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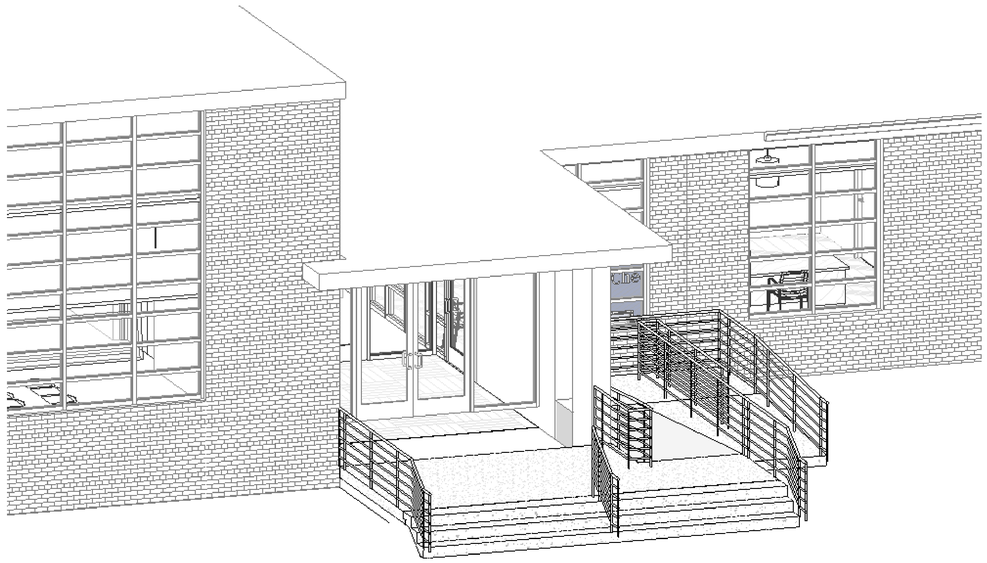
DISD Harry Stone Montessori Academy Renovation Org 212

DISD
4747 Veterans Dr, Dallas, TX
75216

PREPARED FOR:

2020 BOND PROGRAM



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ABBREVIATIONS

SYMBOLS

&	AND
L	ANGLE
@	AT
#	NUMBER / POUND
℄	CENTERLINE
℄	PROPERTY LINE

A

AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONING / AIR CONDITIONER
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT / ADJUSTABLE
AFC	ABOVE FINISH CEILING
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AV	AUDIO VISUAL

B

BC	BOTTOM OF CURB
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM / BENCHMARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF

C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CFM	COLD FORMED METAL / CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CI	CURB INLET
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNSK	COUNTERSUNK
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CRS	COURSE
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER

D

DBL	DOUBLE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (ABOVE GRADE)
ELECT	ELECTRICAL
ELEV	ELEVATION (BUILDING ELEVATION)
ELV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL / EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXPO	EXPOSED
EXIST	EXISTING
EXT	EXTERIOR

F

FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FLG	FLASHING
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED

F (continued)

FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNACE
FURR	FURRING
FWC	FABRIC WALLCOVERING
FHC	FIRE HOSE CABINET

G

GA	GAGE / GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFI	GROUND FAULT INTERRUPT
GFRC	GLASS FIBER REINFORCED CONCRETE
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM WALLBOARD

H

H	HEIGHT / HIGH
HB	HOSE BIB
HC/HDCP	ACCESSIBLE
HOLW	HOLLOW
HDBD	HARDBOARD
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR / HANDRAIL
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER

I

ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JBOX	JUNCTION BOX
JST	JOIST
JT	JOINT

K

KIT	KITCHEN
KO	KNOCKOUT

L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LGTH	LENGTH
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTG	LIGHTING

M

MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	MARBLE TILE
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION

N

N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD

P

PC	PRE-CAST
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PORC	PORCELAIN
POS	POINT OF SALE
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT / PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR / REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE / SEALED CONCRETE
SCHED	SCHEDULE
SD	SMOKE DETECTOR / STORM DRAIN
SECT	SECTION
SHTG	SHEATHING
SHR	SHOWER
SHT	SHEET
SHT'G	SHEATHING
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSG	STRUCTURAL SEALANT GLAZED
SSK	SERVICE SINK
STA	STATION
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SY	SQUARE YARD
SYM	SYMMETRICAL

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CURB
TEL	TELEPHONE
THK	THICK(NESS)
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TS	TUBE STEEL
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO

U

UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL

V

VCT	VINYL COMPOSITION TILE
VB	VAPOR BARRIER / VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING

W

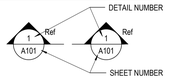
W	WEST / WIDTH
WF	WIDE FLANGE
WI	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WI	WROUGHT IRON
WP	WATERPROOF
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

Y

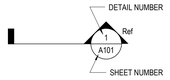
YD	YARD / YARD DRAIN

SYMBOLS LEGEND

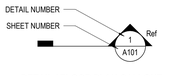
BUILDING SECTION



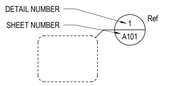
WALL SECTION



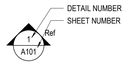
DETAIL SECTION



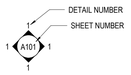
DETAIL / FLOOR PLAN CALLOUT



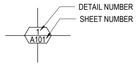
EXTERIOR ELEVATION



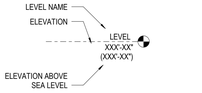
INTERIOR ELEVATION



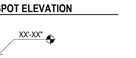
WINDOW / CURTAIN WALL ELEVATION



VERTICAL ELEVATION / LEVEL MARK

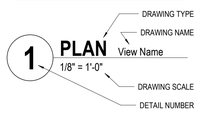


SPOT ELEVATION



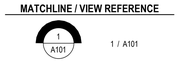
REVISION CLOUD & TAG

VIEW TITLE

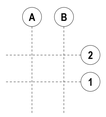


GRAPHIC SCALE

MATCHLINE / VIEW REFERENCE

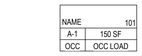


GRIDS HEADS / LINES

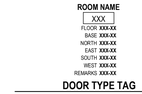


ROOM TAGS

ROOM OCCUPANCY TAG



ROOM FINISH TAG

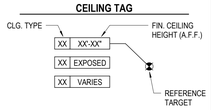


DOOR TYPE TAG

WALL TYPE TAG

WINDOW TYPE TAG

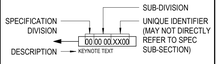
CEILING TAG



CURTAIN PANEL TYPE TAG

CODED NOTE / ACCESSORY TAG

KEYNOTE



FURNITURE / EQUIPMENT TAG

CASEWORK TAG

Cabinet Type

MILLWORK NOTE

NORTH ARROW

AREA TAG

AREA NAME
150 SF

CODE SUMMARY

OWNER:
OWNERS NAME:
OWNERS ADDRESS:
OWNERS PHONE:

DEVELOPER:
DEVELOPERS NAME:
DEVELOPERS ADDRESS:
DEVELOPERS PHONE:

SITE ADDRESS:

SITE ZONING:
SITE AREA:
PARKING REQUIRED:
PARKING SHOWN: X + X HANDICAPPED = X

BUILDING CODES:
DALLAS BUILDING CODE: 2021
DALLAS PLUMBING CODE: 2021
DALLAS MECHANICAL CODE: 2021
NATIONAL ELECTRIC CODE: 2020
INTERNATIONAL FUEL GAS CODE: 2021
INTERNATIONAL ENERGY CONSERVATION CODE: 2021
ICC A117.1-2009 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
ASHRAE 90.1 2021
DALLAS FIRE CODE: 2023
DALLAS TEXAS ZONING CODE
2021 ADA STANDARDS FOR ACCESSIBLE DESIGN
NFPA 101 LIFE SAFETY CODE 2021

BUILDING DATA:
CONSTRUCTION TYPE: II-E
USE GROUP: E

ALLOWABLE HEIGHT:
ACTUAL HEIGHT:

ALLOWABLE AREA SF:
ALLOWABLE AREA INCREASE FOR SPRINKLERS:
ALLOWABLE AREA INCREASE FOR OPEN PERIMETER:
ALLOWABLE FLOOR AREA:
ACTUAL FLOOR AREAS:

FIRE RESISTANCE RATINGS TABLE 602
EXTERIOR WALLS: 0 HR
VERTICAL CIRCULATION: 0 HR
EXIT ACCESS CORRIDORS: 0 HR
STRUCTURE: 0 HR
FLOORS: 0 HR
ROOF: 0 HR

GENERAL NOTES

INDEX OF DRAWINGS

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G000	COVER SHEET - VOLUME 1
G001	DRAWING INDEX - VOLUME 1
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G101	LEVEL 01 - CODE/EGRESS PLAN
G200	LEVEL 01 - WALL TYPES SCHEDULE
G400	LEVEL 01 - FLOOR PLAN - PHASING PLAN
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C002	EXISTING CONDITIONS SITE PLAN
C003	DEMOLITION PLAN
C004	DIMENSION CONTROL PLAN
C005	ON SITE PAVING PLAN
C006	PAVING DETAILS
C007	PAVING DETAILS
C008	PROPOSED GRADING PLAN
C009	PROPOSED UTILITY PLAN
CIVIL: 9	
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S002	GENERAL NOTES
S200	OVERALL FOUNDATION PLAN
S201	PARTIAL FRAMING PLANS
S202	PARTIAL FRAMING PLANS
S203	OVERALL ROOF PLAN
S204	ROOF FRAMING PLANS
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S301	CASED STRAIGHT SHAFT PIERS
S302	TYPICAL FOUNDATION DETAILS
S303	FOUNDATION SECTIONS AND DETAILS
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A101A	LEVEL 01 - FLOOR PLAN - AREA 'A'
A101B	LEVEL 01 - FLOOR PLAN - AREA 'B'
A101C	LEVEL 01 - FLOOR PLAN - AREA 'C'
A101D	LEVEL 01 - FLOOR PLAN - AREA 'D'
A102	LEVEL 02 - FLOOR PLAN - OVERALL
A103	ROOF PLAN - OVERALL
A201	LEVEL 01 - RCP - OVERALL
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A201B	LEVEL 01 - RCP - AREA 'B'
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A801	INTERIOR ELEVATIONS
A820	INTERIOR DETAILS
A830	CEILING DETAILS
A900	FINISH LEGEND
A901	LEVEL 01 - FINISH PLAN - OVERALL
A901A	LEVEL 01 - FINISH PLAN - AREA 'A'
A901B	LEVEL 01 - FINISH PLAN - AREA 'B'
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QF102	KITCHEN TEMPORARY SERVICE LINE PLAN
QF111	FOODSERVICE ELECTRICAL REQUIREMENTS PLAN
QF112	KITCHEN TEMPORARY SERVICE LINE ELECTRICAL REQ. PLAN
QF121	FOODSERVICE PLUMBING REQUIREMENTS PLAN
QF131	FOODSERVICE VENT. & FLOOR DEP. REQUIREMENTS PLAN
QF141	FOODSERVICE ELEVATIONS, SECTIONS & DETAILS
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FIRE PROTECTION: 1	
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P002	PLUMBING FIXTURE SCHEDULE
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P200A	UNDERFLOOR - QUADRANT PLUMBING PLANS - AREA 'A'
P200B	UNDERFLOOR - QUADRANT PLUMBING PLANS - AREA 'B'
P201A	LEVEL 01 - QUADRANT PLUMBING PLANS - AREA 'A'
P202	ROOF LEVEL - QUADRANT PLUMBING PLAN
P301	PLUMBING RISER -GREASEWASTE
P302	PLUMBING RISER -DOMESTIC HOT AND COLD WATER
P401	ENLARGED KITCHEN PLUMBING
P501	PLUMBING DETAILS - GENERAL
P502	PLUMBING DETAILS - GENERAL
P503	PLUMBING DETAILS - EXTERIOR
P504	PLUMBING DETAILS - GREASE
P507	PLUMBING DETAILS - GAS
P601	PLUMBING SCHEDULES
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IDM200A	MECHANICAL DEMOLITION PLAN - AREA 'A'
IDM200B	MECHANICAL DEMOLITION PLAN - AREA 'B'
IDM203	ROOF LEVEL - MECHANICAL DEMOLITION PLAN
M001	MECHANICAL NOTES & NOTES
M101	MECHANICAL SITE PLAN
M201A	LEVEL 01 - MECHANICAL PLAN - AREA 'A'
M201B	LEVEL 01 - MECHANICAL PLAN - AREA 'B'
M203	ROOF LEVEL - MECHANICAL PLAN
M301	MECHANICAL ENLARGED PLAN
M302	MECHANICAL ENLARGED PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS
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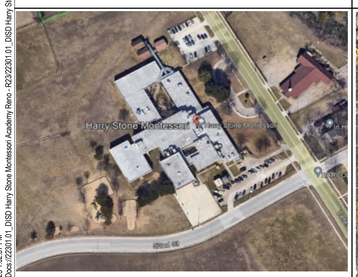
E001	ELECTRICAL NOTES & SYMBOLS
E002	ELECTRICAL NOTES & SYMBOLS
E101	ELECTRICAL SITE PLAN
E201	OVERALL LEVEL 01 - ELECTRICAL PLAN
E202	ROOF LEVEL - QUADRANT ELECTRICAL PLAN
E301A	LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'A'
E301B	LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'B'
E301C	LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'C'
E301D	LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'D'
E302	LEVEL 02 - LIGHTING PLANS
E401	ELECTRICAL ENLARGED PLAN
E402	ELECTRICAL ENLARGED PLAN
E403	ELECTRICAL ENLARGED PLAN -KITCHEN
E501	ELECTRICAL ONE-LINE DIAGRAM
E502	PANEL SCHEDULES
E601	ELECTRICAL DETAILS
E602	ELECTRICAL DETAILS
E701	ELECTRICAL SCHEDULES
ELECTRICAL: 18	
FA001	FIRE ALARM PLACEHOLDER
FIRE ALARM: 1	
AV001	AV PLACEHOLDER
AV: 1	
T000	LEGEND AND NOTES - COMMUNICATIONS
T001	RESPONSIBILITY MATRIX - COMMUNICATIONS
T101B	LEVEL 1 - FLOOR PLAN - AREA B - COMMUNICATIONS
TELECOMMUNICATIONS: 3	
SC000	LEGEND AND NOTES - SECURITY
SC001	RESPONSIBILITY MATRIX - SECURITY
SC101B	LEVEL 1 - FLOOR PLAN - AREA B - SECURITY
SC301	DOOR ELEVATION DETAILS - SECURITY
SC401	GENERAL DETAILS - SECURITY
SECURITY: 5	
Grand total: 121	

VOLUME 2 (CONTINUED)

KEY PLAN

#	DATE	CHANGE DESCRIPTION

AREA MAP



VICINITY MAP

MATERIALS LEGEND

ALUMINUM	GRANULAR FILL
ACOUSTIC CEILING	GYPSUM BOARD
BRICK	INSULATION - BATT
CONCRETE	INSULATION - RIGID
CONCRETE MASONRY	PLYWOOD
CONCRETE (SURFACE)	STEEL
EARTH	WOOD - ROUGH FRAMING
GLASS - LARGE SCALE	WOOD - ROUGH BLOCKING
GLASS - SMALL SCALE	WOOD - FINISHED

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

DRAWING INDEX - VOLUME 1

12.02.2025
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G001
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BUILDING INFORMATION	
TENANT	Harry Stone Montessori Academy
OWNER NAME	DALLAS ISD
OWNER ADDRESS	9400 N Central Expy., Dallas, TX, 75231
OWNER PHONE	
DEVELOPER NAME	Dallas ISD Construction Services
DEVELOPER ADDRESS	9400 N Central Expy, Dallas, TX 75231
DEVELOPER PHONE	972-925-3700
SITE ADDRESS	4747 Veterans Drive Dallas, TX 75216

DESCRIPTION

THIS PROJECT IS A RENOVATION OF THE EXISTING HARRY STONE ACADEMY. NEW WORK INCLUDES A SMALL SECURITY VESTIBULE INSIDE THE MAIN ENTRY OF THE SCHOOL. THE KITCHEN WILL BE EXPANDED INTO THE EXISTING DINING SPACE. THE NEW DINING SPACE WILL BE RELOCATED INTO THE SMALL GYM WHICH WILL BE USED AS A MULTIPURPOSE SPACE. ALL CORRIDORS WILL GET NEW LIGHTING AS A REPAIR/UPGRADE TO LED LIGHTING AND MECHANICAL SYSTEM WILL BE REPLACED AS NEEDED. THE MAIN CORRIDORS WILL HAVE NEW EGRESS DOORS WITH BETTER SECURITY. A NEW ADA RAMP AT THE ENTRY HAS BEEN ADDED FOR ACCESSIBILITY. AN ALTERNATE EXTERIOR LIGHTING OPTION HAS BEEN ADDED FOR THE VISITOR PARKING AND SOME PATCH AND REPAIR FOR THE OTHER PARKING LOT.

CODES
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL FUEL & GAS CODE

SITE INFORMATION	
SITE ZONING	RESIDENTIAL - R7.5(A) - SINGLE FAMILY 7,500 SF DISTRICT
SITE AREA	341,507 SF/408,306 SF FOR ENTIRE LOT SIZE
PARKING REQUIRED	50
PARKING SHOWN	38 IN SOUTH EXISTING LOT + 33 IN WEST EXISTING LOT
HANDICAPPED PARKING	2
TOTAL PARKING	71

GENERAL BUILDING HEIGHTS AND AREAS		
	REQUIREMENTS	SECTION/TABLE
CONSTRUCTION TYPE	II-E	IBC TABLE 603
USE GROUP	E	
ALLOWABLE HEIGHT	75'	TBD
HEIGHT MODIFICATION	N/A	N/A
ACTUAL HEIGHT	14'	
ALLOWABLE AREA	34,000 SF	TABLE 506.2
ALLOWABLE AREA INCREASE FOR SPRINKLERS	TBD	TBD
ALLOWABLE AREA INCREASE FOR OPEN PERIMETER	N/A	N/A
ALLOWABLE FLOOR AREA	N/A	N/A
ACTUAL FLOOR AREA	1957 MAIN BUILDING: 3,048 SF	N/A
	1977 BUILDING AREA: 30,926 SF	
	CURRENT 1ST FLOOR BUILDING AREA: 66,087 SF	
	CURRENT 2ND FLOOR BUILDING AREA: 10,407 SF	

TYPES OF CONSTRUCTION		
	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	II-E	IBC TABLE 603
EXTERIOR BEARING WALLS	0 - HOURS	IBC TABLE 601
EXTERIOR NON-BEARING WALLS	0 - HOURS	IBC TABLE 601
INTERIOR BEARING WALLS	0 - HOURS	IBC TABLE 601
INTERIOR NON-BEARING WALLS	1 - HOURS	IBC TABLE 601
EXTERIOR COLUMNS	0 - HOURS	IBC TABLE 601
INTERIOR COLUMNS	0 - HOURS	IBC TABLE 601
BEAMS, GIRDERS, TRUSSES	0 - HOURS	IBC TABLE 601
FLOORS	0 - HOURS	IBC TABLE 601
ROOF	0 - HOURS	IBC TABLE 601
EXTERIOR WALL OPENINGS	N/A	N/A

KEY PLAN

#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - CODE PLAN

1. TBD
2. TBD
3. TBD
4. TBD

CODED NOTE LEGEND

- (X) TBD
- (X) TBD
- (X) TBD
- (X) TBD

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FEVC	FIRE EXTINGUISHER / VALVE CABINET
FVC	FIRE DEPARTMENT / VALVE CABINET

RATED WALL LEGEND

- NEW NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- NEW 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 1 HOUR FIRE RATED PARTITION TO DECK
- NEW 2 HOUR FIRE RATED PARTITION TO DECK
- NEW 3 HOUR FIRE RATED PARTITION TO DECK
- NEW 4 HOUR FIRE RATED PARTITION TO DECK
- 1HR 1HR EXISTING (1 HOUR) FIRE RESISTANT RATED PARTITION
- 2HR 2HR EXISTING (2 HOUR) FIRE RESISTANT RATED PARTITION

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	XXX

ROOM
NAME 101
OCCUPANCY GROUP — A-1 — 150 SF — ROOM SF
OCCUPANT LOAD — OCC — OCC LOAD — OCCUPANT LOAD FACTOR

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - CODE DATA

REGISTERED ARCHITECT BRIAN J. NOLAN 28917 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
G100
100% CD'S SUBMITTAL

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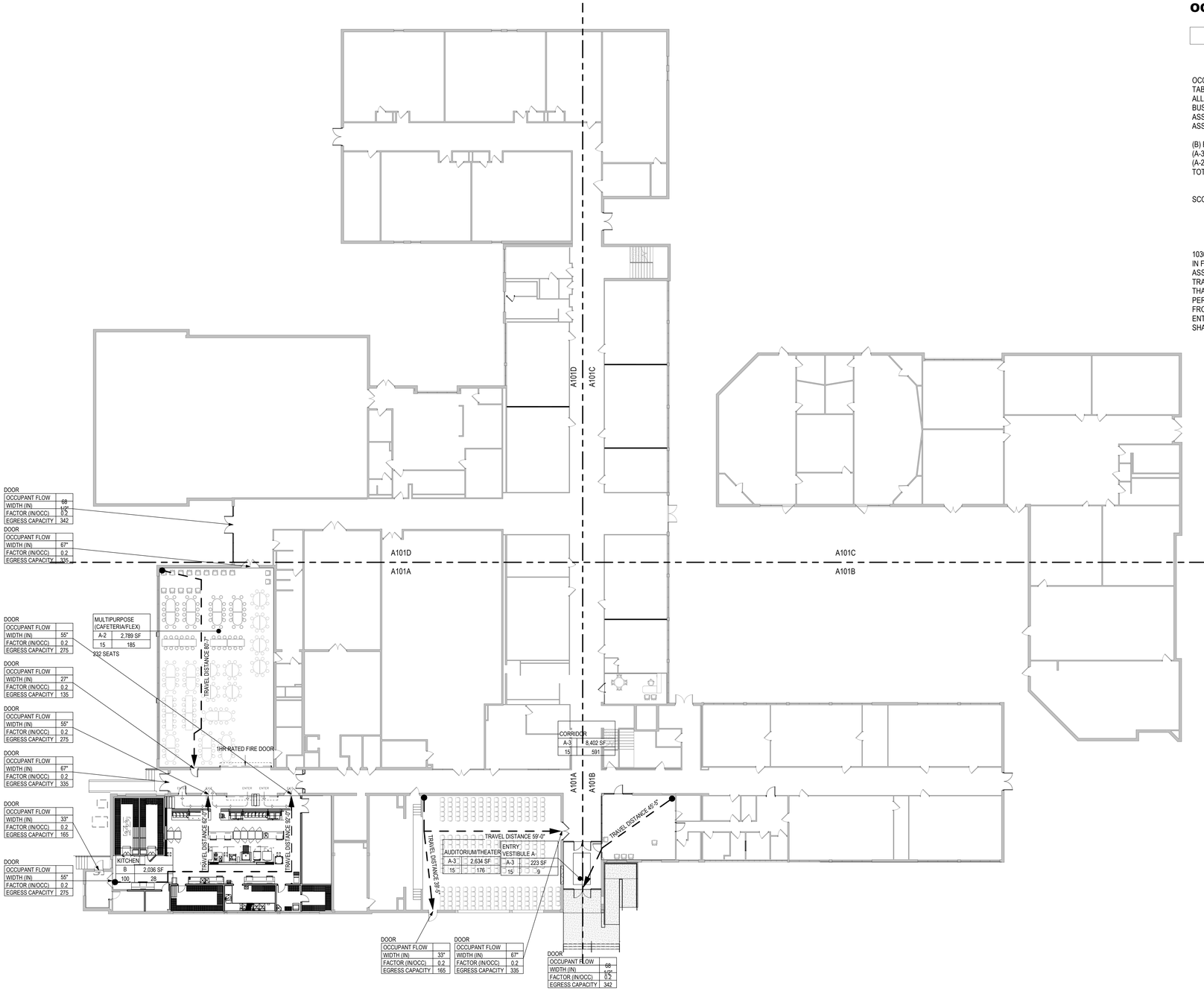


1 **PLAN** LEVEL 01 - CODE PLAN
1/16" = 1'-0"

OCCUPANCY GROUPS

No colors defined

OCCUPANT LOAD ANALYSIS:
TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT
BUSINESS AREAS – 100 GROSS
ASSEMBLY A-3 – 15 NET
ASSEMBLY A-2 – 5 NET

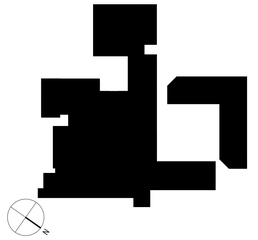
(B) BUSINESS = 4,929 SF / 100 = 49
(A-3) ASSEMBLY = 19,349 SF / 15 = 1,290
(A-2) ASSEMBLY = 1,940 SF / 15 = 130
TOTAL OCCUPANCY = 1,469

SCOPE OF WORK AREA:

B:	4,929 SF
A-3:	19,349 SF
A-2:	1,940 SF
TOTAL:	26,218 SF

1030.7 TRAVEL DISTANCE
IN FACILITIES WITH SMOKE-PROTECTED ASSEMBLY SEATING, THE TOTAL EXIT ACCESS TRAVEL DISTANCE SHALL BE NOT GREATER THAN 400 FEET. THAT PORTION OF THE TOTAL PERMITTED EXIT ACCESS TRAVEL DISTANCE FROM EACH SEAT TO THE NEAREST ENTRANCE TO A VOMITORY OR CONCOURSE SHALL NOT EXCEED 200 FEET.

KEY PLAN



#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - CODE PLAN

1. TBD
2. TBD
3. TBD
4. TBD

CODED NOTE LEGEND

- (X) TBD
- (X) TBD
- (X) TBD
- (X) TBD

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FEVC	FIRE EXTINGUISHER / VALVE CABINET
FVC	FIRE DEPARTMENT / VALVE CABINET

RATED WALL LEGEND

- NEW NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- NEW 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- NEW 1 HOUR FIRE RATED PARTITION TO DECK
- NEW 2 HOUR FIRE RATED PARTITION TO DECK
- NEW 3 HOUR FIRE RATED PARTITION TO DECK
- NEW 4 HOUR FIRE RATED PARTITION TO DECK
- 1HR 1HR EXISTING (1 HOUR) FIRE RESISTANT RATED PARTITION
- 2HR 2HR EXISTING (2 HOUR) FIRE RESISTANT RATED PARTITION

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.20
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.2
EGRESS CAPACITY	XXX

ROOM NAME 101 | A-1 | 150 SF → ROOM SF
OCCUPANCY GROUP → | OCC | OCC LOAD → OCCUPANT LOAD FACTOR
OCCUPANT LOAD →

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 01 - CODE/EGRESS PLAN

REGISTERED ARCHITECT BRIAN TIBBS 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
G101
100% CD'S SUBMITTAL

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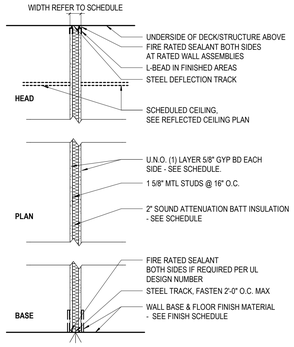
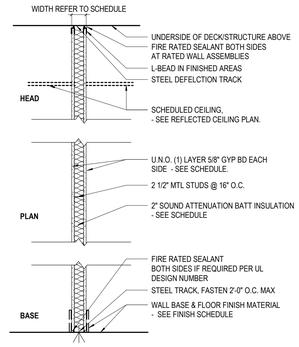
TYPE 1 - 1 5/8" METAL STUD WALL TYPES



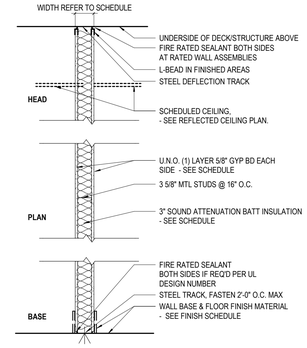
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
1A	2 7/8"	1 5/8"	No	Yes	Yes	1HR	OSU T-3296	38	No	04	
1H	2 1/4"	1 5/8"	Yes	No	No	0HR			No	04	

TYPE 2 - 2 1/2" METAL STUD WALL TYPES



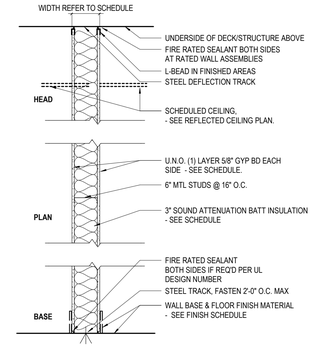
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
2A	3 3/4"	2 1/2"	No	Yes	Yes	1HR	OSU T-3296	38 EST.	No	04	

TYPE 3 - 3 5/8" METAL STUD WALL TYPES



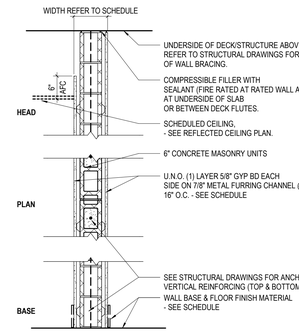
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
3A	4 7/8"	3 5/8"	No	Yes	Yes	1HR	UL# U465	40	No	04	
3C	4 7/8"	3 5/8"	No	Yes	No	0HR		47	Yes	04	
3H	4 1/4"	3 5/8"	Yes	No	No	0HR			No	04	
3L	6 1/8"	3 5/8"	No	Yes	Yes	2HR	UL# U411 OR U412	48	No	04	2 LAYERS TYPE "X" GYPSUM BOARD

TYPE 4 - 6" METAL STUD WALL TYPES



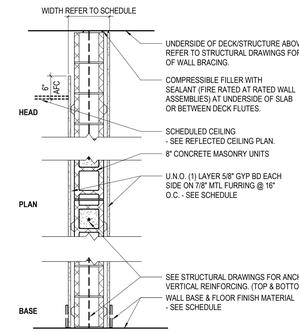
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD.	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
4A	7 1/4"	6"	No	Yes	Yes	1HR	UL# U465	40 EST.	No	04	

TYPE 7 - 6" CONCRETE MASONRY WALLS



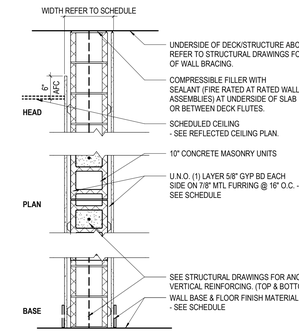
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
7A	5 5/8"	No	No	No	1HR	UL# U906	45	No	08		
7G	8 5/8"	No	Yes	No	1HR	UL# U905	45+	No	10	7/8" METAL FURRING @ 16" O.C BOTH SIDES	

TYPE 8 - 8" CONCRETE MASONRY WALLS



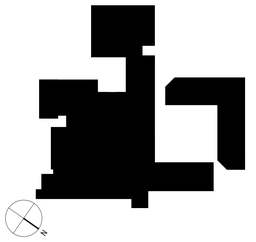
TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
8B	7 5/8"	No	No	No	No	0HR		48	No	08	
8E	9 1/8"	Yes	No	No	No	0HR		48+	No	10	7/8" METAL FURRING @ 16" O.C
8K	7 5/8"	No	No	No	No	2HR	UL# U905	48+	No	08	

TYPE 9 - 10" CONCRETE MASONRY WALLS



TYPE	WIDTH	STUD WIDTH	GYP. BD - 1 SIDE	GYP. BD - 2 SIDES	"TYPE X" GYP. BD	FIRE RATING	UL #	STC RATING	SOUND INSUL.	CODED NOTES	COMMENTS
9A	9 5/8"	No	No	No	1HR	UL# U905	50	No	08		
9B	9 5/8"	No	No	No	0HR		50	No	08		
9D	11 1/8"	Yes	No	No	1HR	UL# U905	50+	No	10	7/8" METAL FURRING @ 16" O.C	
9E	11 1/8"	Yes	No	No	0HR			No	10	7/8" METAL FURRING @ 16" O.C	
9G	1'-0 5/8"	No	Yes	No	1HR	UL# U905	50+	No	10	7/8" METAL FURRING @ 16" O.C BOTH SIDES	

KEY PLAN



#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - WALL TYPE

1. ALL DIMENSIONS TO FACE OF WALL U.N.O.
2. USE 5/8" WATER RESISTANT GYP. BD. ON ALL WET WALLS, UNO.
3. USE CEMENT BOARD FOR ALL WALLS TO RECEIVE CERAMIC TILE, UNO.
4. FIRE SAFE ALL JOINTS AND PENETRATIONS AT FIRE RATED PARTITIONS.
5. UL NUMBERS LISTED APPLY ONLY TO THE TESTED MANUFACTURERS. EQUAL MANUFACTURERS' EQUIVALENT ASSEMBLY INFORMATION MUST BE APPROVED BY ARCHITECT.
6. INSULATION MUST EXTEND FULL HEIGHT OF PARTITION. WHERE SOUND ATTENUATION BATTS ARE INDICATED IN PARTITIONS, INSTALL ACOUSTIC SEALANT AT BOTH SIDES, ALONG THE TOP AND BOTTOM, AND AT INTERSECTING PARTITIONS.
7. WHERE 3 5/8", 4" OR 6" STUD WALLS ARE INDICATED, SEE SPECIFICATIONS FOR HEIGHT LIMITS
8. REFER TO FINISH SCHEDULE FOR FINISHES.
9. SEAL TOP & BOTTOM OF PARTITION WITH ACOUSTIC SEALANT AS REQUIRED BY STC RATING.

CODED NOTE LEGEND

1. BRACE EACH STUD @ 4'-0" O.C. TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.
2. BRACE EACH STUD @ 8'-0" O.C. TO BACK-UP WALL FOR ENTIRE HEIGHT OF PARTITION.
3. SMOKE TIGHT SEAL SHALL BE PROVIDED AT TOP, BOTTOM AND ENDS OF WALL AND AT ALL PENETRATIONS.
4. FULL HEIGHT PARTITION. TERMINATE GYP. BD. AND STUDS AT DECK/STRUCTURE ABOVE.
5. STOP GYP. BD. AND STUDS 6" AFC. BRACE PARTITION TO DECK/STRUCTURE PER METAL STUD MANUFACTURER DESIGN LOADING CRITERIA.
6. FULL HEIGHT SHAFT WALL. TERMINATE GYP BD. AND STUDS AT DECK/STRUCTURE ABOVE.
7. FULL HEIGHT PARTITION. TERMINATE GYP BD., PLYWOOD AND STUDS AT DECK/STRUCTURE ABOVE.
8. FULL HEIGHT PARTITION. TERMINATE CMU AT DECK/STRUCTURE ABOVE.
9. STOP CMU FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCTURE PER STRUCTURAL DRAWINGS.
10. FULL HEIGHT PARTITION. TERMINATE CMU AT DECK ABOVE. STOP FURRING AND GYP. BD. @ 6" ABOVE FINISHED CEILING.
11. STOP WALL FULL COURSE ABOVE FINISH CEILING. BRACE WALL TO STRUCT. PER STRUCTURAL DRAWINGS.

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - WALL TYPES SCHEDULE

REGISTERED ARCHITECT BRIAN ABBE 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
G200
100% CD'S SUBMITTAL

REVIT VERSION: 2023
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FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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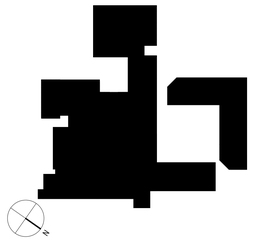
1 **PLAN** OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
3. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
4. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
5. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).
6. REPLACE CARPET AND BASE THROUGHOUT FACILITY
7. FINAL COURT STRIPPING IN MULTIPURPOSE TO BE COORDINATED WITH SCHOOL PRINCIPAL AND DISTRICT. SEE A901 FOR FINISHES.

CODED NOTE LEGEND

1 PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

- PHASE ONE
- PHASE TWO

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - PHASING PLAN

REGISTERED ARCHITECT BRIAN T. ISBELL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
G400
100% CD'S SUBMITTAL

REVIT VERSION: 2023
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GENERAL NOTES:

1. PRIOR TO ANY FIELD CHANGES TO PROPOSED MATERIALS OR DESIGN, CONTRACTOR SHALL COORDINATE WITH DWU PIPELINE INSPECTION AND THE ENGINEER OF RECORD. FIELD CHANGES REQUIRE REVISED PLAN REVIEW AND APPROVAL BY THE CITY REVIEW ENGINEER AND IS TO BE COORDINATED THROUGH THE DWU PIPELINE INSPECTOR AND ENGINEER OF RECORD.
2. ~~ALL WATER MAINS SHALL BE AWWA C900 (DR-14) PVC OR CLASS 54 DUCTILE IRON (IN CENTRAL BUSINESS DISTRICT, AIRPORTS AND OTHER AREAS DESCRIBED IN THE DWU STANDARDS), WITH POLY WRAP AND FULL BODY FITTINGS.~~
3. WATER AND WASTEWATER EASEMENTS SHALL ALSO INCLUDE ADDITIONAL AREA OF WORKING SPACE FOR CONSTRUCTION AND MAINTENANCE OF SYSTEM.
4. ~~ALL WATER DEADHEADS SHALL BE TYPE-K COPPER, INSTALLED PER DWU STANDARD DRAWINGS, AND WATER DEADHEADS REFERENCED AS FOLLOWS: "A" 1-1" (DOM), "B" = 1-2" (IRR) TOTAL: 1-2", 1-2" WATER METER CANS AND METERS SHALL BE INSTALLED BY SEPARATE PERMIT, ALONG WITH THE CONNECTION TO PRIVATE PLUMBING.~~
5. ~~WATER METERS/SERVICES SHALL BE LOCATED:~~
   - 5.A. ~~NO LESS THAN 2 FT BEYOND PROPOSED CURB OR AG SHOWN,~~
   - 5.B. ~~NO CLOSER THAN 3 FT (FOR 1") OR 4 FT (FOR > 1") IN SPACING BETWEEN METERS~~
   - 5.C. ~~WITHIN PUBLIC SIDEWALK WHERE PRESENT OR OTHER ALLOWABLE PROTECTED LOCATION~~
   - 5.D. ~~NOT BE INSTALLED IN DRIVEWAYS NOR ANY VEHICULAR PATHS.~~
6. ~~ALL WASTEWATER LATERALS SHALL BE PLACED WITHIN PAVED SIDEWALKS AND NOT WITHIN VEHICULAR PATHS, UNLESS OTHERWISE APPROVED BY DWU INSPECTOR. SIZED AND REFERENCED AS FOLLOWS: "P" = 1-6" LAT TOTAL: 1-6" LATERAL CLEANOUT SHALL BE INSTALLED BY PERMIT ALONG WITH THE CONNECTION TO PRIVATE PLUMBING.~~
7. ALL 8" THROUGH 15" PVC WASTEWATER MAINS SHALL BE ASTM 3034 (SDR-35), UNLESS NOTED OTHERWISE. ALL WASTEWATER LATERALS SHALL BE ASTM 3034 (SDR-35), UNLESS NOTED OTHERWISE.
8. THE MAXIMUM TRENCH WIDTH IS 32" FOR ALL PIPES DIAMETERS EQUAL TO OR SMALLER THAN 12".
9. SIDEWALK SHALL BE 4' WIDE MINIMUM, ~~LOCATED _____ OFF PROPERTY LINE OR _____ OFF CURB LINE.~~
10. THE CERTIFICATE OF ACCEPTANCE (COA) WILL NOT BE ISSUED UNTIL ALL OF THE FOLLOWING ITEMS HAVE BEEN COMPLETED:
    - 10.A. ALL WATER AND WASTEWATER APPURTENANCES HAVE BEEN ADJUSTED TO THEIR FINAL POSITION AND A FINAL INSPECTION FOR THE P-CONTRACT HAS BEEN SUCCESSFULLY COMPLETED AND;
    - 10.B. THE FINAL PLAT HAS BEEN FILED WITH THE COUNTY (IF APPLICABLE) AND MATCHES THE DESIGN PLANS AND;
    - 10.C. ALL FEES OWED TO THE CITY HAVE BEEN PAID AND;
    - 10.D. A PAY AFFIDAVIT SENT TO PRIVATE DEVELOPMENT STATING THAT THE CONTRACTOR HAS BEEN PAID IN FULL.
11. ~~FIRE HYDRANTS SHALL BE CONSTRUCTED PER DWU STANDARDS DRAWINGS MANUAL PG. 224. HYDRANTS SHALL BE A MINIMUM OF 2.5' AND A MAXIMUM OF 7.5' FROM THE BACK OF CURB WITH 36" OF CLEARANCE FROM ALL OBSTRUCTIONS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH DWU STANDARDS PRIOR TO THE MAIN BEING PLACED IN SERVICE AND THE HYDRANTS PAINTED BY DWU. ANY DELAYS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR IF THE HYDRANT HAS NOT BEEN INSTALLED PER DWU STANDARDS. IT IS RECOMMENDED THAT EXISTING CURBS, SIDEWALKS, FINAL GROUND ELEVATIONS, AND OTHER FEATURES BE STAKED BY THE CONTRACTOR AS NEEDED TO ENSURE COMPLIANCE WITH DWU STANDARDS AND AVOID ADDITIONAL ADJUSTMENTS OR RELOCATIONS THAT MAY DELAY APPROVALS.~~
12. ~~CONTRACTORS SHALL DELIVER ALL REMOVED (SALVAGED) FIRE HYDRANTS TO EITHER 2901 MUNICIPAL ST. OR 9805 HARRY HINES BLVD. DWU MATERIAL SERVICES DIVISION STAFF AT BOTH LOCATIONS CAN ASSIST RECEIVING THE ITEMS. FOR QUESTIONS, CONCERNS, OR ADDITIONAL ASSISTANCE CONTACT 214-670-8035 FOR 2901 MUNICIPAL ST. AND 214-670-6274 FOR 9805 HARRY HINES BLVD.~~
13. ~~EMBEDMENT FOR WATER MAINS SHALL BE PER THE CURRENT DWU STANDARD DRAWINGS MANUAL.~~
14. ~~WATER MAINS SIZED 12" AND UNDER SHALL BE A MINIMUM OF 4-FT UNDER IMPROVED SURFACES AND 6-FT UNDER UNIMPROVED SURFACES.~~
15. STREET AND ALLEY CUTS WILL FOLLOW THE LATEST EDITION OF CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "PAVEMENT CUT AND REPAIR STANDARDS MANUAL". ALL WATER AND WASTEWATER SERVICE CUTS IN PAVEMENT SHALL HAVE THE DITCH LINE FILLED TO PAVEMENT BASE LINE WITH LOW STRENGTH FAST FIX FLOWABLE FILL.
16. CONSTRUCTION SPECIFICATIONS AND APPURTENANCES WILL BE COVERED BY THE CURRENT EDITIONS (AS OF THE TIME OF CONSTRUCTION COMMENCEMENT) OF THE FOLLOWING MANUALS: DALLAS WATER UTILITIES "STANDARD DRAWINGS FOR WATER AND WASTEWATER CONSTRUCTION", "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION STANDARDS", THE "CITY OF DALLAS ADDENDUM TO THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS PUBLIC WORKS CONSTRUCTION STANDARDS".
17. ~~CONTRACTOR WILL REMOVE EXISTING WATER METERS NOT USED FOR PROPOSED DEVELOPMENT. REMOVE METERS AND METER LIDS IN A WAY AS TO NOT DAMAGE THE METER NOR LID AND DELIVER SALVAGED METERS TO 2861 MUNICIPAL STREET. CONTACT ALEX LAND (214-670-8213) 48-HOURS PRIOR TO METER DELIVERY. CONTRACTOR SHALL KILL EXISTING DEADHEAD SERVICE FOR REMOVED METERS AT THE MAIN LINE.~~
18. PRIOR TO THE START OF INSTALLATION WORK, APPROVED RIGHT OF WAY PERMIT, APPROVED TRAFFIC CONTROL PLAN, AND CUT-SHEETS FOR WATER AND WASTEWATER INSTALLATION SHOULD BE SUBMITTED TO DWU PIPELINE INSPECTION.
19. THE CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS WILL APPROVE AND/OR DETERMINE THE TRAFFIC CONTROL PLAN AND WORKING HOURS. CONTACT (214) 948-4290 TO COORDINATE THE SUBMITTAL, REVIEW AND APPROVAL.
20. CONTRACTOR MAY ONLY LAY PIPE WHEN TEMPERATURE IS 36 DEGREES F AND RISING. ANY SPECIAL METHODOLOGY OR PROCEDURES FOR LAYING PIPE AT LESS THAN 36 DEGREES REQUIRES THE APPROVAL OF DWU PIPELINE INSPECTION SUPERINTENDENT.
21. ~~LOW-STRENGTH FLOWABLE FILL SHALL BE USED AS BACKFILL MATERIAL AROUND NEW MANHOLES LOCATED WITHIN EXISTING OR NEW PAVEMENT.~~
22. ALL NEW MANHOLES OR EXISTING MANHOLES AFFECTED BY CONSTRUCTION OF THIS CONTRACT SHALL HAVE THE INTERIOR COATED WITH RAVEN 405 OR APPROVED EQUAL. COATING MUST BE APPLIED BY CERTIFIED APPLICATOR. SPRAY, BRUSH, OR ROLLER APPLICATION TO A MINIMUM OF 200 MIL THICKNESS.
23. CONTRACTOR SHALL REPLACE ALL LEAD-JOINT WATER PIPE FITTINGS ENCOUNTERED WITH NEW DWU APPROVED FITTINGS/APPURTENANCES.
24. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL REQUIRED FITTINGS/COUPLINGS IN A TIMELY MANNER. ANY DELAY DUE TO SHUT DOWN AND CONNECTION ISSUES DURING WATER MAIN TIE-IN ARE CONSIDERED INCIDENTAL WORK AND SHALL BE BORNE BY THE CONTRACTOR. ANY SPECIALIZED FITTING/COUPLINGS SHALL BE INSTALLED BY QUALIFIED PERSONNEL WITH THAT SPECIFIC SKILL.
25. ~~WATER VALVES SHOULD BE ACCESSIBLE AND READY FOR PERMANENT ACCESSIBILITY BEFORE WATER MAIN CAN BE PLACED IN SERVICE AND TIE-INS COMPLETED. VALVES SHOULD BE PROPERLY BACKFILLED AND PLACED TO GRADE AND NOT COVERED BY PLATES, BACKFILL, OR OTHER CONSTRUCTION MATERIALS. PVC VALVE STACKS ARE NOT ALLOWED.~~
26. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITY LINES THAT MAYBE AFFECTED BY THE WORK. THESE EFFORTS SHALL INCLUDE BUT NOT LIMITED TO; GROUND PENETRATING RADAR (GPR), REVIEW OF EXISTING PLANS, CONTACTING TEXAS 811 AND ANY OTHER CITY, STATE, MUNICIPAL OR UTILITY COMPANY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITY LINES (UNDERGROUND AND ABOVE GROUND) WHILE PERFORMING WORK. ANY DAMAGED UTILITY LINES WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

PAVING NOTES:

24. ALL SUBGRADE CONPACTION UNDER STREET PAVEMENT SHALL BE 98% STANDARD PROCTOR DENSITY AT -2% TO +4% OF OPTIMUM MOISTURE.
25. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS INDICATED ON THE PLANS AND ON THE SPECIFICATIONS.
26. BAR SHALL CONFORM TO CITY OF DALLAS STANDARD SPECIFICATIONS AND BE GRADE 60 KSI DEFORMED REINFORCED BARS. SIZE AND SPACING SHALL BE AS INDICATED HEREIN EXCEPT SUCH ALTERNATES THAT MAY BE ALLOWED IN THE SPECIFICATIONS.
27. ALL CURB & GUTTER SHALL BE INTEGRAL WITH PAVEMENT OR BASE.
28. ~~AS REFLECTED IN "TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS". TOTAL CROWN HEIGHTS FOR ASPHALT PAVEMENT AND CONCRETE BASE WITH ASPHALT SURFACE SHALL BE UNIFORMLY ONE INCH GREATER THAN THOSE INDICATED FOR CONCRETE SURFACES. WIDTH FOR WIDTH OF ROADWAY.~~
29. ~~CROWNS FOR ALL DIVIDED ARTERIAL STREET TYPE SHALL BE STRAIGHT-LINE SLOPES.~~
30. ~~CROWNS FOR ALL UNDIVIDED ARTERIAL, LOCAL OR COLLECTOR STREET TYPES MAY BE PARABOLIC OR STRAIGHT IN SECTION.~~
31. ~~DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON SHEET NO. 1003.~~
32. INTEGRAL CONCRETE CURB AND CURB & GUTTER SHALL BE OF THE SAME COMPRESSIVE STRENGTH AS THE PAVEMENT OR BASE.
33. SEPARATE CONCRETE CURB & GUTTER SHALL BE MINIMUM 4500 PSI BY HAND AND 4000 PSI WITH MACHINE.
34. SEPARATE CONCRETE CURB & GUTTER SHALL BE TOOLED 1 INCH DEEP WITH AN APPROVED TOOL IN 10 FOOT SECTIONS. EACH FOURTH JOINT SHALL BE A 3/4" REDWOOD EXPANSION JOINT THE FILLER SHALL BE OF 1/2 INCH PREMOLDED BITUMINOUS JOINT MATERIAL SHAPED SIMILAR TO THE CROSS SECTION OF CURB & GUTTER. THREE DOWELS SHALL BE EMPLOYED FOR EACH EXPANSION JOINT.
35. BAR LAPS SHALL BE 30 TIMES DIAMETER OF THE SIZE OF THE BAR.
36. FOR SUBGRADE STABILIZATION REFER TO NCTCOG, GEOTECHNICAL REPORT, OR ENGINEERING PLANS, WHICHEVER IS MORE CONSERVATIVE.
37. ALL BARS FOR CONCRETE STREET THICKNESSES <= 9" SHALL BE NO. 3 REINFORCING BARS SPACED 24" ON CENTERS EACH WAY, ALL BARS FOR CONCRETE STREET THICKNESS >= 9" SHALL BE NO. 4 REINFORCING BARS SPACED 24" ON CENTER EACH WAY. FOR THICKNESS > 12" DESIGN ENGINEER MUST SPECIFY REBAR SIZE.
38. ~~ALL CROWNS ARE TO BE PARABOLIC OR ROOFTOP IN SECTION AND SYMMETRICAL IN CENTERLINE OF PAVEMENT.~~

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5	08/18/2025	QA/QC & ESTIMATING
6	08/29/2025	95% CD SUBMITTAL
7	12/02/2025	100% CD SUBMITTAL

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

General Civil Notes

STATE OF TEXAS — JONATHAN O. GAN — 132244 — LICENSED — PROFESSIONAL ENGINEER

Huitt-Zollars, Inc.
Firm Registration No. F-761

12.02.2025

DRAWN BY: | CHECKED BY:

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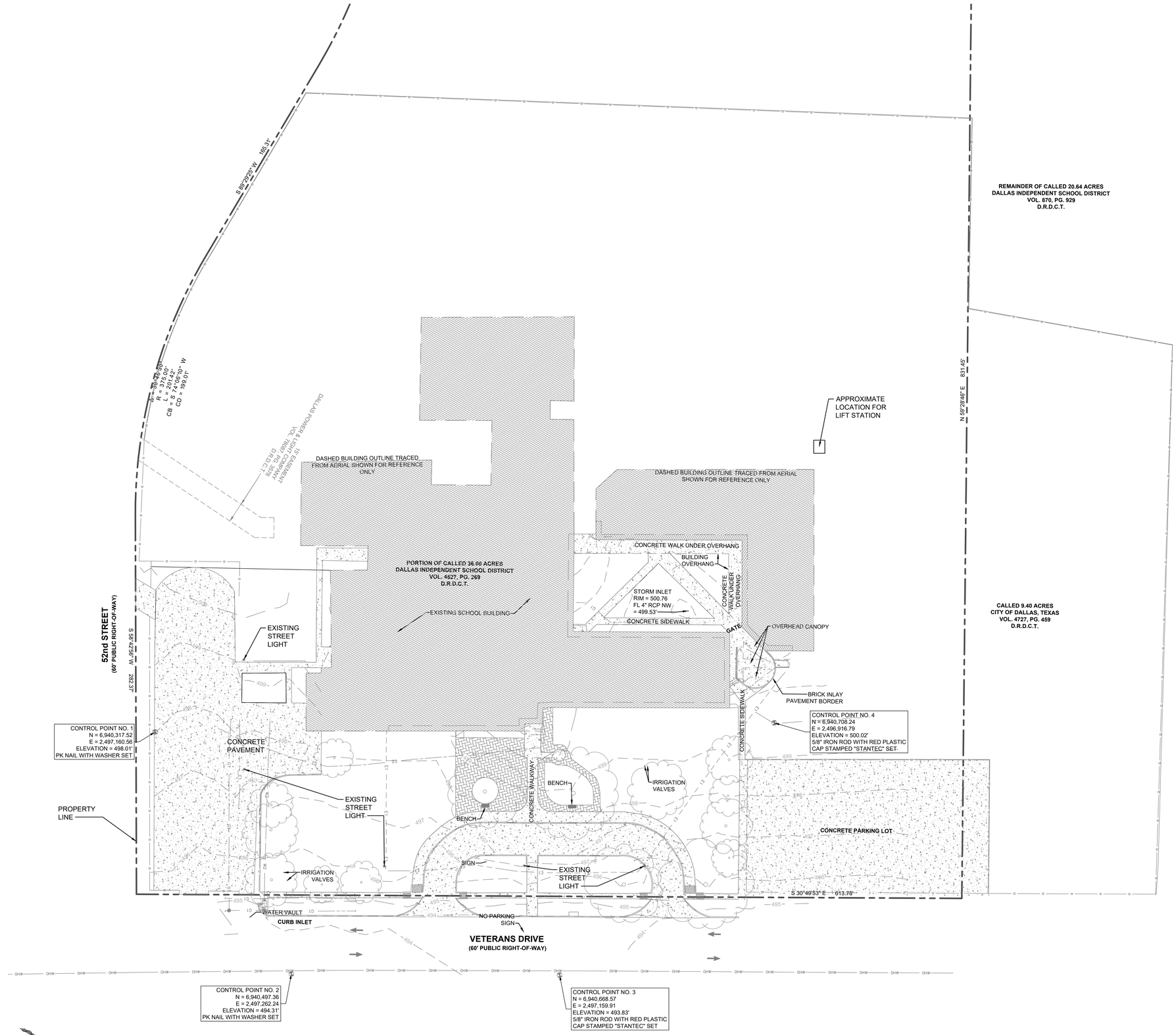

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LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING BRICK PAVERS
- EXISTING BUILDING
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212

4747 Veterans Dr, Dallas, TX 75216

FOR

DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Existing Conditions Site Plan

JONATHAN O. GAN 132244 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

Huitt-Zollars, Inc.
Firm Registration No. F-761

12.02.2025

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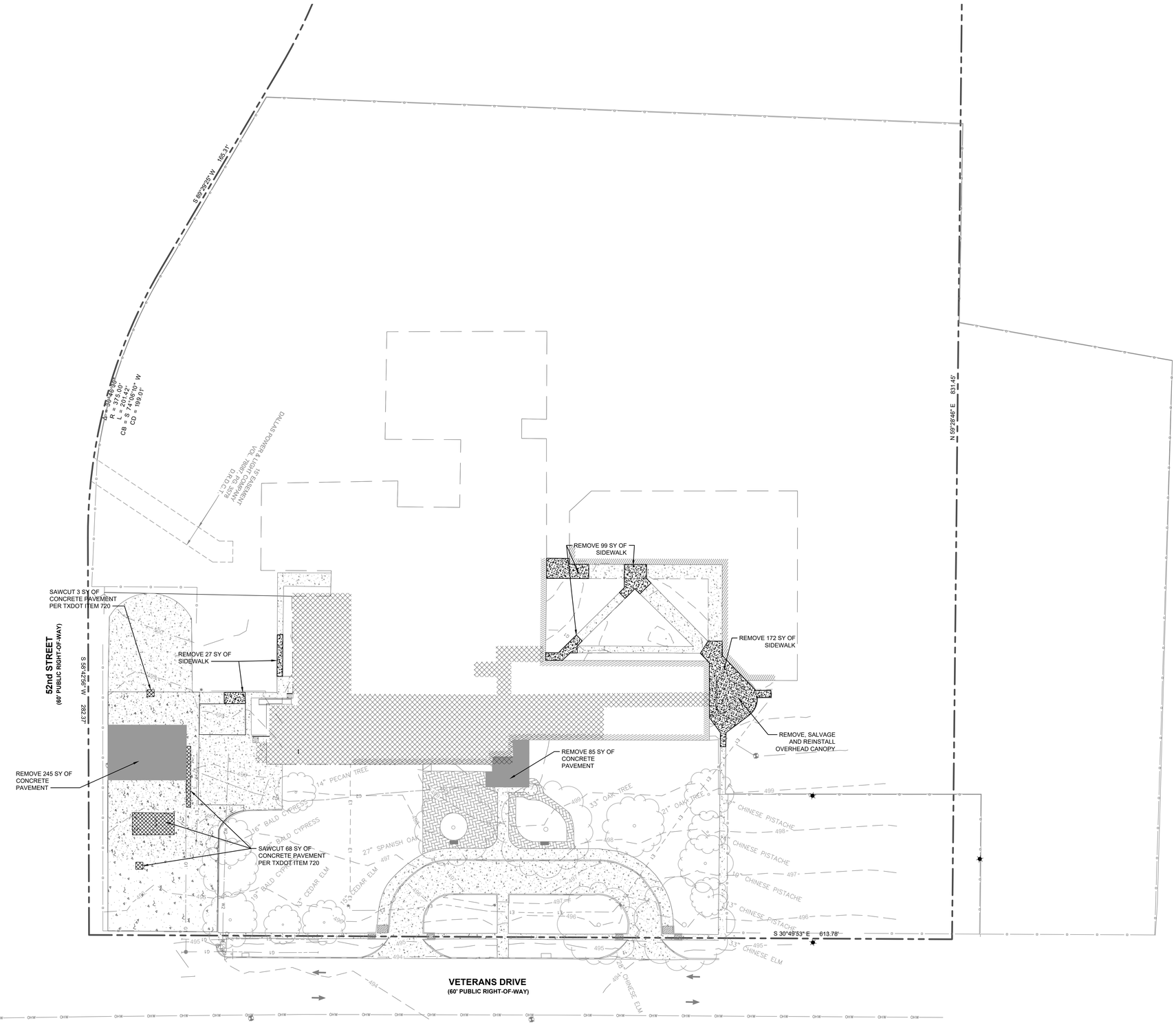

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SCALE: 1" = 30'

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LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING BRICK PAVERS
- EXISTING BUILDING
- PROPOSED BUILDING RENOVATION
- PROPOSED CONCRETE PAVING
- PROPOSED SPALLING REPAIR
- PROPOSED CONCRETE SIDEWALK
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE

NOTES:

1. 18" MINIMUM SOLID SLAB SODDING (BERMUDA GRASS) TO BE PLACED ABUTTING ALL NEWLY CONSTRUCTED CURBS, SIDEWALKS AND MOW STRIP.
2. SOD ALL GRASSED AREA DISTURBED DURING CONSTRUCTION.
3. TEXAS ACCESSIBILITY STANDARDS COMPLIANCE REQUIRED.
4. CURB RAMP RUN SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
5. RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
6. CONTRACTOR TO NOTE CURRENT STRIPING/MARKINGS BEFORE BEGINNING WORK AND REPLACE IN-KIND AFTER NEW PAVEMENT PLACEMENT.
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8. REFER TO SHEET C008 FOR SPOT ELEVATIONS.
9. REFER TO SHEET C001 GENERAL NOTE 26 FOR ALL UNDERGROUND UTILITIES.

