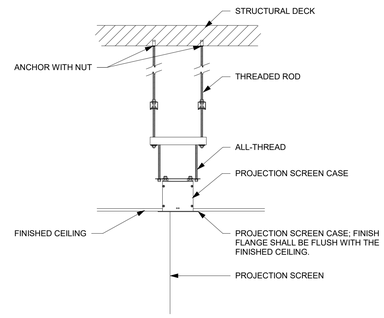


1" = 1'-0" PROJECTOR CEILING MOUNTED DETAIL | 3

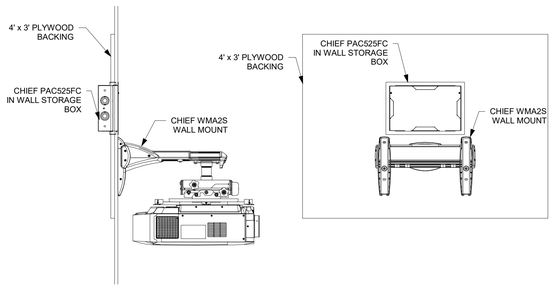


NOTES:
1. PROVIDE ISOLATED GROUND OUTLETS WITH GROUNDING SCHEME AS SHOWN.
2. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

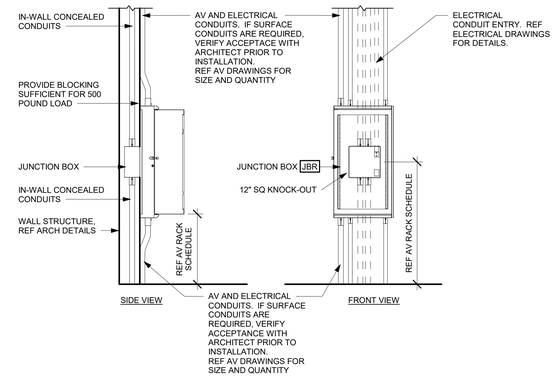
1/2" = 1'-0" RACK GROUND BAR DETAIL | 5



1" = 1'-0" PROJECTION SCREEN MOUNTING DETAIL | 2



1" = 1'-0" PROJECTOR MOUNTING DETAIL | 4



1/2" = 1'-0" WALL MOUNTED RACK DETAIL | 1

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PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

AUDIO-VIDEO EQUIPMENT DETAILS

SHEET NUMBER

AV0.90

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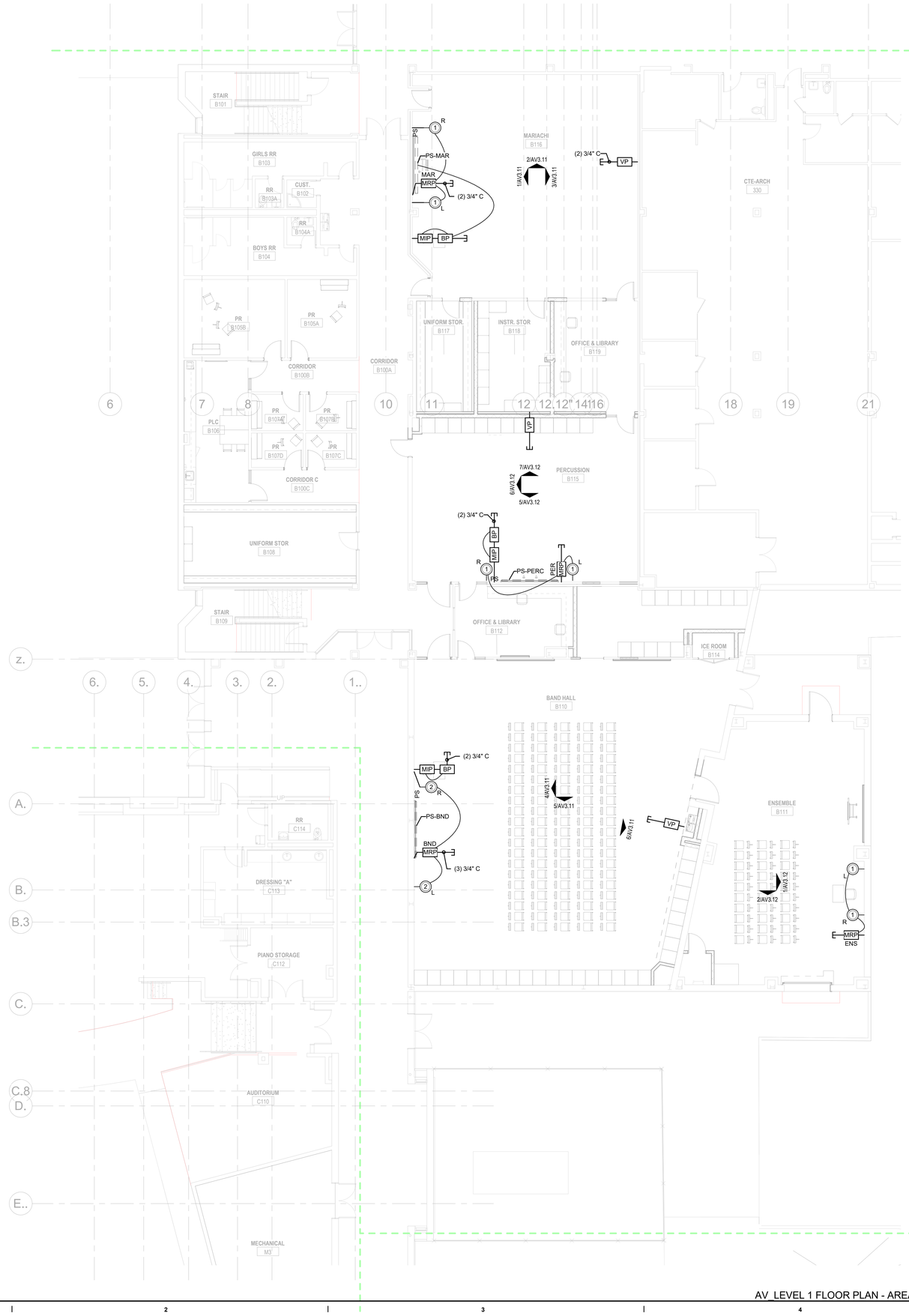

1/8" = 1'-0"

AV_LEVEL 1 FLOOR PLAN - AREA B1 | A4

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

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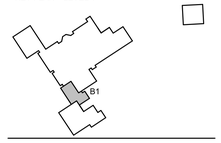
PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B1

SHEET NUMBER

AV2.31

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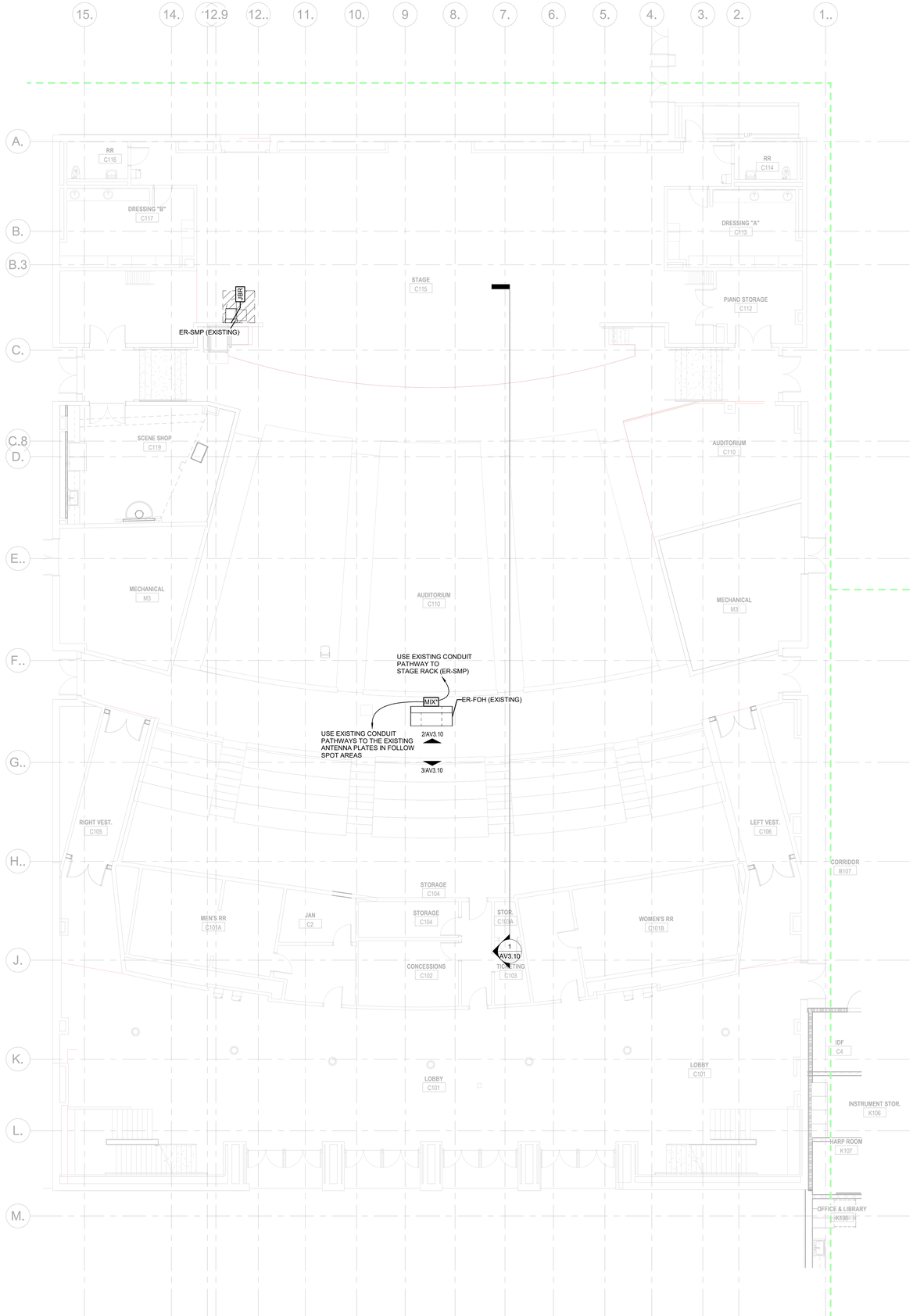

KEYNOTES

1/8" = 1'-0"

AV_LEVEL 1 FLOOR PLAN - AREA B2 | A4

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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PROJECT ADDRESS

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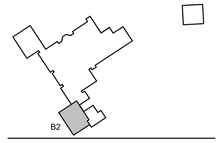
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B2

SHEET NUMBER

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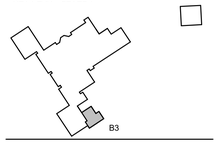
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B3

SHEET NUMBER

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1/8" = 1'-0"

AV_LEVEL 1 FLOOR PLAN - AREA B3 | A4

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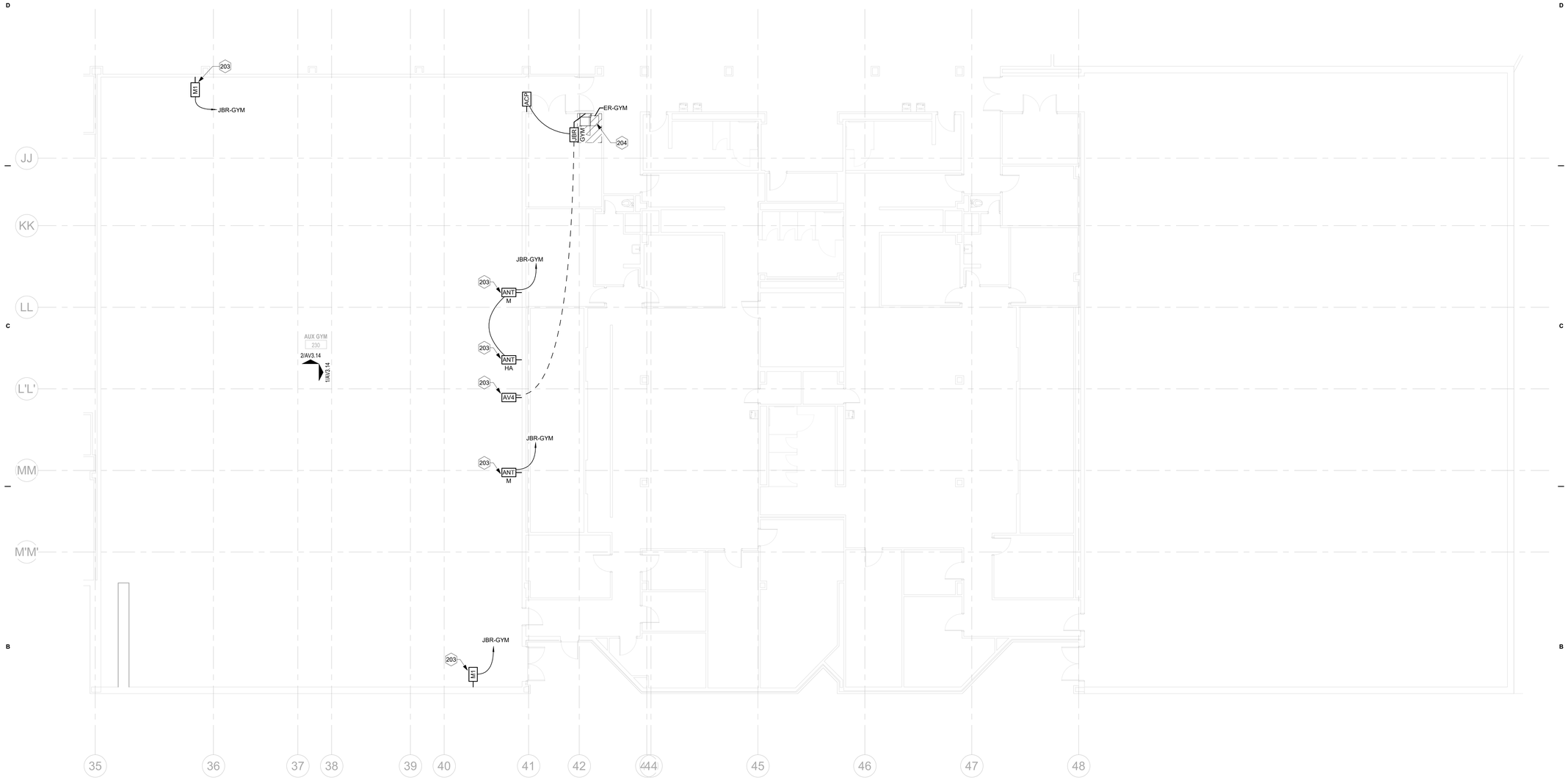

1/8" = 1'-0"

AV_ LEVEL 1 FLOOR PLAN - AREA B5 | B5

KEYNOTES

203	COORDINATE EXISTING PLATES POSITIONS
204	COORDINATE LOCATION WITH DISTRICT

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

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PROJECT ADDRESS

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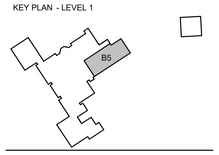
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B5

SHEET NUMBER

AV2.35

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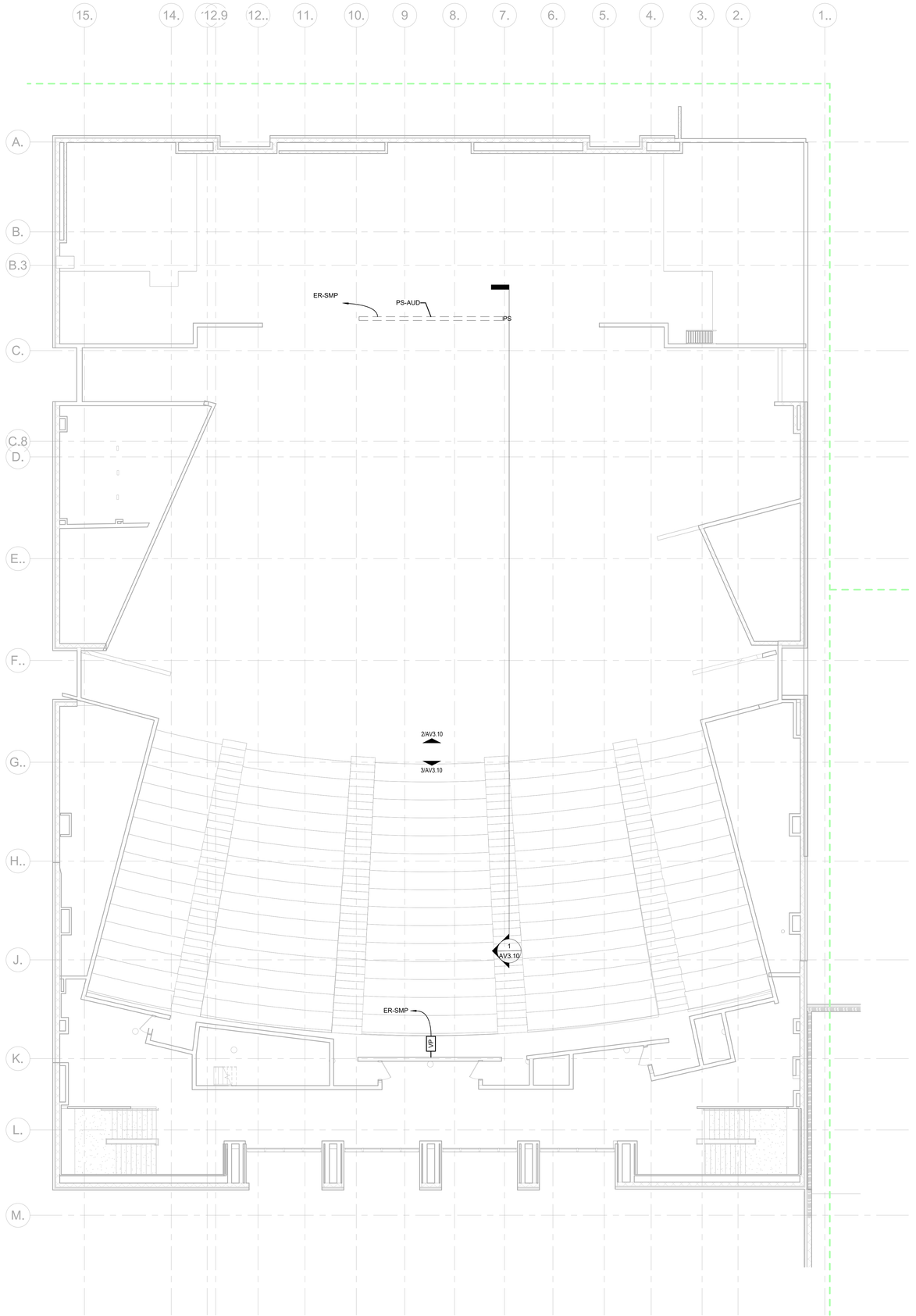

1/8" = 1'-0"

_AV_LEVEL 2 FLOOR PLAN - AREA B2 | 1

KEYNOTES

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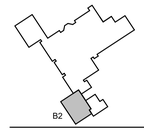
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 FLOOR PLAN - AREA B2

SHEET NUMBER

AV2.36

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1/8" = 1'-0"

AV_LEVEL 1 REFLECTED CEILING PLAN - AREA B1 | A4

KEYNOTES

202	COORDINATE PLATE POSITION WITH DISTRICT TO ALIGN WITH OWNER FURNISHED RISERS

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

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PROJECT ADDRESS

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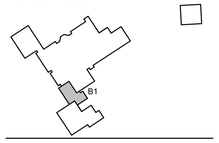
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 REFLECTED CEILING PLAN - AREA B1

SHEET NUMBER

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KEYNOTES

202	COORDINATE PLATE POSITION WITH DISTRICT TO ALIGN WITH OWNER FURNISHED RISERS

1/8" = 1'-0"

AV_LEVEL 1 REFLECTED CEILING PLAN - AREA B3 | A4

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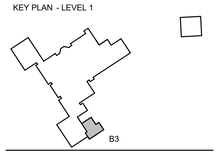
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 REFLECTED CEILING PLAN - AREA B3

SHEET NUMBER

AV2.43

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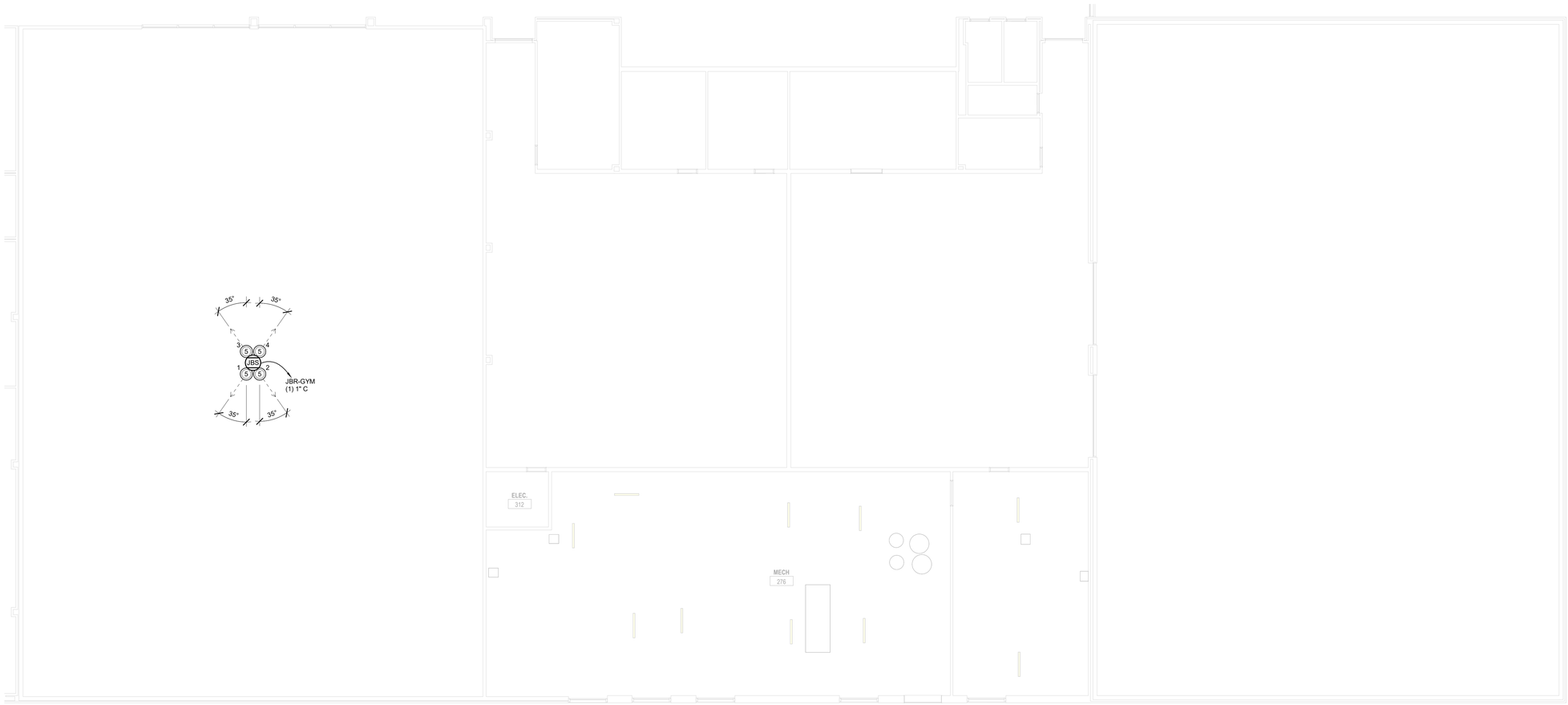

1/8" = 1'-0"

AV LEVEL 2 REFLECTED CEILING PLAN - AREA B5 | B5

KEYNOTES

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PROJECT ADDRESS
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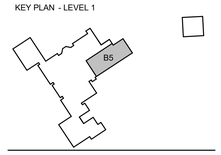
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 2 REFLECTED CEILING PLAN - AREA B5

SHEET NUMBER
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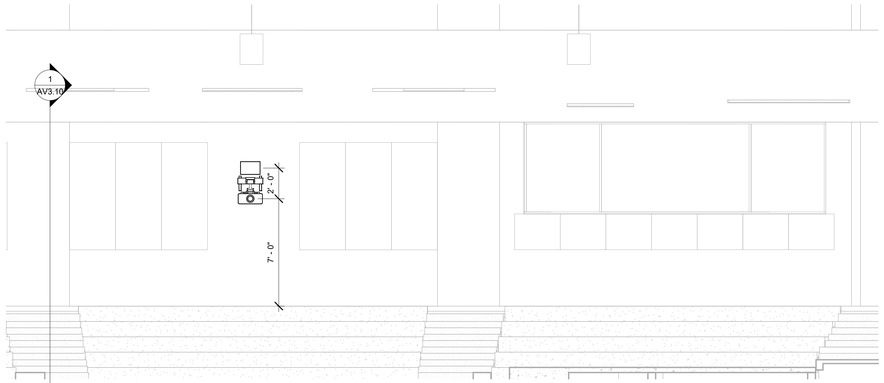
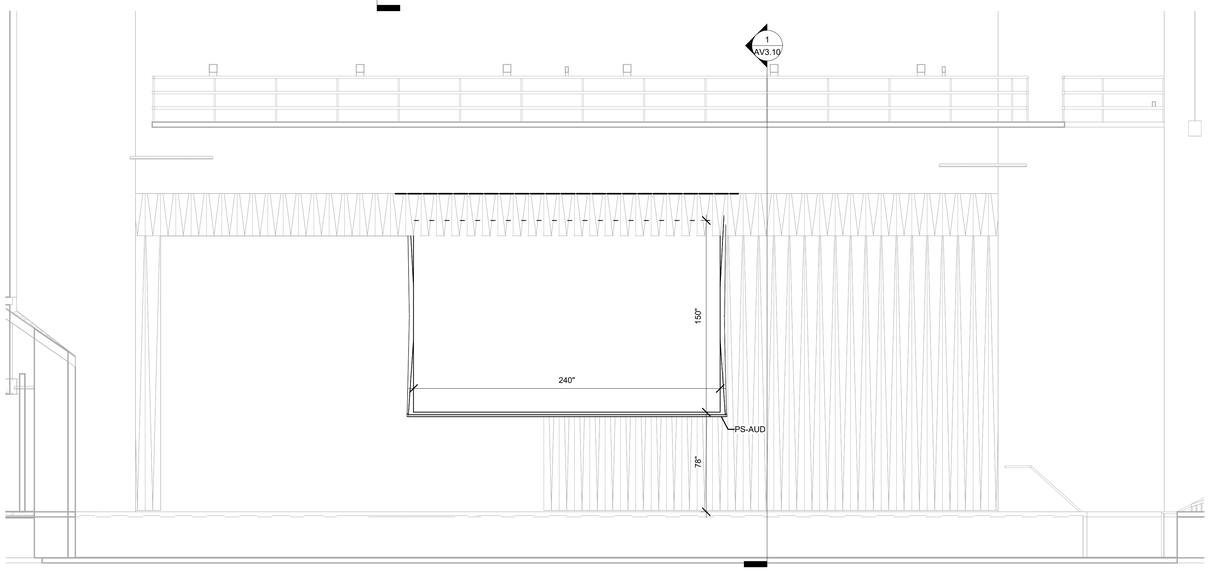
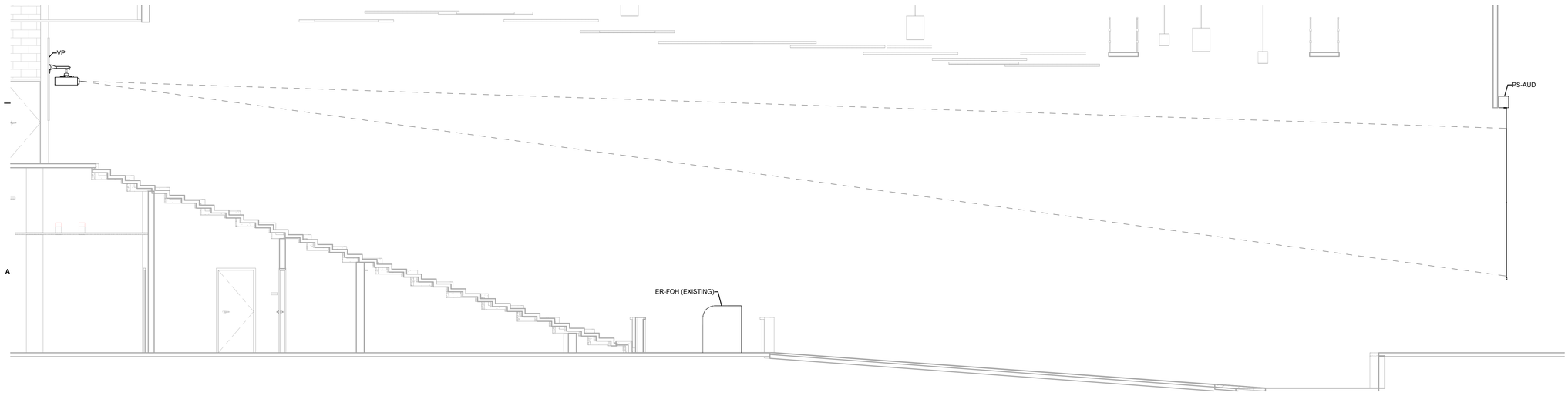


1/4" = 1'-0" AUDITORIUM C110 REAR ELEVATION 3



1/4" = 1'-0" AUDITORIUM C110 FRONT ELEVATION 2



1/4" = 1'-0" AUDITORIUM C110 SECTION 1

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Houston Texas 77024

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT 2025 BOND

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS AND SECTIONS

SHEET NUMBER

AV3.10

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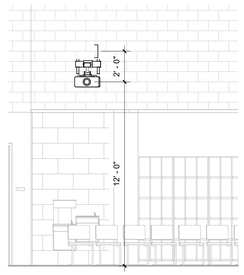
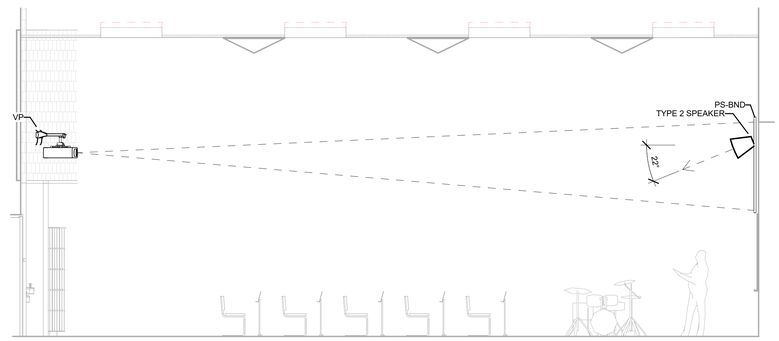
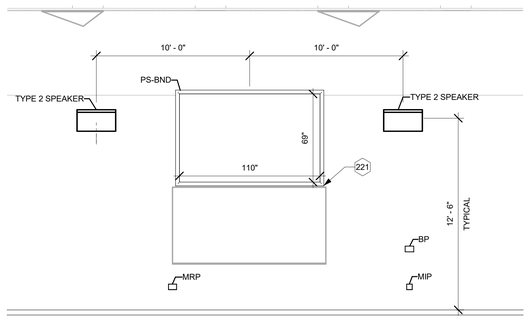


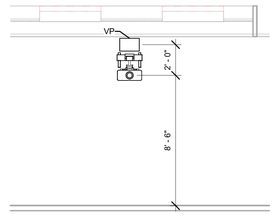
1/4" = 1'-0" BAND HALL B110 REAR ELEVATION 6



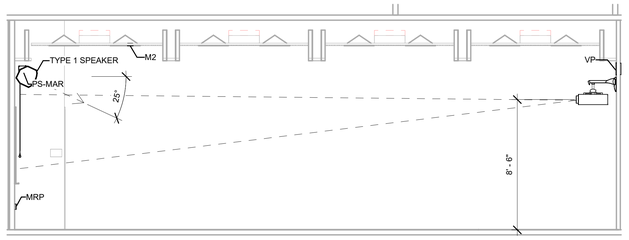
1/4" = 1'-0" BAND HALL B110 SIDE ELEVATION 5



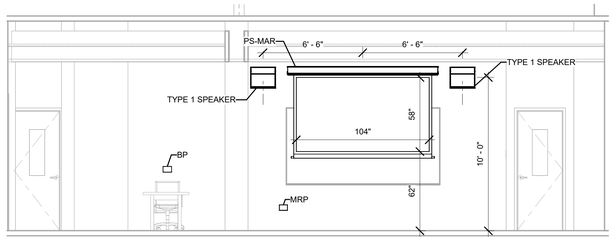
1/4" = 1'-0" BAND HALL B110 FRONT ELEVATION 4



1/4" = 1'-0" MARIACHI B116 REAR ELEVATION 3



1/4" = 1'-0" MARIACHI B116 SIDE ELEVATION 2



1/4" = 1'-0" MARIACHI B116 FRONT ELEVATION 1

KEYNOTES

221	MOUNT DIRECTLY ABOVE THE CENTER OF THE MARKER BOARD THE EDGES OF THE BOARD AND SCREEN SHALL TOUCH.

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6909 Portwest Drive

Houston Texas 77024

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS

SHEET NUMBER

AV3.11

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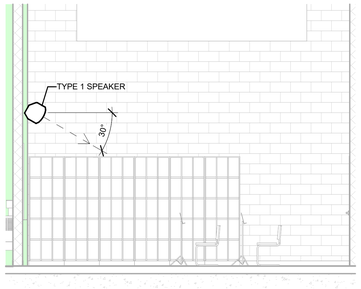
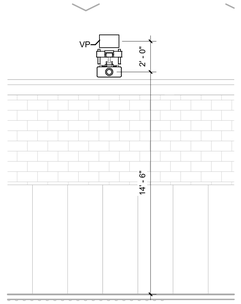
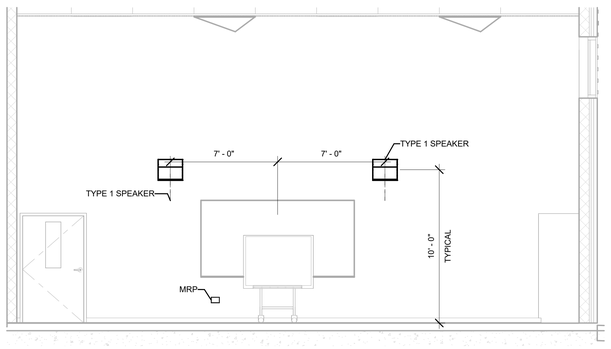


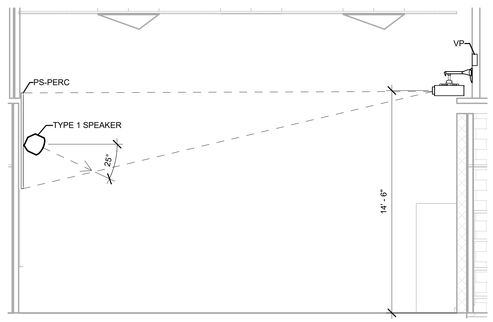
1/4" = 1'-0" SHARED ENSEMBLE SIDE ELEVATION | 4



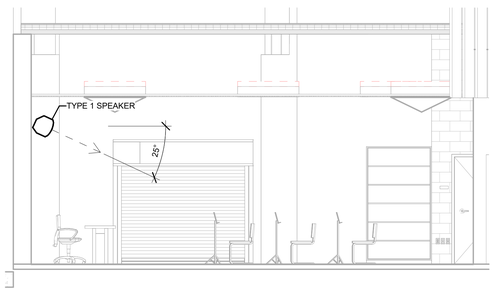
1/4" = 1'-0" PERCUSSION B115 REAR ELEVATION | 7



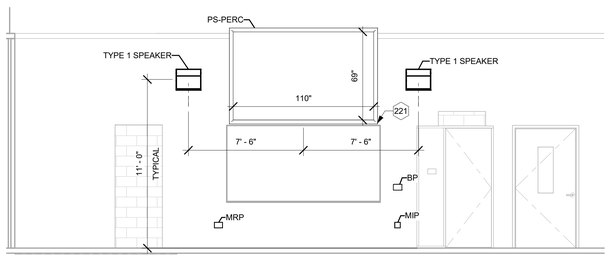
1/4" = 1'-0" SHARED ENSEMBLE FRONT ELEVATION | 3



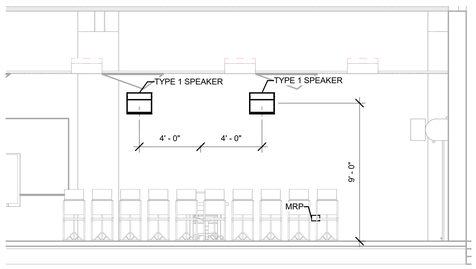
1/4" = 1'-0" PERCUSSION B115 SIDE ELEVATION | 6



1/4" = 1'-0" ENSEMBLE B111 SIDE ELEVATION | 2



1/4" = 1'-0" PERCUSSION B115 FRONT ELEVATION | 5



1/4" = 1'-0" ENSEMBLE B111 FRONT ELEVATION | 1

KEYNOTES

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS

SHEET NUMBER

AV3.12

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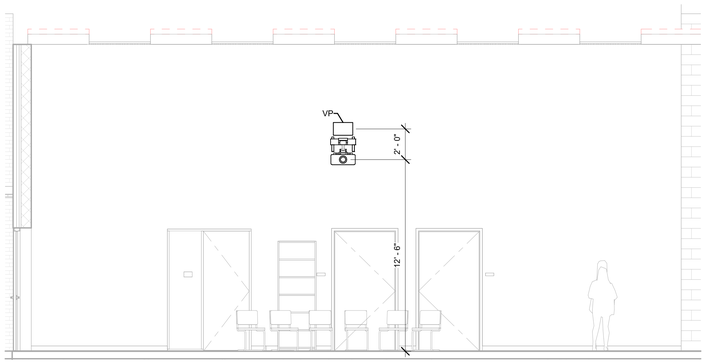
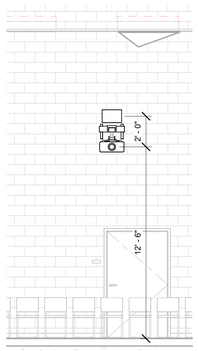
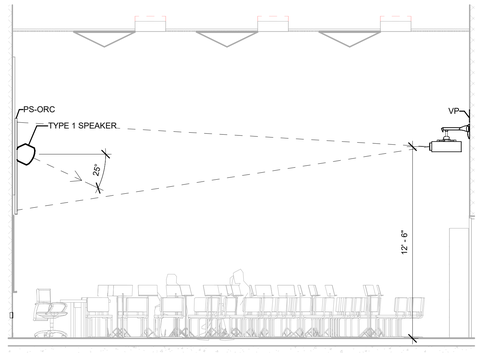


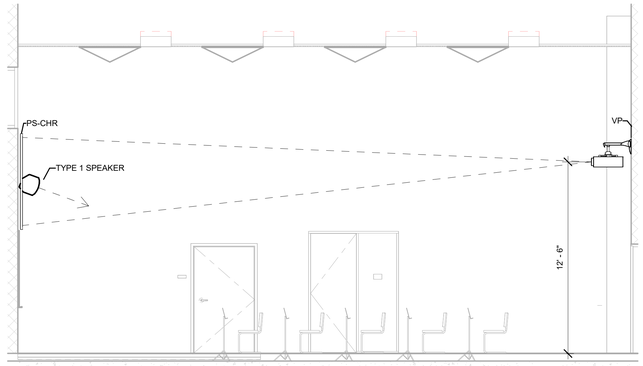
1/4" = 1'-0" ORCHESTRA K105 REAR ELEVATION | 6



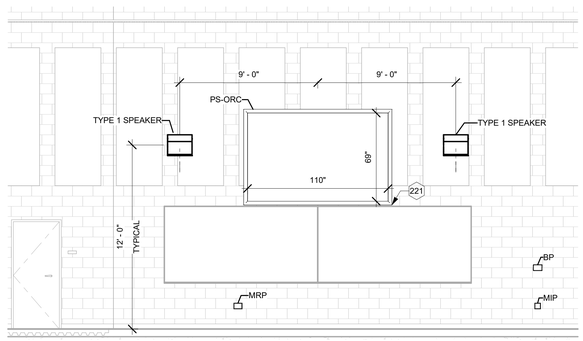
1/4" = 1'-0" CHOIR K112 REAR ELEVATION | 3



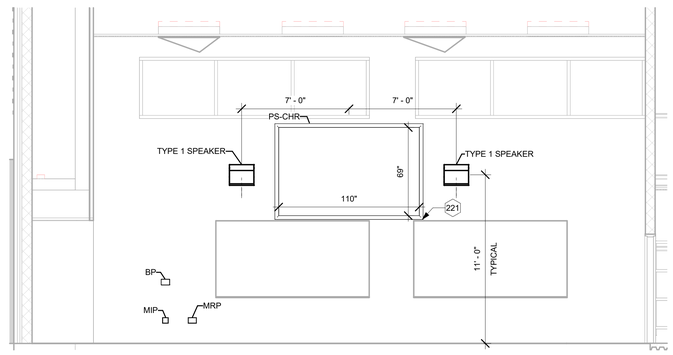
1/4" = 1'-0" ORCHESTRA K105 SIDE ELEVATION | 5