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Demolition Plan

STATE OF TEXAS — JONATHAN O. GAN — 132244 — LICENSED — PROFESSIONAL ENGINEER

Huitt-Zollars, Inc.
Firm Registration No. F-761

12.02.2025

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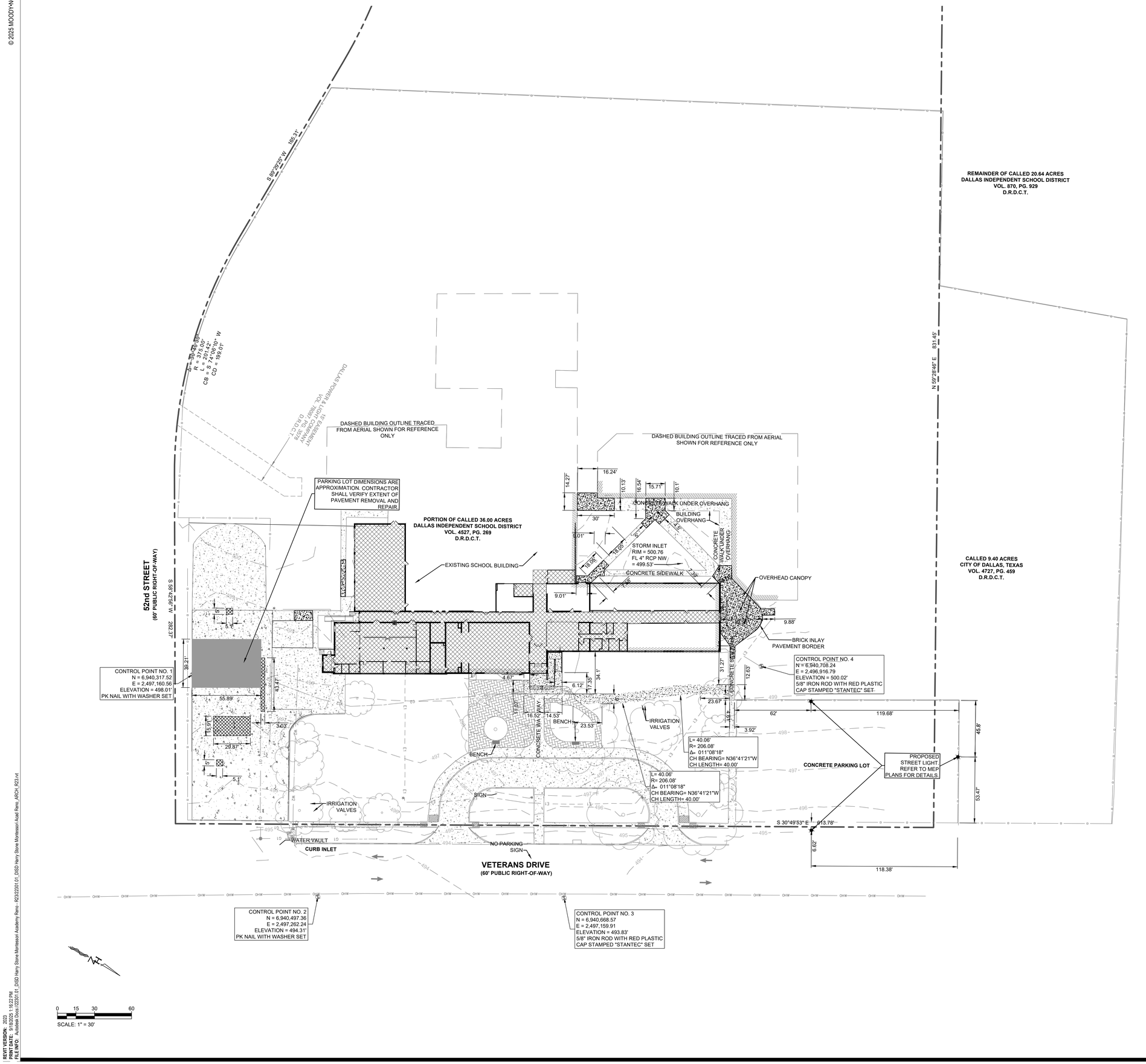

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7	12/02/2025	100% CD SUBMITTAL

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING BRICK PAVERS
- EXISTING BUILDING
- PROPOSED BUILDING RENOVATION
- PROPOSED CONCRETE PAVING
- PROPOSED SPALLING REPAIR
- PROPOSED CONCRETE SIDEWALK
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE
- PROPOSED STREET LIGHT

NOTES:

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8. REFER TO SHEET C008 FOR SPOT ELEVATIONS.
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DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Dimension Control Plan

12.02.2025

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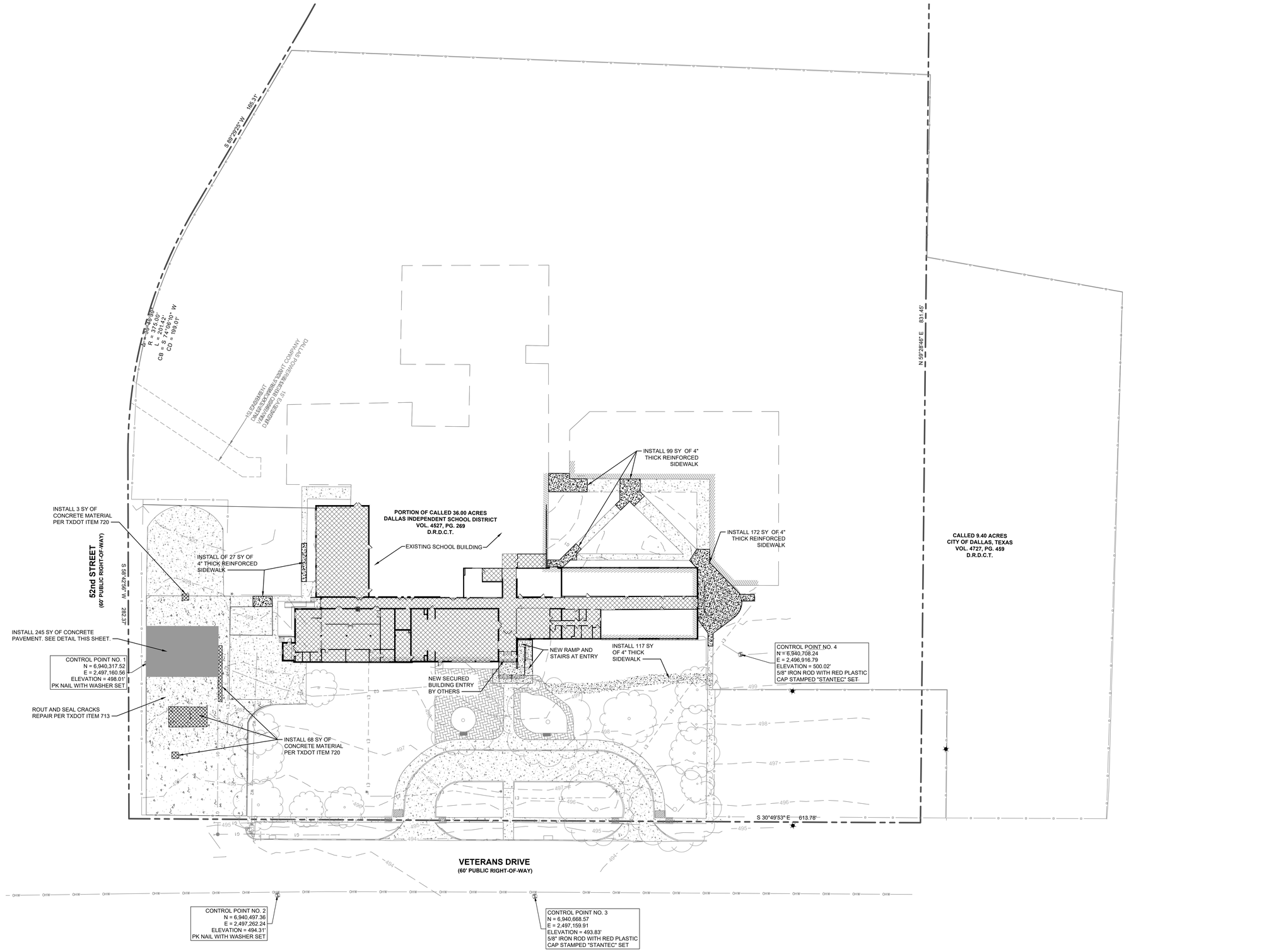

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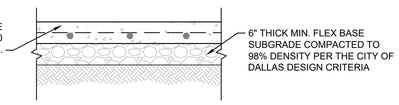
SCALE: 1" = 30'



CONCRETE PAVEMENT SECTION DETAIL
N.T.S.

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- PROPOSED CONCRETE PAVING
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- EXISTING CHAIN LINK FENCE

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4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

On Site Paving Plan

12.02.2025

STATE OF TEXAS — JONATHAN O. GAN — 132244 — LICENSED — PROFESSIONAL ENGINEER

Huitt-Zollars, Inc.
Firm Registration No. F-761

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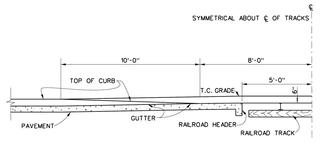
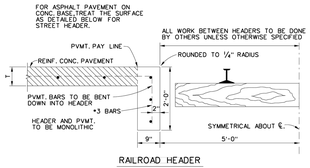
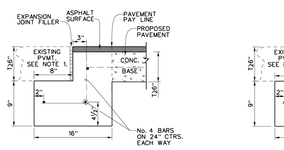
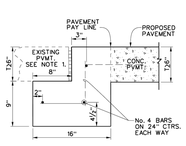


CURB DETAIL AT RAILROAD



RAILROAD HEADER

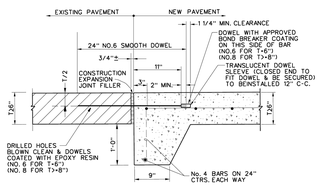




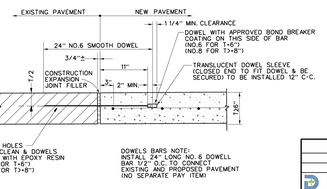
PAVEMENT BARS TO BE BENT DOWN INTO HEADER. HEADER AND PAVEMENT TO BE MONOLITHIC

STREET HEADER

NOTE:
1) STREET HEADER TO BE USED TO CONNECT NEW PAVEMENT WITH EXISTING ASPHALT PAVEMENT, CONCRETE PAVEMENT WITH ASPHALT OVERLAY OR WITH EXISTING CONCRETE PAVEMENT IF THE CONCRETE IS DAMAGED AND CANNOT DRILL HOLES FOR DOWELLS.

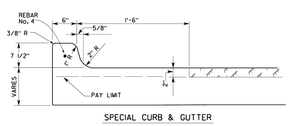


STREET HEADER AT EXISTING PAVEMENT

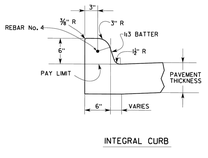


NEW TO EXISTING PAVEMENT CONNECTION

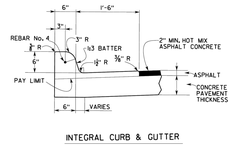
PAVING DETAILS
PAVEMENT HEADER SECTION
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1007C
REVISED: SEPTEMBER 2022



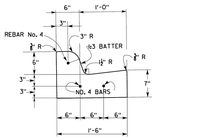
SPECIAL CURB & GUTTER



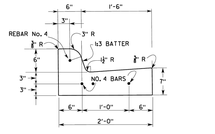
INTEGRAL CURB



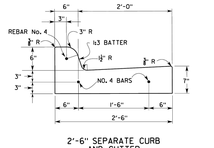
INTEGRAL CURB & GUTTER



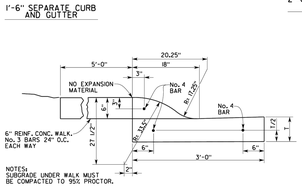
1'-6" SEPARATE CURB AND GUTTER



2'-0" SEPARATE CURB AND GUTTER



2'-6" SEPARATE CURB AND GUTTER



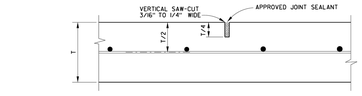
NOTES:
SUBGRADE UNDER WALK MUST BE COMPACTED TO 95% PROCTOR.

MOUNTABLE CURB AND GUTTER DETAILS
REINF. CONC. WALK DETAILS

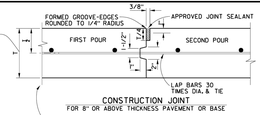
NOTES:
1. ALL REINFORCEMENT STEEL SHALL BE MINIMUM No. 4 BARS, EXCEPT FOR CBD AS SHOWN ON SHEET No. 1008A.
2. SEPARATE CURB WITH 12" OR 18" GUTTER SHALL BE USED ONLY AS REPLACEMENT TO MATCH EXISTING CONDITIONS
3. FOR CONNECTING SEPARATE CURB AND GUTTER TO AN EXISTING CONCRETE STREET, No.4 BARS MUST BE PLACED EVERY 24" WITH NO SEPARATE PAY ITEM.

*SEE GENERAL NOTES ON SHEET No. 1007A FOR FURTHER INFORMATION.

PAVING DETAILS
CURB AND GUTTER DETAILS
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1007B
REVISED: DECEMBER 2021

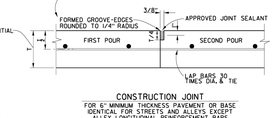


CONTROL JOINT
IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS

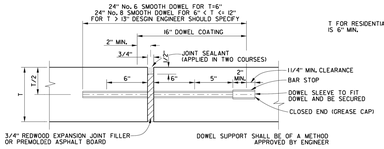


CONSTRUCTION JOINT
FOR 8" OR ABOVE THICKNESS PAVEMENT OR BASE

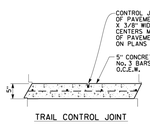
CHANGE BAR SPACING ACROSS JOINTS TO 12" CTRS. FOR LONGITUDINAL JOINTS



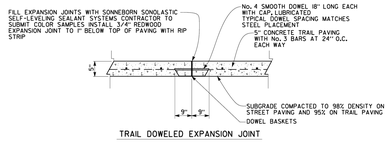
CONSTRUCTION JOINT
FOR 6" MINIMUM THICKNESS PAVEMENT OR BASE IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



TRANSVERSE EXPANSION JOINT
IDENTICAL FOR STREETS AND ALLEYS

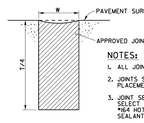


TRAIL CONTROL JOINT



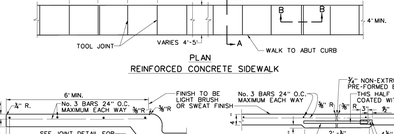
TRAIL DOWELED EXPANSION JOINT

SPACING DIAGRAM FOR JOINTS:
- IDENTICAL FOR STREETS (CONCRETE PAVEMENT OR BASE) AND ALLEYS EXCEPT THAT EXPANSION JOINTS FOR ALLEYS SHALL BE PLACED AT THE END OF THE RETURN IN LINE WITH THE PROPERTY LINE.
- DOWEL BAR SPACING SHALL NOT EXCEED 60 FEET AND MATCH WITH EXISTING.
- ALL EXPANSION JOINT DOWEL BARS SHALL BE HELD FIRMLY IN PLACE PARALLEL WITH THE PAVEMENT SURFACE WITH WIRE BASKETS MODIFIED TO MOLD AROUND THE REDWOOD EXPANSION BOARD.
- FOR ALL LONGITUDINAL CONSTRUCTION JOINTS PROVIDE TIE BARS AS FOLLOWS:
  - No. 3 BARS ON 12" C-C FOR PAVEMENT THICKNESS < 9 IN.
  - No. 4 BARS ON 12" C-C FOR PAVEMENT THICKNESS >= 9 IN.
  - IF T>12" DESIGN ENGINEER MUST SPECIFY REBAR SIZE.
- ALL TIE BARS SHALL BE 24" MIN. LENGTH AND CENTERED ON THE LONGITUDINAL JOINT.



NOTES:
1. ALL JOINTS SHALL BE SEALED.
2. JOINTS SHOULD BE CLEAN AND DRY PRIOR TO PLACEMENT OF SEALANT.
3. JOINT SEAL - HOT POURED POLYMER SELECT PER TXDOT ELASTOMERIC MATERIALS (PER CGI), HOT-APPLIED, SILICONE - COLD-APPLIED POLYMERIC SEALANT OR EQUAL APPROVED SEALANT

PAVING DETAILS
PAVEMENT JOINT DETAILS
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1003A
REVISED: DECEMBER 2021



PLAN
REINFORCED CONCRETE SIDEWALK

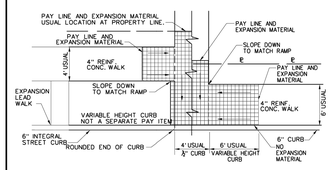
MINIMUM CONCRETE STRENGTH FOR SIDEWALK IS 3000 PSI

A - A
TYPICAL SECTION

B - B
EXPANSION JOINT DETAIL

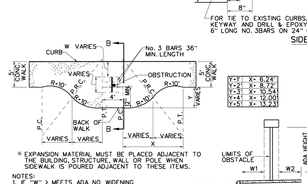
NOTES:
1. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL - PLASTERED BEFORE POURING SIDEWALK.
2. FOR SIDEWALKS AGAINST EXISTING CURB, KEYWAY SHALL BE REPLACED WITH 12" LONG No. 3 DEFORMED BARS DRILLED 4" INTO EXISTING BACK CURB AND EPOXY GROUTED ON 24" CENTERS.
3. PAYMENT FOR KEYWAY SUBSIDIARY TO SIDEWALK LUG PAY ITEM.
4. PAYMENT FOR EXCAVATION, BORROW AND COMPACTION IS SUBSIDIARY TO CONCRETE SIDEWALK PAY ITEM.
5. ALL BACKFILL SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES TO 95% DENSITY WITH A MOISTURE WITHIN -2% TO +4% OF OPTIMUM MOISTURE.
6. 3/4" EXPANSION JOINTS SHALL BE PROVIDED AT STREET EXPANSION JOINTS AND AT A MAXIMUM 40 FOOT SPACING IN LINE WITH STREET SAW JOINTS. A TOOL MARKED GROOVE SHALL BE PROVIDED IN LINE WITH CONTRACTION JOINTS.
7. ALL PROPOSED SIDEWALKS MUST BE DOWELED INTO EXISTING SIDEWALK USING No. 3 DEFORMED BARS.
8. FOR SIDEWALK WIDTH, REFER TO CITY OF DALLAS STREET DESIGN MANUAL.
9. MINIMUM CONCRETE STRENGTH FOR SIDEWALK IS 3000 PSI.

BARRIER FREE RAMPS AT LEAD WALKS



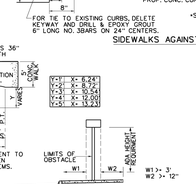
SIDEWALK WITH PARKWAY
SIDEWALK ABUTTING CURB

NOTES:
1. NO SLOPE TO EXCEED 1" PER 1'.
2. ACTUAL LOCATIONS OF RAMP LIMITS WILL BE DETERMINED BY SLOPE OF RAMP AND GRADE OF STREET.
3. WALK REINFORCEMENT WILL BE No. 3 BARS SPACED 24" O.C. MAX. EACH WAY.
4. BROOM FINISH NEEDED.



NOTES:
1. 6" "W" > MEETS ADA NO WIDENING NECESSARY EXCEPT POSSIBLY TO OBTAIN MINIMUM DISTANCE OF 7' TO EDGE OF SIDEWALK.
2. SAME WIDENING PLAN WILL BE USED FOR WALK NOT ABUTTING CURB.

SIDEWALK WIDENING REQUIRED AROUND OBSTACLES IN SIDEWALK



SECTION B - B

NOTE:
FOR ANY SPECIAL RAMP FOR ENGINEERING CONDITION DESIGN ENGINEER MUST INCLUDE DESIGN OF RAMP

PAVING DETAILS
REINFORCED SIDEWALKS
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1015
REVISED: SEPTEMBER 2022

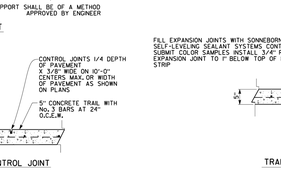
PLAN
TYPE 2 STEPS

STEPS	CONCRETE C.Y.	STEEL LBS.*
3	1.19	43.45
4	1.42	50.01
5	1.67	59.00
6	1.93	68.18
7	2.20	78.87
8	2.48	89.74
9	2.79	100.80
10	3.09	112.42

QUANTITIES INCLUDE WALK PORTION BETWEEN EXPANSION JOINTS

SECTION A-A
TYPE 2 STEPS

GENERAL NOTES:
1. CONCRETE FOR STEPS TO BE CLASS A CONCRETE.
2. BARS SHALL CONFORM TO SECTION 303.2.9 - STEEL REINFORCEMENT OF THE NCTCOG SPECIFICATIONS (5TH EDITION, 2017)
3. BAR LAPS TO BE 30 TIMES DIAMETER.
4. ALL EXPOSED SURFACES EXCEPT STEP TREADS ANS WALK SHALL RECEIVE A RUBBED FINISH.
5. STEPS TREADS AND WALK SHALL RECEIVE A NON-SKID WOOD FLOAT FINISH.
6. STEP EDGES (NOSING) SHALL BE ROUNDED TO 3/8" DIAMETER AND 1/2" MAX.
7. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND TREAD DEPTH.
8. WIDTH OF TREAD AND / OR DEPTH OF RISER OF ALL STEPS MAY BE MODIFIED 6" SO INDICATED IN THE PLANS. RISER HEIGHT SHALL BE 4" MIN AND 7" MAX. TREAD DEPTH SHALL BE 12" MIN. (SEE THE MOST RECENT EDITION OF THE TEXAS ACCESIBILITY STANDARDS)
9. EXPANSION JOINTS SHALL BE COMPOSED OF 1/2" PREMOLDED JOINT FILLER.
10. QUANTITIES ARE BASED ON STEPS HAVING 6" RISERS AND 12" TREADS AND LEAD WALKS 4' WIDE.



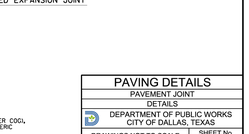
HANDDRAIL FOR STEPS
PAINT ACCORDING TO SECTION 5-8 OF GENERAL SPECIFICATIONS

STEPS	CONCRETE C.Y.*
1	0.30
2	0.47
3	0.64

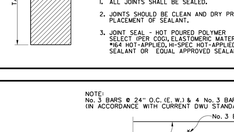
QUANTITIES OF CONCRETE PROVIDED BY STEP ADD TO FOR EACH ADDITIONAL STEP

QUANTITIES FOR CONC. STEPS=4 FEET WIDE.

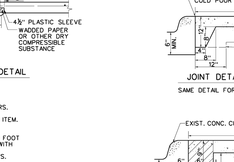
SECTION
TYPE 3 STEPS



PLAN
TYPE 3 STEPS
WITH BUTTRESS WALLS



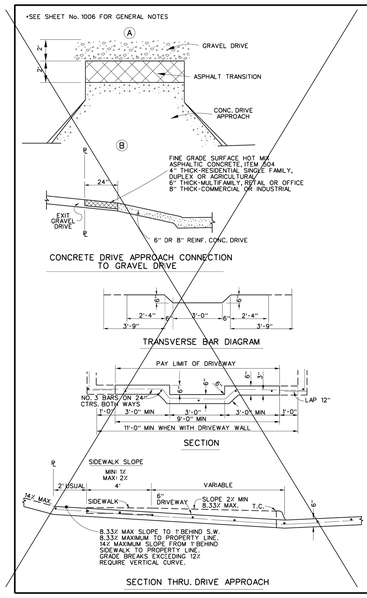
SECTION
TYPE 4 STEPS



PLAN
TYPE 4 STEPS
WITHOUT BUTTRESS WALLS

GENERAL NOTES:
1. CONCRETE FOR STEPS TO BE CLASS A CONCRETE.
2. BARS SHALL CONFORM TO SECTION 303.2.9 - STEEL REINFORCEMENT OF THE NCTCOG SPECIFICATIONS (5TH EDITION, 2017)
3. BAR LAPS TO BE 30 TIMES DIAMETER.
4. ALL EXPOSED SURFACES EXCEPT STEP TREADS ANS WALK SHALL RECEIVE A RUBBED FINISH.
5. STEPS TREADS AND WALK SHALL RECEIVE A NON-SKID WOOD FLOAT FINISH.
6. STEP EDGES (NOSING) SHALL BE ROUNDED TO 3/8" DIAMETER AND 1/2" MAX.
7. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND TREAD DEPTH.
8. WIDTH OF TREAD AND / OR DEPTH OF RISER OF ALL STEPS MAY BE MODIFIED 6" SO INDICATED IN THE PLANS. RISER HEIGHT SHALL BE 4" MIN AND 7" MAX. TREAD DEPTH SHALL BE 12" MIN. (SEE THE MOST RECENT EDITION OF THE TEXAS ACCESIBILITY STANDARDS)
9. EXPANSION JOINTS SHALL BE COMPOSED OF 1/2" PREMOLDED JOINT FILLER.
10. QUANTITIES ARE BASED ON STEPS HAVING 6" RISERS AND 12" TREADS AND LEAD WALKS 4' WIDE.

PAVING DETAILS
MISCELLANEOUS DETAILS
CONCRETE STEPS AND HANDRAIL FOR STEPS
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1006B
REVISED: SEPTEMBER 2022

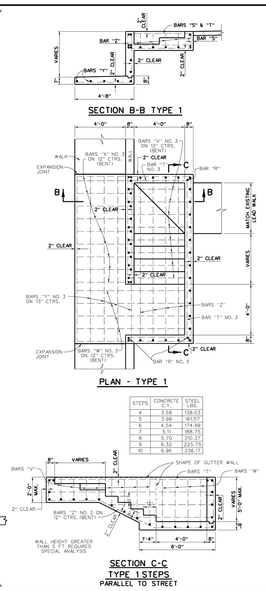


CONCRETE DRIVE APPROACH CONNECTION TO GRAVEL DRIVE

TRANSVERSE BAR DIAGRAM

SECTION

SECTION THRU. DRIVE APPROACH



SECTION B-B TYPE 1

PLAN - TYPE 1

STEPS	CONCRETE C.Y.*	STEEL LBS.*
4	0.56	58.03
5	0.68	114.59
6	4.54	174.99
7	5.31	198.75
8	6.09	210.37
9	6.32	225.75
10	6.86	236.07

SECTION C-C
TYPE 1 STEPS
PARALLEL TO STREET

GENERAL NOTES:
1. CONCRETE FOR STEPS TO BE CLASS A CONCRETE.
2. BARS SHALL CONFORM TO SECTION 303.2.9 - STEEL REINFORCEMENT OF THE NCTCOG SPECIFICATIONS (5TH EDITION, 2017)
3. BAR LAPS TO BE 30 TIMES DIAMETER.
4. ALL EXPOSED SURFACES EXCEPT STEP TREADS ANS WALK SHALL RECEIVE A RUBBED FINISH.
5. STEPS TREADS AND WALK SHALL RECEIVE A NON-SKID WOOD FLOAT FINISH.
6. STEP EDGES (NOSING) SHALL BE ROUNDED TO 3/8" DIAMETER AND 1/2" MAX.
7. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND TREAD DEPTH.
8. WIDTH OF TREAD AND / OR DEPTH OF RISER OF ALL STEPS MAY BE MODIFIED 6" SO INDICATED IN THE PLANS. RISER HEIGHT SHALL BE 4" MIN AND 7" MAX. TREAD DEPTH SHALL BE 12" MIN. (SEE THE MOST RECENT EDITION OF THE TEXAS ACCESIBILITY STANDARDS)
9. EXPANSION JOINTS SHALL BE COMPOSED OF 1/2" PREMOLDED JOINT FILLER.
10. QUANTITIES ARE BASED ON STEPS HAVING 6" RISERS AND 12" TREADS AND LEAD WALKS 4' WIDE.

PAVING DETAILS
CONC. TO GRAVEL DRIVE APPROACH
MISCELLANEOUS DETAIL STEPS
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS
DRAWINGS NOT TO SCALE | SHEET No. 1006A
REVISED: SEPTEMBER 2022

#	DATE	CHANGE DESCRIPTION
1	05/01/2024	30% DD SUBMITTAL
2	07/26/2024	100% DD SUBMITTAL
3	01/27/2025	50% CD SUBMITTAL
4	06/17/2025	50% CD RESUBMITTAL
5	08/18/2025	QA/QC & ESTIMATING
6	08/29/2025	95% CD SUBMITTAL
7	12/02/2025	100% CD SUBMITTAL

LEGEND

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Paving Details

12.02.2025
DRAWN BY: | CHECKED BY:
R22301.01

C006

100% CD SUBMITTAL

10.15.2025
STATE OF TEXAS
JONATHAN O. GAN
132244
LICENSED
PROFESSIONAL ENGINEER
Huitt-Zollars, Inc.
Firm Registration No. F-761

REVIT VERSION: 2023
PRINT DATE: 9/18/2025 1:02:54 PM
FILE INFO: Autodesk Docs://22301.01 DISD Harry Stone Montessori Academy Reno - R22301.01_DISD Harry Stone Montessori Addt Reno_ARCH_R23.rvt

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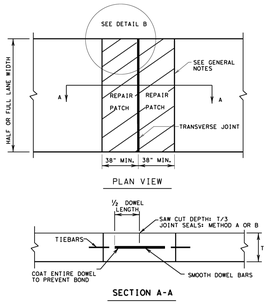
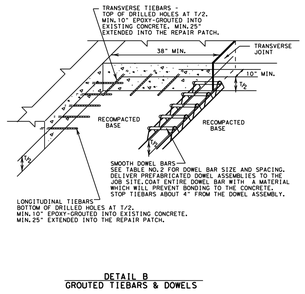


PLAN VIEW

SECTION A-A



DETAIL B
GROUTED TIEBARS & DOWELS

GENERAL NOTES

1. ITEM 361, "REPAIR OF CONCRETE PAVEMENT" SHALL GOVERN FOR THIS WORK.
2. MULTIPLE PIECE TIEBARS SHALL BE USED WHEN THE REPAIR AREA MUST BE PLACED IN TWO STAGES DUE TO SEQUENCE OF CONSTRUCTION.
3. FULL DEPTH SAW CUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE REPAIRED. THE CUT SHALL BE MADE AT A RIGHT ANGLE TO THE PAVEMENT EDGE AND TO THE CENTER LINE OF THE PAVEMENT.
4. AT LEAST ONE LONGITUDINAL FULL DEPTH SAW CUT SHALL BE AT AN EXISTING LONGITUDINAL JOINT.
5. ADDITIONAL SAW CUTS MAY BE REQUIRED WITHIN THE AREA OF THE REPAIR TO FACILITATE REMOVAL OF THE CONCRETE OR TO ALLEVIATE BINDING OF THE FULL DEPTH SAW CUT AT THE REPAIR EDGE.
6. THE SAW CUTS WHICH EXTEND OUTSIDE THE AREA OF THE REPAIR WILL BE CLEANED AND FILLED WITH A CEMENTITIOUS GROUT APPROVED BY THE ENGINEER.
7. EXISTING LONGITUDINAL AND TRANSVERSE JOINTS REMOVED DUE TO REPAIR OPERATION SHOULD BE RESTORED IN ACCORDANCE WITH STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS."
8. DOWEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1/4 IN. HORIZONTALLY AND VERTICALLY UNLESS OTHERWISE SPECIFIED. WHERE DOWEL BAR BASKETS ARE USED, REMOVE THE SHIPPING WIRES.

TABLE NO. 2 DOWELS (SMOOTH BARS)			
PAVEMENT THICKNESS (INCHES)	SIZE AND DIA.	LENGTH (IN.)	SPACING (IN.)
<10	#8 (1 IN.)	18.0	12.0
≥10	#10 (1¼ IN.)		

REPAIR OF TRANSVERSE JOINT OF CPCD

SHEET 2 OF 2

Texas Department of Transportation | Design Division Standard

REPAIR OF CONCRETE PAVEMENT

REPCP-14

FILE: repcp14.dgn	DN: TxDOT	CK: HC	DW: HC	CK: AB
©TxDOT DECEMBER 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

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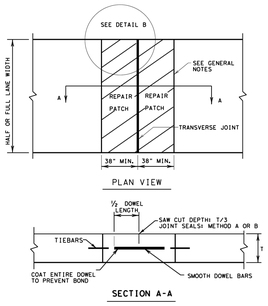
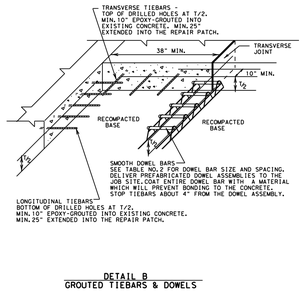


PLAN VIEW

SECTION A-A



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REPAIR OF TRANSVERSE JOINT OF CPCD

SHEET 2 OF 2

Texas Department of Transportation | Design Division Standard

REPAIR OF CONCRETE PAVEMENT

REPCP-14

FILE: repcp14.dgn	DN: TxDOT	CK: HC	DW: HC	CK: AB
©TxDOT DECEMBER 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

#	DATE	CHANGE DESCRIPTION
1	05/01/2024	30% DD SUBMITTAL
2	07/26/2024	100% DD SUBMITTAL
3	01/27/2025	50% CD SUBMITTAL
4	06/17/2025	50% CD RESUBMITTAL
5	08/18/2025	QA/QC & ESTIMATING
6	08/29/2025	95% CD SUBMITTAL
7	12/02/2025	100% CD SUBMITTAL

LEGEND

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Paving Details

12.02.2025

DRAWN BY: | CHECKED BY:

R22301.01

C007

100% CD SUBMITTAL

STATE OF TEXAS — JONATHAN O. GAN — 132244 — LICENSED — PROFESSIONAL ENGINEER

Huitt-Zollars, Inc.
Firm Registration No. F-761

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7	12/02/2025	100% CD SUBMITTAL

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING BRICK PAVERS
- EXISTING BUILDING
- PROPOSED BUILDING RENOVATION
- PROPOSED CONCRETE PAVING
- PROPOSED SPALLING REPAIR
- PROPOSED CONCRETE SIDEWALK
- EXISTING DRAINAGE FLOW
- EXISTING DRAINAGE SWALE
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE

NOTES:

1. 18" MINIMUM SOLID SLAB SODDING (BERMUDA GRASS) TO BE PLACED ABUTTING ALL NEWLY CONSTRUCTED CURBS, SIDEWALKS AND MOW STRIP.
2. SOD ALL GRASSED AREA DISTURBED DURING CONSTRUCTION.
3. TEXAS ACCESSIBILITY STANDARDS COMPLIANCE REQUIRED.
4. CURB RAMP RUN SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
5. RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
6. CONTRACTOR TO NOTE CURRENT STRIPING/MARKINGS BEFORE BEGINNING WORK AND REPLACE IN-KIND AFTER NEW PAVEMENT PLACEMENT.
7. EXISTING IRRIGATION LOCATED AT ALL OPEN SPACES, CONTRACTOR IS REQUIRED TO REPLACE ANY IRRIGATION DAMAGED DURING DEMOLITION AND CONSTRUCTION.
8. CONTRACTOR TO VERIFY AND MATCH EXISTING GRADES AND TIE INTO EXISTING FEATURES. PLANS SHOW GENERAL SURFACE FLOWS BASED ON EXISTING GRADES.
9. REFER TO SHEET C001 GENERAL NOTE 26 FOR ALL UNDERGROUND UTILITIES.

S 89°29'25" W 166.34'

Δ = 30°35'00"
R = 375.00'
L = 200.14'
CB = S 74°06'10" W
CD = 198.01'

DALLAS POWER & LIGHT COMPANY 15' EASEMENT VOL. 5897 PG. 3579 D.R.D.C.T.

N 59°28'40" E 831.45'

52nd STREET
(60' PUBLIC RIGHT-OF-WAY)

S 59°42'58" W 282.37'

CONTROL POINT NO. 1
N = 6,940,317.52
E = 2,497,160.56
ELEVATION = 498.01'
PK NAIL WITH WASHER SET

CONTROL POINT NO. 4
N = 6,940,708.24
E = 2,496,916.79
ELEVATION = 500.02'
5/8" IRON ROD WITH RED PLASTIC CAP STAMPED "STANTEC" SET

INFILL BETWEEN PAVEMENT AND FENCE MOW STRIP

FF 502.60

S 30°49'53" E 613.78'

VETERANS DRIVE
(60' PUBLIC RIGHT-OF-WAY)

CONTROL POINT NO. 2
N = 6,940,497.36
E = 2,497,262.24
ELEVATION = 494.31'
PK NAIL WITH WASHER SET

CONTROL POINT NO. 3
N = 6,940,668.57
E = 2,497,159.91
ELEVATION = 493.83'
5/8" IRON ROD WITH RED PLASTIC CAP STAMPED "STANTEC" SET

0 15 30 60
SCALE: 1" = 30'

DISD Harry Stone Montessori Academy Renovation Org 212
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FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Proposed Grading Plan

12.02.2025

STATE OF TEXAS
JONATHAN O. GAN
132244
LICENSED
PROFESSIONAL ENGINEER

Huitt-Zollars, Inc.
Firm Registration No. F-761

DRAWN BY:	CHECKED BY:

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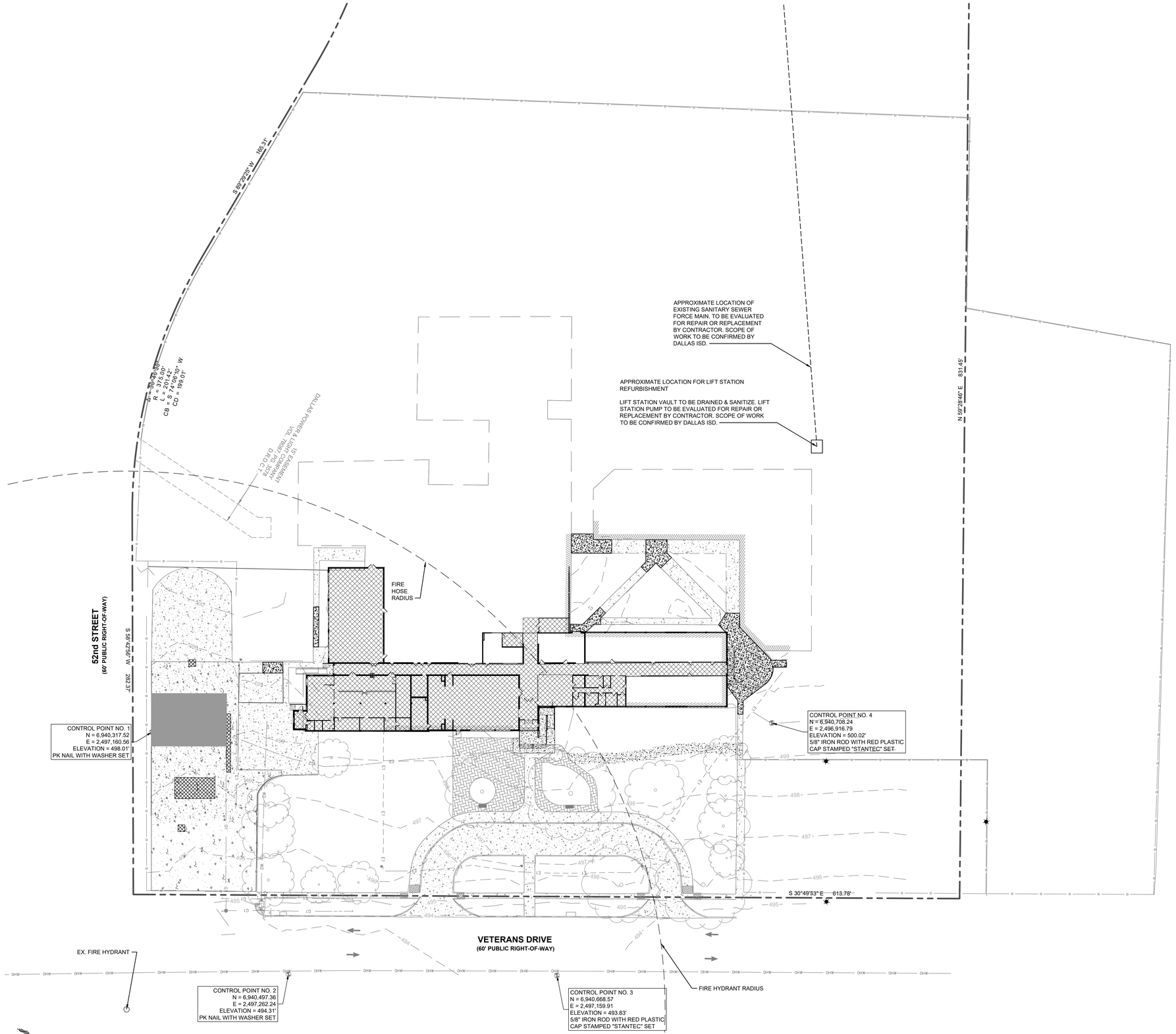

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SUITE 225E
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Moody Nolan PHONE: (214) 377-8662

DRAWING TITLE:

Proposed Utility Plan

12.02.2025

STATE OF TEXAS — JONATHAN O. GAN — 132244 — LICENSED PROFESSIONAL ENGINEER — 12.02.2025

Hutt-Zollars, Inc.
Firm Registration No. F-761

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TYPICAL STRUCTURAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED

ABOVE FINISH FLOOR	—	'AFF
ADDITIONAL	—	ADDN'L
ADJACENT	—	'ADJ.
AGGREGATE	—	'AGGR.
ALTERNATE	—	ALT.
ANCHOR BOLT	—	A.B.
AND	—	&
ANGLE	—	L
APPROVED	—	APPD.
APPROXIMATE	—	APPROX.
ARCHITECT	—	ARCH.
ARCHITECTURAL	—	ARCH'L.
ARCH'L. FINISH SURFACE	—	A.F.S.
AT	—	@
AIR CONDITIONER	—	A/C
AIR HANDLING UNIT	—	AHU

B		
BACK FACE	—	B.F.
BACK TO BACK	—	B. TO B.
BASEMENT	—	BSMT.
BEAM	—	BM.
BEARING	—	BRG.
BELOW FINISH FLOOR	—	BFF
BETWEEN	—	BTWN.
BEVEL (ED)	—	BEV ('D)
BLOCK	—	BLK.
BLOCKING	—	BLKG.
BLOCK-OUT	—	B.O.
BOTTOM	—	BOT.
BRACKET	—	BRKT.
BRICK LEDGE ELEVATION	—	B.L.E.
BRIDGING	—	BRDG.
BUILDING	—	BLDG.
BUILDING LINE	—	B.L.

C		
CANTILEVER	—	CANT.
CAST IRON	—	C.I.
CAST-IN-PLACE	—	C.I.P.
CEILING	—	CLG.
CENTER LINE	—	C.L.
CENTER OF GRAVITY	—	C.G.
CENTER TO CENTER	—	C. TO C.
CHANNEL	—	C
CLEAR OR CLEARANCE	—	CLR.
COLUMN	—	COL.
COMPRESSION	—	C OR COMP.
CONCRETE	—	CONC.
CONCRETE MASONRY UNIT	—	CMU
CONNECTION (S)	—	CONN(S).
CONTINUOUS	—	CONT.
CONTRACTOR	—	CONTR.
CONTROL JOINT	—	CT.J.
CONSTRUCTION	—	CONST.
CONSTRUCTION JOINT	—	C.J.
CORNER	—	COR.
COVER PLATE	—	COV. PL.

D		
DETAIL	—	DET.
DEAD LOAD	—	DL
DEFORMED BAR ANCHOR	—	D.B.A.
DIAGONAL	—	DIAG.
DIAMETER	—	DIA.
DIMENSION(S)	—	DIM(S).
DOVETAIL	—	DVTL.
DOWNSPOUT	—	DS.
DRAWING(S)	—	DWG(S).
DOUBLE	—	DBL.
DOWEL(S)	—	DWL(S).

E		
EACH	—	EA.
EACH FACE	—	E.F.
EACH WAY	—	E.W.
EDGE ANGLE OFFSET	—	E.A.O.
ELECTRICAL	—	ELEC.
ELEVATION	—	EL.
ELEVATOR	—	ELEV.
ENGINEER	—	ENGR.
ENTRANCE	—	ENT.
EQUAL	—	EQ.
EQUIPMENT	—	EQUIP.
EXPANSION	—	EXP.
EXPANSION JOINT	—	E.J.
EXISTING	—	EXIST.
EXTERIOR	—	EXT.
EXTRA STRONG	—	X-STR.

F		
FACE TO FACE	—	F. TO F.
FABRICATOR	—	FABR.
FAR SIDE	—	F.S.
FIELD VERIFY	—	(F.V.)
FINISH(ED)	—	FIN.
FINISHED FLOOR	—	FIN. FL.
FIREPROOF(ING)	—	FP.
FLANGE	—	FLG.
FLOOR	—	FL.
FLOOR DRAIN	—	F.D.
FOUNDATION	—	FDN.

G		
GAGE OR GAUGE	—	GA.
GALVANIZED	—	GALV.
GALVANIZED IRON	—	G.I.
GALVANIZED STEEL	—	G.S.
GENERAL CONTRACTOR	—	G.C.
	—	GEN. CONTR.
GOVERNMENT	—	GOVT.
GRADE	—	GR.
GRADE BEAM	—	GR. BM.

H		
HEADED STUDS	—	H.S.
HEIGHT	—	HT.
HIGH POINT	—	H.P.
HOLLOW STRUCTURAL SHAPE	—	HSS
HORIZONTAL	—	HORIZ.
HOOK	—	HK.

I		
INFORMATION	—	INFO.
INSIDE DIAMETER	—	I.D.
INSIDE FACE	—	I.F.
INTERIOR	—	INT.
INTERMEDIATE	—	INTERM.

J		
JOINT(S)	—	JT(S).
JOIST(S)	—	JST(S).

K		
KIPS (1000 LBS)	—	k
KIP PER LINEAR FOOT	—	KLF
KIP PER SQUARE FOOT	—	KSF

L		
LIGHTWEIGHT CONCRETE	—	LWT. CONC.
LIVE LOAD	—	LL
LONGITUDINAL	—	LONG.
LONG LEG HORIZONTAL	—	LLH
LONG LEG VERTICAL	—	LLV
LOW POINT	—	L.P.

M		
MANUFACTURE(R)	—	MFR.
MASONRY OPENING	—	M.O.
MATERIAL	—	MAT.
MAXIMUM	—	MAX.
MECHANICAL	—	MECH.
MEZZANINE	—	MEZZ.
MIDDLE	—	MID.
MINIMUM	—	MIN.
MISCELLANEOUS	—	MISC.
MOMENT	—	M
MOMENT CONNECTION(S)	—	M.C. OR

N		
NEAR FACE	—	N.F.
NOMINAL	—	NOM.
NON-SHRINK	—	N.S.
NOT IN CONTRACT	—	N.I.C.
NOT TO SCALE	—	N.T.S.
NUMBER	—	NO. OR #

O		
ON CENTER	—	O.C.
OPENING(S)	—	OPNG(S).
OPPOSITE	—	OPP.
OPPOSITE HAND	—	O.H.
OUTSIDE FACE	—	O.F.
OUTSIDE DIAMETER	—	O.D.
OUTSTANDING	—	OSTG.

P		
PAN	—	P
PARALLEL	—	PAR.
PARTITION	—	PARTN.
PENETRATION	—	PEN.
PERPENDICULAR	—	PERP.
PIECE	—	PC.
PLATE	—	PL.
POINT	—	PT.
POUNDS PER SQUARE FOOT	—	P.S.F.
POUNDS PER SQUARE INCH	—	P.S.I.
PRECAST CONCRETE	—	P/C
PRE-ENGINEERED BUILDING MANUFACTURER	—	PEBM
PRE-ENGINEERED METAL BUILDING	—	PEMB
PREFABRICATED	—	PREFAB.
PRELIMINARY	—	PRELIM.
PROJECTION	—	PROJ.

R		
RADIUS	—	R
REINFORCED CONCRETE PIPE	—	RCP
REINFORCE(ING) (ED) (MENT)	—	REINF.
REMAINDER	—	REM. OR R
REQUIRE	—	REQ.
RETENTION SYSTEM REQUIRED	—	RET. SYS. REQ'D.
RISER	—	RIS.
ROOF	—	RF.
ROOF DRAIN	—	R.D.
ROOF OPENING	—	RF. OPNG.
ROOM	—	RM.
ROUND	—	RND.

S		
SCHEDULE(D)	—	SCHED.
SECTION	—	SECT.
SHEAR	—	V
SHEET	—	SHT.
SIDEWALK	—	SW.
SIMILAR	—	SIM.
SPACE	—	SPA.
SPECIFICATION(S)	—	SPEC(S)
SPECIFIED	—	SPEC'D.
SQUARE FOOT (FEET)	—	S.F.
STANDARD	—	STD.
STEEL	—	STL.
STIFFENER	—	STIFF.
STRAIGHT	—	STR.
STIRRUPS	—	STIR.
STRUCTURE	—	STRUCT.
STRUCTURAL	—	STRUCT'L.
SYMMETRICAL	—	SYM.
SUBCONTRACTOR	—	SUBCONTR.
SUPPORT(S)	—	SUPT(S).

T		
TAPERED BEAM	—	T.B.
TEMPERATURE	—	TEMP.
TENSION	—	T
TERRAZZO	—	TERR.
THICK	—	THK.
TONGUE & GROOVE	—	T & G
TOP AND BOTTOM	—	T & B
TOP OF	—	T.O.
TOP OF BEAM	—	T.O.B.
TOP OF FOOTING	—	T.O.F.
TOP OF PIER	—	T.O.P.
TOP OF PIER CAP	—	T.O.P.C.
TOP OF RETAINING WALL	—	T.R.W.
TOP OF STEEL	—	T.O.S.
TOP OF STRUCTURAL CONCRETE	—	T.O.S.C.
TOP OF WALL	—	T.O.W.
TREAD	—	TR.
TUBE STEEL	—	TS
TYPICAL	—	TYP.

U		
UNLESS NOTED OTHERWISE	—	U.N.O.

V		
VERTICAL	—	VERT.

W		
WATERSTOP	—	WS.
WATERPROOFING	—	WPFG.
WELDED WIRE MESH	—	W.W.M.
WIND BRACE	—	WB
WIND LOAD	—	W.L.
WINDOW	—	WDW.
WITH	—	W/
WORK POINT	—	W.P.
WOOD	—	WD.
WROUGHT IRON	—	W.I.

TYPICAL SYMBOLS LEGEND

WB-1 — INDICATES WIND BRACE - SEE WIND BRACE ELEVATIONS.

TRUSS — INDICATES TRUSS - SEE TRUSS ELEVATIONS.

INDICATES MOMENT CONNECTION - SEE MOMENT CONNECTION DETAILS.

INDICATES STEEL BEAM SPLICE - SEE STRUCTURAL STEEL SIMPLE BEAM CONNECTION DETAILS SBX-1.

INDICATES STRUCTURE OVER VOID - SEE EXPANSIVE CLAY SOIL DETAILS CES-1.

INDICATES THAT COLUMN STARTS UPWARD FROM THIS LEVEL.

INDICATES THAT COLUMN STOPS AT THIS LEVEL.

STRUCTURAL SYMBOLS

THE FOLLOWING SYMBOLS ARE USED TO REPRESENT THE MATERIALS SHOWN ON THE STRUCTURAL DRAWINGS. SEE SPECIFICATIONS AND GENERAL NOTES FOR MATERIAL QUALITIES REQUIRED.

A.F.S. — ARCHITECTURAL FINISHED SURFACE

CAST-IN-PLACE CONCRETE

STRUCTURAL PRECAST CONCRETE

SAND GRAVEL, OR LOW P.I. FILL

EARTH

ROCK

ARCHITECTURAL PRECAST CONCRETE

NON-SHRINK GROUT

SAND CEMENT GROUT

STYROFOAM

EXISTING

C.M.U.

BRICK

STRUCTURAL STEEL

WOOD (CONTINUOUS)

WOOD (NON-CONTINUOUS)

PLYWOOD

GLUE LAMINATED LUMBER (GLU-LAM)

MICRO LAMINATED LUMBER (MICRO-LAM)

RTU — ROOF TOP MECHANICAL UNIT ON PLAN

BEAM BOTTOM CHORD BRACING ON PLAN

TYPICAL PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATION RELATED TO DATUM ELEVATION = 100'-0" SHOWN ON DRAWINGS.
   - SEE PLAN FOR TOP OF STRUCTURAL CONCRETE (T.O.S.C.) ELEVATION.
   - T.O.S. EL. = BOTTOM OF METAL DECK ELEVATION SEE PLAN FOR TOP OF STEEL (T.O.S.) ELEVATION.
   - T.O. WOOD EL. = TOP OF PLYWOOD DECK / TONGUE & GROOVE DECK ELEVATION. SEE PLAN FOR TOP OF WOOD ELEVATION.
2. SHEET INDEX.
   THE DETAILS IN THE DRAWINGS, INCLUDING THOSE DRAWINGS REFERENCED BY THIS INDEX, WHICH ARE DESIGNATED AS "TYPICAL DETAILS", APPLY GENERALLY TO THE CONSTRUCTION IN ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE SPECIFICALLY REFERENCED IN THE DRAWINGS.

SHEET LIST

SHT. NO.	SHEET NAME
S001	TYPICAL ABBREV., SYMBOLS, PLAN & GENERAL NOTES
S002	GENERAL NOTES
S200	OVERALL FOUNDATION PLAN
S201	PARTIAL FRAMING PLANS
S202	PARTIAL FRAMING PLANS
S203	OVERALL ROOF PLAN
S204	PARTIAL ROOF FRAMING PLANS
S300	EXPANSIVE CLAY SOIL DETAILS
S301	CASED STRAIGHT SHAFT PIERS
S302	TYPICAL FOUNDATION DETAILS
S303	FOUNDATION SECTIONS AND DETAILS
S400	SIMPLE BEAM CONNECTION DETAILS
S401	TUBE COLUMN SCHEDULE AND DETAILS

Grand total: 13

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR DROPS, FLOOR SLOPES, CURBS, MISCELLANEOUS ELEVATIONS, DETAILS AND DIMENSIONS NOT SHOWN ON PLAN.
4.

   CENTERLINE OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED ACCORDING TO THE FOLLOWING INFORMATION, U.N.O.:
   A. FREESTANDING COLUMNS: CENTERLINE OF THE COLUMN
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN THE OTHER DIRECTION. AT CORNER CONDITIONS, CENTERLINES OF INTERSECTING GRADE BEAMS OR WALLS.
   C. CCOLUMNS EMBEDDED IN GRADE BEAMS OR WALLS (PILASTERS): CENTERLINE OF THE COLUMN
5. SEE ARCH'L. DWGS. FOR SIZES & LOCATIONS OF ROOF OPENINGS.
6. REPETITIVE MEMBERS SUCH AS PURLINS AND JOISTS SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED POINTS, U.N.O.
7. NOTE TO CONTRACTOR:
   FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION OF MATERIALS AND CONSTRUCTION.

GENERAL

THE FOLLOWING GENERAL NOTES CONSTITUTE A MAJOR PART OF THE PLANS AND SPECIFICATIONS. STRICT COMPLIANCE WITH THESE NOTES IS ESSENTIAL TO THE PROPER CONSTRUCTION OF THE BUILDING.

1. REFER TO THE PLAN NOTES, LOCATED IN THESE GENERAL NOTES, FOR APPLICATION OF DETAILS WHICH ARE DESIGNATED AS "TYPICAL DETAILS" IN THIS SET OF DRAWINGS.
2. SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
3. VERIFY, OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
4. LOCATE EXISTING REINFORCEMENT, USING APPROPRIATE IMAGING EQUIPMENT, PRIOR TO CUTTING OR DRILLING INTO EXISTING CONCRETE. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. IF THE REQUIRED OPERATIONS MAKE DAMAGING EXISTING REINFORCING UNAVOIDABLE, INFORM ARCHITECT SO THAT THE CONDITION MAY BE EVALUATED AND ALTERNATIVE DIRECTIONS GIVEN.
5. MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT ES REPORT (BY ICC EVALUATION SERVICE, INC.) OR ICBO REPORT (BY INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS). MATERIALS OR PRODUCTS THAT DO NOT HAVE AN ES OR ICBO REPORT INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.

EXISTING CONDITIONS

1. FIELD VERIFY ALL RELEVANT DIMENSIONS AND CONDITIONS AT EXISTING STRUCTURES PRIOR TO STARTING SHOP DRAWINGS AND THE CONSTRUCTION PROCESS IN THOSE AREAS. SUBMIT APPROPRIATE PLANS AND DETAILS REFLECTING THE FIELD VERIFIED EXISTING CONDITIONS FOR THE ARCHITECT'S USE.
2. EXISTING CONDITIONS WHICH REQUIRE MODIFICATIONS TO THE DESIGN OF THE PROPOSED CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. THE TESTING LABORATORY SHALL EXAMINE AND REPORT ON THE CONDITION OF PORTIONS OF THE EXISTING STRUCTURE WHICH WILL BE ALTERED OR WHICH WILL SUPPORT NEW FRAMING, WITH SPECIAL EMPHASIS ON THE FOLLOWING:
   A. EXISTING BOLTED CONNECTIONS: IDENTIFY MISSING, DAMAGED OR OTHERWISE DETERIORATEDBOLTS AND CONNECTION PLATES.
   B. EXISTING WELDED CONNECTIONS: VERIFY THAT WELDS WERE COMPLETED AND ARE STILL IN GOOD CONDITION, SUITABLE FOR SUPPORT OF ADDITIONAL LOADS SHOWN ON DRAWINGS.
   C. GENERAL CONDITION OF FRAMING IN AREAS TO BE LOADED OR ALTERED. CONFIGURATION AND EVIDENCE OF EXCESSIVE CORROSION OR OTHER DAMAGE SHALL BE REPORTED.