1/4" = 1'-0" CHOIR K112 SIDE ELEVATION | 2



1/4" = 1'-0" ORCHESTRA K105 FRONT ELEVATION | 4



1/4" = 1'-0" CHOIR K112 FRONT ELEVATION | 1

KEYNOTES

221	MOUNT DIRECTLY ABOVE THE CENTER OF THE MARKER BOARD THE EDGES OF THE BOARD AND SCREEN SHALL TOUCH.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS

SHEET NUMBER

AV3.13

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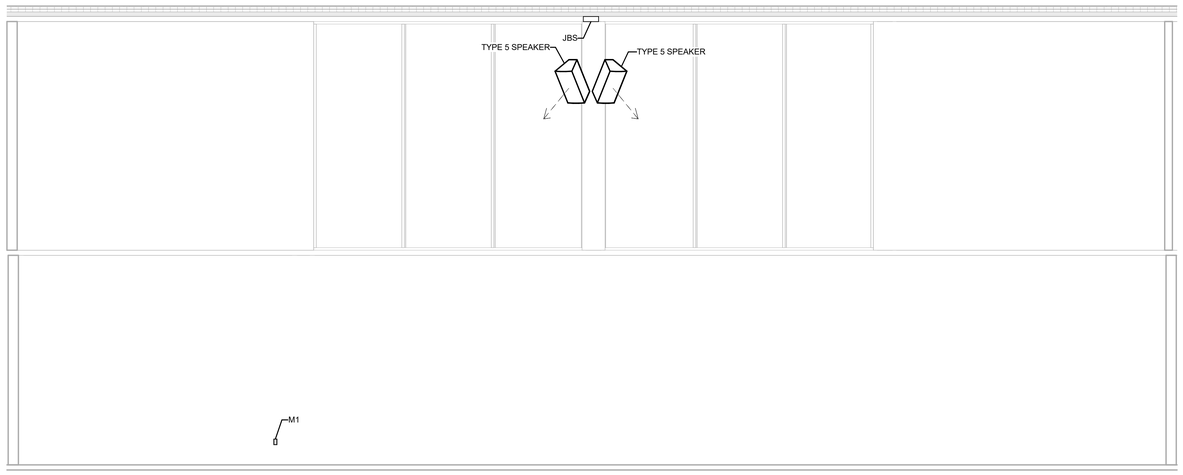
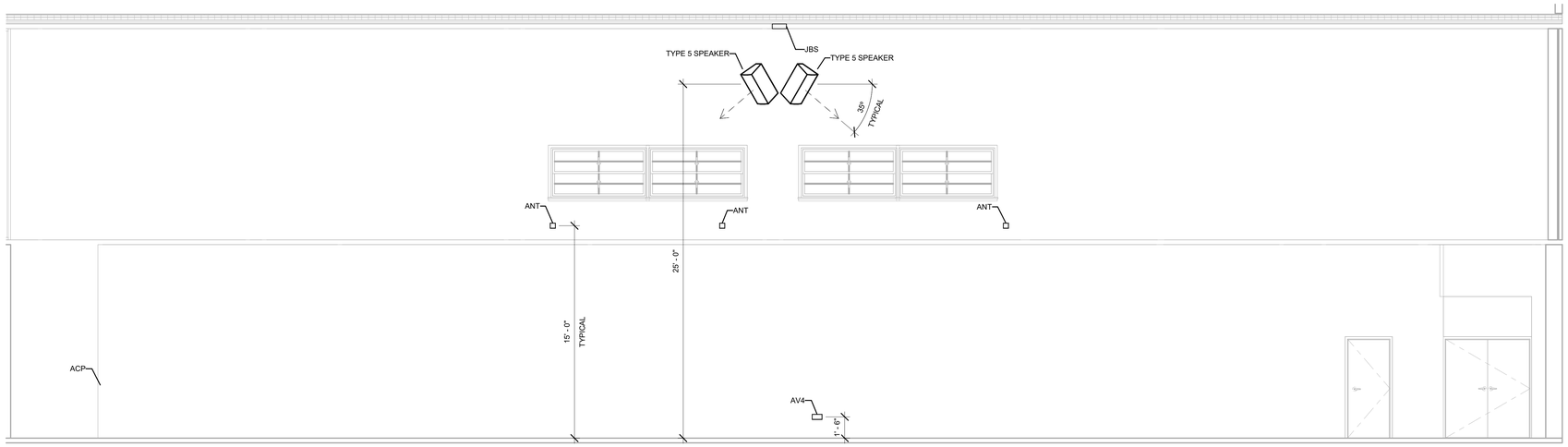


1/4" = 1'-0"

GYM NORTH WALL ELEVATION | 2



1/4" = 1'-0"

GYM EAST WALL ELEVATION | 1

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PROJECT NAME

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PROJECT ADDRESS

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Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

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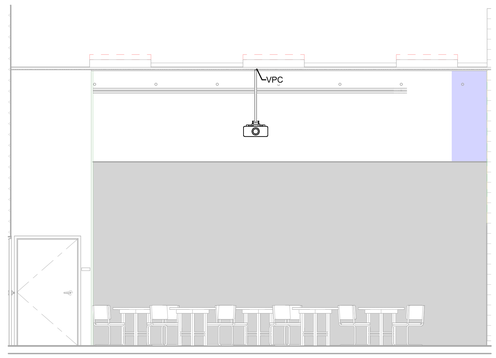
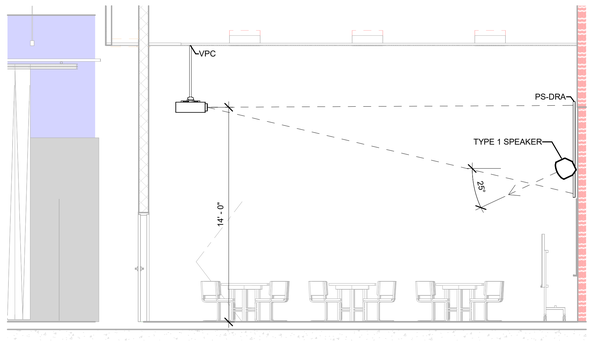
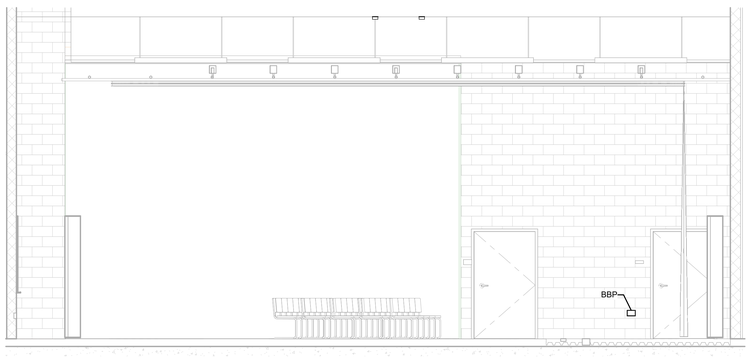


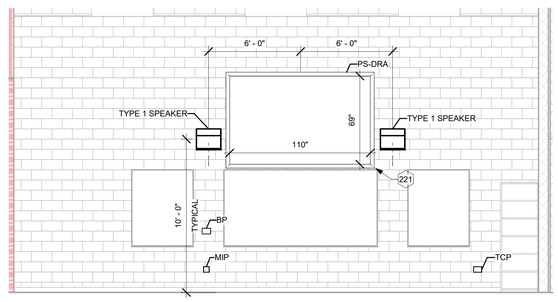
1/4" = 1'-0" DRAMA CLASSROOM K101 REAR ELEVATION 5



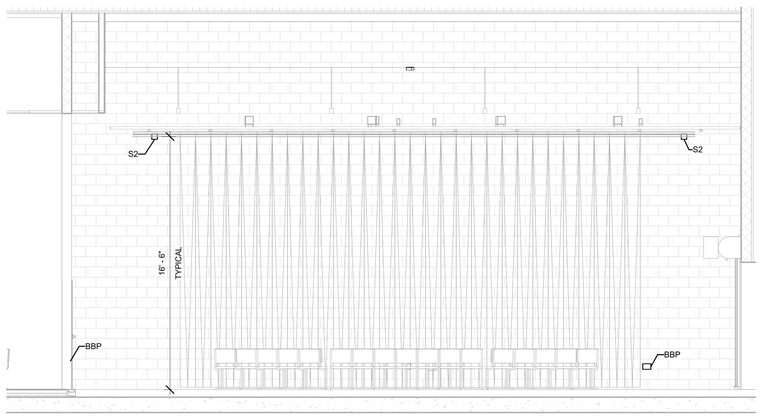
1/4" = 1'-0" DRAMA CLASSROOM K101 SIDE ELEVATION 4



1/4" = 1'-0" BLACK-BOX WEST ELEVATION 2



1/4" = 1'-0" DRAMA CLASSROOM K101 FRONT ELEVATION 3



1/4" = 1'-0" BLACK-BOX NORTH ELEVATION 1

KEYNOTES

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

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PROJECT ADDRESS

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

ELEVATIONS

SHEET NUMBER

AV3.15

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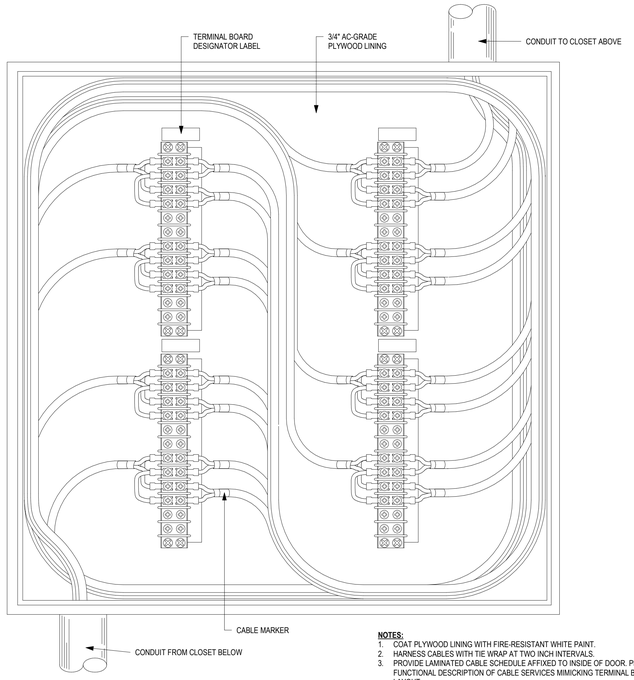
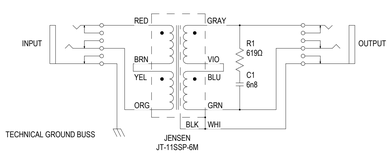
SPEAKER JUNCTION BOX TERMINATION DETAILS

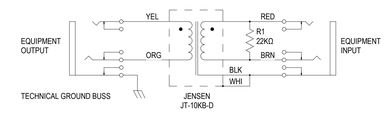


NOTES:
1. COAT PLYWOOD LINING WITH FIRE-RESISTANT WHITE PAINT.
2. HARNESS CABLES WITH TIE WRAP AT TWO INCH INTERVALS.
3. PROVIDE LAMINATED CABLE SCHEDULE AFFIXED TO INSIDE OF DOOR. PROVIDE FUNCTIONAL DESCRIPTION OF CABLE SERVICES MIMICKING TERMINAL BOARD LAYOUT.

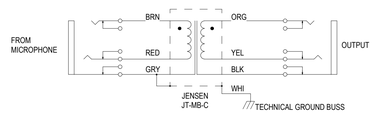
AUDIO TRANSFORMER WIRING



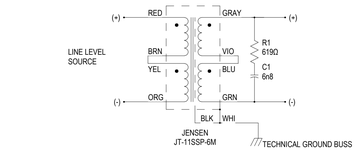
1:1 LINE INPUT TRANSFORMER AND LINE BRIDGING TRANSFORMER



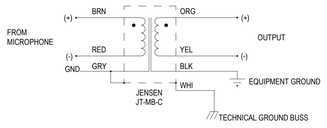
4:1 LINE INPUT TRANSFORMER (PRO TO CONSUMER EQUIPMENT)



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

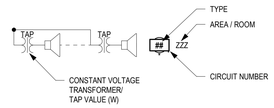
UNBALANCED OUTPUT TO ACTIVE BALANCED INPUT

ACTIVE BALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

UNBALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

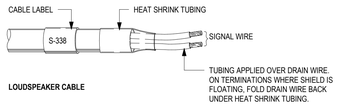
PANEL SYMBOL LEGEND

PARALLELED SPEAKERS DETAIL

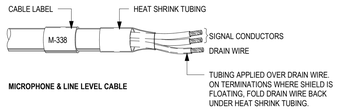


AV CABLE PREPARATION DETAILS

SMPTE / SMFO / TRIAX / COAXIAL CABLE

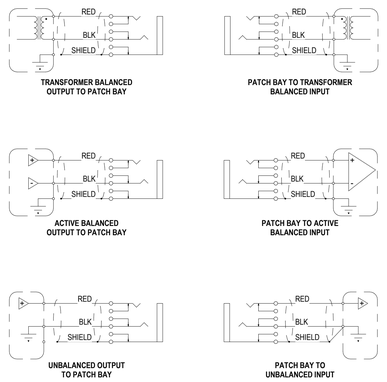


LOUDSPEAKER CABLE



MICROPHONE & LINE LEVEL CABLE

TYPICAL DEVICE TO PATCHBAY WIRING



TRANSFORMER BALANCED OUTPUT TO PATCH BAY

PATCH BAY TO TRANSFORMER BALANCED INPUT

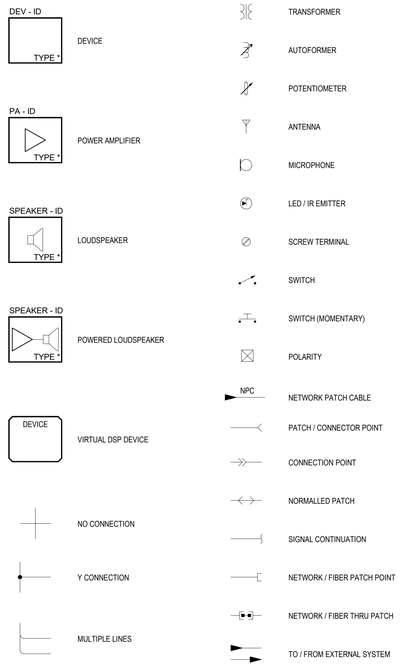
ACTIVE BALANCED OUTPUT TO PATCH BAY

PATCH BAY TO ACTIVE BALANCED INPUT

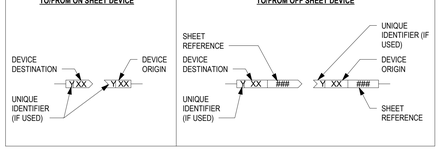
UNBALANCED OUTPUT TO PATCH BAY

PATCH BAY TO UNBALANCED INPUT

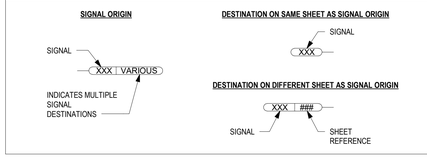
FUNCTIONAL SYMBOL LEGEND



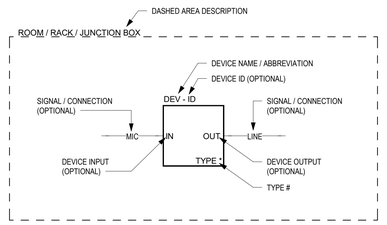
SIGNAL TO/FROM PHYSICAL DEVICE



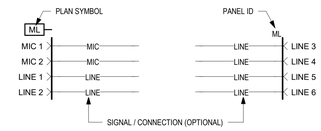
SIGNAL TO/FROM VIRTUAL DEVICE



DEVICE SIGNAL FLOW DETAIL



PLATE/PANEL SIGNAL FLOW DETAIL



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△	DATE	ISSUE
C	08/20/2025	90% CONSTRUCTION DOCUMENTS
D	09/16/2025	ISSUE FOR BID AND PERMIT

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS

SHEET NUMBER

AV11.00

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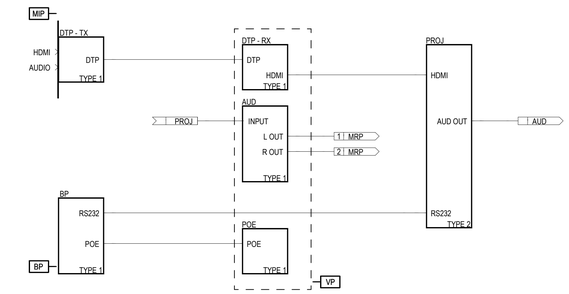
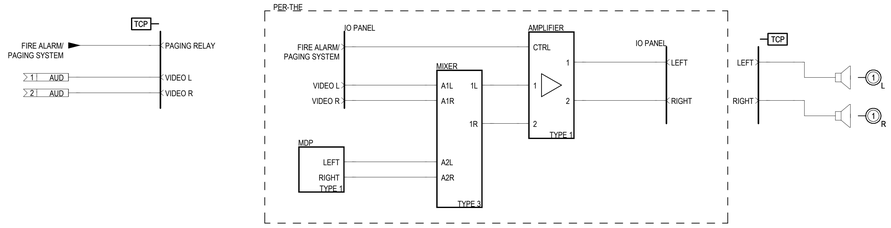
LOOSE EQUIPMENT - INTERCOM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
10	WIRELESS INTERCOM BELT UNIT	1	--
5	WIRELESS INTERCOM CHARGE BASE	1	--
1	PORTABLE EQUIPMENT RACK	2	PER-INT
2	MICROPHONE CABLE	6	--
2	MICROPHONE CABLE	25	--
4	INTERCOM CABLE	10	--
4	INTERCOM CABLE	25	--

LOOSE EQUIPMENT - BLACK BOX AUDIO SYSTEM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
4	BODYPACK WIRELESS MICROPHONE	1	--
4	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	1	--
4	VOCAL MICROPHONE	1	--
4	MICROPHONE STAND AND MOUNTING	1	--
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	--
1	PORTABLE EQUIPMENT RACK	1	PER-BB
6	SPEAKER	3	--
4	MICROPHONE CABLE	6	--
4	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
2	INSTRUMENT CABLE	06	--
1	MICROPHONE SNAKE	1	--
4	SPEAKER CABLE	06	--
4	SPEAKER CABLE	25	--
4	SPEAKER CABLE	50	--
1	SPEAKER CABLE	25	NL8
1	PAGING RELAY CABLE	6	--
1	PAGING RELAY CABLE	25	--
1	HEADPHONES	1	--

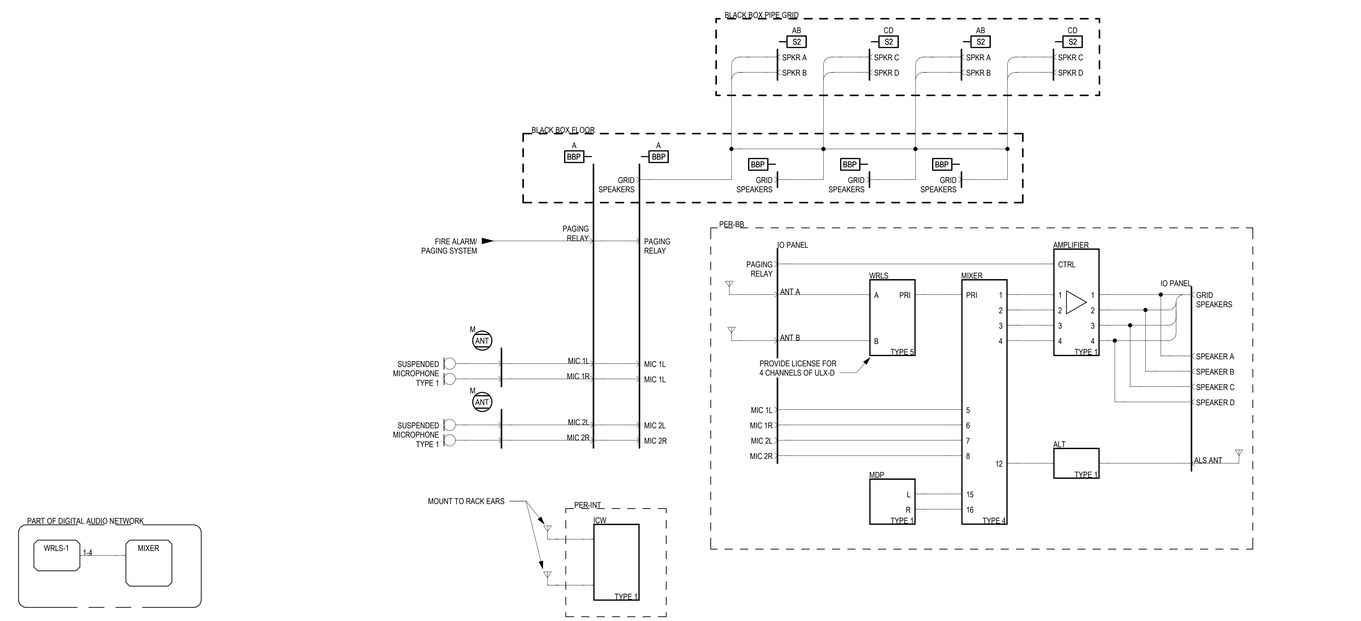
LOOSE EQUIPMENT - THEATER CLASSROOM AUDIO SYSTEM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
2	VOCAL MICROPHONE	1	--
2	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	5	--
1	STEREO DI BOX	1	--
1	PORTABLE EQUIPMENT RACK	1	PER-THE
4	MICROPHONE CABLE	6	--
4	MICROPHONE CABLE	25	--
2	SPEAKER CABLE	06	--
2	SPEAKER CABLE	25	--
1	PAGING RELAY CABLE	6	--
1	PAGING RELAY CABLE	25	--
1	HEADPHONES	1	--



3 TYPICAL CLASSROOM VIDEO FUNCTIONAL DIAGRAM
12" = 1'-0"



2 THEATER CLASSROOM AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"



1 BLACK-BOX AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"

4 PART OF DIGITAL AUDIO NETWORK - BLACK-BOX
12" = 1'-0"

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PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

BLACK-BOX/CLASSROOM AUDIO FUNCTIONAL DIAGRAMS

SHEET NUMBER

AV11.10

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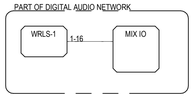
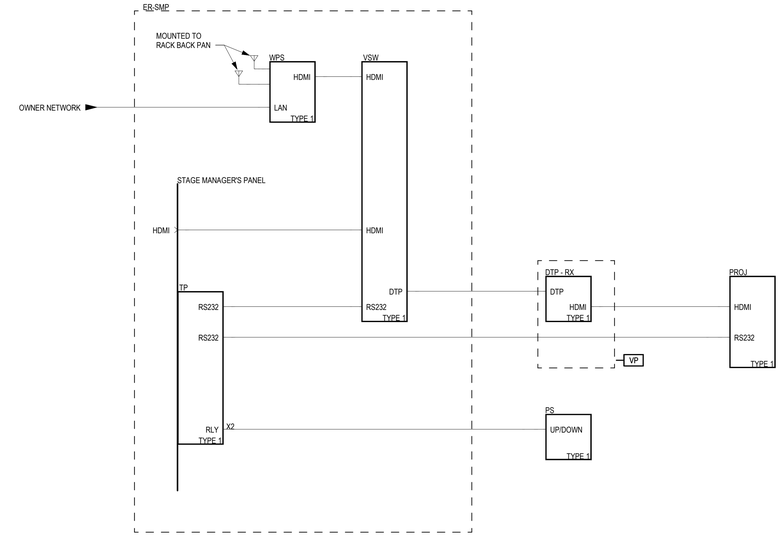
LOOSE EQUIPMENT - AUDITORIUM AUDIO SYSTEM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
16	BODYPACK WIRELESS MICROPHONE	1	--
16	HANDHELD WIRELESS MICROPHONE	1	--
4	WIRELESS MICROPHONE CHARGE BASE	1	--
1	MIX IO	2	--
2	ETHERNET AUDIO CABLE	06	
2	ETHERNET AUDIO CABLE	25	



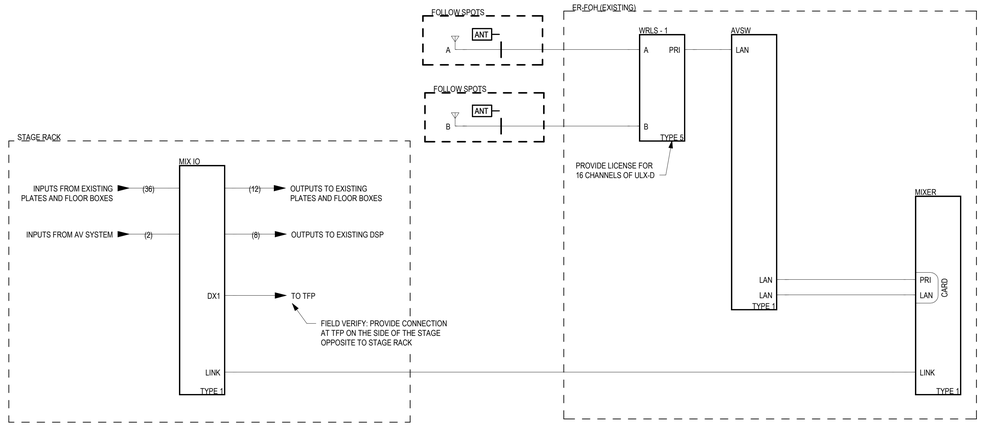
5 PART OF DIGITAL AUDIO NETWORK DIAGRAM
12" = 1'-0"

4 EXISTING STAGE RACK ELEVATIONS
1" = 1'-0"

3 STAGE MANAGER'S PANEL
6" = 1'-0"



2 AUDITORIUM VIDEO FUNCTIONAL DIAGRAM
12" = 1'-0"



1 AUDITORIUM MIXER REPLACEMENT DIAGRAM
12" = 1'-0"

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PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

AUDITORIUM REPLACEMENT DIAGRAMS

SHEET NUMBER

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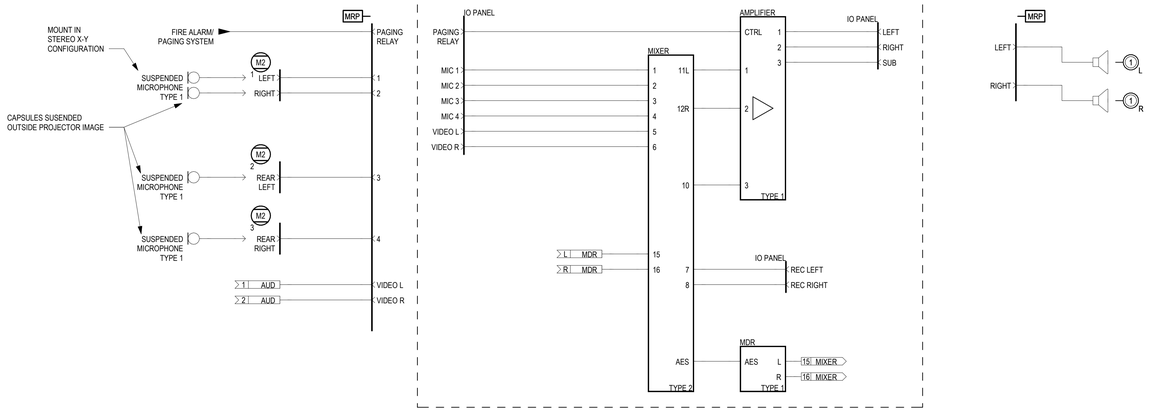
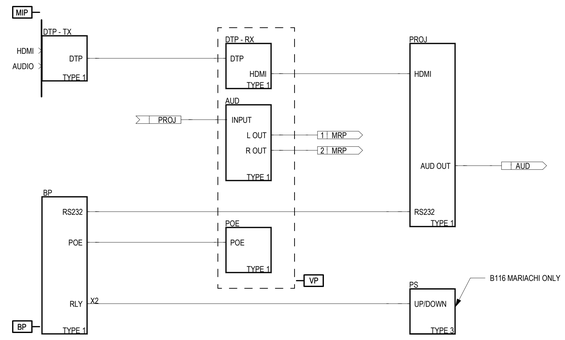
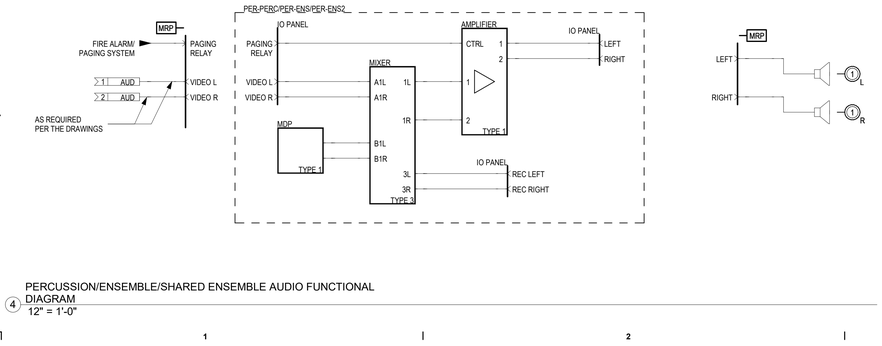


3 ORCHESTRA HALL/MARIACHI AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"

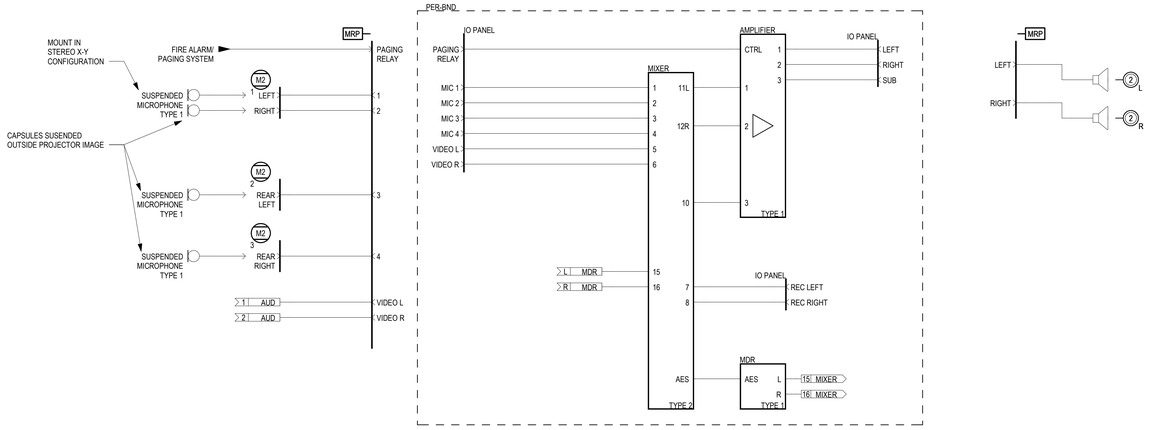


5 TYPICAL MUSIC ROOM VIDEO FUNCTIONAL DIAGRAM
12" = 1'-0"

2 CHOIR AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"



4 PERCUSSION/ENSEMBLE/SHARED ENSEMBLE AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"



1 BAND HALL AUDIO FUNCTIONAL DIAGRAM
12" = 1'-0"

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PROJECT NAME
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
MUSIC ROOMS FUNCTIONAL DIAGRAMS

SHEET NUMBER
AV11.21

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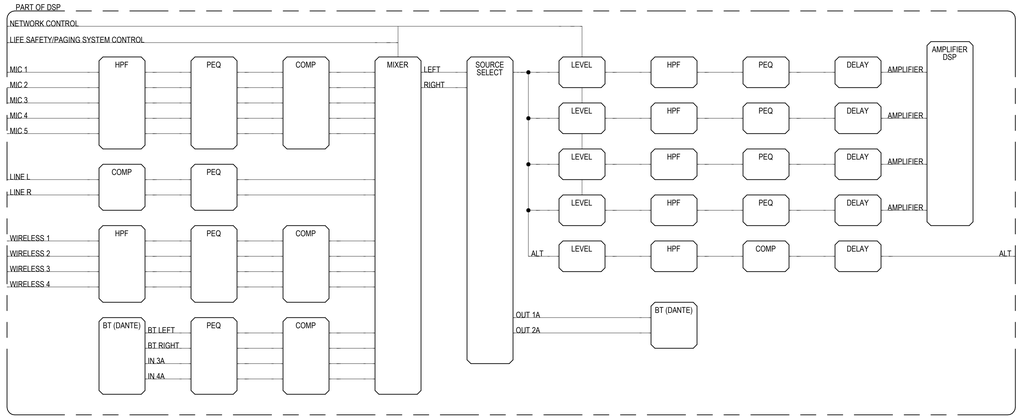
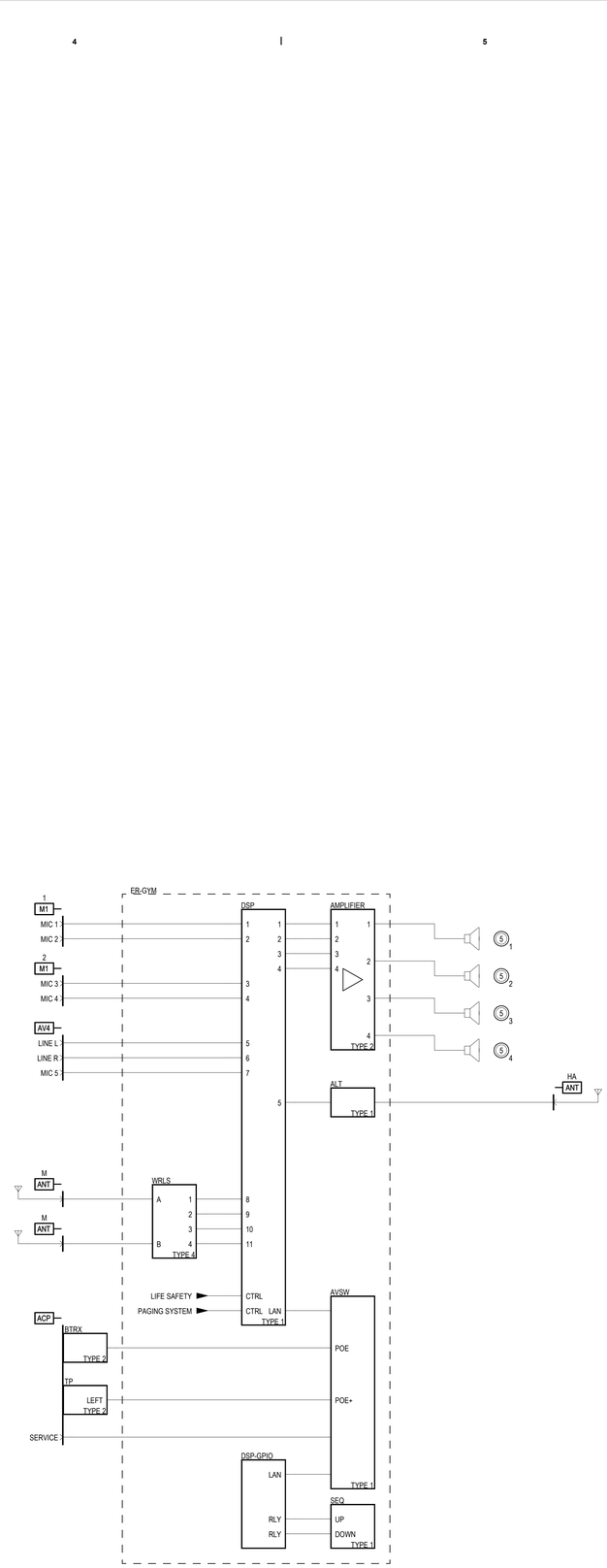
LOOSE EQUIPMENT - AUX GYM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
4	BODYPACK WIRELESS MICROPHONE	1	--
4	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	1	--
2	VOCAL MICROPHONE	1	--
1	MIC SWITCH	1	--
6	MICROPHONE STAND AND MOUNTING	1	--
6	MICROPHONE STAND AND MOUNTING	5	--
1	STEREO COMPUTER DI BOX	1	--
1	STEREO COMPUTER USB DI BOX	1	--
4	MICROPHONE CABLE	06	--
4	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
1	HEADPHONES	1	--



2 AUX GYM AUDIO DSP FUNCTIONAL DIAGRAM
12" = 1'-0"



1 AUX GYM AUDIO FUNCTIONAL DIAGRAMS
12" = 1'-0"

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PROJECT NAME

WILLOWRIDGE HIGH SCHOOL
FINE ARTS ADDITION AND
RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
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KEY PLAN

SHEET TITLE

AUX GYM AUDIO
FUNCTIONAL DIAGRAMS

SHEET NUMBER

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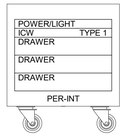
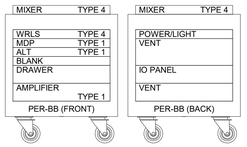
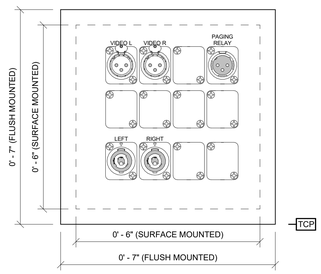


5 PER-INT RACK ELEVATION
1" = 1'-0"

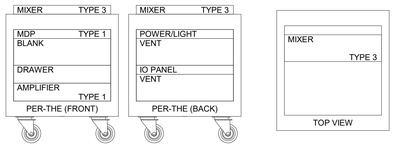


4 PER-BB RACK ELEVATIONS
1" = 1'-0"

8 THEATER CLASSROOM IO PANEL
6" = 1'-0"

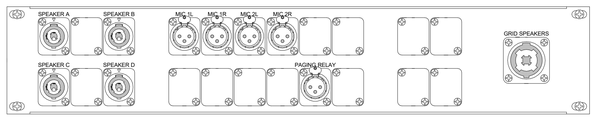


7 TCP PLATE DETAILS
6" = 1'-0"

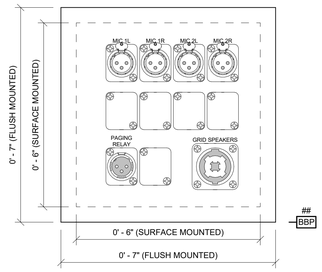


6 PER-THE RACK ELEVATIONS
1" = 1'-0"

3 BLACK-BOX CEILING MICROPHONE PLATE DETAIL
6" = 1'-0"



2 BLACK-BOX IO PANEL
6" = 1'-0"



1 BBP PLATE DETAILS
6" = 1'-0"

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PROJECT NAME

WILLOWRIDGE HIGH SCHOOL
FINE ARTS ADDITION AND
RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

BLACK-BOX/THEATER
CLASSROOM DETAILS

SHEET NUMBER

AV91.11

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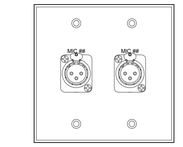
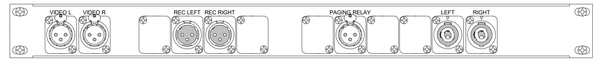
LOOSE EQUIPMENT - TYPICAL OF BAND HALL, MARIACHI, ORCHESTRA HALL (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
1	VOCAL MICROPHONE	1	--
2	INSTRUMENT MICROPHONE	2	--
2	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	2	--
2	MICROPHONE STAND AND MOUNTING	5	--
1	STEREO DI BOX	1	--
1	PORTABLE EQUIPMENT RACK	1	PER-###
1	SPEAKER	4	--
5	MICROPHONE CABLE	06	--
6	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
4	SPEAKER CABLE	6	--
3	SPEAKER CABLE	25	--
1	PAGING RELAY CABLE	6	--
1	PAGING RELAY CABLE	25	--
1	HEADPHONES	1	--

LOOSE EQUIPMENT - CHOIR (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
4	BODYPACK WIRELESS MICROPHONE	1	--
4	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	1	--
1	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	--
1	PORTABLE EQUIPMENT RACK	1	PER-CHR
1	SPEAKER	4	--
5	MICROPHONE CABLE	06	--
6	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
4	SPEAKER CABLE	6	--
3	SPEAKER CABLE	25	--
1	HEADPHONES	1	--

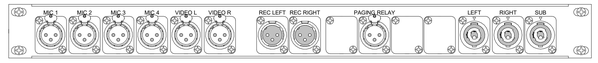
LOOSE EQUIPMENT - TYPICAL OF ENSEMBLE, SHARED ENSEMBLE, PERCUSSION (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
1	VOCAL MICROPHONE	1	--
2	INSTRUMENT MICROPHONE	2	--
2	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	2	--
2	MICROPHONE STAND AND MOUNTING	5	--
1	STEREO DI BOX	1	--
1	PORTABLE EQUIPMENT RACK	1	PER-###
4	MICROPHONE CABLE	06	--
5	MICROPHONE CABLE	25	--
2	MICROPHONE CABLE	50	--
4	SPEAKER CABLE	6	--
3	SPEAKER CABLE	25	--
1	PAGING RELAY CABLE	6	--
1	PAGING RELAY CABLE	25	--
1	HEADPHONES	1	--



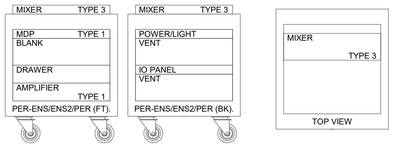
5 CEILING MICROPHONE PLATE DETAIL
6" = 1'-0"
NOTE: REFERENCE FUNCTIONALS FOR CONNECTOR LABELING.