SUBSTITUTIONS

1. ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SAVINGS TO BE DEDUCTED FROM THE CONTRACT.

CODES & DESIGN SPECIFICATIONS

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE.
2. DISD TECHNICAL DESIGN GUIDELINES.
3. STRUCTURAL STEEL: AISC 360-16 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS."
4. STRUCTURAL CONCRETE: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)," THE AMERICAN CONCRETE INSTITUTE.
5. STRUCTURAL MASONRY: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)," THE AMERICAN CONCRETE INSTITUTE.
6. ASCE 7-16: "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES."

FIRE RESISTANCE

1. THE STRUCTURAL SYSTEM AND CONSTRUCTION DETAILS ARE DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

FLOOR ASSEMBLY:	0 HOURS
ROOF ASSEMBLY:	0 HOURS
STRUCTURAL FRAME:	0 HOURS
EXTERIOR BEARING WALLS:	0 HOURS
INTERIOR BEARING WALLS:	0 HOURS

2. STRUCTURAL FRAME CONSISTS OF COLUMNS AND MEMBERS FRAMING INTO COLUMNS, INCLUDING GIRDERS, BEAMS, TRUSSES AND BRACING.
3. THE STRUCTURAL FRAMING IS CONSIDERED TO BE "RESTRAINED" IN ACCORDANCE WITH THE U.L. "FIRE RESISTANCE DIRECTORY," FOR PURPOSES OF ESTABLISHING THE FIRE RESISTANCE RATING.
4. STEEL BEAMS WHICH ARE LIGHTER THAN THE MINIMUM SIZE SET FORTH IN THE REFERENCED U.L. ASSEMBLY SHALL RECEIVE ADDITIONAL SPRAYED FIREPROOFING AS REQUIRED TO ACHIEVE THE DESIGNATED RATING.

SPECIAL INSPECTION REQUIREMENTS

1. PERIODIC SITE OBSERVATIONS BY THE ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF DETERMINING GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THOSE LIMITED OBSERVATIONS ARE NOT A SUBSTITUTE FOR INSPECTIONS AND TESTING PERFORMED BY THE OWNER'S QUALIFIED, INDEPENDENT TESTING LABORATORY, NOR ARE THEY INTENDED TO IDENTIFY ALL DEFECTS AND DEFICIENCIES IN THE WORK BY THE CONTRACTOR. THOSE OBSERVATIONS DO NOT FULFILL ANY PART OF THE SPECIAL INSPECTIONS REQUIREMENTS GIVEN IN THE SPECIFICATIONS. THE DESIGNATED SPECIAL INSPECTOR IS SOLELY RESPONSIBLE FOR FULFILLING THE SPECIAL INSPECTION REQUIREMENTS AS OUTLINED HERE AND DEFINED IN THE SPECIFICATIONS
2. REFER TO THE SPECIFICATIONS FOR CODE MANDATED MATERIALS TESTING AND INSPECTION REQUIREMENTS FOR STRUCTURAL WORK.
3. ITEMS OF STRUCTURAL CONSTRUCTION WHICH REQUIRE SPECIAL INSPECTION INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   FOUNDATION EXCAVATIONS AND FILL OPERATIONS
   INSTALLATION OF DRILLED CONCRETE PIERS AND FOOTINGS
   PLACEMENT OF STRUCTURAL CONCRETE
   PLACEMENT OF CONCRETE REINFORCING
   PLACEMENT OF ANCHOR BOLTS PLACED IN CONCRETE OR MASONRY
   INSTALLATION OF DRILLED-IN CONCRETE OR MASONRY ANCHORS (EXPANSION, FRICTION, CEMENTED, OR GROUTED ANCHORS)
   CONSTRUCTION OF REINFORCED MASONRY
   FABRICATION AND ERECTION OF STRUCTURAL STEEL
   WELDING AND BOLTING OF STEEL CONNECTIONS
4. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS PER SECTION 1705 OF THE IBC HAVE NOT BEEN LISTED HERE. REFER TO ARCH/MEP FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

Datum Rios
www.datumrios.com | Co. Reg. No. F-16874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION
1	DATE	REVISION

DISD INDEPENDENT SCHOOL DISTRICT — BARNEY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244
PHONE: (214) 377-8662

DRAWING TITLE:
TYPICAL ABBREV., SYMBOLS, PLAN & GENERAL NOTES

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED — REGISTERED — PROFESSIONAL ENGINEER
09/19/2025

12.02.2025
DRAWN BY: AG | CHECKED BY: SS
R22301.01

S001

100% CONSTRUCTION DOCUMENTATION

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DESIGN LOADS

1. DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS AND ALLOWANCES FOR PERMANENT PARTITIONS, PERMANENT FIXTURES, FINISHES, ROOFING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION MATERIALS SHOWN OR SPECIFIED.

2. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT, AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

3. DESIGN LIVE LOADING IS AS FOLLOWS:

STANDARD ROOF	20	PSF
ROOF OVER KITCHEN	30	PSF
MINIMUM AT ALL OCCUPIED FLOORS INCLUDING 20 PSF PARTITION ALLOWANCE	100	PSF
PUBLIC ASSEMBY AREAS	100	PSF
PUBLIC CORRIDORS	100	PSF
KITCHEN (INCLUDES 25 PSF FOR KITCHEN EQUIPMENT)	100	PSF
MECHANICAL ROOM (MIN.)	150	PSF
HANDRAIL IMPACT LOAD	50	PLF

4. LIVE LOAD REDUCTIONS, WHERE PERMISSIBLE, ARE COMPUTED IN ACCORDANCE WITH THE BUILDING CODE.

5. KITCHEN AREA DESIGN LIVE LOAD INCLUDES AN ALLOWANCE FOR THE WEIGHT OF KITCHEN EQUIPMENT. SUBMIT FINAL LAYOUT SHOWING LOCATION AND WEIGHT OF ALL EQUIPMENT TO THE ENGINEER FOR COMPARISON WITH ASSUMED LOADS.

6. DESIGN WIND LOADING IS AS FOLLOWS (NOTE: PER ASCE 7-16, WIND LOADS ARE ULTIMATE. SERVICE LOADS MAY BE OBTAINED BY DIVIDING THE STATED LOADS BY 1.6.):

WIND DESIGN OPTION	DIRECTIONAL PROCEDURE
BASIC WIND SPEED (3-SECOND GUST) ULTIMATE	112 MPH
RISK CATEGORY	III
EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR, Kzt	1.0
DIRECTIONALITY FACTOR, Kd	0.85
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	0.18
RELIABLE ROOF DEAD LOAD TO RESIST UPLIFT (SERVICE)	5 PSF

ROOF PRESSURE(+)/ SUCTION(-) LOADS (NET = INCLUDING INTERNAL PRESSURE) – LOADS MAY BE LINEARLY INTERPOLATED BETWEEN VALUES FOR THE GIVEN TRIBUTARY AREAS, HOWEVER; UTILIZED VALUES MAY NOT BE LESS THAN 16 PSF, ULTIMATE, IN EITHER DIRECTION, NORMAL TO THE COMPONENT SURFACE:

INTERIOR ZONES – MORE THAN 5 FT FROM EDGE, HIP, OR RIDGE (ZONE 1)	
10 SQ.FT.	+12*/-30 PSF
100 SQ.FT.	+10*/-28 PSF
>500 SQ.FT.	+10*/-28 PSF
END ZONES - WITHIN 5 FT OF EDGE, HIP, OR RIDGE (ZONE 2)	
10 SQ.FT.	+12*/-51 PSF
100 SQ.FT.	+10*/-33 PSF
>500 SQ.FT.	+10*/-33 PSF
CORNER ZONES - 5 FT FROM CORNER OF EDGE, HIP OR RIDGE AT OVERLAPPING EDGES (ZONE 3)	
10 SQ.FT. OF TRIBUTARY AREA	+12*/-77 PSF
100 SQ.FT. OF TRIBUTARY AREA	+10*/-33 PSF
>500 SQ.FT.	+10*/-33 PSF
OVERHANGS AT END ZONES - WITHIN 5 FT OF EDGE, HIP OR RIDGE (ZONE 2)	
10 SQ. FT.	-49 PSF
100 SQ. FT.	-46 PSF
≥500 SQ. FT.	-33 PSF
OVERHANGS AT CORNERS - 5 FT FROM CORNER OF EDGE, HIP OR RIDGE AT OVERLAPPING EDGES (ZONE 3)	
10 SQ. FT.	-77 PSF
100 SQ. FT.	-25 PSF
≥500 SQ. FT.	-25 PSF
ALL PRESSURE/SUCTION	
INTERIOR ZONES - MORE THAN 5 FT FROM EDGE (ZONE 4)	
10 SQ. FT.	+28/-30 PSF
100 SQ. FT.	+23/-27 PSF
≥500 SQ. FT.	+21/-23 PSF
END ZONES - WITHIN 5 FT OF EDGE (ZONE 5)	
10 SQ. FT.	+28/-27 PSF
100 SQ. FT.	+23/-29 PSF
≥500 SQ. FT.	+21/-23 PSF
WALL PARAPETS:	
INTERIOR ZONES - MORE THAN 5 FT FROM EDGE (ZONE 4)	
10 SQ. FT.	+70 PSF
100 SQ. FT.	+47 PSF
≥500 SQ. FT.	+45 PSF
END ZONES - WITHIN 5 FT OF EDGE (ZONE 5)	
10 SQ. FT.	+95 PSF
100 SQ. FT.	+47 PSF
≥500 SQ. FT.	
INTERIOR PRESSURE ON STRUCTURAL ELEMENTS (SERVICE)	5 PSF

7. SEISMIC DESIGN DATA (IBC):

RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATIONS, SS & S1	0.093/0.053
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS SDS /SD1	0.081/0.053
SEISMIC DESIGN CATEGORY	A

BASIC-SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAME (COLD FORMED STEEL) WALL SYSTEM USING FLAT STRAP BRACING	STEEL ORDINARY MOMENT FRAMES
DESIGN BASE SHEAR	0.114K	0.202K
SEISMIC RESPONSE COEFFICIENT, CS	0.0319	0.0364
RESPONSE MODIFICATION FACTOR, R	4	3.5
ANALYSIS PROCEDURE	ELF	ELF
DEFLECTION AMPLIFICATION FACTOR	3.5	3

8. SNOW LOADING (ASCE 7, SECTION 7):

GROUND SNOW LOAD .... 5 PSF

9. STACKS OF MATERIALS OR OTHER CONSTRUCTION LOADS PLACED ON THE STRUCTURE SHALL NOT EXCEED THE STATED DESIGN LIVE LOAD FOR THE AREA AFFECTED UNLESS ADEQUATELY SHORED.

CONCRETE MIX

1. PROVIDE CONCRETE HAVING THE FOLLOWING GENERAL CHARACTERISTICS:

CLASS	28-DAY STRENGTH (PSI)	AGG. TYPE	SIZE (IN.)	MAX. USAGE	
A	4000	5-7	HDRK	1 1/2	CASED STRAIGHT SHAFT PIERS, DRILLED PIER WITH UNDERREAMED SHAFT
B	4000	3-5	HDRK	1	GRADE BEAMS, SLABS-ON-VOID BOXES

2. WORKABILITY ADMIXTURES MAY BE UTILIZED, PROVIDED THAT BATCH PROPORTIONS ARE DETERMINED IN THE MANNER DESCRIBED IN THE SPECIFICATIONS.

3. FLY ASH MAY BE USED WITHIN THE SPECIFIED PROPORTION LIMITS, BUT THE CONTRACTOR SHALL FIRST VERIFY COMPATIBILITY WITH CURING COMPOUNDS, SEALERS, BOND BREAKER, FLOORING ADHESIVES AND OTHER MATERIALS PROPOSED TO BE IN CONTACT WITH THE CONCRETE.

4. PROVIDE FIVE PERCENT (PLUS OR MINUS 1 1/2 PERCENT) AIR ENTRAINMENT IN CONCRETE PERMANENTLY EXPOSED TO THE WEATHER AND IN ALL LIGHTWEIGHT CONCRETE. USE OF AIR ENTRAINMENT, AND CORRESPONDING REDUCTION OF THE WATER/CEMENT RATIO, MUST BE NOTED ON THE MIX DESIGNS. DO NOT USE AIR IN SLABS WHICH HAVE A TROWEL FINISH.

5. USE OF ACCELERATING OR SET-RETARDING ADMIXTURES REQUIRES PRIOR APPROVAL OF THE ARCHITECT. IN GENERAL, USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.

6. CEMENT SHALL BE TYPE I OR TYPE III (ASTM C 150), EXCEPT AS FOLLOWS:

CLASS OF CONCRETE	CEMENT TYPE
A	I/II

7. MAXIMUM WATER-CEMENT RATIO FOR CONCRETE SLABS-ON-GRADE AND SLABS-ON-VOID BOXES SHALL BE 0.50. CONTRACTOR SHALL USE LOWER WATER-CEMENT RATIO IF IT IS DETERMINED THAT THIS IS NEEDED TO PLACE FLOORING AS SCHEDULED.

8. SLUMP LIMITS APPLY AT THE TRUCK AT THE TIME OF DISCHARGE EXCEPT THAT PUMPED CONCRETE SHALL BE SAMPLED AT THE DISCHARGE END OF THE HOSE. WHEN A SUPERPLASTICIZER IS USED, THE SLUMP SHALL BE MEASURED AT THE TRUCK BEFORE INTRODUCING THE SUPERPLASTICIZER. STRENGTH TESTS SHALL BE MADE ON CONCRETE AS PLACED WITH ALL ADDITIVES.

CONCRETE REINFORCING

1. REINFORCING STEEL SHALL BE NEW OR RECYCLED DOMESTIC DEFORMED BILLET STEEL, CONFORMING TO ASTM A 615, GRADE 60.

2. REINFORCING STEEL SHOWN IN SECTIONS OF BEAMS, WALLS AND COLUMNS IS SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES, AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

3. REFER TO DOWEL SCHEDULE, SHEET S302, FOR ALL BARS MARKED "DWL" ON THE DRAWINGS.

4. DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ACI DETAILING MANUAL.

5. WHERE BAR TYPES FROM THE BAR BENDING DIAGRAM ARE SPECIFIED, PROVIDE BARS ACCORDINGLY. OTHERWISE, DETAIL BARS IN BEAMS, COLUMNS, SLABS, AND WALLS AS FOLLOWS:

   A. RUN TOP AND BOTTOM BARS CONTINUOUS, WITH SPLICES AND HOOKS AS DESCRIBED BELOW.

   B. PROVIDE STANDARD 90 DEGREE HOOK ON TOP BARS AT CANTILEVER ENDS.

   C. SPLICE TOP AND INTERMEDIATE BARS AT THE CENTER LINE BETWEEN MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.

   D. SPLICE BOTTOM BARS DIRECTLY OVER MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.

   E. SPLICE VERTICAL BARS IN WALLS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. HORIZONTAL BARS SHALL BE SPLICED AS SPECIFIED FOR TOP, BOTTOM, AND INTERMEDIATE BARS OF BEAMS.

   F. CENTER BARS NOTED AS "AT SUPT'S." OVER MEMBER SUPPORTS, AND CENTER BARS NOTED AS "BTWN. SUPT'S." BETWEEN SUPPORTS.

   G. PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #11 SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.

   H. ALL BAR SPLICES IN BEAMS, SLABS, AND WALLS SHALL BE 30 BAR DIAMETERS, EXCEPT THAT SPLICES IN HORIZONTAL WALL BARS AND INTERMEDIATE BEAM BARS SHALL BE 66 BAR DIAMETERS.

   I. PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO CORNER BAR DETAILS ON DETAIL 2/S302.

6. BARS SHOWN IN THE SCHEDULE TO HOOK AT DISCONTINUOUS ENDS SHALL HAVE THE HOOK PLACED HORIZONTALLY AT EXTERIOR CORNERS.

7. PROVIDE NO. 3 DOWELS X 2'-0" AT 1'-6" ON CENTER, WITH A 90 DEGREE HOOK AT ALL EDGES OF CONCRETE SLABS, UNLESS DETAILED OTHERWISE.

8. PROVIDE FOUNDATION DOWELS TO MATCH MASONRY WALL REINFORCEMENT. DOWELS SHALL EXTEND A MINIMUM OF 60 BAR DIAMETERS ABOVE AND 30 BAR DIAMETERS BELOW TOP OF FOUNDATION.

9. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, MEASURED TO NEAREST BAR, STIRRUP OR TIE:

   A. AT BEAM SURFACES DEPOSITED AGAINST THE GROUND (WITH OR WITHOUT VAPOR RETARDER): 3".

   B. AT FORMED FACES OF BEAMS, EXPOSED TO RAIN OR IN CONTACT WITH THE GROUND: 2".

   C. AT FORMED FACES OF BEAMS NOT EXPOSED TO RAIN OR SOIL: 1 1/2".

   D. AT BEAM AND SLAB BOTTOMS FORMED WITH FIBERBOARD VOID BOXES: 2".

   E. FORMED SURFACES OF SLABS:
      INTERIOR EXPOSURE: 1"
      #5 BAR AND SMALLER, EXPOSED TO WEATHER: 1 1/2"
      #6 BAR AND LARGER, EXPOSED TO WEATHER: 2"

   F. TOP STEEL IN SLABS:
      INTERIOR EXPOSURE: 1"
      EXPOSED TO WEATHER: 2"

   G. TOP STEEL IN BEAMS:
      INTERIOR EXPOSURE: 1 1/2"
      EXPOSED TO WEATHER: 2"

12. MAINTAIN THE SPECIFIED COVER DIMENSION WITHIN A TOLERANCE OF PLUS OR MINUS 3/8" EXCEPT FOR SLABS-ON-GRADE AND SOIL-FORMED MEMBERS, WHERE 5/8" TOLERANCE IS PERMITTED. EXTRA COVER WEAKENS THE MEMBER AND REDUCED COVER LEADS TO CORROSION.

13. REFER TO TYPICAL STEEL CONNECTION DETAIL SHEET (S400) FOR ADDITIONAL REINFORCING REQUIRED AT STEEL BEAM CONNECTION EMBED PLATES.

PENETRATING EXISTING SLABS

1. LAY OUT ALL PROPOSED FLOOR PENETRATIONS. OPENINGS SHALL BE STAGGERED SO NO REINFORCING WILL BE CUT TWICE. IF POSSIBLE LOCATE FLOOR OPENING TO NOT CUT EXISTING SLAB REINFORCING.

2. ONCE OPENINGS, SLEEVES AND ANCHORS ARE LOCATED, ENGAGE TESTING LABORATORY TO LOCATE TOP AND BOTTOM REINFORCING BY X-RAY OR OTHER SENSING DEVICE AND MARK LINES OF REINFORCING ON THE SLAB AT THESE LOCATIONS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT TO OBSERVE ALL CONDITIONS WHERE BARS ARE LIKELY TO BE CUT.

3. CORNERS OF SQUARE OR RECTANGULAR OPENINGS MAY NOT BE OVERCUT BY SAWING, TO AVOID CUTTING REINFORCING BEYOND THE EDGES OF THE OPENINGS. REINFORCING MAY BE CUT ONLY WITHIN LIMITS OF NEW OPENINGS, AND ONLY ON APPROVAL.

4. CORNERS OF OPENINGS MAY BE CORE DRILLED AND CUT BETWEEN CORES OR CORES MAY BE CUT ALONG EDGES OF OPENING AND CHIPPED OUT.

5. DO NOT CORE OR CUT THRU EXISTING BEAMS OR JOIST.

6. AFTER SETTING FLOOR DRAINS IN PLACE, FORM BOTTOM OF OPENING AND FILL ALL VOIDS AROUND DRAINS SOLID WITH FLOWABLE HIGH-STRENGTH, NON-SHRINK GROUT. GROUT SHALL CONFORM TO ASTM C1107.

7. WATERPROOF OR SEAL CONCRETE AND GROUT AROUND FLOOR DRAINS SO THAT WATER CANNOT SEEP INTO JOINTS OR PENETRATE CONCRETE, LEADING TO CORROSION OF THE REINFORCING THAT HAS BEEN CUT.

CAST-IN-PLACE CONCRETE

1. CONSTRUCTION JOINTS IN BEAMS AND SLABS SHALL ONLY OCCUR WITHIN 2'-0" OF MIDSPAN BETWEEN SUPPORTS. SUBMIT A DIAGRAM OF ALL PROPOSED CONSTRUCTION JOINTS WHICH ARE NOT SPECIFICALLY SHOWN ON THESE DRAWINGS (REFER TO SPECIFICATIONS).

2. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND ALL EMBEDDED ITEMS SHALL BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". INSTALLATION OF THESE ITEMS SHALL BE COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS.

3. SET FORMS TO FOLLOW SLOPES AND GRADES DEFINED ON PLAN, KEEPING MEMBER DEPTHS CONSTANT AT DEPTHS DETAILED OR SCHEDULED, UNLESS NOTED OTHERWISE. SLOPE UNIFORMLY BETWEEN ELEVATIONS GIVEN. BUILD IN CAMBER WHERE SPECIFIED.

4. ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH ALL PROVISIONS SPECIFIED IN ACI 318, SECTION 28.8, WITH THE FOLLOWING SPECIFIC REQUIREMENTS:

   A. THE MAXIMUM OUTSIDE DIAMETER OF THE CONDUITS AND PIPES SHALL BE 1 1/2". NONE PERMITTED IN SLABS THINNER THAN 4 1/2".

   B. THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".

   C. AT FORMED SLABS, LOCATE IN MIDDLE THIRD OF SLAB THICKNESS BETWEEN THE TOP AND BOTTOM MAT OF REINFORCING. AT BEAMS, LOCATE INSIDE BEAM STIRRUP. IN JOISTS, LOCATE AT CENTER LINE, AT LEAST 6" FROM BOTTOM.

   D. DO NOT DISPLACE REINFORCING STEEL FROM ITS PROPER POSITION.

5. SLEEVES OR PIPES PASSING HORIZONTALLY THROUGH BEAMS MUST BE LOCATED IN THE MIDDLE THIRD OF THE SPAN AND WITHIN THE MIDDLE THIRD OF THE BEAM DEPTH. MAXIMUM DIAMETER SHALL BE ONE THIRD OF THE MEMBER DEPTH. SPACE AT LEAST 3 DIAMETERS CLEAR APART AND ADD ONE STIRRUP EACH SIDE OF EACH SLEEVE.

6. PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS, IN ACCORDANCE WITH THE TYPICAL CONCRETE DETAILS.

7. TOP SURFACES OF CONCRETE BEAMS WHICH SUPPORT PRECAST CONCRETE MEMBERS SHALL RECEIVE A TROWELED SMOOTH FINISH AND SHALL BE STRAIGHT, TRUE AND LEVEL.

8. PLACE WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.

9. THE HOUSEKEEPING PADS UNDER MECHANICAL EQUIPMENT ARE SHOWN AND SPECIFIED ON THE MECHANICAL DRAWINGS. REINFORCE HOUSEKEEPING PAD WITH #3@8" ON CENTER EACH WAY, UNLESS SHOWN OTHERWISE ON MECHANICAL DRAWINGS.

FIELD DRILLED EXPANSION BOLTS

1. WHERE FIELD DRILLED EXPANSION BOLTS ARE PROPOSED FOR AN APPLICATION OR LOCATION NOT SHOWN ON THESE DRAWINGS, THE PRODUCT AND ITS INTENDED APPLICATION SHALL BE SUBMITTED FOR APPROVAL.

2. EXPANSION BOLTS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS.

3. ONLY ONE LENGTH OF BOLT SHALL BE PRESENT ON THE JOBSITE FOR EACH BOLT DIAMETER, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

4. EXPANSION BOLTS, OF THE DIAMETER AND EMBEDMENT SHOWN ON THE DRAWINGS, SHALL BE INSTALLED BY PERSONNEL TRAINED TO INSTALL EXPANSION BOLTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). WHERE PROVISIONS OF THE ABOVE REFERENCED DOCUMENTS ARE IN CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

5. ALL POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH THE BUILDING CODE. INSTALLATION OF EXPANSION BOLTS SHALL BE CONTINUOUSLY INSPECTED BY THE TESTING LABORATORY, TO ENSURE THAT HOLES ARE OF PROPER DIAMETER AND LENGTH, THAT MINIMUM INSTALLATION TORQUES ARE OBTAINED, AND THAT BOLTS ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

6. BOLTS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF THE CONCRETE. THE MAXIMUM DEVIATION FROM PERPENDICULAR SHALL BE 6 DEGREES. ALL BOLTS INSTALLED OUTSIDE OF THE SPECIFIED TOLERANCE SHALL BE CONSIDERED UNACCEPTABLE.

7. THE CONTRACTOR SHALL CREATE A TEMPLATE FOR EACH BOLT GROUP PRIOR TO FABRICATING HOLES IN CONNECTION PLATES. TEMPLATES SHALL BE MADE AFTER LOCATING EXISTING REINFORCING STEEL WITH FERROSCAN OR SIMILAR NON-DESTRUCTIVE REINFORCING IMAGING DEVICE. POSITION BOLT HOLES SO AS NOT TO CONFLICT WITH THE EXISTING REINFORCING. BOLT POSITIONS MAY BE ADJUSTED IN THE FIELD A MAXIMUM OF 1 1/2" FROM THE DIMENSIONS SHOWN ON THE DETAILS, TO AVOID CONFLICTS WITH THE EXISTING REINFORCING STEEL.

8. SUBMIT DRAWINGS OF TEMPLATES SHOWING HOLE LOCATIONS PRIOR TO FABRICATION OF CONNECTION PLATES.

9. HOLES SHALL BE DRILLED IN A CONTINUOUS OPERATION AVOIDING FREQUENT REMOVAL OF THE DRILL FROM THE HOLE. AFTER DRILLING, ALL DUST AND OTHER FOREIGN MATTER SHALL BE BLOWN OUT OF THE HOLE WITH COMPRESSED AIR.

10. HOLES DRILLED IN THE CONCRETE SHALL BE SAME NOMINAL DIAMETER AS THE BOLT. USE THE BIT TYPE AND SIZE RECOMMENDED BY THE BOLT MANUFACTURER. HOLES SHALL NOT BE ENLARGED OR REDIRECTED ANYWHERE ALONG THEIR LENGTH.

11. ALL ABANDONED HOLES DRILLED IN THE CONCRETE SHALL BE COMPLETELY FILLED WITH EPOXY GROUT.

12. TIGHTEN NUTS AGAINST SMOOTH WASHERS TO THE MINIMUM TORQUE RECOMMENDED BY THE MANUFACTURER.

13. HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF LARGER DIAMETER HOLES ARE NECESSARY FOR ERECTION PURPOSES THE CONTRACTOR SHALL PROVIDE PLATE WASHERS SUFFICIENTLY WELDED TO THE CONNECTION PLATE TO TRANSFER THE SPECIFIED LOAD.

FIELD DRILLED DOWELS AND ANCHOR RODS

1. FIELD DRILLED DOWELS AND ANCHOR RODS TO BE SET IN HARDENED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS.

2. DOWELS AND THREADED RODS, OF THE SIZE, TYPE, AND EMBEDMENT SHOWN ON THE DRAWINGS, SHALL BE INSTALLED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND AS INDICATED ON THE DRAWINGS. A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING INITIAL INSTALLATION TO PROVIDE ONSITE TRAINING OF INSTALLERS.

3. WHERE INSTALLATION OF ADHESIVE ANCHORS IS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS, THE INSTALLING PERSONNEL SHALL BE CERTIFIED IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.

4. AT CORED HOLES, WET HOLES, OR HOLES DEEPER THAN 18 INCHES, SUBSTITUTE A SLOW CURE EPOXY ADHESIVE OR OTHER APPROPRIATE PRODUCT RECOMMENDED BY THE MANUFACTURER FOR THE SPECIAL APPLICATION.

5. ALL POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH THE BUILDING CODE. INSTALLATION OF GROUTED DOWELS AND RODS SHALL BE CONTINUOUSLY INSPECTED BY THE TESTING LABORATORY, TO ENSURE THAT HOLES ARE OF PROPER DIAMETER AND LENGTH, ARE PROPERLY CLEANED, AND THAT DOWELS AND RODS ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

6. ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF THE CONCRETE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

7. THE CONTRACTOR SHALL CREATE A TEMPLATE FOR EACH ANCHOR ROD GROUP PRIOR TO FABRICATING HOLES IN CONNECTION PLATES. TEMPLATES SHALL BE MADE AFTER LOCATING EXISTING REINFORCING STEEL WITH FERROSCAN OR SIMILAR NON-DESTRUCTIVE REINFORCING IMAGING DEVICE. POSITION ANCHOR HOLES SO AS NOT TO CONFLICT WITH THE EXISTING REINFORCING. ANCHOR POSITIONS MAY BE ADJUSTED IN THE FIELD A MAXIMUM OF 1 1/2" FROM THE DIMENSIONS SHOWN ON THE DETAILS, TO AVOID CONFLICT WITH THE EXISTING REINFORCING STEEL.

8. SUBMIT DRAWINGS OF TEMPLATES FOR ANCHOR ROD GROUPS SHOWING HOLE LOCATIONS PRIOR TO FABRICATION OF CONNECTION PLATES.

9. HOLES SHALL BE DRILLED WITH A HAMMER DRILL. CORED HOLES ARE NOT PERMITTED. DIAMETER OF HOLES DRILLED IN THE CONCRETE SHALL BE THE SIZE RECOMMENDED BY THE MANUFACTURER FOR THE RESPECTIVE ANCHOR SIZE.

10. IMPORTANT: AFTER DRILLING, ALL DUST AND OTHER FOREIGN MATTER SHALL BE BLOWN OUT OF THE HOLE WITH COMPRESSED AIR. DO NOT FLUSH WITH WATER. CLEAN SIDES OF HOLE AS RECOMMENDED BY MANUFACTURER. HOLES MUST BE DRY.

11. ALL ABANDONED HOLES DRILLED IN THE CONCRETE SHALL BE COMPLETELY FILLED WITH NONSHRINK GROUT.

12. HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 1/16" LARGER THAN THE ANCHOR DIAMETER. IF LARGER DIAMETER HOLES ARE NECESSARY FOR ERECTION PURPOSES, THE CONTRACTOR SHALL PROVIDE PLATE WASHERS SUFFICIENTLY WELDED TO THE CONNECTION PLATE TO TRANSFER THE SPECIFIED LOAD.

STRUCTURAL STEEL

1. **TOLERANCE REQUIREMENTS** - STRUCTURAL DRAWINGS INDICATE MISCELLANEOUS STEEL ELEMENTS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALLS OR MASONRY, AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS WHICH ARE INTENDED TO SUPPORT OR BE COORDINATED WITH MATERIALS FURNISHED BY OTHER TRADES. IT IS THE INTENT OF THESE DRAWINGS THAT THESE ELEMENTS BE FIELD ATTACHED BY FIELD WELDING OR BOLTING TO MEET THE TOLERANCES REQUIRED BY OTHER TRADES, WHICH MAY BE MORE STRINGENT THAN A.I.S.C. TOLERANCES FOR STRUCTURAL STEEL. CONTRACTOR SHALL COORDINATE TRADES AND FIELD INSTALL MISCELLANEOUS STEEL ELEMENTS AND THE STRUCTURAL STEEL FRAME TO COMPLY WITH THE TOLERANCE CRITERIA FOR PROPER INSTALLATION OF MATERIALS BY OTHER TRADES.

2. STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:

WIDE FLANGE (W) SHAPES AND TEES	A 992 (50 KSI YIELD)
OTHER ROLLED SHAPES, PLATES AND RODS	A 36 (36 KSI YIELD)
HOLLOW STRUCTURAL SHAPES (HSS OR TS)	A 500, GRADE C (42 KSI YIELD ROUND/46 KSI YIELD SQUARE)
PIPE	A 53, GRADE B (35 KSI YIELD)
BOLTS FOR CONNECTIONS	A 325N
ANCHOR BOLTS (ANCHOR RODS)	F 1554 (36 KSI YIELD)

1. PREDESIGNED BEAM CONNECTION DETAILS ARE SHOWN ON SHEET S400. OTHER TYPICAL CONNECTIONS ARE SHOWN IN TYPICAL DETAILS. CONNECTIONS WHICH ARE NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THE CONNECTION NOTES AND SPECIFICATIONS.

2. ALL MOMENT CONNECTIONS SHALL BE FULL WELDED CONNECTIONS DESIGNED TO DEVELOP THE FULL CROSS-SECTION OF THE MEMBER. STIFFENER PLATES, WHERE SHOWN, ARE MANDATORY AND MAY NOT BE OMITTED. MOMENT CONNECTIONS ARE INDICATED ON THE PLANS BY A TRIANGULAR BULB ON THE END OF THE BEAM, OR BY THE LETTERS "MC".

3. CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.

4. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION.

5. BACK TO BACK CHANNELS OR DOUBLE ANGLES ACTING AS COMPRESSION MEMBERS SHALL BE CONNECTED TO EACH OTHER AT THIRD POINTS ALONG THE LENGTH BY WELDING IN SPACER PLATES OF EQUAL THICKNESS TO THE GUSSET PLATES. UNEQUAL LEG ANGLES SHALL BE ORIENTED LONG LEG DOWN UNLESS NOTED OTHERWISE.

6. TEMPORARY CONSTRUCTION BRACING OF STRUCTURAL STEEL FRAME SHALL REMAIN IN PLACE UNTIL AFTER ALL PERMANENT BRACING COMPONENTS HAVE BEEN COMPLETED. THE LATERAL-LOAD-RESISTING SYSTEM OF THE BUILDING INCLUDES REINFORCED MASONRY SHEAR WALLS, DESIGNATED WIND BRACES, AND CONNECTING DIAPHRAGM ELEMENTS. THE METAL ROOF DECK AND COMPLETED CONCRETE FILL ON METAL FLOOR DECK ARE ESSENTIAL DIAPHRAGM COMPONENTS OF THE PERMANENT BRACING SYSTEM.

7. WIND BRACES IN THE VERTICAL PLANE ARE DENOTED BY "WB" ON THE PLAN. SEE WIND BRACE DETAILS FOR CONFIGURATIONS.

8. SHELF ANGLES SHOWN AS CONTINUOUS IN THE SECTIONS SHALL BE INSTALLED IN 20'-0" MAXIMUM LENGTHS, LEAVING A 1/4" GAP BETWEEN ENDS AND AT CORNERS. LOCATE GAPS TO MATCH MASONRY CONTROL JOINTS.

9. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.

10. ALL STEEL SHALL BE FURNISHED WITH SHOP COAT OF RUST INHIBITIVE PRIMER AT INTERIOR EXPOSURE.

11. ALL STEEL SHALL BE FURNISHED AS HOT-DIPPED GALVANIZED WHERE PERMANENTLY EXPOSED TO THE WEATHER

12. WHERE ANGLES ARE NOTED TO BE CONTINUOUS, PROVIDE FULL BUTT WELD AT SPLICES.

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#	DATE	CHANGE DESCRIPTION
1	DATE	REVISION

DALLAS INDEPENDENT SCHOOL DISTRICT
HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:

GENERAL NOTES

12.02.2025
DRAWN BY: **AG** CHECKED BY: **SS**
R22301.01

S002

100% CONSTRUCTION DOCUMENTATION

STATE OF TEXAS
LEE CHRISTIAN
101027
LICENSED
PROFESSIONAL ENGINEER
09/19/2025

REVIT VERSION: 2023
PRINT DATE: 9/19/2025 1:25:06 PM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/DISD Harry Stone Montessori Acad Reno_STRUCT_R23.rvt

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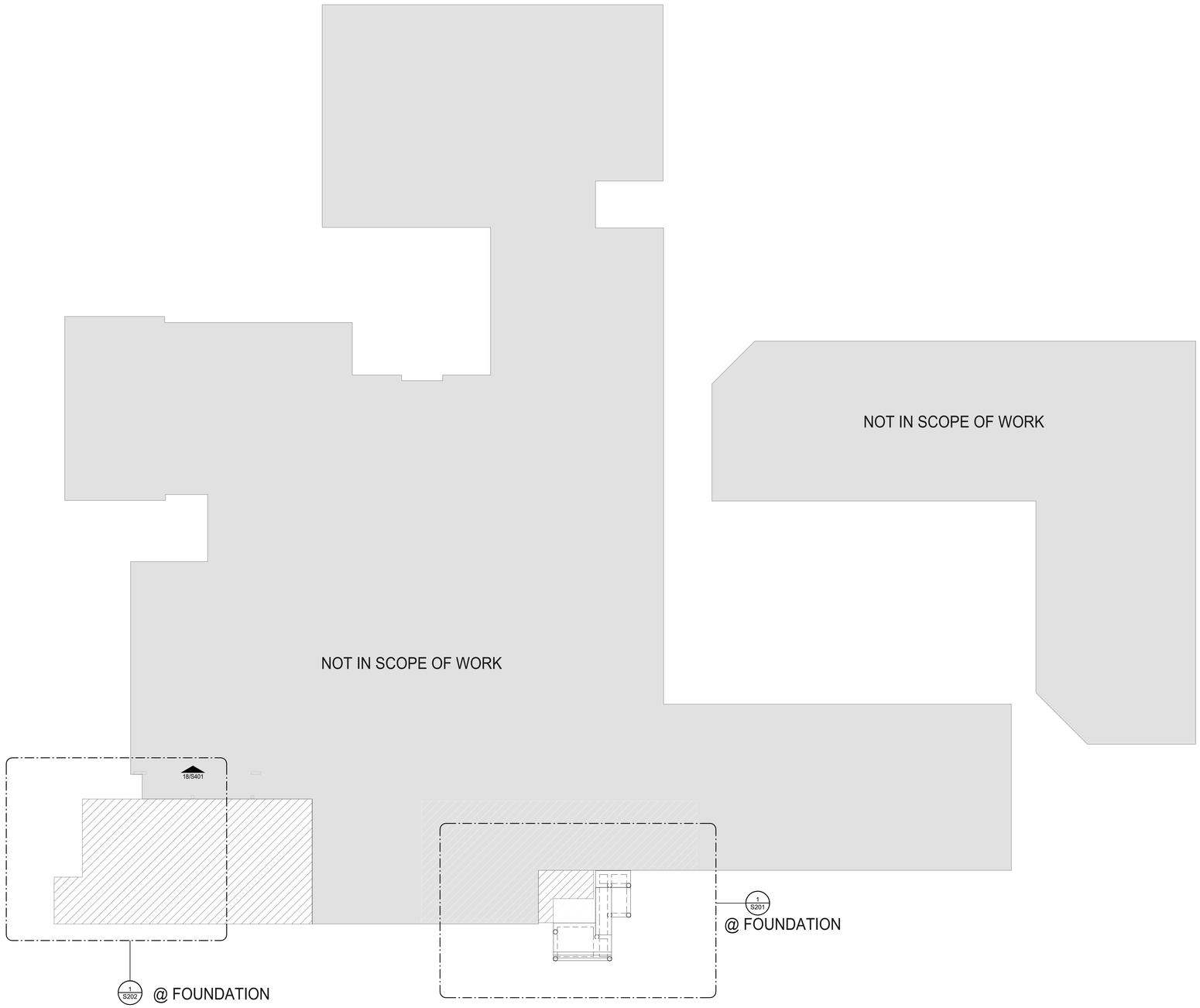

1 PLAN OVERALL EXISTING FRAMING PLAN

1/16" = 1'-0"

NOTE:
GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE ORIGINAL DESIGN VALUES PROVIDED IN SOIL REPORT DATED JULY 5, 2023 ARE STILL VALID.

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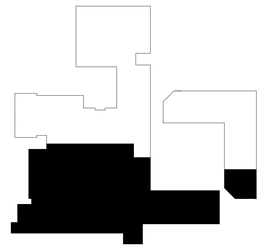

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DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

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FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:

OVERALL FOUNDATION PLAN

STATE OF TEXAS — LEE CHRISTIAN — 101027 — REGISTERED PROFESSIONAL ENGINEER
09/19/2025

12.02.2025

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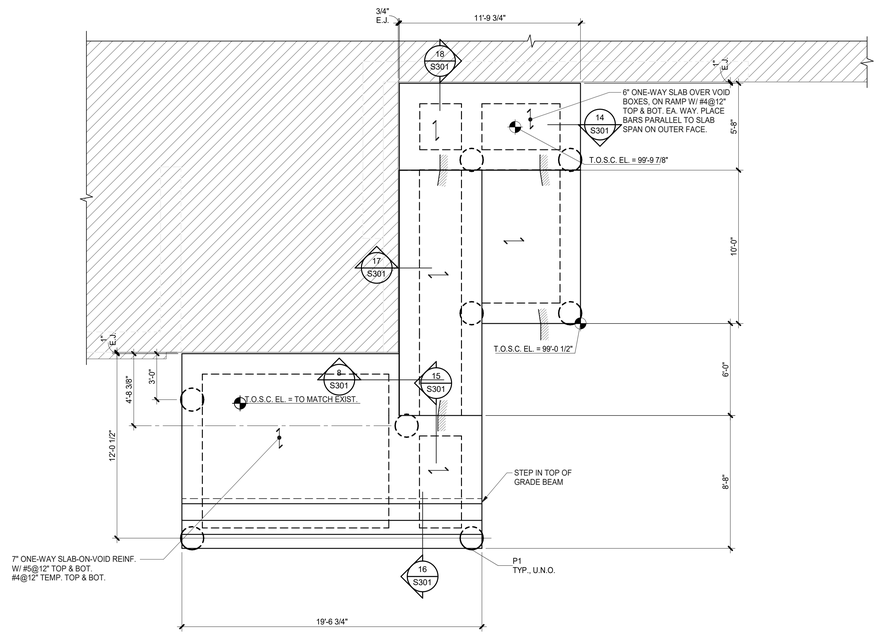

1 ENLARGED PLAN ENTRY FOUNDATION PLAN

1/4" = 1'-0" REF: 1 / S200

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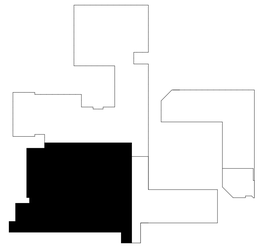

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FOR
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5001 SPRING VALLEY RD.
SUITE 225E
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DRAWING TITLE:

PARTIAL FRAMING PLANS

09/19/2025

12.02.2025

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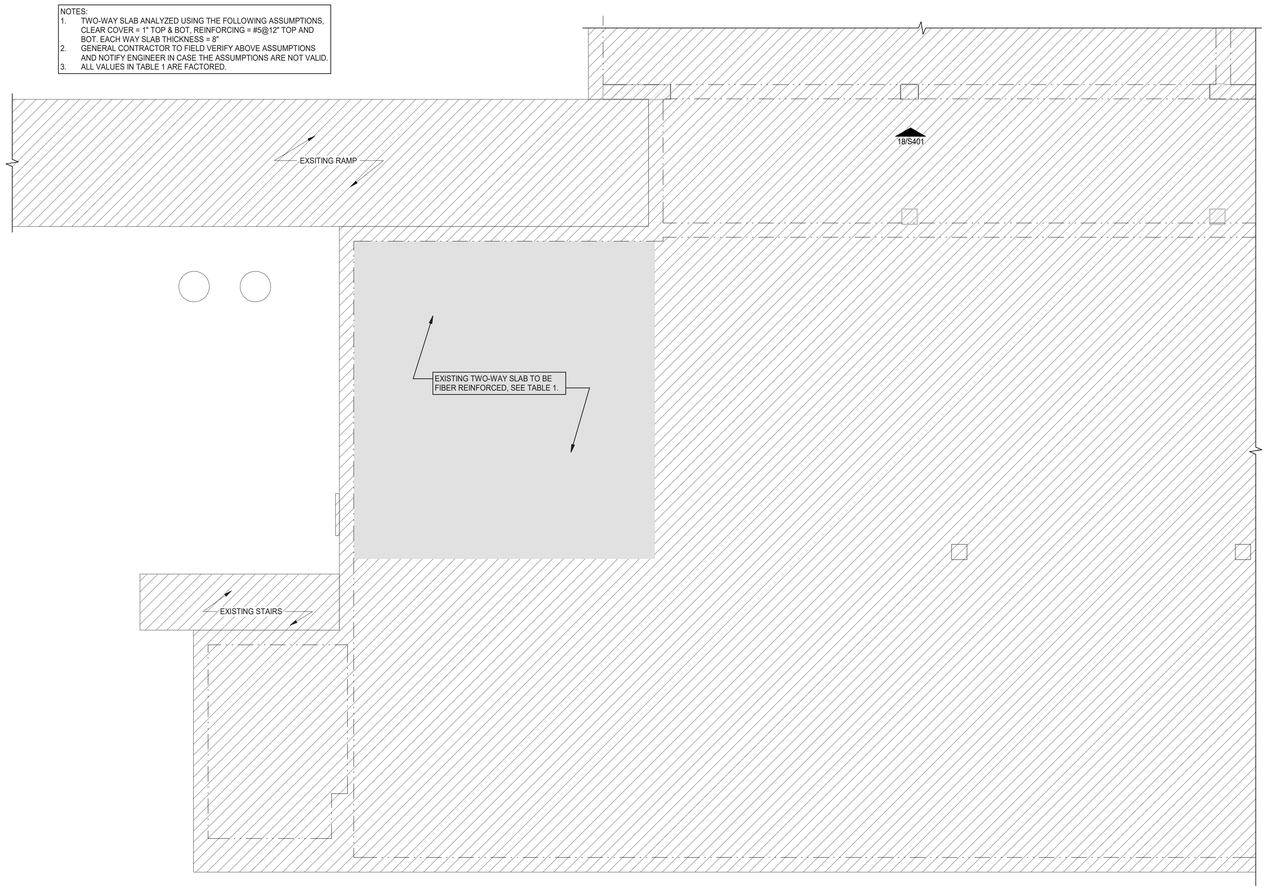
TABLE 1:			
	REQUIRED TOTAL	AVAILABLE FROM SLAB	REQUIRED FROM FIBER REINFORCING
POSITIVE MOMENT STRENGTH (K-FT/FT)	13.5	9.0	4.5
NEGATIVE MOMENT STRENGTH (K-FT/FT)	-20.0	-13.5	-6.5
SHEAR (K/FT)	6.5	4.1	2.4

NOTES:
1. TWO-WAY SLAB ANALYZED USING THE FOLLOWING ASSUMPTIONS, CLEAR COVER = 1" TOP & BOT, REINFORCING = #5@12" TOP AND BOT. EACH WAY SLAB THICKNESS = 8"
2. GENERAL CONTRACTOR TO FIELD VERIFY ABOVE ASSUMPTIONS AND NOTIFY ENGINEER IN CASE THE ASSUMPTIONS ARE NOT VALID.
3. ALL VALUES IN TABLE 1 ARE FACTORED.



1 **ENLARGED PLAN** KITCHEN EXPANSION FOUNDATION PLAN
1/4" = 1'-0" REF: 1 / S200

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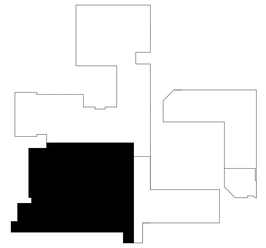

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PARTIAL FRAMING PLANS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED — REGISTERED ENGINEER
09/19/2025

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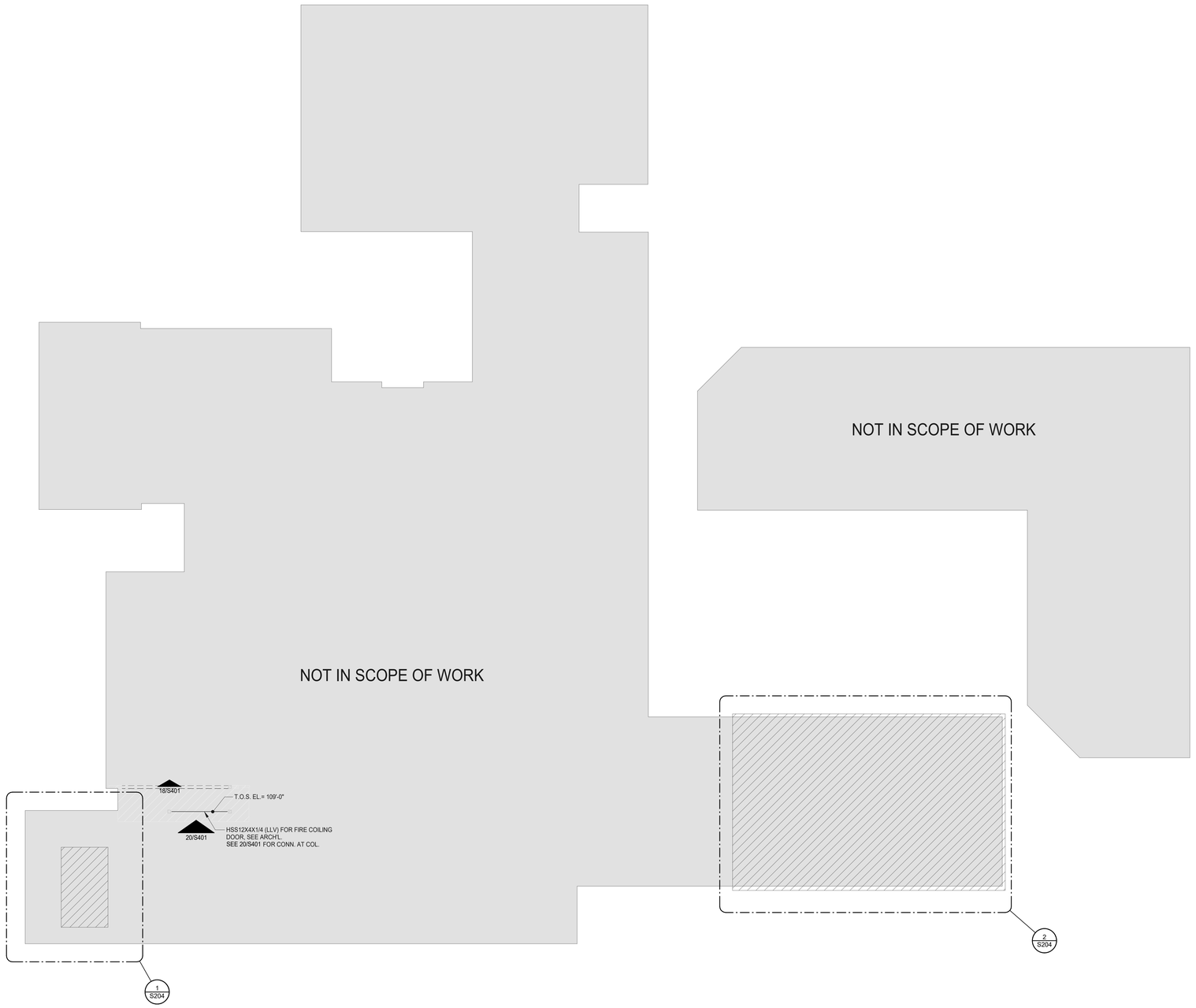

1 PLAN OVERALL EXISTING ROOF FRAMING PLAN
1/16" = 1'-0"

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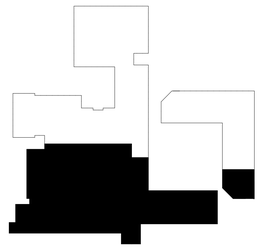

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OVERALL ROOF PLAN

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED PROFESSIONAL ENGINEER
09/19/2025

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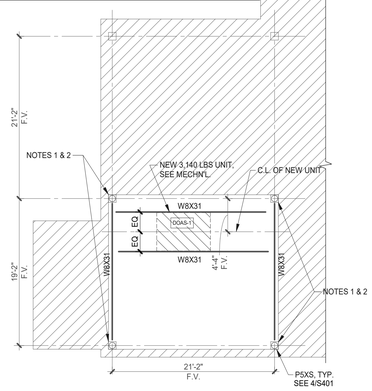
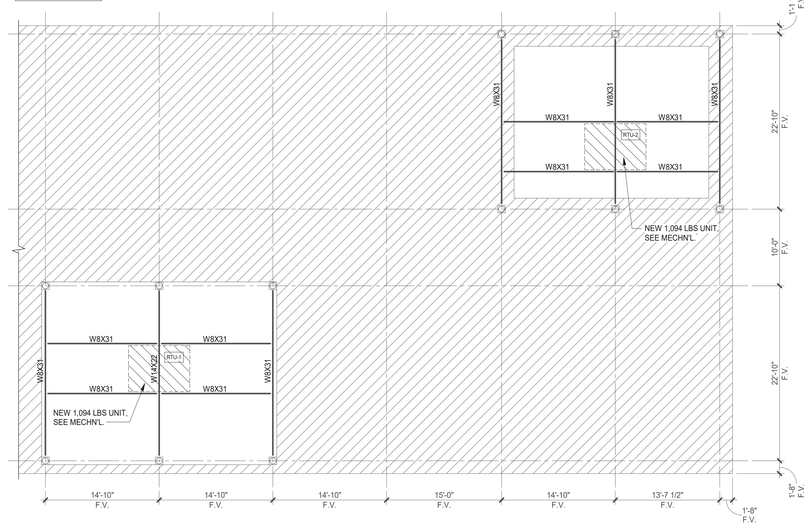
NOTES:
1. CONCRETE COLUMN AT ROOF WAS ANALYZED USING FOLLOWING ASSUMPTIONS, SIZE = 12"X12", CLEAR COVER = 1 1/2", REINFORCING = 4#6 VERTICAL W/ #3 TIES @ 12" O.C.
2. GENERAL CONTRACTOR TO FIELD VERIFY ABOVE ASSUMPTIONS AND NOTIFY ENGINEER IN CASE THE ASSUMPTIONS ARE NOT VALID.
3. ALL STRUCTURAL STEEL TO BE GALVANIZED.
4. ROOF OPENING DIMENSIONS ARE ASSUMED TO MATCH WITH THE EXISTING. NOTIFY ENGINEER IF ROOF OPENING NEEDS TO BE WIDENED OR INFILLED.



1 PLAN WEST SIDE RTU
1/8" = 1'-0"

NOTE:
SEE 1/S204 FOR INFO. NOT SHOWN.



2 PLAN EAST SIDE RTU
1/8" = 1'-0"

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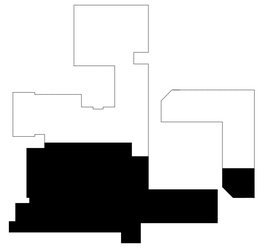

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
PARTIAL ROOF FRAMING PLANS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED PROFESSIONAL ENGINEER
09/19/2025

12.02.2025

DRAWN BY: **AG**	CHECKED BY: **SS**

R22301.01

S204

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FILE INFO: Autodesk Docs://22301.10_DISD Harry Stone Montessori Academy Reno - R23/DISD Harry Stone Montessori Acad Reno_STRUCT_R23.rvt

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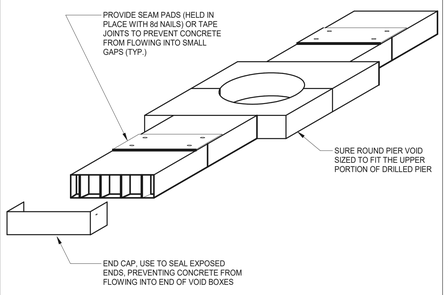
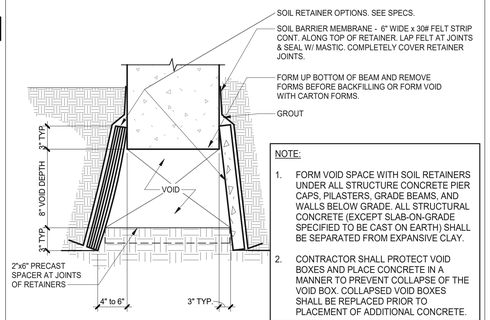
NOTE:
GRADE SHALL BE SMOOTH, EVEN, LEVEL & DRY BEFORE INSTALLING VOID BOXES. REFER TO VOID DETAILS FOR APPLICATION.

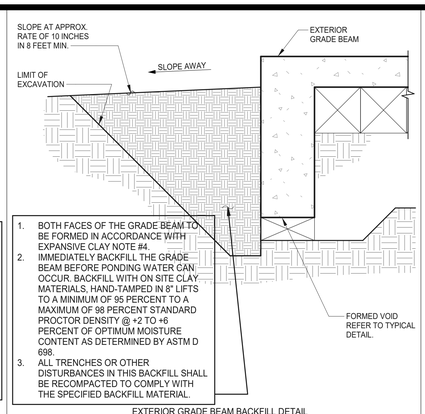


WALL AND BEAM VOID
TYPICAL DETAIL
NO SCALE
A



NOTE:
1. FORM VOID SPACE WITH SOIL RETAINERS UNDER ALL STRUCTURE CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE. ALL STRUCTURAL CONCRETE (EXCEPT SLAB-ON-GRADE SPECIFIED TO BE CAST ON EARTH) SHALL BE SEPARATED FROM EXPANSIVE CLAY.
2. CONTRACTOR SHALL PROTECT VOID BOXES AND PLACE CONCRETE IN A MANNER TO PREVENT COLLAPSE OF THE VOID BOX. COLLAPSED VOID BOXES SHALL BE REPLACED PRIOR TO PLACEMENT OF ADDITIONAL CONCRETE.

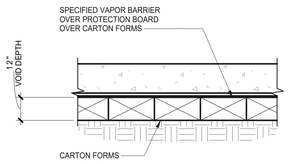
RECTANGULAR VOID | STRUCTURE OVER VOID
TYPICAL DETAIL
NO SCALE
B



1. BOTH FACES OF THE GRADE BEAM TO BE FORMED IN ACCORDANCE WITH EXPANSIVE CLAY NOTE #4.
2. IMMEDIATELY BACKFILL THE GRADE BEAM BEFORE PONDING WATER CAN OCCUR. BACKFILL WITH ON SITE CLAY MATERIALS, HAND-TAMPED IN 8" LIFTS TO A MINIMUM OF 95 PERCENT TO A MAXIMUM OF 98 PERCENT STANDARD PROCTOR DENSITY @ +2 TO +6 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698.
3. ALL TRENCHES OR OTHER DISTURBANCES IN THIS BACKFILL SHALL BE RECOMPACTED TO COMPLY WITH THE SPECIFIED BACKFILL MATERIAL.