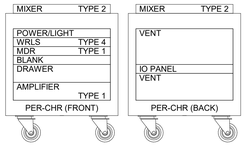
4 MUSIC ROOM IO PANEL (TYPICAL OF PER-PERC/PER-ENS/PER-ENS2)
6" = 1'-0"



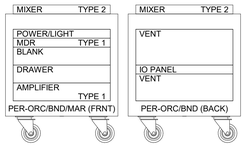
3 MUSIC ROOM IO PANEL (TYPICAL OF PER-BND/PER-CHR/PER-ORCH/PER-MAR)
6" = 1'-0"



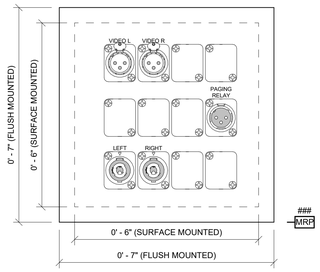
8 PER-ENS/ENS2/PER RACK ELEVATIONS
1" = 1'-0"



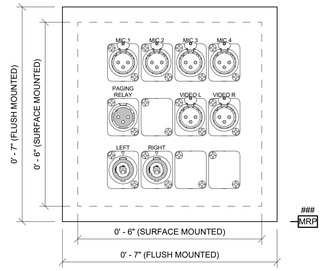
7 PER-CHR RACK ELEVATIONS
1" = 1'-0"



6 PER-ORC/BND/MAR RACK ELEVATIONS
1" = 1'-0"



2 MRP PLATE DETAILS (TYPICAL FOR MRP-ENS/MRP-ENS2/MRP-PER)
6" = 1'-0"



1 MRP PLATE DETAILS (TYPICAL FOR MRP-BND/MRP-ORC/MRP-MAR/MRP-CHR)
6" = 1'-0"

Kirksey ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024
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3424 Midcourt Road
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Carrollton, Texas 75006
972-934-3700
www.wjhw.com

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

△	DATE	ISSUE
C	08/20/2025	90% CONSTRUCTION DOCUMENTS
D	09/16/2025	ISSUE FOR BID AND PERMIT

PROJECT NAME
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
MUSIC ROOM DETAILS

SHEET NUMBER
AV91.21

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9/14/2025 10:53:42 PM
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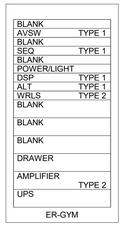
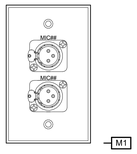
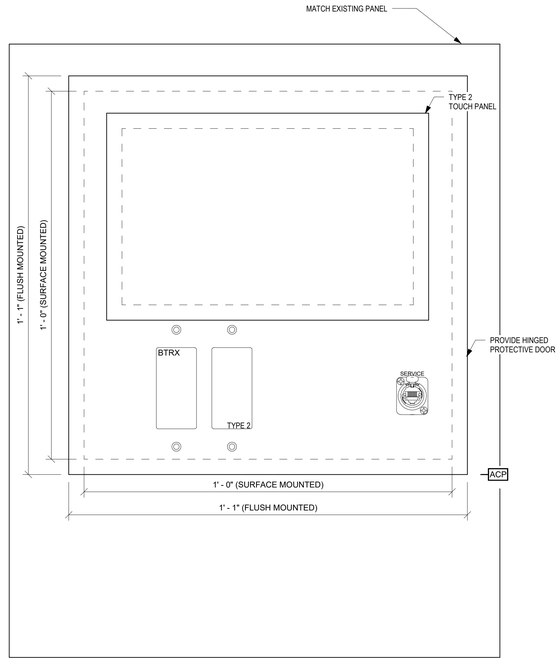


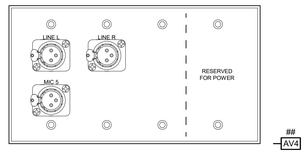
4 ER-GYM RACK ELEVATION
1" = 1'-0"



3 MICROPHONE PLATE DETAILS
6" = 1'-0"
NOTE: REFERENCE FUNCTIONAL DIAGRAMS FOR CONNECTOR LABELS.



2 ACP PLATE DETAILS
6" = 1'-0"



1 AUX GYM WALL PLATE DETAILS
6" = 1'-0"

Kirksey
ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
kirksey.com

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3424 Midcourt Road
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PROJECT NAME
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
AUX GYM DETAILS

SHEET NUMBER
AV91.31

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TECHNOLOGY SYMBOLS & LEGEND

VOICE SYMBOLS

	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS PER LOCATION.
W	SINGLE VOICE OUTLET FOR WALL-MOUNTED PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.

DATA SYMBOLS

	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF DATA OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
W	SINGLE DATA OUTLET FOR WALL-MOUNTED IP PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +42-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X COW	DATA CABLE FOR COMPUTER ON WHEELS, CABLE TYPE AS SPECIFIED MOUNTED + 18-INCHES A.F.F UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
X WAPW	DATA CABLE FOR WALL MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW.
X WAPC	DATA CABLE FOR CEILING MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW.
X WAPE	DATA CABLE FOR EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X CAMW	DATA CABLE FOR INTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X CAMC	DATA CABLE FOR CEILING MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW. REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.

ROUGH-IN & MISC. SYMBOLS

X CAME	DATA CABLE FOR EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X PRJW	DATA CABLE FOR WALL MOUNTED PROJECTOR, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATIONS WITH 20-FEET OF SLACK NEATLY COILED AND STORED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A PURPLE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACED MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW. REFER TO AUDIO/VISUAL DRAWINGS PRIOR TO INSTALLATION.
PRJC	DATA CABLE FOR CEILING MOUNTED PROJECTOR, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATIONS WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A PURPLE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACED MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW. REFER TO AUDIO/VISUAL DRAWINGS PRIOR TO INSTALLATION.
X AVCE	DATA CABLE FOR CEILING MOUNTED AUDIO/VISUAL EQUIPMENT ENCLOSURE, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATIONS WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A BLUE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACED MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW. REFER TO AUDIO/VISUAL DRAWINGS PRIOR TO INSTALLATION.
X WAPE	DATA CABLE FOR EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.

ROUGH-IN & MISC. SYMBOLS

	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
	POWER POLE WITH ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	ROUGH-IN LOCATION, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
WAP	WIRELESS ACCESS POINT. EQUIPMENT AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE. # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

VOICE/DATA SYMBOLS

	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X_Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF VOICE TERMINATIONS , Y = NUMBER OF DATA TERMINATIONS PER LOCATION.
	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X_Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF VOICE OUTLETS AND Y = NUMBER OF DATA OUTLETS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET AND SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X_Y	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X_Y	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS PER LOCATION.

FIBER OPTIC SYMBOLS

	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF FIBER OPTIC OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.

CABLE PLANT & RISER DIAGRAM

	MAINTENANCE HOLE, SIZE & TYPE AS SPECIFIED.
	PULLBOX, SIZE AND TYPE AS SPECIFIED.
UGC	DIRECT BURIED COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
AER	AERIAL COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
	CONDUIT, SIZE AND TYPE AS SPECIFIED.

COMMUNICATION AND SECURITY CABLING JACKET COLOR CODE

TYPICAL WORK AREA OUTET	BLUE
WIRELESS ACCESS POINT	GREEN
SECURITY(INTRUSION, ACCESS CONTROL, VIDEO SURVEILLANCE)	ORANGE
BUILDING WIDE PUBLIC ADDRESS / INTERCOM	WHITE
BUILDING WIDE PUBLIC ADDRESS / INTERCOM	WHITE

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
DEMARC	DEMARCATION POINT
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PAINTERCOM HEAD-END
IMC	INTERMEDIATE METAL CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PVC	POLYVINYL CHLORIDE
RSC	RIGID STEEL CONDUIT
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
TR	TELECOMMUNICATION REGION
UGC	UNDERGROUND COMMUNICATION
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF TECHNOLOGY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT 'S/DESIGN CONSULTANT'S INTERPRETATION.

INDEX OF DRAWINGS

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T2.21	TECHNOLOGY LEVEL 1 - COMPOSITE FLOOR PLAN
T2.31	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B1
T2.32	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B2
T2.33	TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B3
T3.01	TECHNOLOGY ENLARGED VIEWS AND ELEVATIONS
T4.00	TECHNOLOGY TYPICAL DETAILS
T4.01	TECHNOLOGY TYPICAL DETAILS
T4.02	TECHNOLOGY TYPICAL DETAILS
T5.00	TECHNOLOGY TYPICAL LABELING SCHEME

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Jason Gonzalez Jr
BICSI ID # 364970
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RCDD

09-16-2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY SYMBOLS & LEGEND

SHEET NUMBER

T0.00

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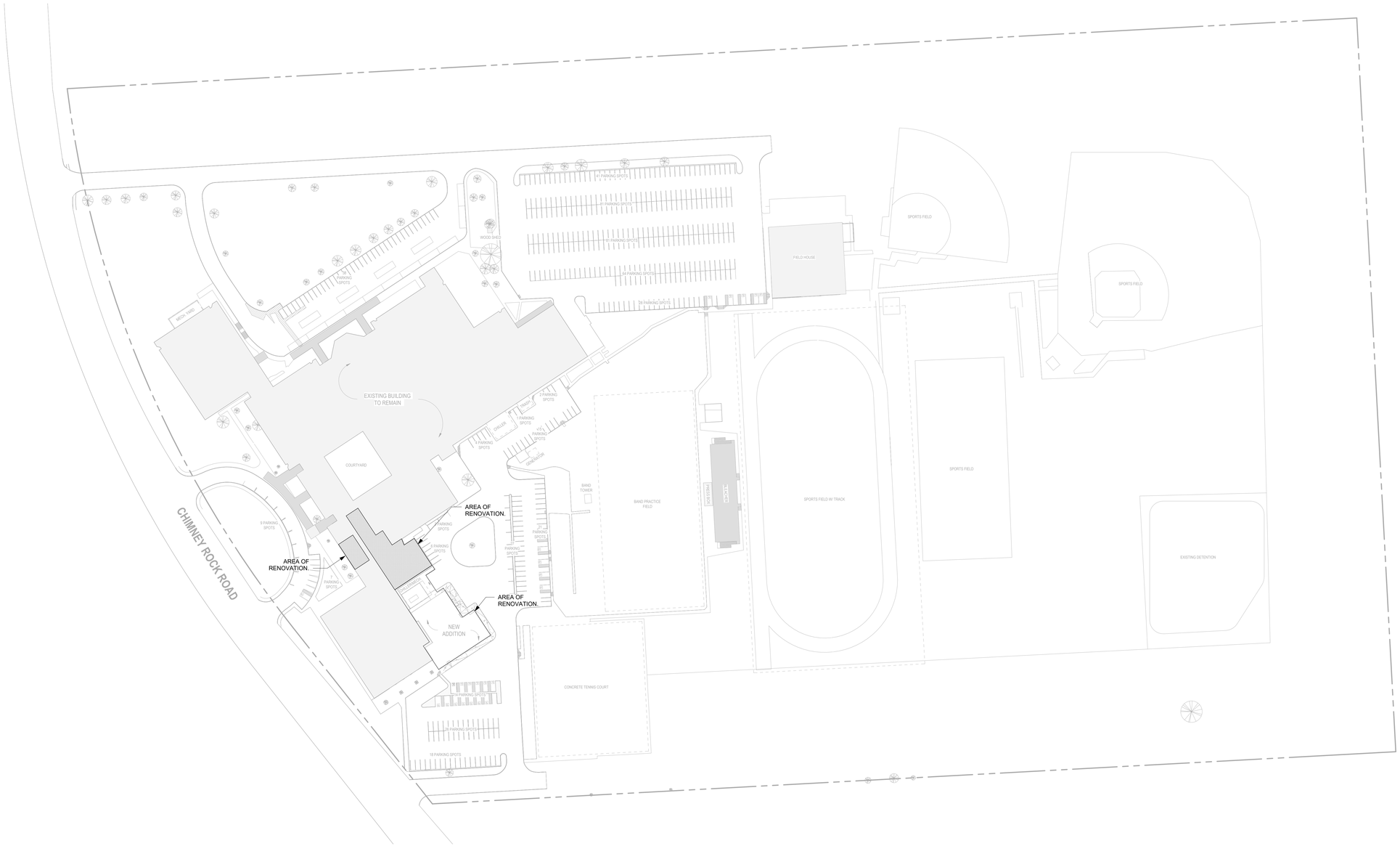

1 T1.20 TECHNOLOGY SITE PLAN
1" = 80'-0"

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KIRKSEY PROJECT NO. 2023306

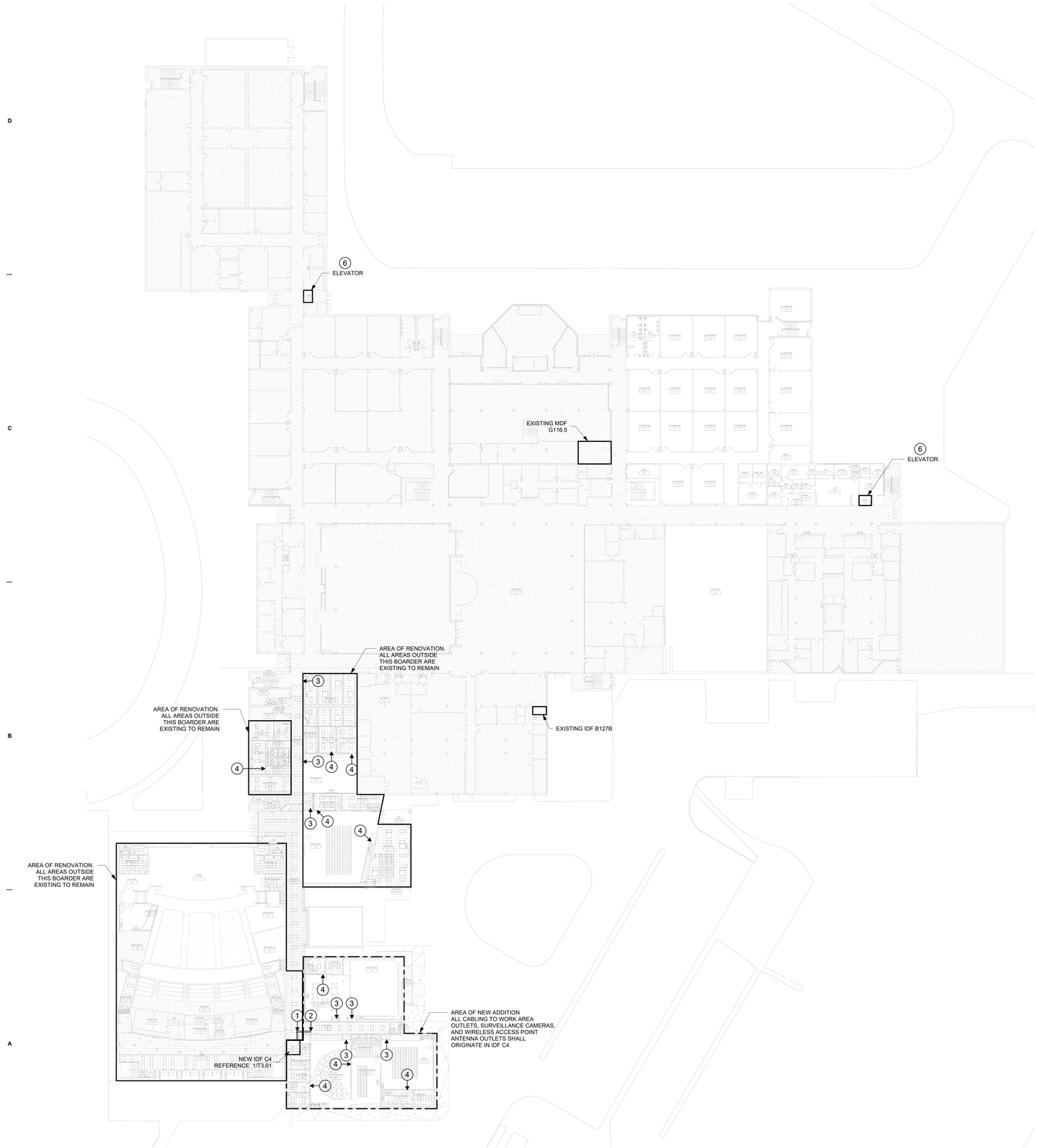
KEY PLAN

SHEET TITLE

TECHNOLOGY SITE PLAN

SHEET NUMBER

T1.20



1 / T2.21 TECHNOLOGY LEVEL 1 - COMPOSITE FLOOR PLAN
1/32" = 1'-0"

TECHNOLOGY COMPOSITE PLAN GENERAL NOTES

1. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
2. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
6. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC, THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
7. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR OR NEAREST MDF/IDF. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
8. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
9. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
10. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM.
14. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR OR NEAREST MDF/IDF. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR OR NEAREST MDF/IDF TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
15. CONDUIT(S) INSTALLED IN-SLAB OR UNDER-SLAB TO FLOOR BOXES, POKE-THURS, AND TO WORK AREA OUTLETS, ETC. SHALL BE INSTALLED WITH WET RATED CABLE(S).
16. NO GRID WIRE SHALL BE UTILIZED FOR SUPPORTS ONLY USE SOLID SUPPORTS (CLIPS, ALL THREAD, ANCHORS, ETC.).
17. WIRE BASKET TRAY SHALL HAVE A 6" CLEARANCE FROM CEILING TILE TO THE BOTTOM OF BASKET TRAY, 12" CLEARANCE FROM THE TOP OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC., AND 12" CLEARANCE FROM THE SIDE OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC. WIRE BASKET TRAY SHALL BE PROPERLY GROUNDED AND BONDED AS PER INDUSTRY STANDARDS (BY DIV. 26).

TECHNOLOGY COMPOSITE PLAN KEYED NOTES

1. 12-INCH-WIDE X 2-INCH-HIGH WIRE BASKET TYPE ABOVE ACCESSIBLE CEILING AND SUSPENDED FROM THE STRUCTURE USING A TRAPEZE CONFIGURATION. WIRE BASKET TRAY SHALL HAVE A 6 " CLEARANCE FROM CEILING TILE TO THE BOTTOM OF BASKET TRAY AND 12" CLEARANCE FROM THE TOP OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC., 12 " CLEARANCE FROM THE SIDE OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC. WIRE BASKET TRAY SHALL BE PROPERLY GROUNDED AND BONDED AS PER INDUSTRY STANDARDS (BY DIV. 26).
2. (4) 4-INCH EZ-PATH ABOVE ACCESSIBLE CEILING AND SECURED TO WALL. EZ-PATH SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY (BY DIV. 26)
3. (3) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY (BY DIV. 26)
4. (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY (BY DIV. 26)
5. (1) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE
6. RECONNECT CABLE FOR EMERGENCY ELEVATOR INTERCOM AND DIALER FOR ELEVATOR RENOVATION AS PART OF ALTERNATE. COORDINATE RECONNECTION POINT WITH ELEVATOR INSTALLER.

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY LEVEL 1 - COMPOSITE FLOOR PLAN

SHEET NUMBER

T2.21

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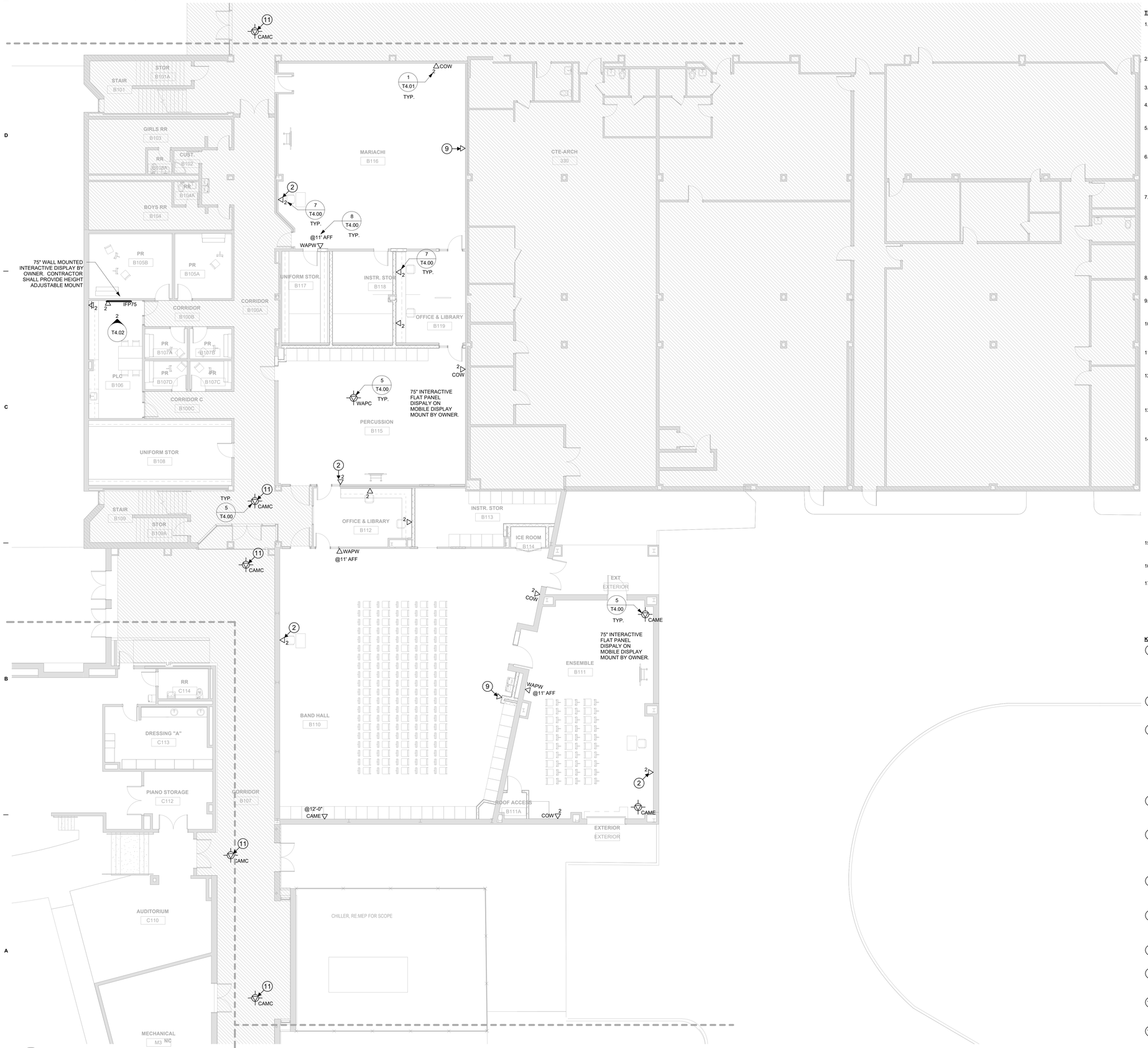

1 T2.31 TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B1
1/8" = 1'-0"

9/23/2025 3:17:53 PM
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TECHNOLOGY FLOOR PLANS GENERAL NOTES:

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9. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
10. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
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15. CONDUIT(S) INSTALLED IN-SLAB OR UNDER-SLAB TO FLOOR BOXES, POKE-THURS, AND TO WORKAREA OUTLETS, ETC. SHALL BE INSTALLED WITH WET RATED CABLE(S).
16. NO GRID WIRE SHALL BE UTILIZED FOR SUPPORTS ONLY USE SOLID SUPPORTS (CLIPS, ALL-THREAD, ANCHORS, ETC.).
17. WIRE BASKET TRAY SHALL HAVE A 6" CLEARANCE FROM CEILING TILE TO THE BOTTOM OF BASKET TRAY, 12" CLEARANCE FROM THE TOP OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC., AND 12" CLEARANCE FROM THE SIDE OF THE BASKET TRAY TO HVAC UNITS, HVAC DUCTS, HEATING DUCTS, AND HEATING EQUIPMENT, ETC. WIRE BASKET TRAY SHALL BE PROPERLY GROUNDED AND BONDED AS PER INDUSTRY STANDARDS (BY DIV. 26).

KEYED NOTES:

1. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY-IN TYPE CEILING. THE CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE WALLS AND IN THE MOST DIRECT MANNER POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH, ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. (BY DIV 26)
2. INSTRUCTOR'S DATA OUTLET SHALL BE INSTALLED 4-FEET FROM ADJACENT WALL OR ANY OBSTRUCTION (COLUMN FURR-OUT, CASEWORK, ETC.) GREATER THAN 16". ADJACENT POWER RECEPTACLE REQUIRED.
3. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED WALL MOUNTED MONITOR WHERE THERE IS AN ACCESSIBLE CEILING. CONTRACTOR SHALL PLACE A BLUE ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27)
4. DATA CABLE FOR MECHANICAL/ELECTRICAL CONTROLS. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
5. DATA CABLE FOR HVAC UNIT CONTROL PANEL. DATA CABLE TERMINATED INSIDE THE VERTIV BOX/PANEL. VERTIV BOX/PANEL SHOULD BE RIGHT ABOVE HVAC UNIT, DIV. 27 CONTACTOR TO COORDINATE WITH HVAC CONTACTOR. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
6. DATA CABLES FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED ACCESS CONTROL SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH- IN REQUIREMENTS. (BY DIV. 27/26)
7. DATA CABLES FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED INTRUSION DETECTION SYSTEM SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
8. DATA CABLES FOR AV EQUIPMENT RACK. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
9. DATA CABLES FOR AV EQUIPMENT WALL RACK. PROVIDE OUTLET AND TERMINATE CABLE WITHIN RACK. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
10. DATA CABLE FOR AV WALL PLATE. TERMINATE CABLE WITHIN AV WALLPLATE REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
11. EXISTING DEVICE TO REMAIN

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KIRKSEY PROJECT NO. 2023306

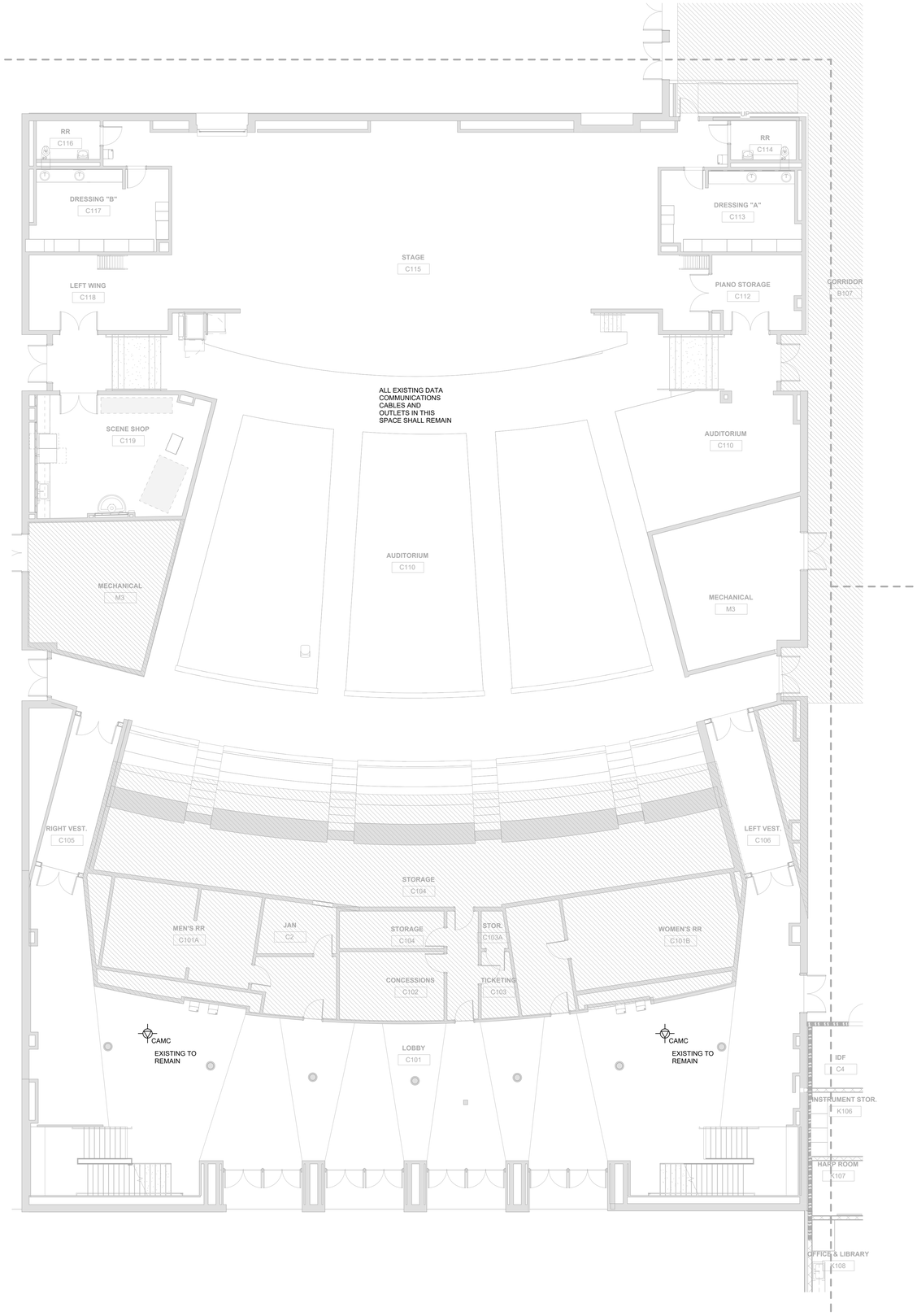
KEY PLAN

SHEET TITLE

TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B1

SHEET NUMBER

T2.31



1 T2.32 TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B2
1/8" = 1'-0"

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1. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS/WIRING BOUNDARIES.
2. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
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7. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR OR NEAREST MDF/IDF. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
8. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES/ ROUGH-INS SHALL BE ALLOWED.
9. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
10. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM.
14. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY-IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY- IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR OR NEAREST MDF/IDF. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR OR NEAREST MDF/IDF TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
15. CONDUIT(S) INSTALLED IN-SLAB OR UNDER-SLAB TO FLOOR BOXES, POKE-THURS, AND TO WORKAREA OUTLETS, ETC. SHALL BE INSTALLED WITH WET RATED CABLE(S).
16. NO GRID WIRE SHALL BE UTILIZED FOR SUPPORTS ONLY USE SOLID SUPPORTS (CLIPS, ALL-THREAD, ANCHORS, ETC.).

KEYED NOTES:

1. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY-IN TYPE CEILING. THE CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE WALLS AND IN THE MOST DIRECT MANNER POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH, ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. (BY DIV 26)
2. INSTRUCTOR'S DATA OUTLET SHALL BE INSTALLED 4-FEET FROM ADJACENT WALL OR ANY OBSTRUCTION (COLUMN FURR-OUT. CASEWORK, ETC.) GREATER THAN 16". ADJACENT POWER RECEPTACLE REQUIRED.
3. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED WALL MOUNTED MONITOR WHERE THERE IS AN ACCESSIBLE CEILING. CONTRACTOR SHALL PLACE A BLUE ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27)
4. DATA CABLE FOR MECHANICAL/ELECTRICAL CONTROLS. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
5. DATA CABLE FOR HVAC UNIT CONTROL PANEL. DATA CABLE TERMINATED INSIDE THE VERTIV BOX/PANEL. VERTIV BOX/PANEL SHOULD BE RIGHT ABOVE HVAC UNIT. DIV. 27 CONTACTOR TO COORDINATE WITH HVAC CONTACTOR. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
6. DATA CABLES FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED ACCESS CONTROL SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
7. DATA CABLES FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED INTRUSION DETECTION SYSTEM SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
8. DATA CABLES FOR AV EQUIPMENT RACK. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
9. DATA CABLES FOR AV EQUIPMENT WALL RACK. PROVIDE OUTLET AND TERMINATE CABLE WITHIN RACK. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
10. DATA CABLE FOR AV WALL PLATE. TERMINATE CABLE WITHIN AV WALLPLATE REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.

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Jason Gonzalez Jr
BICSI ID # 364970
EXPIRES 12-31-25
RCDD

09-16-2025

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

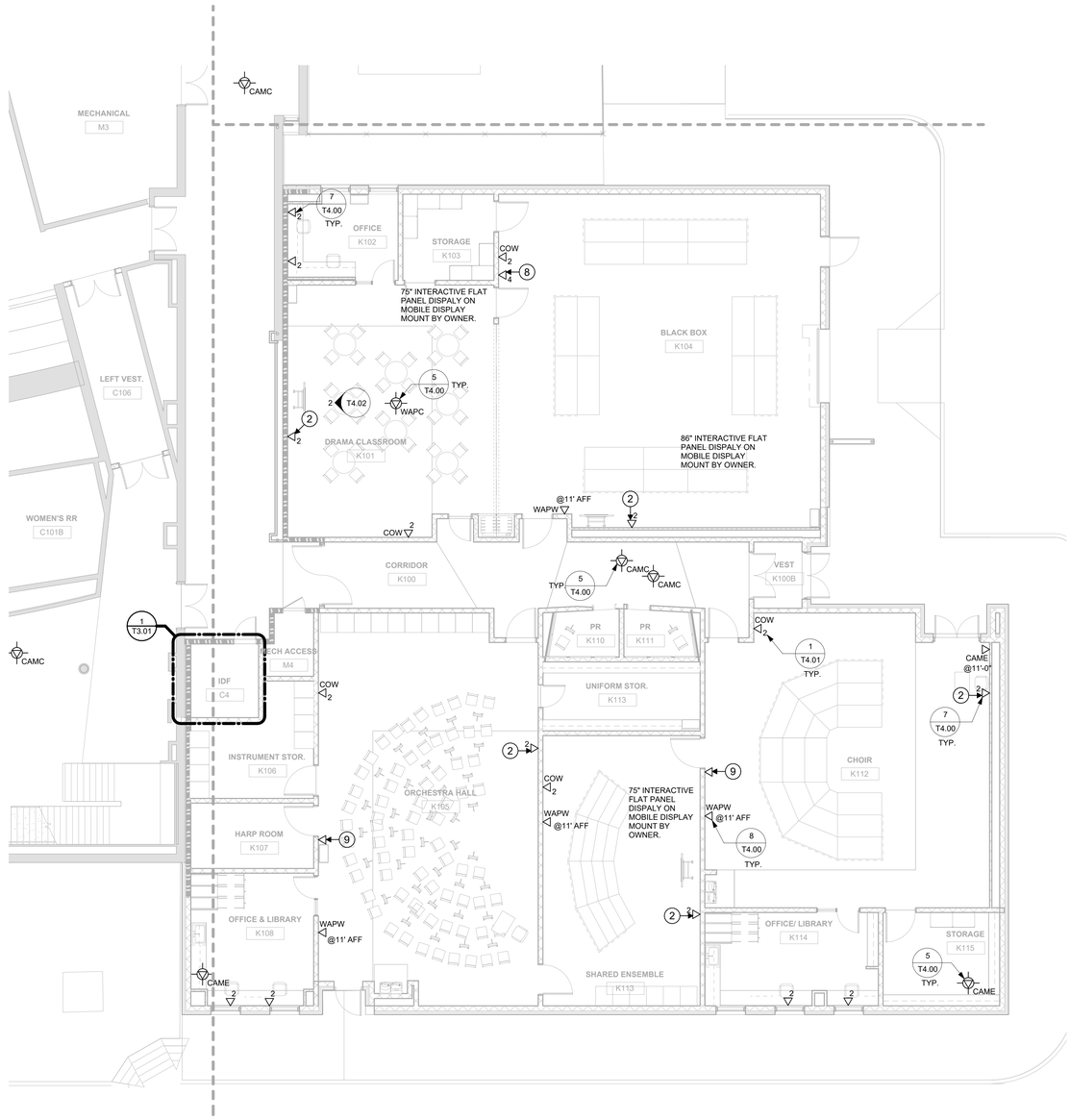
KEY PLAN

SHEET TITLE

TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B2

SHEET NUMBER

T2.32



1 T2.33 TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B3
1/8" = 1'-0"

TECHNOLOGY FLOOR PLANS GENERAL NOTES:

1. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS/WIRING BOUNDARIES.
2. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
6. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
7. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR OR NEAREST MDF/IDF. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
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11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
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KEYED NOTES:

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY LEVEL 1 - FLOOR PLAN - AREA B3

SHEET NUMBER

T2.33

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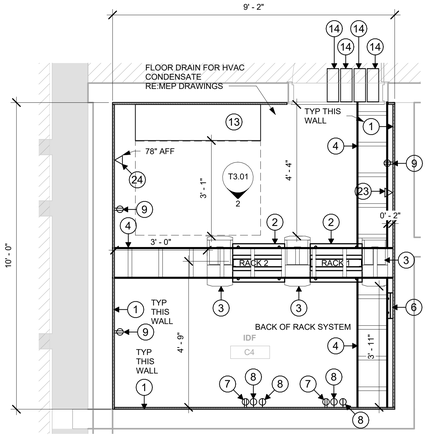
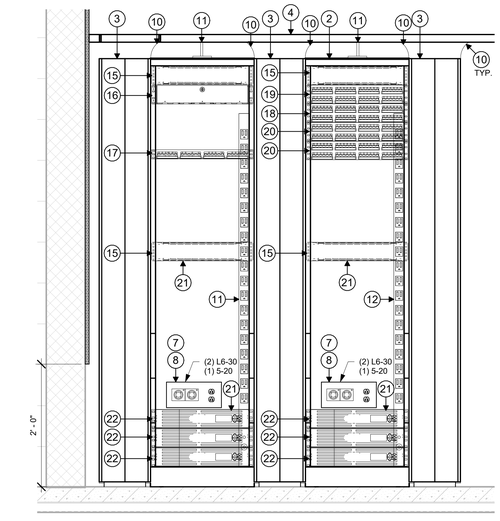
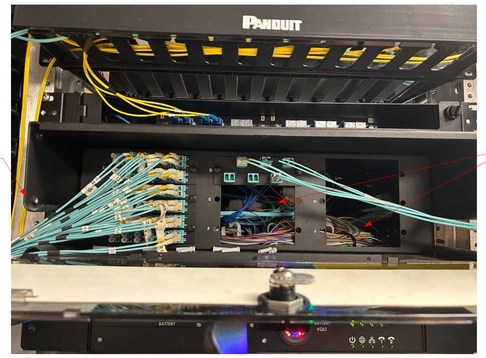


1 T3.01 IDF C4 - ENLARGED PLAN
1/2" = 1'-0"

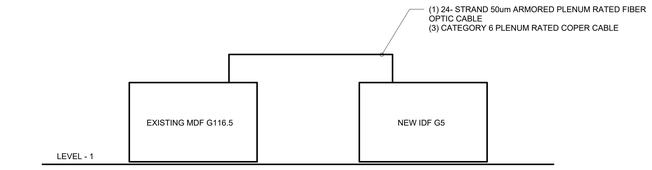


2 T3.01 IDF C4 RACK ELEVATION
1" = 1'-0"

4 T3.01 EXISTING MDF G116.5 RACK SYSTEM
N.T.S



5 T3.01 EXISTING MDF G116.5 FIBER DISTRIBUTION PANEL
1" = 1'-0"



3 T3.01 TECHNOLOGY RISER DIAGRAM
N.T.S

GENERAL NOTES

1. IN THE EVENT THE CONTRACTOR PROVIDES AND INSTALLS 2-POST EQUIPMENT RACKS IN THE MDF/IDF ROOMS, THE DIVISION 27 CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE IF THE OWNER NEEDS ADDITIONAL EQUIPMENT RACK SUPPORT SUCH AS RAILS OR DEEP SHELVING TO SUPPORT FUTURE OWNER PROVIDED/OWNER INSTALLED UPS SYSTEM EQUIPMENT.
2. CONTRACTOR SHALL CONFIRM PATCH PANEL COUNTS WITH CABLE QUANTITIES PRIOR TO BIDDING. PATCH PANEL QUANTITY SHALL BE BASED OF OFF DEVICE QUANTITY SHOWN ON FLOOR PLANS AND REQUIRED SPARE PORTS. PATCH PANEL QUANTITY SHOWN ON RACKS ARE FOR REFERENCE ONLY.
3. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM.
4. A VERTICAL SECTION OF LADDER RACK SHALL BE ATTACHED TO THE WALLBOARD TO MANAGE BACKBONE CABLES, SERVICE PROVIDER CABLES, OR CABLES AS THEY TRANSITION FROM THE ENTRANCE CONDUITS TO OVERHEAD LADDER RACK.
5. MAX (5) DATA PATCH PANELS ON INITIAL INSTALLATION ANY ADDITIONAL PATCH PANEL WILL BE PLACE ON THE NEXT RACK.
6. ALL RACK EQUIPMENT AND PATCH PANELS SHALL BE MOCKED UP AND COORDINATED WITH OWNER AND CONSULTANT PRIOR TO PERMANENT ATTACHMENT AND OR INSTALLATION.