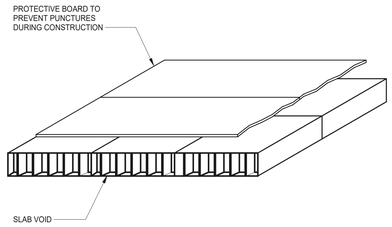
EXTERIOR GRADE BEAM BACKFILL DETAIL
TYPICAL DETAIL
NO SCALE
C

NOTE:
REPLACE CARTON FORMS THAT HAVE BEEN DAMAGED OR IF THEY BECOME SATURATED AND WEAK. TAKE SPECIAL CARE TO PREVENT CRUSHING OF CARTON FORMS DURING PLACEMENT OF REINFORCING AND CONCRETE.



SLAB ON VOID
TYPICAL DETAIL
NO SCALE
D

NOTE:
GRADE SHALL BE SMOOTH, EVEN LEVEL & DRY BEFORE INSTALLING VOID BOXES. REFER TO VOID DETAILS FOR APPLICATION.



STRUCTURAL SLAB VOID
TYPICAL DETAIL
NO SCALE
F

FOUNDATION PROTECTION IN EXPANSIVE CLAY NOTES

DUE TO THE EXPANSIVE CLAY SOILS THAT EXIST ON THIS SITE, CERTAIN CONSTRUCTION PRACTICES MUST BE FOLLOWED TO PREVENT DAMAGE TO THE FOUNDATIONS. THESE PROCEDURES ARE AS FOLLOWS:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE DEPTH OF VOID SPACE SHOWN SEPARATING THE CONCRETE FROM UNDERLYING EXPANSIVE CLAY. USE OF CARDBOARD CARTON FORMS (VOID BOXES) IS THE INDUSTRY STANDARD PROCEDURE, BUT THE USE OF CARTON FORMS AS A FORM MATERIAL IS THE CONTRACTOR'S OPTION. IF CARTON FORMS ARE USED INSTEAD OF STANDARD WOOD OR METAL FORMS, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY CRUSHING OR COLLAPSE OF CARTON FORMS WHICH WOULD RESULT IN A VOID SPACE DEPTH LESS THAN THE DIMENSIONED DEPTH.
2. THE BUILDING SITE MUST BE GRADED AWAY FROM THE BUILDING FOUNDATIONS IN THE INITIAL STAGE OF CONSTRUCTION. THE BUILDING PAD MUST BE MAINTAINED AT THE SPECIFIED MOISTURE CONTENT DURING CONSTRUCTION. STANDING PONDS OF WATER IN THE BUILDING FOUNDATION AREA WILL NOT BE ACCEPTABLE.
3. IT IS ESSENTIAL THAT BACKFILL AROUND ALL GRADE BEAMS BE PLACED IMMEDIATELY AFTER THE GRADE BEAMS ARE CAST. IF RAIN OCCURS BEFORE THE BACKFILL IS PLACED, ALL OPEN EXCAVATIONS AROUND GRADE BEAMS MUST BE PUMPED DRY IMMEDIATELY AND KEPT DRY AT ALL TIMES. **USE SPECIFIED BACKFILL MATERIAL AGAINST ALL GRADE BEAMS ((OR)) BACKFILL AGAINST OUTSIDE FACE OF PERIMETER GRADE BEAMS WITH ON-SITE CLAY MATERIALS.** SEE B & C/S300.
4. ALL GRADE BEAMS AND OTHER ELEMENTS BELOW GRADE SHALL BE FORMED STRAIGHT AND TO THE LINES AND GRADES DETAILED. BACKFILL AS REQUIRED. DO NOT CAST SIDES AGAINST THE EARTH EXCAVATION. SEE B & C/S300.
5. PROVIDE A VOID BETWEEN THE CLAY SOIL AND ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, WALLS AND SLABS (AT OR BELOW GRADE) WHICH ARE SUPPORTED ON PIERS. ALL STRUCTURAL CONCRETE, EXCEPT SLAB- ON-GRADE, SHALL BE SEPARATED FROM EXPANSIVE CLAY. SEE A, B, D & F/S300.
6. IF CARTON FORMS ARE USED TO CONSTRUCT VOIDS, THEY MUST COMPLY WITH THE SPECIFICATIONS AND THE FOLLOWING INSTALLATION PROCEDURES:
   - A. PAY SPECIAL ATTENTION TO THE PLACING OF CONCRETE, TO PREVENT CRUSHING THE CARTON FORMS UNDER THE DEAD WEIGHT OF THE CONCRETE.
   - B. PROTECT THE CARTON FORMS FROM DESTRUCTION DUE TO RAIN WATER AND REPLACE THE CARTON FORMS IF THEY BECOME SATURATED AND WEAK.
   - C. USE END CAPS TO CAP OFF THE DISCONTINUOUS ENDS OF CARTON FORMS AT CORNERS AND PIERS TO PREVENT SOIL OR CONCRETE FROM ENTERING VOID. SEE A/S300.
   - D. BUTT CARTON FORMS INTO SIDES OF PIER, DO NOT LEAVE GAP BETWEEN FACE OF PIER AND CARTON FORM, BUT DO NOT ALLOW ANY PART OF CARTON FORM TO FALL WITHIN PIER CIRCUMFERENCE. END CAPS AT PIERS SHALL BE CIRCULAR. SEE A/S300.
   - E. JOIN CARTON FORMS TOGETHER TIGHTLY AT JOINTS AND COVER WITH SEAM PADS HELD IN PLACE WITH NAILS. DO NOT LEAVE GAPS BETWEEN UNITS. SEE A/S300.
   - F. PLACE CARTON FORMS ON SMOOTH, LEVEL SURFACE.
   - G. DO NOT PUNCTURE CARTONS WITH BAR CHAIRS. USE SAND PLATES OR SUSPEND REINFORCING CAGES FROM THE TOP.

T

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www.datumrios.com | Co. Reg. No. F-16874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
EXPANSIVE CLAY SOIL DETAILS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED — PROFESSIONAL ENGINEER
Lee Christian
09/19/2025

12.02.2025
DRAWN BY: **AG** | CHECKED BY: **SS**
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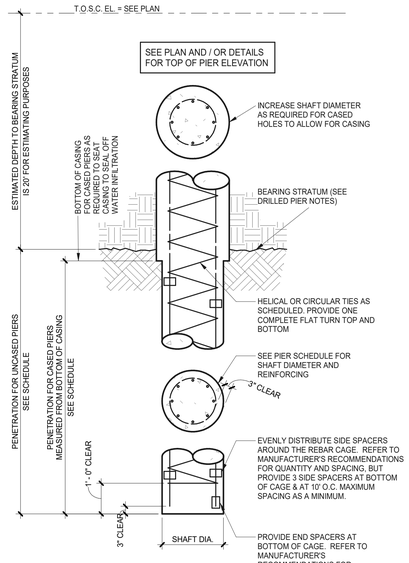


CASED STRAIGHT SHAFT PIER

TYPICAL DETAIL

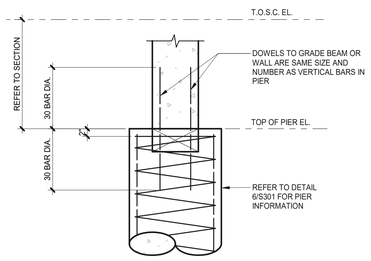
NO SCALE

6

PIER SCHEDULE

TYPE	SHAFT DIAMETER	VERTICAL BARS	SPIRALS	PENETRATION
P1	18"	SEE SCHEDULE	SEE SCHEDULE	9'-0"

3

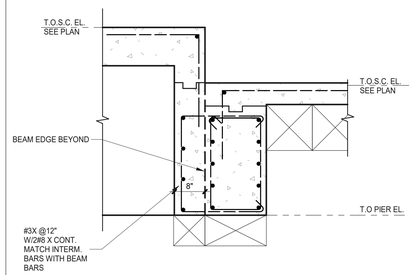


GRADE BEAM OR WALL TO PIER

TYPICAL DETAIL

NO SCALE

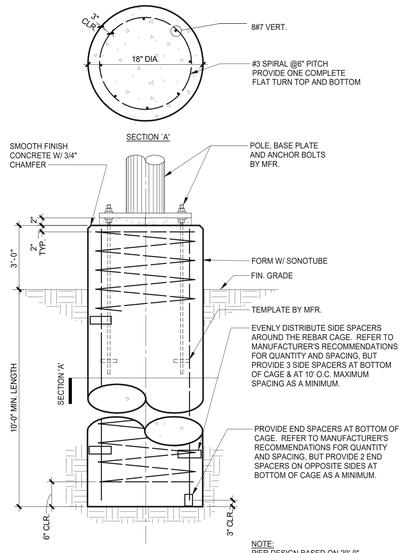
7



NOTE:
SEE 14/S301 FOR INFO. NOT SHOWN.

3/4" = 1'-0"

8



NOTE:
PIER DESIGN BASED ON 20'-0" AMERICAN LITE POLE SNS-20-40-11-AB. IF A DIFFERENT POLE IS USED, NOTIFY ENGINEER PRIOR TO DRILLING PIERS. SEE ELECTRICAL SITE PLAN FOR LOCATIONS.

LIGHT POLE PIER DETAIL

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0"

9

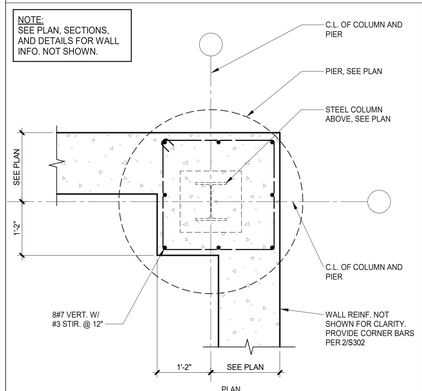
NOTE: CIRCULAR TIES THUS: BAR LAP MAY BE USED IN LIEU OF HELICAL TIES. BAR SIZE WILL REMAIN THE SAME. SPACING OF THE TIES SHALL BE 12" O.C. BAR LAP SHALL BE 48 BAR DIAMETERS. (PROVIDE 48 BAR DIA. LAP SPLICE)

STANDARD PIER REINFORCING SCHEDULE

SHAFT DIAMETER	VERTICAL BARS	HELICAL TIES
18"	6#6	#3@6

NOTE:
SEE PIER SCHEDULE FOR SIZE OF PIERS USED ON THIS PROJECT.

NOTE:
SEE PLAN, SECTIONS, AND DETAILS FOR WALL INFO. NOT SHOWN.



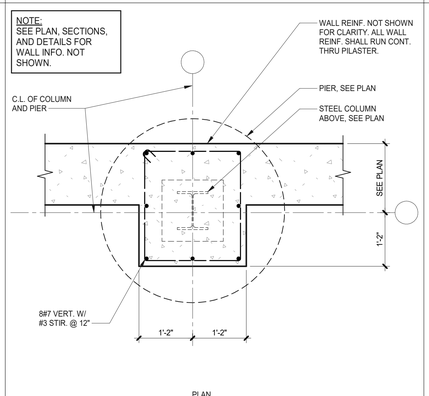
CORNER PILASTER @ STEEL COLUMN

TYPICAL DETAIL

NO SCALE

11

NOTE:
SEE PLAN, SECTIONS, AND DETAILS FOR WALL INFO. NOT SHOWN.



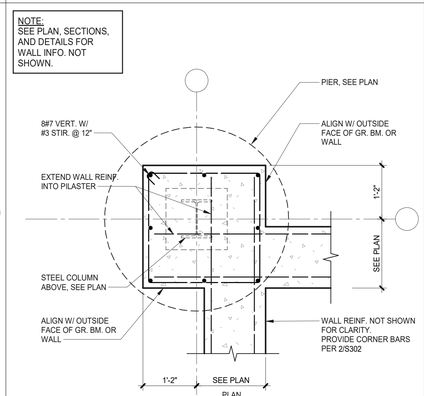
WALL PILASTER @ STEEL COLUMN

TYPICAL DETAIL

NO SCALE

12

NOTE:
SEE PLAN, SECTIONS, AND DETAILS FOR WALL INFO. NOT SHOWN.

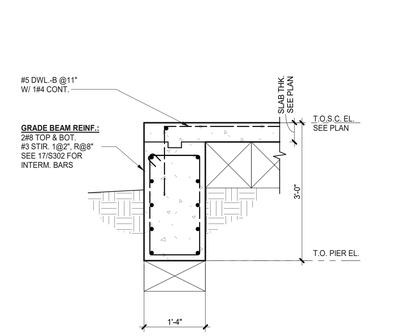


RE-ENTRANT CORNER PILASTER @ STEEL COLUMN

TYPICAL DETAIL

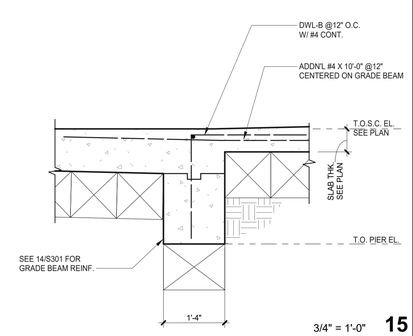
NO SCALE

13



3/4" = 1'-0"

14



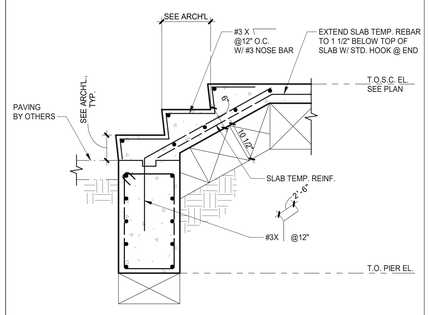
3/4" = 1'-0"

15

CASED STRAIGHT SHAFT PIERS NOTES:

1. PIER DRILLING MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL ENGINEER. CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER AT LEAST 2 DAYS IN ADVANCE OF DRILLING TO COORDINATE INSPECTION.
2. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE VALUE OF 25,000 POUNDS PER SQUARE FOOT IN END BEARING AND 3,800 POUNDS PER SQUARE FOOT IN SKIN FRICTION, AS RECOMMENDED IN THE SOIL REPORT, PREPARED BY ALPHA TESTING , DATED JULY 5, 2023.
3. BEARING STRATUM SHOWN ON THE PIER DETAILS IS TAN SHALY LIMESTONE.
4. DISTRIBUTION OF THE VARIOUS PIER TYPES IS INDICATED ON THE PIER PLAN.
5. PIER SIZES, REINFORCING, AND DEPTHS ARE SHOWN IN THE PIER SCHEDULE ON SHEET S301.
6. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD STOCK LENGTHS AND CUT AS REQUIRED BY THE ACTUAL FIELD MEASURED DEPTH OF THE PIER. SPLICES IN VERTICAL REINFORCING SHALL BE #4 BAR DIAMETERS, AND REINFORCING SHALL EXTEND TO 3 INCHES FROM BOTTOM OF HOLE, UNLESS SHOWN OTHERWISE.
7. THE CONTRACTOR SHALL TAKE ACCURATE MEASUREMENTS OF THE DEPTH OF PENETRATION INTO THE BEARING STRATUM, TO BE ASSURED OF CONFORMANCE WITH THE DEPTH OF PENETRATION REQUIRED BY THE PIER SCHEDULE, AND SUBMIT A REPORT OF DEPTHS OF PENETRATION DRILLED TO THE ENGINEER.
8. REINFORCING STEEL SHOP DRAWINGS SHALL INCLUDE DRAWINGS FOR PLACING OF TEMPLATES TO SET DOWELS IN PIERS.
9. PIER HOLES SHALL BE COMPLETED AND FILLED WITH CONCRETE WITHIN 8 HOURS AFTER THE START OF ANY DRILLING IN THE PENETRATION ZONE.
10. ELEVATION OF TOP OF PIERS, WHERE NOT GIVEN, IS AT THE BOTTOM OF THE DEEPEST INTERSECTING BEAM OR WALL SUPPORTED BY THE PIER. CONTRACTOR SHALL CALCULATE ALL TOP OF PIER ELEVATIONS BEFORE PROCEEDING WITH THE PIER DRILLING OPERATION.
11. REMOVE EXCESS CONCRETE AT THE TOP OF THE PIER BEYOND THE LIMITS OF THE PIER DIAMETER. FORM SIDES OF PIER EXTENSIONS TO THE SAME DIAMETER AS SHAFT BELOW, AVOIDING OVERHANGS IN EXPANSIVE CLAY. USE SUREVOID COMMERCIAL SURETOP OR SONOTUBE COLLAR FORMS AT TOP OF EACH HOLE TO MAINTAIN SHAPE.
12. DRILL PIERS AFTER ALL SOIL TREATMENT, FILLING, AND COMPACTION HAVE BEEN COMPLETED IN THE AREA TO BE DRILLED. DISTURBED AREAS SHALL BE RECOMPACTED.
13. CONTRACTOR SHALL PROVIDE ADDITIONAL PIER REINFORCING STEEL (CIRCULAR TIES, HELICAL TIES, DIAGONAL STRUTS, AND/OR VERTICAL REINFORCING), AS REQUIRED TO FACILITATE PLACEMENT OF THE REINFORCING CAGE WITHOUT BUCKLING, COLLAPSING OR EXCESSIVE DEFLECTION.
14. PIERS SHALL NOT BE LARGER THAN THE DIAMETER SHOWN (PLUS 2-INCH TOLERANCE) IN ORDER TO LIMIT SURFACE AREA IN CONTACT WITH EXPANSIVE CLAY.
15. WHERE TWO PIERS ARE CLOSER TOGETHER THAN TWO TIMES THE DIAMETER OF THE LARGER PIER (CLEAR DISTANCE), WAIT AT LEAST 24 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND.

NOTE:
SEE 14/S301 FOR INFO. NOT SHOWN.

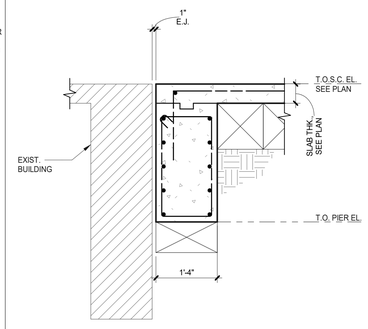


3/4" = 1'-0"

16

NOTE:
DO NOT UNDERMINE EXISTING FOUNDATION IN THIS AREA.

NOTE:
SEE 14/S301 FOR INFO. NOT SHOWN.

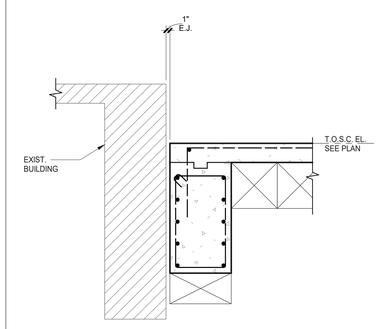


3/4" = 1'-0"

17

NOTE:
DO NOT UNDERMINE EXISTING FOUNDATION IN THIS AREA.

NOTE:
SEE 14/S301 FOR INFO. NOT SHOWN.



3/4" = 1'-0"

18

2023

Datum Rios
www.datumrios.com | Co. Reg. No. F-16874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
CASED STRAIGHT SHAFT PIERS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — REGISTERED PROFESSIONAL ENGINEER
09/19/2025

12.02.2025

DRAWN BY: AG | CHECKED BY: SS

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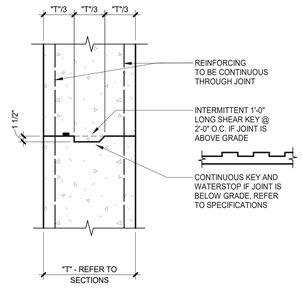
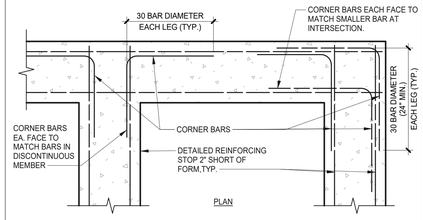


HORIZONTAL CONSTRUCTION JOINT IN BEAMS AND
TYPICAL DETAIL
NO SCALE

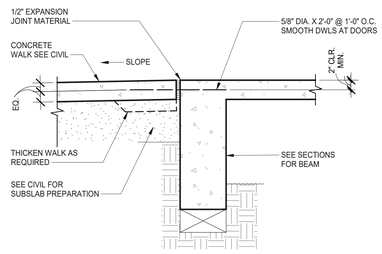
1

NOTES:
1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND WALL BARS EXCEPT HOOKED TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED WHEN BEAM OR WALL BARS HAVE HOOKED ENDS. TURN HOOKS SIDEWAYS.



CORNER BARS AT WALL OR GRADE BEAM INTERSECTION
TYPICAL DETAIL
NO SCALE

2



EXTERIOR WALK TO GRADE BEAM
TYPICAL DETAIL
NO SCALE

3

DOWEL SCHEDULE

MARK	SIZE	A	B	C
DWL. A	#4	8"	3'-0"	---
DWL. B	#4	3'-0"	3'-0"	---
DWL. C	#4	---	4'-0"	---
DWL. D	#6 THD.	---	4'-0"	---
DWL. E	#4 THD.	---	3'-0"	---
DWL. F	#4 THD.	---	6'-0"	---

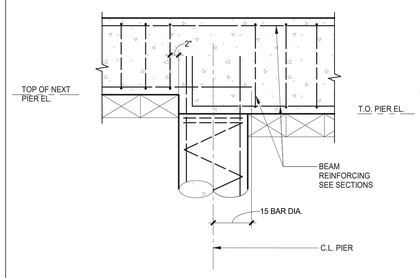
NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.

2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS OTHERWISE NOTED ON DETAILS.

3. DOWELS WITH "THD" IN "SIZE" COLUMN SHALL BE THREADED DOWELS WITH APPROVED DOWEL BAR ANCHORS PER SPECIFICATIONS

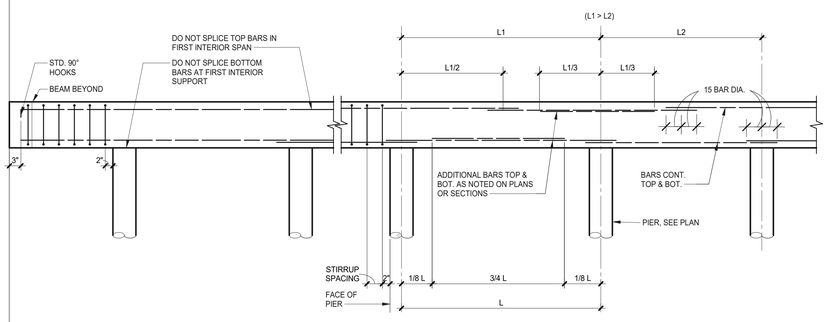
NOTE:
CORNER CONDITION SIMILAR. STOP BARS 3" FROM CORNER AND PROVIDE CORNER BARS.



ELEVATION

CHANGE IN DEPTH OF GRADE BEAM OR WALL
TYPICAL DETAIL
NO SCALE

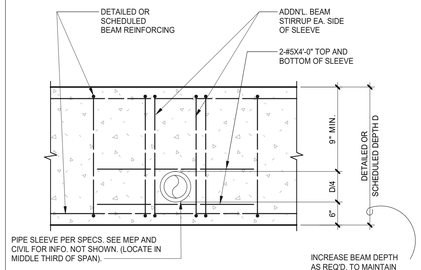
7



GRADE BEAM ELEVATION
TYPICAL DETAIL
NO SCALE

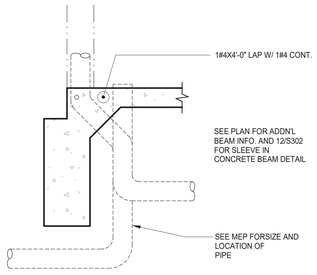
8

NOTES:
1. CONDUIT AND PIPING MAY NOT BE PLACED PARALLEL TO AND INSIDE OF BEAM FORMS OR TRENCHES.
2. IF PIPE IS BEING CAST INTO A GRADE BEAM, SLEEVE MAY BE OMITTED IF PIPE IS WRAPPED WITH 1/2" THICK COMPRESSABLE MATERIAL.
3. NOTIFY ENGINEER IF DIMENSIONED CONDITIONS CANNOT BE MET.



SLEEVE THROUGH GRADE BEAM
TYPICAL DETAIL
NO SCALE

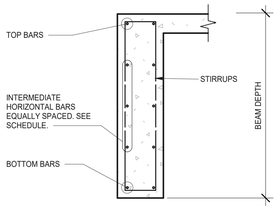
9



PIPE PENETRATION THROUGH SLAB
TYPICAL DETAIL
NO SCALE

11

NOTES:
1. TOTAL AREA OF INTERMEDIATE REINFORCING NEED NOT EXCEED THE AREA OF TOP OR BOTTOM REINFORCING (WHICHEVER IS LARGER).
2. BEAMS LESS THAN 36" DEEP DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED FOR TORSION. SEE BEAM SCHEDULE.

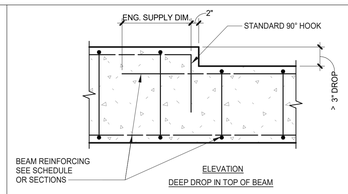


INTERMEDIATE BAR SCHEDULE

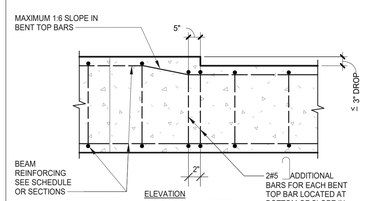
BEAM DEPTH	NUMBER OF BARS EACH FACE	SIZE OF BAR
36" - 48"	5	#3
49" - 54"	6	#4
55" - 60"	7	#4
61" - 66"	8	#4
67" - 72"	9	#4
73" - 78"	10	#4

BEAM INTERMEDIATE BARS
TYPICAL DETAIL
NO SCALE

17

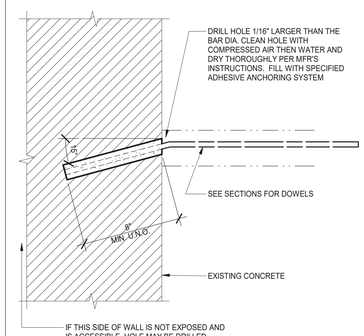


ELEVATION
DEEP DROP IN TOP OF BEAM



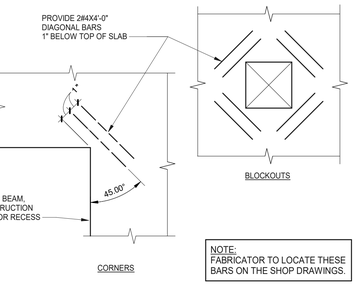
ELEVATION
SHALLOW DROP IN TOP OF BEAM
TYPICAL DETAIL
NO SCALE

13



SETTING DOWELS IN EXISTING CONCRETE
TYPICAL DETAIL
NO SCALE

14

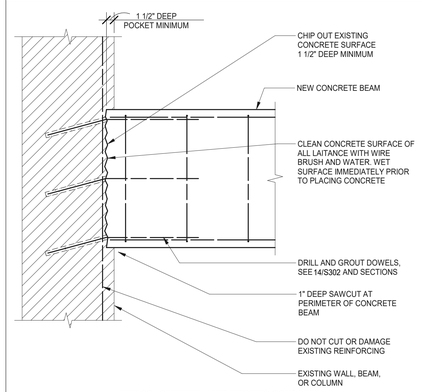


CORNERS

NOTE:
FABRICATOR TO LOCATE THESE BARS ON THE SHOP DRAWINGS.

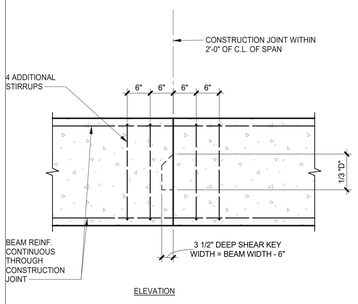
RE-ENTRANT CORNER REINFORCING
TYPICAL DETAIL
NO SCALE

16



NEW CONCRETE BEAM TO EXISTING CONCRETE
TYPICAL DETAIL
NO SCALE

18



ELEVATION

BEAM VERTICAL CONSTRUCTION JOINT
TYPICAL DETAIL
NO SCALE

19

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D|R Datum Rios
www.datumrios.com | Co. Reg. No. F-18874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BUCKEY STORK

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
TYPICAL FOUNDATION DETAILS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED PROFESSIONAL ENGINEER
Lee Christian
09/19/2025

12.02.2025
DRAWN BY: AG | CHECKED BY: SS
R22301.01

S302

100% CONSTRUCTION DOCUMENTATION

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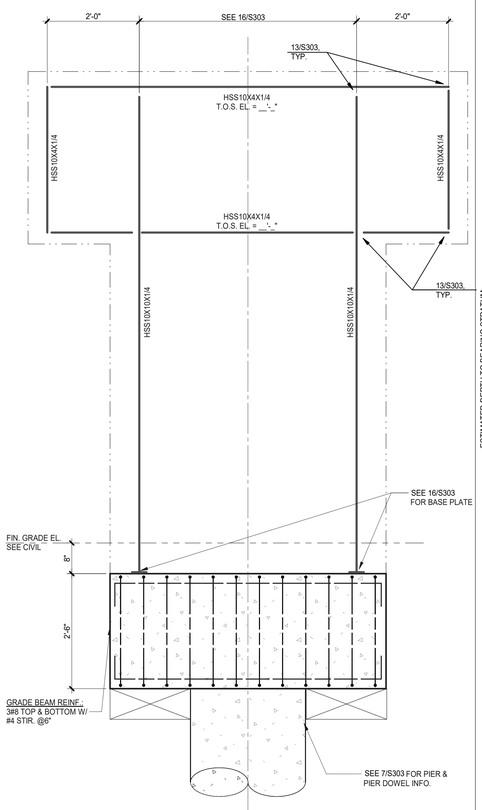
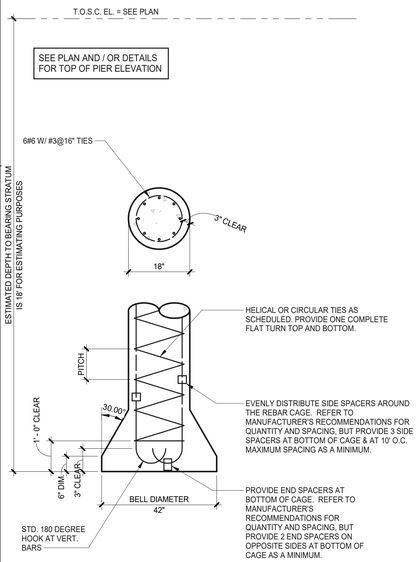


3/4" = 1'-0" **6**



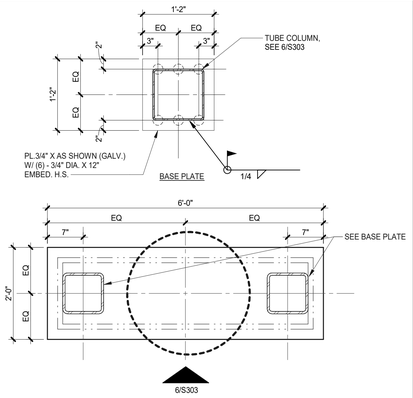
NOTE TO CONTRACTOR:
VERIFY BEARING STRATUM CONFORMS WITH DRILLED PIER NOTES.

DRILLED PIER WITH UNDERREAMED SHAFT

TYPICAL DETAIL

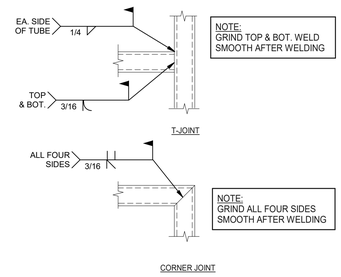
NO SCALE

7



MARQUEE SIGN FOUNDATION PLAN

16



TYPICAL DETAIL

NO SCALE

13

UNDERRRARMED DRILLED PIER NOTES:

1. PIER DRILLING MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL ENGINEER. CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER AT LEAST 2 DAYS IN ADVANCE OF DRILLING TO COORDINATE INSPECTION.
2. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE VALUE OF 3,500 POUNDS PER SQUARE FOOT IN END BEARING, AS RECOMMENDED IN THE SOIL REPORT, PREPARED BY ALPHA TESTING , DATED JULY 5, 2023.
3. BEARING STRATUM SHOWN ON THE PIER DETAILS IS CLAYEY SOILS.
4. PIERS ARE INDICATED ON DETAIL 6/S303.
5. PIER SIZES, REINFORCING, AND DEPTHS ARE SHOWN ON DETAIL 7/S303.
6. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD STOCK LENGTHS AND CUT AS REQUIRED BY THE ACTUAL FIELD MEASURED DEPTH OF THE PIER. SPLICES IN VERTICAL REINFORCING SHALL BE 64 BAR DIAMETERS, AND REINFORCING SHALL EXTEND TO 3 INCHES FROM BOTTOM OF HOLE, UNLESS SHOWN OTHERWISE.
7. THE CONTRACTOR SHALL TAKE ACCURATE MEASUREMENTS OF THE DEPTH OF PENETRATION INTO THE BEARING STRATUM, TO BE ASSURED OF CONFORMANCE WITH THE DEPTH OF PENETRATION REQUIRED BY THE PIER SCHEDULE, AND SUBMIT A REPORT OF DEPTHS OF PENETRATION DRILLED TO THE ENGINEER.
8. REINFORCING STEEL SHOP DRAWINGS SHALL INCLUDE DRAWINGS FOR PLACING OF TEMPLATES TO SET DOWELS IN PIERS.
9. PIER HOLES SHALL BE COMPLETED AND FILLED WITH CONCRETE WITHIN 8 HOURS AFTER THE START OF ANY DRILLING.
10. ELEVATION OF TOP OF PIERS, WHERE NOT GIVEN, IS AT THE BOTTOM OF THE DEEPEST INTERSECTING BEAM OR WALL SUPPORTED BY THE PIER. CONTRACTOR SHALL CALCULATE ALL TOP OF PIER ELEVATIONS BEFORE PROCEEDING WITH THE PIER DRILLING OPERATION.
11. REMOVE EXCESS CONCRETE AT THE TOP OF THE PIER BEYOND THE LIMITS OF THE PIER DIAMETER. FORM SIDES OF PIER EXTENSIONS TO THE SAME DIAMETER AS SHAFT BELOW, AVOIDING OVERHANGS IN EXPANSIVE CLAY. USE SUREVOID COMMERCIAL SURETOP OR SONOTUBE COLLAR FORMS AT TOP OF EACH HOLE TO MAINTAIN SHAPE.
12. DRILL PIERS AFTER ALL SOIL TREATMENT, FILLING, AND COMPACTION HAVE BEEN COMPLETED IN THE AREA TO BE DRILLED. DISTURBED AREAS SHALL BE RECOMPACTED.
13. CONTRACTOR SHALL PROVIDE ADDITIONAL PIER REINFORCING STEEL (CIRCULAR TIES, HELICAL TIES, DIAGONAL STRUTS, AND/OR VERTICAL REINFORCING), AS REQUIRED TO FACILITATE PLACEMENT OF THE REINFORCING CAGE WITHOUT BUCKLING, COLLAPSING OR EXCESSIVE DEFLECTION.
14. PIERS SHALL NOT BE LARGER THAN THE DIAMETER SHOWN (PLUS 2-INCH TOLERANCE) IN ORDER TO LIMIT SURFACE AREA IN CONTACT WITH EXPANSIVE CLAY.
15. WHERE TWO PIERS ARE CLOSER TOGETHER THAN TWO TIMES THE DIAMETER OF THE LARGER PIER (CLEAR DISTANCE), WAIT AT LEAST 24 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND.
16. DRILLED PIERS SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH ACI 336.3R-14 CHAPTERS 5 AND 6.

20

Datum Rios
www.datumrios.com | Co. Reg. No. F-18874
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FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
FOUNDATION SECTIONS AND DETAILS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED PROFESSIONAL ENGINEER
Lee Christian
09/19/2025

12.02.2025
DRAWN BY: AG | CHECKED BY: SS
R22301.01

S303

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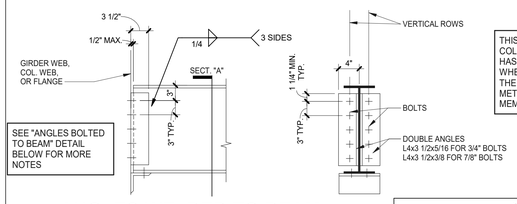
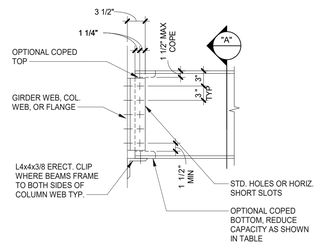


SEE "ANGLES BOLTED TO BEAM" DETAIL BELOW FOR MORE NOTES

THIS CONNECTION SHALL BE USED ONLY WHEN CONNECTING BEAMS TO COLUMNS OR WHEN CONNECTING BEAMS TO GIRDERS WHERE GIRDER HAS BEAM CONNECTION ON ONE SIDE ONLY. IF USED AT LOCATIONS WHERE A BEAM CONNECTION IS OPPOSED BY A BEAM CONNECTION ON THE OTHER SIDE OF THE SUPPORTING MEMBER, AN OSHA-APPROVED METHOD MUST BE USED FOR TEMPORARY ERECTION SUPPORT OF BOTH MEMBERS.

ANGLES WELDED TO BEAM



ANGLES BOLTED TO BEAM

SECT. "A"

CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	WELDED TO BEAM WEB MAX REACTION (KIPS) 3/4" DIA. BOLTS	WELDED TO BEAM WEB MAX REACTION (KIPS) 7/8" DIA. BOLTS	BOLTED TO BEAM WEB MAX REACTION (KIPS) 3/4" DIA. BOLTS	BOLTED TO BEAM WEB MAX REACTION (KIPS) 7/8" DIA. BOLTS	REDUCTION FOR COPED BOTTOM	MIN. ANGLE LENGTH (IN.)
W8 TO W12	2	.230	29	29	14	13	4	5 1/2
W12 TO W18	3	.235	51	51	25	23	4	8 1/2
W16 TO W24	4	.250	82	82	42	39	5	11 1/2
W18 TO W30	5	.300	104	120	63	59	6	14 1/2
W21 TO W40	6	.350	124	148	87	82	7	17 1/2
W24 TO W44	7	.395	145	172	115	108	8	20 1/2
W30 TO W44	8	.470	165	197	156	147	--	23 1/2
W33 TO W44	9	.550	185	221	185	194	--	26 1/2
W36 TO W44	10	.600	205	245	205	235	--	29 1/2
W40 TO W44	11	.630	226	269	226	269	--	32 1/2
W44	12	.710	246	294	246	294	--	35 1/2

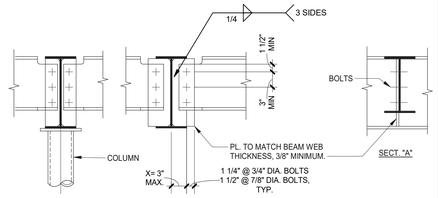
NOTE: VALUES IN THE COLUMNS LABELED "BOLTED TO BEAM WEB" MAY BE INCREASED BY THE RATIO OF THE ACTUAL BEAM WEB THICKNESS TO THE MINIMUM BEAM WEB THICKNESS TABULATED. FOR THIS CALCULATION THE BEAM WEB THICKNESS MAY NOT BE TAKEN MORE THAN 0.43" FOR 3/4" DIA. BOLTS OR MORE THAN 0.62" FOR 7/8" DIA. BOLTS.

TYPICAL DOUBLE ANGLE CONNECTION

TYPICAL DETAIL

NO SCALE

A



CONNECTION LOAD CAPACITY (X = 3" MAX.)

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	MAX REACTION (KIPS) 3/4" DIA. BOLTS	MAX REACTION (KIPS) 7/8" DIA. BOLTS
W8x10	2	.170	14	14
W10x12	2	.190	14	20
W12x14	3	.200	26	29
W12x16	3	.220	26	32
W8 TO W12	2	.230	14	20
W12 TO W18	3	.235	26	34
W16 TO W24	4	.250	37	51
W18 TO W30	5	.300	48	65
W21 TO W44	6	.350	59	78
W24 TO W44	7	.395	70	91
W30 TO W44	8	.470	81	104
W33 TO W44	9	.550	91	117
W36 TO W44	10	.600	102	130
W40 TO W44	11	.630	112	143
W44	12	.710	123	156

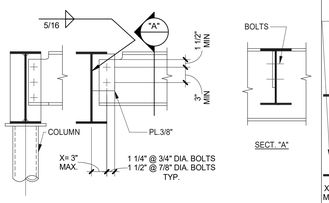
NOTE:
LARGER BM. REACTION MUST BE LESS THAN 3 TIMES SMALLER BM. REACTION

TYP. SINGLE PLATE BOLTED CONNECTION FOR BEAMS ON BOTH SIDES ONLY

TYPICAL DETAIL

NO SCALE

B



CONNECTION LOAD CAPACITY (X = 3" MAX.)

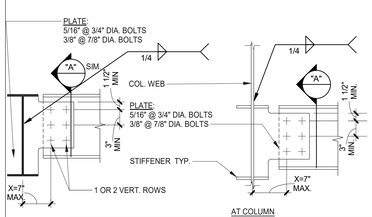
WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MAX REACTION (KIPS) 3/4" DIA. BOLTS	MAX REACTION (KIPS) 7/8" DIA. BOLTS
W8 TO W12	2	9	12
W12 TO W18	3	18	23
W16 TO W18	4	29	39
W18	5	41	56
(NOT PERMITTED FOR BEAMS DEEPER THAN 18")			

SHEAR TAB BOLTED CONNECTION FOR BEAMS ON ONE SIDE ONLY

TYPICAL DETAIL

NO SCALE

C



CONNECTION LOAD CAPACITY (X = 7" MAX.)

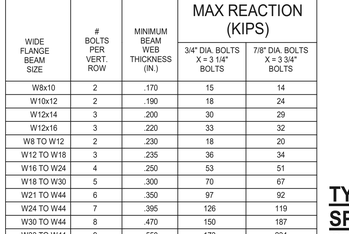
WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	MAX REACTION (KIPS) 3/4" DIA. BOLTS 1 ROW	3/4" DIA. BOLTS 2 ROWS	7/8" DIA. BOLTS 1 ROW	7/8" DIA. BOLTS 2 ROWS
W8x10	2	.170	4	2	5	3
W10x12	2	.190	4	3	5	4
W12x14	3	.200	8	10	11	11
W12x16	3	.220	8	13	11	15
W8 TO W12	2	.230	4	6	5	8
W12 TO W18	3	.235	8	16	11	18
W16 TO W24	4	.250	16	28	21	33
W18 TO W30	5	.300	24	41	32	55
W21 TO W44	6	.350	33	56	45	77
W24 TO W44	7	.395	43	73	59	100
W30 TO W44	8	.470	54	92	74	126
W33 TO W44	9	.550	65	113	89	154
W36 TO W44	10	.600	77	134	105	183
W40 TO W44	11	.630	88	155	120	212
W44	12	.710	100	178	136	233

SINGLE PLATE BOLTED CONNECTION

TYPICAL DETAIL

NO SCALE

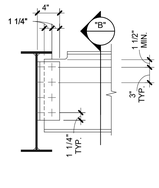
D

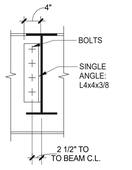


WELDED TO GIRDER

CONNECTION LOAD CAPACITY

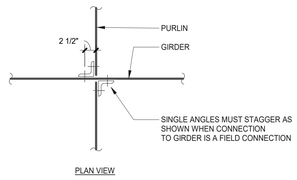
WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	WELDED TO GIRDER MAX REACTION (KIPS) 3/4" DIA. BOLTS	WELDED TO GIRDER MAX REACTION (KIPS) 7/8" DIA. BOLTS	BOLTED TO GIRDER MAX REACTION (KIPS) 3/4" DIA. BOLTS	BOLTED TO GIRDER MAX REACTION (KIPS) 7/8" DIA. BOLTS	MIN. ANGLE LENGTH (IN.)
W8 TO W12	2	21	22	10	14	5 1/2
W12 TO W18	3	31	35	21	28	8 1/2
W16 TO W24	4	42	48	32	44	11 1/2
W18 TO W30	5	53	61	43	59	14 1/2
W21 TO W40	6	63	74	55	75	17 1/2
W24 TO W44	7	74	86	66	90	20 1/2
W30 TO W44	8	84	98	77	105	23 1/2
W33 TO W44	9	95	110	88	120	26 1/2
W36 TO W44	10	106	123	99	134	29 1/2
W40 TO W44	11	117	135	110	149	32 1/2
W44	12	127	147	120	164	35 1/2





BOLTED TO GIRDER

SECT. "B"

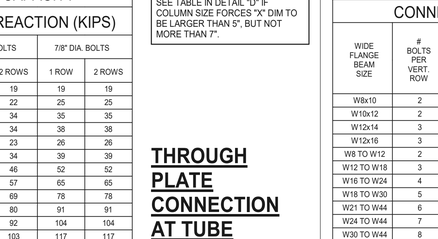


TYPICAL SINGLE ANGLE CONNECTION

TYPICAL DETAIL

NO SCALE

E



NOTE:
DESIGN SINGLE BENT PLATE CONNECTION FOR SINGLE SHEAR AND ECCENTRICITY REFER TO CONNECTION "E"

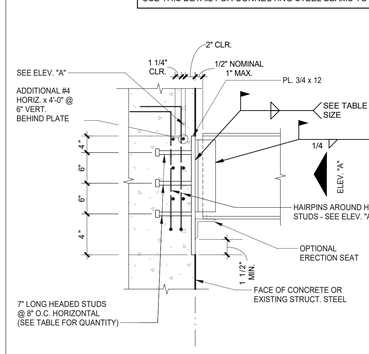
SKEWED SIMPLE FRAMING CONNECTIONS - BEAM TO BEAM

TYPICAL DETAIL

NO SCALE

F

USE THIS DETAIL FOR CONNECTING STEEL BEAMS TO EMBED PLATES ONLY



NOTES:
1. STUDS TO BE LOCATED A MIN. OF 4" FROM ANY EDGE OF CONCRETE SUPPORT.
2. EMBED PLATES MAY BE INCREASED IN SIZE TO LIMIT THE NUMBER OF DIFFERENT SIZE PLATES.
3. CONCRETE REINFORCING IS CRITICAL TO ACHIEVE THE TABULATED CAPACITIES. ENGINEER SHALL BE NOTIFIED WHEN REINFORCING CANNOT BE PLACED AS INDICATED.

CONNECTION LOAD CAPACITY

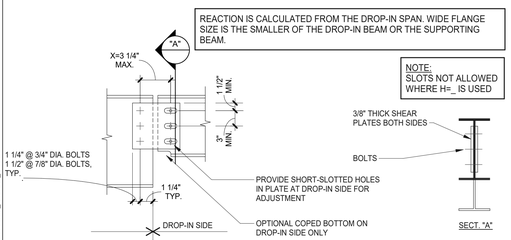
WIDE FLANGE BEAM SIZE	ANGLE LENGTH	1/4" WELD & 3 KSI CONC.	5/16" WELD & 4 KSI CONC.	STUDS
W8 TO W12	5.5	16	20	4-7/8" DIA.
W12 TO W18	8.5	35	41	8-7/8" DIA.
W16 TO W24	11.5	49	57	12-7/8" DIA.
W18 TO W30	14.5	63	72	16-7/8" DIA.
W21 TO W36	14.5	70	80	18-7/8" DIA.
W24 TO W36	14.5	76	88	20-7/8" DIA.

DOUBLE ANGLE CONNECTION WELDED TO EMBED PLATES

TYPICAL DETAIL

NO SCALE

G

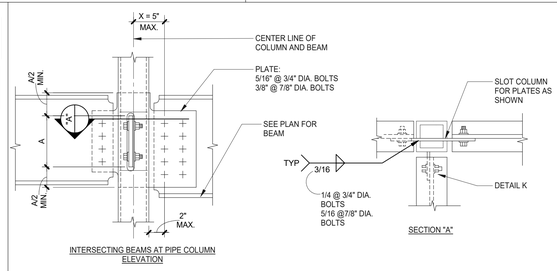


CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	MAX REACTION (KIPS) 3/4" DIA. BOLTS X = 3 1/4"	MAX REACTION (KIPS) 7/8" DIA. BOLTS X = 3 3/4"
W8x10	2	.170	15	14
W10x12	2	.190	18	24
W12x14	3	.200	30	29
W12x16	3	.220	33	32
W8 TO W12	2	.230	18	20
W12 TO W18	3	.235	36	34
W16 TO W24	4	.250	53	51
W18 TO W30	5	.300	70	67
W21 TO W44	6	.350	97	92
W24 TO W44	7	.395	126	119
W30 TO W44	8	.470	150	187
W33 TO W44	9	.550	173	234
W36 TO W44	10	.600	195	261
W40 TO W44	11	.630	217	287
W44	12	.710	238	313

TYPICAL SHEAR SPLICE CONNECTION

H



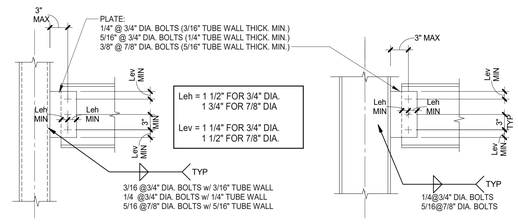
CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	MAX REACTION (KIPS) 3/4" DIA. BOLTS 1 ROW	3/4" DIA. BOLTS 2 ROWS	7/8" DIA. BOLTS 1 ROW	7/8" DIA. BOLTS 2 ROWS
W8x10	2	.170	19	19	19	19
W10x12	2	.190	20	22	25	25
W12x14	3	.200	31	34	35	35
W12x16	3	.220	31	34	38	38
W8 TO W12	2	.230	20	23	26	26
W12 TO W18	3	.235	31	34	39	39
W16 TO W24	4	.250	41	46	52	52
W18 TO W30	5	.300	52	57	65	65
W21 TO W44	6	.350	62	69	78	78
W24 TO W44	7	.395	72	80	91	91
W30 TO W44	8	.470	83	92	104	104
W33 TO W44	9	.550	93	103	117	117
W36 TO W44	10	.600	104	115	130	130
W40 TO W44	11	.630	114	127	143	143
W44	12	.710	124	138	156	156

SEE TABLE IN DETAIL "D" IF COLUMN SIZE FORCES "X" DIM TO BE LARGER THAN 5", BUT NOT MORE THAN 7".

THROUGH PLATE CONNECTION AT TUBE COLUMN

J



TUBE COL.-WALL THICKNESS MIN.
3/16" @ 3/4" DIA. BOLTS (REDUCED CAPACITIES)
1/4" @ 3/4" DIA. BOLTS
5/16" @ 7/8" DIA. BOLTS

CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT. ROW	MINIMUM BEAM WEB THICKNESS (IN.)	MAX REACTION (KIPS) 3/4" DIA. BOLTS (3/16" WALL THK)	3/4" DIA. BOLTS (1/4" WALL THK)	7/8" DIA. BOLTS (5/16" WALL THK)
W8x10	2	.170	16	19	19
W10x12	2	.190	16	20	25
W12x14	3	.200	25	31	35
W12x16	3	.220	25	31	38
W8 TO W12	2	.230	16	20	26
W12 TO W18	3	.235	25	31	39
W16 TO W24	4	.250	34	42	52
W18 TO W30	5	.300	43	53	65
W21 TO W44	6	.350	51	63	78
W24 TO W44	7	.395	59	74	91
W30 TO W44	8	.470	67	84	104
W33 TO W44	9	.550	75	94	117
W36 TO W44	10	.600	83	103	129
W40 TO W44	11	.630	91	111	141
W44	12	.710	100	118	153

SINGLE PLATE CONNECTION AT COLUMN

K

CONNECTION NOTES

PRE-ENGINEERED CONNECTION DETAILS ARE PROVIDED TO ASSIST THE DETAILER AND FABRICATOR. WHERE THESE PRE-ENGINEERED DETAILS ARE USED THEN NO DESIGN WORK IS REQUIRED BY THE FABRICATOR AND NO CALCULATIONS ARE REQUIRED TO BE SUBMITTED. WHERE THESE PRE-ENGINEERED DETAILS ARE USED, ALL ASPECTS OF THE CONNECTIONS MUST CONFORM TO THE PRE-ENGINEERED DETAILS.

THE FABRICATOR MAY, AT HIS OPTION, SUBMIT ALTERNATE CONNECTION DETAILS FOR USE ON THE PROJECT. ALTERNATE CONNECTION DETAILS MUST CONFORM TO THE CONCEPTS SHOWN IN THE PRE-ENGINEERED CONNECTION DETAILS. SUBMITTALS CONTAINING ALTERNATE CONNECTION DETAILS MUST INCLUDE DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER PER THE SPECIFICATIONS.

BEAMS OF VARIOUS WEB THICKNESSES ARE GROUPED BASED ON THEIR DEPTH. NUMBER OF BOLTS SHOWN ARE THEREFORE BASED ON THE THINEST WEB IN EACH GROUP.

CONNECTIONS SHOWN IN THE DRAWINGS WHICH ARE NOT COVERED BY THE PRE-ENGINEERED DETAILS SUCH AS TRUSS CONNECTIONS, WIND BRACE CONNECTIONS OR OTHER NON TYPICAL CONNECTIONS MUST BE DESIGNED BY THE FABRICATOR AND SUBMITTED WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER PER THE SPECIFICATIONS. NUMBER OF ROWS OF BOLTS IN SIMPLE BEAM CONNECTIONS SHALL NOT BE LESS THAN THE NUMBER FOUND BY DIVIDING THE SMALLER BEAM DEPTH (IN INCHES) BY SIX, AND ROUNDING UP ANY FRACTION TO THE NEXT HIGHER NUMBER.

NOTES:
1. FABRICATOR SHALL SELECT TYPICAL BEAM CONNECTIONS FROM THESE DETAILS USING LOAD REACTIONS GIVEN ON THE PLAN (AS _K) OR SCHEDULE. WHERE REACTIONS ARE NOT PROVIDED FOR COMPOSITE BEAMS, DESIGN CONNECTIONS TO DEVELOP THE FULL CAPACITY OF THE BEAM WEB IN SHEAR. WHERE REACTIONS ARE NOT PROVIDED FOR NON-COMPOSITE BEAMS, DESIGN CONNECTIONS FOR 60 PERCENT OF THE MAXIMUM TOTAL ALLOWABLE (ASD) UNIFORM LOAD FOR THE BEAM SIZE AND SPAN GIVEN IN THE 50 KSI TABLES IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL.
2. ALL BEAM REACTIONS ARE IN KIPS, AT SERVICE LOADS (UNFACTORED).
3. TABULATED CONNECTION CAPACITIES ARE UNFACTORED AND ARE BASED ON GRADE 50 BEAMS, A36 PLATES AND ANGLES, A325N BOLTS (BEARING TYPE) AND E70XX ELECTRODES.
4. SLOTTED HOLES ARE NOT PERMISSIBLE EXCEPT WHERE SHOWN.
5. WHERE HORIZONTAL FORCES ARE SHOWN ON THE PLAN (AS H= K), THE FABRICATOR SHALL SIZE THE CONNECTION TO TRANSFER THE HORIZONTAL FORCE IN ADDITION TO THE REQUIRED VERTICAL REACTION (CONNECTION CAPACITY=V+H). SLOTTED HOLES ARE NOT PERMITTED.
6. COMPLY WITH AISC MIN. EDGE DISTANCES.

L

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PRINT DATE: 9/19/2025 1:25:19 PM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/DISD Harry Stone Montessori Acad Reno_STRUCT_R23.rvt

Datum Rios
www.datumrios.com | Co. Reg. No. F-16874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
SIMPLE BEAM CONNECTION DETAILS

09/19/2025

12.02.2025

DRAWN BY: AG | CHECKED BY: SS

R22301.01

S400

100% CONSTRUCTION DOCUMENTATION

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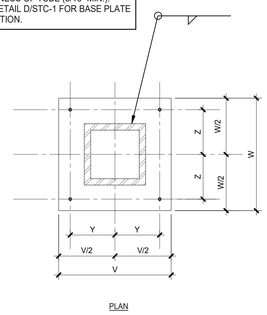
NOTES:
1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE (3/16" MIN.).
2. SEE DETAIL D/STC-1 FOR BASE PLATE ELEVATION.

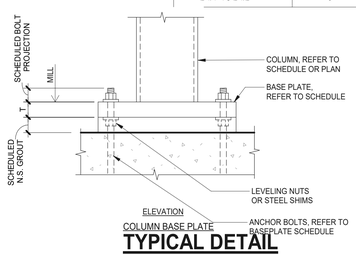


PLAN

COLUMN BASE PLATE - 4 BOLTS
TYPICAL DETAIL
NO SCALE
1

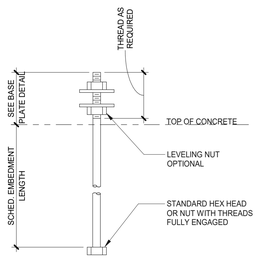
NOTE:
CONTRACTOR SHALL INSTALL GROUT IMMEDIATELY AFTER THE COLUMN IS ERECTED AND LEVELED.

BOLT PROJECTION AND GROUT THICKNESS SCHEDULE	
ANCHOR BOLT DIAMETER	BOLT PROJECTION & GROUT THICKNESS
1" OR LESS	1 1/2"
1 1/8" TO 1 1/2"	2"
1 3/4" TO 2"	2 1/2"
2 1/4" TO 2 1/2"	3"

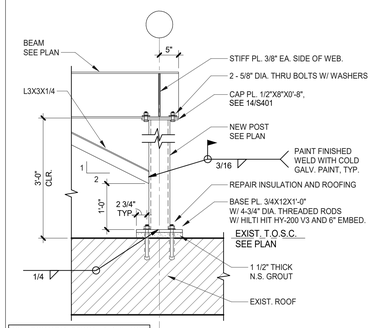


ELEVATION

COLUMN BASE PLATE
TYPICAL DETAIL
NO SCALE
2



ANCHOR BOLTS
TYPICAL DETAIL
NO SCALE
3



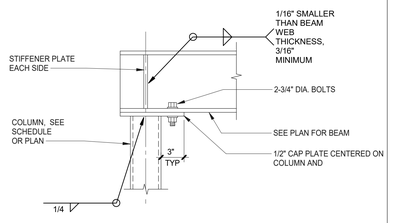
NOTE: SCAN AND LOCATE EXISTING REINFORCEMENT. SEE NOTES 7 AND 8 ON FIELD DRILLED ANCHOR NOTES ON S002. DO NOT DAMAGE EXISTING REINFORCEMENT.