KEYED NOTES

1. 4-FEET X 8-FEET X ¾-INCH A-B GRADE, VOID FREE, FIRE RATED PLYWOOD INSTALLED VERTICALLY STARTING AT 24-INCHES ABOVE FINISHED FLOOR ON ALL PERIMETER WALLS. PAINT WITH (2) COATS OF FIRE RETARDANT PAINT. (BY DIV. 27)
2. 19-INCH X 84-INCH RELAY RACK (BY DIV. 27)
3. 10-INCH VERTICAL WIRE MANAGERS. (BY DIV. 27)
4. 12-INCH LADDER RACK MOUNTED AT 87-INCHES ABOVE FINISHED FLOOR. LADDER RACK SHALL BE SUPPORTED PER MANUFACTURE AND INDUSTRY STANDARDS. (BY DIV. 27)
5. 18-INCH LADDER RACK MOUNTED AT 87-INCHES ABOVE FINISHED FLOOR. LADDER RACK SHALL BE SUPPORTED PER MANUFACTURE AND INDUSTRY STANDARDS. (BY DIV. 27)
6. GROUND BUS BAR MOUNTED AT 84-INCHES ABOVE FINISHED FLOOR. (BY DIV. 27)
7. DEDICATED 20 AMP CIRCUIT ON EMERGENCY/GENERATOR BACK-UP WITH DUPLEX NEMA 5-20R RECEPTACLE MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR BEHIND THE EQUIPMENT RACKS. (BY DIV. 26)
8. DEDICATED 30 AMP CIRCUIT ON EMERGENCY/GENERATOR BACK-UP WITH SIMPLEX NEMA L6-30R TWIST LOCK RECEPTACLE MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR BEHIND THE EQUIPMENT RACKS. (BY DIV. 26)
9. 20 AMP CIRCUIT ON EMERGENCY/GENERATOR BACK-UP WITH DUPLEX NEMA 5-20R RECEPTACLE FLUSH MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR. (BY DIV.26)
10. CABLE RUNWAY RADIUS DROP CROSS MEMBER (BY DIV. 27)
11. CABLE RUNWAY ELEVATION KIT (BY DIV. 27)
12. VERTICAL POWER STRIP WITH STAND-OFF BRACKET(S), MOUNTED ON THE BACK SIDE OF RELAY RACKS. VERTICAL POWER AND STAND-OFF BRACKETS SHALL NOT INTERFERE WITH NETWORK SWITCHES. (BY DIV. 27)
13. FLOOR MOUNTED HVAC UNIT. PIPING SHALL EXIT THE ROOM IN THE CORNER. THE DISCONNECT AND HAVC PANEL SHALL BE LOCATED ABOVE THE FLOOR MOUNTED HAVC UNIT. (BY DIV. 23)
14. (4) 4-INCH EZPATH FIRE RATED ASSEMBLY
15. 2RU HORIZONTAL WIRE MANAGER (BY DIV. 27)
16. 2RU RACK MOUNTED FIBER OPTIC ENCLOSURE (BY DIV. 27)
17. 1RU VOICE BACKBONE 24 PORT ANGLED PATCH PANEL (BY DIV. 27)
18. 2RU 48 PORT ANGLED PATCH PANEL FOR VIDEO SURVEILLANCE CABLES (BY DIV. 27)
19. 2RU 48 PORT ANGLED PATCH PANEL FOR WIRELESS ACCESS POINT CABLES (BY DIV. 27)
20. 2RU 48 PORT ANGLED PATCH PANEL FOR DATA CABLES (BY DIV. 27)
21. CISCO DATA NETWORK EQUIPMENT (BY OWNER)
22. UNINTERRUPTABLE POWER SUPPLY (BY OWNER)
23. WALL MOUNTED PHONE. INSALL OUTLET AT 48" AFF. ENSURE A 12-INCH CLEAR SPACE AROUND OUTLET. COORDINATE LOCATION WITH OWNER AND CONSULTANT PRIOR TO ROUGH-IN
24. WALL MOUNTED SURVEILLANCE CAMERA. INSALL OUTLET AT 6" BELOW CABLE RUNWAY. ENSURE A 12-INCH CLEAR SPACE AROUND OUTLET. COORDINATE LOCATION WITH OWNER AND CONSULTANT PRIOR TO ROUGH-IN

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY ENLARGED VIEWS AND ELEVATIONS

SHEET NUMBER

T3.01

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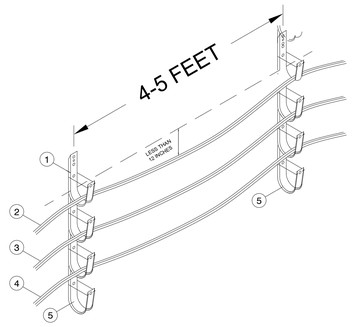
NOTE TO CONTRACTOR:
UNLESS OTHERWISE NOTED, LOW VOLTAGE CABLING SHALL BE INSTALLED WITHIN 6-INCHES OF THE CEILING AND LAST VERTICALLY SITUATED J-HOOK SHALL BE NO HIGHER THAN 18" OF CEILING. CABLES AND SUPPORTS SHELL BE ACCESSIBLE BY TECHNICIAN ON A STANDARD A-FRAME LADDER.

CONTRACTOR SHALL MAINTAIN AT LEAST 6-INCHES OF SEPARATION BETWEEN CABLING BUNDLES AND MECHANICAL DUCTWORKS, EQUIPMENT, PIPING OR OTHER SYSTEMS IN THE CEILING PLENUM

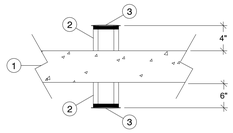


KEYED NOTES:

1. J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING (BY DIV 27).
2. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
3. A/V CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
4. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).
5. SPARE J-HOOK (BY DIV 27).

1 / T4.00 TYPICAL J-HOOK CABLE PATHWAY

SCALE: N.T.S.

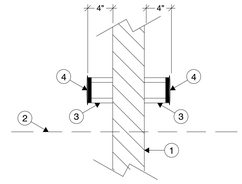


KEYED NOTES:

1. SCHEDULED FLOOR OR DECK.
2. CONDUIT SLEEVE (BY DIV 26).
3. NYLON BUSHING (BY DIV 26).

2 / T4.00 TYPICAL CONDUIT SLEEVE THROUGH FLOOR OR DECK DETAIL

SCALE: N.T.S.

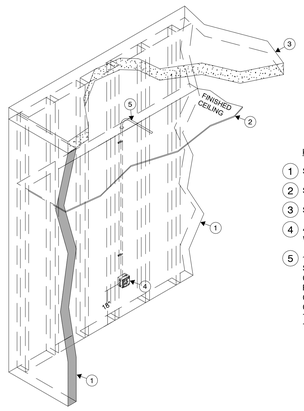


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. CONDUIT SLEEVE (BY DIV 26).
4. NYLON BUSHING (BY DIV 26).

3 / T4.00 TYPICAL CONDUIT SLEEVE GOING THROUGH WALL

SCALE: N.T.S.

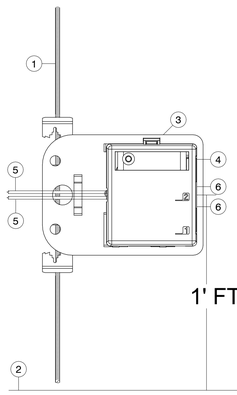


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. SCHEDULED DECK ABOVE.
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX WITH DOUBLE GANG PLASTER RING (BY DIV 26).
5. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH. (BY DIV 26).

4 / T4.00 TYPICAL TECHNOLOGY CONDUIT ROUGH-IN

SCALE: N.T.S.

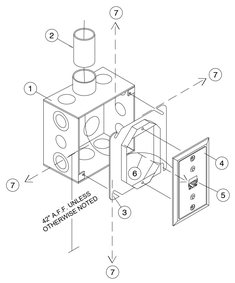


KEYED NOTES:

1. ALL THREAD TO BUILDING STRUCTURE (BY DIV. 27)
2. SCHEDULING CEILING
3. IN-PLENUM CEILING BRACKET PN 49223-CBC ATTACHED TO ALL THREAD (BY DIV. 27)
4. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BRACKET (BY DIV. 27)
5. DATA CABLE (BY DIV. 27)
6. DATA INSERT (BY DIV. 27)

5 / T4.00 TYPICAL ABOVE CEILING DATA OUTLET

SCALE: N.T.S.

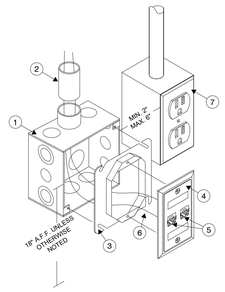


KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH PHONE STUDS (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. PROVIDE A MINIMUM OF 8-INCHES OF CLEARANCE AROUND BACK-BOX TO ACCOMODATE PHONE APPLIANCE THAT WILL BE INSTALLED ON THIS OUTLET

6 / T4.00 TYPICAL WALL PHONE OUTLET CONFIGURATION

SCALE: N.T.S.

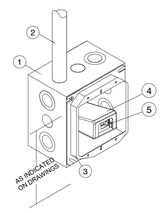


KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

7 / T4.00 TYPICAL DUAL DATA OUTLET CONFIGURATION

SCALE: N.T.S.

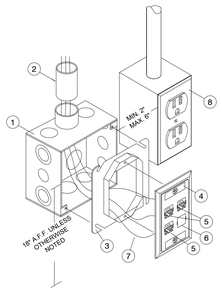


KEYED NOTES:

1. 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. DOUBLE GANG PLASTER RING (BY DIV 26).
4. SURFACE MOUNT BOX INSIDE THE 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH DOUBLE GANG BOX (BY DIV 27).
5. RJ-45 INSERT (BY DIV 27).

8 / T4.00 TYPICAL WALL-MOUNTED WIRELESS ACCESS POINT

SCALE: N.T.S.



KEYED NOTES:

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3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. BLANK INSERT (BY DIV 27).
7. CABLE AS SPECIFIED (BY DIV 27).
8. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

9 / T4.00 TYPICAL THREE DATA OUTLET CONFIGURATION

SCALE: N.T.S.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

kirksey.com

These drawings have been prepared as one coordinated set of drawings and are complimentary. What is required by one drawing is required by all of the drawings, even if a detail or component part is not identified on every sheet. Any user's reliance on a single or select few sheet(s) of the drawings without consideration for the information included in the entire set of drawings will be at the user's sole risk and shall not form the basis for a request for additional compensation or time.

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Jason Gonzalez Jr
BICSI ID # 364970
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RCDD

09-16-2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY TYPICAL DETAILS

SHEET NUMBER

T4.00

9/11/2025 2:17:32 PM
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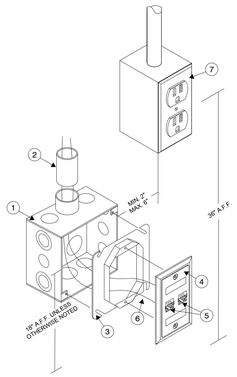

KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
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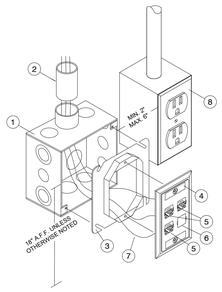
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26). ELECTRICAL RECEPTACLE TO BE INSTALLED AT 36" A.F.F AND ADJACENT TO COW / SECONDARY TEACHING OUTLET LOCATION.

1 / T4.01 TYPICAL COW / SECONDARY TEACHER'S DATA OUTLET CONFIGURATION

SCALE: N.T.S.

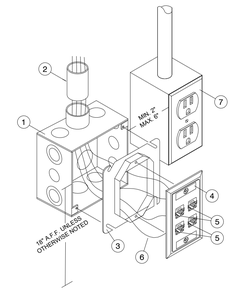


KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. BLANK INSERT (BY DIV 27).
7. CABLE AS SPECIFIED (BY DIV 27).
8. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

2 / T4.01 TYPICAL THREE DATA OUTLET CONFIGURATION

SCALE: N.T.S.



KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
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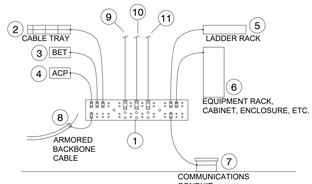
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

3 / T4.01 TYPICAL FOUR DATA OUTLET CONFIGURATION

SCALE: N.T.S.

GENERAL NOTES:

1. MAKE ALL BONDING CONNECTIONS WITH TWO-HOLE COMPRESSION LUGS.
2. SIZE ALL BONDING CONDUCTORS PER TELECOM BONDING CONDUCTOR SIZING TABLE.
3. THIS IS A TYPICAL DETAIL, NOT ALL EQUIPMENT REQUIRING BONDING MAY BE PRESENT IN EACH TELECOM ROOM.



KEYED NOTES:

1. TELECOMMUNICATIONS GROUNDING BUSBAR WITH BICSI STYLE HOLE PATTERN, SIZED PER [DRAWINGS/SPECIFICATIONS] (BY DIV 27).
2. BOND TO CABLE TRAY IN CORRIDOR. (BY DIV 26)
3. BOND TO BUILDING ENTRANCE TERMINALS AND PROTECTORS. (BY DIV 27)
4. BOND TO ACCESS CONTROL PANELS AND OTHER SECURITY ENCLOSURES. (BY DIV 28)
5. BOND TO OVERHEAD LADDER RACK; ENSURE ALL LADDER RACK SECTIONS ARE BONDED TOGETHER. (BY DIV 27)
6. BOND TO EACH EQUIPMENT RACK, CABINET, ENCLOSURE, ETC. (BY DIV 27)
7. BOND TO EACH CONTINUOUS COMMUNICATIONS CONDUIT THAT ENTERS THE TELECOM ROOM. (SLEEVES DO NOT NEED TO BE BONDED). (BY DIV 26)
8. BOND TO EACH ARMORED BACKBONE CABLE THAT TERMINATES IN THE TELECOM ROOM. (BY DIV 27)
9. FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, PROVIDE BONDING CONDUCTOR FOR TELECOMMUNICATIONS TO MAIN ELECTRICAL GROUND. (BY DIV 26)
10. FOR TELECOMMUNICATIONS GROUNDING BUSBARS ONLY: BONDING CONDUCTOR TO [BUILDING STEEL] [TELECOMMUNICATIONS BONDING BACKBONE] [GROUND BUS OF ELECTRICAL PANEL SERVING TELECOM ROOM POWER]. (BY DIV 26)
11. [FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, PROVIDE TELECOMMUNICATIONS BONDING BACKBONE PER TYPICAL GROUNDING DIAGRAM.] (BY DIV 26)

4 / T4.01 TELECOMMUNICATIONS BONDING BUSBAR DETAIL

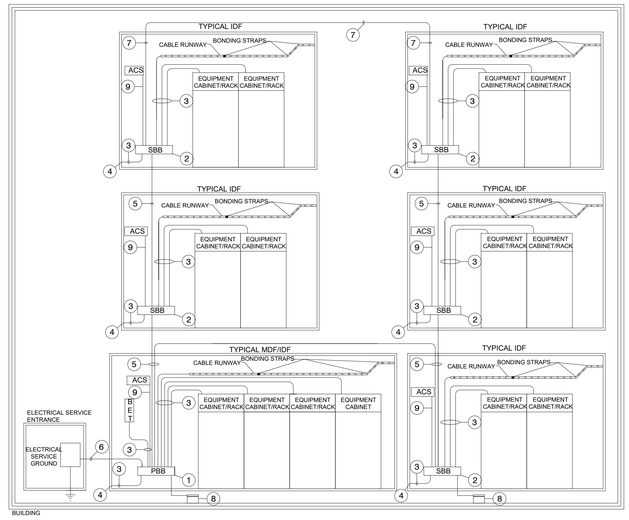
SCALE: N.T.S.

TBB/GE CONDUCTOR SIZING	
LENGTH IN LINEAR M (FT)	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

ROUTE THE TBB TO EACH TGB IN AS STRAIGHT A PATH AS POSSIBLE. THE TBB SHOULD BE INSTALLED AS A CONTINUOUS CONDUCTOR, AVOIDING SPLICES WHERE POSSIBLE.

5 / T4.01 TBB CONDUCTOR SIZING

SCALE: N.T.S.

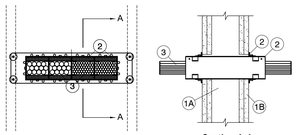


1. TELECOMMUNICATIONS MAIN GROUNDING BUS BAR (PBB)(BY DIV. 27)
2. TELECOMMUNICATIONS GROUNDING BUS BAR (SBB)(BY DIV 27)
3. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC). REFER TO CONDUCTOR SIZING CHART FOR EXACT SIZE REQUIREMENTS (BY DIV 27)
4. CONNECT TO GROUNDED BUILDING STEEL WHEN EXPOSED IN ROOM.
5. TELECOMMUNICATIONS BONDING BACKBONE (TBB). REFER TO CONDUCTOR SIZING CHART FOR EXACT SIZE REQUIREMENTS (BY DIV 26)
6. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC). BY ELECTRICAL CONTRACTOR.REFER TO CONDUCTOR SIZING CHART FOR EXACT SIZE REQUIREMENTS.
7. GROUNDING EQUALIZER CONDUCTOR (GEC)(BY DIV 26)
8. BOUND WITH GROUDING COLLARS TO EACH CONTINUOUS CONDUIT THAT ENTERS THE TELECOM ROOM. (BY DIV 26).
9. BOND TO EACH ACCESS CONTROL PANEL AND OTHER SECURITY PANELS IN HE TELECOM ROOM. (BY DIV 27)

6 / T4.01 TYPICAL GROUNDING DIAGRAM

SCALE: N.T.S.

System No. W-L-3218
F Ratings - 1, 2, 3 and 4 Hr (See Items 1 and 3)
T Ratings - 3/4 and 1 Hr (See Item 3)
L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM (See Item 3)
L Rating At 400 F - Less Than 1, 2 or 3 CFM (See Item 3)



Section A-A

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

   A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

   B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Opening in gypsum board to be max 1/4 in. (6 mm) larger then width and height dimensions of firestop device(s).

   The hourly F Rating of the firestop system is dependent upon the hourly rating of the wall in which it is installed.

2. Firestop Device* - One, two, three, four or seven firestop device modules ganged together. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm). In round openings, the space between the firestop device and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. Each four- and seven-gang steel wall plate shall be fastened to the studs with steel screws sized to extend through the gypsum board layers and penetrate 1/2 in. (13 mm) into the framing member. Each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

   As an alternate, the four- and seven-gang steel wall plates may be installed directly against the studs for walls having 16 and 24 in. (406 and 610 mm) center-to-center stud spacing, respectively, prior to installation of the gypsum board layers. The steel wall plates shall be secured to the stud by means of steel screws. After installation of the steel wall plates and firestop device modules, the gypsum board shall be installed as specified in the individual U300 or U400 Design with a maximum 1/8 in. (3.2 mm) gap between the firestop device module and the cutout in the gypsum board. Gap between the firestop device module and the cutout in the gypsum board may be filled with gypsum joint compound or fill material (Item 4).

   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 Fire Rated Pathway

2A. Firestop Device* - Extension Module - (Optional, Not Shown) - Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

   SPECIFIED TECHNOLOGIES INC - EZ PATH Extension

3. Cables - Within the loading area for each firestop device module, the cables may represent a 0 to 100 percent visual fill. Cable fill to be distributed at a uniform height across the width of the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:

   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
   H. Fiber optic cable with PVC or polyethylene (PE) jacket and insulation having a max diam of 5/8 in. (16 mm).
   I. Optical Fiber Raceway+ - Max 1-1/2 in. (38 mm) diam (or smaller) optical fiber raceway ("innerduct") formed of either PVC or polyvinylidene fluoride (PVDF) with optical fiber cable fill. Raceways installed in accordance with the National Electrical Code (NFPA 70).

   When the hourly rating of the wall assembly is 1 hr, the T Rating is 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T Rating is 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T Rating is 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F Rating is 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F Rating is 4 hr.

   The L Rating for each empty firestop device module is less than 1 cfm at ambient and at 400F. When Item 3A is used, the L Rating for each firestop device module with 100 percent visual fill is 4 cfm at ambient and 3 cfm at 400F. When Item 3F is used, the L Rating for each firestop device module with 100 percent visual fill is 1.3 cfm at ambient and 1 cfm at 400F. When Item 3G or 3H is used, the L Rating for each firestop device module with 100 percent visual fill is 7 cfm at ambient and 2 cfm at 400F.

4. Fill, Void or Cavity Material* - Sealant or Putty - (Not Shown) - As an alternate to gypsum joint compound, the gap between the firestop device module and the cutout in the gypsum board may be sealed with fill material on each side of the wall assembly when four- and seven-gang steel wall plates are installed directly against the wood or steel studs.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal Putty

   *Bearing the UL Classification Mark

7 / T4.01 TYPICAL STI EZ-PATH SLEEVE DETAIL

SCALE: N.T.S.

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Houston Texas 77024

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BICSI
Jason Gonzalez Jr
BICSI ID # 364970
EXPIRES 12-31-25
RCDD

09-16-2025

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

TECHNOLOGY TYPICAL DETAILS

SHEET NUMBER

T4.01

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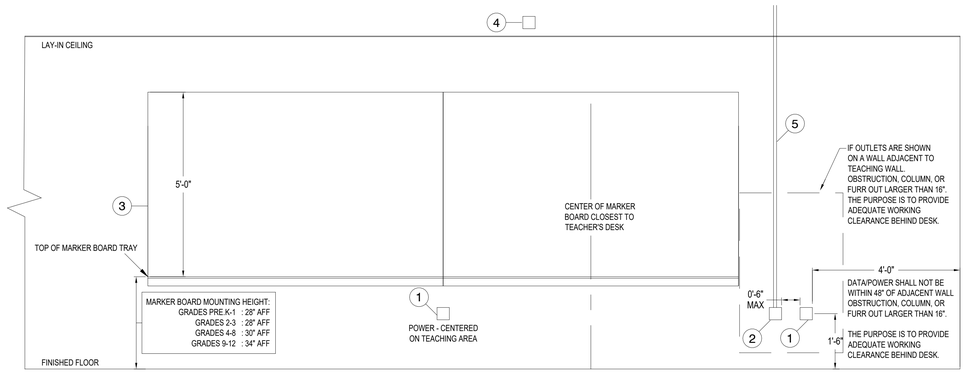
KEYED NOTES:

1. QUAD ELECTRICAL RECEPTACLE.
2. DATA JACK WALL PLATE.
4. MARKER BOARD
6. JUNCTION BOX WITH ELECTRICAL CIRCUIT ACCESSIBLE CEILING FOR FUTURE USE (BY DIV. 26)
7. (1) 1-INCH EMT CONDUITS WITH 200 LB PULL STRINGS AND NYLON BUSHINGS STUBBED OUT ABOVE ACCESSIBLE CEILING . IF OPEN CEILING, STUB OUT TO NEAREST ACCESSIBLE CEILING (BY DIV 26).

GENERAL NOTES:

1. CLASSROOM ORIENTATION CAN BE REVERSED TO MATCH FLOOR-PLAN LAYOUT.
2. BEFORE THE INSTALLATION AND ROUGH-IN OF CONDUITS FOR TECHNOLOGY AND AUDIOVISUAL OUTLETS IN THE TYPICAL CLASSROOM THE CONTRACTOR SHALL MOCK UP ONE CLASSROOM AND ONE LAB WITH RESPECT TO POWER, DATA, AND AUDIOVISUAL BACKBOXES ROUGH-INS FOR APPROVAL BY THE OAC TEAM.



1 / TA4.02 TYPICAL CLASSROOM WALL ELEVATION

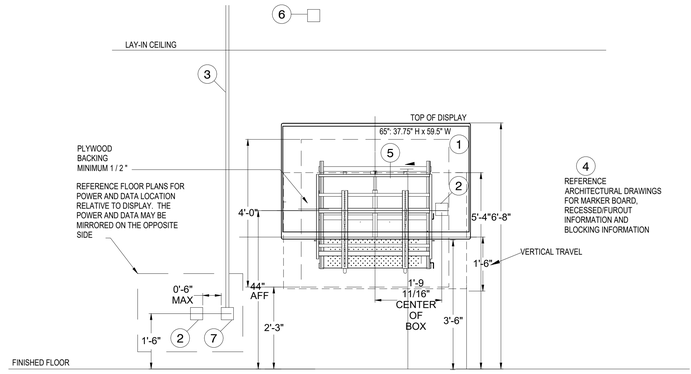
SCALE: N.T.S.

KEYED NOTES:

1. WALL MOUNTED INTERACTIVE DISPLAY , OWNER FURNISHED, OWNER INSTALLED (OFCI)
2. QUAD ELECTRICAL RECEPTACLE.
3. (1) 1-INCH EMT CONDUITS WITH 200 LB PULL STRINGS AND NYLON BUSHINGS STUBBED OUT ABOVE ACCESSIBLE CEILING. IF OPEN CEILING,STUB OUT TO NEAREST ACCESSIBLE CEILING (BY DIV 26).
4. MARKER BOARD - REFERENCE ARCHITECTURAL DRAWINGS FOR MARKER BOARD, RECESSED/FUROUT INFORMATION AND BLOCKING INFORMATION
5. HEIGHT ADJUSTABLE DISPLAY MOUNT , CONTRACTOR FURNISHED CONTRACTOR INSTALLED (OFOI)
6. JUNCTION BOX WITH ELECTRICAL CIRCUIT ABOVE ACCESSIBLE CEILING FOR FUTURE USE (BY DIV. 26)
7. DATA JACK WALL PLATE.

GENERAL NOTES:

1. INTERACTIVE DISPLAY IS OWNER FURNISHED OWNER INSTALLED, HEIGHT ADJUSTABLE MOUNT IS CONTRACTOR FURNISHED CONTRACTOR INSTALLED
2. REFERENCE DISPLAY MOUNT INSTALLATION MANUAL TO CALCULATE PLACEMENT ACHIEVE NOTED DISPLAY HEIGHTS.
3. BEFORE THE INSTALLATION AND ROUGH-IN OF CONDUITS FOR TECHNOLOGY AND AUDIOVISUAL OUTLETS IN THE TYPICAL CLASSROOM. THE CONTRACTOR SHALL MOCK UP ONE CLASSROOM AND ONE LAB WITH RESPECT TO POWER, DATA, AND AUDIOVISUAL BACKBOXES ROUGH-INS FOR APPROVAL BY THE OAC TEAM.



2 / TA4.02 TYPICAL WALL ELEVATION MOUNTED INTERACTIVE DISPLAY CONFERENCE, IPS, PLC, WORKROOM, AND COLLABORATION

SCALE: N.T.S.

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KIRKSEY PROJECT NO. 2023306

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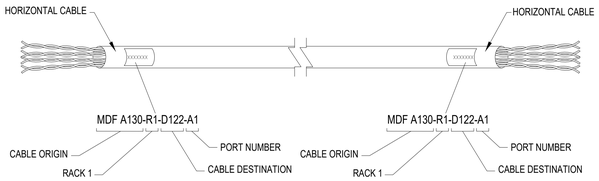
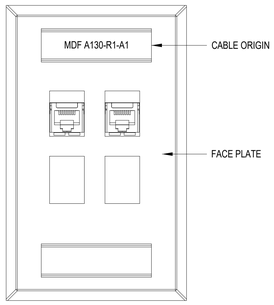
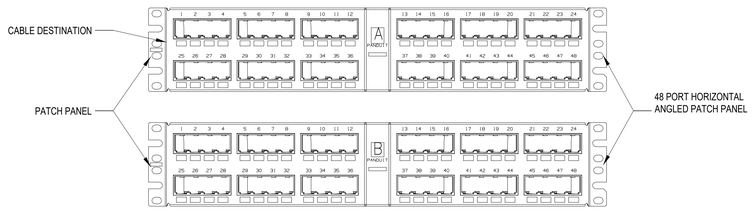
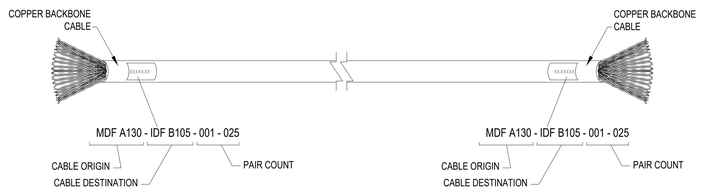


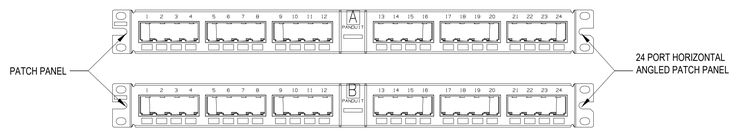




1 T5.00 TYPICAL HORIZONTAL DATA CABLE LABELING SCHEME

SCALE: N.T.S.





3 T5.00 TYPICAL COPPER BACKBONE LABELING SCHEME

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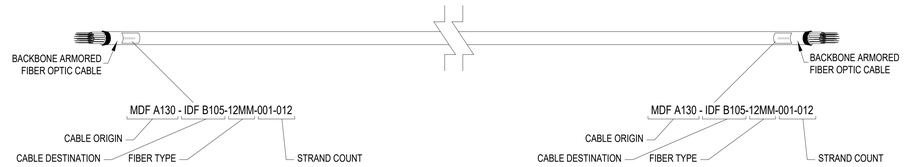
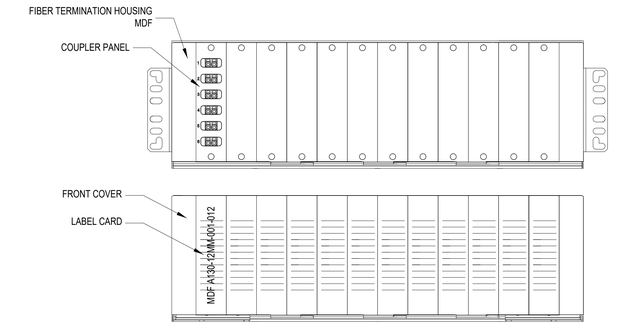
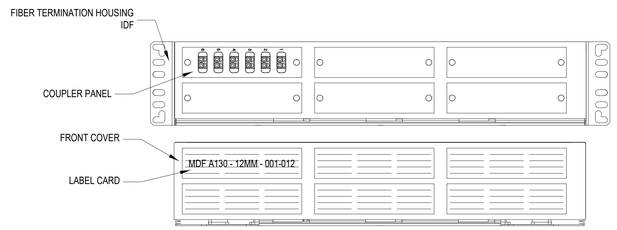
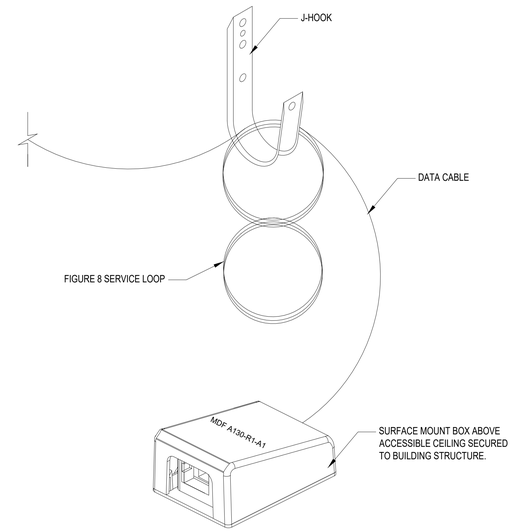






2 T5.00 TYPICAL FIBER BACKBONE LABELING SCHEME

SCALE: N.T.S.



4 T5.00 ABOVE ASSESSIBLE CEILING LABELING SCHEME

SCALE: N.T.S.

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PUBLIC ADDRESS SYMBOLS & LEGEND

PUBLIC ADDRESS SYMBOLS

ACP	AUDIOVISUAL CONTROL PROCESSOR
AMP	SPEAKER AMPLIFIER.
AT#	CEILING-MOUNTED ANTENNA, # = TYPE AS SPECIFIED.
AT#	WALL-MOUNTED ANTENNA, # = TYPE AS SPECIFIED.
C	CEILING-MOUNTED CLOCK.
C	WALL-MOUNTED CLOCK.
C D	DOUBLE-SIDED WALL-MOUNTED CLOCK.
CAM	CEILING-MOUNTED AUDIOVISUAL CAMERA.
CAM	WALL-MOUNTED AUDIOVISUAL CAMERA.
CB	WALL-MOUNTED CALL BUTTON.
CE	CEILING MOUNTED EQUIPMENT ENCLOSURE.
CP#	WALL OR TABLE TOP MOUNTED CONTROL PANEL, # = TYPE AS SPECIFIED.
CT	MOBILE CART.
CTV	CATV LOCATION, CABLE TYPE AND TERMINATION AS SPECIFIED.
DA	DISTRIBUTION AMPLIFIER.
DS	DIGITAL SIGNAGE PLAYER.
DSP	AUDIO DIGITAL SIGNAL PROCESSOR.
EQ#	EQUIPMENT RACK, # = TYPE AS SPECIFIED.
FB#	FLOOR BOX, # = TYPE AS SPECIFIED.
IP	IP ENCODER / DECODER.
L	LECTERN / PODIUM.
MC#	CEILING-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED.
MC#	WALL-MOUNTED OR TABLETOP MOUNTED MICROPHONE, # = TYPE AS SPECIFIED.
MM#	CEILING-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED.
MM#	WALL-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED.
MX#	TABLETOP OR RACK MOUNTED MIXER.
OS	CEILING-MOUNTED OCCUPANCY SENSOR.
OS	WALL-MOUNTED OCCUPANCY SENSOR.
PS	CEILING-MOUNTED PARTITION SENSOR.
P#	PROJECTOR, # = TYPE AS SPECIFIED.
R	WALL-MOUNTED ROUGH-IN LOCATION.
RS	ROOM SCHEDULER.
RX#	AUDIOVISUAL RECEIVER.
S#	CEILING-MOUNTED SPEAKER, # = TYPE AS SPECIFIED.
S#	WALL-MOUNTED SPEAKER, # = TYPE AS SPECIFIED.

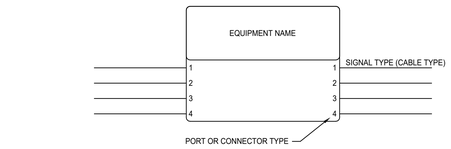
PUBLIC ADDRESS SYMBOLS

SB	SOUND BAR.
SBC	SOUND BAR WITH CAMERA AND MICROPHONE.
TC	TABLETOP CABLE CUBBY.
TX#	AUDIOVISUAL TRANSMITTER.
VC	WALL-MOUNTED VOLUME CONTROL.
VCC	VIDEO CONFERENCING COMPUTER.
WB#	AUDIOVISUAL WALL BOX, # = TYPE AS SPECIFICED
FP#	FLAT PANEL DISPAY, # = TYPE AS SPECIFIED.
IFP#	INTERACTIVE FLAT PANEL, # = TYPE AS SPECIFIED.
SCR#	PROJECTION SCREEN, # = TYPE AS SPECIFIED.
VW#	VIDEO WALL, # = TYPE AS SPECIFIED.
	DEVICE CONDUIT BELOW FLOOR.
	DEVICE CONDUIT ABOVE CEILING.

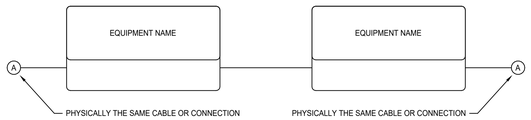
GENERAL SYMBOLS

# SHEET DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
1 TA-302	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION.

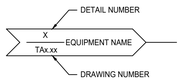
PUBLIC ADDRESS SIGNAL FLOW SYMBOLS



EQUIPMENT BLOCK



ON-PAGE EQUIPMENT LEADER



OFF-PAGE EQUIPMENT LEADER

DATA DROP

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
BYOD	BRING YOUR OWN DEVICE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PAINTERCOM HEAD-END
IMC	INTERMEDIATE METAL CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF AUDIOVISUAL DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. AUDIOVISUAL DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5. IN THE EVENT OF A DISCREPANCY BETWEEN THE AUDIOVISUAL DRAWINGS AND SPECIFICATIONS THE GREATER QUANTITY AND COST SHALL BE UTLIZED.
6. CONFIRM MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. THE CENTERLINE OF DEVICE INSTALL LOCATIONS ARE FOR REFERENCE AND DESIGN INTENT. CONFIRM WITH ARCHITECT, OWNER, AND FIELD CONDITIONS.
8. ALL DISPLAYS OR WALL MOUNTED DEVICES SHALL BE WITHIN ADA REQUIREMENTS. CONTRACTOR SHALL IDENTIFY ANY NON-COMPLIANT DEVICES AND BRING TO THE ATTENTION OF THE ARCHITECT AND CONSULTANT.