4

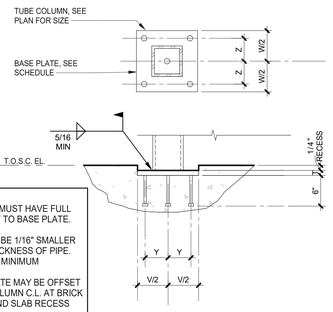
BASE PLATE SCHEDULE

MARK	DIMENSIONS					NUMBER, SIZE, AND SCHEDULED EMBEDMENT LENGTH OF A.B.	DETAIL NUMBER
	V	W	Y	Z	T		
BP-1	10"	10"	3 1/2"	3 1/2"	1"	(4) - 3/4" DIA. X 1'-6" A.B.	1/S401

NOTES:
1. SEE ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATE SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.

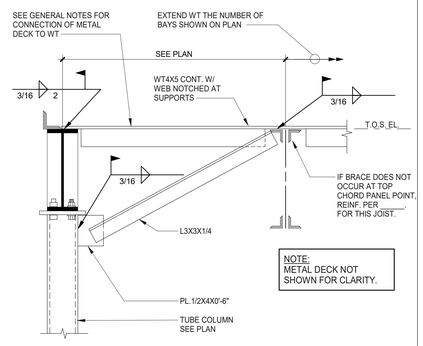


CAP PLATE - BOLTED CONNECTION
TYPICAL DETAIL
NO SCALE
6



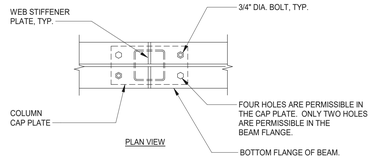
NOTES:
1. COLUMN MUST HAVE FULL CONTACT TO BASE PLATE.
2. WELD TO BE 1/16" SMALLER THAN THICKNESS OF PIPE. USE 5/16" MINIMUM
3. BASE PLATE MAY BE OFFSET FROM COLUMN C.L. AT BRICK LEDGE AND SLAB RECESS
4. ACCOMPLISH RECESS BY TAPING 1/4" THICK MASONITE TO TOP OF PLATE.

BASE PLATE AT TUBE COLUMN
TYPICAL DETAIL
NO SCALE
7



NOTE:
METAL DECK NOT SHOWN FOR CLARITY.

COLUMN BRACE
TYPICAL DETAIL
NO SCALE
8

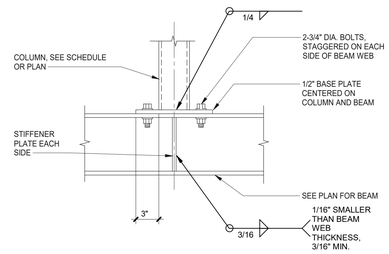


PLAN VIEW

PLAN - BEAM/COLUMN CONNECTION DETAIL
NO SCALE

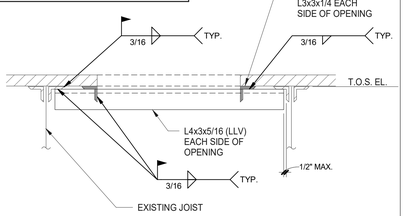
NOTES:
1. SEE ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATE SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.

NOTE:
STIFFENER PLATE SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM THICKNESS, WHICHEVER IS GREATER.

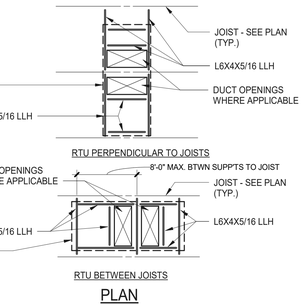


BASE PLATE - BOLTED CONNECTION

NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR OPENING SIZE AND LOCATION.
2. CUT AND REMOVE ROOF DECK AFTER ANGLE FRAME IS INSTALLED.



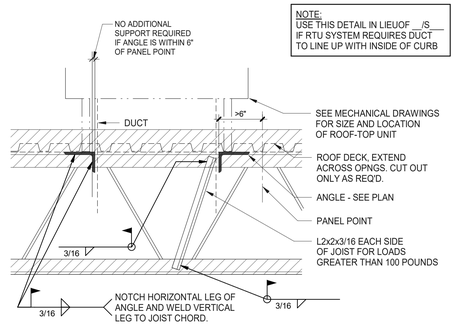
OPENING FRAMING IN EXISTING ROOF
TYPICAL DETAIL
11



PLAN

SCHEMATIC ARRANGEMENT OF RTU MISC. METAL SUPPORT ANGLES

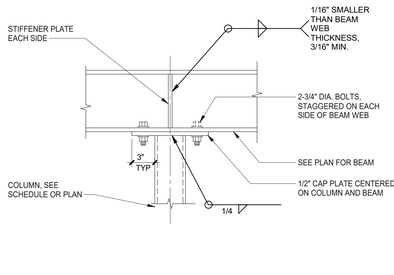
NOTE:
CONTRACTOR TO PROVIDE MISC. METALS COORDINATED WITH THE EQUIPMENT FURNISHED. ARRANGEMENT SHOWN IS SCHEMATIC ONLY AND A FINAL ARRANGEMENT IS TO BE DE-SIGNED BY THE CONTRACTOR. STRENGTHEN JOIST AS REQ'D. TO COMPLY WITH THIS.



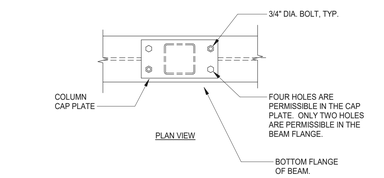
NOTE:
USE THIS DETAIL IN LIEUOF __/S__ IF RTU SYSTEM REQUIRES DUCT TO LINE UP WITH INSIDE OF CURB

MECHANICAL UNIT CURB BEARING ON EXISTING JOISTS

MECHANICAL UNIT SUPPORT
TYPICAL DETAIL
13



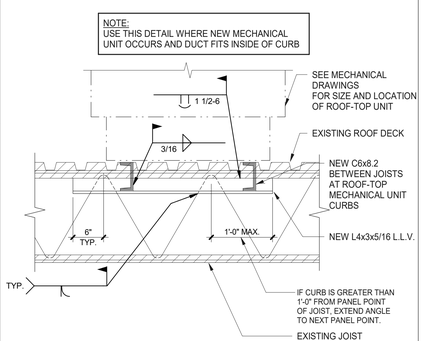
CAP PLATE - BOLTED CONNECTION
TYPICAL DETAIL
NO SCALE
14



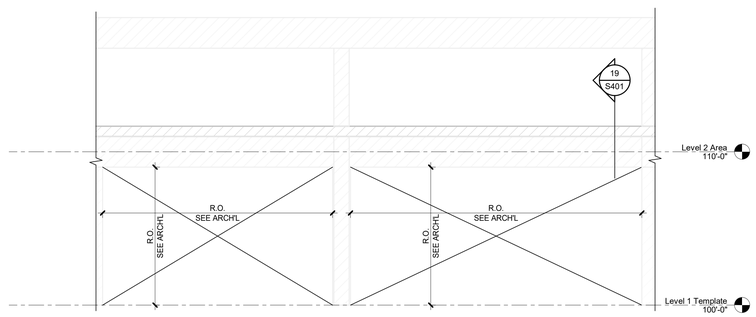
PLAN VIEW

PLAN - BEAM/COLUMN CONNECTION DETAIL
TYPICAL DETAIL
NO SCALE
15

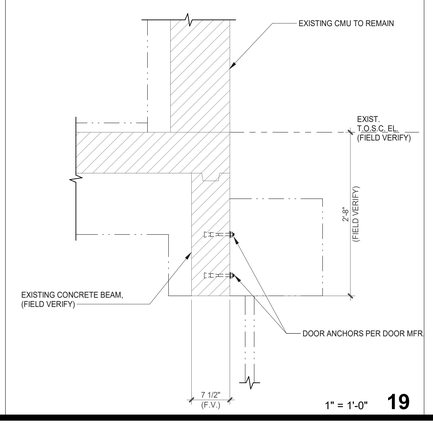
NOTE:
USE THIS DETAIL WHERE NEW MECHANICAL UNIT OCCURS AND DUCT FITS INSIDE OF CURB



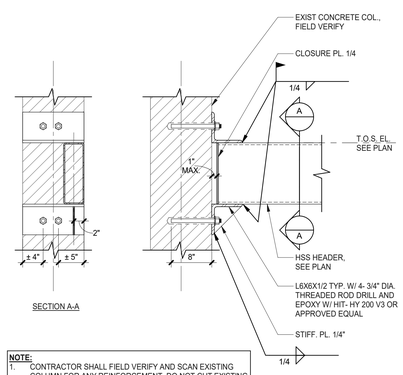
MECHANICAL UNIT SUPPORT ON EXISTING JOIST
TYPICAL DETAIL
16



1/4" = 1'-0"
18



1" = 1'-0"
19



SECTION A-A

NOTE:
1. CONTRACTOR SHALL FIELD VERIFY AND SCAN EXISTING COLUMN FOR ANY REINFORCEMENT. DO NOT CUT EXISTING REINFORCEMENT. DRILL HOLES IN THE COLUMN AFTER EXISTING REINFORCEMENT LOCATION IS VERIFIED.

20

Datum Rios
www.datumrios.com | Co. Reg. No. F-16874
303 Pearl Parkway Ste 210
San Antonio, TX 78215, 210-469-3699
Datum Rios Project No. 23724

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — MAGGY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, Tx 75216
FOR
DISD

PROVIDENCE TOWERS
5001 SPRING VALLEY RD.
SUITE 225E
DALLAS, TX 75244

PHONE: (214) 377-8662

DRAWING TITLE:
TUBE COLUMN SCHEDULE AND DETAILS

STATE OF TEXAS — LEE CHRISTIAN — 101027 — LICENSED PROFESSIONAL ENGINEER
Lee Christian
09/19/2025

12.02.2025
DRAWN BY: AG | CHECKED BY: SS
R22301.01

S401

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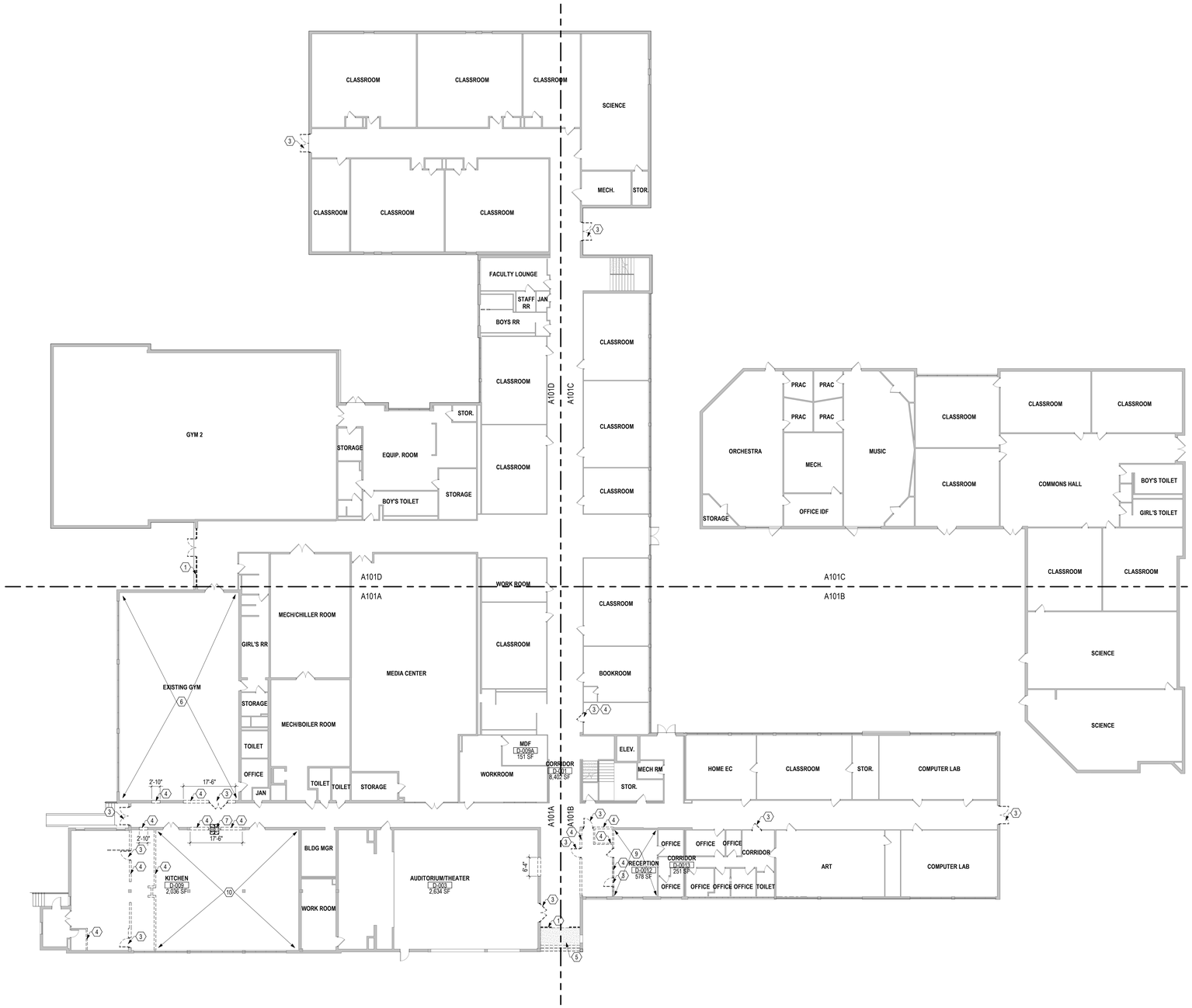
DEMOLITION LEGEND

XXX	ROOM NUMBER
	CONSTRUCTION TO REMAIN
	CONSTRUCTION TO BE REMOVED
	DOOR TO REMAIN
	DOOR TO BE REMOVED

GENERAL NOTES - DEMOLITION PLANS

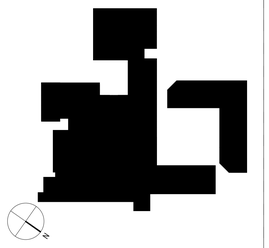
1. CARE SHALL BE EXERCISED TO PROTECT CONSTRUCTION INDICATED TO REMAIN AND ADJACENT AREAS FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AND REPLACING ANY ITEMS DAMAGED DURING CONSTRUCTION.
2. THE DEMOLITION DRAWINGS SHOWN REPRESENT A LAYOUT OF EXISTING FLOOR PLANS AND HAVE BEEN PREPARED TO OUTLINE THE GENERAL INTENT OF THE DEMOLITION WORK. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DRAWINGS AS WELL AS PROVIDING AN INVENTORY OF ITEMS WHERE REMOVAL IS REQUIRED TO ACCOMMODATE NEW WORK. ITEMS AND/OR DISCREPANCIES UNCOVERED DURING THE PRE BID SITE SURVEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID. NO COMPENSATION WILL BE GIVEN FOR THE REMOVAL OF OBVIOUS ITEMS THAT COULD HAVE BEEN UNCOVERED DURING THE PRE BID SITE SURVEY.
3. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF/HERSELF WITH ALL ASPECTS OF THE BUILDING FLOOR PLANS, CONSTRUCTION MATERIALS AND OF ALL LOOSE AND FIXED ITEMS NEEDED TO BE DEMOLISHED IN ORDER TO ACCOMMODATE NEW AND DEMOLITION WORK.
4. DEMOLITION WORK SHALL BE CUT CLEANLY TO ALLOW NEW WORK TO PLANE INTO AND/OR INTERSECT EXISTING WORK.
5. CLEAN, PATCH AND REPAIR DAMAGE AND TOUCH-UP PAINT AT EXISTING WALLS RESULTING FROM THE DEMOLITION OR REMOVAL OF EQUIPMENT, CASEWORK, ACOUSTICAL TILE GRID AND ANGLES, FURNISHINGS, WAINSCOT AND LIGHTING ATTACHED TO THE WALL.
6. REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE INDICATED ON THE DRAWINGS UNLESS OTHERWISE NOTED.
7. REFER TO ALL OTHER DISCIPLINES' DRAWINGS FOR MORE INFO.
8. PROVIDE TEMPORARY FLOORING PROTECTION AT CONSTRUCTION ACCESS ROUTES WITHIN THE EXISTING BUILDING LEADING TO THE RENOVATION AREA. CONTRACTOR SHALL COORDINATE EXTENT, LOCATION AND TYPE OF FLOORING PROTECTION WITH THE OWNER. CLEAN EXISTING FLOORING TO PRE-CONSTRUCTION CONDITION WHERE FLOORING PROTECTION IS REMOVED. FLOORING PROTECTION MAY BE WAIVED FOR EITHER VERY MINOR CONSTRUCTION OR DEMOLITION, OR FOR WORK IN UNOCCUPIED SPACES, WITH PRIOR WRITTEN APPROVAL.
9. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL DEMOLISHED ITEMS INCLUDING, BUT NOT LIMITED TO FIXTURES, EQUIPMENT AND BUILDING MATERIALS, ETC. REMOVED AS PART OF THE DEMOLITION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
10. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING CONDITION.
11. PROVIDE SHORING, BRACING AND SUPPORTS ADEQUATE TO MAINTAIN STRUCTURAL INTEGRITY OF THE EXISTING PARTITIONS, CEILINGS, AND RAISED FLOOR SYSTEMS DURING DEMOLITION.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING CONCRETE SLAB/WALLS WHILE ANY SAW-CUTTING OR CORE-DRILLING IS PERFORMED. IF CONDITIONS THAT WILL COMPROMISE STRUCTURAL INTEGRITY ARE FOUND TO BE PRESENT WORK SHALL CEASE AND OWNER MUST BE NOTIFIED IMMEDIATELY.
13. REPLACE EDUCATIONAL CASEWORK IN ALL CLASSROOMS
14. REPLACE CARPET AND BASE THROUGHOUT FACILITY
15. REPLACE EXISTING LIGHTING CONTROLS WITH NEW CONTROLS



1 OVERALL FIRST FLOOR DEMOLITION PLAN

1/16" = 1'-0"

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CODED NOTE LEGEND

1. REMOVE EXISTING STOREFRONT
2. PATCH AND REPAIR
3. REMOVE EXISITING DOOR, HARDWARE, AND TRIM AND PREPARE TO BE REPLACED WITH NEW DOORS AND HARDWARE.
4. INTERIOR WALL TO BE REMOVED. COORDINATE THE EXTENTS WITH DOOR MANUFACTURER. SEE STRUCTURAL DRAWINGS.
5. REMOVE EXISTING STAIR. REMOVE STAIR RISERS/TREADS., HANDRAIL, AND GUARDS.
6. REMOVE EXISTING GYM FLOORING AND INSPECT FOR THE PRESENCE OF TERMITES. NOTIFY DISD IF EXTENSIVE ASSESSMENT OR ABATEMENT IS RECOMMENDED..
7. REMOVE FOUNTAINS. SEE PLUMBING DRAWINGS.
8. REMOVE ALL VCT FLOORING AND PREP SLAB TO RECEIVE NEW TILE FLOORING
9. REMOVE ALL CARPET AND PREPARE FLOOR TO RECIEVE THE NEW FINISH

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - DEMOLITION PLAN

REGISTERED ARCHITECT BRIAN TIBBS 28917 STATE OF TEXAS
12/02/2025

12.02.2025

R22301.01

AD101

100% CD'S SUBMITTAL

REVIT VERSION: 2023
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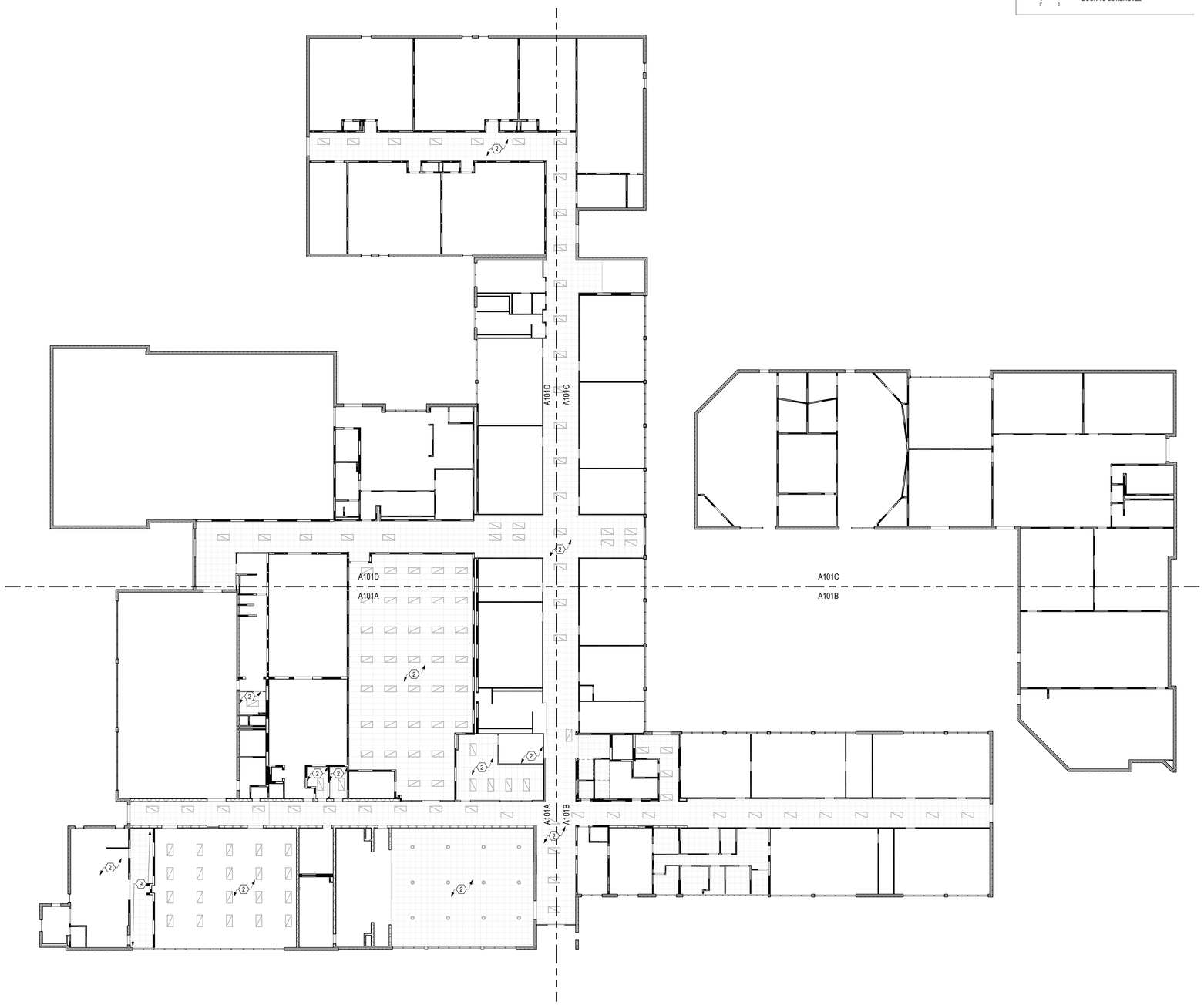
DEMOLITION LEGEND

XXX	ROOM NUMBER
	CONSTRUCTION TO REMAIN
	CONSTRUCTION TO BE REMOVED
	DOOR TO REMAIN
	DOOR TO BE REMOVED

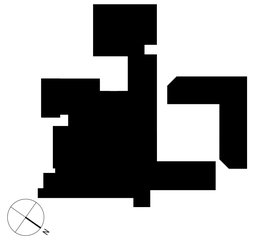
GENERAL NOTES - DEMOLITION PLANS

1. CARE SHALL BE EXERCISED TO PROTECT CONSTRUCTION INDICATED TO REMAIN AND ADJACENT AREAS FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AND REPLACING ANY ITEMS DAMAGED DURING CONSTRUCTION.
2. THE DEMOLITION DRAWINGS SHOWN REPRESENT A LAYOUT OF EXISTING FLOOR PLANS AND HAVE BEEN PREPARED TO OUTLINE THE GENERAL INTENT OF THE DEMOLITION WORK. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DRAWINGS AS WELL AS PROVIDING AN INVENTORY OF ITEMS WHERE REMOVAL IS REQUIRED TO ACCOMMODATE NEW WORK. ITEMS AND/OR DISCREPANCIES UNCOVERED DURING THE PRE BID SITE SURVEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID. NO COMPENSATION WILL BE GIVEN FOR THE REMOVAL OF OBVIOUS ITEMS THAT COULD HAVE BEEN UNCOVERED DURING THE PRE BID SITE SURVEY.
3. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF/HERSELF WITH ALL ASPECTS OF THE BUILDING FLOOR PLANS, CONSTRUCTION MATERIALS AND OF ALL LOOSE AND FIXED ITEMS NEEDED TO BE DEMOLISHED IN ORDER TO ACCOMMODATE NEW AND DEMOLITION WORK.
4. DEMOLITION WORK SHALL BE CUT CLEANLY TO ALLOW NEW WORK TO PLANE INTO AND/OR INTERSECT EXISTING WORK.
5. CLEAN, PATCH AND REPAIR DAMAGE AND TOUCH-UP PAINT AT EXISTING WALLS RESULTING FROM THE DEMOLITION OR REMOVAL OF EQUIPMENT, CASEWORK, ACOUSTICAL TILE GRID AND ANGLES, FURNISHINGS, WAINSCOT AND LIGHTING ATTACHED TO THE WALL.
6. REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE INDICATED ON THE DRAWINGS UNLESS OTHERWISE NOTED.
7. REFER TO ALL OTHER DISCIPLINES' DRAWINGS FOR MORE INFO.
8. PROVIDE TEMPORARY FLOORING PROTECTION AT CONSTRUCTION ACCESS ROUTES WITHIN THE EXISTING BUILDING LEADING TO THE RENOVATION AREA. CONTRACTOR SHALL COORDINATE EXTENT, LOCATION AND TYPE OF FLOORING PROTECTION WITH THE OWNER. CLEAN EXISTING FLOORING TO PRE-CONSTRUCTION CONDITION WHERE FLOORING PROTECTION IS REMOVED. FLOORING PROTECTION MAY BE WAIVED FOR EITHER VERY MINOR CONSTRUCTION OR DEMOLITION, OR FOR WORK IN UNOCCUPIED SPACES, WITH PRIOR WRITTEN APPROVAL.
9. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL DEMOLISHED ITEMS INCLUDING, BUT NOT LIMITED TO FIXTURES, EQUIPMENT AND BUILDING MATERIALS, ETC. REMOVED AS PART OF THE DEMOLITION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
10. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING CONDITION.
11. PROVIDE SHORING, BRACING AND SUPPORTS ADEQUATE TO MAINTAIN STRUCTURAL INTEGRITY OF THE EXISTING PARTITIONS, CEILINGS, AND RAISED FLOOR SYSTEMS DURING DEMOLITION.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING CONCRETE SLAB/WALLS WHILE ANY SAW-CUTTING OR CORE-DRILLING IS PERFORMED. IF CONDITIONS THAT WILL COMPROMISE STRUCTURAL INTEGRITY ARE FOUND TO BE PRESENT WORK SHALL CEASE AND OWNER MUST BE NOTIFIED IMMEDIATELY.
13. REPLACE CARPET AND BASE THROUGHOUT FACILITY



1 **OVERALL FIRST FLOOR DEMOLITION RCP**
1/16" = 1'-0"

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CODED NOTE LEGEND

2 REMOVE EXISTING LIGHT FIXTURES TO BE REPLACED

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 01 - DEMO RCP

REGISTERED ARCHITECT BRIAN K. NOLAN 29893 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
AD102
100% CD'S SUBMITTAL

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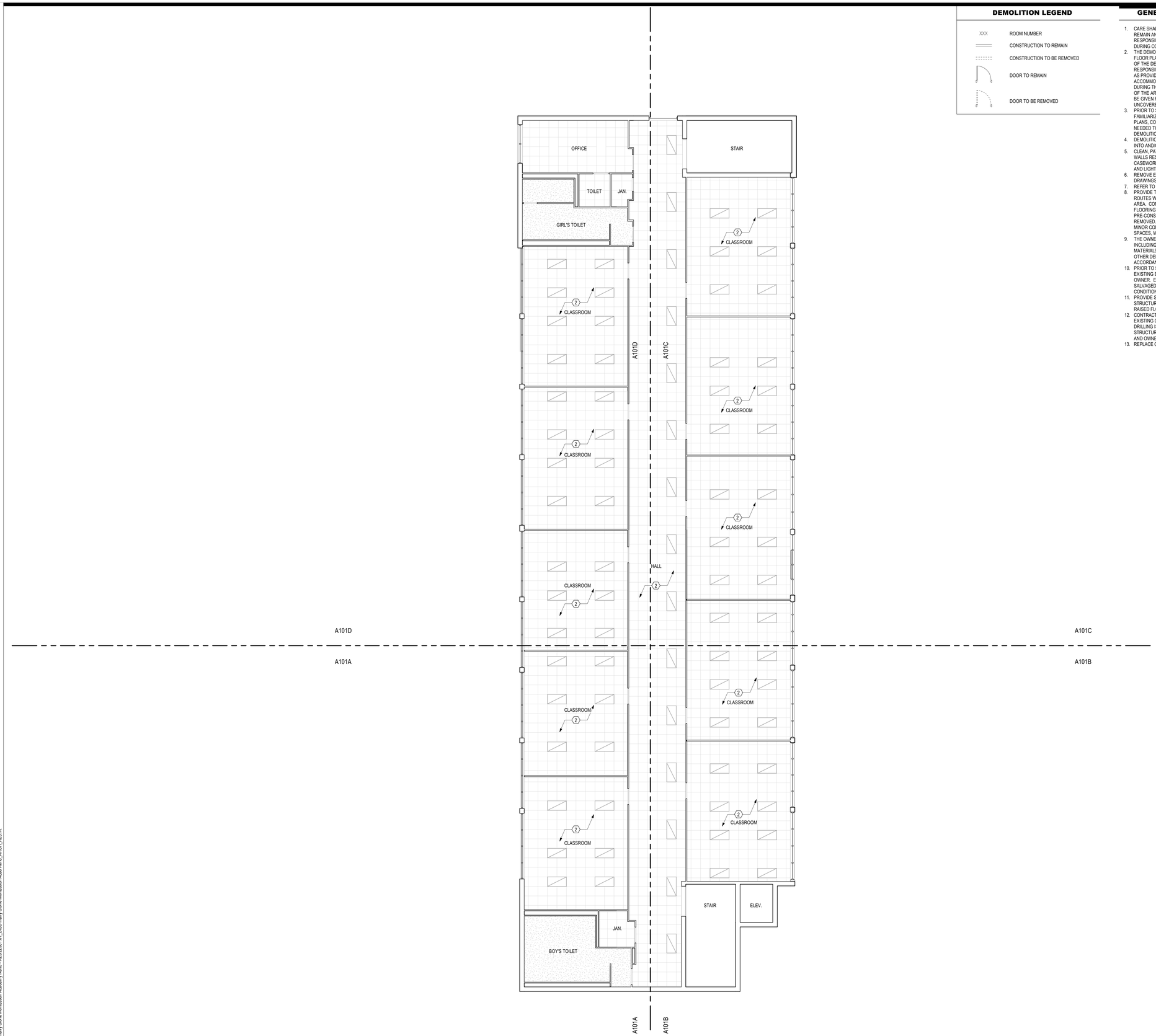


1 OVERALL SECOND FLOOR DEMOLITION RCP
1/8" = 1'-0"

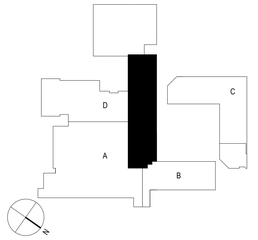
DEMOLITION LEGEND

XXX	ROOM NUMBER
	CONSTRUCTION TO REMAIN
	CONSTRUCTION TO BE REMOVED
	DOOR TO REMAIN
	DOOR TO BE REMOVED

GENERAL NOTES - DEMOLITION PLANS

1. CARE SHALL BE EXERCISED TO PROTECT CONSTRUCTION INDICATED TO REMAIN AND ADJACENT AREAS FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AND REPLACING ANY ITEMS DAMAGED DURING CONSTRUCTION.
2. THE DEMOLITION DRAWINGS SHOWN REPRESENT A LAYOUT OF EXISTING FLOOR PLANS AND HAVE BEEN PREPARED TO OUTLINE THE GENERAL INTENT OF THE DEMOLITION WORK. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DRAWINGS AS WELL AS PROVIDING AN INVENTORY OF ITEMS WHERE REMOVAL IS REQUIRED TO ACCOMMODATE NEW WORK. ITEMS AND/OR DISCREPANCIES UNCOVERED DURING THE PRE BID SITE SURVEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID. NO COMPENSATION WILL BE GIVEN FOR THE REMOVAL OF OBVIOUS ITEMS THAT COULD HAVE BEEN UNCOVERED DURING THE PRE BID SITE SURVEY.
3. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF/HERSELF WITH ALL ASPECTS OF THE BUILDING FLOOR PLANS, CONSTRUCTION MATERIALS AND OF ALL LOOSE AND FIXED ITEMS NEEDED TO BE DEMOLISHED IN ORDER TO ACCOMMODATE NEW AND DEMOLITION WORK.
4. DEMOLITION WORK SHALL BE CUT CLEANLY TO ALLOW NEW WORK TO PLANE INTO AND/OR INTERSECT EXISTING WORK.
5. CLEAN, PATCH AND REPAIR DAMAGE AND TOUCH-UP PAINT AT EXISTING WALLS RESULTING FROM THE DEMOLITION OR REMOVAL OF EQUIPMENT, CASEWORK, ACOUSTICAL TILE GRID AND ANGLES, FURNISHINGS, WAINSCOT AND LIGHTING ATTACHED TO THE WALL.
6. REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE INDICATED ON THE DRAWINGS UNLESS OTHERWISE NOTED.
7. REFER TO ALL OTHER DISCIPLINES' DRAWINGS FOR MORE INFO.
8. PROVIDE TEMPORARY FLOORING PROTECTION AT CONSTRUCTION ACCESS ROUTES WITHIN THE EXISTING BUILDING LEADING TO THE RENOVATION AREA. CONTRACTOR SHALL COORDINATE EXTENT, LOCATION AND TYPE OF FLOORING PROTECTION WITH THE OWNER. CLEAN EXISTING FLOORING TO PRE-CONSTRUCTION CONDITION WHERE FLOORING PROTECTION IS REMOVED. FLOORING PROTECTION MAY BE WAIVED FOR EITHER VERY MINOR CONSTRUCTION OR DEMOLITION, OR FOR WORK IN UNOCCUPIED SPACES, WITH PRIOR WRITTEN APPROVAL.
9. THE OWNER HAS FIRST RIGHTS OF SALVAGE OF ALL DEMOLISHED ITEMS INCLUDING, BUT NOT LIMITED TO FIXTURES, EQUIPMENT AND BUILDING MATERIALS, ETC. REMOVED AS PART OF THE DEMOLITION. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
10. PRIOR TO START OF DEMOLITION, SECURE FROM THE OWNER A LIST OF EXISTING BUILDING COMPONENTS TO BE SALVAGED AND DELIVERED TO THE OWNER. EXERCISE SUFFICIENT CARE IN SALVAGE OPERATIONS SUCH THAT SALVAGED COMPONENTS ARE DELIVERED TO THE OWNER IN THEIR EXISTING CONDITION.
11. PROVIDE SHORING, BRACING AND SUPPORTS ADEQUATE TO MAINTAIN STRUCTURAL INTEGRITY OF THE EXISTING PARTITIONS, CEILINGS, AND RAISED FLOOR SYSTEMS DURING DEMOLITION.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING CONCRETE SLAB/WALLS WHILE ANY SAW-CUTTING OR CORE-DRILLING IS PERFORMED. IF CONDITIONS THAT WILL COMPROMISE STRUCTURAL INTEGRITY ARE FOUND TO BE PRESENT WORK SHALL CEASE AND OWNER MUST BE NOTIFIED IMMEDIATELY.
13. REPLACE CARPET AND BASE THROUGHOUT FACILITY

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CODED NOTE LEGEND

(2) REMOVE EXISTING LIGHT FIXTURES TO BE REPLACED

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 02 - DEMO RCP

REGISTERED ARCHITECT BRIAN K. NOLAN 28317 STATE OF TEXAS

09.19.2025

R22301.01

AD103

100% CD'S SUBMITTAL

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PRINT DATE: 12/1/2025 2:12:04 PM
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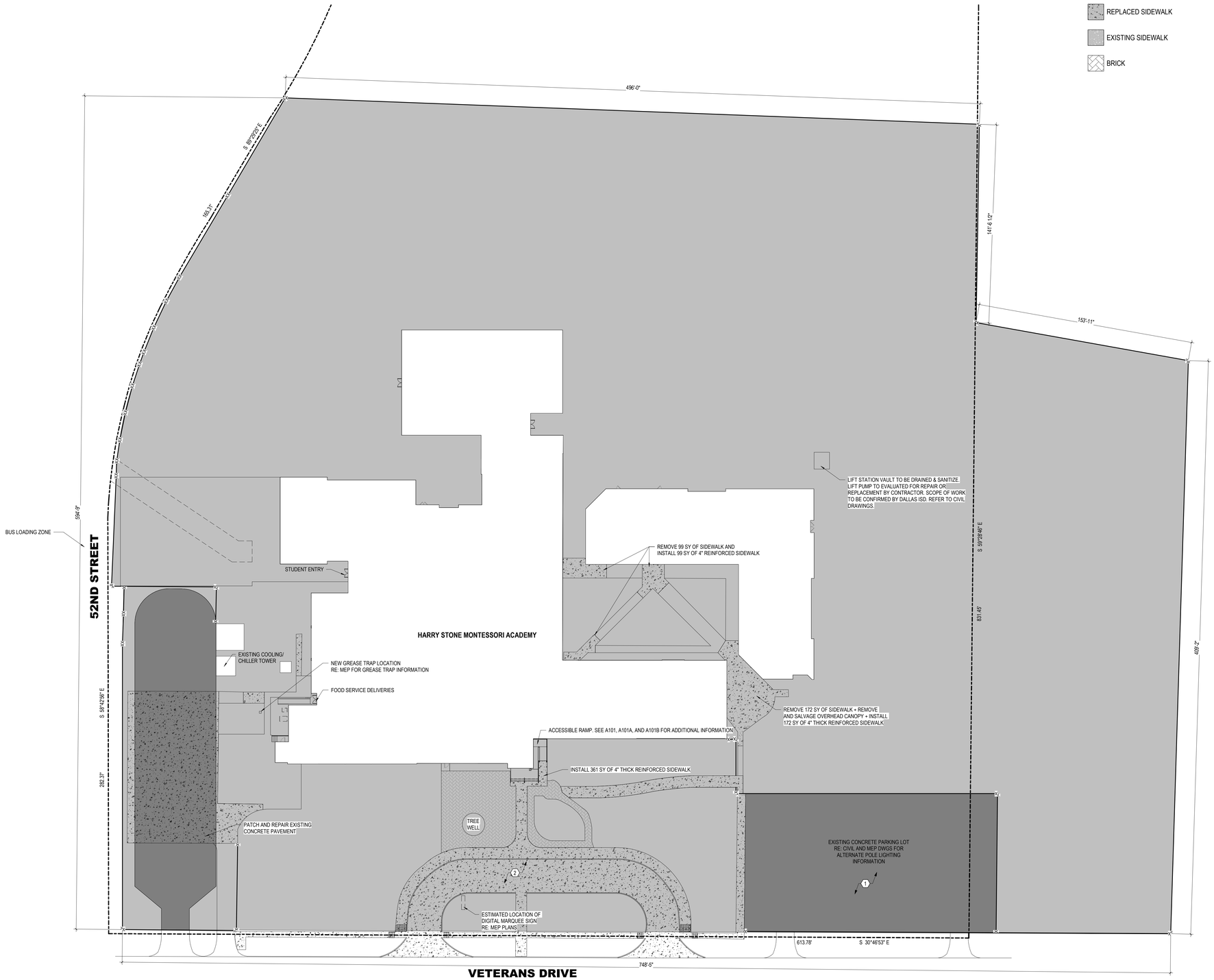

1 SITE PLAN
1" = 30'-0"

KEY PLAN

#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - SITE PLANS

1. ALL EXTERIORS WALLS AND SURFACES TO BE CLEANED USING DISD APPROVED CLEANING METHOD AND PREPARED TO RECEIVE NEW PAINT.
2. G.C. TO FIELD VERIFY LOCATIONS OF PAVEMENT IN NEED OF REPLACEMENT / REPAIR.
3. ALL EXTERIOR WALLS ARE EXISTING TO REMAIN.
4. EXISTING TO REMAIN CONDITIONS ARE TO BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR TO PATCH AND REPAIR AS NECESSARY TO MATCH ADJACENT.
5. REPLACE ALL GUTTERS AND DOWNSPOUTS WITH NEW.
6. REMOVE SEALANT JOINTS AND PROVIDE NEW SEALANT.
7. CLEAN, RESEAL, AND RE-STRIPE ENTIRE ASPHALT.
8. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING FURNITURE AND EQUIPMENT FIXTURES.
9. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION
10. SITE DEMOLITION IS SHOWN HERE TO REPRESENT APPROXIMATE LOCATIONS AND EXTENTS. SEE CIVIL DRAWINGS FOR FINAL INFORMATION.

CODED NOTE LEGEND

1. REPLACE EXTERIOR LIGHTS WITH LED LIGHTING
2. REMOVE AND REPLACE CONCRETE PAVEMENT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ARCHITECTURAL SITE PLAN

REGISTERED ARCHITECT BRIAN ABEL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A001
100% CD'S SUBMITTAL

REVIT VERSION: 2023
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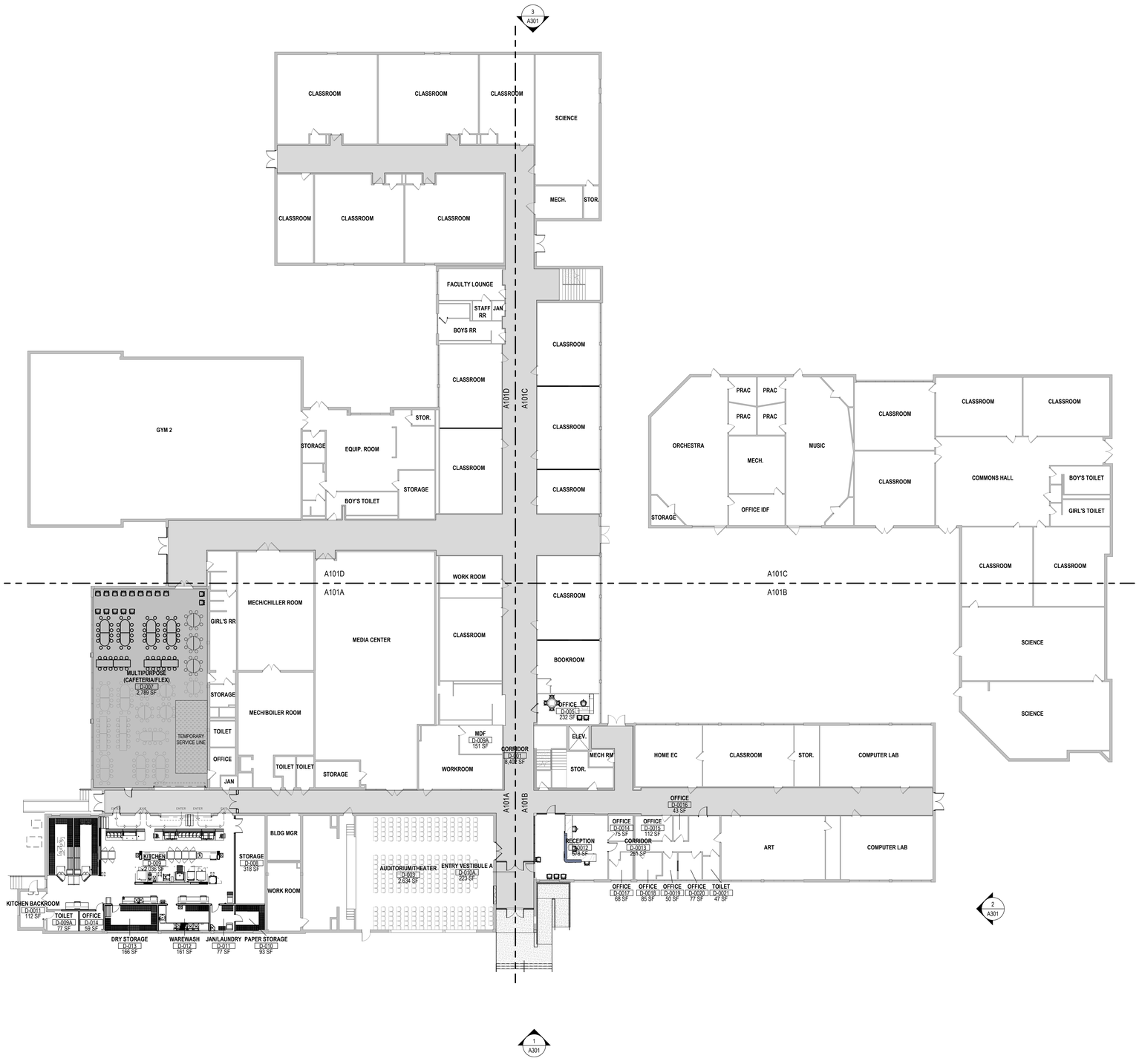
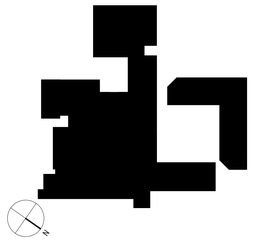


1 **PLAN** OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
3. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
4. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
5. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).
6. REPLACE CARPET AND BASE THROUGHOUT FACILITY
7. FINAL COURT STRIPPING IN MULTIPURPOSE TO BE COORDINATED WITH SCHOOL PRINCIPAL AND DISTRICT. SEE A901 FOR FINISHES.

CODED NOTE LEGEND

1 PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - OVERALL

REGISTERED ARCHITECT BRIAN J. ISBELL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A101
100% CD'S SUBMITTAL

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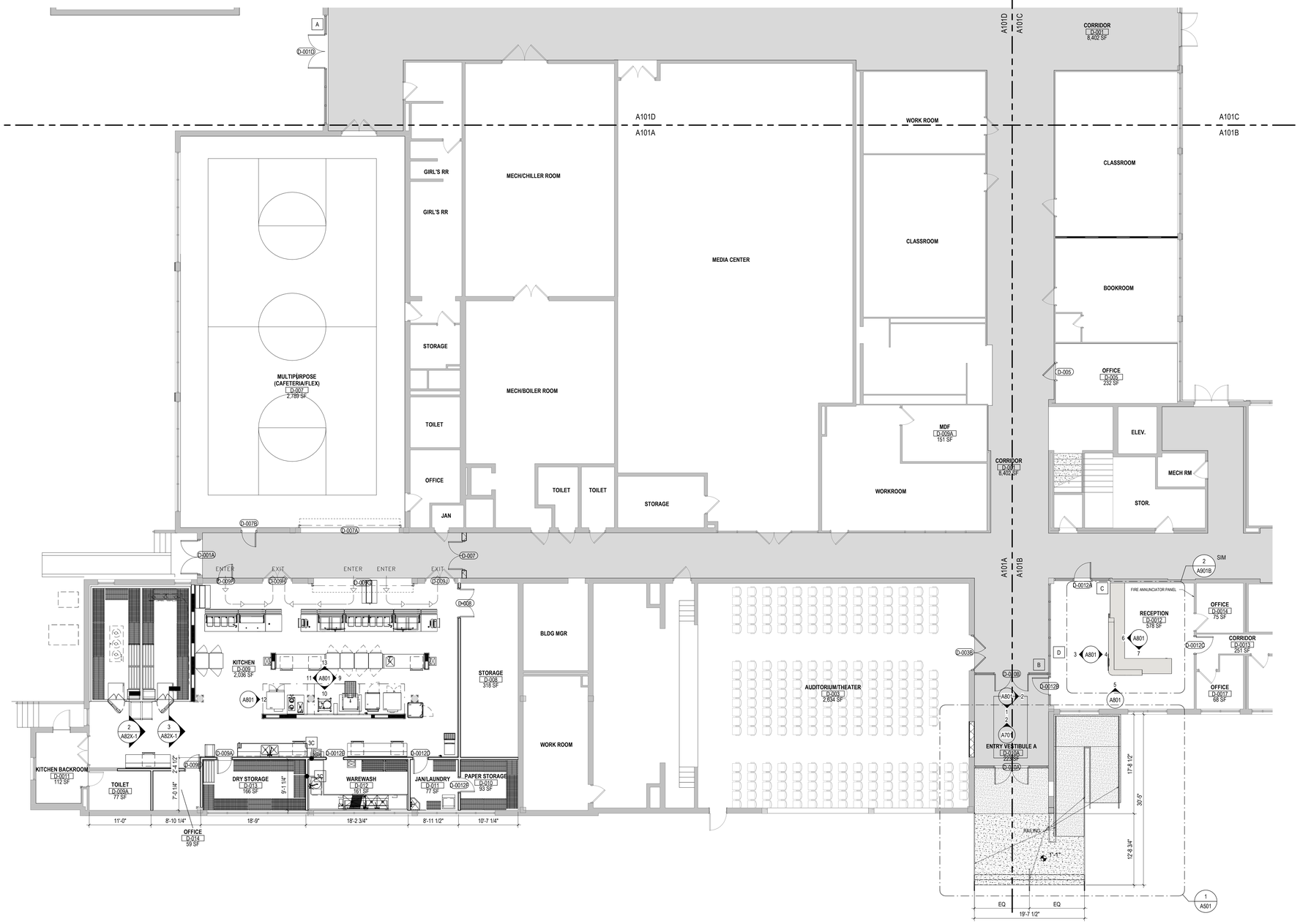
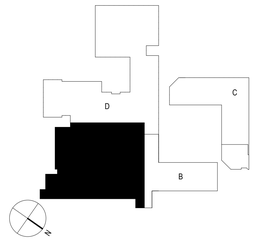


KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
3. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
4. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
5. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).
6. REPLACE CARPET AND BASE THROUGHOUT FACILITY
7. FINAL COURT STRIPPING IN MULTIPURPOSE TO BE COORDINATED WITH SCHOOL PRINCIPAL AND DISTRICT. SEE A901 FOR FINISHES.

CODED NOTE LEGEND

1 PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - AREA 'A'

12.02.2025

R22301.01

A101A

100% CD'S SUBMITTAL

12/02/2025

1 PLAN LEVEL 01 - FLOOR PLAN - AREA 'A'
1/8" = 1'-0"

PLAN NORTH

REVIT VERSION: 2023
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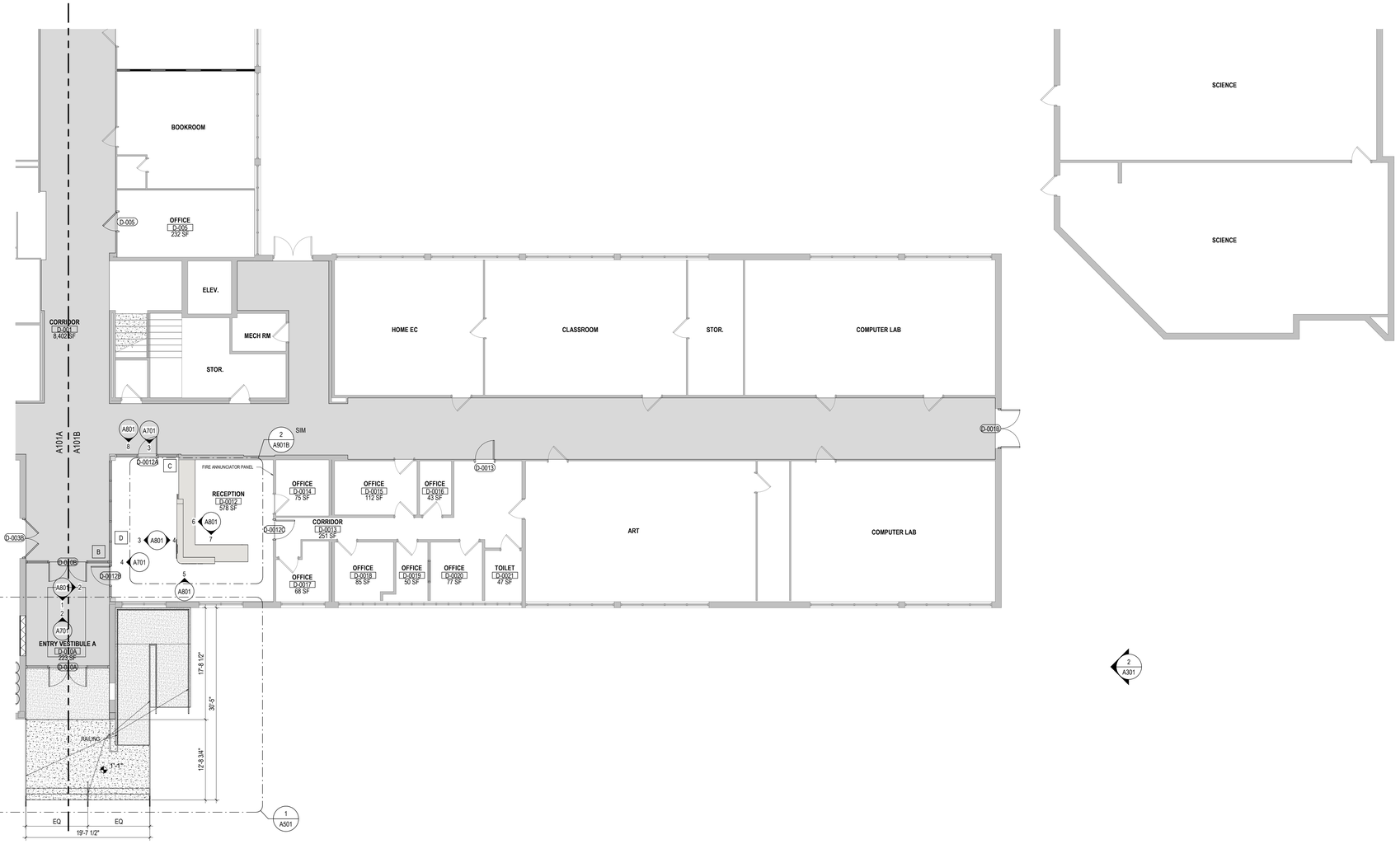
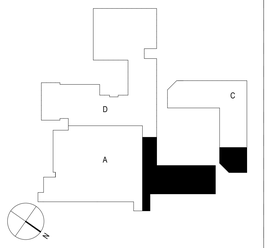


KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
3. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
4. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
5. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W/ W.W.F., UNLESS NOTED OTHERWISE).
6. REPLACE CARPET AND BASE THROUGHOUT FACILITY
7. FINAL COURT STRIPPING IN MULTIPURPOSE TO BE COORDINATED WITH SCHOOL PRINCIPAL AND DISTRICT. SEE A901 FOR FINISHES.

CODED NOTE LEGEND

KEY VALUE | KEYNOTE TEXT

1 PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

1 **PLAN** LEVEL 01 - FLOOR PLAN - AREA 'B'
1/8" = 1'-0"

PLAN NORTH

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - AREA 'B'

REGISTERED ARCHITECT BRIAN ABEL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A101B
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:18:57 AM
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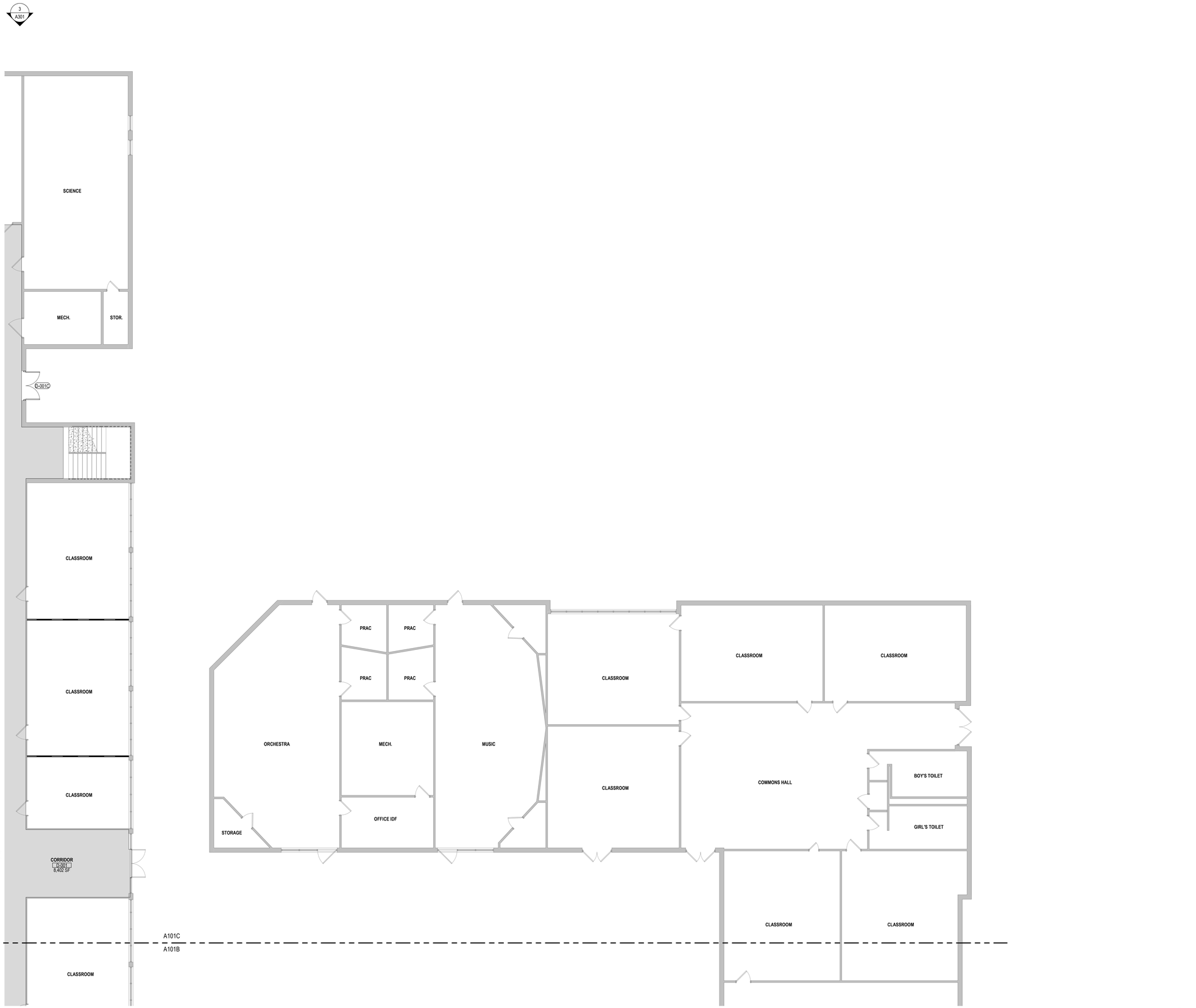
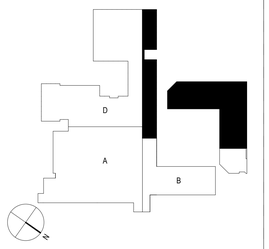


1 **PLAN** LEVEL 01 - FLOOR PLAN - AREA 'C'
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

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2. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
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6. REPLACE CARPET AND BASE THROUGHOUT FACILITY
7. FINAL COURT STRIPPING IN MULTIPURPOSE TO BE COORDINATED WITH SCHOOL PRINCIPAL AND DISTRICT. SEE A901 FOR FINISHES.

CODED NOTE LEGEND

KEY VALUE — KEYNOTE TEXT

1 PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - AREA 'C'

REGISTERED ARCHITECT BRIAN J. NOLAN 21976 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A101C
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:18:58 AM
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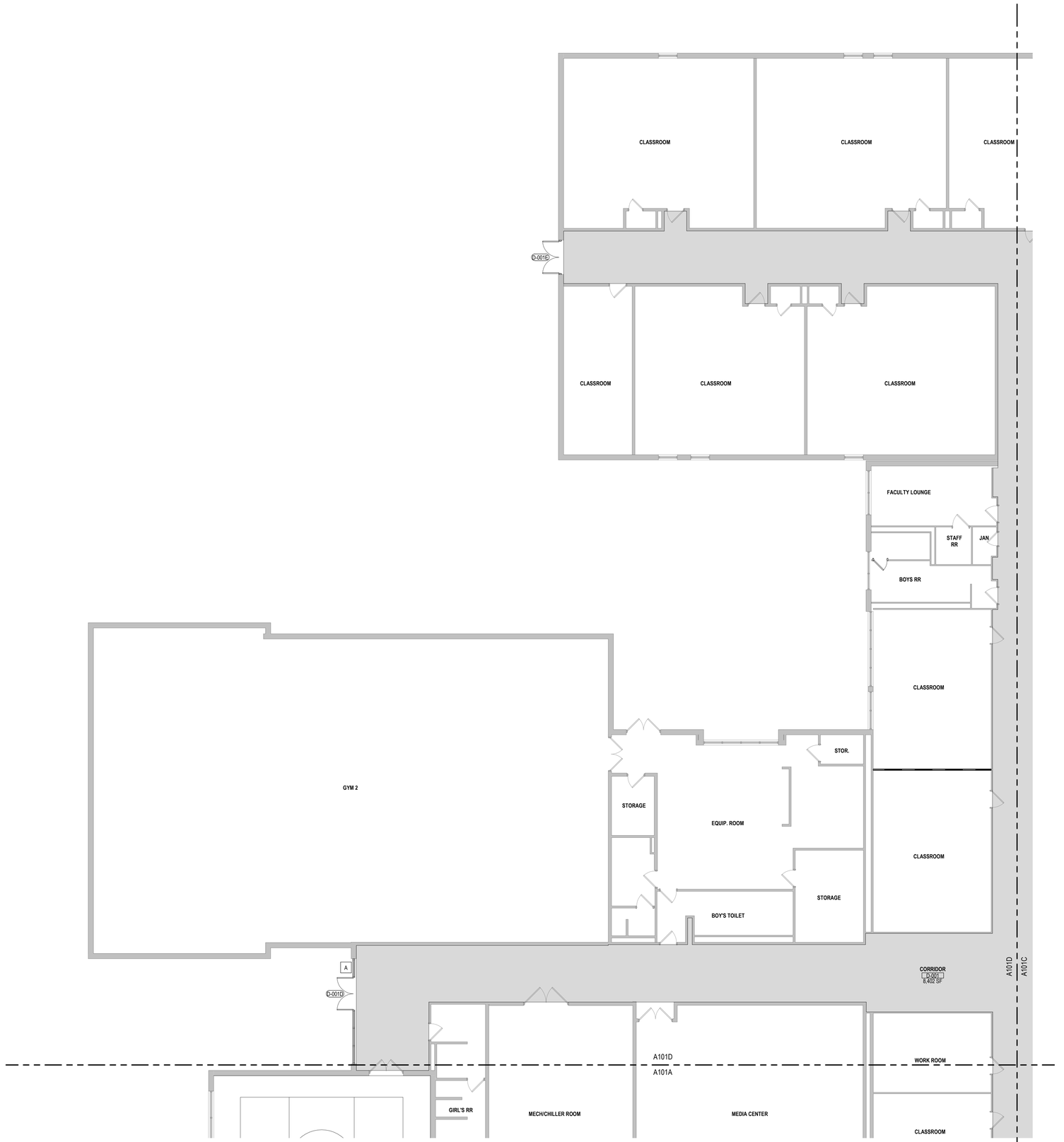
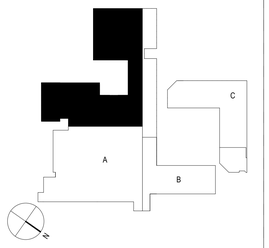


1 **PLAN** LEVEL 01 - FLOOR PLAN - AREA 'D'
1/8" = 1'-0"

PLAN NORTH

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:18:59 AM
FILE INFO: A:\Active Docs\R22301.01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

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CODED NOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

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- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FLOOR PLAN - AREA 'D'

12/02/2025

12.02.2025
R22301.01
A101D
100% CD'S SUBMITTAL

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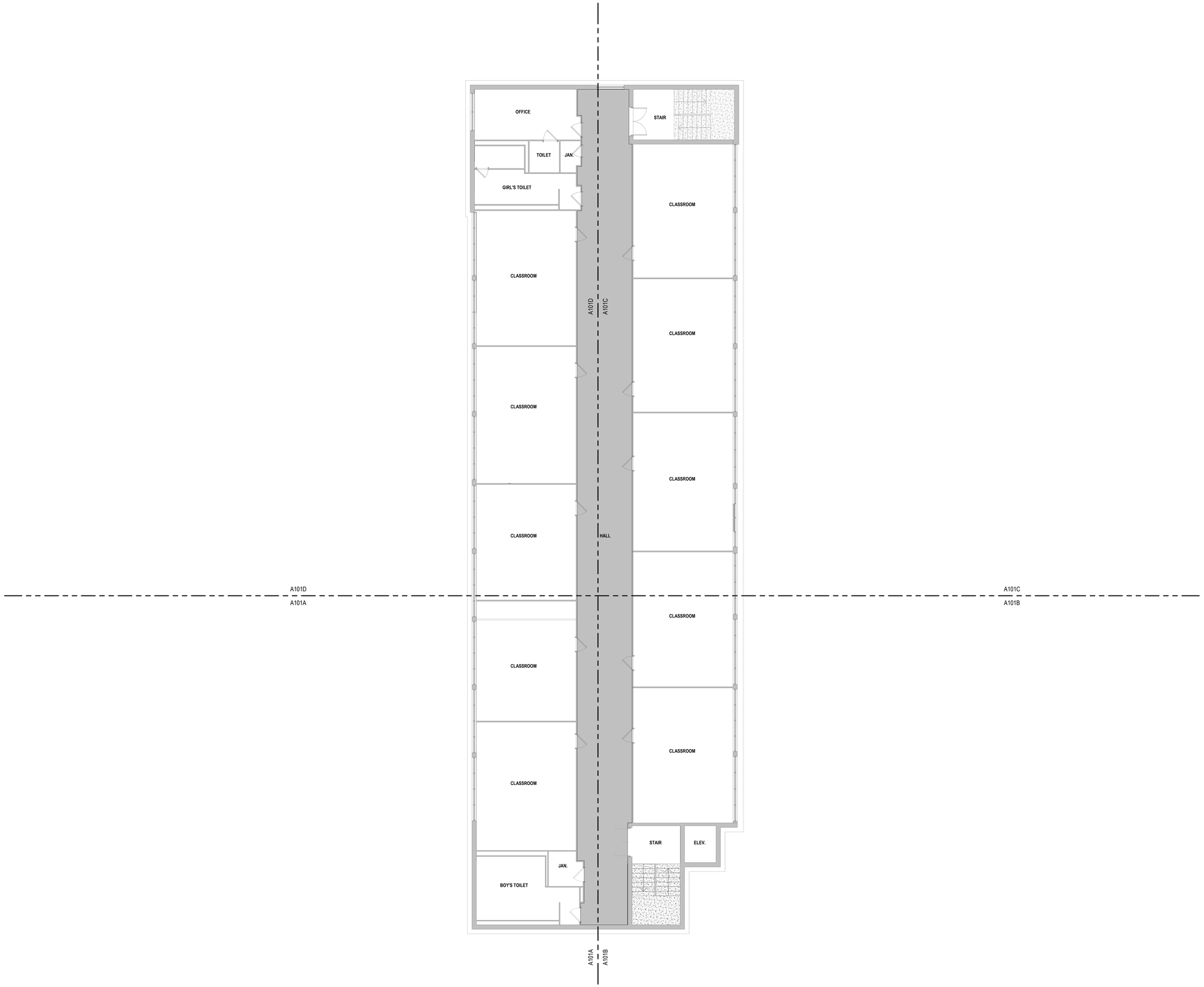
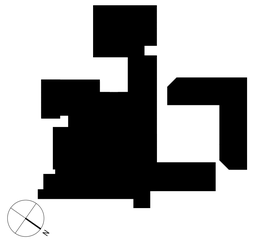


1 **PLAN** OVERALL SECOND FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

FLOOR PLAN GENERAL NOTES

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CODED NOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PREPARE EXISTING FLOORING TO RECEIVE NEW FLOORING

RATED WALL LEGEND

- NON-RATED SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 2 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 3 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 4 HOUR SMOKE RESISTIVE PARTITION TO DECK
- 1 HOUR FIRE RATED PARTITION TO DECK
- 2 HOUR FIRE RATED PARTITION TO DECK
- 3 HOUR FIRE RATED PARTITION TO DECK
- 4 HOUR FIRE RATED PARTITION TO DECK

KEYNOTE LEGEND

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 02 - FLOOR PLAN - OVERALL

REGISTERED ARCHITECT BRIAN T. ISBELL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A102
100% CD'S SUBMITTAL

REVIT VERSION: 2023
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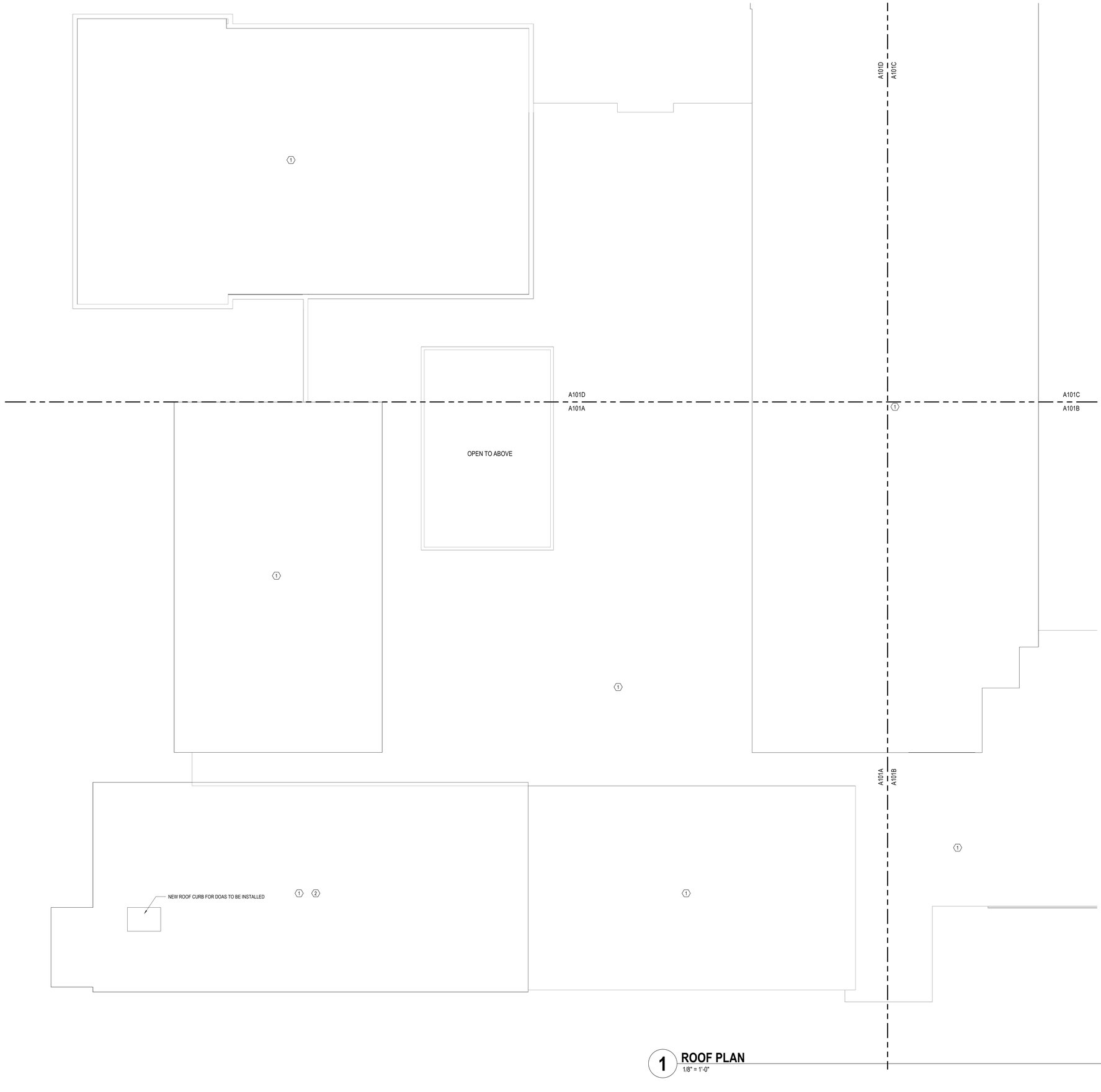
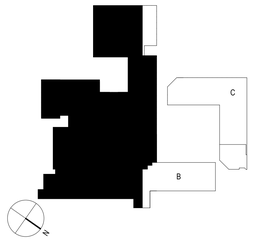


1 ROOF PLAN
1/8" = 1'-0"

KEY PLAN



#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT

ROOF PLAN GENERAL NOTES

1. MECHANICAL/HVAC IMPROVEMENTS INCLUDE NEW SPLIT SYSTEM, FAN COIL AND ROOFTOP UNITS, REPLACING WATER PUMPS, HEATING WATER BOILER, AND PROVIDING CONTROLS ON ALL PUMPS

KEYNOTE LEGEND

CODED NOTE LEGEND

1 EXISTING ROOF TO REMAIN.

2 PATCH EXISTING ROOF AT NEW/REPLACED EQUIPMENT. COORDINATE LOCATION WITH MECHANICAL AND STRUCTURAL DRAWINGS.

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ROOF PLAN - OVERALL

REGISTERED ARCHITECT BRIAN P. NOLAN 28916 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A103
100% CD'S SUBMITTAL

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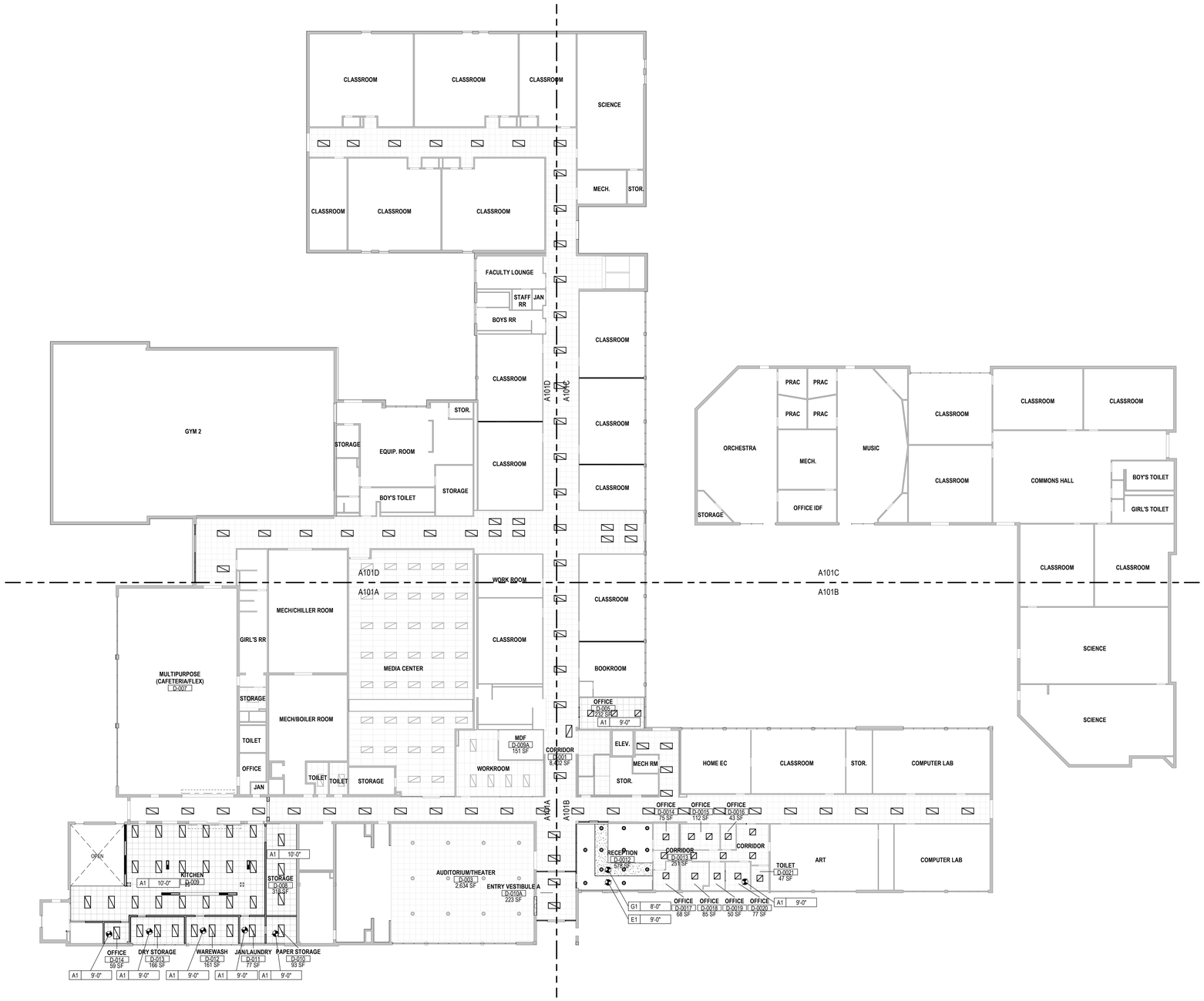


RCP GENERAL NOTES

1. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
2. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
3. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).
4. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
5. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.
6. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).
7. ALL GYPSUM SOFFITS IN FOOD SERVICE AREAS TO BE PAINTED WITH A SATIN FINISH.
8. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.
9. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
10. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
11. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES
2. OPEN TO ABOVE

RCP LEGEND

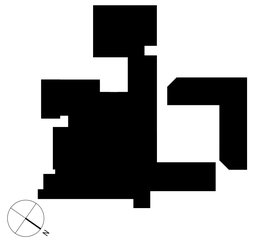
- A1 ACOUSTIC CEILING TYPE 1: 2'x2' LAY-IN CEILING
- A2 ACOUSTIC CEILING TYPE 2: 2'x4' LAY-IN CEILING
- E1 EXPOSED STRUCTURE ABOVE
- G1 GYPSUM BOARD CEILING OR SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT
- LINEAR COVE LIGHT
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- SPEAKER
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

1 **RCP** OVERALL FIRST FLOOR RCP
1/16" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT

CEILING TYPE SCHEDULE

TYPE	DESCRIPTION
A1	
A2	
E1	
G1	

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - RCP - OVERALL

REGISTERED ARCHITECT BRIAN HAGEN 29917 STATE OF TEXAS
12/02/2025

12.02.2025

R22301.01

A201

100% CD'S SUBMITTAL

REVIT VERSION: 2023
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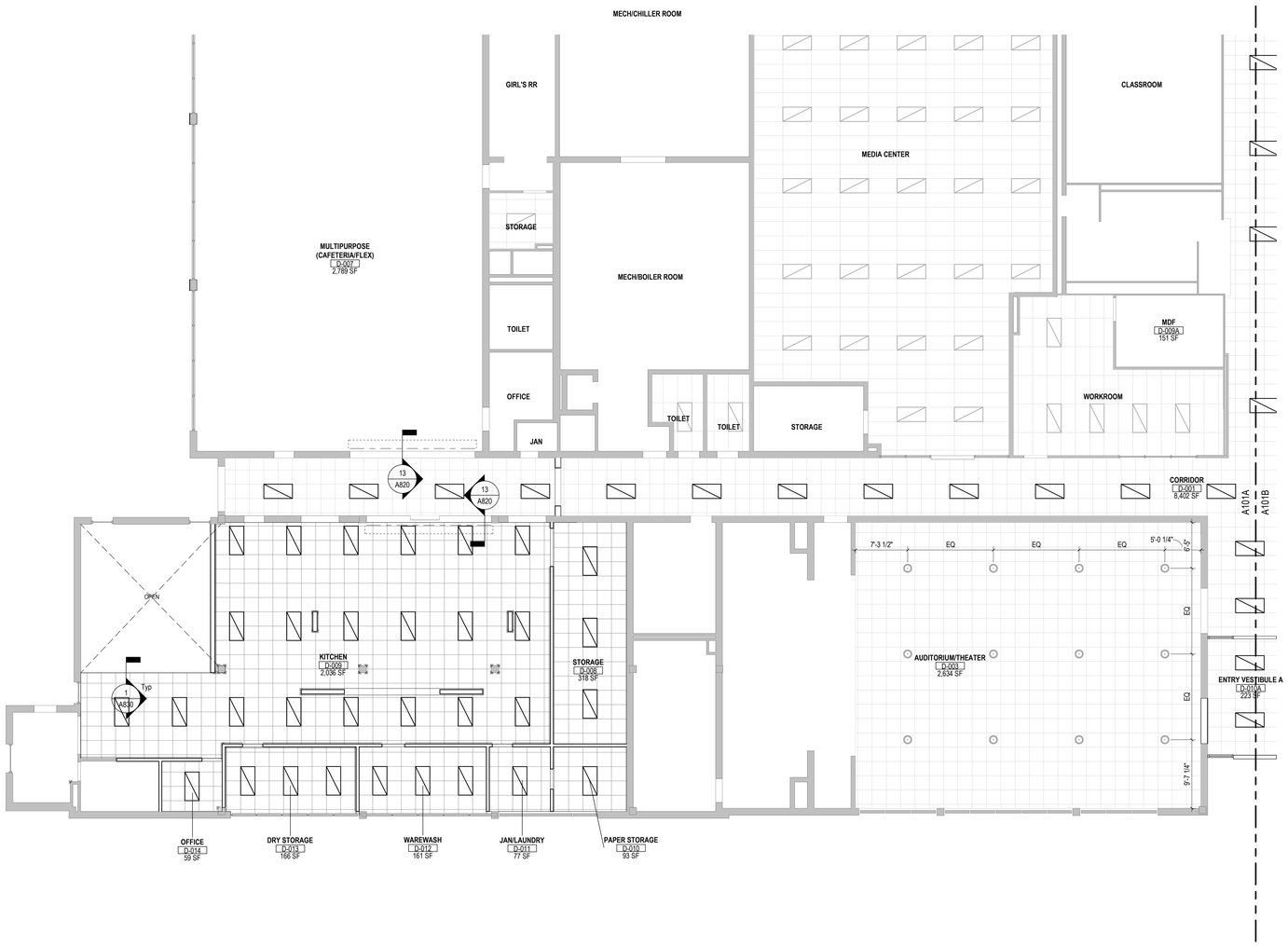

1 **RCP** LEVEL 01 - RCP - AREA 'A'
1/8" = 1'-0"

PLAN NORTH

RCP GENERAL NOTES

1. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
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CODED NOTE LEGEND

1 ALIGN FEATURES
2 OPEN TO ABOVE

RCP LEGEND

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- G1 GYPSUM BOARD CEILING OR SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
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- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
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- SURFACE MOUNTED LIGHT
- LINEAR COVE LIGHT
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
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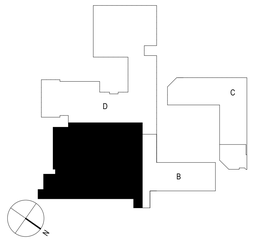
KEY PLAN



#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - RCP - AREA 'A'

12/02/2025

12.02.2025
R22301.01
A201A
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:19:06 AM
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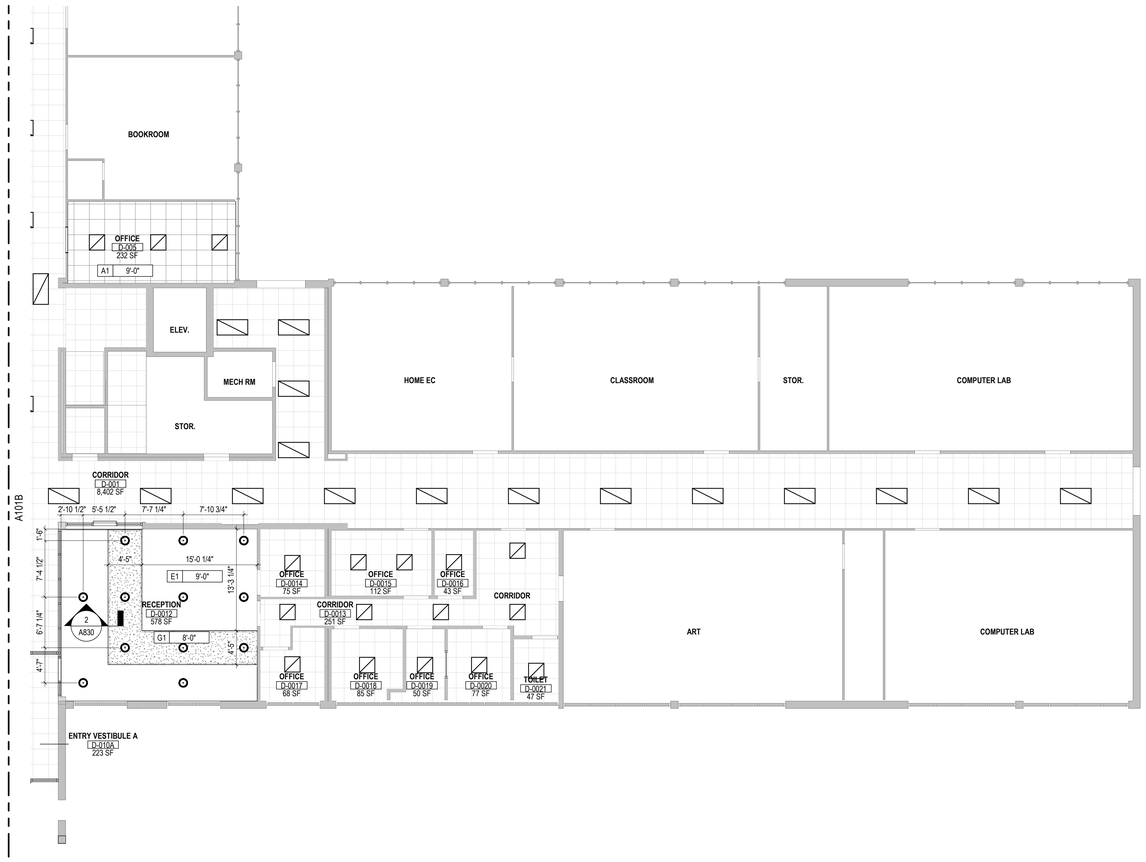


RCP GENERAL NOTES

1. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
2. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
3. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).
4. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
5. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL , UNLESS NOTED OTHERWISE OR DIMENSIONED.
6. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).
7. ALL GYPSUM SOFFITS IN FOOD SERVICE AREAS TO BE PAINTED WITH A SATIN FINISH.
8. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.
9. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
10. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
11. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES
2. OPEN TO ABOVE

RCP LEGEND

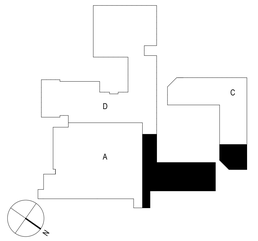
- A1 ACOUSTIC CEILING TYPE 1: 2'x2' LAY-IN CEILING
- A2 ACOUSTIC CEILING TYPE 2: 2'x4' LAY-IN CEILING
- E1 EXPOSED STRUCTURE ABOVE
- G1 GYPSUM BOARD CEILING OR SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR ○ OR □ RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT
- LINEAR COVE LIGHT
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- SPEAKER
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

1 **RCP** LEVEL 01 - RCP - AREA 'B'
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 01 - RCP - AREA 'B'

REGISTERED ARCHITECT BRIAN ABEL 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A201B
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:19:07 AM
FILE INFO: J:\Active\Docs\R22301.01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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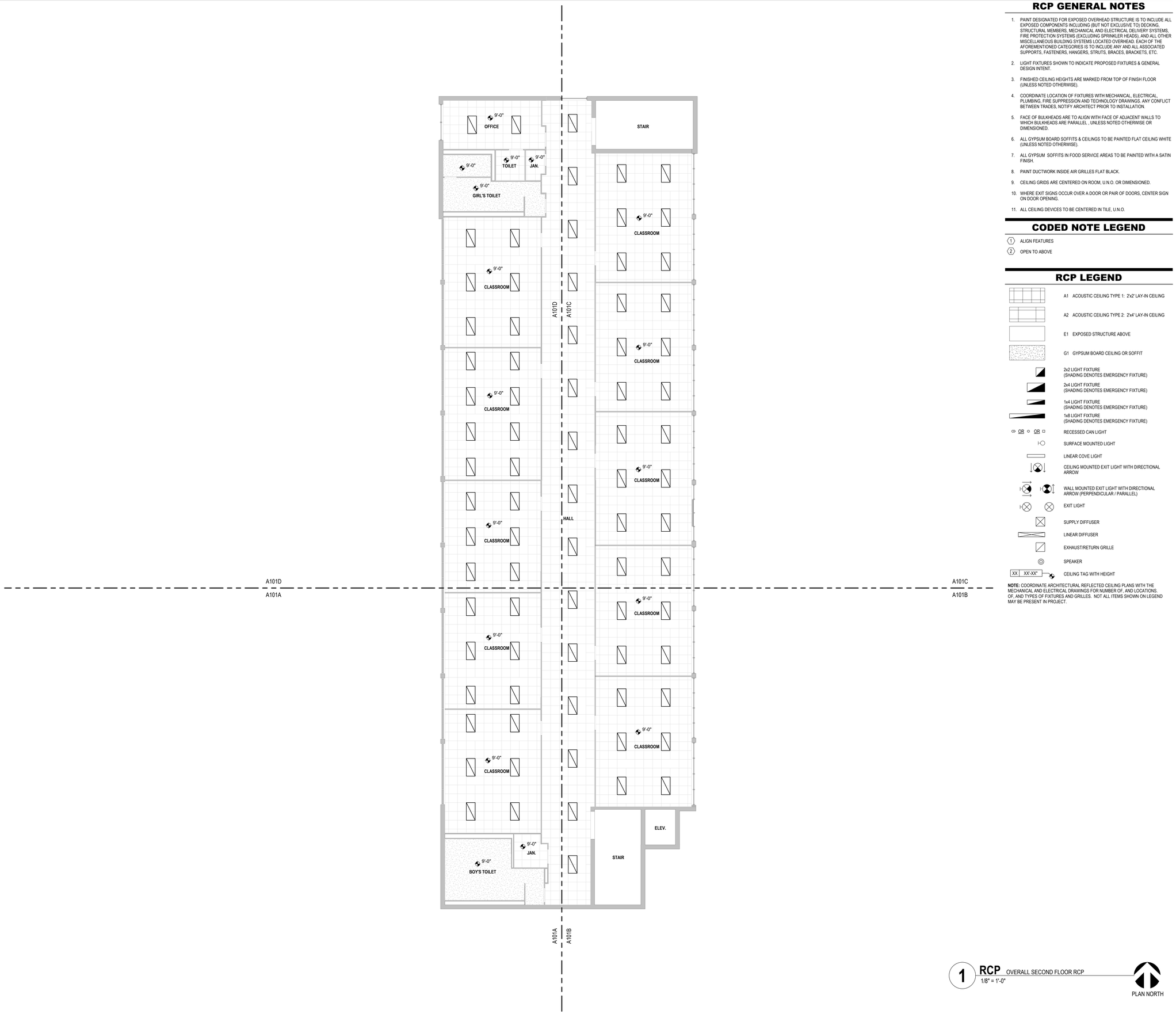

RCP GENERAL NOTES

1. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
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11. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1 ALIGN FEATURES

2 OPEN TO ABOVE

RCP LEGEND

- A1 ACOUSTIC CEILING TYPE 1: 2'x2' LAY-IN CEILING
- A2 ACOUSTIC CEILING TYPE 2: 2'x4' LAY-IN CEILING
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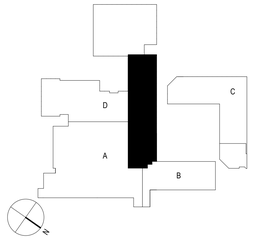
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- OR OR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT
- LINEAR COVE LIGHT
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- SPEAKER
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

1 **RCP** OVERALL SECOND FLOOR RCP
1/8" = 1'-0"

PLAN NORTH

KEY PLAN



#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 02 - RCP - OVERALL

REGISTERED ARCHITECT BRIAN TIBBS 28912 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A202
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:19:08 AM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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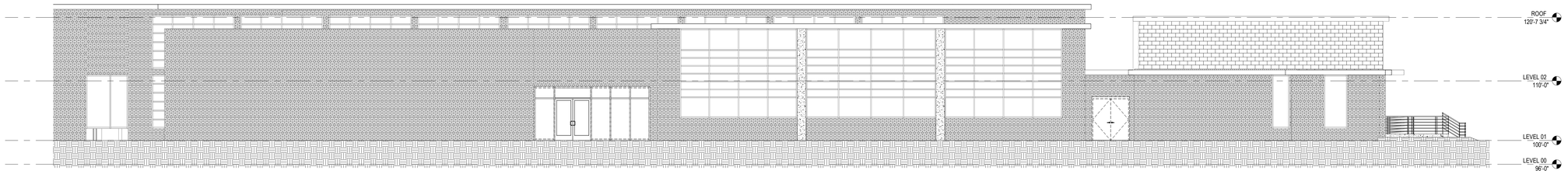
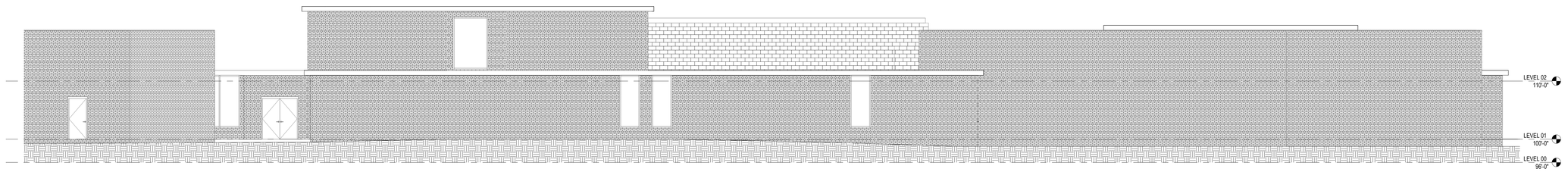
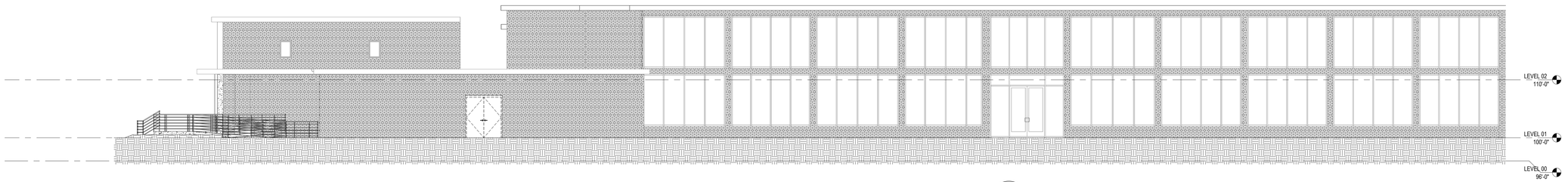


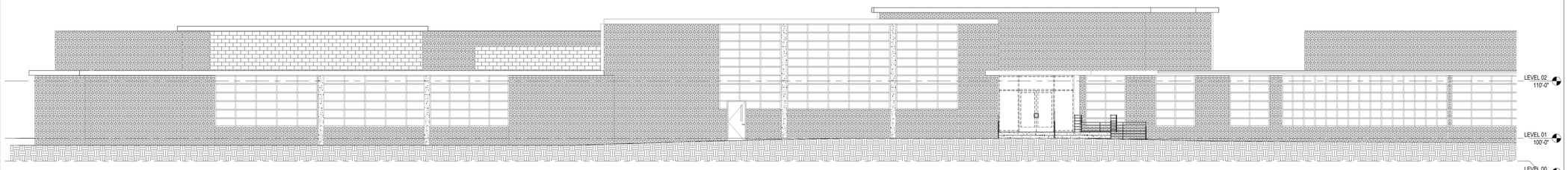
4 ELEVATION WEST
1/8" = 1'-0" REF: 1 / A101



3 ELEVATION NORTH
1/8" = 1'-0" REF: 1 / A101



2 ELEVATION EAST
1/8" = 1'-0" REF: 1 / A101



1 ELEVATION SOUTH
1/8" = 1'-0" REF: 1 / A101

KEY PLAN

#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - EXTERIOR ELEVATIONS

1. PAINT BRICK, COLOR TBD

EXTERIOR GLAZING TYPES

- **IG-1** EXTERIOR INSULATED GLAZING
- **IG-1A** EXTERIOR INSULATED GLAZING (TEMPERED)
- **IG-2** EXTERIOR INSULATED GLAZING (TRANSLUCENT)
- **IG-2A** EXTERIOR INSULATED GLAZING (TRANSLUCENT TEMPERED)
- **IG-3** EXTERIOR INSULATED GLAZING (SPANDREL - LIGHT GRAY)
- **IG-4** EXTERIOR INSULATED GLAZING (SPANDREL - MEDIUM GRAY)
- **IG-5** EXTERIOR INSULATED GLAZING (SPANDREL - DARK GRAY)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

EXTERIOR ELEVATIONS - OVERALL

REGISTERED ARCHITECT BRIAN TIEDT 28917 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A301
100% CD'S SUBMITTAL

REVIT VERSION: 2023
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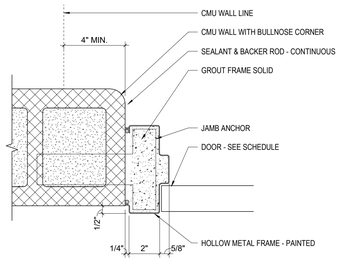
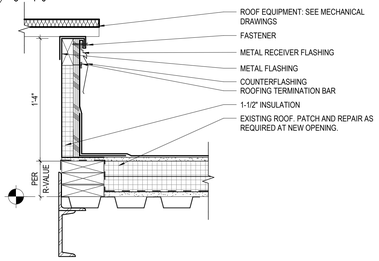
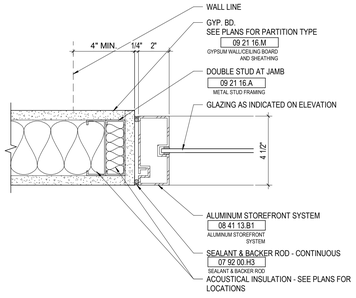


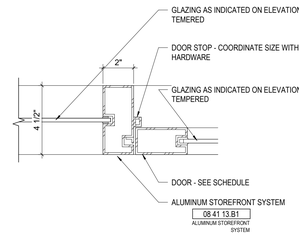
16 DETAIL DOOR JAMB @ CMU WALL
3" = 1'-0"

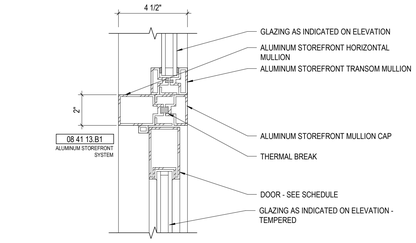




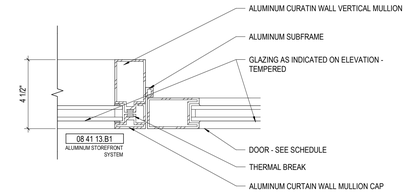
A70 DI-SI - J 9 SIDELITE

11 DETAIL ALUMINUM SIDELITE JAMB
3" = 1'-0"

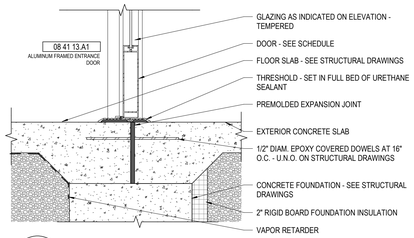




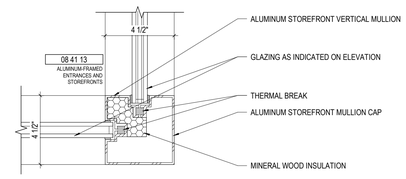
6 DETAIL STOREFRONT TRANSOM
3" = 1'-0" REF: 1 / A701 A70 DE-SE-T 8 DOOR HEAD



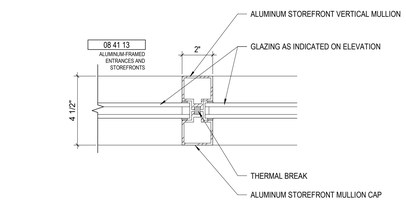
5 DETAIL CURTAIN WALL DOOR JAMB
3" = 1'-0" REF: 1 / A701 A70 DE-CW-J 8 DOOR



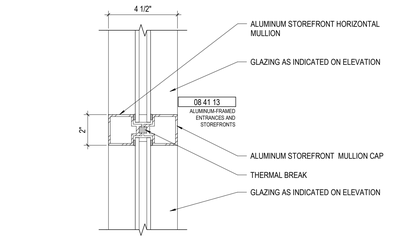
4 DETAIL CURTAIN WALL DOOR SILL - CONC. FOUND.
1 1/2" = 1'-0" REF: 1 / A701 A70 DE-CW-S 3 TYPICAL EXT INSUL



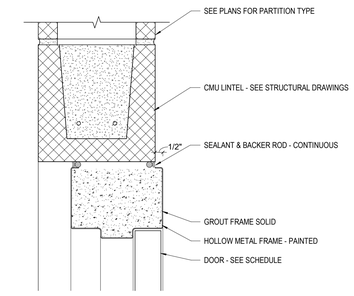
3 DETAIL STOREFRONT CORNER MULLION
3" = 1'-0" A70 DE-SE-J 8 OUT CORNER MULLION SQUARE



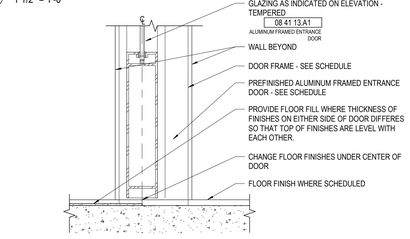
2 DETAIL STOREFRONT VERTICAL MULLION
3" = 1'-0" REF: 1 / A701 A70 DE-SE-J 8 VERT MULLION



1 DETAIL STOREFRONT HORIZONTAL MULLION
3" = 1'-0" REF: 1 / A701 A70 DE-SE-H 8 HORIZ MULLION

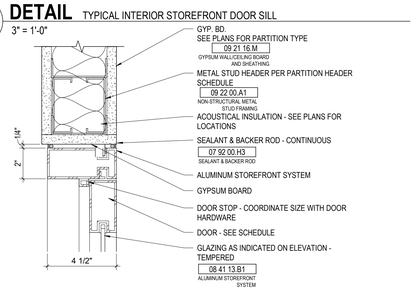


17 DETAIL DOOR HEAD @ CMU WALL
3" = 1'-0"



A70 DI-SE - S-SI INT TYP

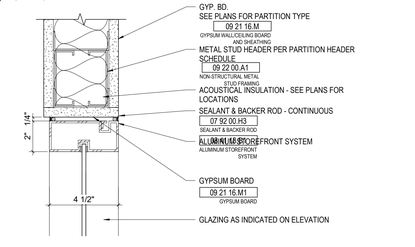
15 DETAIL MECHANICAL CURB
1 1/2" = 1'-0"



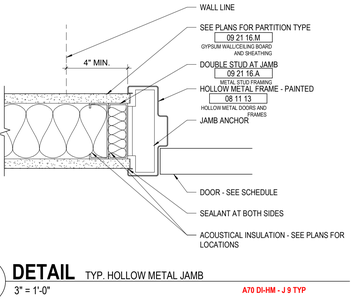
14 DETAIL TYPICAL INTERIOR STOREFRONT DOOR SILL
3" = 1'-0"

A70 DI-SI - H 9 TYP

13 DETAIL TYP. ALUMINUM HEAD DETAIL
3" = 1'-0"



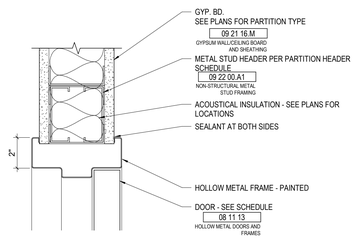
12 DETAIL INT. STOREFRONT SIDELITE HEAD
3" = 1'-0" REF: 1 / A701 A70 DI-SI - H 9 SIDELITE



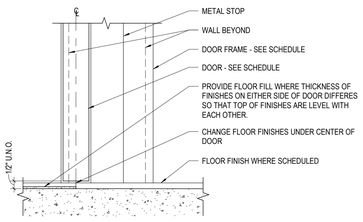
A70 DI-SI - J 8 W/ SIDELITE

10 DETAIL ALUMINUM JAMB W/ SIDELITE
3" = 1'-0"

9 DETAIL TYP. HOLLOW METAL JAMB
3" = 1'-0" A70 DI-HM - J 9 TYP



8 DETAIL TYP. HOLLOW METAL HEAD DETAIL
3" = 1'-0" A70 DI-HM - H 9 TYP



7 DETAIL TYPICAL INTERIOR DOOR SILL
3" = 1'-0" A70 DI-HM - S INT TYP

GENERAL NOTES

1. X

KEY PLAN

KEYNOTE LEGEND

#	DATE	CHANGE DESCRIPTION

KEY VALUE	KEYNOTE TEXT
07 92 00.H3	SEALANT & BACKER ROD
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 41 13.A1	ALUMINUM FRAMED ENTRANCE DOOR
08 41 13.B1	ALUMINUM STOREFRONT SYSTEM
09 21 16.A	METAL STUD FRAMING
09 21 16.M	GYPSUM WALL/CEILING BOARD AND SHEATHING
09 21 16.M1	GYPSUM BOARD
09 22 00.A1	NON-STRUCTURAL METAL STUD FRAMING

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

EXTERIOR & INTERIOR DETAILS

REGISTERED ARCHITECT BRIAN TIBBS 28912 STATE OF TEXAS
12/02/2025

12.02.2025

R22301.01

A440

100% CD'S SUBMITTAL

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PRINT DATE: 12/2/2025 9:27:18 AM
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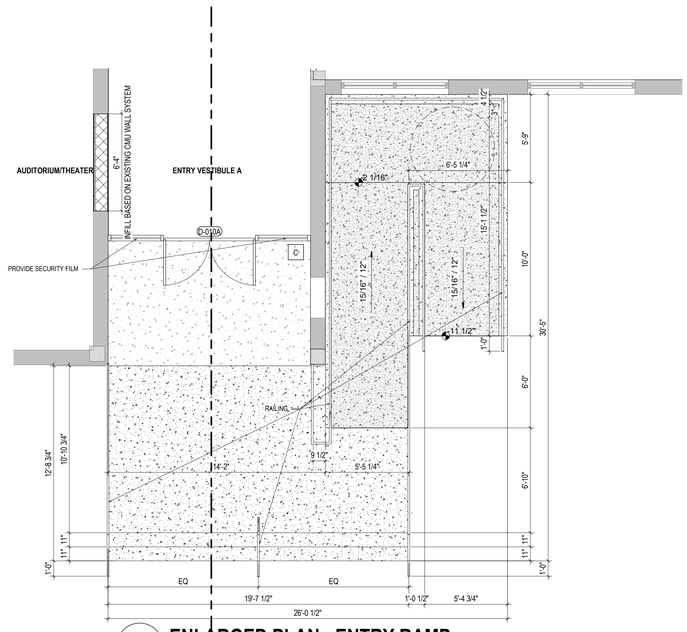

1 ENLARGED PLAN - ENTRY RAMP

1/4" = 1'-0"

KEY PLAN

#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - ENLARGED PLANS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ENLARGED PLANS

REGISTERED ARCHITECT BRIAN TIBBS 28912 STATE OF TEXAS

09.19.2025

R22301.01

A501

100% CD'S SUBMITTAL

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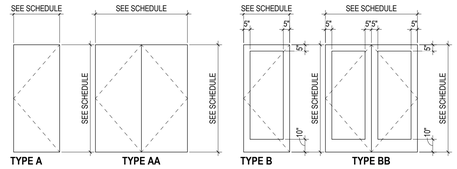
DOOR SCHEDULE

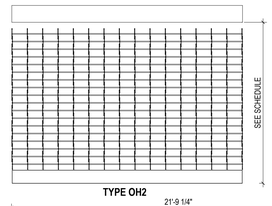
DOOR						FRAME		FIRE		CARD	DETAILS - SHEET AX.XX			
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV	RATING	HDW SET	READER	HEAD	JAMB	SILL	REMARKS
D-001A	CORRIDOR	6'-0"	7'-0"	HM	AA	HM	4		DD-09	Yes	06/A440	05/A440	04/A440	CARD READER
D-001B	CORRIDOR	6'-0"	7'-0"	HM	AA	HM	4		DD-09	Yes	REPLACE EXIST.	REPLACE EXIST.	REPLACE EXIST.	CARD READER
D-001C	CORRIDOR	6'-0"	7'-0"	HM	AA	HM	4		DD-09	No	REPLACE EXIST.	REPLACE EXIST.	REPLACE EXIST.	
D-001D	CORRIDOR	6'-0"	7'-0"	GL	BB	AL	3		DD-09	Yes	06/A440	05/A440	04/A440	CARD READER. TEMPERED GLASS.
D-005	OFFICE	3'-0"	7'-0"	HM	D	HM	2	1 HR	DD-05	Yes	08/A440	05/A440	04/A440	CARD READER
D-007	CORRIDOR	5'-0"	7'-0"	HM	AA	HM	4	1 HR	DD-05		08/A440	05/A440	04/A440	
D-007A	MULTIPURPOSE (CAFETERIA/FLEX)	17'-6"	9'-0"		OH2			1 HR			13/A820	14/A820		FIRE SHUTTER
D-007B	MULTIPURPOSE (CAFETERIA/FLEX)	2'-6"	7'-0"	HM	A	HM	2	1 HR			13/A820	14/A820		
D-008	KITCHEN	5'-0"	7'-0"	HM	AA	HM	4				08/A440	09/A440	07/A440	
D-009A	KITCHEN	2'-6"	7'-0"	HM	A	HM	2	1 HR	DD-01	No	08/A440	09/A440	07/A440	
D-009B	OFFICE	2'-6"	7'-0"	HM	A	HM	2	1 HR	DD-01	No	08/A440	09/A440	07/A440	
D-009F	KITCHEN	2'-6"	7'-0"	HM	A	HM	2	1 HR			08/A440	09/A440	07/A440	
D-009G	KITCHEN	17'-6"	9'-0"		OH2			1 HR						FIRE SHUTTER
D-010A	ENTRY VESTIBULE A	6'-0"	7'-2 3/8"	GL	BB	AL	3		DD-08	Yes				CARD READER
D-010B	ENTRY VESTIBULE A	6'-0"	7'-0"	GL	BB	AL	3		DD-08	No	06/A440	05/A440	04/A440	
D-0012A	RECEPTION	3'-0"	7'-0"	GL	B	AL			DD-06	Yes	13/A440	10/A440	14/A440	CARD READER
D-0012B	RECEPTION	3'-0"	7'-0"	GL	B	AL	2		DD-06	No	13/A440	10/A440	14/A440	
D-0012C	CORRIDOR	3'-0"	7'-0"	HM	A	HM	2		DD-04	Yes	08/A440	09/A440	07/A440	CARD READER
D-0012D	JAN/LAUNDRY	2'-6"	7'-0"	HM	A	HM	2		DD-01		08/A440	09/A440	07/A440	
D-0012E	WAREWASH	3'-0"	7'-0"	HM	--	HM								
D-0012F	PAPER STORAGE	2'-6"	7'-0"	HM	A	HM	2		DD-01					
D-0013	CORRIDOR	3'-0"	7'-0"	HM	A	HM	2		DD-02	Yes	08/A440	05/A440	04/A440	CARD READER

DOOR SCHEDULE - EXISTING DOORS

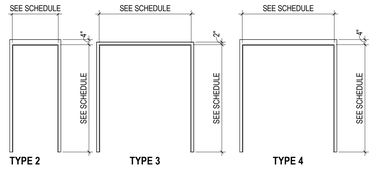
DOOR						FRAME		FIRE		CARD	DETAILS - SHEET AX.XX			
NUMBER	ROOM NAME	WIDTH	HEIGHT	MATERIAL	ELEV	MATERIAL	ELEV	RATING	HDW SET	READER	HEAD	JAMB	SILL	REMARKS
D-003B	CORRIDOR	6'-0"	7'-0"		DD		4							EXISTING: PROVIDE NEW HARDWARE FOR EXISTING DOOR AND FRAME

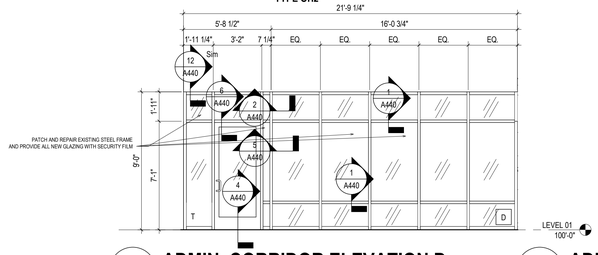
DOOR PANEL TYPE LEGEND



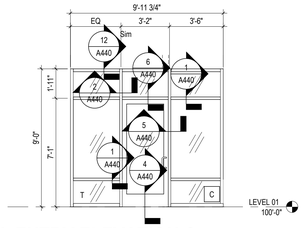


DOOR FRAME TYPE LEGEND

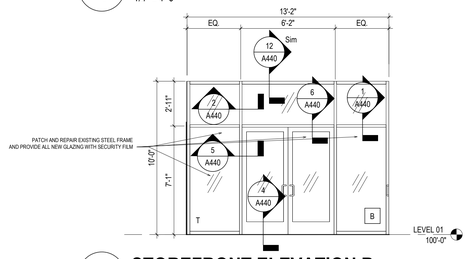




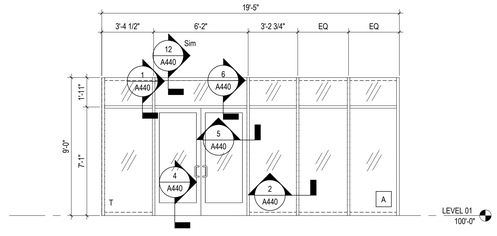
4 ADMIN. CORRIDOR ELEVATION D
1/4" = 1'-0"



3 ADMIN. ENTRY ELEVATION C
1/4" = 1'-0"



2 STOREFRONT ELEVATION B
1/4" = 1'-0"



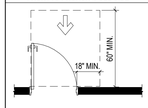
1 STOREFRONT ELEVATION A
1/4" = 1'-0"

KEY PLAN

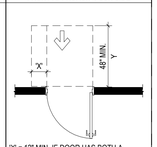
#	DATE	CHANGE DESCRIPTION

DOOR CLEARANCES

FRONT APPROACH, PULL SIDE

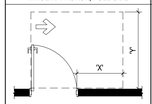


FRONT APPROACH, PUSH SIDE



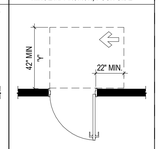
"X" = 12" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH.
"Y" = 52" MIN. ICC A117.1 2017

HINGE APPROACH, PULL SIDE



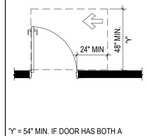
"X" = 36" MIN. IF "Y" = 60" MIN.
"X" = 42" MIN. IF "Y" = 54" MIN.