INDEX OF DRAWINGS

TPA0.00	PUBLIC ADDRESS SYMBOLS & LEGEND
XTPAD2.11	PUBLIC ADDRESS LEVEL 1 DEMO FLOOR PLAN
XTPAD2.12	PUBLIC ADDRESS LEVEL 2 DEMO FLOOR PLAN
TPA2.21	PUBLIC ADDRESS LEVEL 1 - COMPOSITE FLOOR PLAN
XTPA2.22	PUBLIC ADDRESS LEVEL 2 - COMPOSITE FLOOR PLAN
XTPA2.23	PUBLIC ADDRESS ROOF PLAN
TPA2.31	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B1
TPA2.32	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B2
TPA2.33	PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B3
TPA4.00	PUBLIC ADDRESS TYPICAL DETAILS

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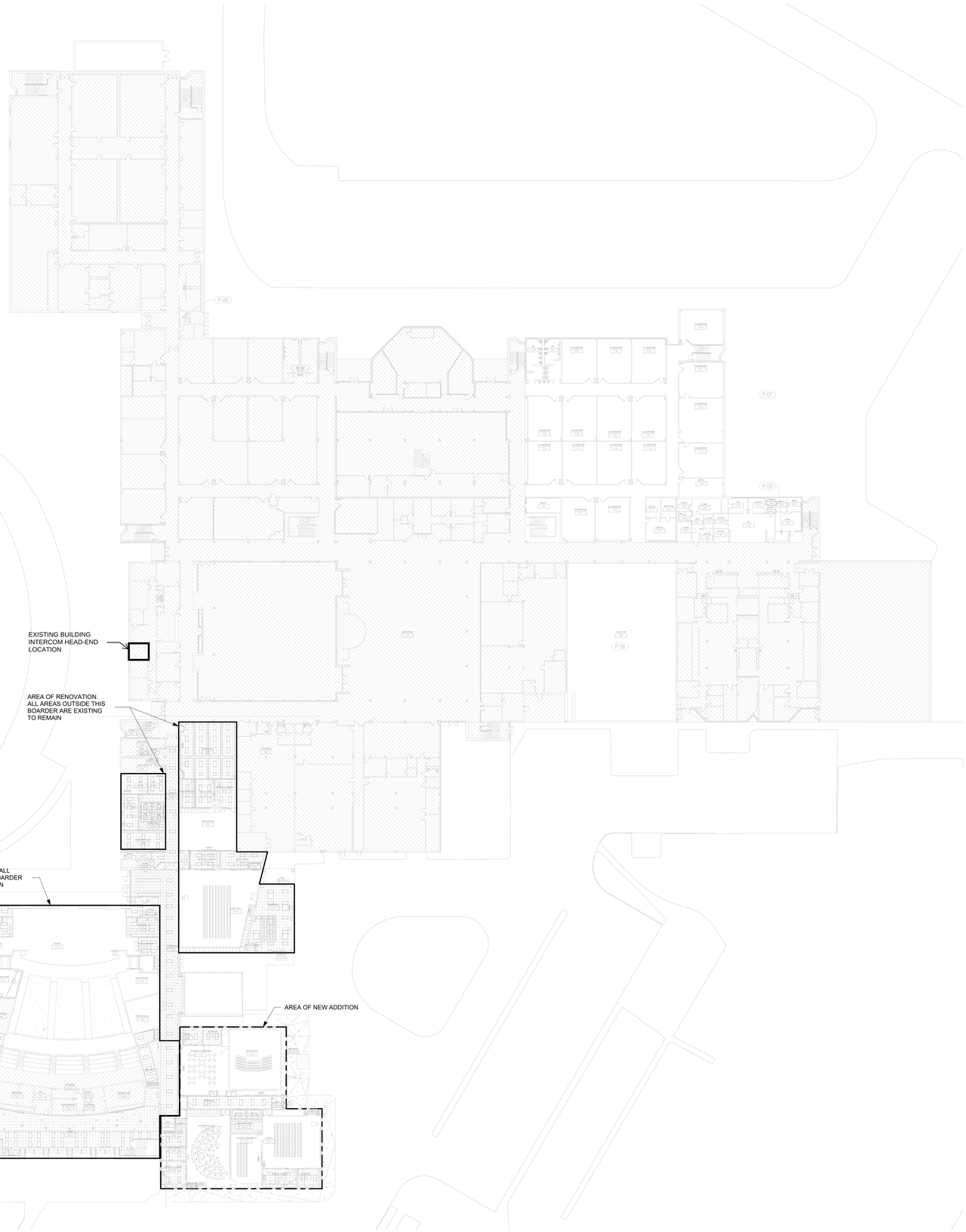

1 TPA2.21 PUBLIC ADDRESS LEVEL 1 - COMPOSITE FLOOR PLAN
1/32" = 1'-0"

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1 TPA2.31 PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B1
1/8" = 1'-0"

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Jason Gonzalez Jr
BICSI ID # 364970
EXPIRES 12-31-25
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C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

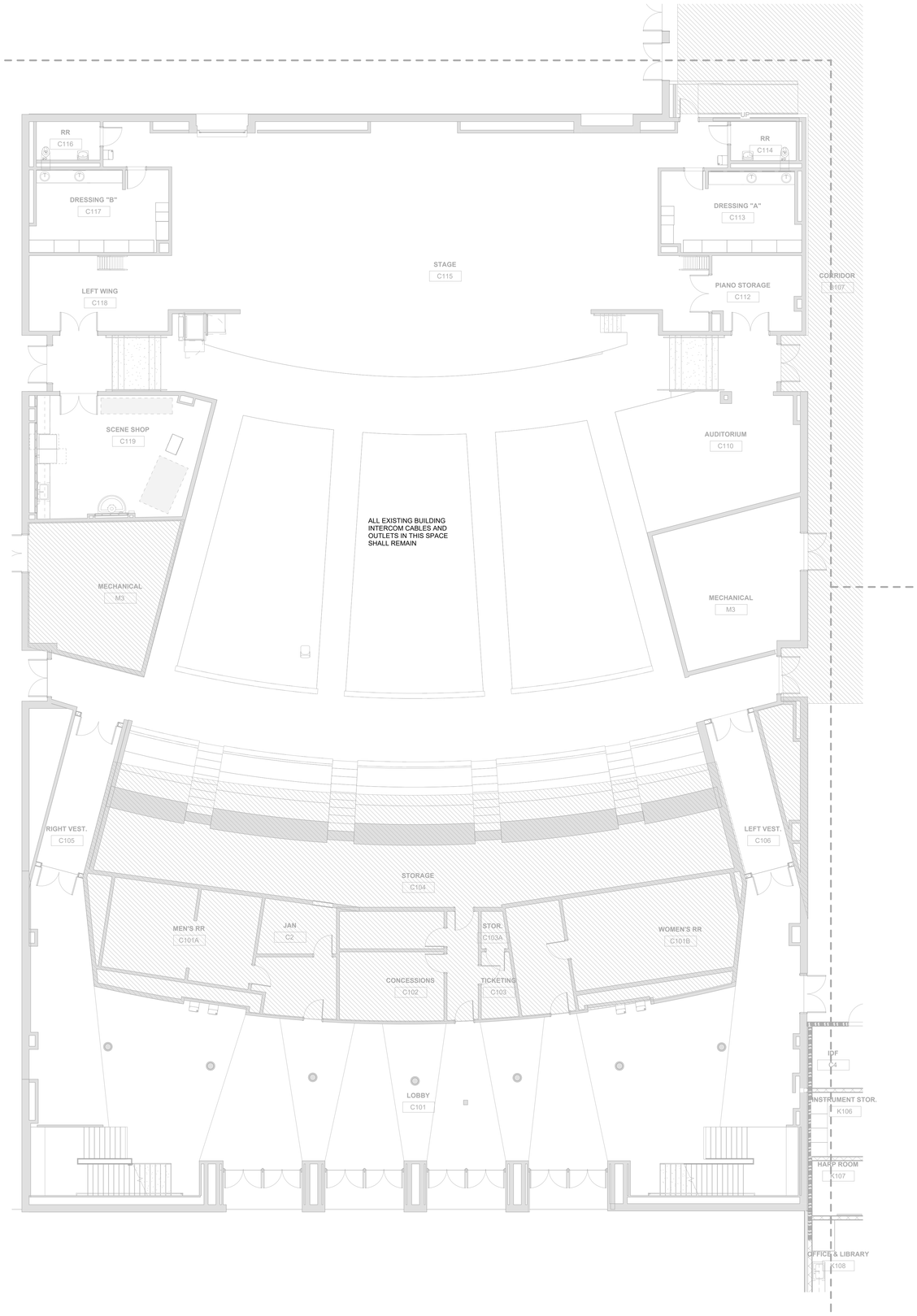
PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B1

SHEET NUMBER
TPA2.31



1 TPA2.32 PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B2
1/8" = 1'-0"

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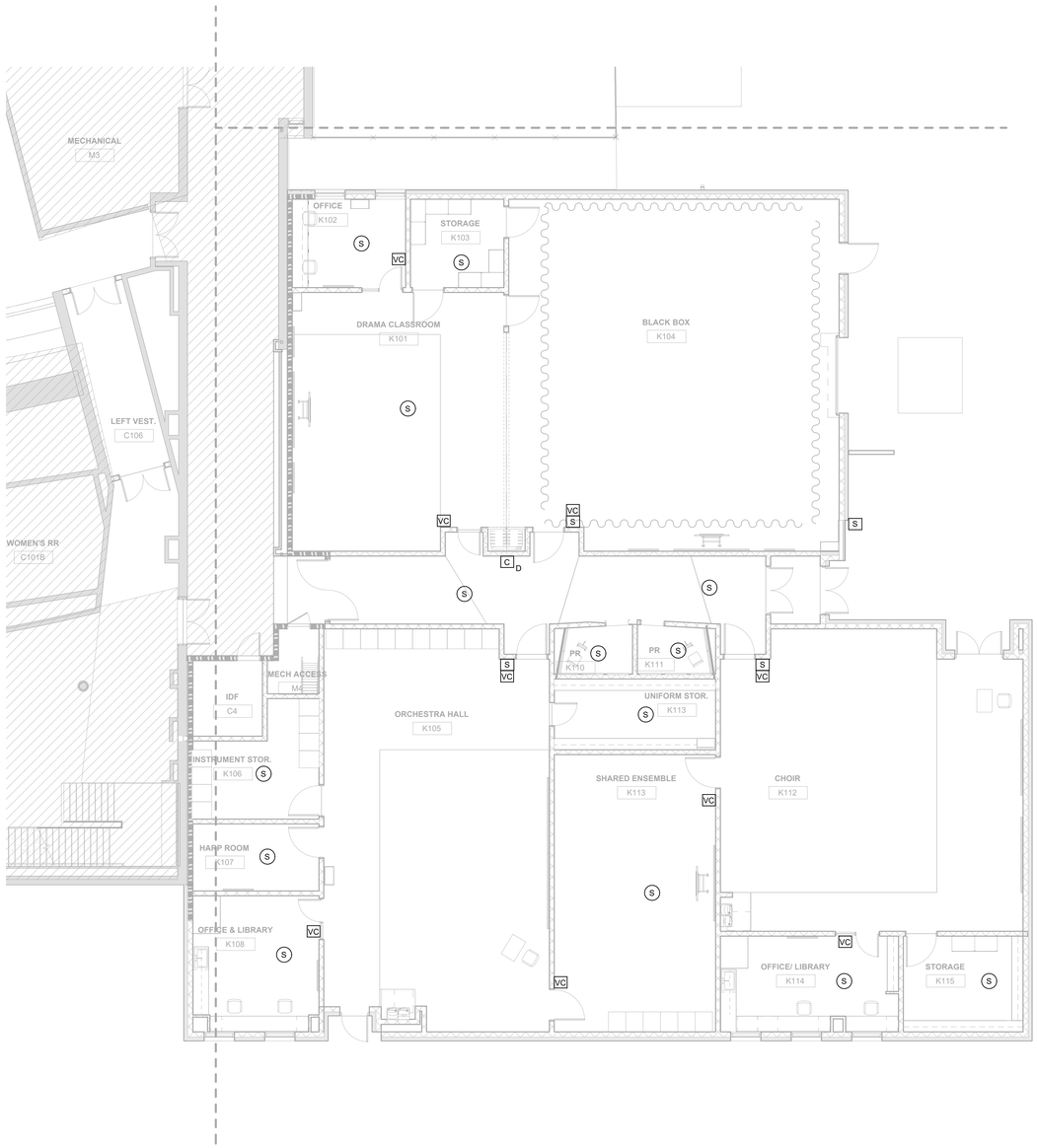
SHEET NUMBER
TPA2.32



1 PUBLIC ADDRESS LEVEL 1 - FLOOR PLAN - AREA B3
TPA2.33 1/8" = 1'-0"

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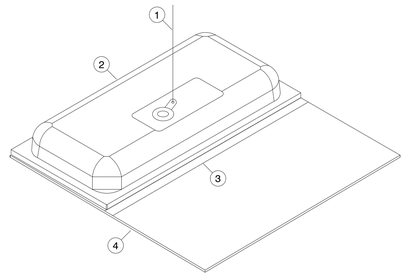
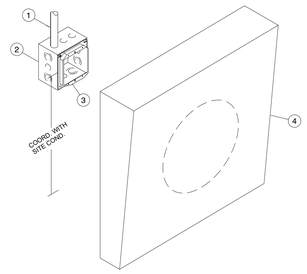


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER/MODEL NUMBER AS SPECIFIED (BY DIV 27).
3. T-RAIL CROSSPIECE (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

1 / TPA4.00 TYPICAL LAY-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

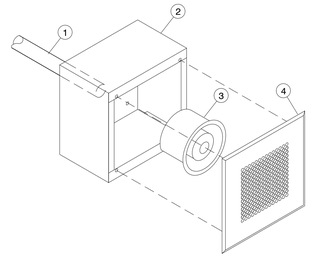


KEYED NOTES:

1. 1" EMT CONDUIT FROM DOUBLE-GANG BOX / ACCESSIBLE CEILING TO NEXT DOUBLE-GANG BOX IN SPEAKER CHAIN (BY DIV 16).
2. 4-11/16" X 4-11/16" X 2-1/8" SURFACE-MOUNTED DOUBLE-GANG BOX (BY DIV 16).
3. DOUBLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. SURFACE-MOUNTED INDOOR LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, DETAILS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION. (BY DIV 17).

2 / TPA4.00 TYPICAL INDOOR SURFACE-MOUNTED LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

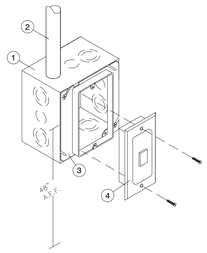


KEYED NOTES:

1. 3/4-INCH EMT CONDUIT TO ABOVE ACCESSIBLE CEILING (BY DIV 26).
2. BACK BOX/HOUSING FOR LOUDSPEAKER - RECESSED OR SURFACE MOUNT. MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).
3. LOUDSPEAKER - MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).
4. VANDAL-RESISTANT GRILLE - MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).

3 / TPA4.00 TYPICAL OUTDOOR LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

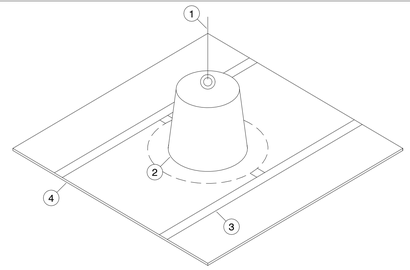


KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. CALL SWITCH - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

4 / TPA4.00 TYPICAL WALL MOUNTED CALL SWITCH DETAIL

SCALE: N.T.S.

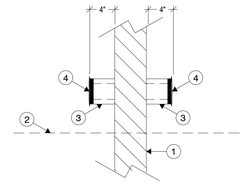


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED (BY DIV 27). COORDINATE FINISH WITH ARCHITECT.
3. TILE BRIDGE/SUPPORT HARDWARE - MANUFACTURER/MODEL NUMBER AS SPECIFIED/REQUIRED (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

5 / TPA4.00 TYPICAL CUT-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

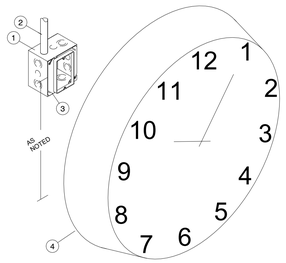


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. CONDUIT SLEEVE (BY DIV 26).
4. NYLON BUSHING (BY DIV 26).

6 / TPA4.00 TYPICAL CONDUIT SLEEVE GOING THROUGH WALL

SCALE: N.T.S.



KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. ANALOG CLOCK - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

7 / TPA4.00 TYPICAL WALL-MOUNTED ANALOG CLOCK DETAIL

SCALE: N.T.S.

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PUBLIC ADDRESS TYPICAL DETAILS

SHEET NUMBER

TPA4.00

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SECURITY SYMBOLS & LEGEND

ACCESS CONTROL SYMBOLS

AD	INTERFACE TO AUTOMATIC DOOR CONTROL AND MONITORING.
BI	INTERFACE TO RETRACTABLE VEHICLE BOLLARD.
BR	BIOMETRIC READER.
CH	DOOR BELL CHIME.
CR	CARD READER.
CR1	CARD READER MULLION MOUNT.
CR2	ELEVATOR CARD READER.
CR3	CARD READER/INTERCOM UNIT.
CR4	CARD READER/INTERCOM PEDESTRIAN PEDESTAL.
D	DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE OR COUNTER PROVIDE ARMORED CABLE FROM DURESS BUTTON TO JUNCTION BOX.
D	WALL MOUNTED DURESS BUTTON.
DB	DOOR BELL.
DC	DOOR CONTACT.
DC1	OVERHEAD DOOR CONTACT. PROVIDE ARMORED CABLE FROM SWITCH TO JUNCTION BOX.
DMA	DOOR MANAGEMENT ANNUNCIATOR.
DR	SINGLE DOOR RELEASE PUSHBUTTON UNDER COUNTER. ARMORED CABLE FROM PUSHBUTTON TO JUNCTION BOX.
EL	INTERFACE TO ELEVATOR CONTROL/MONITORING.
FA	INTERFACE TO FIRE ALARM SYSTEM.
GC	INTERFACE TO PARKING GATE CONTROL/MONITORING.
IC	AUDIO INTERCOM SUBSTATION.
IM	INTERCOM MASTER STATION AS INDICATED BLOCK DIAGRAM AND/OR DETAILS.
KS	KEYSWITCH.
LD	LOCKDOWN BUTTON UNDER COUNTER. ARMORED CABLE FROM LOCKDOWN BUTTON TO JUNCTION BOX.
LD	LOCKDOWN BUTTON.
OD	INTERFACE TO OVERHEAD DOOR CONTROL/MONITORING.
RD	INTERFACE TO MOTORIZED REVOLVING DOOR CONTROL/MONITORING.
REX	REQUEST-TO-EXIT IS INTEGRAL WITH ELECTRIFIED LOCKING HARDWARE. PROVIDED AND INSTALLED BY OTHERS.
RX	REQUEST-TO-EXIT MOTION SENSOR MOUNTED CEILING-MOUNTED.
RX	REQUEST-TO-EXIT MOTION SENSOR DOOR FRAME-MOUNTED.
SD	INTERFACE TO SLIDING DOOR CONTROL/MONITORING.
SR	SECURITY SYSTEM RISER, DATA GATHERING PANEL AND LOW VOLTAGE POWER SUPPLY DISTRIBUTION LOCATION.
VI	VIDEO INTERCOM SUBSTATION.
VM	DESKTOP VIDEO INTERCOM MASTER STATION.
WD	WIRELESS DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE, OR COUNTER.

ACCESS CONTROL SYMBOLS

WDRR	WIRELESS DOOR RELEASE RECEIVER DEVICE.
WDRT	WIRELESS DOOR RELEASE TRANSMITTER DEVICE.
WR	WIRELESS DURESS BUTTON RECEIVER DEVICE.
WT	WIRELESS DURESS BUTTON TRANSMITTER DEVICE.
	PRE-WIRE AND BLANK COVER PLATE FOR FUTURE DEVICE.

ELECTRONIC SURVEILLANCE SYMBOLS

	FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
PTZ	PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
PTZ CLG	CEILING-MOUNTED PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

INTRUSION DETECTION SYMBOLS

AL	ALARM ANNUNCIATOR LIGHT.
AP	ANNUNCIATOR PANEL AS INDICATED IN BLOCK DIAGRAMS AND/OR DETAILS.
AV	AUDIO VISUAL ANNUNCIATOR.
FA	INTERFACE TO FREEZER/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
FC	FUTURE CABLE AS SPECIFIED.
GB	CEILING-MOUNTED GLASS BREAK SENSOR.
GB	GLASS BREAK SENSOR.
KP	PERSONAL IDENTIFICATION NUMBER KEYPAD.
M	SOUND DETECTION MICROPHONE.
MD	360° MOTION DETECTOR MOUNTED TO CEILING.
MD	MOTION DETECTOR.
MD LR	LONG RANGE MOTION DETECTOR.
RA	INTERFACE TO REFRIGERATOR/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
ST	STROBE LIGHT SURFACE MOUNTED TO CEILING.
ST	STROBE LIGHT.
V	VIBRATION DETECTOR.

MISCELLANEOUS SECURITY SYMBOLS

B	ALERTUS BEACON MOUNTED AT 60" A.F.F. UNLESS OTHERWISE NOTED
EP	EMERGENCY PHONE.
LS	FLOOR MOUNTED LIQUID SENSOR. PROVIDE ARMORED CABLE FROM SENSOR TO JUNCTION BOX.
S	INTERCOM SPEAKER FLUSH MOUNTED IN CEILING.
	ALERTUS LED MARQUEE (SINGLE SIDED)
	ALERTUS LED MARQUEE (DOUBLE SIDED)

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
B	BURIED
CAT 3/5	CATEGORY 3/5
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF SECURITY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. SECURITY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5. ANY REFERENCE TO OR INDICATION OF DOOR HARDWARE IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH THE DIVISION 8 ENGINEER/CONSULTANT FOR DOOR HARDWARE CLARIFICATION OR INFORMATION (BY DIV. 8).

INDEX OF DRAWINGS

TS0.00	SECURITY SYMBOLS & LEGEND
TS1.20	SECURITY SITE PLAN
TS2.21	SECURITY LEVEL 1 - COMPOSITE FLOOR PLAN
TS2.31	SECURITY LEVEL 1 - FLOOR PLAN - AREA B1
TS2.32	SECURITY LEVEL 1 - FLOOR PLAN - AREA B2
TS2.33	SECURITY LEVEL 1 - FLOOR PLAN - AREA B3
TS4.00	SECURITY TYPICAL DETAILS
TS4.01	SECURITY TYPICAL DETAILS
TS5.00	SECURITY SCHEDULES

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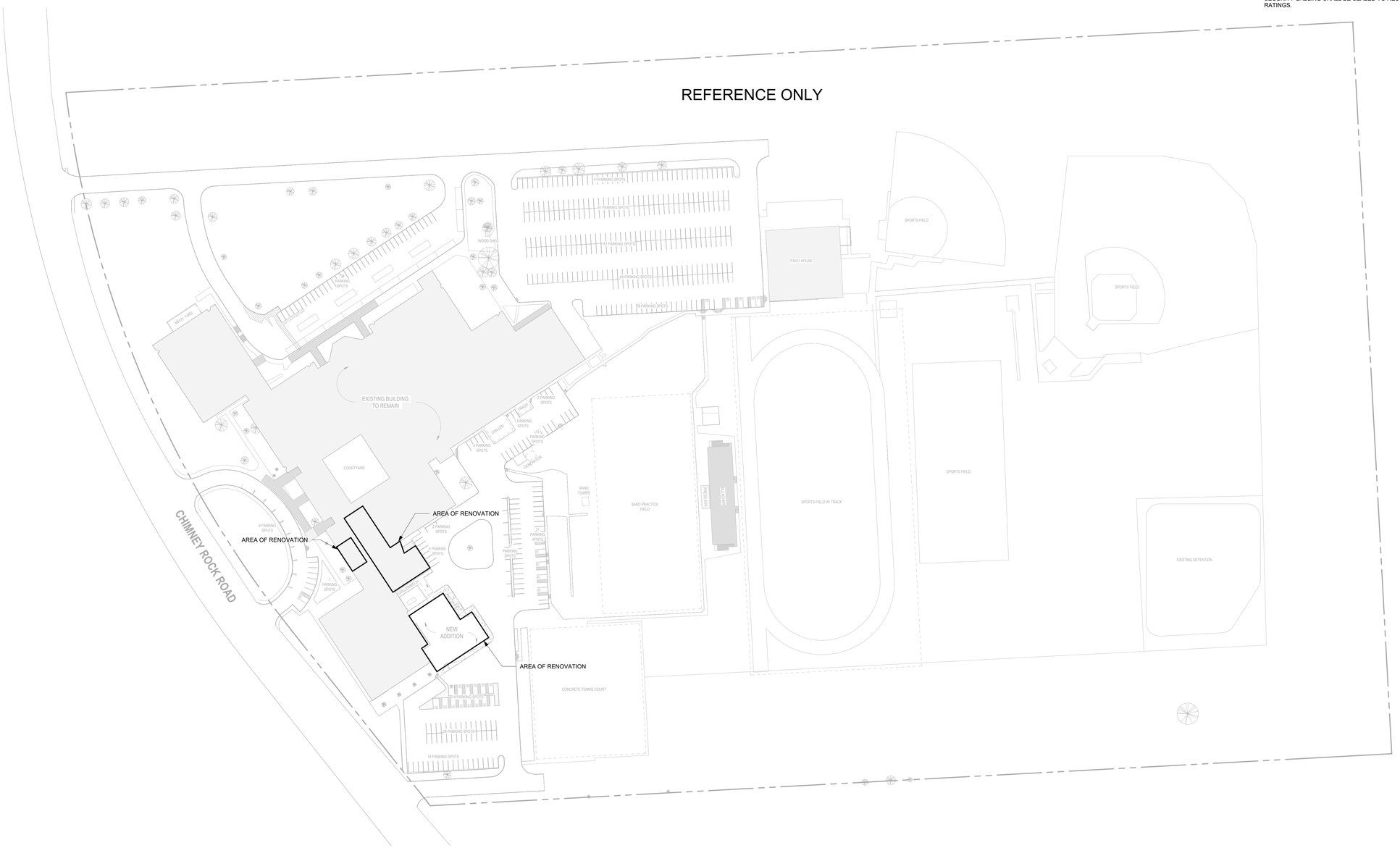
SECURITY SITE PLAN GENERAL NOTES:

14. PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO REDUCE ACOUSTIC TRANSMISSION BETWEEN SPACES.
15. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED TO PREVENT WATER INTRUSION INTO INTERIOR OR CONDITIONED SPACES.
16. CONTRACTOR SHALL RESTORE ALL SURFACES (E.G., WALLS, PAVEMENT, LANDSCAPING) AFFECTED BY SECURITY INSTALLATION TO ORIGINAL OR BETTER CONDITION.
17. COORDINATE CAMERA MOUNTING HEIGHTS ON LIGHT POLES (BY DIVISION 26), INCLUDING HANDHOLE ORIENTATION AND POWER/CABLING ACCESS.
18. ALL SECURITY DEVICE LOCATIONS SHOWN ARE DIAGRAMMATIC AND NOT TO SCALE. FINAL PLACEMENT SHALL BE COORDINATED WITH THE ARCHITECT OR SECURITY DESIGN CONSULTANT PRIOR TO ROUGH-IN.
19. COORDINATE ALL EXTERIOR CAMERA LOCATIONS WITH LANDSCAPING AND ADJACENT BUILDING ELEMENTS. ENSURE CLEAR FIELDS OF VIEW FREE FROM OBSTRUCTIONS SUCH AS TREES, DOWNSPOUTS, OR SIGNAGE.
20. DEVICE HEIGHTS, ESPECIALLY FOR ACCESS CONTROL AND INTERCOMS, SHALL MEET ADA ACCESSIBILITY REQUIREMENTS AND APPLICABLE LOCAL/STATE CODES.
21. VERIFY EXACT MOUNTING CONDITIONS IN THE FIELD AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS WITH STRUCTURE, FINISHES, OR UTILITIES.
22. ALL INSTALLED SYSTEMS AND COMPONENTS SHALL BE TESTED FOR FULL FUNCTIONALITY, INTEGRATION, AND COMPLIANCE WITH SPECIFICATIONS PRIOR TO FINAL TURNOVER.
23. CONTRACTOR SHALL COORDINATE FINAL TERMINATIONS, PROGRAMMING, AND SYSTEM COMMISSIONING WITH THE SECURITY VENDOR OR INTEGRATOR. SYSTEM FUNCTIONALITY SHALL BE DEMONSTRATED AND ACCEPTED BY THE OWNER PER WRITTEN SPECIFICATIONS.
24. CONTRACTOR SHALL REFER TO T-SERIES TECHNOLOGY OR STRUCTURED CABLING DRAWINGS FOR DEVICE DATA NETWORK CABLING, RISER INFORMATION, AND ADDITIONAL SYSTEM-SPECIFIC REQUIREMENTS.
25. CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS, SHOP DRAWINGS, AND DEVICE CUT SHEETS FOR ALL SECURITY EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
26. UPON COMPLETION, PROVIDE RECORD DRAWINGS (AS-BUILTS), INCLUDING CONDUIT ROUTING, DEVICE LOCATIONS, CABLE IDS, AND PANEL TERMINATIONS. LABEL ALL DEVICES IN THE FIELD TO MATCH RECORD DOCUMENTS.
27. CONTRACTOR SHALL NOTIFY THE SECURITY CONSULTANT AND/OR ARCHITECT OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS PRIOR TO INSTALLATION. UNAUTHORIZED SUBSTITUTIONS OR RELOCATIONS MAY BE SUBJECT TO REMOVAL AND CORRECTION AT THE CONTRACTOR'S EXPENSE.

SECURITY SITE PLAN GENERAL NOTES:

1. ALL SECURITY INSTALLATIONS SHALL COMPLY WITH LOCAL JURISDICTIONAL CODES, INCLUDING PERMITTING REQUIREMENTS FOR LOW-VOLTAGE, CCTV, AND ACCESS CONTROL SYSTEMS WHERE APPLICABLE. CONTRACTOR SHALL CONFIRM ALL PERMITTING NEEDS PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BOXES, CONDUIT, CABLING, SUPPORTS, TERMINATIONS, AND ACCESSORIES FOR A FULLY FUNCTIONAL AND CODE-COMPLIANT SECURITY SYSTEM, REGARDLESS OF WHETHER EACH ITEM IS SHOWN.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, SLEEVES, AND ASSOCIATED INFRASTRUCTURE SHOWN ON SECURITY DRAWINGS SHALL BE INSTALLED BY DIVISION 26 (ELECTRICAL).
4. ALL POWER TO SECURITY DEVICES, PANELS, AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 26 (ELECTRICAL) UNLESS OTHERWISE NOTED.
5. SECURITY DATA NETWORK CABLING, FIBER CONNECTIVITY, AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 (COMMUNICATIONS). REFER TO T-SERIES DRAWINGS FOR ROUTING AND REQUIREMENTS.
6. ELECTRIFIED DOOR HARDWARE INDICATED ON SECURITY DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 8. REFER TO HARDWARE SCHEDULES FOR MODEL TYPES, POWER TRANSFER DEVICES, AND CONTROL INTERFACE REQUIREMENTS.
7. VEHICLE GATE EQUIPMENT AND OPERATORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 11. COORDINATE ALL SECURITY-RELATED RELAY CABLING AND TERMINATIONS IN THE FIELD.
8. WHERE SYSTEMS INTERFACE WITH EMERGENCY SERVICES (E.G., GATES, EGRESS HARDWARE, OR INTERCOMS), COORDINATION WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) IS REQUIRED PRIOR TO COMMISSIONING.
9. WHERE INTEGRATION WITH BUILDING SYSTEMS IS REQUIRED (E.G., BMS, ELEVATOR RECALL, INTERCOM, OR FIRE ALARM), COORDINATION SHALL BE PERFORMED WITH THE RESPECTIVE SYSTEM VENDORS PRIOR TO ROUGH-IN.
10. SECURITY EQUIPMENT SHALL BE POWERED FROM DEDICATED CIRCUITS UNLESS OTHERWISE NOTED. COORDINATE PANEL LOCATIONS, BREAKER REQUIREMENTS, AND UPS BACKUP (IF REQUIRED) WITH DIVISION 26.
11. ALL SECURITY SYSTEM COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER MANUFACTURER REQUIREMENTS AND APPLICABLE ELECTRICAL CODES.
12. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTES WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS PRIOR TO INSTALLATION OR TRENCHING.
13. ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR STRUCTURES FOR SECURITY CABLING SHALL BE SEALED TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS.

REFERENCE ONLY



1 TS1.20 SECURITY SITE PLAN
1" = 80'-0"

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Kirksey ARCHITECTURE

Houston + Austin + Dallas

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Houston Texas 77024

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Jason Gonzalez Jr
BICSI ID # 364970
EXPIRES 12-31-25
RCDD

09-16-2025

	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

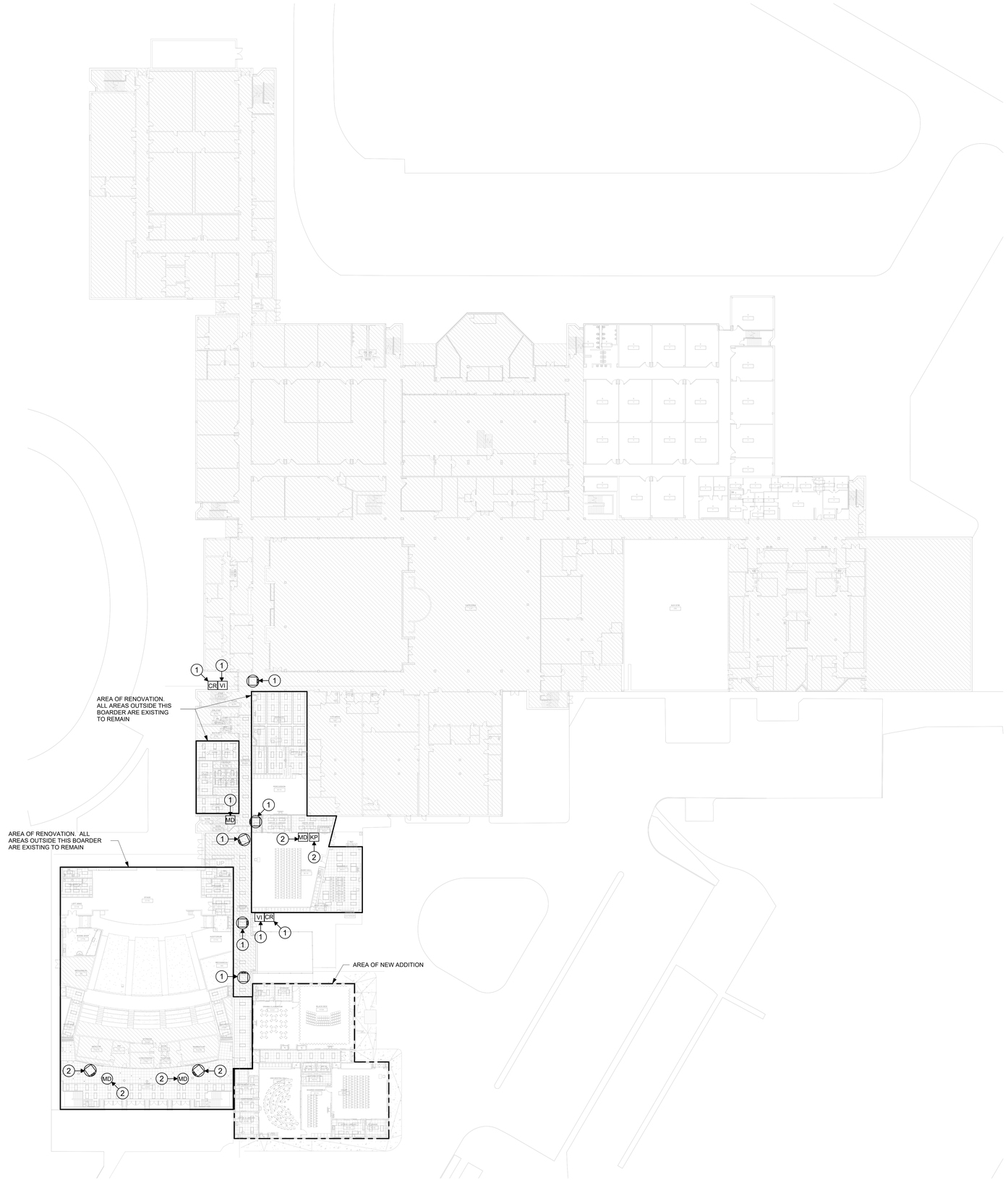
KEY PLAN

SHEET TITLE

SECURITY SITE PLAN

SHEET NUMBER

TS1.20



1 TS2.21 SECURITY LEVEL 1 - COMPOSITE FLOOR PLAN
1/32" = 1'-0"

SECURITY FLOOR PLANS GENERAL NOTES:

1. ALL SECURITY INSTALLATIONS SHALL COMPLY WITH LOCAL CODES AND PERMITTING REQUIREMENTS FOR LOW-VOLTAGE, CCTV, AND ACCESS CONTROL SYSTEMS. CONTRACTOR SHALL VERIFY AND OBTAIN ALL REQUIRED PERMITS PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED BOXES, CONDUIT, CABLING, SUPPORTS, TERMINATIONS, AND ACCESSORIES FOR A COMPLETE AND CODE-COMPLIANT SECURITY SYSTEM, WHETHER OR NOT EACH ITEM IS SPECIFICALLY SHOWN.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, SLEEVES, AND ASSOCIATED INFRASTRUCTURE SHOWN ON SECURITY DRAWINGS SHALL BE INSTALLED BY DIVISION 26 (ELECTRICAL).
4. ALL POWER TO SECURITY DEVICES, PANELS, AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 26 (ELECTRICAL) UNLESS OTHERWISE NOTED.
5. SECURITY DATA NETWORK CABLING, FIBER CONNECTIVITY, AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 (COMMUNICATIONS). REFER TO T-SERIES DRAWINGS FOR ROUTING AND REQUIREMENTS.
6. ELECTRIFIED DOOR HARDWARE INDICATED ON SECURITY DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 8. REFER TO DOOR HARDWARE SCHEDULES FOR MODEL TYPES, POWER TRANSFER DEVICES, AND CONTROL INTERFACE REQUIREMENTS.
7. VEHICLE GATE EQUIPMENT AND OPERATORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 11. COORDINATE ALL SECURITY-RELATED RELAY CABLING AND TERMINATIONS IN THE FIELD.
8. ELEVATOR SECURITY INTERFACES, INCLUDING CARD READER FLOOR ACCESS, HALL CALL CONTROL, AND CAMERAS, SHALL BE COORDINATED WITH THE ELEVATOR VENDOR. TRAVEL CABLES AND ASSOCIATED TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY THE ELEVATOR CONTRACTOR. REFER TO ELEVATOR SHOP DRAWINGS AND SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
9. WHERE SYSTEMS INTERFACE WITH EMERGENCY SERVICES (E.G., GATES, EGRESS HARDWARE, OR INTERCOMS), COORDINATION WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) IS REQUIRED PRIOR TO COMMISSIONING.
10. WHERE INTEGRATION WITH BUILDING SYSTEMS IS REQUIRED (E.G., BMS, ELEVATOR RECALL, INTERCOM, OR FIRE ALARM), COORDINATION SHALL BE PERFORMED WITH THE RESPECTIVE SYSTEM VENDORS PRIOR TO ROUGH-IN.
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12. ALL SECURITY SYSTEM COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER MANUFACTURER REQUIREMENTS AND APPLICABLE ELECTRICAL CODES.
13. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTES WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS PRIOR TO INSTALLATION OR TRENCHING.
14. ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR STRUCTURES FOR SECURITY CABLING SHALL BE SEALED TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS.
15. PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO REDUCE ACOUSTIC TRANSMISSION BETWEEN SPACES.
16. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED TO PREVENT WATER INTRUSION INTO INTERIOR OR CONDITIONED SPACES.
17. CONTRACTOR SHALL RESTORE ALL SURFACES (E.G., WALLS, PAVEMENT, LANDSCAPING) AFFECTED BY SECURITY INSTALLATION TO ORIGINAL OR BETTER CONDITION.
18. ALL SECURITY DEVICE LOCATIONS SHOWN ARE DIAGRAMMATIC AND NOT TO SCALE. FINAL PLACEMENT SHALL BE COORDINATED WITH THE ARCHITECT OR SECURITY DESIGN CONSULTANT PRIOR TO ROUGH-IN.
19. COORDINATE ALL EXTERIOR CAMERA LOCATIONS WITH LANDSCAPING AND ADJACENT BUILDING ELEMENTS. ENSURE CLEAR FIELDS OF VIEW FREE FROM OBSTRUCTIONS SUCH AS TREES, DOWNSPOUTS, OR SIGNAGE.
20. DEVICE MOUNTING HEIGHTS, INCLUDING ACCESS CONTROL AND INTERCOMS, SHALL COMPLY WITH ADA ACCESSIBILITY STANDARDS AND APPLICABLE LOCAL AND STATE CODES.
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27. CONTRACTOR SHALL NOTIFY THE SECURITY CONSULTANT AND/OR ARCHITECT OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS PRIOR TO INSTALLATION. UNAUTHORIZED SUBSTITUTIONS OR RELOCATIONS MAY BE SUBJECT TO REMOVAL AND CORRECTION AT THE CONTRACTOR 'S EXPENSE.

SECURITY FLOOR PLANS KEYED NOTES:

(1) APPROXIMATE LOCATION OF EXISTING SECURITY DEVICE(S) OUTSIDE THE AREA OF CONSTRUCTION. THIS DEVICE SHALL REMAIN ACTIVE AND FULLY OPERATIONAL THROUGHOUT THE DURATION OF THIS PROJECT.

(2) APPROXIMATE LOCATION OF EXISTING SECURITY DEVICE(S) AFFECTED BY CONSTRUCTION. THIS DEVICE AND ASSOCIATED MOUNTS SHALL BE REMOVED BY SECURITY CONTRACTOR AND RETURNED TO THE OWNER OR REPURPOSED IF REQUIRED. ALL ASSOCIATED SECURITY CABLING SHALL BE DEMOLISHED BY THE SECURITY CONTRACTOR AND PROPERLY DISPOSED OF AS REQUIRED BY LOCAL LAWS AND AHJ.

Kirksey ARCHITECTURE
Houston + Austin + Dallas
6909 Portwest Drive
Houston Texas 77024
713 850 9600
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Jason Gonzalez Jr
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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SECURITY LEVEL 1 - COMPOSITE FLOOR PLAN

SHEET NUMBER
TS2.21

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1 SECURITY LEVEL 1 - FLOOR PLAN - AREA B1
TS2.31 1/8" = 1'-0"

SECURITY FLOOR PLANS GENERAL NOTES:

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Jason Gonzalez Jr
BICSI ID # 364970
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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SECURITY LEVEL 1 - FLOOR PLAN - AREA B1

SHEET NUMBER

TS2.31

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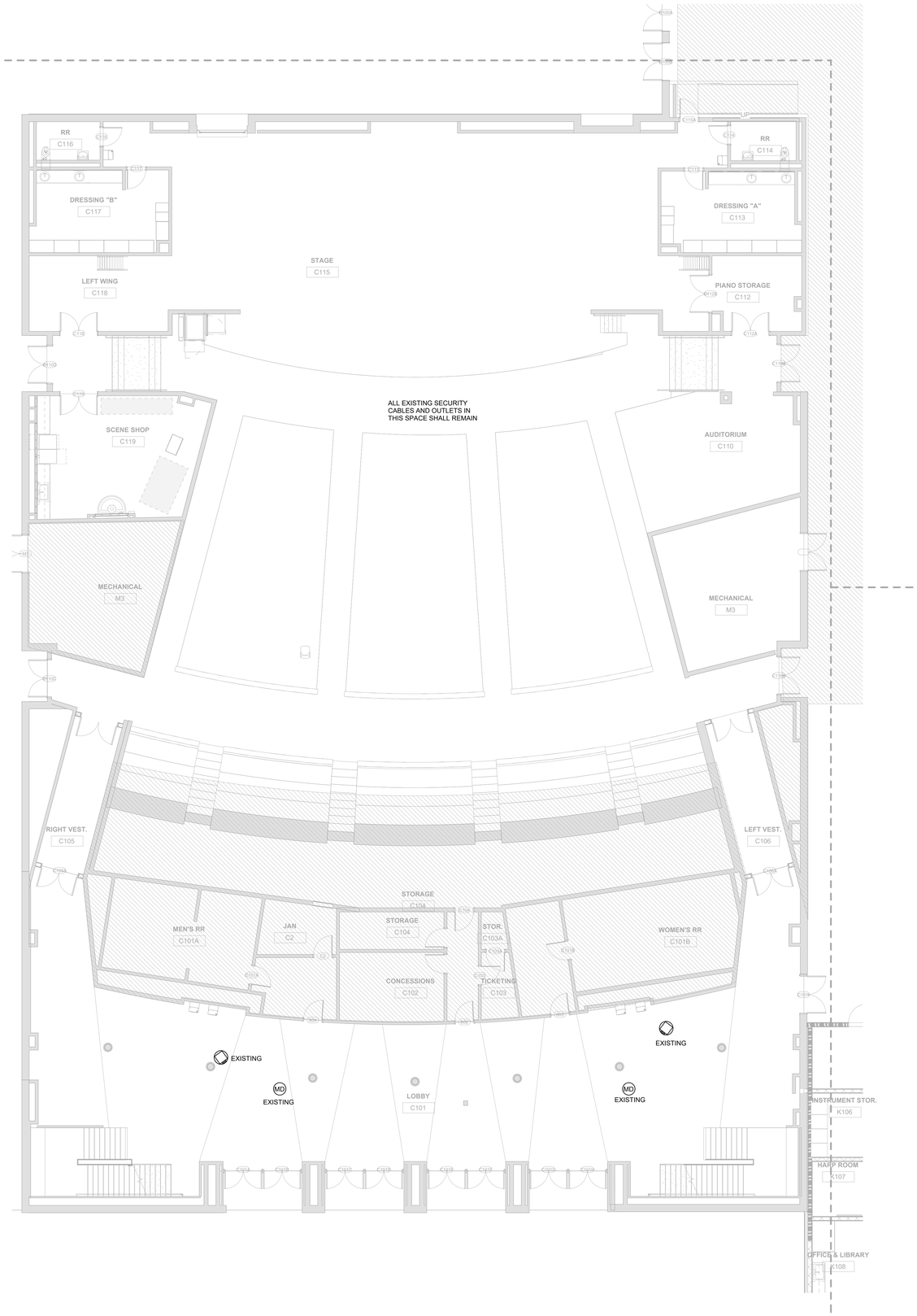

1 TS2.32 SECURITY LEVEL 1 - FLOOR PLAN - AREA B2
1/8" = 1'-0"

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24. CONTRACTOR SHALL REFER TO T-SERIES TECHNOLOGY OR STRUCTURED CABLING DRAWINGS FOR DEVICE DATA NETWORK CABLING, RISER INFORMATION, AND ADDITIONAL SYSTEM-SPECIFIC REQUIREMENTS.
25. CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS, SHOP DRAWINGS, AND DEVICE CUT SHEETS FOR ALL SECURITY EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
26. UPON COMPLETION, PROVIDE RECORD DRAWINGS (AS-BUILTS), INCLUDING CONDUIT ROUTING, DEVICE LOCATIONS, CABLE IDS, AND PANEL TERMINATIONS. LABEL ALL DEVICES IN THE FIELD TO MATCH RECORD DOCUMENTS.
27. CONTRACTOR SHALL NOTIFY THE SECURITY CONSULTANT AND/OR ARCHITECT OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS PRIOR TO INSTALLATION. UNAUTHORIZED SUBSTITUTIONS OR RELOCATIONS MAY BE SUBJECT TO REMOVAL AND CORRECTION AT THE CONTRACTOR`S EXPENSE.

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Jason Gonzalez Jr
BICSI ID # 364970
EXPIRES 12-31-25
RCDD

09-16-2025

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C	06/06/2025	50% CONSTRUCTION DOCUMENTS
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E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME
FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS
16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE
SECURITY LEVEL 1 - FLOOR PLAN - AREA B2

SHEET NUMBER
TS2.32

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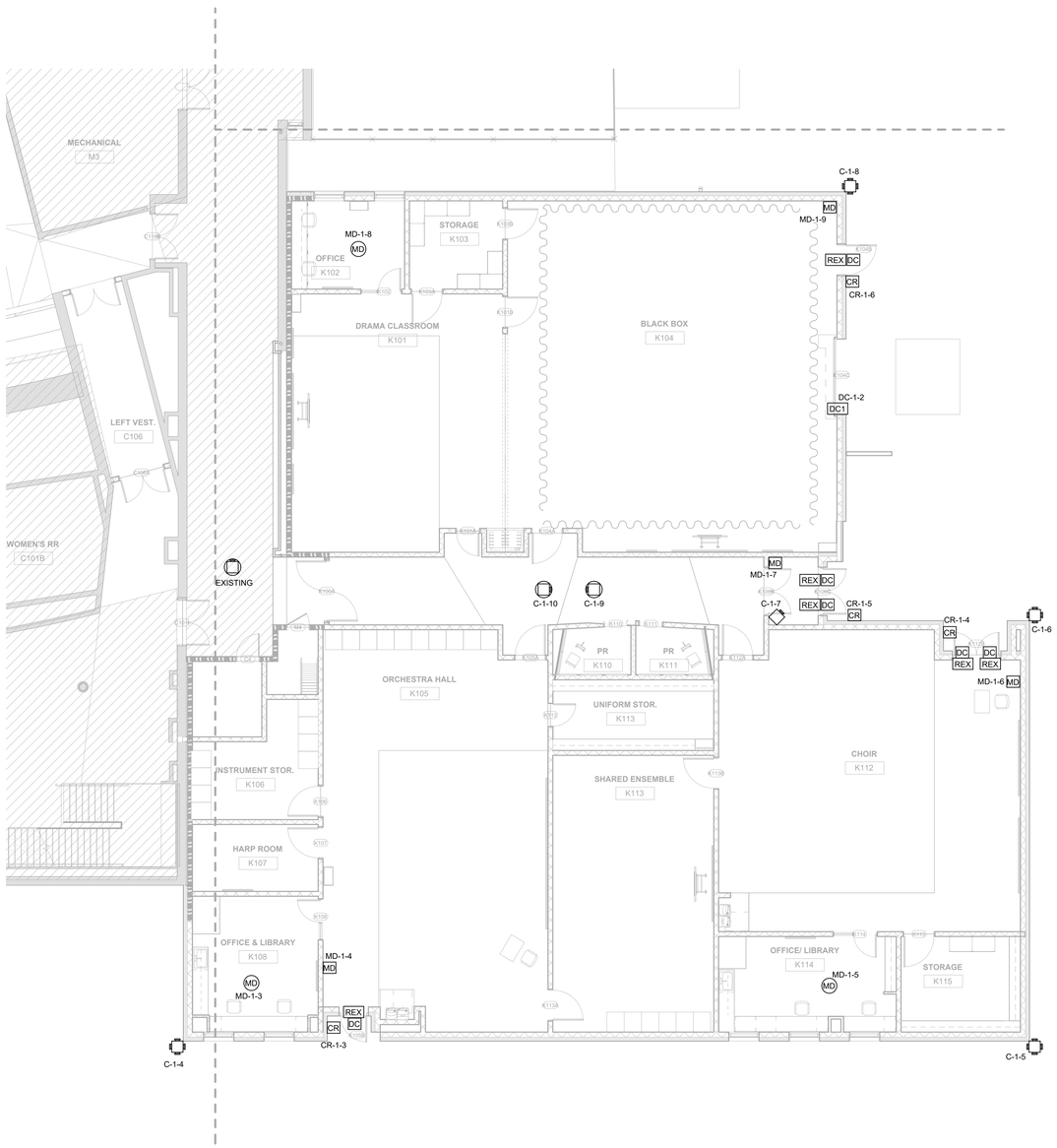

1 TS2.33 SECURITY LEVEL 1 - FLOOR PLAN - AREA B3
1/8" = 1'-0"

SECURITY FLOOR PLANS GENERAL NOTES:

1. ALL SECURITY INSTALLATIONS SHALL COMPLY WITH LOCAL CODES AND PERMITTING REQUIREMENTS FOR LOW-VOLTAGE, CCTV, AND ACCESS CONTROL SYSTEMS. CONTRACTOR SHALL VERIFY AND OBTAIN ALL REQUIRED PERMITS PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED BOXES, CONDUIT, CABLING, SUPPORTS, TERMINATIONS, AND ACCESSORIES FOR A COMPLETE AND CODE-COMPLIANT SECURITY SYSTEM, WHETHER OR NOT EACH ITEM IS SPECIFICALLY SHOWN.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, SLEEVES, AND ASSOCIATED INFRASTRUCTURE SHOWN ON SECURITY DRAWINGS SHALL BE INSTALLED BY DIVISION 26 (ELECTRICAL).
4. ALL POWER TO SECURITY DEVICES, PANELS, AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 26 (ELECTRICAL) UNLESS OTHERWISE NOTED.
5. SECURITY DATA NETWORK CABLING, FIBER CONNECTIVITY, AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 (COMMUNICATIONS). REFER TO T-SERIES DRAWINGS FOR ROUTING AND REQUIREMENTS.
6. ELECTRIFIED DOOR HARDWARE INDICATED ON SECURITY DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 8. REFER TO DOOR HARDWARE SCHEDULES FOR MODEL TYPES, POWER TRANSFER DEVICES, AND CONTROL INTERFACE REQUIREMENTS.
7. VEHICLE GATE EQUIPMENT AND OPERATORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 11. COORDINATE ALL SECURITY-RELATED RELAY CABLING AND TERMINATIONS IN THE FIELD.
8. ELEVATOR SECURITY INTERFACES, INCLUDING CARD READER FLOOR ACCESS, HALL CALL CONTROL, AND CAMERAS, SHALL BE COORDINATED WITH THE ELEVATOR VENDOR. TRAVEL CABLES AND ASSOCIATED TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY THE ELEVATOR CONTRACTOR. REFER TO ELEVATOR SHOP DRAWINGS AND SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
9. WHERE SYSTEMS INTERFACE WITH EMERGENCY SERVICES (E.G., GATES, EGRESS HARDWARE, OR INTERCOMS), COORDINATION WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) IS REQUIRED PRIOR TO COMMISSIONING.
10. WHERE INTEGRATION WITH BUILDING SYSTEMS IS REQUIRED (E.G., BMS, ELEVATOR RECALL, INTERCOM, OR FIRE ALARM), COORDINATION SHALL BE PERFORMED WITH THE RESPECTIVE SYSTEM VENDORS PRIOR TO ROUGH-IN.
11. SECURITY EQUIPMENT SHALL BE POWERED FROM DEDICATED CIRCUITS UNLESS OTHERWISE NOTED. COORDINATE PANEL LOCATIONS, BREAKER REQUIREMENTS, AND UPS BACKUP (IF REQUIRED) WITH DIVISION 26.
12. ALL SECURITY SYSTEM COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER MANUFACTURER REQUIREMENTS AND APPLICABLE ELECTRICAL CODES.
13. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTES WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS PRIOR TO INSTALLATION OR TRENCHING.
14. ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR STRUCTURES FOR SECURITY CABLING SHALL BE SEALED TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS.
15. PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO REDUCE ACOUSTIC TRANSMISSION BETWEEN SPACES.
16. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED TO PREVENT WATER INTRUSION INTO INTERIOR OR CONDITIONED SPACES.
17. CONTRACTOR SHALL RESTORE ALL SURFACES (E.G., WALLS, PAVEMENT, LANDSCAPING) AFFECTED BY SECURITY INSTALLATION TO ORIGINAL OR BETTER CONDITION.
18. ALL SECURITY DEVICE LOCATIONS SHOWN ARE DIAGRAMMATIC AND NOT TO SCALE. FINAL PLACEMENT SHALL BE COORDINATED WITH THE ARCHITECT OR SECURITY DESIGN CONSULTANT PRIOR TO ROUGH-IN.
19. COORDINATE ALL EXTERIOR CAMERA LOCATIONS WITH LANDSCAPING AND ADJACENT BUILDING ELEMENTS. ENSURE CLEAR FIELDS OF VIEW FREE FROM OBSTRUCTIONS SUCH AS TREES, DOWNSPOUTS, OR SIGNAGE.
20. DEVICE MOUNTING HEIGHTS, INCLUDING ACCESS CONTROL AND INTERCOMS, SHALL COMPLY WITH ADA ACCESSIBILITY STANDARDS AND APPLICABLE LOCAL AND STATE CODES.
21. VERIFY EXACT MOUNTING CONDITIONS IN THE FIELD AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS WITH STRUCTURE, FINISHES, OR UTILITIES.
22. ALL INSTALLED SYSTEMS AND COMPONENTS SHALL BE TESTED FOR FULL FUNCTIONALITY, INTEGRATION, AND COMPLIANCE WITH SPECIFICATIONS PRIOR TO FINAL TURNOVER.
23. CONTRACTOR SHALL COORDINATE FINAL TERMINATIONS, PROGRAMMING, AND SYSTEM COMMISSIONING WITH THE SECURITY VENDOR OR INTEGRATOR. SYSTEM FUNCTIONALITY SHALL BE DEMONSTRATED AND ACCEPTED BY THE OWNER PER WRITTEN SPECIFICATIONS.
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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SECURITY LEVEL 1 - FLOOR PLAN - AREA B3

SHEET NUMBER

TS2.33

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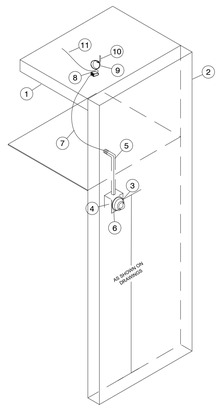
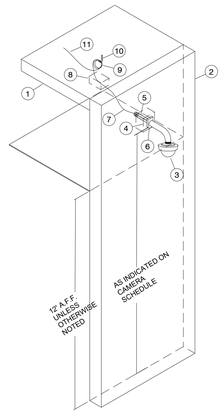


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. INTERIOR WALL AS SCHEDULED.
3. INTERIOR WALL MOUNTED IP VIDEO SURVEILLANCE DOME CAMERA (REFERENCE SPECIFICATION).
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
5. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. DOUBLE GANG PLASTER RING (BY DIV 26).
7. PATCH CORD AS SPECIFIED.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL INTERIOR WALL MOUNTED SURVEILLANCE CAMERA

1 / TS4.00 — SCALE: N.T.S.

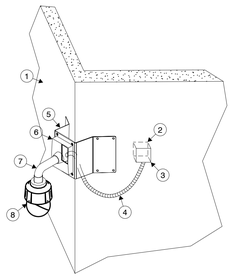


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. EXTERIOR WALL MOUNTED IP VIDEO SURVEILLANCE HD DOME CAMERA (REFERENCE SPECIFICATION).
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
5. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. WEATHERTIGHT GASKET FOR WEATHERPROOF BACKBOX (BY DIV 26).
7. PATCH CORD AS SPECIFIED.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL EXTERIOR FIXED WALL MOUNTED SURVEILLANCE CAMERA

2 / TS4.00 — SCALE: N.T.S.



KEYED NOTES:

1. SCHEDULED EXTERIOR WALL.
2. 4 11/16" X 4 11/16" X 2 1/8" DOUBLE GANG WATER PROOF BACKBOX INSTALLED FLUSH WITH THE BUILDING CONTRACTOR SHALL INSTALL BACKBOX NO FURTHER THAN 18-INCHES FROM THE CORNER OF THE BUILDING (BY DIV. 26).
3. ADJUSTABLE SEAL TIGHT BACKBOX WATER PROOF COVER PLATE (BY DIV. 26).
4. 3/4-INCH SEAL TIGHT FROM 4 11/16" X 4 11/16" X 2 1/8" DOUBLE GANG WATER PROOF BACKBOX COVER PLATE TO WALL MOUNTED CORNER BRACKET (BY DIV. 26).
5. CORNER MOUNT BRACKET.
6. WALL MOUNT BRACKET.
7. PENDANT KIT.
8. SURVEILLANCE CAMERA.

TYPICAL EXTERIOR CORNER MOUNTED SURVEILLANCE CAMERA

3 / TS4.00 — SCALE: N.T.S.

KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED INTERIOR IP VIDEO SURVEILLANCE DOME CAMERA (REFERENCE DIV 28 SPECIFICATIONS FOR EXACT MODEL).
4. PATCH CORD (BY DIV 27).
5. SURFACE MOUNT DATA OUTLET ABOVE ACCESSIBLE CEILING (BY DIV 27).
6. 20 FOOT SERVICE LOOP ABOVE ACCESIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
7. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
8. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. HEAVY DUTY T-GRID, SURVEILLANCE CAMERA SUPPORT ATTACHED TO CEILING GRID (BY DIV 26).
10. DOUBLE GANG BACKBOX WITH DUAL-GANG MUD RING (BY DIV 26).
11. GUIDEWIRE FROM DOUBLE GANG BACKBOX WITH DUAL-GANG MUD RING TO STRUCTURE (BY DIV 26).

TYPICAL INTERIOR CEILING MOUNTED SURVEILLANCE CAMERA

4 / TS4.00 — SCALE: N.T.S.

KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR ACCESS CONTROL CABLE (BY DIV. 26).
3. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6-INCHES FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3-INCH BLOCKOUT FOR GROUTED DOORS (BY DIV. 26).
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO EXIT DEVICE (BY DIV. 26).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
7. (1) ELECTRIFIED EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO A RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

WALL MOUNTED CARD READER WITH ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

5 / TS4.00 — SCALE: N.T.S.

KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR ACCESS CONTROL CABLE (BY DIV. 26).
3. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6-INCHES FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3-INCH BLOCKOUT FOR GROUTED DOORS (BY DIV. 26).
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO EXIT DEVICE (BY DIV. 26).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAMETO 3/8-INCH HOLE IN FRAME AT 42-INCH A.F.F. FOR CARD READER (BY DIV. 26).
7. (1) ELECTRIFIED EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

MULLION MOUNTED CARD READER WITH ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

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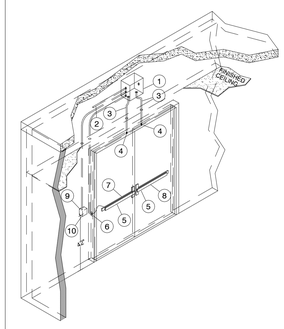

KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR ACCESS CONTROL CABLE (BY DIV. 26).
3. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6-INCHES FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3-INCH BLOCKOUT FOR GROUTED DOORS (BY DIV. 26).
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO EXIT DEVICE (BY DIV. 26).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
7. (1) MECHANICAL EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO A RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

WALL MOUNTED CARD READER WITH SINGLE ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

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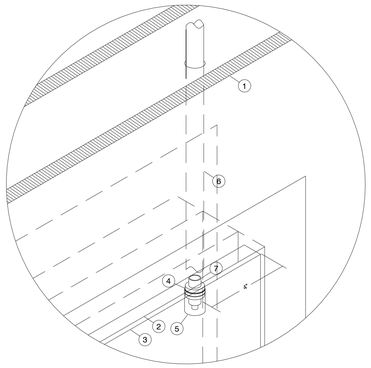
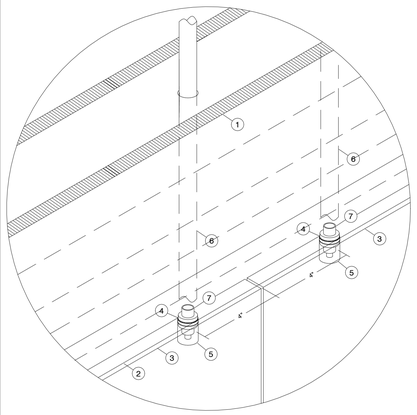


KEYED NOTES:

1. SCHEDULED PARTITION.
2. HEAD OF DOOR FRAME. PROVIDE TAB AT DOOR FRAME TO SECURE CONDUIT DIRECTLY ABOVE DOOR POSITION SWITCH.
3. SCHEDULED DOOR.
4. 15/16" DIAMETER HOLE IN THE HEAD OF FRAME FOR CONCEALED DOOR CONTACT.
5. 15/16" DIAMETER X 1 5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR CONTACT MAGNET.
6. 1/2" CONDUIT FROM 6" X 6" X 4" JUNCTION BOX ABOVE DOOR (BY DIV 26).
7. DOOR CONTACT (REFERENCE SPECIFICATION).

DOOR CONTACT - SINGLE DOOR RECESSED

8 / TS4.00 — SCALE: SCALE



KEYED NOTES:

1. SCHEDULED PARTITION.
2. HEAD OF DOOR FRAME. PROVIDE TAB AT DOOR FRAME TO SECURE CONDUIT DIRECTLY ABOVE DOOR POSITION SWITCH.
3. SCHEDULED DOOR.
4. 15/16" DIAMETER HOLE IN THE HEAD OF FRAME FOR CONCEALED DOOR CONTACT.
5. 15/16" DIAMETER X 1 5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR CONTACT MAGNET.
6. 1/2" CONDUIT FROM 6" X 6" X 4" JUNCTION BOX ABOVE DOOR (BY DIV 26).
7. DOOR CONTACT (REFERENCE SPECIFICATION).

DOOR CONTACT - DOUBLE DOOR RECESSED

9 / TS4.00 — SCALE: SCALE

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

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PROJECT ADDRESS

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KIRKSEY PROJECT NO. 2023306

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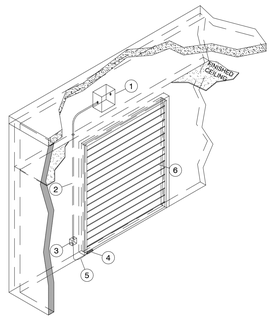


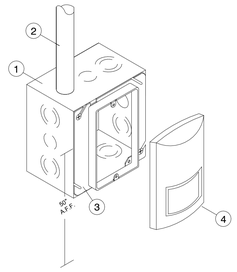
KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR OVERHEAD DOOR CONTACT CABLE (BY DIV. 26).
3. (1) 4-INCH WIDE X 4-INCH HIGH X 2 1/8" DEEP JUNCTION BOX SURFACE MOUNTED AT 1'-0" A.F.F. ON SECURE SIDE OF DOOR (BY DIV. 26).
4. OVERHEAD DOOR POSITION SWITCH SUFACE MOUNTED AND FASTENED TO FLOOR (BY DIV. 28).
5. ARMORED CABLE (BY DIV. 28).
6. OVERHEAD ROLL UP DOOR AS SCHEDULED.

DOOR CONTACT OVERHEAD DOOR (FLOOR MOUNT)

1 / TS4.01

SCALE: N.T.S.



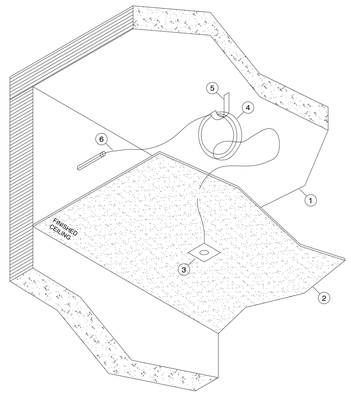
KEYED NOTES:

1. 4 1/16-INCH x 4 1/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING (BY DIV 26).
3. SINGLE GANG PLASTER RING (BY DIV 26).
4. SCHEDULED MOTION DETECTOR (BY DIV. 28).

TYPICAL MOTION DETECTOR - WALL MOUNT

2 / TS4.01

SCALE: N.T.S.



KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED MOTION DETECTOR (REFERENCE DIV 28 SPECIFICATIONS FOR EXACT MODEL).
4. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 28).
5. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 28).
6. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).

TYPICAL INTERIOR CEILING MOUNTED MOTION DETECTOR

3 / TS4.01

SCALE: N.T.S.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Jason Gonzalez Jr
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EXPIRES 12-31-25
RCDD

09-16-2025

△	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

FBISD BP030 WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SECURITY TYPICAL DETAILS

SHEET NUMBER

TS4.01

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FBISD WILLOWRIDGE HS
ACCESS CONTROL SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	DEVICE MOUNTING	ASSOCIATED DOOR NUMBER	ASSOCIATED DOOR TYPE	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	NOTES
CR-1-1	CARD READER	WALL	B110B	DOUBLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	
CR-1-2	CARD READER	WALL	B111C	SINGLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	
CR-1-3	CARD READER	WALL	K105B	SINGLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	
CR-1-4	CARD READER	WALL	K112B	DOUBLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	
CR-1-5	CARD READER	WALL	K100C	DOUBLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	
CR-1-6	CARD READER	WALL	K104B	SINGLE	48-INCHES A.F.F.	CONFIRM WITH OWNER	

FBISD WILLOWRIDGE HS
INTRUSION DETECTION SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	DEVICE MOUNTING	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	ZONE / AREA	NOTES
MD-1-1	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-2	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-3	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-4	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-5	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-6	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-7	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-8	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
MD-1-9	MOTION DETECTOR	WALL	96-INCHES A.F.F.	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
DC-1-1	OVERHEAD DOOR CONTACT	FLOOR	SEE TYPICAL DETAIL	CONFIRM WITH OWNER	CONFIRM WITH OWNER	
DC-1-2	OVERHEAD DOOR CONTACT	FLOOR	SEE TYPICAL DETAIL	CONFIRM WITH OWNER	CONFIRM WITH OWNER	

FBISD WILLOWRIDGE HS
VIDEO SURVEILLANCE SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	DEVICE RATING (INTERIOR / EXTERIOR)	DEVICE MOUNTING	DEVICE HEIGHT (TO CENTER)	NOTES
C-1-1	SINGLE LENS DOME	EXTERIOR	WALL	9-FEET A.F.F.	
C-1-2	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-3	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-4	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-5	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-6	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-7	SINGLE LENS DOME	EXTERIOR	WALL	9-FEET A.F.F.	
C-1-8	360° MULTI-DIRECTIONAL LENS	EXTERIOR	WALL	12-FEET A.F.F.	
C-1-9	SINGLE LENS DOME	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-10	SINGLE LENS DOME	INTERIOR	CEILING	SEE TYPICAL DETAIL	

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

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SECURITY SCHEDULES

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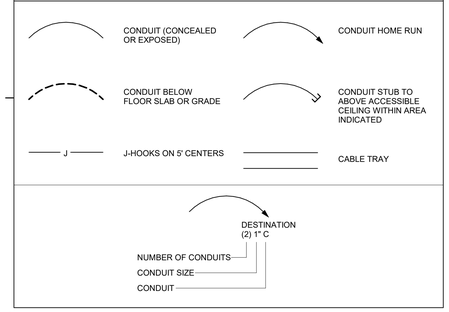
GENERAL ABBREVIATIONS

--	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
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

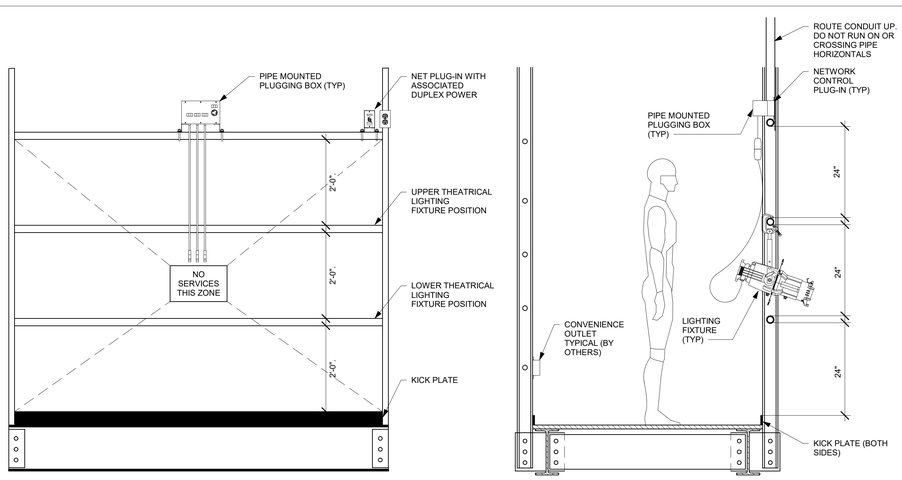
SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
CR3	CONTROL RECEPTACLE STATION	TYPE 3	3-GANG	BUILDING OUTLET HEIGHT	--	CUSTOM; REF DETAIL	REF DETAIL	AS REQUIRED FOR NUMBER OF CABLES; REF PLANS AND DETAILS
CRS	CONTROL RECEPTACLE STATION	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	CUSTOM; REF DETAIL	REF DETAIL	AS REQUIRED FOR NUMBER OF CABLES; REF PLANS AND DETAILS
DMX	DMX RECEPTACLE STATION (IN OR OUT)	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	REF DETAIL	REF PLANS
EDB	EMERGENCY DMX BYPASS CONTROL	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
ELTS	EMERGENCY LIGHTING TRANSFER SWITCH	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
ERP	EMERGENCY DMX CONTROLLED RELAY PANEL	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
GJB	GRIDIRON JUNCTION BOX	--	--	MOUNTED TO WALL AS NOTED	MOUNTED TO STRUCTURE AS NOTED	MOUNTED TO GRIDIRON AS NOTED	COORDINATE CABLE MANAGEMENT WITH TR CONTRACTOR	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
HL2	HOUSE LIGHT STATION WITH TWO PUSH BUTTONS	TYPE 1	1-GANG	BUILDING SWITCH HEIGHT	--	--	REF DETAIL	REF PLANS
HLM	HOUSE LIGHT MASTER LCD STATION	TYPE 3	3-GANG	BUILDING SWITCH HEIGHT	--	CUSTOM; REF DETAIL	REF DETAIL	REF PLANS
JB	JUNCTION BOX	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	CUSTOM; REF DETAIL	--	AS REQUIRED FOR NUMBER OF CABLES; REF PLANS AND DETAILS
MBP	MOTORIZED BREAKER PANEL	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
NET	THEATRICAL LIGHTING NETWORK RECEPTACLE	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	CAN BE RECESSED, SURFACE, OR PIPE MOUNT; REF DETAIL	REF PLANS
NN2	THEATRICAL LIGHTING NETWORK DMX NODE (TWO UNIVERSE)	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	REF DETAIL	REF PLANS
PB	MULTI-CIRCUIT PLUGGING BOX	--	--	--	--	--	PIPE MOUNT; REF DETAIL	REF DETAIL
PB3	MULTI-CIRCUIT PLUGGING BOX	--	--	--	--	--	PIPE MOUNT; REF DETAIL	REF DETAIL
PLM	PHASE LOSS MONITOR	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
PSU	POWER SUPPLY UNIT	CUSTOM	CUSTOM	BUILDING OUTLET HEIGHT	--	--	REF DETAIL; COORDINATE WITH DIVISION 11 SUBCONTRACTOR	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
R	MULTI-CIRCUIT PLUGGING RACEWAY	--	--	--	--	--	INTEGRAL TO STAGE ELECTRIC; COORDINATE WITH DIVISION 11 61 33	CABLE MANAGEMENT AS SPECIFIED
SMP	STAGE MANAGER PANEL	--	--	--	--	--	REF DETAIL; COORDINATE WITH DIVISION 27	--
WB	MULTI-CIRCUIT WALL BOX	CUSTOM	CUSTOM	BUILDING OUTLET HEIGHT	--	--	REF DETAIL; COORDINATE WITH DIVISION 11 SUBCONTRACTOR	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL

LEGEND NOTES - THEATRE LIGHTING SYSTEMS

1 WALL MOUNTED ENCLOSURE

ADVISORY CATWALK DEVICE MOUNTING DETAIL



NOTE:
ALL STRUCTURE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL STRUCTURAL MATERIALS, CONNECTIONS, AND DIMENSIONS.

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

GENERAL NOTES AND LEGENDS

SHEET NUMBER

TL0.00

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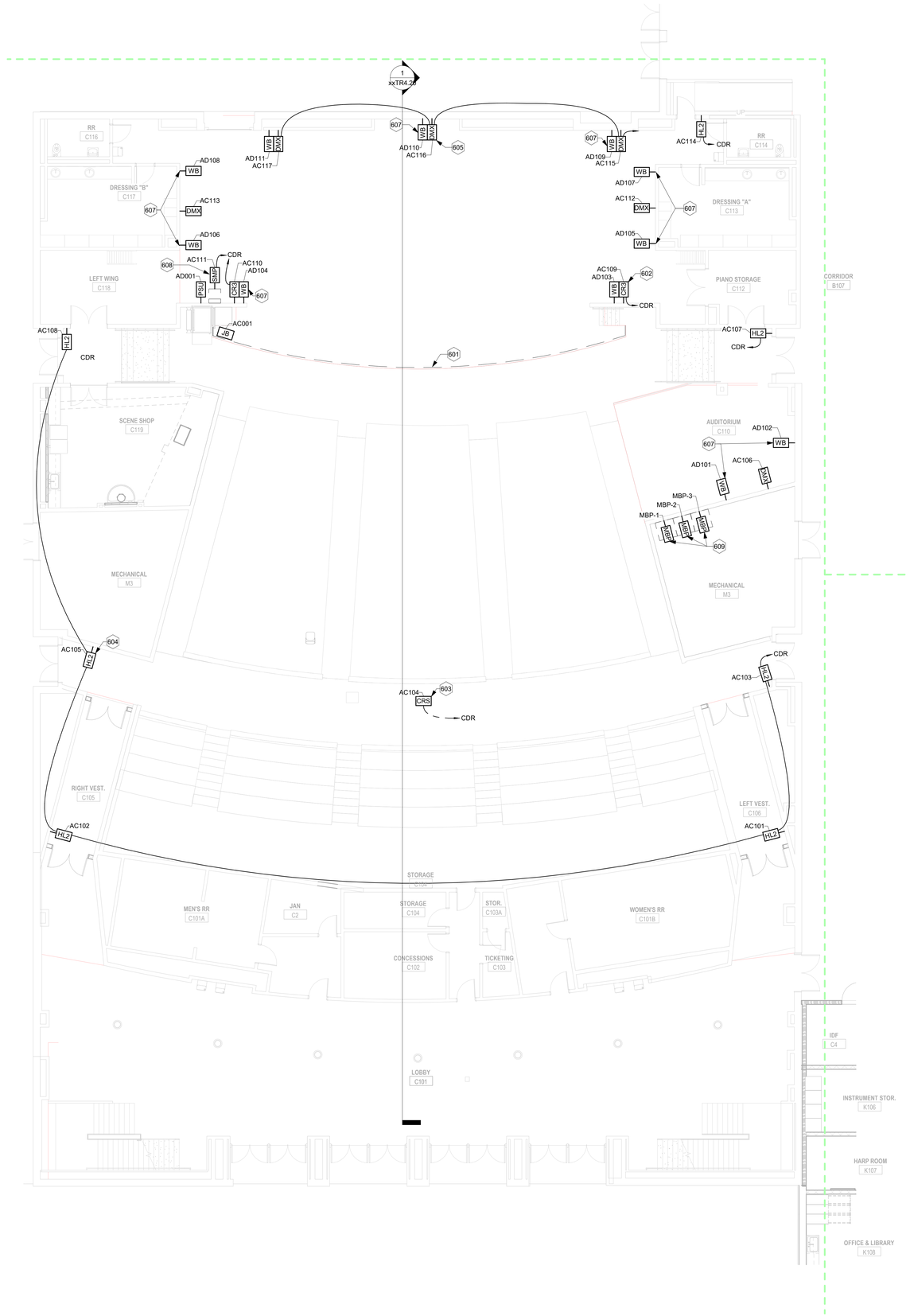

KEYNOTES

601	LED SAFETY LIGHT: ONE (1) CIRCUIT FOR STAGE EDGE, ONE (1) CIRCUIT FOR UPSTAGE EDGE WHEN PIT IS OPEN. REFERENCE ELECTRICAL DRAWINGS.
602	TWO (2) LIGHTING NETWORK PORT AND ONE (1) DMX OUTPUT CONTROL RECEPTACLE STATION. TYPICAL OF ALL CR3 DEVICES.
603	DIRECTOR'S FLOOR POCKET - CONTAINS ONE (2) LIGHTING NET TAP, ONE (1) CONVINENCE POWER OUTLET, POWER AS NOTED ON TL SHEETS. CONDUIT SHOWN PERTAINS TO THEATRICAL LIGHTING CONNECTIONS ONLY. COORDINATE ADDITIONAL CONDUIT REQUIREMENTS WITH ELECTRICAL.
604	2-BUTTON PRESET STATION FOR ARCHITECTURAL LIGHTING CONTROL. TYPICAL OF ALL HL2 DEVICES.
605	WALL RECESSED DMX OUTPUT RECEPTACLE STATION. TYPICAL OF ALL DMX DEVICES ON THIS SHEET.
607	DUAL-RECEPTACLE WALL-MOUNTED PLUGGING BOX. IF PRESENT AND IN SUITABLE CONDITION, CLEAN AND REUSE EXISTING CONDUIT AND BACK BOX.
608	STAGE MANAGER'S PANEL (SMP) PROVIDED AS PART OF 27 41 16 SCOPE OF WORK. REF TO TL RISER AND DETAIL TL16.10 AND TL16.01
609	48-CIRCUIT MOTORIZED BREAKER PANEL (MBP). REFFER TO TL RISER AND ELECTRICAL SHEETS.