HINGE APPROACH, PUSH SIDE



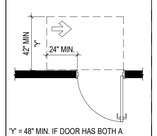
"Y" = 48" MIN. IF DOOR HAS A CLOSER (A117.1 2017) OR A CLOSER AND A LATCH (ADA OR A117.1 2009/ICC A117.1 2017

LATCH APPROACH, PULL SIDE



"Y" = 54" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH

LATCH APPROACH, PUSH SIDE



"Y" = 48" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH

INTERIOR GLAZING TYPES

GL-1 INTERIOR GLAZING (CLEAR TEMPERED)

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
DOOR & WINDOW SCHEDULES/ELEVATIONS

09.19.2025
R22301.01
A701
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/2/2025 9:49:29 AM
FILE INFO: J:\Active\Dallas\22301\01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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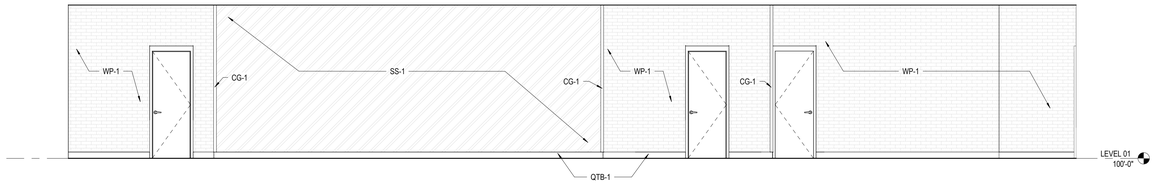
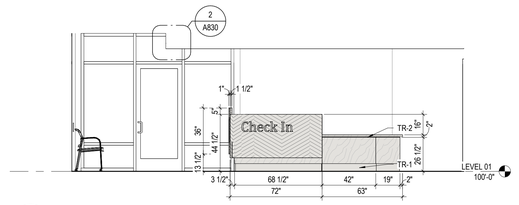
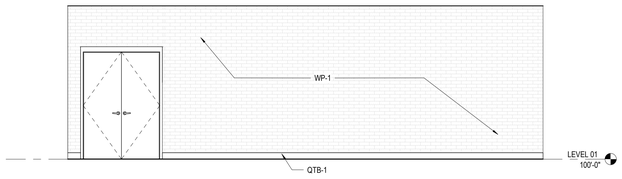


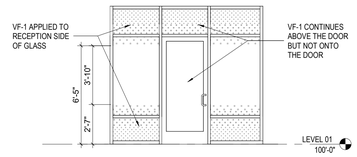
10 ELEVATION CAFETERIA / KITCHEN - SOUTH
1/4" = 1'-0" REF: 1 / A101A



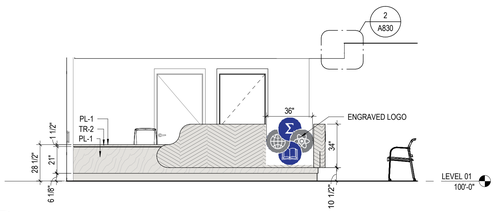
5 ELEVATION RECEPTION DESK - NORTH
1/4" = 1'-0" REF: 1 / A101A



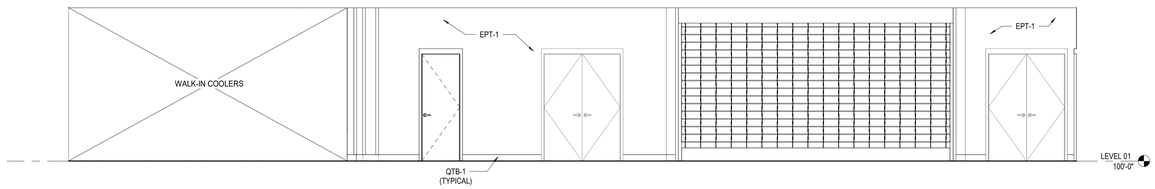
9 ELEVATION CAFETERIA - EAST
1/4" = 1'-0" REF: 1 / A101A



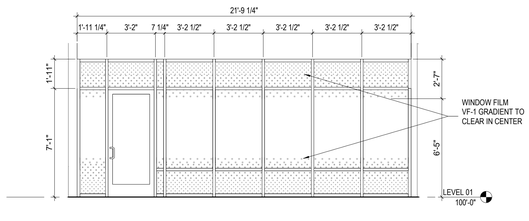
8 ELEVATION CORRIDOR SOUTH - DOOR INTO RECEPTION
1/4" = 1'-0" REF: 1 / A101B



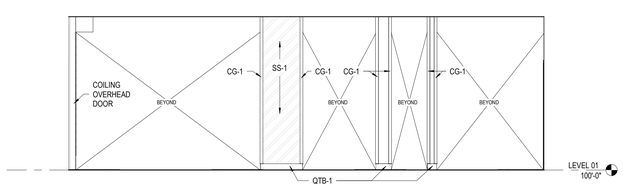
4 ELEVATION RECEPTION DESK - EAST
1/4" = 1'-0" REF: 1 / A101A



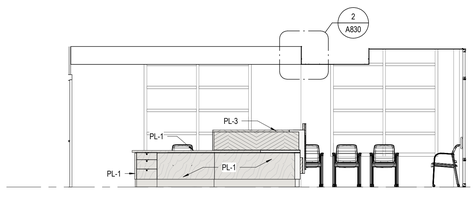
13 ELEVATION CAFETERIA/KITCHEN - NORTH
1/4" = 1'-0" REF: 1 / A101A



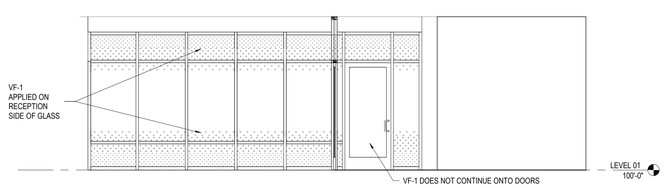
3 ELEVATION RECEPTION - WEST WALL
1/4" = 1'-0" REF: 1 / A101A



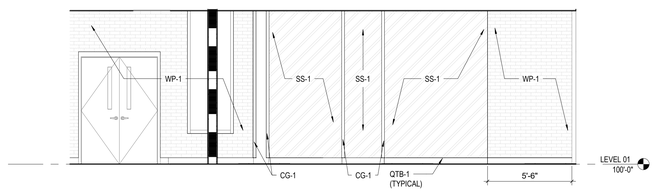
12 ELEVATION CAFETERIA SERVICE COUNTER - EAST
1/4" = 1'-0" REF: 1 / A101A



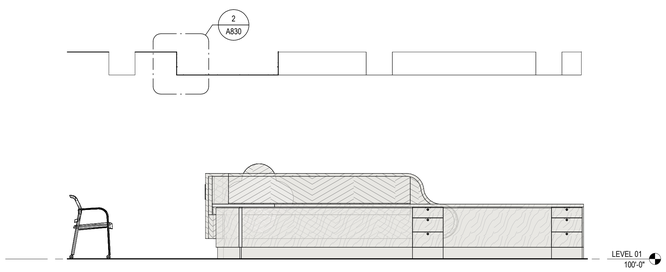
7 ELEVATION RECEPTION DESK - SOUTH
1/4" = 1'-0" REF: 1 / A101A



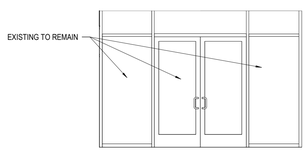
2 ELEVATION ENTRY CORRIDOR & VESTIBULE - EAST
1/4" = 1'-0" REF: 1 / A101A



11 ELEVATION CAFETERIA - WEST
1/4" = 1'-0" REF: 1 / A101A



6 ELEVATION RECEPTION DESK - WEST
3/8" = 1'-0" REF: 1 / A101A



1 ELEVATION ENTRY CORRIDOR - SOUTH
1/4" = 1'-0" REF: 1 / A101A

KEY PLAN

#	DATE	CHANGE DESCRIPTION

GEN. NOTES - ELEVATIONS

1. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
2. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
3. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
4. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
5. PROVIDE BLIND CABINETS WHERE APPLICABLE.
6. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
7. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
8. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
9. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
10. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
11. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
12. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ELEVATIONS

- (X) TBD
- (X) TBD
- (X) TBD
- (X) TBD

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
INTERIOR ELEVATIONS

REGISTERED ARCHITECT BRIAN FIBER 28912 STATE OF TEXAS

09.19.2025
R22301.01
A801
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/2/2025 9:55:25 AM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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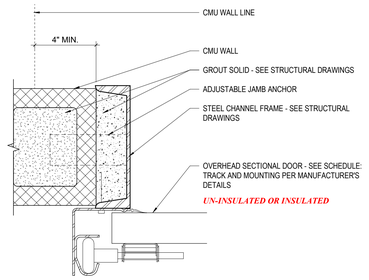
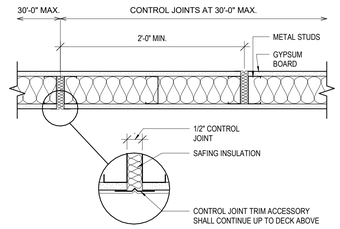
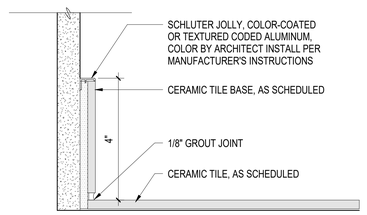


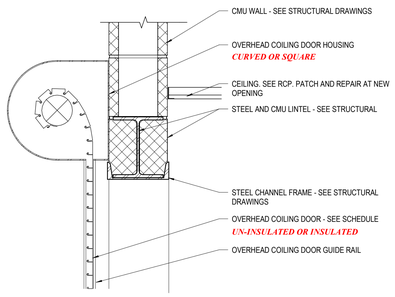
14 SECTIONAL OVERHEAD DOOR JAMB
3" = 1'-0"



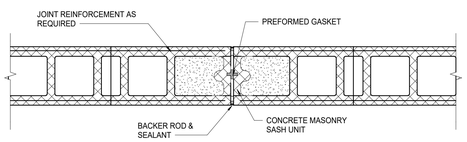
9 DETAIL CONTROL JOINTS
1 1/2" = 1'-0"



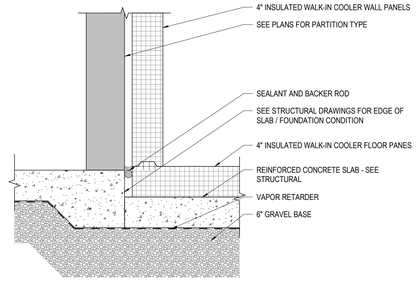
4 DETAIL FLAT TOP CERAMIC TILE BASE
6" = 1'-0"



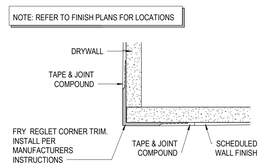
13 DETAIL OVERHEAD COILING DOOR HEAD
1 1/2" = 1'-0" REF: 1 / A201A



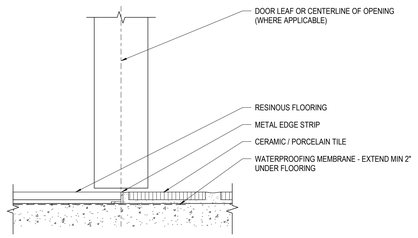
8 DETAIL EXPANSION JNT DETAIL
1 1/2" = 1'-0"



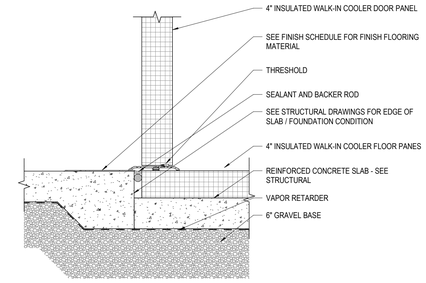
3 DETAIL WALK-IN COOLER PANEL FLOOR - WALL
1 1/2" = 1'-0"



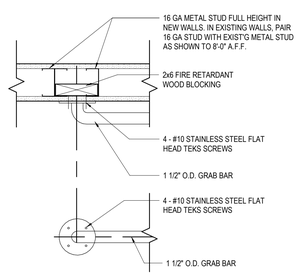
12 DETAIL CORNER GUARD
6" = 1'-0"



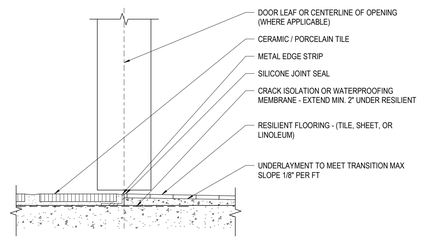
7 DETAIL FLOOR TRANSITION - RESINOUS TO CERAMIC TILE
6" = 1'-0" REF: 1 / A901A



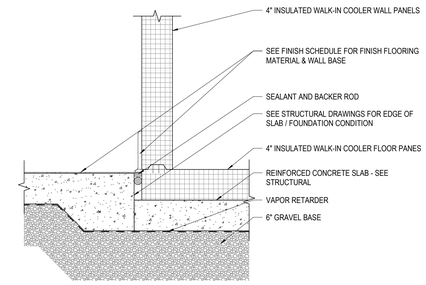
2 DETAIL WALK-IN COOLER PANEL FLOOR - DOOR
1 1/2" = 1'-0"



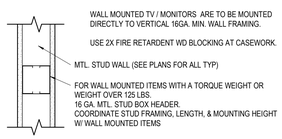
11 DETAIL GRAB BAR ATTACHMENT
1 1/2" = 1'-0"



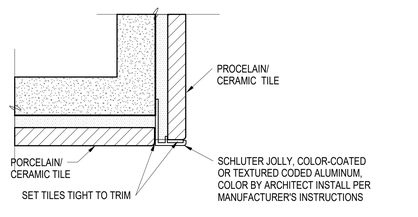
6 DETAIL FLOOR TRANSITION - CERAMIC OR PORCELAIN TILE / RESILIENT
6" = 1'-0" REF: 1 / A901A



1 DETAIL WALK-IN COOLER PANEL FLOOR
1 1/2" = 1'-0"



10 DETAIL BLOCKING REINFORCING
1 1/2" = 1'-0"



5 DETAIL CERAMIC WALL TILE OUTSIDE CORNER
12" = 1'-0"

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KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

INTERIOR DETAILS

09.19.2025

R22301.01

A820

100% CD'S SUBMITTAL

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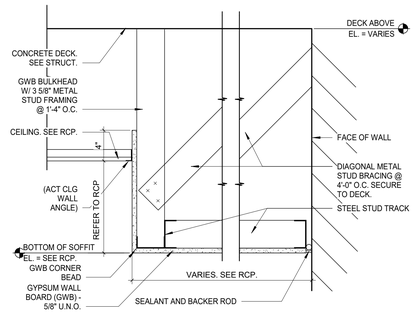
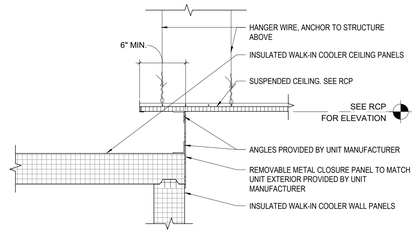


2 DETAIL - TYPICAL SOFFIT

1 1/2" = 1'-0"



1 WALK-IN COOLER / CEILING TRANSITION

1 1/2" = 1'-0"

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212

4747 Veterans Dr, Dallas, TX 75216

FOR

DISD

Moody Nolan

DRAWING TITLE:

CEILING DETAILS

REGISTERED ARCHITECT BRIAN TIBBS 28912 STATE OF TEXAS

12/02/2025

12.02.2025

R22301.01

A830

100% CD'S SUBMITTAL

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FINISH LEGEND

FINISH TYPE	TAG	MANUFACTURER	STYLE	COLOR/FINISH	SIZE	COMMENTS
BASE						
QUARRY TILE BASE	QB-1	DALTILE	QUARRY TEXTURES	ASHEN GRAY 0T03 - COVE BASE	5"H x 8"W (PLUS CORNER PIECES)	INCLUDE ALL NECESSARY CORNER TRIM PIECES
RESILIENT BASE	RB-1	-	MATCH EXISTING	-	4"	IF UNABLE TO MATCH EXISTING USE TARKETT STANDARD 4" TOE 29 MOON ROCK WG
FLOORS						
CARPET (TILE OR BROADLOOM)	CR-1	-	OWNER PROVIDED, CONTRACTOR INSTALLED	-	-	
ENTRANCE CARPET	EC-1	MATTER SURFACES	BERBER MAT	CHARCOAL	6'x10' MAT W/ FINISHED EDGE	PLACED ON TOP OF FINISHED INSTALLED QUARRY TILE FLOOR - NOT IN LOU OF
LUXURY VINYL TILE	LVT-1	-	OWNER PROVIDED, CONTRACTOR INSTALLED	-	-	EXISTING - FROM ATTIC STOCK TO BE REPLACED AS NECESSARY
QUARRY TILE	QT-1	DALTILE	QUARRY TEXTURES	ASHEN GRAY 0T03 - MATTE FINISH	8x8" x 1/2" THICK	GROUT: TBD; SCHLUTER RENO-V (OR SIMILAR) TRIM AT TRANSITION EDGES
QUARRY TILE	QT-2	DALTILE	QUARRY TEXTURES	DIABLO RED 0T01 - MATTE FINISH	8x8" x 1/2" THICK	SEE FINISH PLAN FOR PATTERN
QUARRY TILE	QT-3	DALTILE	QUARRY TEXTURES	ASHEN FLASH 0T04 - MATTE FINISH	8x8" x 1/2" THICK	GROUT: TBD; SCHLUTER RENO-V (OR SIMILAR) TRIM AT TRANSITION EDGES
RESILIENT SHEET FLOORING	RF-1	GERFLOR	TARAFLEX SPORT M PLUS	6350 LIGHT CHERRY	7.5mm THICK (2.1mm WEAR LAYER); 4.92' W x 86.6' ROLL	HEATWELD SEAMS; GAMELINE PAINT TBD BY OWNER
SEALED CONCRETE	SC-1	-	REFER TO SPECS	-	-	
VINYL COMPOSIT TILE	VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	MATCH EXISTING CORRIDOR VCT COLOR; IF UNABLE TO MATCH USE COLOR 51908 PEWTER	12"X12"	INSTALL: QUARTER TURN
VINYL COMPOSIT TILE	VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	57532 GRAYSON	12"X12"	INSTALL: QUARTER TURN
VINYL COMPOSIT TILE	VCT-3	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	57508 BLUE DREAMS	12"X12"	INSTALL: QUARTER TURN
VINYL COMPOSIT TILE	VCT-4	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	51946 GENETIAN BLUE	12"X12"	INSTALL: QUARTER TURN
MISCELLANEOUS						
CORNER GUARDS	CG-1	KOROSEAL	STAINLESS STEEL 2" LEG	-	-	
PLASTIC LAMINATE	PL-1	WILSONART	-	MONTANA WALNUT 7110K-78, FINEGRAIN W/ AEON	-	
PLASTIC LAMINATE	PL-2	WILSONART	-	NEPAL TEAK 7209-78	-	
PLASTIC LAMINATE	PL-3	WILSONART		INDIGO D379-60, MATTE FINISH		
PLASTIC LAMINATE	PL-4	WILSONART		NORTH SEA D90-60, MATTE FINISH		
PLASTIC LAMINATE	PL-5	WILSONART		DESIGNER WHITE D354-60, MATTE FINISH		
TRANSITIONS/TRIMS	TR-1	-	16 OR 18 GUAGE BRUSHED STAINLESS STEEL FLAT BAR BASE MOUNLDING	BRUSHED STAINLESS STEEL	HEIGHT AS NOTED IN ELEVATIONS	DIRECT ADHEARDED TO SUBSTRATE
TRANSITIONS/TRIMS	TR-2	FRY REGLET	MILLWORK REVEAL "F" MWRF5050	CLEAR ANODIZED	1/2"	
WOOD DOOR	WD-1		RED OAK	STAIN TO MATCH EXISTING DOORS		
WALLS						
BALLISTIC WINDOW FILM	BF-1	SEE SPECS	BALISTIC WINDOW FILM		SEE ELEVATIONS	APPLIED TO ALL GLASS ENTRY DOORS AND SURROUNDS
CERAMIC WALL TILE	WT-1	DALTILE	RETROSPACE REMIX	RS31 MERCURY GREY SQUARE UNDULATED GLOSSY WITH MATCHING DALTILE JOLLY TILE TRIM	TILE: 6"x6" x 5/16"; TRIM: 1/2"x12"	INSTALL: VERTICAL STRAIGHT STACK - UP TO 7' ON WET AND WET ADJACENT WALL; GROUT: TBD; FINISH TOP EDGE W/ MATCHING JOLLY TILE TRIM
EPOXT PAINT	EPT-1	SHERWIN WILLIAMS	EPOXY PAINT	MATCH KELLY MOORE SOFT SESAME OW227	-	Semi-gloss finish three coat enamel system w/epoxy primer and light sand texture (all wet areas surfaces)
PAINT	PT-1	SHERWIN WILLIAMS	-	MATCH KELLY MOORE SOFT SESAME OW227	-	Semi-gloss finish three coat enamel system w/light sand texture
PAINT	PT-2	SHERWIN WILLIAMS	-	DISD CUSTOM LIGHT BROWN	-	SEE OWNER STANDRDS FOR COLOR INFO
STAINLESS STEEL	SS-1	-	14 gauge, 304 stainless steel on 1/2 inch cementitious board installed with stainless steel mounting strips	BRUSHED STAINLESS STEEL		WALL BEHIND COOKING LINE
VINYL FILM	VF-1	MDC	DIGITAL PRINT VINYL ADHESIVE BACKED FILM	CUSTOM DIGITAL PRINT ON CLEAR	SEE ELEVATIONS	CUSTOM IMAGERY TO GRADIENT TBD
WALL PROTECTION	WP-1	MARLITE	SYMMETRIX: SUBWAY HORIZONTAL 8"x4" TILE	CUSTOM COLOR TBD W/ WHITE "GROUT LINES"	4'X4' PANLES	Install on 1/2 inch cementitious board when used at or adjacent to food prep or wet walls.
WALL PROTECTION	WP-2	MARLITE	STANDARD FRP - PEBBLE TEXTURE	P 145 SILVER (CLASS A)	4'x9' SHEETS	WITH MATCHING TRIM; Install on 1/2 inch cementitious board when used at or adjacent to food prep or wet walls.

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9. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
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18. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

FINISH LEGEND

REGISTERED ARCHITECT BRIAN TIBBS 28917 STATE OF TEXAS
12/02/2025

12.02.2025
R22301.01
A900
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/2/2025 11:19:48 AM
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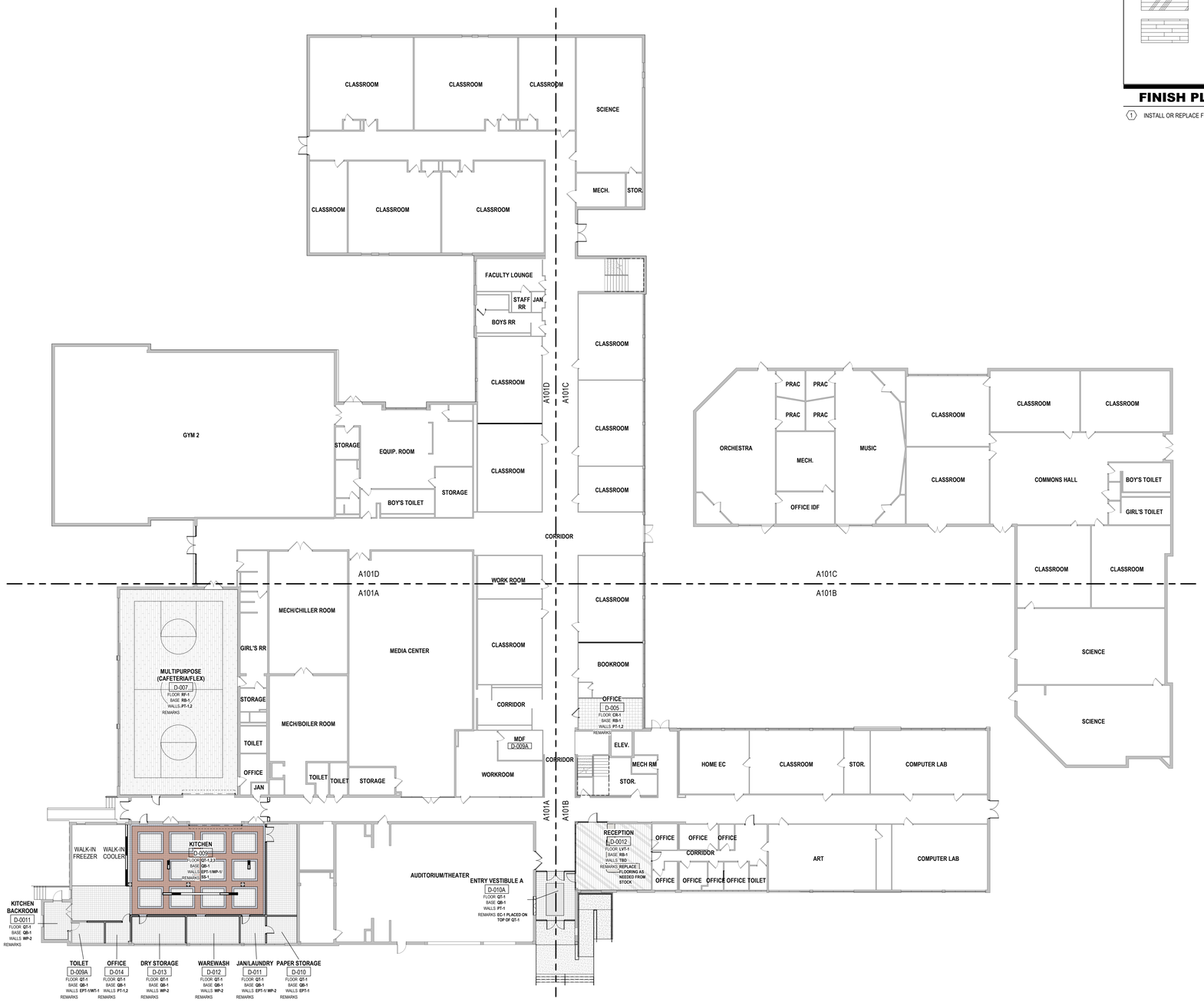


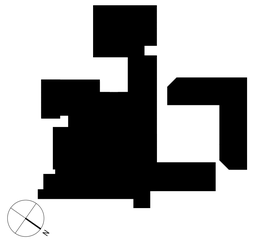
FLOOR PATTERN LEGEND

- CR-1 CARPET TILE
- EC-1 ENTRANCE CARPET
- QT-1 QUARRY TILE
- LVT-1 LUXARY VINYL TILE
- RF-1 RESILIENT SHEET FLOOR

FINISH PLAN CODED NOTES

1. INSTALL OR REPLACE FLOORING AS NEEDED FROM EXISTING STOCK

KEY PLAN



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1 **PLAN** OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

PLAN NORTH

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FINISH PLAN - OVERALL

12.02.2025

R22301.01

A901

100% CD'S SUBMITTAL

REVIT VERSION: 2023
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FINISH PLAN CODED NOTES

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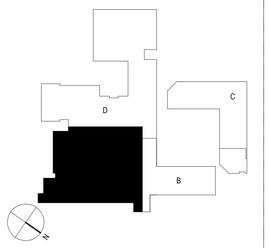
KEY PLAN



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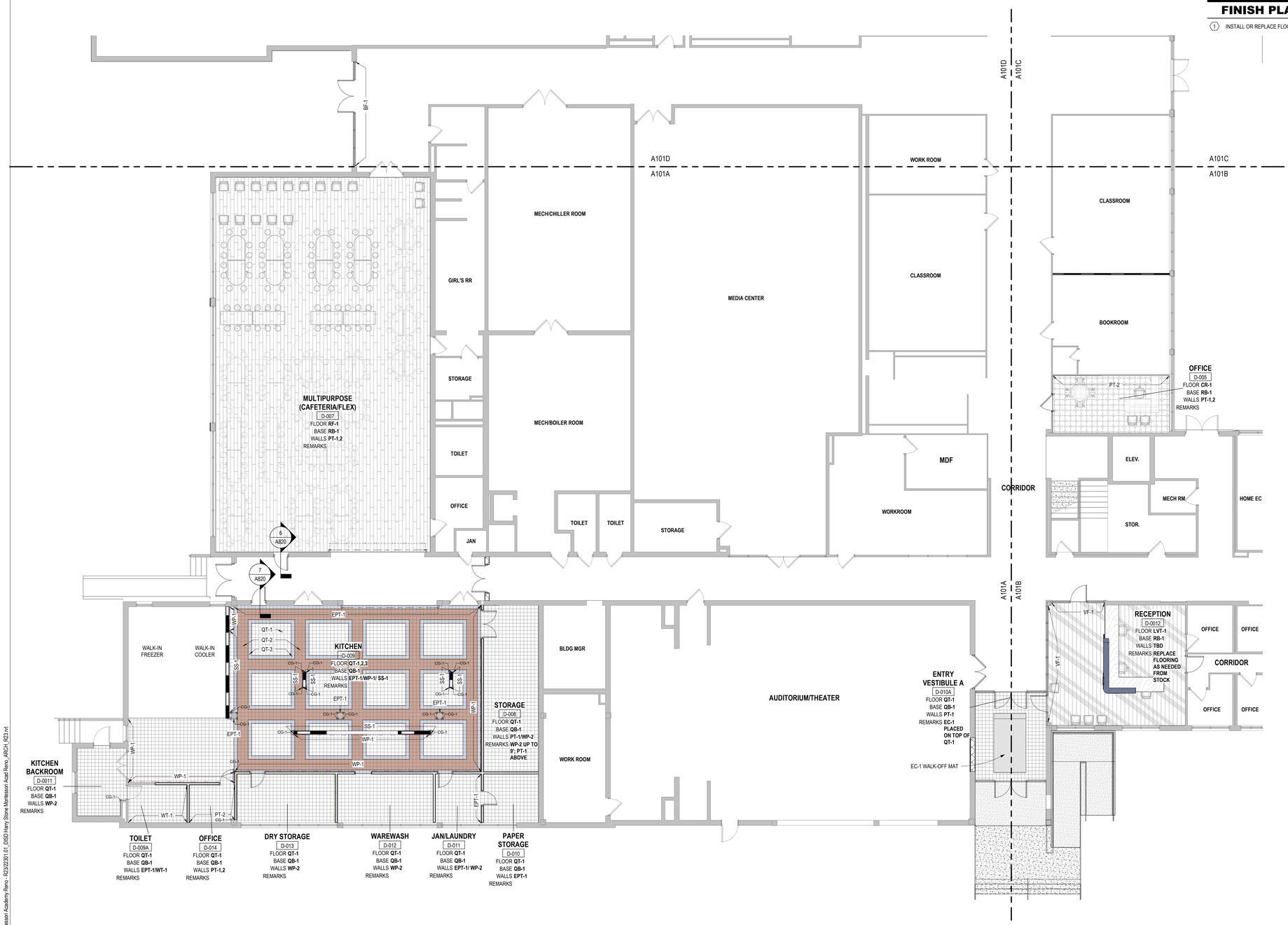

1 LEVEL 01 - FINISH FLOOR PLAN - AREA 'A'

1/8" = 1'-0"

FURNITURE SHOWN FOR REFRENCE ONLY

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8. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.
9. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
10. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.
11. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.
12. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.
13. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
14. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
15. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.
16. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.
17. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.
18. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FINISH PLAN - AREA 'A'

REGISTERED ARCHITECT BRIAN J. NOLAN 28911 STATE OF TEXAS
12/02/2025

12.02.2025

R22301.01

A901A

100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 9/22/2025 11:20:02 AM
FILE INFO: J:\Autodesk Docs\R22301.01_DISD Harry Stone Montessori Academy Reno - R23\R22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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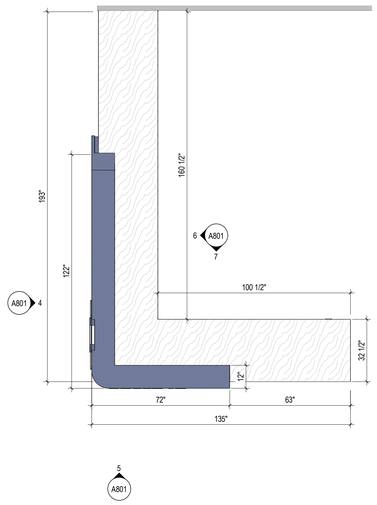
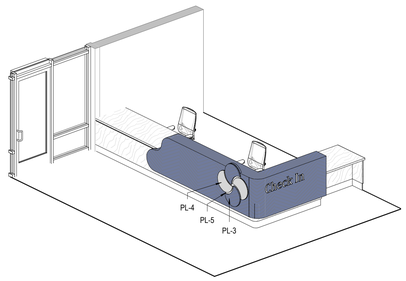
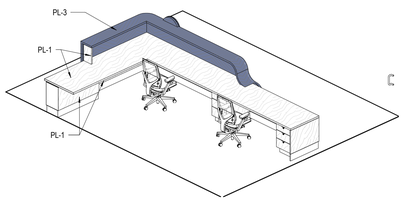


2 ENLARGED PLAN RECEPTION DESK

3/8" = 1'-0" REF: 1 / A101A



3 AXONOMETRIC RECEPTION DESK FRONT



4 AXONOMETRIC RECEPTION DESK BACK

1 PLAN LEVEL 01 - FINISH FLOOR PLAN - AREA 'B'

1/8" = 1'-0"

FURNITURE SHOWN FOR REFRENCE ONLY

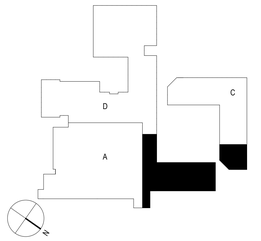
FLOOR PATTERN LEGEND

- CR-1 CARPET TILE
- EC-1 ENTRANCE CARPET
- QT-1 QUARRY TILE
- LVT-1 LUXARY VINYL TILE
- RF-1 RESILIENT SHEET FLOOR

FINISH PLAN CODED NOTES

1. INSTALL OR REPLACE FLOORING AS NEEDED FROM EXISTING STOCK

KEY PLAN



#	DATE	CHANGE DESCRIPTION

GENERAL NOTES - FINISH PLANS

1. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL. FINISH (SUB) CONTRACTORS ARE REQUIRED TO READ, UNDERSTAND AND FOLLOW ALL RELEVANT SECTIONS OF THE PROJECT MANUAL.
2. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
3. NO FINISH MATERIAL SUBSTITUTIONS WILL BE ACCEPTED EXCEPT IN THE SPECIFIC CIRCUMSTANCES ENUMERATED IN THE PROJECT MANUAL.
4. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. MATERIAL, FINISH AND COLOR INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS THE PAINT COLORS SHOULD BE SPLIT AT THE JAMB OF THE FRAME.
5. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
6. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).
7. PAINT DESIGNATED FOR METAL STAIR COMPONENTS IS TO INCLUDE ALL EXPOSED METAL COMPONENTS ASSOCIATED WITH THE STAIR SYSTEM ITSELF. ALL EXPOSED STRUCTURAL STEEL COMPONENTS SUPPORTING THE STAIR SYSTEM (UNLESS NOTED OTHERWISE), AND ALL EXPOSED METAL COMPONENTS OF THE HANDRAIL AND GUARDRAIL SYSTEMS (UNLESS NOTED OTHERWISE). UNDERSIDES OF STAIR RUNS AND LANDINGS ARE CONSIDERED "EXPOSED" IN ALL SITUATIONS.
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14. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
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18. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212

4747 Veterans Dr, Dallas, TX 75216

FOR

DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - FINISH PLAN - AREA 'B'

REGISTERED ARCHITECT BRIAN ABBEY 28912 STATE OF TEXAS

12/02/2025

12.02.2025

R22301.01

A901B

100% CD'S SUBMITTAL

REVIT VERSION: 2023
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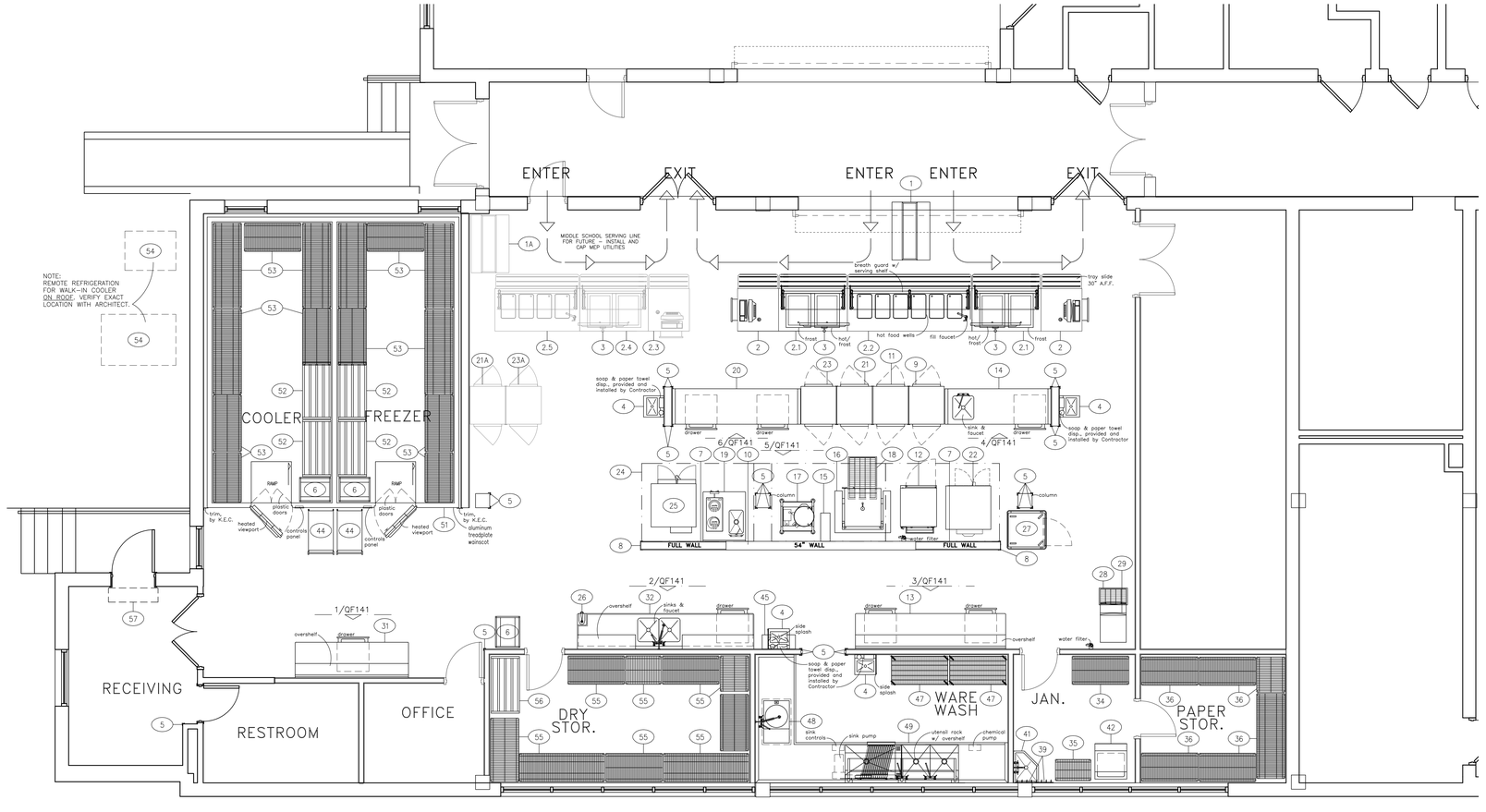
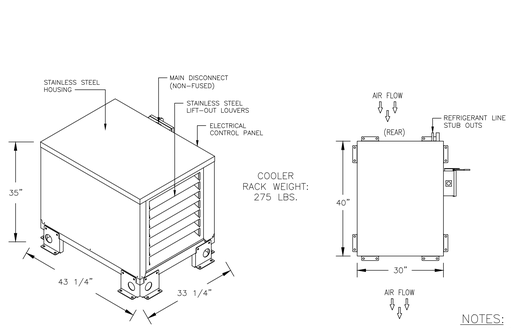


1 KITCHEN & SERVING RENOVATION PLAN
QF101 SCALE: 1/4" = 1'-0"

EQUIPMENT LEGEND

1. REFRIGERATED MILK CABINET
1A. REFRIGERATED MILK CABINET – FUTURE
2.0 CASHIER COUNTER
2.1 HOT/FROST COUNTER
2.2 HOT FOOD COUNTER
2.3 CASHIER COUNTER – FUTURE
2.4 HOT/FROST COUNTER – FUTURE
2.5 HOT FOOD COUNTER – FUTURE
∗ 3. VIDEO MONITOR/MENU BOARD SYSTEM
4. HAND SINK
5. STAINLESS STEEL CORNER GUARD
∗ 6. MOBILE PAN RACK
7. STAINLESS STEEL WALL PANELING
8. STAINLESS STEEL END WALL CAP
9. PASS-THRU REFRIGERATOR
10. STAINLESS STEEL WALL CAP
11. PASS-THRU HEATED CABINET
12. DOUBLE STEAMER
13. WORK TABLE W/OVERSHELF
14. WORK TABLE W/SINK
15. UTILITY FAUCETS W/WALL BRACKET
16. PRESSURE TILT SKILLET
17. KETTLE ON STAND
18. FLOOR TROUGH W/GRATE
19. 2 BURNER INDUCTION RANGE w/SINK
20. WORK TABLE
21. PASS-THRU HEATED CABINET
21A. PASS-THRU HEATED CABINET – FUTURE
22. DOUBLE CONVECTION OVEN
23. PASS-THRU REFRIGERATOR
23A. PASS-THRU REFRIGERATOR – FUTURE
24. EXHAUST HOOD W/FIRE PROTECTION
25. DOUBLE CONVECTION OVEN
∗ 26. MANUAL CAN OPENER
27. MOBILE PROOFER/HEATED CABINET
28. FLOOR TROUGH W/GRATE
29. ICE MACHINE W/BIN
30. SPARE NUMBER
31. WORK TABLE W/OVERSHELF
32. WORK TABLE W/ 2 COMPARTMENT SINK
33. SPARE NUMBER
∗ 34. STORAGE SHELVING
∗ 35. STORAGE SHELVING
∗ 36. PAPER STORAGE SHELVING
37. SPARE NUMBER
38. SPARE NUMBER
39. MOP AND BROOM HOLDER
40. SPARE NUMBER
41. MOP SINK
42. STACKED WASHER/DRYER
43. SPARE NUMBER
∗ 44. UTILITY CART
45. FIRE PROTECTION SYSTEM
46. SPARE NUMBER
47. MOBILE DISH DRYING RACK
48. POT & PAN COLLECTOR W/ SPRAY RINSE FAUCET
49. POWERSOAK 3 COMPARTMENT SINK
50. SPARE NUMBER
51. WALK-IN COOLER/FREEZER COMPARTMENT
52. DUNNAGE RACK
∗ 53. WALK-IN COOLER/FREEZER SHELVING
54. REMOTE REFRIGERATION SYSTEM
∗ 55. DRY STORAGE SHELVING
56. DUNNAGE RACK
57. FLY FAN

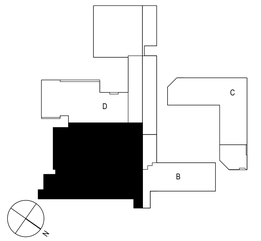
∗ DENOTES EQUIPMENT OWNER FURNISHED & OWNER INSTALLED



NOTES:
1. GEN. CONTR. TO FURNISH & INSTALL PLATFORM LEVEL IN BOTH DIRECTIONS.
2. GENERAL CONTRACTOR TO BACKFILL OPENINGS WITH HOT PITCH AFTER ALL SERVICES AND REFRIGERATION LINES HAVE BEEN RUN.
3. ALL COVERS FOR ROOF PENETRATIONS TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. REFERENCE MECHANICAL ENGINEER'S DRAWINGS FOR DETAILS.
4. UNIT REQUIRES 36" CLEARANCE ON ALL SIDES FOR ACCESS/MAINTENANCE.

2 WALK-IN COOLER/FREEZER REFRIGERATION PACKAGE DETAIL
QF101 SCALE: NONE

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
KITCHEN & SERVING RENOVATION PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF101
100% CD'S SUBMITTAL

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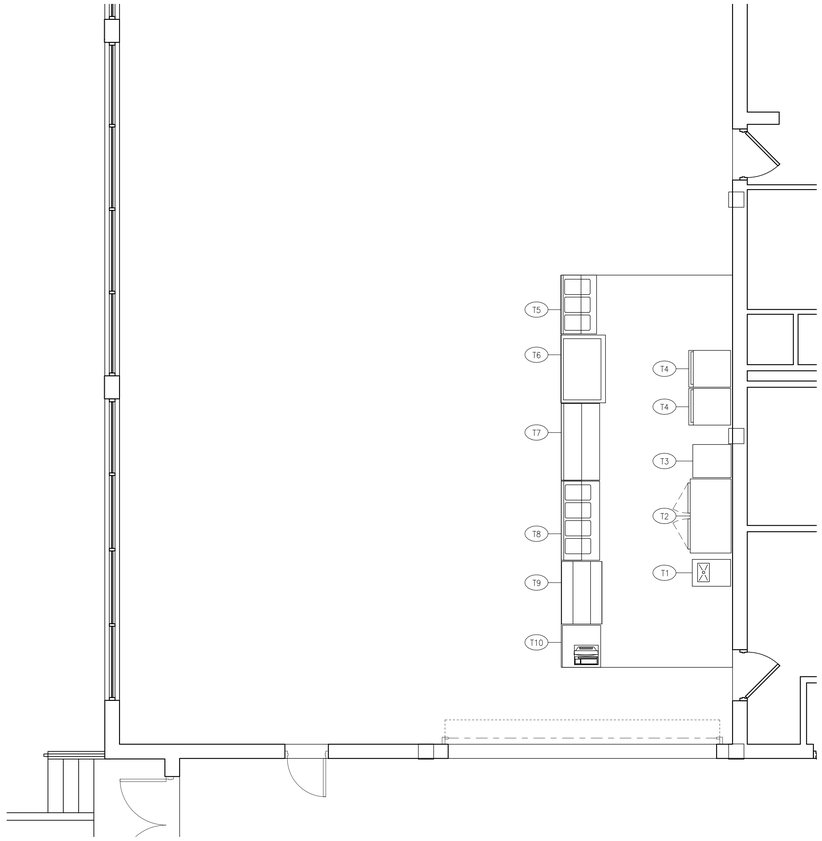


1 KITCHEN TEMPORARY SERVICE LINE PLAN
QF102 SCALE: 1/4" = 1'-0"

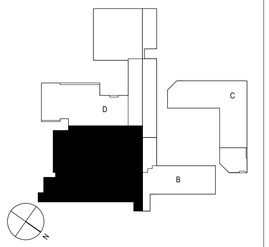
EQUIPMENT LEGEND

- T1. HAND SINK, SELF CONTAINED
- * T2. 2 DOOR REACH-IN REFRIGERATOR
- * T3. WORK TABLE
- * T4. MOBILE HEATED CABINET
- T5. EXISTING HOT FOOD COUNTER
- T6. EXISTING REFRIGERATED DISPLAY CASE
- T7. EXISTING FLAT TOP COUNTER
- T8. EXISTING HOT FOOD COUNTER
- T9. EXISTING MILK CABINET
- T10. EXISTING CASHIER COUNTER

NOTE: THE EXISTING SERVIGN LINE COMPONENTS SHALL BE RELOCATED BY THE KEC TO BE USED IN THE TEMPORARY SERVING LINE SET UP.

* DENOTES EQUIPMENT FURNISHED BY OWNER

KEY PLAN



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4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
KITCHEN TEMPORARY SERVICE LINE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF102
100% CD'S SUBMITTAL

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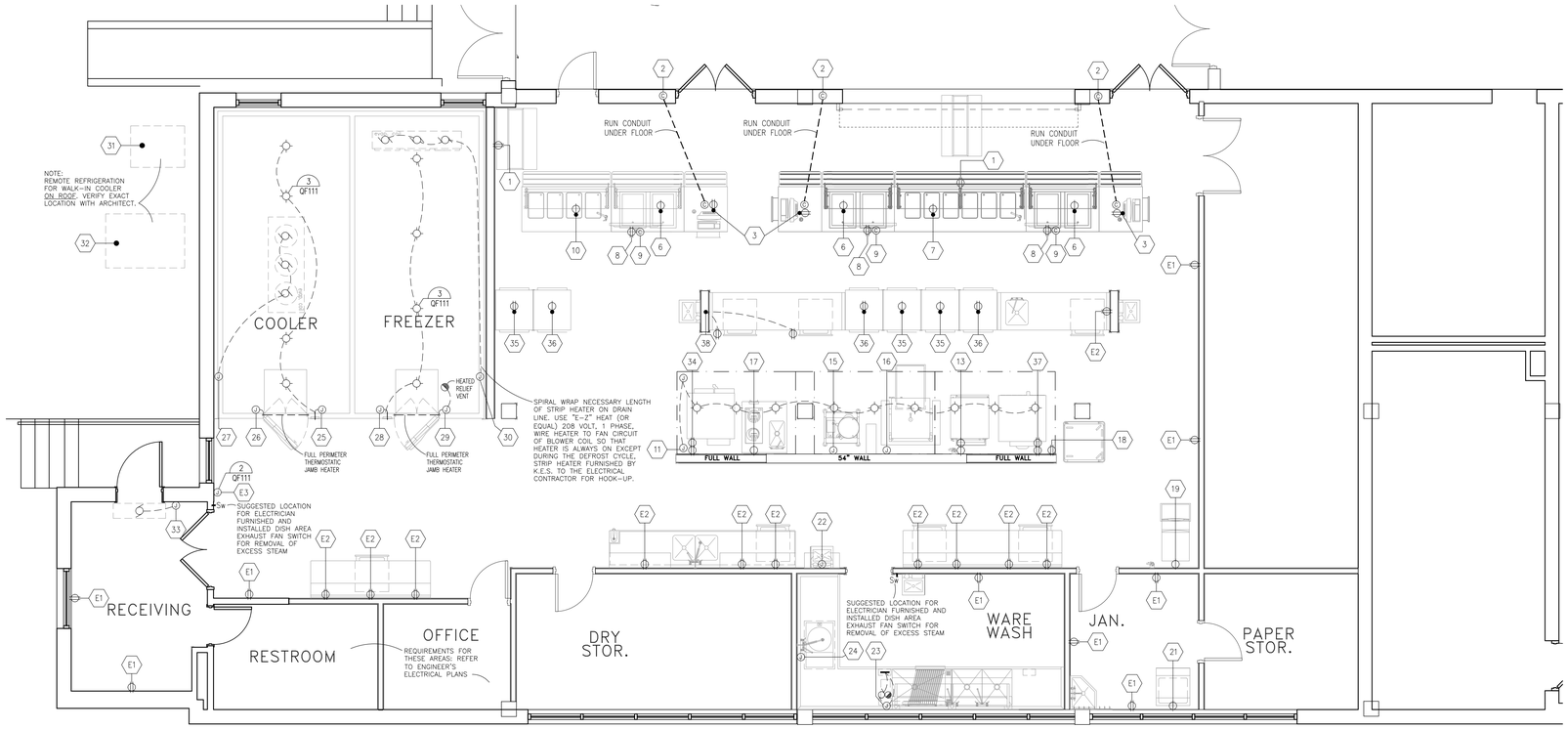


1 FOODSERVICE ELECTRICAL REQUIRMENTS PLAN
QF111 SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

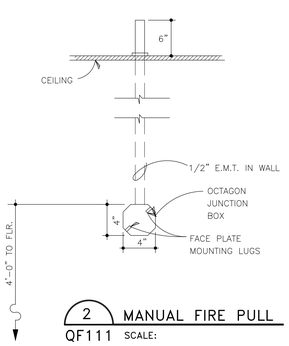
E1. 120 VOLT, 1 PHASE, 20.0 AMPS. (RATED), EL. 18" A.F.F., D.C.O. FOR GENERAL USE.

E2. 120 VOLT, 1 PHASE, 20.0 AMPS. (RATED), EL. 48" A.F.F., D.C.O. FOR GENERAL USE.

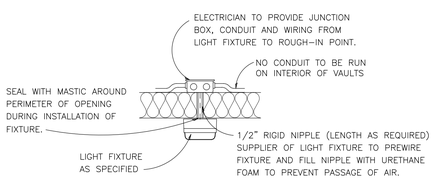
E3. 4" X 4" OCTAGON JUNCTION BOX WITH 1/2" E.M.T. EXTENDING TO 6" ABOVE CEILING FOR REMOTE EXIT FIRE PULL SET AT 4'-0" ABOVE FINISHED FLOOR. SEE DETAIL 2/QF111.

1. 120 VOLT, 1 PHASE, 7.2 AMPS., EL. PER ALUMINUM, STORE FRONT MANUFACTURER, D.C.O. FOR MOBILE MILK CABINET.
2. 1" CONDUIT, S.U. 4", EXTEND OPEN CONDUIT UNDER FLOOR, OVER TO WALL, AND UP TO A POINT (MNIMUM 6") ABOVE CEILING LINE FOR OWNER'S P.O.S. WIRING SYSTEM.
3. 120 VOLT, 1 PHASE, 7.3 AMPS., S.U. 4" A.F.F. DEDICATED CIRCUIT FOR P.O.S. SYSTEM. NEMA 5-15P
4. SPARE NUMBER
5. SPARE NUMBER
6. 120 VOLT, 1 PHASE, 12.0 AMPS., S.U. 4" A.F.F., S.C.O. FOR HOT/FROST COUNTER.
7. 120/208 VOLT, 1 PHASE, 19.4 AMPS., S.U. 4" A.F.F., S.C.O. NEMA L14-30P FOR HOT WELL COUNTER.
8. 120 VOLT, 1 PHASE, 16.0 AMPS., D.F.A., AT MONITOR LOCATIONS.
9. 1" CONDUIT FOR DATA CABLING, D.F.A. IN CEILING AT MONITOR LOCATIONS, EXTEND OPEN CONDUIT ABOVE CEILING.
10. 120/208 VOLT, 1 PHASE, 12.0 AMPS., S.U. 4" A.F.F., S.C.O. FOR HOT WELL COUNTER.
11. 120 VOLT, 1 PHASE, 765 WATTS, D.F.A., B.T.C. ON PREWIRED JUNCTION BOX ON TOP OF VENTILATOR. SWITCHES TO LIGHTS AND FANS FURNISHED AND INSTALLED BY ELECTRICIAN AND CONNECTED TO CIRCUIT.
12. SPARE NUMBER
13. 120 VOLT, 1 PHASE, 15.0 AMP. (RATED), EL. 18" & 48" A.F.F. S.C.O. FOR DOUBLE STEAMER.
14. SPARE NUMBER
15. 208 VOLT, 3 PHASE, 30.0 AMPS., EL. 18" A.F.F., J-BOX, B.T.C., ON KETTLE.
16. 208 VOLT, 3 PHASE, 43.0 AMPS., EL. 18" A.F.F., J-BOX, B.T.C. ON TILT SKILLET.
17. 208 VOLT, 1 PHASE, 7KW., EL. 18" A.F.F., S.C.O. FOR INDUCTION COOKTOP.
18. 120 VOLT, 1 PHASE, 13.8 AMPS., EL. 18" A.F.F., D.C.O. FOR MOBILE PROOFER/HEATED CABINET.
19. 120 VOLT, 1 PHASE, 11.4 AMPS , EL. 5'-0" A.F.F., S.C.O. (FUSE CIRCUIT WITH TIME DELAY FUSE), ON ICE MACHINE.
20. SPARE NUMBER
21. 208 VOLT, 1 PHASE, 21.0 AMPS, EL. 30", S.C.O. FOR STACKED CLOTHES WASHER/DRYER.
22. CONTROL CIRCUIT FROM DIVISION 26 FURNISHED AND INSTALL SHUNT TRIP BREAKER(S) TO FIRE SUPPRESSION SYSTEM CONTROL/MICRO-SWITCH. SHUNT TRIP BREAKER(S) TO BE LOCATED IN PANEL SERVING ALL EQUIPMENT UNDER EXHAUST HOOD. IN CASE OF FIRE, ALL POWER TO EQUIPMENT UNDER EXHAUST HOOD WILL BE SHUT OFF. ALL GAS TO EQUIPMENT LOCATED UNDER EXHAUST HOOD SHALL ALSO SHUT OFF IN CASE OF FIRE. MUST BE SO WIRED THAT IN THE OF POWER FAILURE, FIRE SUPPRESSION SYSTEM WILL NOT BE ACTIVATED AND WHEN POWER IS RESTORED, FIRE SYSTEM WILL NOT ACTIVATE. MECHANICAL GAS VALVE IS TO BE FURNISHED BY K.E.C. AND INSTALLED BY PLUMBER.
23. 208 VOLT, 3 PHASE, 29.9 AMPS., EL. 18" A.F.F., J-BOX, B.T.C., ON POWER SOAK SINK, 2 HP MOTOR AND 7 K.W. HEATER.
24. 208 VOLT, 3 PHASE, 3.2 AMPS., EL. 18" A.F.F., J-BOX FOR POT/PAN COLLECTOR.
25. ⚠ 120 VOLT, 1 PHASE, 340 WATT, D.F.A., B.T.C. ON WALK-IN COOLER LIGHTS.
26. ⚠ 120 VOLT, 1 PHASE, 600 WATT, D.F.A., B.T.C. ON WALK-IN COOLER DOOR JAMB HEATER.
27. ⚠ 120 VOLT, 1 PHASE, 3.0 AMPS, D.F.A., B.T.C. ON WALK-IN COOLER COIL.
28. ⚠ 120 VOLT, 1 PHASE, 170 WATT, D.C.O., D.F.A., B.T.C. ON WALK-IN FREEZER LIGHTS.
29. ⚠ 120 VOLT, 1 PHASE, 900 WATT, D.F.A., B.T.C. ON WALK-IN FREEZER DOOR AND HEATED RELIEF VENT.
30. ⚠ 208 VOLT, 1 PHASE, 13.7 AMPS., D.F.A., B.T.C., ON WALK-IN FREEZER BLOWER COIL HEATERS AND MOTORS.
31. 208-230 VOLT, 3 PHASE, 11.9 MINIMUM CIRCUIT AMPACITY, 9.9 AMPS. CONNECTED LOAD, 15.0 AMPS. MAXIMUM FUSE, ON ROOF. B.T.C. ON PRE-WIRED FUSED DISCONNECT ON WALK-IN COOLER REFRIGERATION PACKAGE.
32. 208-230 VOLT, 3 PHASE, 28.3 MINIMUM CIRCUIT AMPACITY, 23.4 AMPS. CONNECTED LOAD, 40.0 AMPS. MAXIMUM FUSE, ON ROOF. B.T.C. ON PRE-WIRED FUSED DISCONNECT ON WALK-IN FREEZER REFRIGERATION PACKAGE.
33. 120 VOLTS, 1 PHASE, 10.2 AMPS., J-BOX, EL. 9'-0" A.F.F. D.F.A., B.T.C. ON INSECT FAN.
34. 120 VOLT, 1 PHASE, 10.0 AMPS, EL. 18" & 48" A.F.F. D.C.O. FOR DOUBLE HYDROVECTION OVEN. NEMA 5-20R.
35. 208 VOLT, 1 PHASE, 7.8 AMPS., D.F.A., S.C.O. FOR PASS-THRU HEATED CABINET. NEMA L14-30P. PROVIDE AND INSTALL SUFFICIENT STRAIN RELIEF.
36. 120 VOLT, 1 PHASE, 8.3 AMPS., D.F.A., D.C.O. FOR PASS-THRU REFRIGERATOR. PROVIDE AND INSTALL SUFFICIENT STRAIN RELIEF.
37. 120 VOLT, 1 PHASE, 6.0 AMPS, EL. 18" & 48" A.F.F. D.C.O. FOR DOUBLE CONVECTION OVEN. NEMA 5-15P.
38. 120 VOLT, 1 PHASE, 20.0 AMPS.. (RATED), EL. 18" A.F.F. FOR TABLE MOUNTED RECEPTACLE.

⚠ THESE ITEMS ARE NOT PRE-WIRED AND WILL REQUIRE INDIVIDUAL CONNECTIONS AND FIELD WIRING BY ELECTRICIAN.



2 MANUAL FIRE PULL
QF111 SCALE:



3 WALK-IN LIGHT DETAIL
QF111 SCALE: NONE

NOTE:
ALL RECEPTACLES TO CONFORM TO ELECTRICAL CODES. PROVIDE "GFI" OUTLETS WHERE REQUIRED.