1/8" = 1'-0"

TL_LEVEL 1 FLOOR PLAN - AREA B2 | A4

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2020

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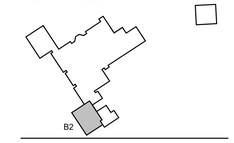
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B2

SHEET NUMBER

TL2.32

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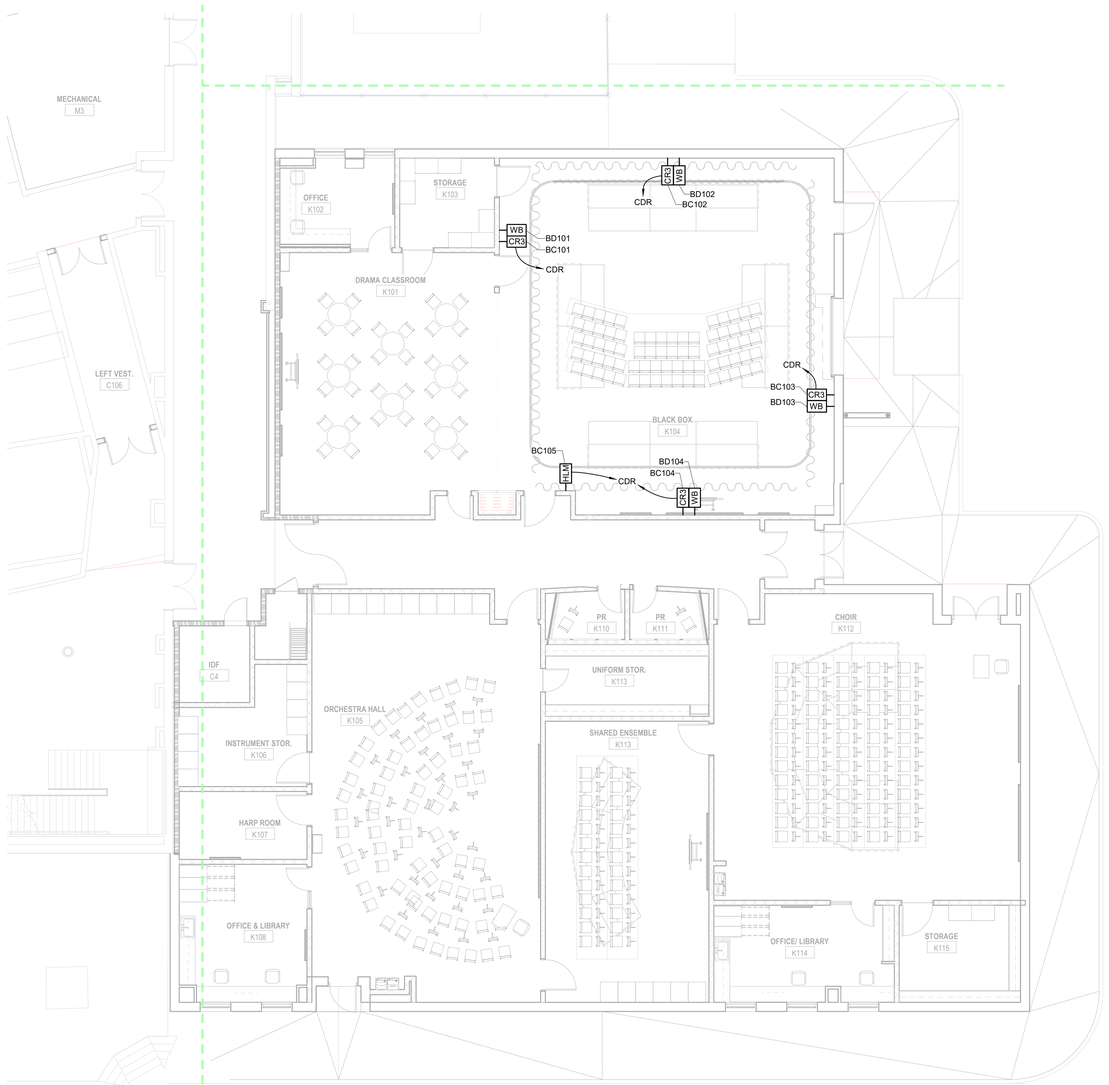

1/8" = 1'-0"

TL_ LEVEL 1 FLOOR PLAN - AREA B3 | A4

KEYNOTES

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PROJECT ADDRESS

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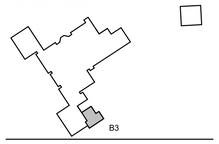
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B3

SHEET NUMBER

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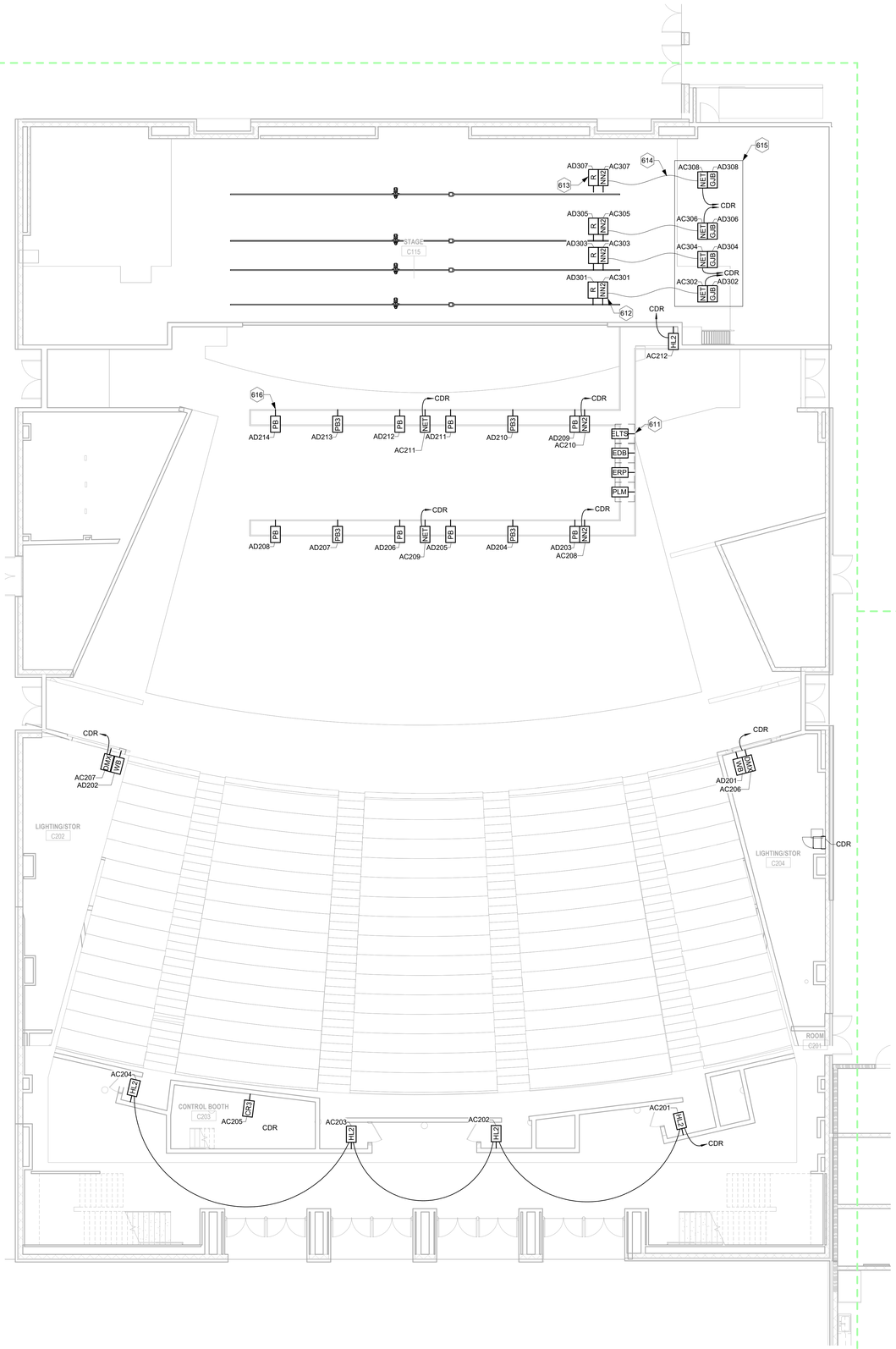

KEYNOTES

611	PROVIDE REMOTE-CONTROL ELTS KEYSWITCH IN SMP WITHIN AV RACK; COORD WITH ELEC AND AV
612	2-PORT DMX GATEWAY WITHIN RACEWAY
613	RACEWAY, SO CABLES, AND CABLE CRADLES FOR STAGE ELECTRICS. TYPICAL OF ALL R DEVICES.
614	VIA INTEGRATED CABLE MANAGMANET, TYP.
615	DEVICES MOUNTED TO STRUCTURE ABOVE
616	FIELD VERIFY EXISTING CONDUIT; CLEAN AND RE-USE IF IN GOOD CONDITION. TYP. OF ALL CATWALK DEVICES

1/8" = 1'-0"

TL_LEVEL 2 FLOOR PLAN - AREA B2 | A4

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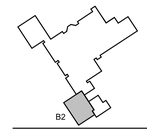
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 FLOOR PLAN - AREA B2

SHEET NUMBER

TL2.36

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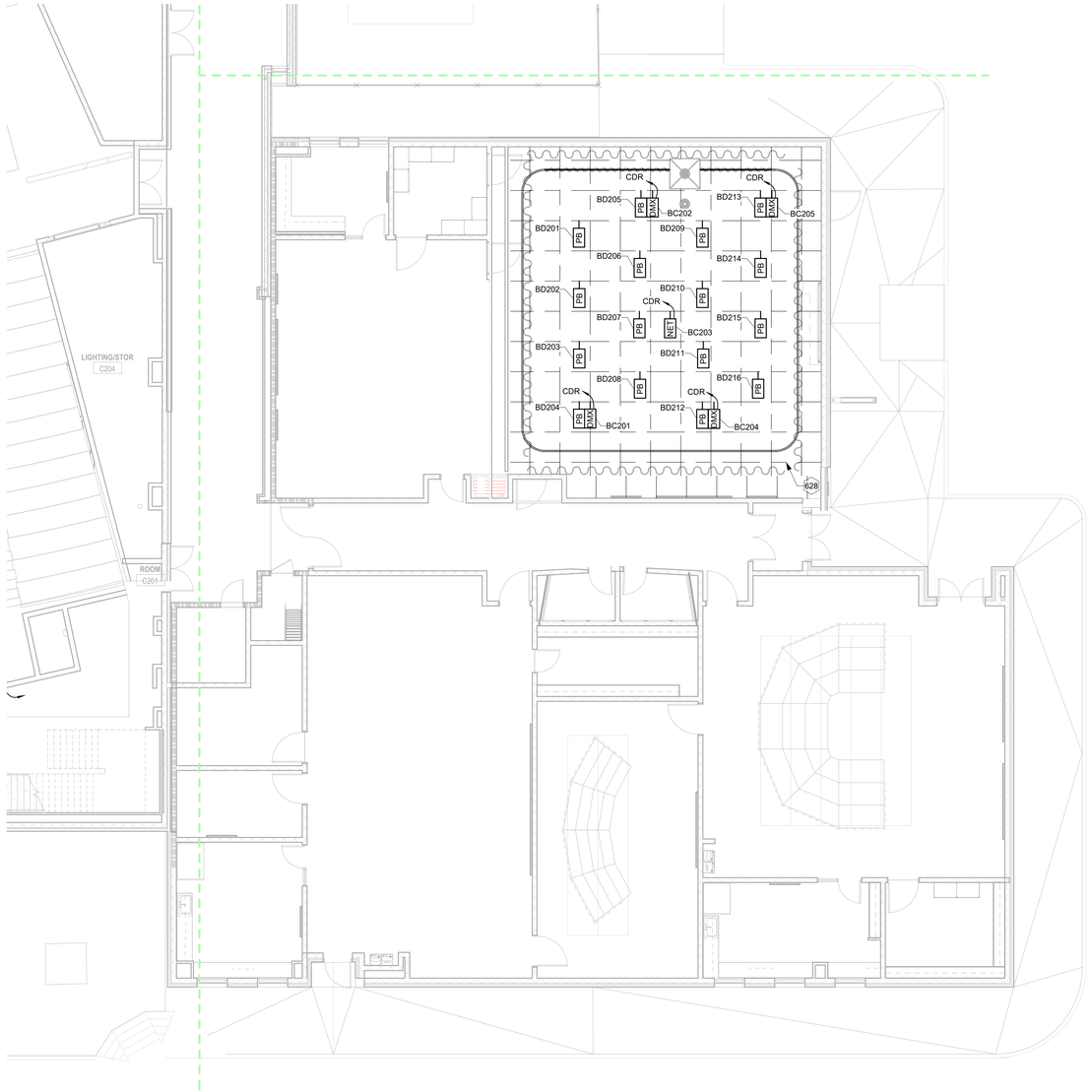

KEYNOTES

628	PIPE-GRID SHOWN FOR COORDINATION PURPOSES

1/8" = 1'-0"

TL_ LEVEL 2 FLOOR PLAN - AREA B3 | 1

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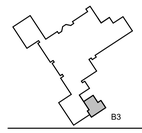
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



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LEVEL 2 FLOOR PLAN - AREA B3

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BLACK BOX TL CONTROL DEVICE SCHEDULE

ID DESIGNATOR	TYPE ID	LOCATION	MOUNTING	TO	WIRING DESTINATION	NOTES
BC101	CR3	SW WALL	RECESSED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
BC102	CR3	NW WALL	RECESSED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
BC103	CR3	NE WALL	RECESSED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
BC104	CR3	SE WALL	RECESSED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
BC105	HLM	SE WALL	RECESSED AT PSH	CDR	ARCH	--
BC201	DMX	PIPE GRID	PIPE	CDR	GTWY	--
BC202	DMX	PIPE GRID	PIPE	CDR	GTWY	--
BC203	NET	PIPE GRID	PIPE	CDR	ESW	--
BC204	DMX	PIPE GRID	PIPE	CDR	GTWY	--
BC205	DMX	PIPE GRID	PIPE	CDR	GTWY	--

BLACK BOX TL DISTRIBUTION DEVICE SCHEDULE

ID DESIGNATOR	TYPE ID	CIRCUIT LABELS	LOCATION	MBP-3 CIRCUIT #	LOAD TYPE	NOTES
BD201	PB	1-2	PIPE GRID	1-2	PORTABLE	--
BD202	PB	3-4	PIPE GRID	3-4	PORTABLE	--
BD203	PB	5-6	PIPE GRID	5-6	PORTABLE	--
BD204	PB	7-8	PIPE GRID	7-8	PORTABLE	--
BD205	PB	9-10	PIPE GRID	9-10	PORTABLE	--
BD206	PB	11-12	PIPE GRID	11-12	PORTABLE	--
BD207	PB	13-14	PIPE GRID	13-14	PORTABLE	--
BD208	PB	15-16	PIPE GRID	15-16	PORTABLE	--
BD209	PB	17-18	PIPE GRID	17-18	PORTABLE	--
BD210	PB	19-20	PIPE GRID	19-20	PORTABLE	--
BD211	PB	21-22	PIPE GRID	21-22	PORTABLE	--
BD212	PB	23-24	PIPE GRID	23-24	PORTABLE	--
BD213	PB	25-26	PIPE GRID	25-26	PORTABLE	--
BD214	PB	27-28	PIPE GRID	27-28	PORTABLE	--
BD215	PB	29-30	PIPE GRID	29-30	PORTABLE	--
BD216	PB	31-32	PIPE GRID	31-32	PORTABLE	--
BD101	WB	33-34	NW WALL	33-34	PORTABLE	--
BD102	WB	35-36	NW WALL	35-36	PORTABLE	--
BD103	WB	37-38	NE WALL	37-38	PORTABLE	--
BD104	WB	39-40	SE WALL	39-40	PORTABLE	--
BD401	ARCH	--	SPARE	41-48	TBD	RESERVED FOR FUTURE USE

AUDITORIUM TL CONTROL DEVICE SCHEDULE

ID DESIGNATOR	TYPE ID	LOCATION	MOUNTING	TO	WIRING DESTINATION	NOTES
AC001	JB	STAGE EDGE SAFTY LIGHT	WITHIN FLOOR	PSU	GTWY	VERIFY INSTALLATION OF JUNCTION BOX
AC101	HL2	LEFT VEST	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC102	HL2	RIGHT VEST	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC103	HL2	MID HR DOUBLE DOORS	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC104	CRS	CROSS FLOOR POCKET	WITHIN FLOOR	CDR	ESW	(2) NETS
AC105	HL2	MID HL DOUBLE DOORS	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC106	DMX	ORCHESTRA PLATFORM	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC107	HL2	HR STAGE DOUBLE DOORS	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC108	HL2	HL STAGE DOUBLE DOORS	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC109	CR3	DSL WALL	SURFACE MOUNTED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
AC110	CR3	DSL WALL	SURFACE MOUNTED AT PRH	CDR	ESW ; GTWY	(2) NETS ; DMX OUT
AC111	SMP	DSR WALL	RACK MOUNTED	CDR	ESW ; ARCH	--
AC112	DMX	SL WALL	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC113	DMX	SR WALL	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC114	HL2	USL WALL	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC115	DMX	USL WALL	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC116	DMX	USC WALL	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC117	DMX	USR WALL	SURFACE MOUNTED AT PRH	CDR	GTWY	--
AC201	HL2	HR REAR ENTRYWAY	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC202	HL2	HRC REAR ENTRYWAY	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC203	HL2	HLC REAR ENTRYWAY	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC204	HL2	HL REAR ENTRYWAY	SURFACE MOUNTED AT PSH	CDR	ARCH	--
AC205	CR3	FOH LIGHTING CONTROL POSITION	SURFACE MOUNTED AT PRH	CDR	ESW	(3) NETS
AC206	DMX	HR FOLLOW SPOT POSITION	PIPE	CDR	GTWY	--
AC207	DMX	HL FOLLOW SPOT POSITION	PIPE	CDR	GTWY	--
AC208	NN2	FOH CATWALK #2	PIPE	CDR	ESW	--
AC209	NET	FOH CATWALK #2	PIPE	CDR	ESW	--
AC210	NN2	FOH CATWALK #1	PIPE	CDR	ESW	--
AC211	NET	FOH CATWALK #1	PIPE	CDR	ESW	--
AC212	HL2	CATWALK	SURFACE MOUNTED AT PSH	CDR	ESW	--
AC301	NN2	1ST ELECTRIC	WITHIN RACEWAY	CDR	ESW	FROM AC302 VIA INTEGRATED CABLE MANAGMENT
AC302	NET	STRUCTURE	GJB	CDR	ESW	--
AC303	NN2	2ND ELECTRIC	WITHIN RACEWAY	CDR	ESW	FROM AC304 VIA INTEGRATED CABLE MANAGMENT
AC304	NET	STRUCTURE	GJB	CDR	ESW	--
AC305	NN2	3RD ELECTRIC	WITHIN RACEWAY	CDR	ESW	FROM AC306 VIA INTEGRATED CABLE MANAGMENT
AC306	NET	STRUCTURE	GJB	CDR	ESW	--
AC307	NN2	4TH ELECTRIC	WITHIN RACEWAY	CDR	ESW	FROM AC308 VIA INTEGRATED CABLE MANAGMENT
AC308	NET	STRUCTURE	GJB	CDR	ESW	--

AUDITORIUM TL DISTRIBUTION DEVICE SCHEDULE

ID DESIGNATOR	TYPE ID	CIRCUIT LABELS	LOCATION	MBP-1 DESTINATION	MBP-2 DESTINATION	ERP DESTINATION	LOAD TYPE	NOTES
AD001	PSU	--	STAGE EDGE POWER SUPPLY UNIT (PSU)	--	48	--	PERMANENT	PROVIDE NON-DMX CONTROLLED BREAKER. CIRCUIT WITH A007
AD002	ARCH	--	HOUSE LIGHTS	--	34-39	1-4	PERMANENT	RESERVED FOR ARCHITECTURAL LIGHITNG (DMX)/(0-10V)
AD003	ARCH	--	AISLE LIGHTS	--	40 ; 43	--	PERMANENT	RESERVED FOR ARCHITECTURAL LIGHITNG (DMX)/(0-10V)
AD004	ARCH	--	BLUES SYSTEM	--	41	--	PERMANENT	PROVIDE NON-DMX CONTROLLED BREAKER
AD005	ARCH	--	TASK LIGHTING	--	42	--	PERMANENT	PROVIDE NON-DMX CONTROLLED BREAKER
AD006	ARCH	--	SPARE	--	44-47	--	TBD	RESERVED FOR FUTURE USE
AD007	ARCH	--	CDR	--	48	--	PERMENANT	PROVIDE NON-DMX CONTROLLED BREAKER
AD201	WB	1-2	HR FOLLOW SPOT POSITION	1-2	--	--	PORTABLE	--
AD202	WB	3-4	HL FOLLOW SPOT POSITION	3-4	--	--	PORTABLE	--
AD203	PB	5-6	FOH CATWALK #2	5-6	--	--	PORTABLE	--
AD204	PB3	7-8 ; WL-5	FOH CATWALK #2	7-8	33	--	PORTABLE	--
AD205	PB	9-10	FOH CATWALK #2	9-10	--	--	PORTABLE	--
AD206	PB	11-12	FOH CATWALK #2	11-12	--	--	PORTABLE	--
AD207	PB3	13-14 ; WL-5	FOH CATWALK #2	13-14	33	--	PORTABLE	--
AD208	PB	15-16	FOH CATWALK #2	15-16	--	--	PORTABLE	--
AD209	PB	17-18	FOH CATWALK #1	17-18	--	--	PORTABLE	--
AD210	PB3	19-20	FOH CATWALK #1	19-20	--	--	PORTABLE	--
AD211	PB	21-22	FOH CATWALK #1	21-22	--	--	PORTABLE	--
AD212	PB	23-24	FOH CATWALK #1	23-24	--	--	PORTABLE	--
AD213	PB3	25-26	FOH CATWALK #1	25-26	--	--	PORTABLE	--
AD214	PB	27-28	FOH CATWALK #1	27-28	--	--	PORTABLE	--
AD301	R	29-36 ; WL-1	1ST ELECTRIC	29-36	29	--	PORTABLE	FROM AD302 VIA INTEGRATED CABLE MANAGMENT
AD302	GJB	29-36 ; WL-1	STRUCTURE	29-36	29	--	PORTABLE	--
AD303	R	37-44 ; WL-2	2ND ELECTRIC	37-44	30	--	PORTABLE	FROM AD304 VIA INTEGRATED CABLE MANAGMENT
AD304	GJB	37-44 ; WL-2	STRUCTURE	37-44	30	--	PORTABLE	--
AD305	R	45-52 ; WL-3	3RD ELECTRIC	45-48	1-4 ; 31	--	PORTABLE	FROM AD306 VIA INTEGRATED CABLE MANAGMENT
AD306	GJB	45-52 ; WL-3	STRUCTURE	45-48	1-4 ; 31	--	PORTABLE	--
AD307	R	53-60 ; WL-4	4TH ELECTRIC	--	5-12 ; 32	--	PORTABLE	FROM AD308 VIA INTEGRATED CABLE MANAGMENT
AD308	GJB	53-60 ; WL-4	STRUCTURE	--	5-12 ; 32	--	PORTABLE	--
AD101	WB	61	ORCHESTRA PLATFORM	--	13	--	PORTABLE	--
AD102	WB	62	ORCHESTRA PLATFORM	--	14	--	PORTABLE	--
AD103	WB	63-64	DSL WALL	--	15-16	--	PORTABLE	--
AD104	WB	65-66	DSR WALL	--	17-18	--	PORTABLE	--
AD105	WB	67	SL WALL	--	19	--	PORTABLE	--
AD106	WB	68	SR WALL	--	20	--	PORTABLE	--
AD107	WB	69	SL WALL	--	21	--	PORTABLE	--
AD108	WB	70	SR WALL	--	22	--	PORTABLE	--
AD109	WB	71-72	USL WALL	--	23-24	--	PORTABLE	--
AD110	WB	73-74	USC WALL	--	25-26	--	PORTABLE	--
AD111	WB	75-76	USR WALL	--	27-28	--	PORTABLE	--

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D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

SCHEDULES

SHEET NUMBER

TL16.00

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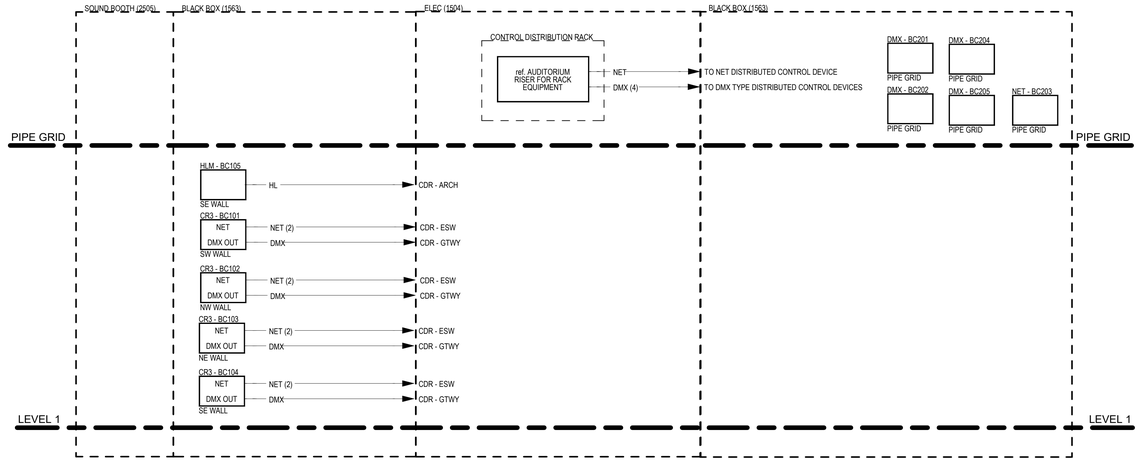
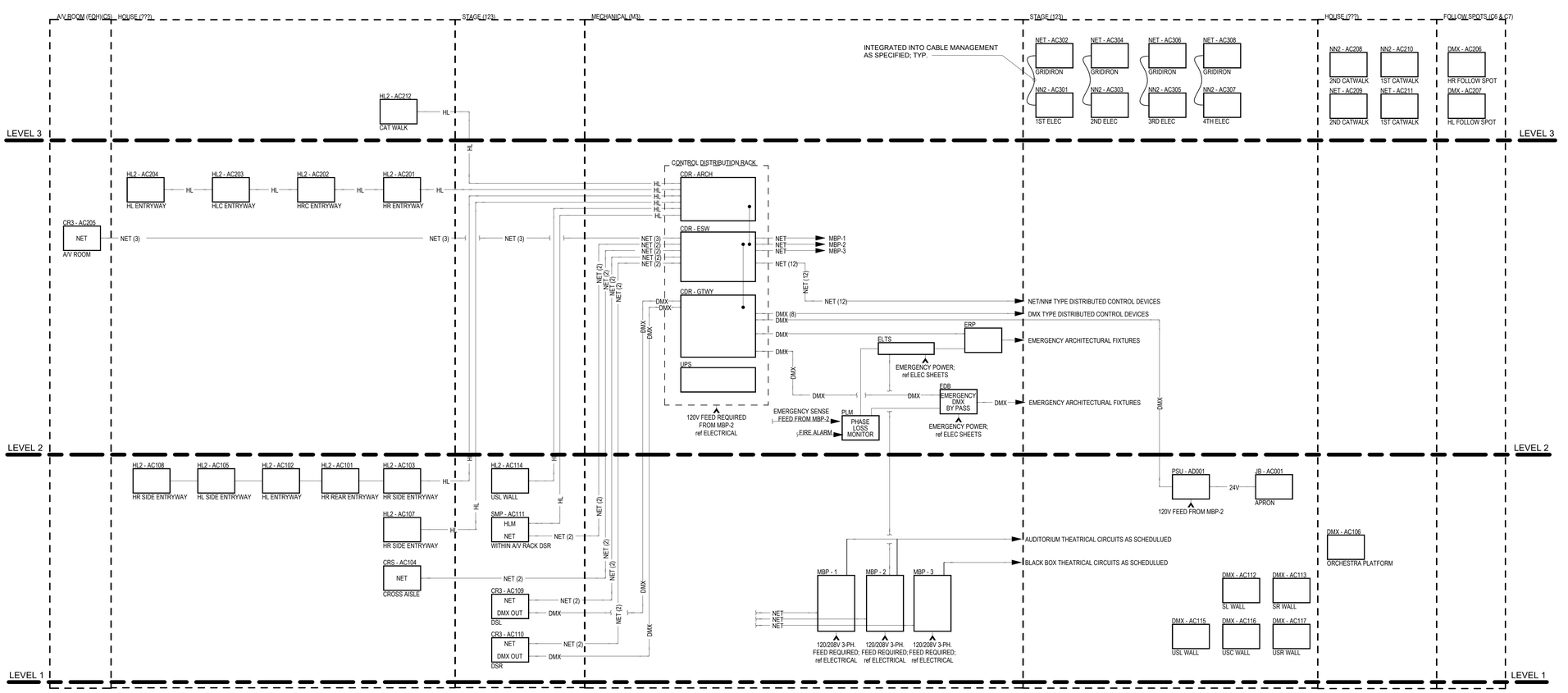


2 BLACK BOX LIGHTING CONTROL RISER DIAGRAM
12" = 1'-0"

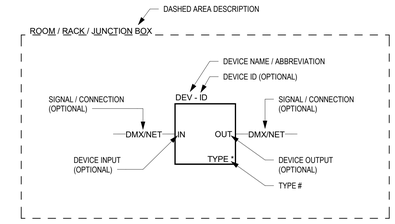


1 AUDITORIUM LIGHTING CONTROL RISER DIAGRAM
12" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION SO THAT LOADS ARE PROPERLY LANDED INSIDE DIMMER RACK TO ACHIEVE PROPER FUNCTION OF THE ETHERNET LIGHING NETWORK.
2. ALL HOUSELIGHT / WORKLIGHT WIRING CONFIGURATION SHOULD BE CERTIFIED WITH LIGHTING CONTROL EQUIPMENT MANUFACTURER.
3. PROVIDE UPS BACKUP FOR DMX DISTRIBUTION, ARCHITECTURAL LIGHTING CONTROL PROCESSOR AND LIGHTING CONTROL CONSOLES.
4. WORKLIGHT, HOUSELIGHT, SEATLIGHT, STEPLIGHT, AND SAFETY LIGHT LOADS SHALL BE COORDINATED - SEE HOUSELIGHT LIGHTING CIRCUIT SCHEDULE FOR DETAILS AND CIRCUIT LOCATION.
5. COORDINATE POSSIBLE TRANSFORMER AND BALLAST REQUIREMENTS AND LOCATIONS FOR HOUSELIGHT, SEATLIGHT, STEP LIGHT AND SAFETY LIGHT LOADS.
6. TERMINATE ALL FIVE PINS OF EACH DMX INPUT AND OUTPUT.
7. PROVIDE PROPER AMOUNTS OF CABLE SLACK AFTER TERMINATION FOR FUTURE UPGRADE OF LIGHTING SYSTEM.
8. COORDINATE EMERGENCY LIGHTING CIRCUITING.

DEVICE SIGNAL FLOW DETAIL



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WJHW

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

THEATRICAL LIGHTING CONTROL RISER

SHEET NUMBER

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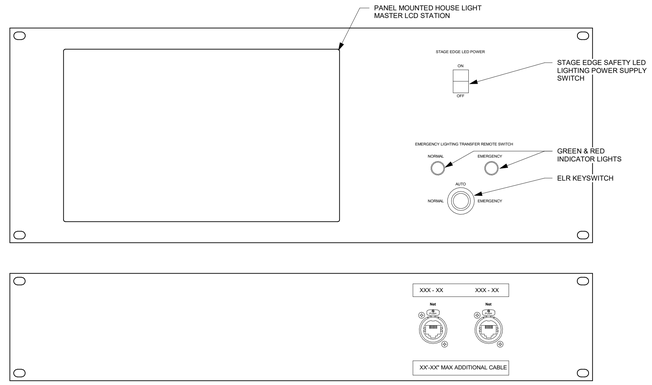
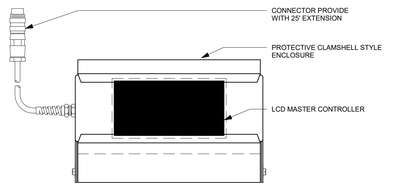
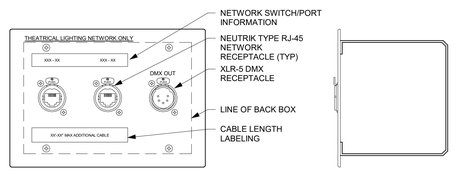


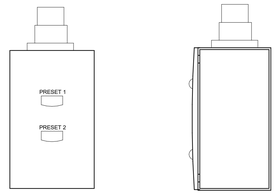
6" = 1'-0" STAGE MANAGERS PANEL (SMP) (WITHIN A/V RACK) 11



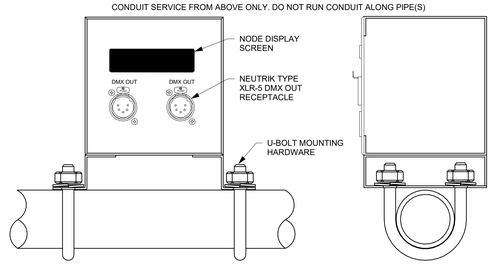
6" = 1'-0" PORTABLE HLM (AUDITORIUM) 10



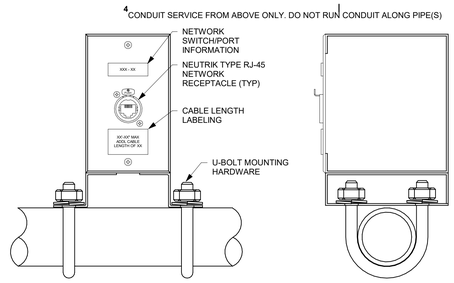
6" = 1'-0" CR3 (WALL RECESSED) (BLACK BOX) 9



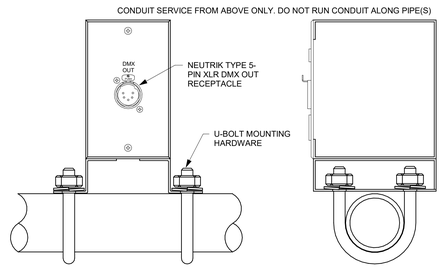
6" = 1'-0" HL2 (SURFACE MOUNTED) (AUDITORIUM) 8



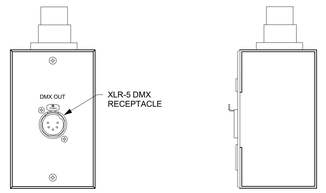
6" = 1'-0" NN2 (PIPE MOUNTED) 7



6" = 1'-0" NET (PIPE MOUNTED) 6



6" = 1'-0" DMX (PIPE MOUNTED) 5



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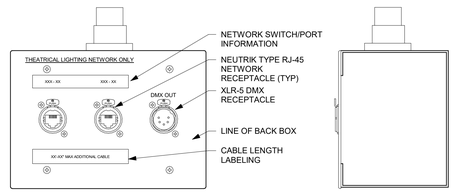

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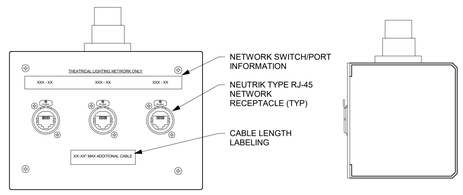

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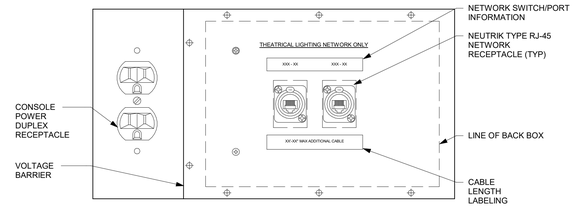
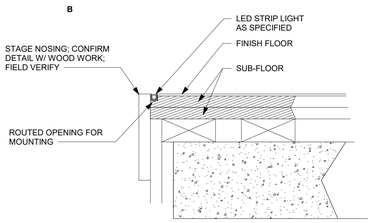
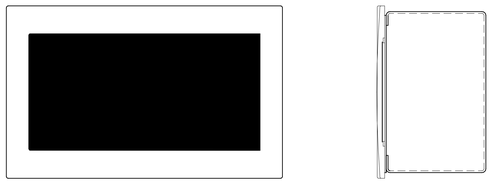


6" = 1'-0" CRS (CROSS AISLE FLOOR POCKET) (COORDINATE WITH A/V) 1



3" = 1'-0" ADVISORY STAGE EDGE SAFETY LIGHT 13



6" = 1'-0" HLM (WALL RECESSED) (BLACK BOX) 12

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FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2023

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd, Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

CONTROL DETAILS

SHEET NUMBER

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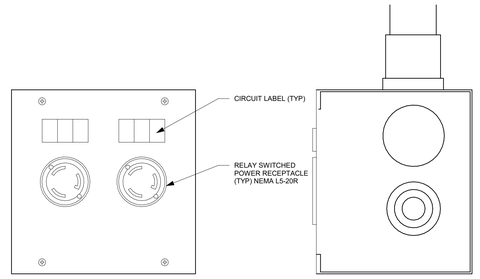
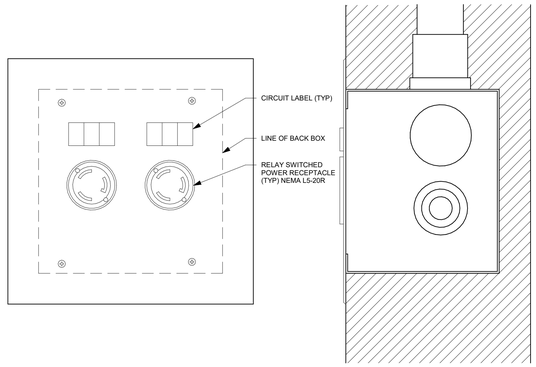
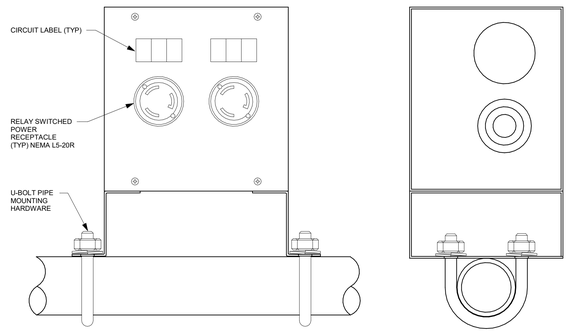


6" = 1'-0" WB (SURFACE MOUNTED) (AUDITORIUM) 3



6" = 1'-0" WB (WALL RECESSED) (BLACK BOX) 5

ALL CONDUIT MUST COME DOWN FROM ABOVE AND MAY NOT BE RUN ALONG THE PIPE BATTEN



6" = 1'-0" PB (PIPE MOUNTED - BLACK BOX) 2

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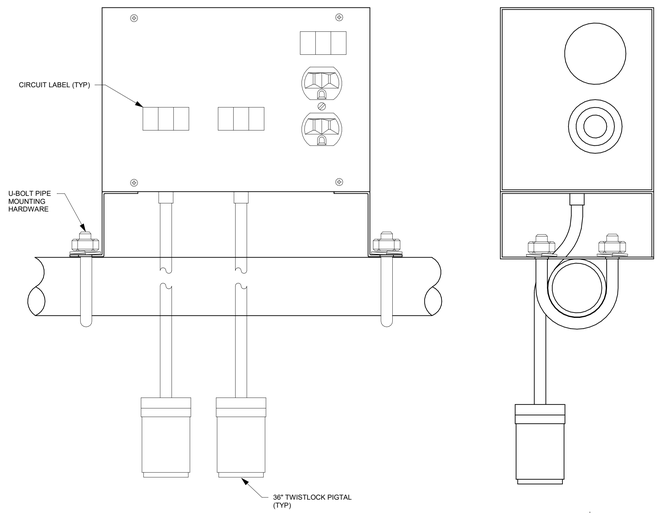
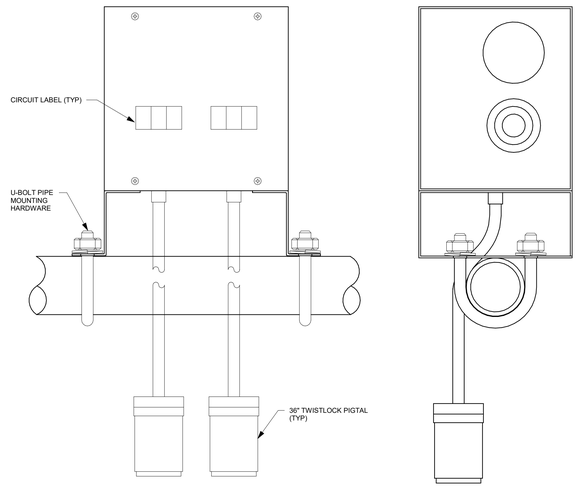


6" = 1'-0" PB3 (PIPE MOUNTED) (AUDITORIUM) 4

ALL CONDUIT MUST COME DOWN FROM ABOVE AND MAY NOT BE RUN ALONG THE PIPE BATTEN



6" = 1'-0" PB (PIPE MOUNTED) (AUDITORIUM) 1

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KIRKSEY PROJECT NO. 2023306

KEY PLAN

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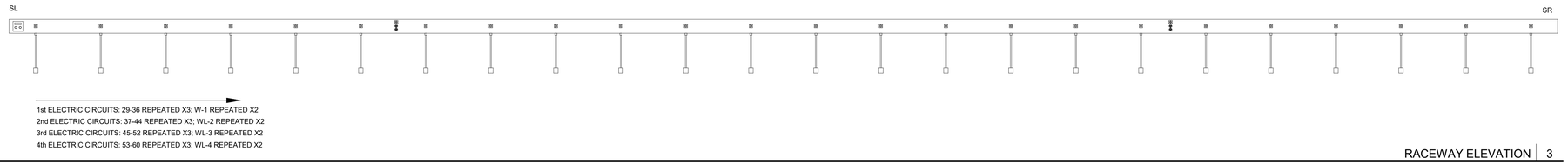
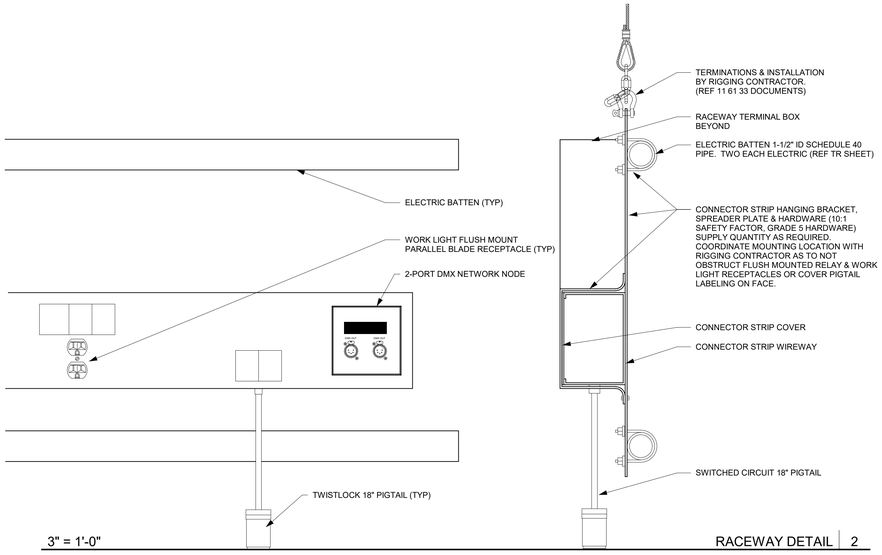


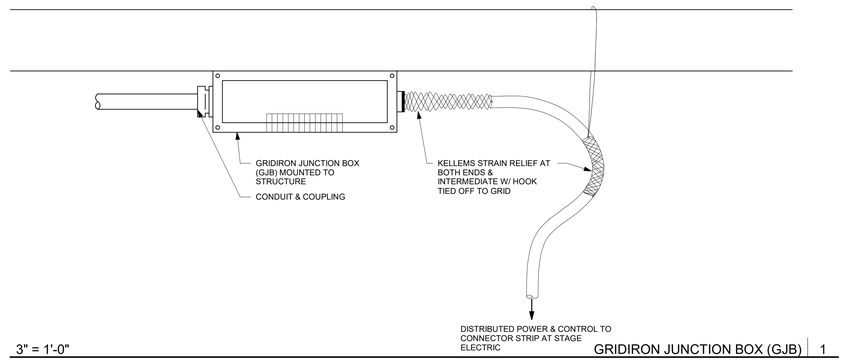
1/2" = 1'-0"

RACEWAY ELEVATION | 3



3" = 1'-0"

RACEWAY DETAIL | 2



3" = 1'-0"

GRIDIRON JUNCTION BOX (GJB) | 1

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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
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

RACEWAY (CONCEALED OR EXPOSED)

RACEWAY BELOW FLOOR SLAB OR GRADE

J — J-HOOKS ON 5' CENTERS

HOME RUN

CONDUIT STUB TO ABOVE ACCESSIBLE CEILING WITHIN AREA INDICATED

CABLE TRAY

DESTINATION
(2) 1" C
CONDUIT
CONDUIT SIZE
NUMBER OF CONDUITS

RIGGING NOTES

GENERAL INSTALLATION PRACTICE

THEATER STAGES, AUDIENCE CHAMBERS, STUDIOS, AND PERFORMANCE PLATFORMS ARE CONSIDERED OVERHEAD LIFTING AND RIGGING APPLICATIONS; ONLY GRADED HARDWARE AND FASTENERS SHALL BE PERMITTED WITH APPROVED ASSEMBLIES IN THE LOAD PATH FOR ENTERTAINMENT RIGGING APPLICATIONS; HARDWARE SHALL BE OF TRACABLE US MANUFACTURE.

EFFICIENCY RATING OF THE WIRE ROPE ATTACHMENTS AND TERMINATIONS SHALL ACHIEVE MAXIMUM RATING, AT 100 PERCENT. THE FOLLOWING SHALL NOT BE USED: LESSER METHODS USING GENERIC OR MALLEABLE WIRE ROPE CABLE CLIPS; ALUMINUM SWAGE FITTINGS. ATTACHMENTS AND TERMINATIONS WHERE SWAGE FITTINGS ARE USED SHALL BE INSTALLED TO MANUFACTURER SPECIFICATIONS AND INDIVIDUALLY TESTED VIA GAUGE APPROPRIATE TO THE SWAGE METHOD USED.

IN ADDITION ALL TOOLS FOR CRIMPING NICOPRESS-TYPE FITTINGS MUST BE ADJUSTABLE, AND RECENTLY ALIGNED AND CALIBRATED. ALL USERS OF THE TOOL MUST BE TRAINED IN THE FOLLOWING:

A TOOL CALIBRATION AND INDIVIDUAL CRIMP PROVING VIA GAUGE
B PROPER CRIMPING PRACTICES AND IDENTIFICATION OF INCORRECT METHODS
C METHODS TO ACHIEVE 100 PER CENT EFFICIENCY OF ATTACHMENT
D DOCUMENTED MEASUREMENT AND INSPECTION OF FINISHED WORK

GENERAL RIGGING STANDARDS

THE FOLLOWING GENERAL RIGGING STANDARDS ARE MINIMUM DESIGN STANDARDS AND REQUIREMENTS UNLESS MODIFIED BY OTHER SECTIONS IN THE DRAWINGS OR SPECIFICATIONS. ALL CODES BY GOVERNING BODIES TAKE PRECEDENCE OVER DESIGN FACTORS REFLECTED IN THESE DRAWINGS AND SPECIFICATIONS:

1. ALL MATERIALS USED IN THIS PROJECT WILL BE NEW AND UNUSED. REFURBISHED OR USED EQUIPMENT IS PROHIBITED.

2. ALL INCIDENTAL RIGGING HARDWARE INCLUDING TURNBUCKLES, CLIPS, TRACKS, CHAINS, ETC., WILL BE FURNISHED PLATED OR PAINTED. WIRE ROPE WILL BE GALVANIZED. FASTENERS, CHAIN, AND OTHER MISCELLANEOUS HARDWARE WILL BE EITHER CADMIUM OR ZINC PLATED. FORGED SHACKLES OR OTHER ITEMS, HAVING FACTORY PAINTED RED PINS, OR MATCHING INDIVIDUALLY NUMBERED PARTS SHALL NOT BE ALTERED, THEREBY REDUCING THEIR TRACEABILITY VIA MANUFACTURERS LOGS.

3. PIPE BATTENS WILL BE CONSTRUCTED OF NEW ASTM A53/A 1-1/2" NOMINAL I.D. SCHEDULE 40 PLAIN END STEEL PIPE. BATTENS EXCEEDING ONE STANDARD PIPE LENGTH WILL BE JOINED USING AN INTERNAL SPLICING SLEEVE. THREADED COUPLERS ARE NOT PERMITTED. ALL BATTENS WILL BE FINISHED IN A CORROSION RESISTANT BLACK PAINT.

4. PIPE BATTEN SPLICE SLEEVES WILL BE A MINIMUM OF 24" IN LENGTH WITH A MINIMUM OF 12" EXTENDING INTO EACH PIPE BATTEN AND WILL HAVE THE SAME OVERALL CAPACITY, DEFLECTION, AND STRENGTH AS THE PIPE BATTENS BEING JOINED. SLEEVES WILL BE MACHINED TO A DIAMETER, WHICH WILL CREATE A SNUG FIT WITHIN THE PIPE BATTENS. SLEEVES WILL MAINTAIN, AS A MINIMUM, THE SAME WALL THICKNESS AS THE PIPE BATTENS BEING JOINED. SPLICING SLEEVES WILL BE ATTACHED TO THE PIPE BATTEN IN AT LEAST TWO LOCATIONS AT RIGHT ANGLES ON EACH SIDE OF JOINT WITH THE USE OF PINS OR BOLTS AND WELDED. DEBURR ALL EXPOSED SURFACES. EACH END OF THE PIPE BATTEN WILL BE CAPPED WITH, SOFT RUBBER PROTECTIVE COVERS.

5. PIPE BATTENS WILL BE EQUIPPED WITH ONLY GRADE 5 OR GREATER HARDWARE WITH SELF-LOCKING FASTENERS.

6. ALL LIFT LINES WILL BE CONTINUOUS LENGTHS, FREE OF SPLICES. WIRE ROPE SHALL HAVE THIMBLES IN ALL EYES. MINIMUM OF ¼" 7X19 WIRE ROPE SHALL BE USED AS LIFTING LINES UNLESS SPECIFIED OTHERWISE. WHERE THE LIFTED LOAD REQUIRES LARGER DIAMETER WIRE ROPE IN ORDER TO MAINTAIN THE SAFETY FACTOR, THE LARGER DIAMETER WIRE ROPE SHALL BE PROVIDED.

7. ALL SWAGING WILL BE PERFORMED AND WIRE ROPE CLIPS INSTALLED IN ACCORDANCE WITH MANUFACTURERS STANDARDS.

8. FLEET ANGLE OF ALL WIRE ROPE TO SHEAVE(S), IDLER(S), AND OR HEAD-BLOCK(S) SHALL NOT EXCEED (1-1/2) ONE AND ONE HALF DEGREES OFF CENTER.

9. TRIM CHAINS WILL BE CONSTRUCTED OF SPECIALTY THEATRICAL ALLOY OR NACM GRADE 80, 1/4" OR LARGER, SUFFICIENTLY LONG ENOUGH TO WRAP ONE AND ONE-HALF TIMES AROUND THE PIPE BATTEN AND ANY LINK ALONG THE RETURN SIDE OF THE CHAIN FOR ADJUSTMENT. CHAIN SHALL BE RATED BY ITS MANUFACTURER FOR THE INTENDED USE.

10. A DESIGN FACTOR OF (8) EIGHT TO (1) ONE SHALL BE OBSERVED FOR ALL ITEMS SUSPENDED ABOVE THE HEADS OF PERFORMERS, THE PUBLIC OR EMPLOYEES IN AND AROUND THE PERFORMANCE SPACE.

11. THEATRE RIGGING CONTRACTOR SHALL PROVIDE TRAINING OF THE OWNER, OWNER'S REPRESENTATIVES, EMPLOYEES, OR OTHERS DESIGNATED BY THE OWNER. TRAINING CAN ONLY BE CONSIDERED COMPLETE WHEN SIGNED, AND DATED DOCUMENTATION OF THE TRAINING SESSION, INSTRUCTOR QUALIFICATION, AND RETRACEABLE PAPERWORK PATH IS ON FILE BY CONTRACTOR AND FACILITY EMPLOYER. DATED, SIGNED, AND REGULARLY SCHEDULED TOOL ALIGNMENT AND REPLACEMENT SCHEDULE MUST ALSO BE INCLUDED IN THE DOCUMENTATION.

GENERAL CONDITIONS

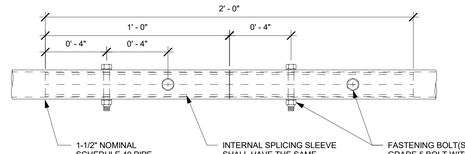
FOLLOW ALL CURRENT OSHA, STATE, LOCAL CODES, AND PRACTICES INCLUDING THOSE ESTABLISHED BY PLASA/ESTA AND OTHER APPLICABLE ORGANIZATIONS. THESE STANDARDS REFLECT COMMON INDUSTRY PRACTICES. WHILE VALID EXCEPTIONS MAY ARISE, FOLLOW THESE PRACTICES, EXCEPT AS NOTED OR SPECIFIED.

WJHW PROVIDES DESIGN CONCEPT DRAWINGS ONLY AND WHILE THESE SHEETS MAY SHOW STEEL IN PARTICULAR SHAPES AND SIZES, ONLY THE PROJECT ENGINEER IF RECORD SHALL SIZE SPECIFIC STEEL ELEMENTS. ALL STEEL SHOWN IS FOR REFERENCE ONLY AND IS INTENDED TO CONVEY THE DESIGN AND LAYOUT OF MEMBERS SUPPORTING EQUIPMENT SPECIFIED.

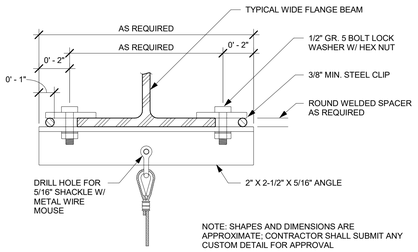
CONDUIT AND PATHWAY NOTES

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 ¾ 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.

PIPE SPLICE METHOD - BATTENS

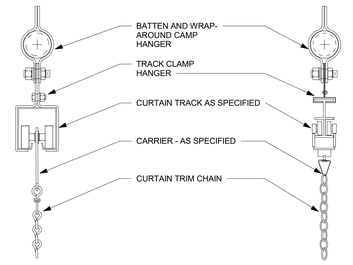


BEAM CLAMP

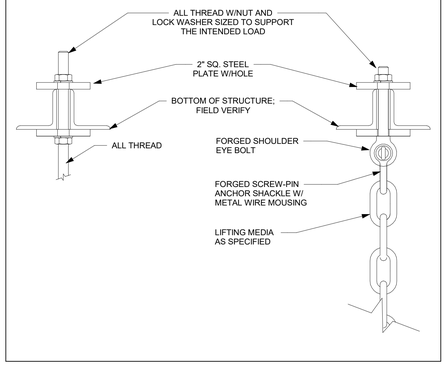


NOTE: SHAPES AND DIMENSIONS ARE APPROXIMATE; CONTRACTOR SHALL SUBMIT ANY CUSTOM DETAIL FOR APPROVAL

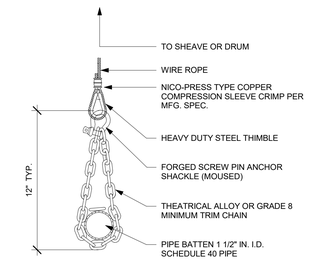
TRACK HANGING METHOD - BATTENS



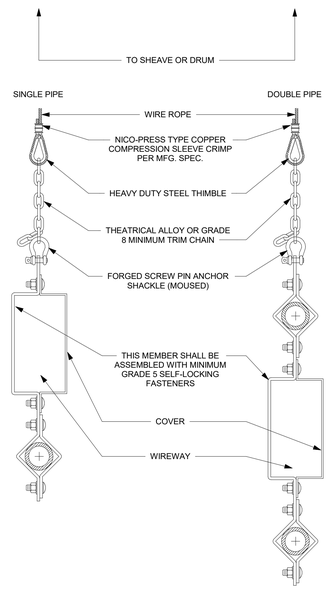
CONNECTION METHODS TO STRUCTURE



PIPE BATTEN HANGING - LINESET



STAGE ELECTRIC HANGING DETAIL



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△	DATE	ISSUE
B	03/21/2025	100% DESIGN DEVELOPMENT
C	06/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND

PROJECT NAME

WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

GENERAL NOTES AND LEGENDS

SHEET NUMBER

TR0.00

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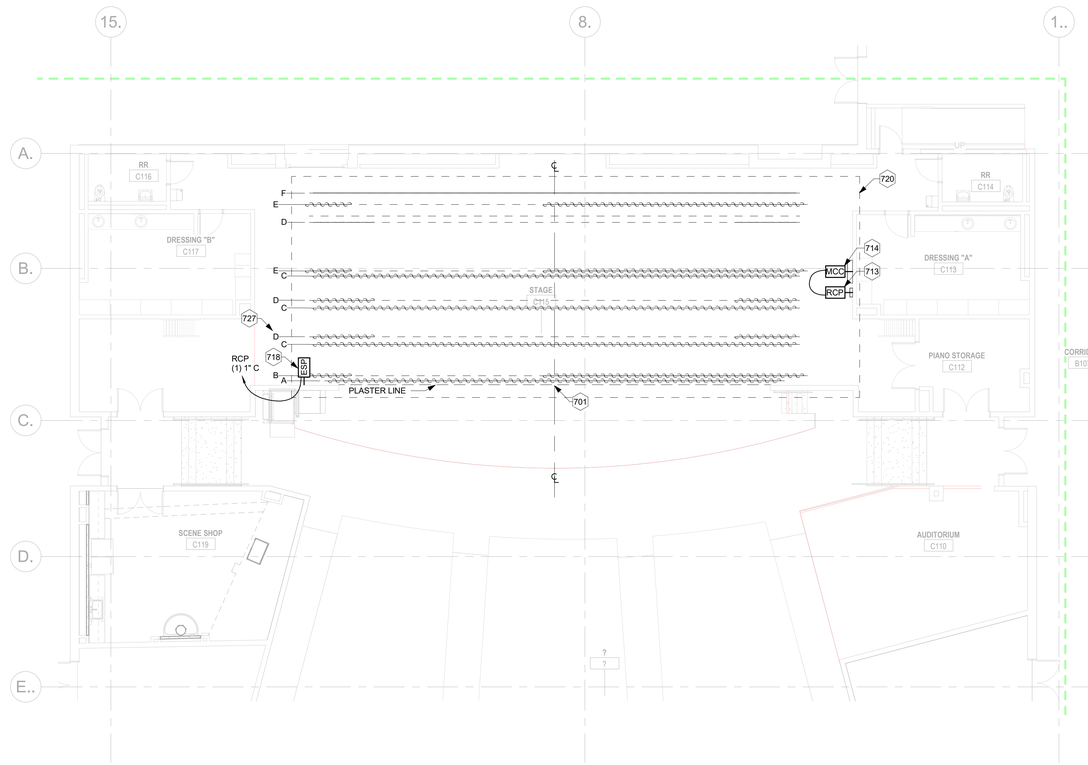
DRAPERY SCHEDULE

Drapery ID	Description	Location	Quantity	Size	Fabric Type	Color	Weight	Fullness	Side Hem	Bottom	Comments
A	VALANCE	STAGE	1	60'-0" W x 5'-0" H	IFR VELOUR	CORN FLOWER; by ARCHITECT	25 oz	50%	4-INCH	CHAIN	HANG DIRECTLY FROM BATTEN
B	MAIN DRAPE	STAGE	(2) MATCHING PANELS	35'-0" W x 20'-0" H	IFR VELOUR	CORN FLOWER; by ARCHITECT	25 oz	50%	FABRIC HALF-WIDTH LEADING EDGE	CHAIN	HANG FROM NEW BI-PARTING TRAVELER TRACK HARDWARE; 3'-0" CL OVERLAP, PULL SL
C	BORDERS	STAGE	3	62'-0" W x 8'-0" H	IFR VELOUR	BLACK	25 oz	50%	4-INCH	CHAIN	HANG DIRECTION FROM BATTEN
D	LEGS	STAGE	6	10'-0" W x 20'-0" H	IFR VELOUR	BLACK	25 oz	50%	12-INCH	CHAIN	HANG FROM 12ft LONG WALK-ALONG TRAVELER TRACK HARDWARE
E	STAGE TRAVELERS	STAGE	(4) MATCHING PANELS	35'-0" W x 20'-0" H	IFR VELOUR	BLACK	25 oz	50%	FABRIC HALF-WIDTH LEADING EDGE	CHAIN	HANG FROM NEW BI-PARTING TRAVELER TRACK HARDWARE; 3'-0" CL OVERLAP, PULL SL
F	CYCLORAMA	STAGE	1	62'-0" W x 22'-0" H	FR MUSLIN	BLEACHED WHITE	HEAVY	FLAT	2-INCH	PIPE	PROVIDE PIPE POCKET ON BACK AND NEW PIPE ALONG ENTIRE WIDTH; GROMMETS BOTTOM CORNERS
M	MASKING	BLACK BOX	8	15'-0" W x 16'-6" H	IFR VELOUR	BLACK	20oz	50%	12-INCH	CHAIN	HANG FROM CONTINUOUS WALK-ALONG TRACK HARDWARE



KEYNOTES

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
713	ALTERNATIVE: RCP: RIGGING CONTROL PANEL
714	ALTERNATIVE: MCC: MOTOR CONTROL CABINET
718	ALTERNATIVE: ESP: RIGGING CONTROL REMOTE E-STOP DEVICE
720	REMOVE AND DISPOSE OF ALL STAGE DRAPERY AND TRACK; PROVIDE NEW DRAPERY AND TRACK AS SPECIFIED
727	DRAPERY ID, TYP.

1/8" = 1'-0"

TR_LEVEL 1 FLOOR PLAN - AREA B2. | 1

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FORT BEND BOND
INDEPENDENT SCHOOL DISTRICT 2023

PROJECT NAME

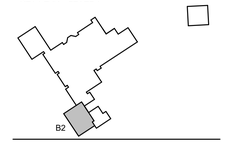
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B2

SHEET NUMBER

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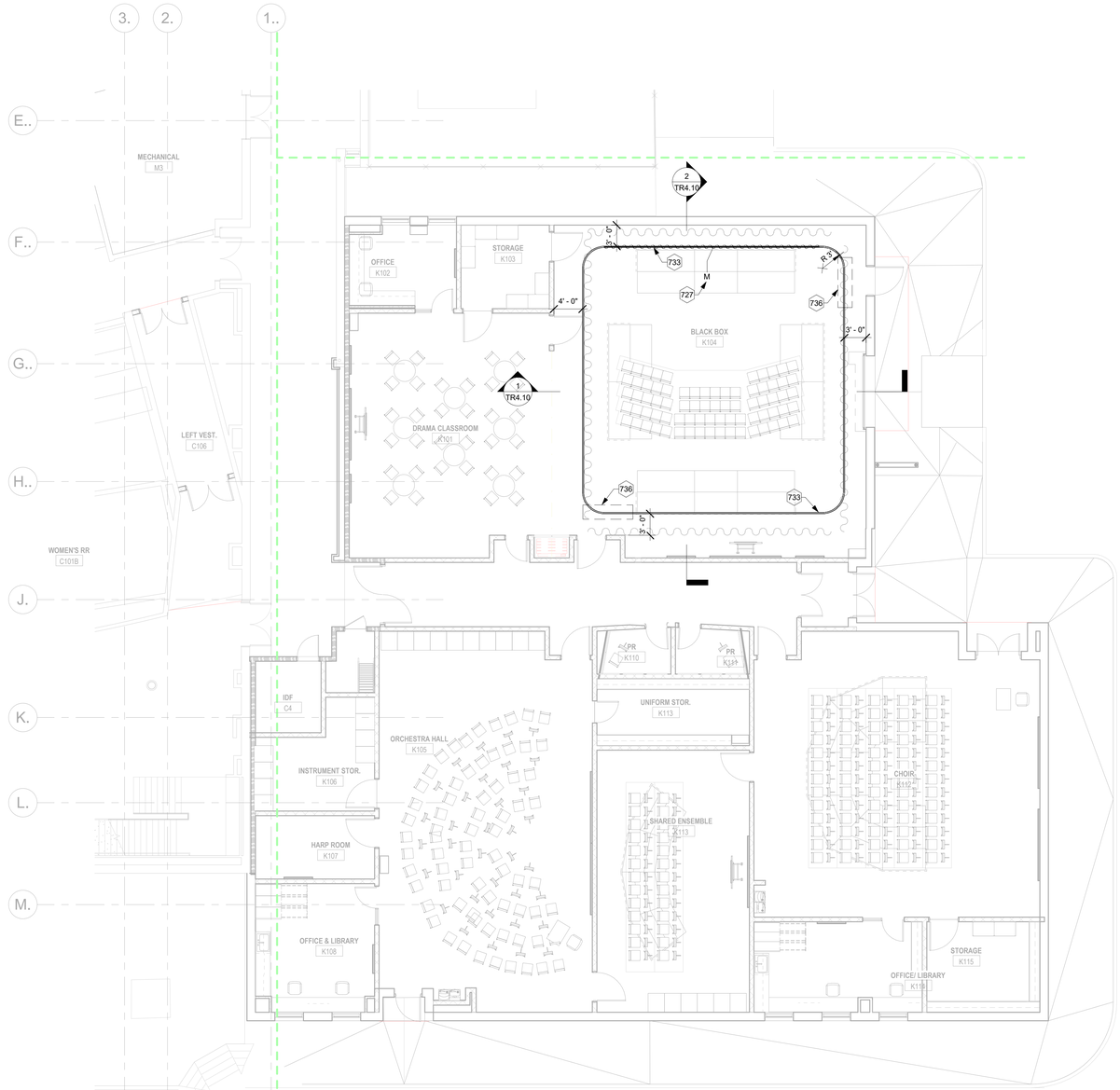

KEYNOTES

727	DRAPERY ID, TYP.
733	BLACK CURTAIN PANELS ON TRACK SUSPENDED FROM PIPE GRID; SEE DRAPERY SCHEDULE FOR DETAILS; SEE T0.00 FOR MOUNTING DETAIL
736	PROVIDE DRAPERY STOPS IN TRAVELER TRACK; SHALL PREVENT DRAPERY FROM BLOCKING 'EXIT' SIGNS AT DOORWAY

1/8" = 1'-0"

TR_LEVEL 1 FLOOR PLAN - AREA B3 | A4

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	DATE	ISSUE
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND BOND INDEPENDENT SCHOOL DISTRICT

PROJECT NAME

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PROJECT ADDRESS

16301 Chimney Rock Rd,
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KIRKSEY PROJECT NO. 2023306

KEY PLAN

SHEET TITLE

LEVEL 1 FLOOR PLAN - AREA B3

SHEET NUMBER

TR2.33

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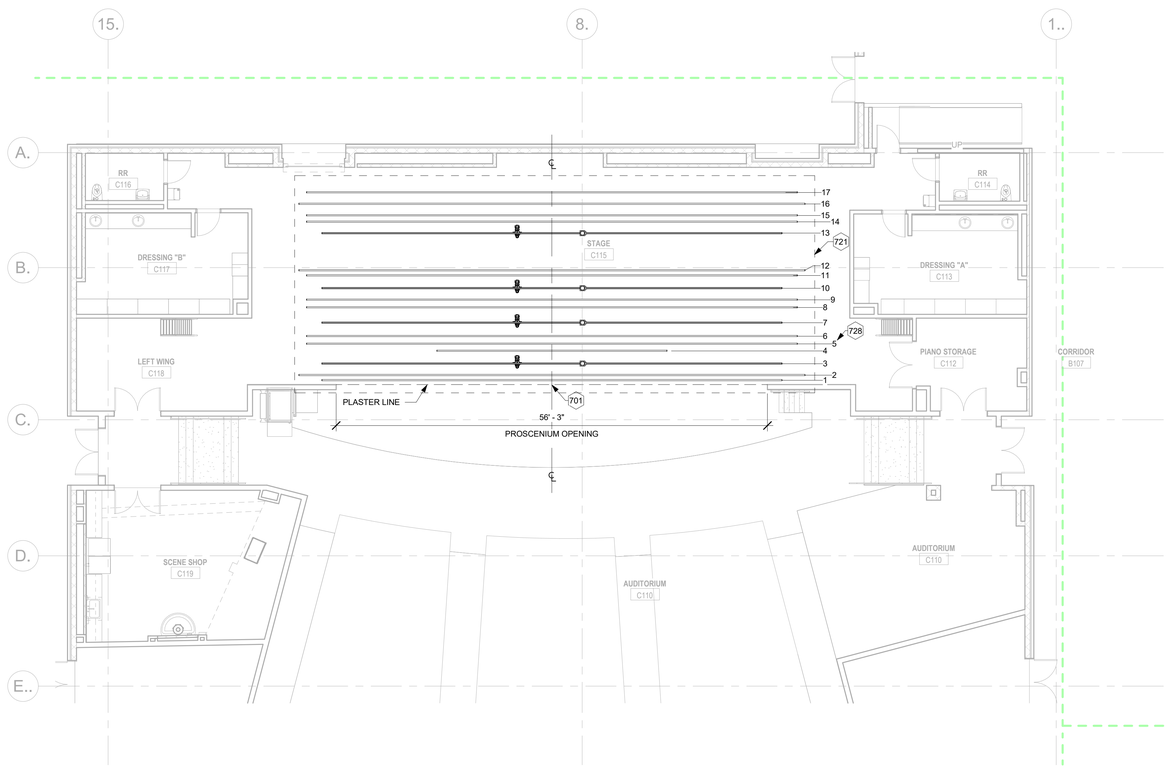
LINESET SCHEDULE - DIMENSIONS FROM DATUM

Lineset ID	Description	Offset	Capacity	Batten Length	BASE/ALTERNATIVE	Class	Hoist Mount	Comments
1	VALANCE	0' - 6"	500	60' - 0"	BASE	DEAD HUNG	--	INSPECT AND REUSE EXISTING BATTEN & HARDWARE
2	MAIN DRAPE	1' - 2"	1000	66' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN: PROVIDE NEW BI-PARTING TRAVELER TRACK WITH 3'-0" CL OVERLAP; PULL ON SL
3	1st ELECTRIC	2' - 8"	2000	60' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATE: VIF EXISTING MOUNTING CONDITIONS; PROVIDE WITH EXISTING DOUBLE BATTEN AND CABLE MANAGEMENT; PROVIDE NEW HOIST/CONTROLS, ref. SPECIFICATION
4	SCREEN	4' - 4"	500	30' - 0"	BASE	DEAD HUNG	--	INSPECT EXISTING RIGGING HARDWARE; ADJUST LOCATION UP-STAGE TO CLEAR 1ST ELECTRIC FIXTURES
5	BORDER	5' - 3"	500	64' - 0"	BASE	DEAD HUNG	--	INSPECT AND REUSE EXISTING BATTEN & HARDWARE
6	LEGS	6' - 3"	500	64' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN; PROVIDE WITH NEW 12'-0" LONG WALK-ALONG TRACK AT EACH END OF BATTEN
7	2nd ELECTRIC	8' - 0"	2000	60' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATE: VIF EXISTING MOUNTING CONDITIONS; PROVIDE WITH EXISTING DOUBLE BATTEN AND CABLE MANAGEMENT; PROVIDE NEW HOIST/CONTROLS, ref. SPECIFICATION
8	BORDER	10' - 0"	500	64' - 0"	BASE	DEAD HUNG	--	INSPECT AND REUSE EXISTING BATTEN & HARDWARE
9	LEGS	11' - 0"	500	64' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN; PROVIDE WITH NEW 12'-0" LONG WALK-ALONG TRACK AT EACH END OF BATTEN
10	3rd ELECTRIC	12' - 6"	2000	60' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATE: VIF EXISTING MOUNTING CONDITIONS; PROVIDE WITH EXISTING DOUBLE BATTEN AND CABLE MANAGEMENT; PROVIDE NEW HOIST/CONTROLS, ref. SPECIFICATION
11	BORDER	14' - 2"	500	64' - 0"	BASE	DEAD HUNG	--	INSPECT AND REUSE EXISTING BATTEN & HARDWARE
12	MID-STAGE TRAVELER	14' - 10"	1000	66' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN; PROVIDE NEW BI-PARTING TRAVELER TRACK WITH 3'-0" CL OVERLAP; PULL ON SL
13	4th ELECTRIC	19' - 8"	2000	60' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATE: VIF EXISTING MOUNTING CONDITIONS; PROVIDE WITH EXISTING DOUBLE BATTEN AND CABLE MANAGEMENT; PROVIDE NEW HOIST/CONTROLS, ref. SPECIFICATION
14	LEGS	21' - 2"	500	64' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN; PROVIDE WITH NEW 12'-0" LONG WALK-ALONG TRACK AT EACH END OF BATTEN
15	UTILITY	22' - 0"	1200	64' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATIVE: INSPECT AND REUSE EXISTING BATTEN; NEW HOIST & CONTROLS; ref SPECIFICATION
16	UPSTAGE TRAVELER	23' - 6"	1000	66' - 0"	BASE	DEAD HUNG	--	PROVIDE NEW BATTEN; PROVIDE NEW BI-PARTING TRAVELER TRACK WITH 3'-0" CL OVERLAP; PULL ON SL
17	CYCLORAMA	25' - 0"	1200	64' - 0"	ALTERNATIVE	HOIST	STRUCTURE	ALTERNATIVE: INSPECT AND REUSE EXISTING BATTEN; NEW HOIST & CONTROLS; ref SPECIFICATION



1/8" = 1'-0"

TR_LEVEL 2 FLOOR PLAN - AREA B2. 1

KEYNOTES

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721	ALTERNATE: REMOVE AND DISPOSE OF ALL STAGE HOISTS AND CONTROLS, PROVIDE (6) NEW STAGE HOISTS AND CONTROLS AS SCHEDULED AND SPECIFIED
728	LINESET ID, TYP.

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C	08/06/2025	50% CONSTRUCTION DOCUMENTS
D	08/20/2025	90% CONSTRUCTION DOCUMENTS
E	09/16/2025	ISSUE FOR BID AND PERMIT

FORT BEND INDEPENDENT SCHOOL DISTRICT BOND 2025

PROJECT NAME

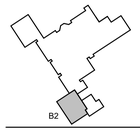
WILLOWRIDGE HIGH SCHOOL FINE ARTS ADDITION AND RENOVATION

PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 FLOOR PLAN - AREA B2

SHEET NUMBER

TR2.36

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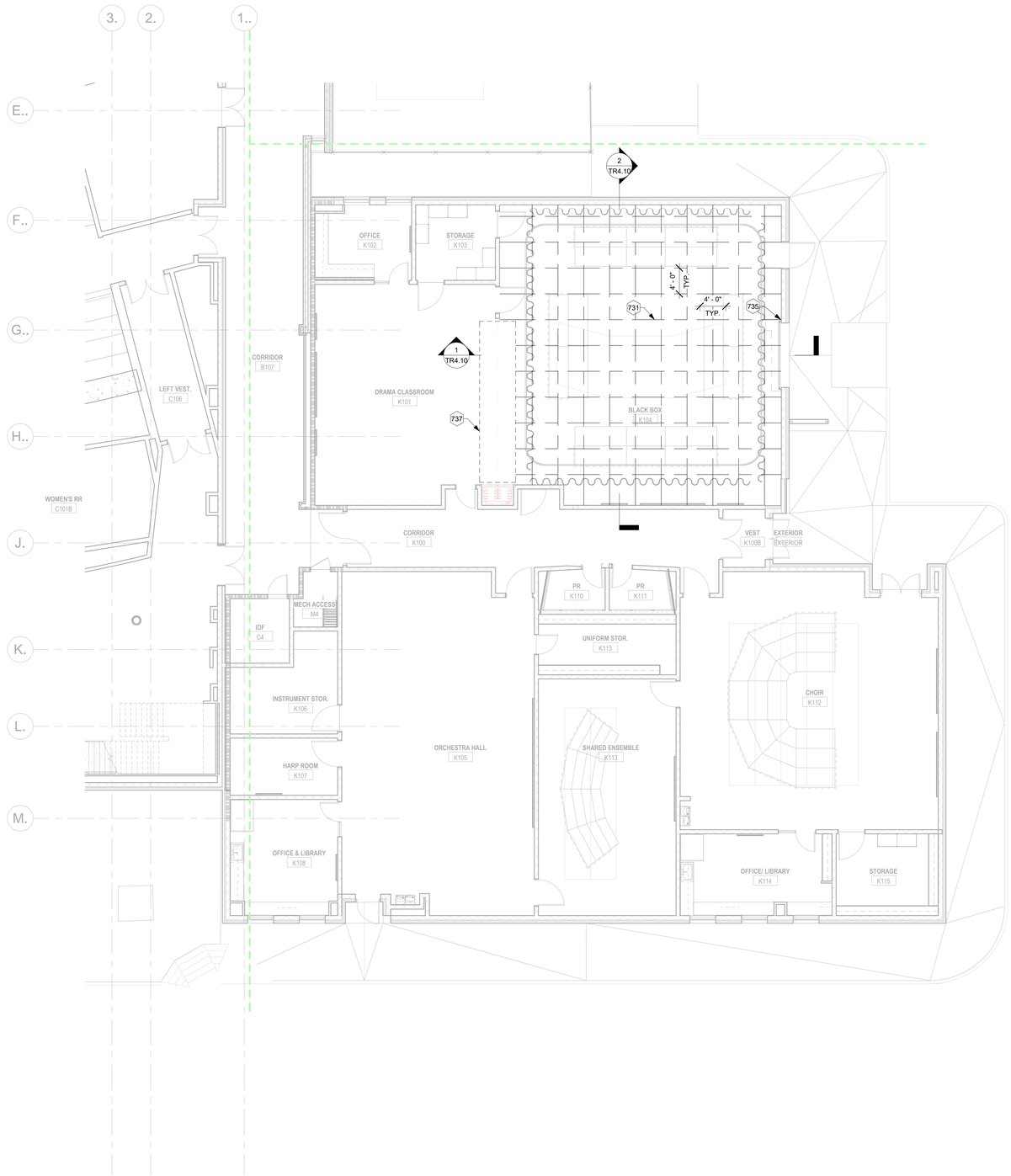

KEYNOTES

731	PIPE GRID ASSEMBLED WITH 1-1/2" SCH40 STEEL PIPE. LIVE LOAD NOT TO EXCEED 25LB/ LF
735	LATERAL STABILIZING CONNECTION TO BUILDING STRUCTURE AS NEEDED; TYP.
737	ROOM DIVIDER SYSTEM OPERATING SPACE; SUSPENDED FROM ABOVE; VIF SPACE REQUIRED FOR DEPLOYMENT ADJACENT TO PIPE GRID

1/8" = 1'-0"

TR_LEVEL 2 FLOOR PLAN - AREA B3 | 1

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

713 850 9600

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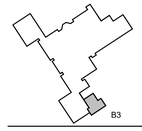
KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 2



SHEET TITLE

LEVEL 2 FLOOR PLAN - AREA B3

SHEET NUMBER

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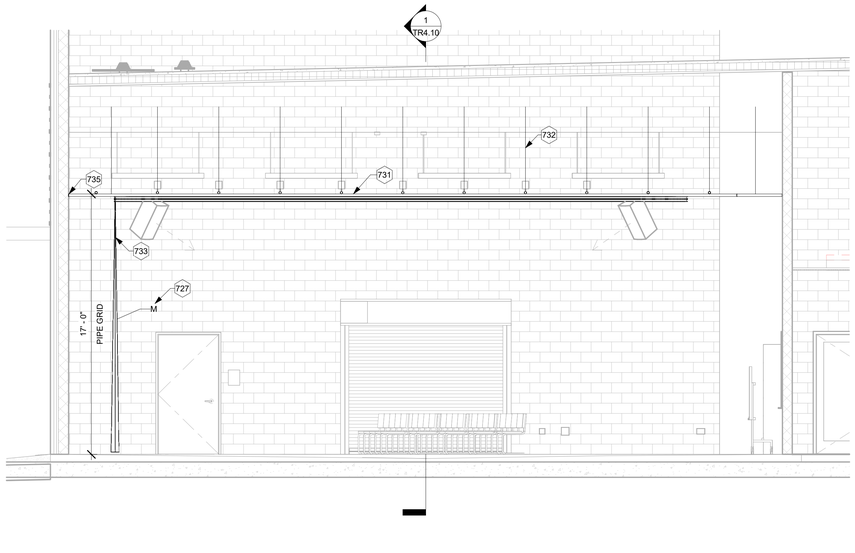
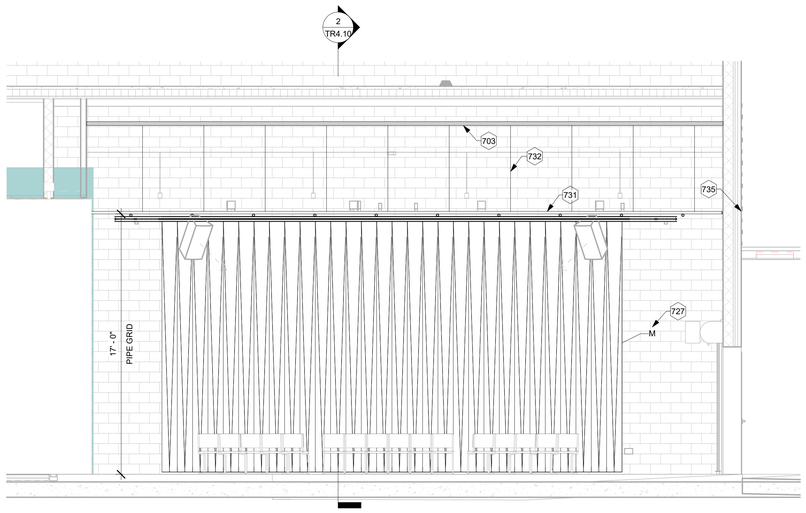


1/4" = 1'-0"

TR_BLACK BOX - SECTION-B | 2



1/4" = 1'-0"

TR_BLACK BOX - SECTION-A | 1

KEYNOTES

703	PROVIDE SUPPLEMENTAL STRUT AS REQUIRED FOR SUPPORT OF RIGGING LOADS, TYP.
727	DRAPERY ID, TYP.
731	PIPE GRID ASSEMBLED WITH 1-1/2" SCH40 STEEL PIPE. LIVE LOAD NOT TO EXCEED 25LB/ LF
732	PIPE GRID SUSPENSION POINT. POINT LOAD ON STRUCTURE NOT TO EXCEED 240#, BASED ON EVENLY DISTRIBUTED LOADING. TYP.
733	BLACK CURTAIN PANELS ON TRACK SUSPENDED FROM PIPE GRID; SEE DRAPERY SCHEDULE FOR DETAILS; SEE T0.00 FOR MOUNTING DETAIL
735	LATERAL STABILIZING CONNECTION TO BUILDING STRUCTURE AS NEEDED; TYP.

Kirksey ARCHITECTURE

Houston + Austin + Dallas

6909 Portwest Drive

Houston Texas 77024

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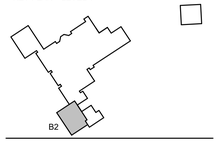
PROJECT ADDRESS

16301 Chimney Rock Rd,
Houston, TX 77053

KIRKSEY PROJECT NO. 2023306

KEY PLAN - LEVEL 1



SHEET TITLE

SECTIONS

SHEET NUMBER

TR4.10

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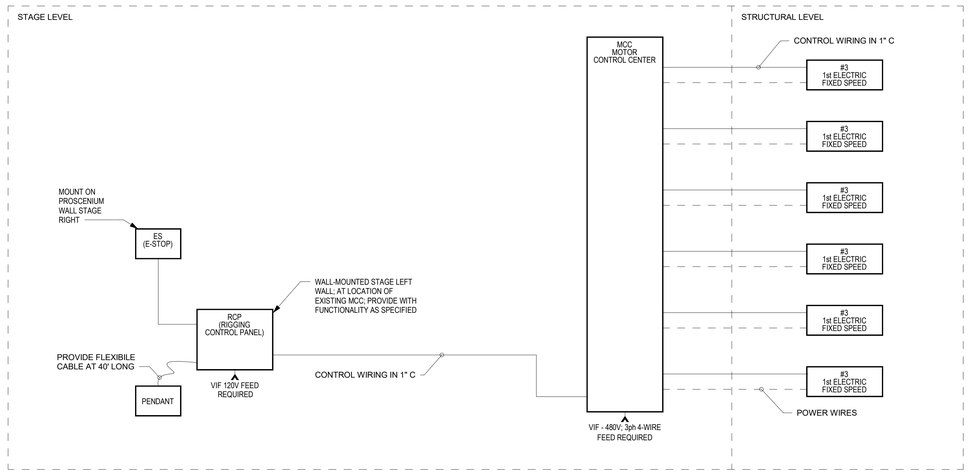

1 17.00 SERIES_RISER DIAGRAMS
12" = 1'-0"

Kirksey
ARCHITECTURE

Houston + Austin + Dallas

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3424 Midcourt Road
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972-934-3700
www.wjhw.com

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Houston, TX 77053

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KEY PLAN

SHEET TITLE

THEATRICAL RIGGING RISER
DIAGRAM

SHEET NUMBER

TR17.01

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