NOTE:
THESE PLANS ARE NOT TO BE USED FOR ROUGHING-IN OF UTILITY SERVICES BUT ARE PROVIDED FOR DESIGN INFORMATION ONLY.

ELECTRICAL NOTES

ALL ELECTRICAL OUTLETS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, FOR FURTHER BUILDING ELECTRICAL REQUIREMENTS (TELEPHONE, CLOCK, SIGNS, EXHAUST FAN SWITCHING, ETC.) SEE OTHER PLANS.

ALL DIMENSIONS ARE TO BE IN INCHES TO 4'-0" AND ARE TO BE FROM COLUMN CENTERLINES AND/OR FINISHED WALLS. ELEVATIONS GIVEN ARE TO BE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. ALL 120V OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS TO BE RATED AT 20.0 AMPS.

ELECTRICIAN TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES AS REQUIRED BY THE SPECIFICATIONS. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAIN-LESS STEEL AND ARE TO BE FURNISHED BY THE ELECTRICIAN, AS WELL AS THE RECEPTACLE, UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. KITCHEN EQUIPMENT SUPPLIER TO FURNISH A GALVANIZED JUNCTION BOX IN THE FIXTURE CUTOUT TO RECEIVE THE RECEPTACLE, UNLESS OTHERWISE NOTED. ALL DISCONNECT SWITCHES REQUIRED ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICIAN AT TIME OF INSTALLATION.

ALL WORK TO BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES RELATING TO HOOK-UP, INSTALLATION AND WIRING OF EQUIPMENT.

ELECTRICAL
SYMBOLS & ABBREVIATIONS

- ....SINGLE CONVENIENCE OUTLET (SCO)
- ....DOUBLE CONVENIENCE OUTLET (DCO)
- ....QUAD CONVENIENCE OUTLET
- ....JUNCTION BOX (JB)
- ....HEATING ELEMENT OR POWER
- ....CONDUIT STUB-UP AS NOTED
- ....FLOOR RECEPTACLE AS NOTED
- ....SPECIAL OUTLET AS NOTED
- ....MOTOR OUTLET
- ....SOLENOID OR CONTROL CIRCUIT
- ....SINGLE POWER OUTLET AS NOTED
- ....CONVENIENCE OUTLET, 2 CIRCUIT 120/208V-1PH, 3 WIRE (OR AS NOTED)
- ....LIGHT INDICATION
- ....CONDUIT AS NOTED
- ....FIRE PULL CONDUIT
- ....PANEL BOARD
- ....DISCONNECT SWITCH
- Sw ...SWITCH AS NOTED
- Sp ...SWITCH AND PILOT LIGHT
- EL ...ELEVATION AFF
- AMP...AMPERES
- V .....VOLTS
- W .....WATTS
- ø .....PHASE
- AFF...ABOVE FINISHED FLOOR
- BFF...BELOW FINISHED FLOOR
- BTC...BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
- BTF...BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
- DFA...DOWN FROM ABOVE
- SU ....STUB UP AFF
- HP ....HORSEPOWER
- KW ....KILOWATTS
- KES...KITCHEN EQUIPMENT SUPPLIER
- GFI ...GROUND FAULT INDICATOR

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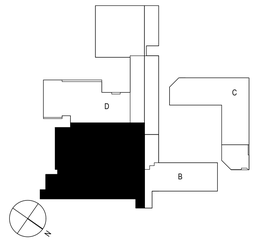
KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
FOODSERVICE ELECTRICAL REQUIREMENTS PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF111
100% CD'S SUBMITTAL

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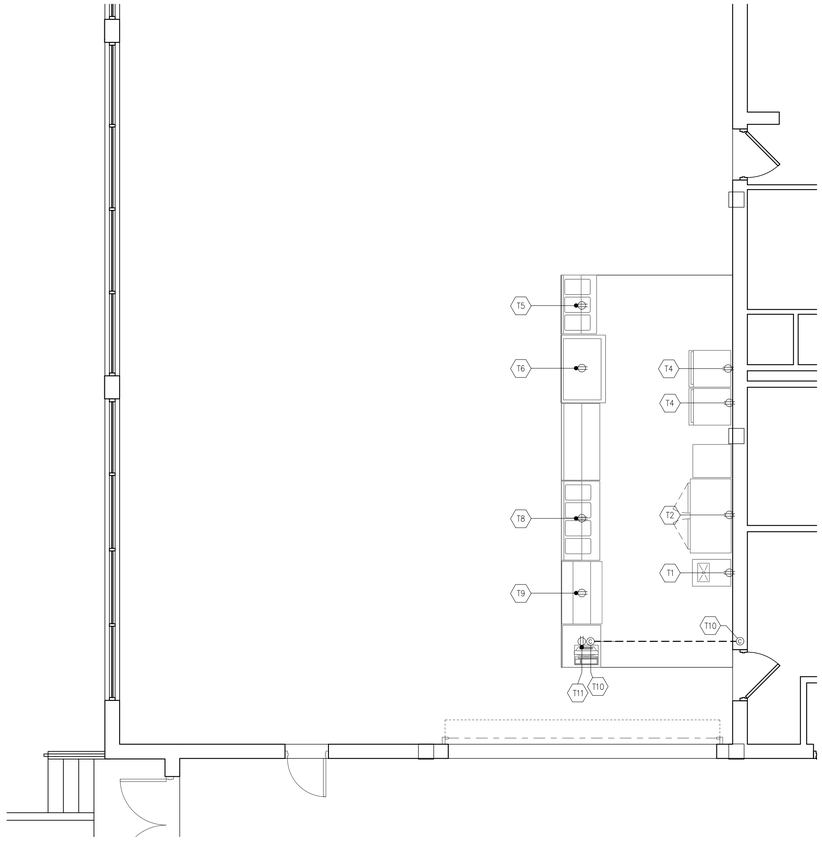


1 KITCHEN TEMPORARY SERVICE LINE ELECTRICAL REQUIREMENTS PLAN
QF112 SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

T1. 120 VOLT, 1 PHASE, 20.0 AMPS., EL. 18" A.F.F., D.C.O. FOR SELF CONTAINED HAND SINK

T2. 120 VOLT, 1 PHASE, 10.5 AMPS., EL. 18" A.F.F., D.C.O. FOR 2 DOOR REACH-IN REFRIGERATOR

T4. 120 VOLT, 1 PHASE, 13.8 AMPS., EL. 18" A.F.F., D.C.O. FOR MOBILE HEATED CABINET

T5. 208 VOLT, 1 PHASE, 15.0 AMPS., S.U. 4" A.F.F., S.C.O. FOR HOT WELL COUNTER.

T6. 120 VOLT, 1 PHASE, 9.3 AMPS., S.U. 4" A.F.F., D.C.O. FOR REFRIGERATED MERCHANDISER.

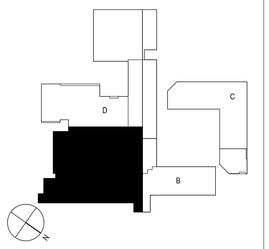
T8. 208 VOLT, 1 PHASE, 15.0 AMPS., S.U. 4" A.F.F., S.C.O. FOR HOT WELL COUNTER.

T9. 120 VOLT, 1 PHASE, 7.2 AMPS., S.U. 4" A.F.F., D.C.O. FOR MOBILE MILK CABINET.

T10. 1" CONDUIT, S.U. 4", EXTEND OPEN CONDUIT UNDER FLOOR, OVER TO WALL, AND UP TO A POINT (MNIMUM 6") ABOVE CEILING LINE FOR OWNER'S P.O.S. WIRING SYSTEM.

T11. 120 VOLT, 1 PHASE, 7.3 AMPS., S.U. 4" A.F.F. DEDICATED CIRCUIT FOR P.O.S. SYSTEM. NEMA 5-15P

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
KITCHEN TEMPORARY SERVICE LINE ELECTRICAL REQ. PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
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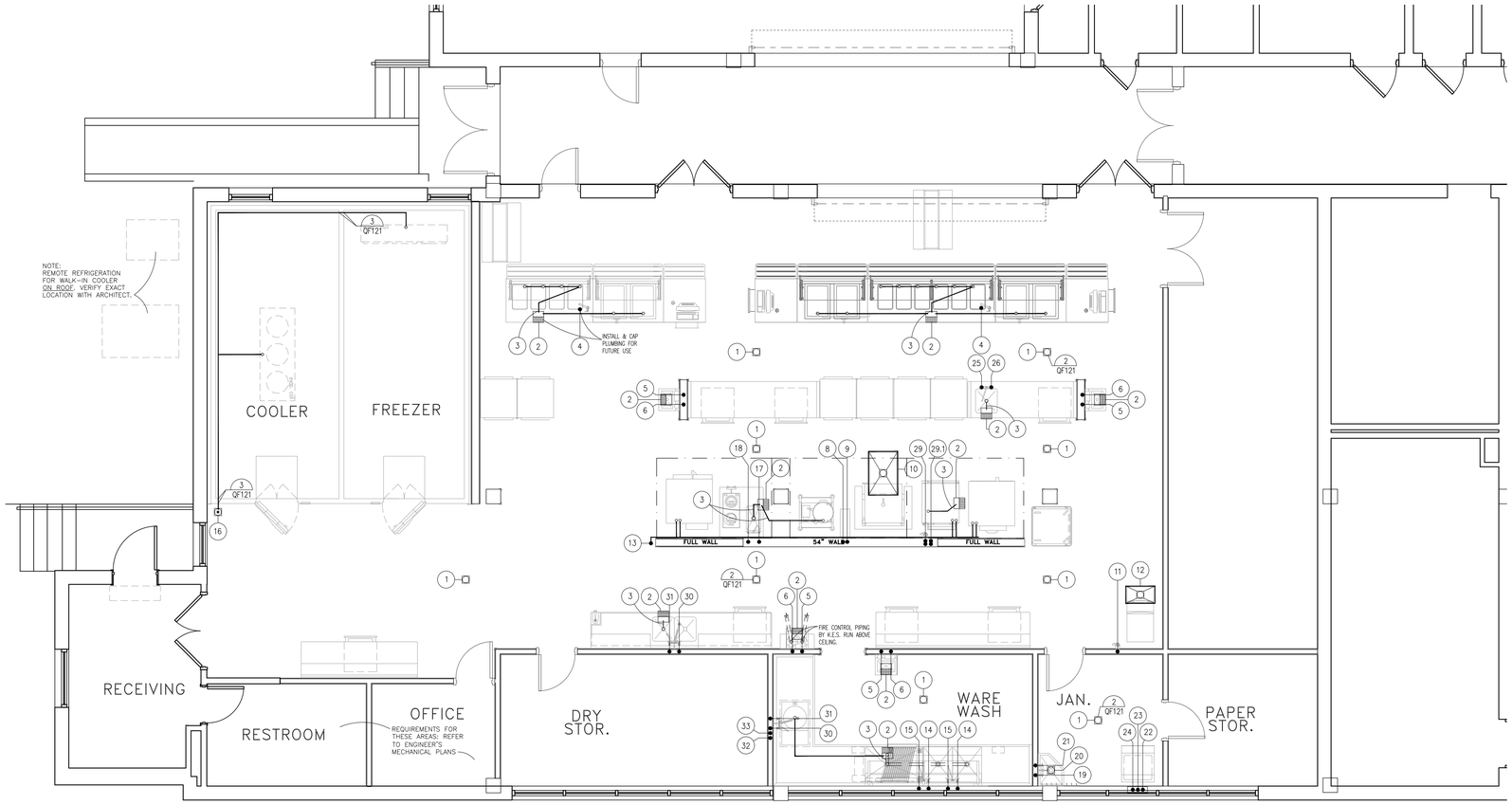


PLUMBING LEGEND

1. 3" FLOOR DRAIN, SET 1/2" B.F.F., SEE DETAIL 2/QF121.
2. 3" FLOOR SINK, SET FLUSH WITH FINISHED FLOOR TO RECEIVE WASTE FROM FIXTURES. FLOOR SINK TO HAVE HALF GRATE UNLESS SPECIFIED OTHERWISE.
3. INDIRECT WASTE BY PLUMBER.
4. 1/2" C.W. S.U. 4", B.T.C., ON HOT/COLD WELL FILL FAUCET.
5. 1/2" H.W., EL. 16", B.T.C. ON HAND SINK.
6. 1/2" C.W., EL. 16", B.T.C. ON HAND SINK.
7. SPARE NUMBER
8. 1/2" H.W., EL. 16" B.T.C., ON UTILITY FAUCET.
9. 1/2" C.W., EL. 16" B.T.C., ON UTILITY FAUCET.
10. 3 1/2" FLOOR DRAIN, SET 5" B.F.F., FOR FLOOR TROUGH. SEE DETAIL 4/QF121.
11. 1/2" C.W., EL. 60" A.F.F, D.F.A., B.T.C ON ICE MACHINE VIA WATER FILTER WITH SEPARATE SHUT OFF VALVE. (3/8" F.P.T. CONNECTION). PROVIDE REDUCED PRESSURE ZONE (RPZ) AT 48" A.F.F. REFER TO DIVISION 22 FOR REQUIREMENTS.
12. 3 1/2" FLOOR DRAIN, SET 2" B.F.F., FOR FLOOR TROUGH. SEE DETAIL 5/QF121.
- * 13. NATURAL GAS OF SUFFICIENT SIZE TO HANDLE 440,000 B.T.U., D.F.A. AT POINTS SHOWN (FROM LOOP ABOVE CEILING), SERVING THE FOLLOWING EQUIPMENT: (UTILIZE EXISTING UTILITIES, IF POSSIBLE.)

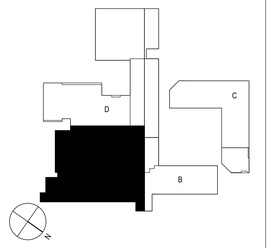
QTY.	DESCRIPTION	CONN.	BTU/HR.
■1	DBL. CONVECTION OVEN	3/4" (2)	60,000 BTU (EA)
■1	DBL. STEAMER	1/2" (2)	100,000 BTU (EA)
■1	DBL. CONVECTION OVEN	3/4" (2)	60,000 BTU (EA)

14. 3/4" H.W., EL. 16" A.F.F., FOR SINK FAUCET.
15. 3/4" C.W., EL. 16" A.F.F., FOR SINK FAUCET.
16. 3" FLOOR DRAIN WITH 4" HIGH FUNNEL, SET FLUSH WITH FINISHED FLOOR.
17. 1/2" H.W., EL. 16" A.F.F., FOR SINK FAUCET.
18. 1/2" C.W., EL. 16" A.F.F., FOR SINK FAUCET.
19. 1/2" H.W. EL. 30", B.T.C. ON MOP SINK FAUCET.
20. 3" FLOOR DRAIN, SET 2" A.F.F, FOR MOP SINK DRAIN.
21. 1/2" C.W. EL. 36", B.T.C. ON MOP SINK FAUCET.
22. 1/2" H.W., EL. 30", B.T.C. ON DOMESTIC CLOTHES WASHER, PROVIDE HOSE BIBB END IN RECESS BOX.
23. 1-1/2" DRAIN, EL. 30", B.T.C. ON DOMESTIC CLOTHES WASHER, CONNECTION FROM RECESS BOX.
24. 1/2" C.W., EL. 30", B.T.C. ON DOMESTIC CLOTHES WASHER, PROVIDE HOSE BIBB END IN RECESS BOX.
25. 1/2" H.W., S.U. 4" A.F.F., FOR SINK FAUCET.
26. 1/2" C.W., S.U. 4" A.F.F., FOR SINK FAUCET.
27. 1/2" C.W., EL. 16", B.T.C., ON HOT/COLD WELL FILL FAUCET.
28. SPARE
29. 3/4" C.W., EL. 16" & 36" A.F.F. B.T.C. ON DOUBLE STEAMER VIA WATER FILTER.
29.1. 3/4" C.W., EL. 16 & 36" A.F.F. B.T.C. ON DOUBLE STEAMER.
30. 1/2" H.W., EL. 16" A.F.F., FOR SINK FAUCET OR PRERINSE SPRAY ASSEMBLY.
31. 1/2" C.W., EL. 16" A.F.F., FOR SINK FAUCET OR PRERINSE SPRAY ASSEMBLY.
30. 3/4" H.W., EL. 16" A.F.F., FOR POT/PAN COLLECTOR.
31. 3/4" C.W., EL. 16" A.F.F., FOR POT/PAN COLLECTOR.

* PLUMBER TO SET GAS VALVES, FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, IN THE GAS LINES AS PART OF THE FUEL SHUT OFFS FOR THE FIRE SUPPRESSION SYSTEM.

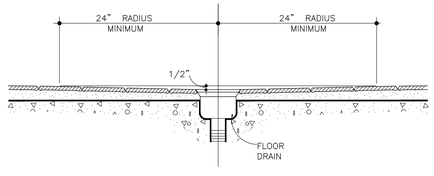
■ PLUMBER TO MAKE FINAL CONNECTION FROM THE MAIN GAS LINE TO EACH PIECE OF EQUIPMENT WITH FLEXIBLE GAS DISCONNECT HOSE PROVIDED BY THE KITCHEN EQUIPMENT SUPPLIER.

KEY PLAN

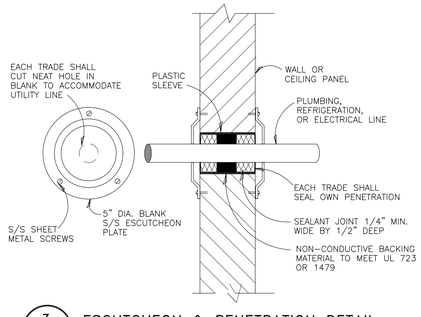


#	DATE	CHANGE DESCRIPTION

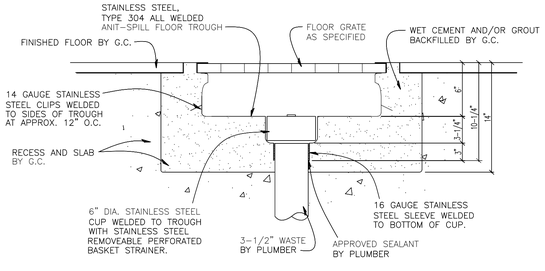
1 FOODSERVICE PLUMBING REQUIRMENTS PLAN
QF121 SCALE: 1/4" = 1'-0"



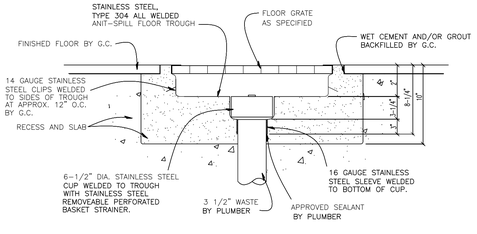
2 SECTION THRU TYPICAL FLOOR DRAIN
QF121 SCALE: NONE



3 ESCUTCHEON & PENETRATION DETAIL
QF121 SCALE: NONE



4 SECTION THRU FLOOR TROUGH
QF121 SCALE: NONE



5 SECTION THRU FLOOR TROUGH
QF121 SCALE: NONE

NOTE:
THESE PLANS ARE NOT TO BE USED FOR ROUGHING-IN OF UTILITY SERVICES BUT ARE PROVIDED FOR DESIGN INFORMATION ONLY.

NOTE:
UNLESS OTHERWISE SPECIFIED, ALL WATER SUPPLY AND DRAIN LINES FOR ALL KITCHEN EQUIPMENT ARE TO BE SOLDERED COPPER PIPE. ALL EXPOSED WATER SUPPLY AND DRAIN LINES ARE TO BE PAINTED WITH CHROME OR ALUMINUM, ALL-WEATHER PAINT BY THE PLUMBING CONTRACTOR.

PLUMBING NOTES

ALL PLUMBING OUTLETS AND REQUIREMENTS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED BY KITCHEN EQUIPMENT SUPPLIER. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS, SEE OTHER MECHANICAL PLANS.

ALL DIMENSIONS ARE TO BE FROM COLUMN CENTERLINES AND/OR FINISHED WALLS AND ARE IN INCHES TO 4'-0". ELEVATIONS GIVEN ARE FROM FINISHED FLOOR. ALL FLOOR DRAINS TO SET 1/2" BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. DO NOT SLOPE FLOORS SO CLOSE TO DRAINS AS TO CREATE "PITS" OR "DIPS" IN FLOOR. MINIMUM RADIUS OF SLOPE TO BE 24" FROM CENTERLINE OF DRAIN.

PLUMBER TO CONNECT ALL WATER LINES, GAS LINES, WASTE LINES, ETC. TO FULLY CONNECT ALL EQUIPMENT AND RUN CONDENSATE LINES FROM UNITS TO DRAINS AND THESE LINES TO BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. PLUMBER TO PROVIDE GATE VALVES ON ALL WATER AND GAS LINES, VALVES, CUT-OFFS, TRAPS, HYDROSTATIC SHOCK ELIMINATORS, PRESSURE REGULATORS AND MATERIAL NECESSARY TO CONNECT ALL LINES, UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. FAUCETS, DRAIN OUTLET FITTINGS IN FIXTURES AND SPECIALITY ITEMS ARE TO BE FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AS OUTLINED ON THE ITEM SPECIFICATIONS. ALL WORK TO BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES RELATING TO INSTALLATION AND HOOK-UP OF EQUIPMENT.

UNLESS OTHERWISE NOTED, ALL MANUFACTURED AND FABRICATED ITEMS HAVING INTERNAL OR EXTERNAL WATER PIPING ARE TO BE COPPER WITH WELDED CONNECTIONS OR CONNECTIONS USING LEAD FREE SOLDER WITH THE EXCEPTION OF ICE BINS WHICH ARE TO BE PVC. ALL EXPOSED SUPPLY AND DRAIN LINES UNLESS SPECIFIED OTHERWISE ARE TO BE PAINTED WITH CHROME OR ALUMINUM ALL-WEATHER PAINT.

MECHANICAL
SYMBOLS & ABBREVIATIONS

- HUB DRAIN AS NOTED
- FLOOR DRAIN-4" HIGH FUNNEL
- FLOOR DRAIN AS NOTED (FD)
- FLOOR SINK AS NOTED (FS)
- RIGHT ANGLE FLOOR DRAIN AS NOTED
- MIXING HOSE BIBB, SINGLE OUTLET
- HOSE BIBB, SINGLE OUTLET
- HOT/COLD WATER AS NOTED

DR	DRAIN
CW	COLD WATER
HW	HOT WATER
HD	HUB DRAIN SET 1" AFF
EL	ELEVATION AFF
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
SU	STUB UP AFF
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
SS	STEAM SUPPLY
SR	STEAM RETURN
BHP	BOILER HORSEPOWER
PPH	POUNDS PER HOUR
PSI	POUNDS PER SQUARE INCH
DFA	DOWN FROM ABOVE
BTC	BRANCH TO CONNECTION
	RETURN AIR DUCT CONNECTION
	EXHAUST DUCT CONNECTION
SP	STATIC PRESSURE
WG	INCHES OF WATER GAUGE
CFM	CUBIC FEET PER MINUTE
FPM	FEET PER MINUTE (VELOCITY)
KES	KITCHEN EQUIPMENT SUPPLIER

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE
FOODSERVICE PLUMBING REQUIREMENTS PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF121
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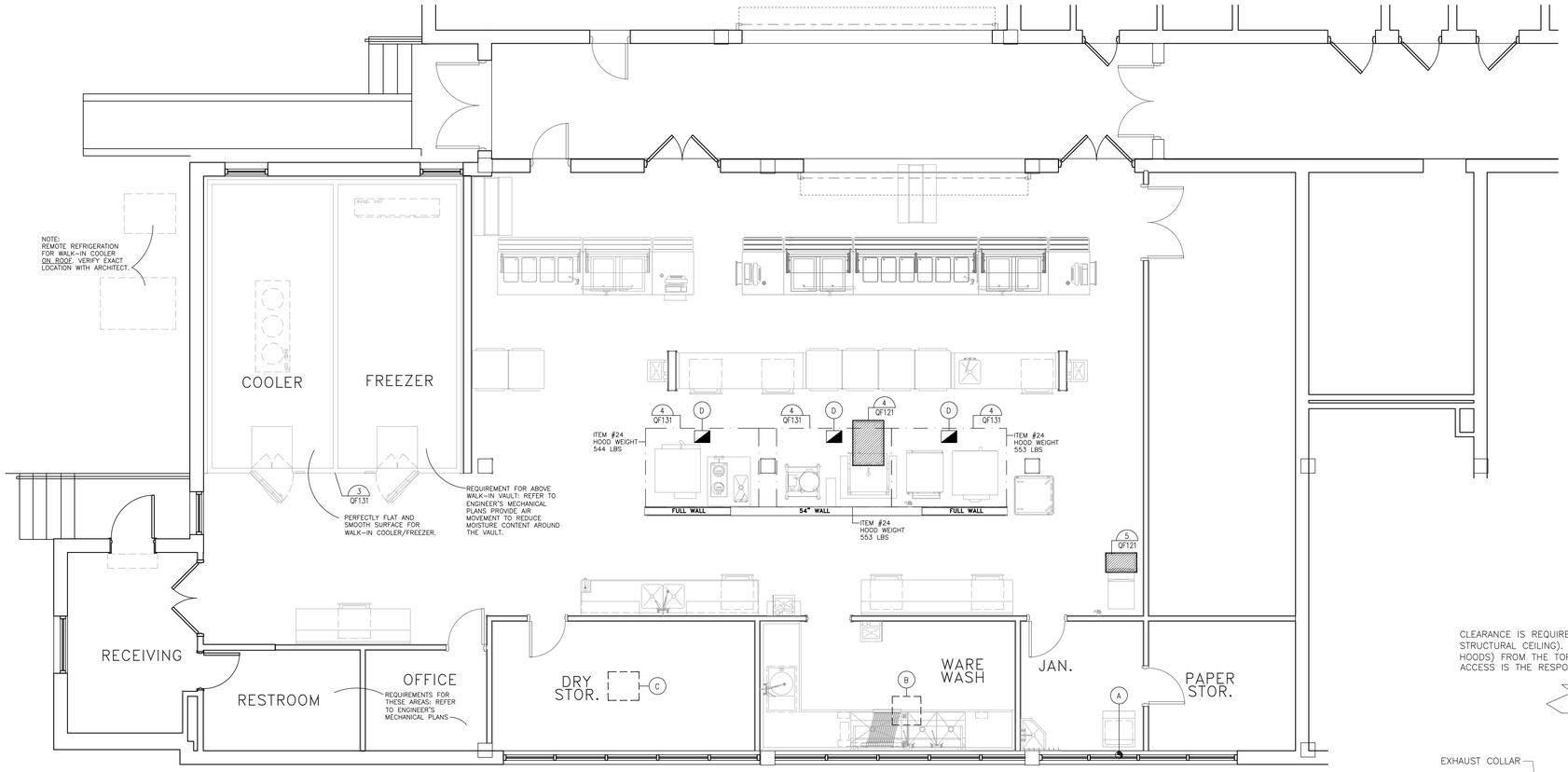


1 FOODSERVICE VENTILATION AND FLOOR DEPRESSION REQUIRMENTS PLAN
QF131 SCALE: 1/4" = 1'-0"

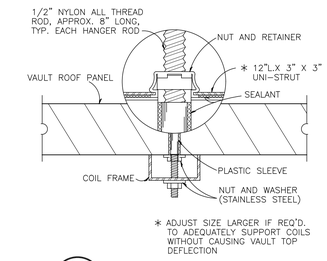
VENTILATION LEGEND

A. 4" GRAVITY VENT FOR DOMESTIC CLOTHES DRYER.

B. EXHAUST 500 C.F.M. FREE AIR FROM THIS AREA THRU HVAC CONTRACT FURNISHED AND INSTALLED STAINLESS STEEL OR ALUMINUM CEILING GRILL.

C. EXHAUST 300 C.F.M. FREE AIR FROM DRY STORAGE ROOM THRU HVAC CONTRACTOR FURNISHED AND INSTALLED STAINLESS STEEL OR ALUMINUM CEILING GRILLE, IF SPACE NOT CONDITIONED. (2 REQUIRED)

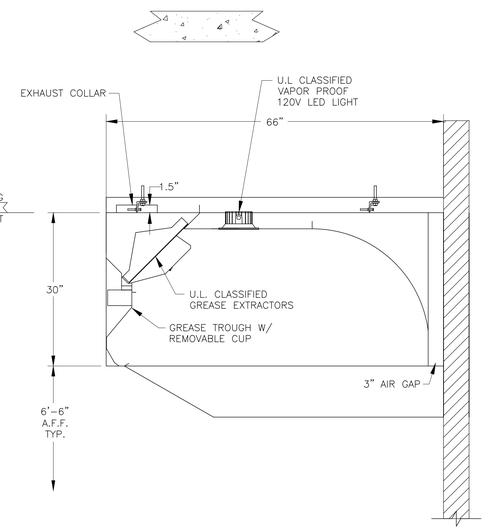
D. 10" X 13" EXHAUST DUCT MOVING 1400 CFM AT 1.00" S.P. (3 REQUIRED)



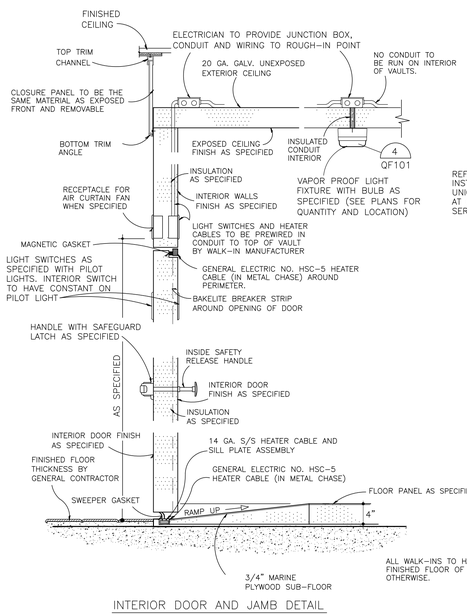
* ADJUST SIZE LARGER IF REQ'D. TO ADEQUATELY SUPPORT COILS WITHOUT CAUSING VAULT TOP DEFLECTION

2 COIL HANGER ROD DETAIL
QF131 SCALE: NONE

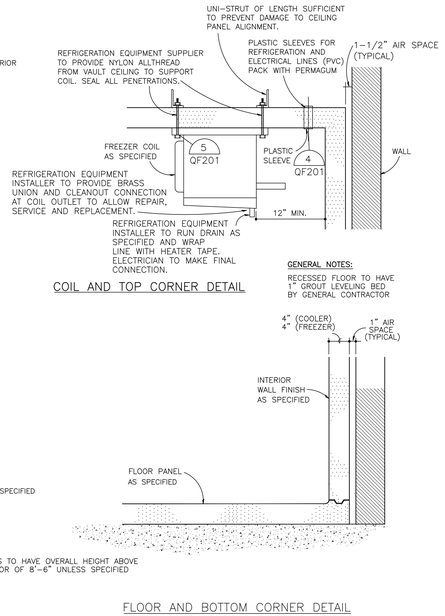
CLEARANCE IS REQUIRED TO CLOSEST OVERHEAD OBSTRUCTION (OR STRUCTURAL CEILING). AVTEC REQUIRES 10" (18" FOR WATER WASH HOODS) FROM THE TOP OF THE VENTILATOR DUCT COLLAR CONNECTION, ACCESS IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR.



4 TYPICAL SECTION THRU EXHAUST VENTILATOR
QF131 SCALE: NONE



INTERIOR DOOR AND JAMB DETAIL



FLOOR AND BOTTOM CORNER DETAIL

COIL AND TOP CORNER DETAIL

3 WALK-IN COOLER/FREEZER DETAILS
QF131 SCALE: NONE

THE MECHANICAL DATA REPRESENTED REFERENCES EQUIPMENT THAT ARE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD NFPA 96 "VAPOR REMOVAL FROM COOKING EQUIPMENT", THE NATIONAL SANITATION FOUNDATION STANDARD #2 "FOOD SERVICE EQUIPMENT", AND UNDERWRITER'S LABORATORIES STANDARD U.L. 710 "EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT" U.L. LISTED."

SPECIAL NOTE TO GENERAL CONTRACTOR AND ANY SUBCONTRACTORS FOR QUARRY TILE OR CONCRETE WEARING FLOORS IN WALK-IN VAULTS:

THE SHEET METAL PANEL FACINGS OF VAULTS ARE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY HYDRATION OF CONCRETE TYPE MATERIALS. THEREFORE, IT IS ABSOLUTELY NECESSARY THAT EACH WALK-IN ROOM BE PROPERLY VENTILATED AND ENTRANCE DOORS LEFT OPEN (OR OFF) UNTIL FLOORS ARE CURED. ALSO NOTE THAT SPECIAL PRECAUTIONS MUST BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC ACID FUMES HAVE ON ALUMINUM AND STAINLESS STEEL.

NOTE:
THESE PLANS ARE NOT TO BE USED FOR ROUGHING-IN OF UTILITY SERVICES BUT ARE PROVIDED FOR DESIGN INFORMATION ONLY.

VENTILATION
SYMBOLS & ABBREVIATIONS

	RETURN AIR DUCT CONNECTION
	EXHAUST DUCT CONNECTION
	GRAVITY EXHAUST CONNECTION
SP	STATIC PRESSURE
WG	INCHES OF WATER GAUGE
CFM	CUBIC FEET OF AIR PER MINUTE
FPM	FEET PER MINUTE (VELOCITY)
KES	KITCHEN EQUIPMENT SUPPLIER

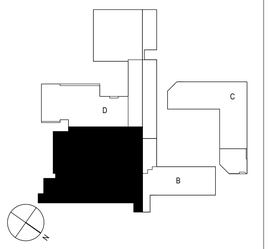
VENTILATION NOTES

UNLESS OTHER PROVISIONS ARE MADE AND/OR INDICATED ON PLANS, VENTILATING HVAC CONTRACTOR TO PROVIDE OUTSIDE FILTERED MAKE-UP AIR FOR HOOD EXHAUST SYSTEM. THE TOTAL KITCHEN MAKE-UP AIR SYSTEM SHALL HAVE A SUFFICIENT CAPACITY TO MAKE UP 100% OF THE AIR BEING EXHAUSTED AND SHALL BE BALANCED TO MAKE-UP 90% OF THAT AIR. TEMPERED MAKE-UP AIR TO BE RETURNED AT THE HOOD LOCATION SHALL BE FROM 45% TO 80% AS INDICATED ON THE PLANS.

EXHAUST FANS, DUCTWORK ABOVE FINISHED CEILING AND MAKE-UP AIR SYSTEM TO BE BY THE VENTILATING HVAC CONTRACTOR. EXHAUST VENTILATORS AND ANY CONNECTING DUCTWORK FROM VENTILATORS, FIXTURES AND EQUIPMENT TO FINISHED CEILING TO BE BY THE KITCHEN EQUIPMENT SUPPLIER.

GENERAL CONTRACTOR TO CUT OR PROVIDE ANY HOLES THROUGH CEILING, ROOFS AND WALLS FOR DUCTS, CONDUITS, REFRIGERATION LINE ACCESS, ETC., IN ACCORDANCE WITH LOCAL SITE FIRE AND BUILDING CODES AND IN ACCORDANCE WITH DUCT SIZES SPECIFIED. GENERAL CONTRACTOR ALSO TO PROVIDE ALL DUCT FIRE SEPARATIONS, ENCLOSURES, WRAPPINGS, ETC., AS MAY BE REQUIRED BY LOCAL BUILDING AND FIRE CODES.

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE
FOODSERVICE VENT. & FLOOR DEP. REQUIREMENTS PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF131
100% CD'S SUBMITTAL

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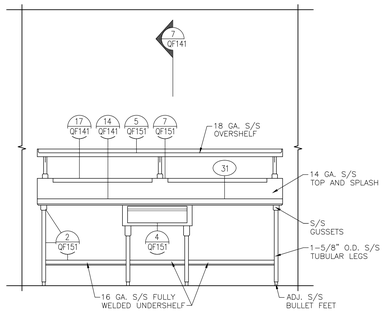

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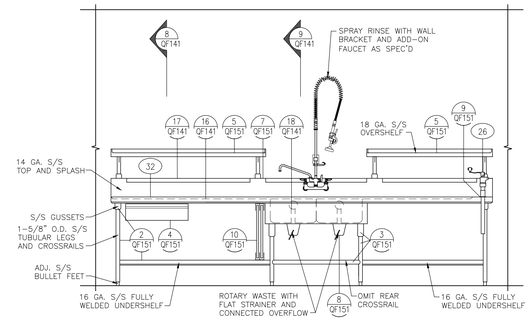
QF141 SCALE: 1/2"=1'-0"



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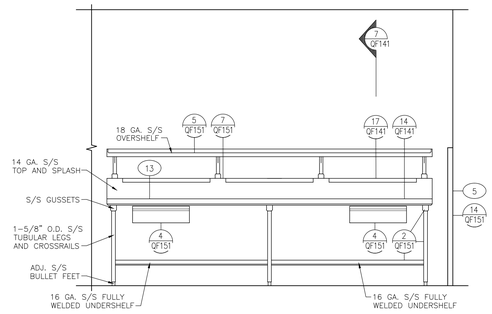

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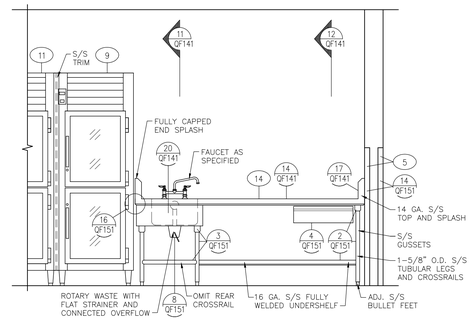

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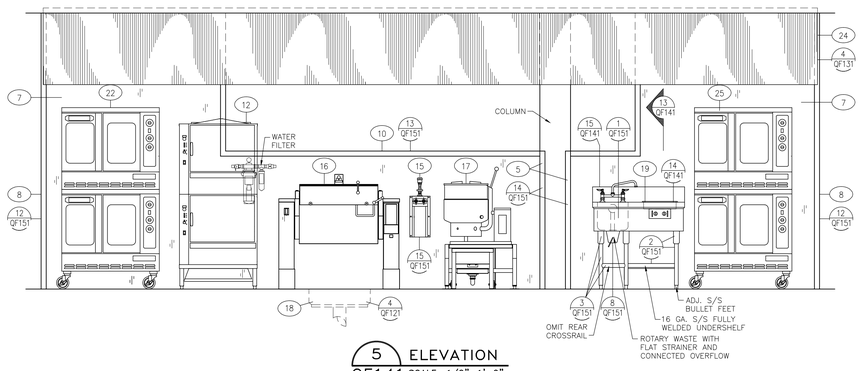

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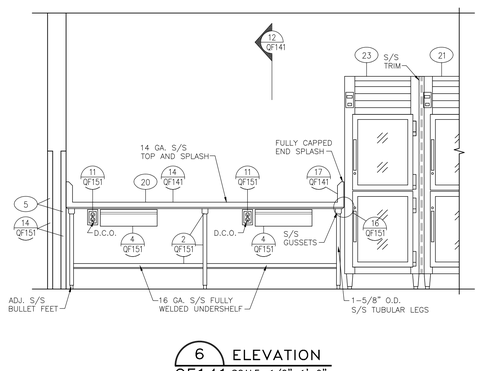

6 ELEVATION
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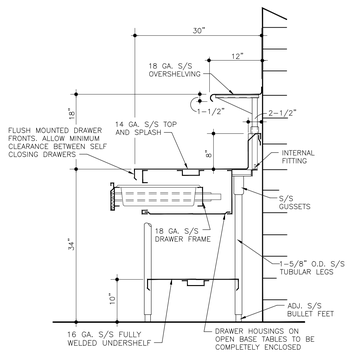

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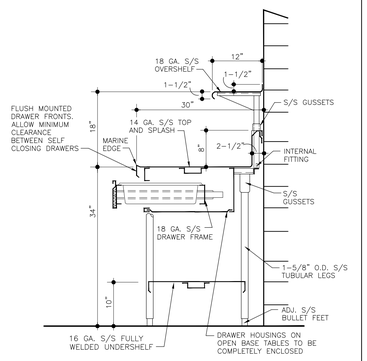

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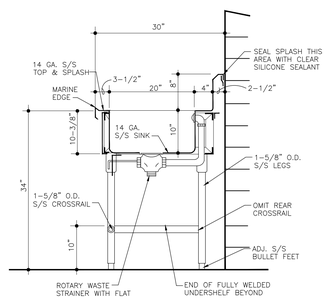

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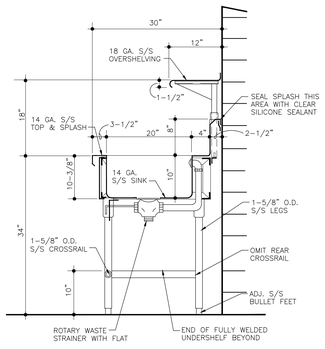

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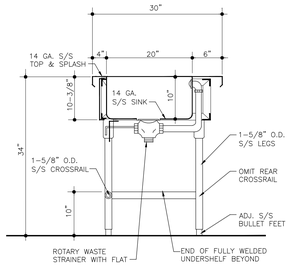

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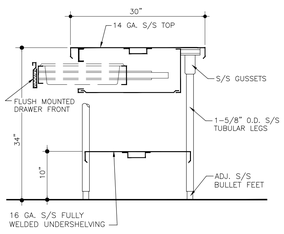

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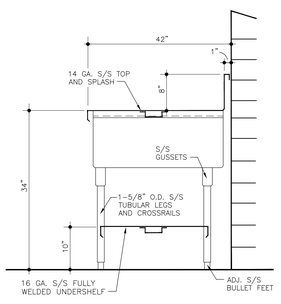

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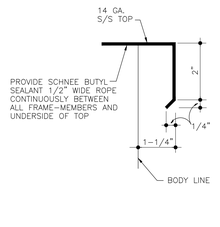

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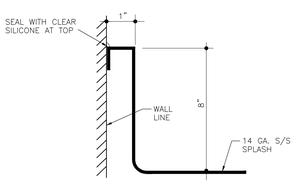

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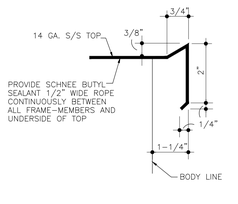

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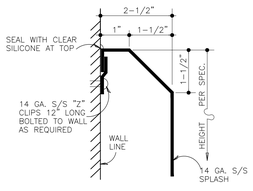

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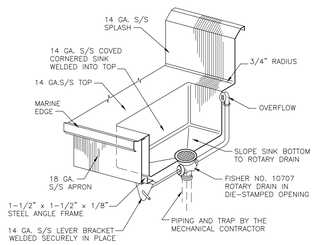

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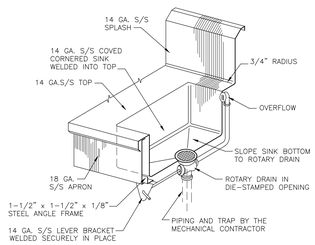

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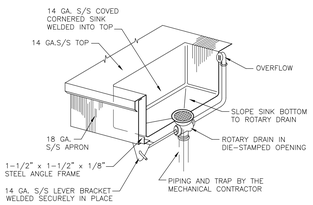

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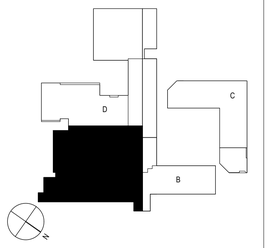
KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
FOODSERVICE ELEVATIONS, SECTIONS AND DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF141
100% CD'S SUBMITTAL

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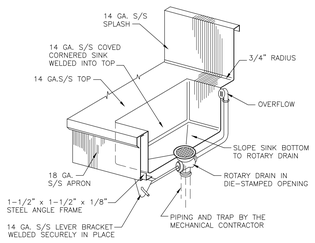

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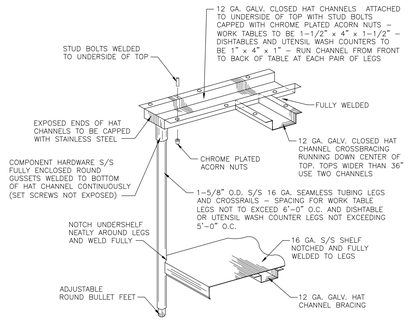

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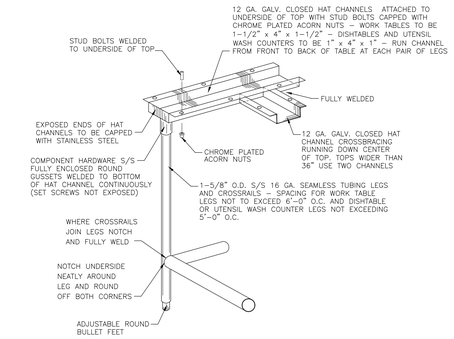

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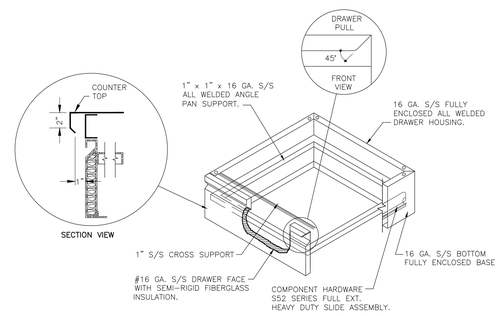

4 TYPICAL DRAWER DETAIL
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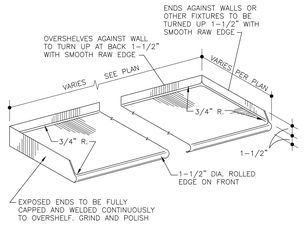

5 OVERSHELF DETAIL
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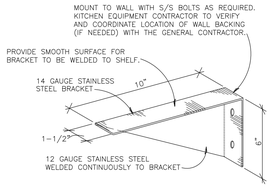

6 S/S SHELF BRACKET
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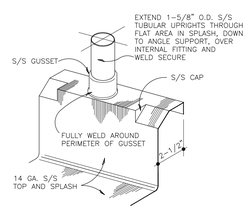

7 SPLASH DETAIL AT UPRIGHT
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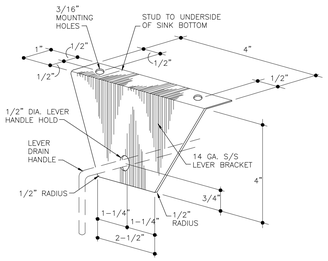

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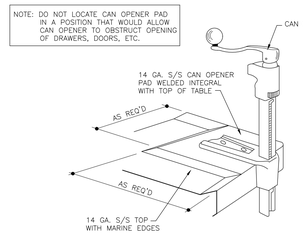

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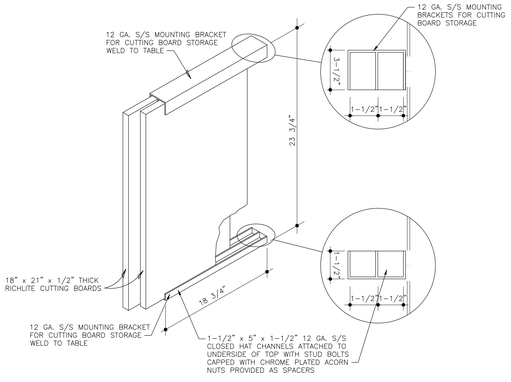

10 CUTTING BOARD BRACKET DETAIL
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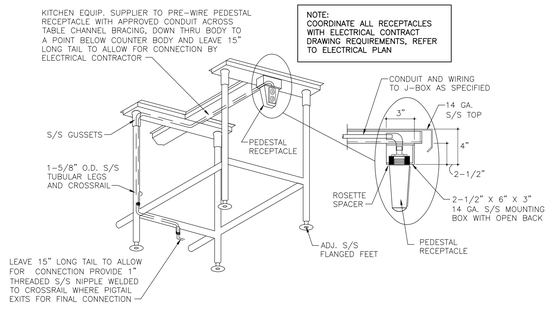

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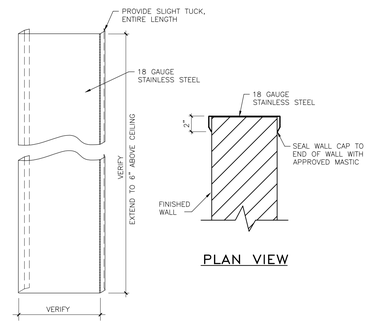

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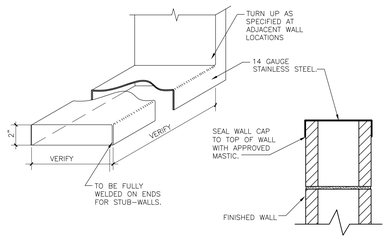

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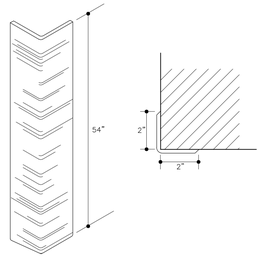

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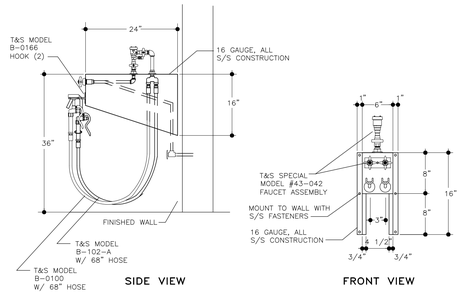

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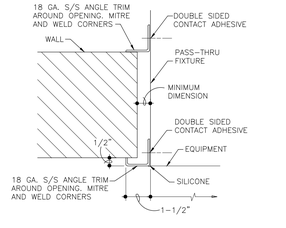

16 PASS-THRU TRIM DETAIL
QF151 SCALE: NONE

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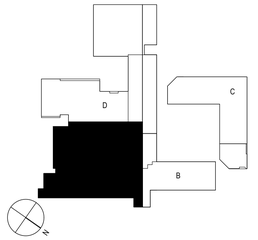
KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE
FOODSERVICE DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

12.02.2025
R22301.01
QF151
100% CD'S SUBMITTAL

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PLUMBING GENERAL NOTES:

A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS.
B. ALL WORK SHALL COMPLY WITH THE DISD TECHNICAL DESIGN GUIDELINES. COORDINATE WITH /OWNER FOR ACCESS TO ANY SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION.
C. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS DATED 06/25/2012. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
D. PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
E. CONTRACTOR SHALL COORDINATE PLUMBING ROUGH-IN WITH ARCHITECTURAL DRAWINGS TO PROVIDE EXACT PLUMBING LOCATION FOR FIXTURES.
F. COORDINATE EXACT LOCATION OF ALL WATER AND DRAIN CONNECTIONS FOR EQUIPMENT PROVIDED BY OTHERS.
G. RUN ALL WATER LINES LEVEL.
H. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
I. SUPPORT CAST IRON SANITARY PIPING NOT IN EARTH, ON 5'-0" CENTERS, ALL STEEL PIPING ON 10'-0" CENTERS AND COPPER PIPING ON 8'-0" CENTERS.
J. THIS CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
K. ALL FIXTURES TO BE EQUIPPED WITH STOP VALVE IN ACCESSIBLE LOCATION.
L. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVE AT EACH BRANCH LINE CONNECTING TO THE MAIN. PROVIDE BRASS VALVE TAGS WITH DOCUMENTATION IN CLOSEOUT DOCUMENTS.
M. PROVIDE A SHUT-OFF VALVE ON THE TOP OF EVERY WATER DOWN-FEED PIPE PER IPC 606.1.
N. MAIN WATER SHUT-OFFS SHALL BE ACCESSIBLE.
O. PROVIDE ACCESSIBLE CLEANOUTS AT NOT MORE THAN 50 FEET APART IN HORIZONTAL SANITARY DRAINAGE LINES 4" SIZE OR LESS, AND NOT MORE THAN 100 FEET APART FOR LARGER PIPES.
P. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL SANITARY STACKS AND OTHER PLACES AS REQUIRED BY CODE.
Q. WATER HEATER SHALL HAVE BOTH WATER AND ELECTRICAL SHUT-OFFS AT EASILY ACCESSIBLE LOCATIONS.
R. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL ABANDONED PLUMBING LINES.
S. PLUMBING CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING. COORDINATE WITH BUILDING MANAGEMENT FOR AFTER-HOURS ACCESS TO SPACE. PRIOR TO CORE DRILLING ANY EXISTING FLOORS, OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER.
T. REFER TO PLUMBING RISER DIAGRAMS FOR PIPING SIZES NOT SHOWN ON PLAN.
U. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD 'PROVIDE' IS USED, IT SHALL MEAN 'FURNISH AND INSTALL, COMPLETE AND READY TO USE.'
V. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS, SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.
W. REFER TO GEOTECHNICAL REPORT AND STRUCTURAL DETAILS FOR FINAL REQUIREMENTS ON SUBSOIL PIPE SIZING. THIS INCLUDES, BUT IS NOT LIMITED TO, THE SIZE AND LOCATION OF ALL SUBSOIL PIPING, AND THE SIZE (GPM) OF THE SUBSOIL PUMPS.
X. SINCE SANITARY AND DOMESTIC WATER CONNECTION POINTS ARE NOT KNOWN, UTILIZE CONCEPT ABOVE FOR MAGNITUDE ONLY. DO NOT INSTALL ANY OF THIS WORK UNTIL TIE-INS AND INVERTS ARE FIELD VERIFIED.
Y. CONTRACTOR SHALL CAMERA SCOPE ALL EXISTING UNDERGROUND OR INACCESSIBLE SANITARY SEWER AND STORM PIPING PRIOR TO THE START OF CONSTRUCTION. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY SPACES THAT MIGHT BE REQUIRED FOR THE SCOPE INSPECTION. CONTRACTOR SHALL SUBMIT THE CAMERA SCOPING REPORT TO THE ARCHITECT, OWNER, AND ENGINEER PRIOR TO THE START OF ANY WORK. REPORT SHALL INCLUDE A SHOP DRAWING OR DETAILED SKETCH WITH LOCATIONS OF ANY INCORRECT PIPE SLOPES, PIPE BLOCKAGES, BROKEN PIPES, RUSTING PIPES, DAMAGED PIPES, GENERAL SUMMARY OF PIPE TYPES, ETC.
Z. CONTRACTOR SHALL CAMERA SCOPE ALL EXISTING SANITARY SEWER AND STORM PIPING PRIOR TO THE START OF CONSTRUCTION. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY SPACES THAT MIGHT BE REQUIRED FOR THE SCOPE INSPECTION. CONTRACTOR SHALL SUBMIT THE CAMERA SCOPING REPORT TO THE ARCHITECT, OWNER, AND ENGINEER PRIOR TO THE START OF ANY WORK. REPORT SHALL INCLUDE A SHOP DRAWING OR DETAILED SKETCH WITH LOCATIONS OF ANY INCORRECT PIPE SLOPES, PIPE BLOCKAGES, BROKEN PIPES, RUSTING PIPES, DAMAGED PIPES, GENERAL SUMMARY OF PIPE TYPES, ETC.

FIRE PROTECTION PERFORMANCE SPECIFICATION:

A. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM AS REQUIRED FOR THE NEW LAYOUT INCLUDING RELOCATING PIPING TO CLEAR NEW DUCTWORK, ADDING NEW HEADS, RELOCATING EXISTING HEADS, AND LEAVING CERTAIN EXISTING HEADS IN PLACE. THE SPRINKLER DESIGN SHALL COMPLY WITH NFPA 13, THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY.

B. EXISTING SPRINKLER HEADS TO BE RELOCATED MAY BE REUSED. EXISTING PIPING WHICH IS REMOVED IN THE MODIFICATION WORK SHALL NOT BE REUSED. NEW SPRINKLER PIPING SHALL BE ROUTED AS REQUIRED TO CLEAR NEW DUCTWORK, EXISTING DUCTWORK TO REMAIN, LIGHT FIXTURES, STRUCTURAL INTERFERENCES, ETC.

C. THE NEW SPRINKLER HEADS SHALL MATCH EXISTING SPRINKLER HEADS.

D. IN ALL GYP. BOARD CEILING AREA, PROVIDE CONCEALED SPRINKLER HEADS WITH CAPS TO BE FACTORY PAINTED TO MATCH CEILING. ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL BE LOCATED IN CENTER OF TILE AND ALIGNED WITH LIGHT FIXTURES.

E. SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CALCULATIONS AND SPRINKLER HEAD LOCATIONS FOR ARCHITECT TO REVIEW PRIOR TO ANY INSTALLATION. NO EXCEPTION TAKEN.

F. ALL SPRINKLER HEADS IN EXPOSED CEILING SHALL BE TURNED TO THE UPRIGHT POSITION AND REPLACE HEADS IF REQUIRED.

G. ALL PIPING SHALL BE U.S. DOMESTIC ONLY. FOREIGN MANUFACTURED PIPING WILL NOT BE ACCEPTED.

H. ALL PIPING SHALL BE SCHEDULE 40. SCHEDULE 10 WILL NOT BE ACCEPTED.

I. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE SUPPRESSION SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

PLUMBING DESIGN CRITERIA		
		NOTES
RAINFALL RATE	6" / HR	
MINIMUM INCOMING WATER TEMPERATURE	50°F	
STARTING INVERT ELEVATION	24" BFF	TYPICAL UNLESS NOTED OTHERWISE
ENDING INVERT ELEVATION	REFER TO UNDERFLOOR PLANS	

PLUMBING PIPING, FITTINGS, & JOINTS SCHEDULE

APPLICATION	MATERIAL	FITTINGS	JOINTS
DOMESTIC			
UNDERSLAB (4" AND SMALLER)	COPPER	SOLDER	BRAZED
	PVC		
ABOVEGROUND			
2" AND SMALLER	COPPER	FLANGES	BRAZED
		SOLDER	SOLDER
		*PRESS FITTINGS ACCEPTED	
	STAINLESS STEEL	STAINLESS STEEL	WELDED
LARGER THAN 2"	COPPER	FLANGES	BRAZED
		SOLDER	SOLDER
	STAINLESS STEEL	STAINLESS STEEL	WELDED
NATURAL GAS			
UNDERGROUND	PE PIPE	HEAT FUSION	
		MECHANICAL COUPLINGS	
	STEEL PIPE	WROUGHT-STEEL	WELDED
		MECHANICAL COUPLINGS	
		PRESS FITTINGS NOT ACCEPTED	
ABOVEGROUND			
2" AND SMALLER	STEEL	MALLEABLE IRON	THREADED
LARGER THAN 2"	STEEL	WROUGHT STEEL IRON	WELDED
SANITARY WASTE & VENT			
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	STANDARD COUPLINGS AND HUBLESS-COUPLING JOINTS
EXPOSED PIPING IN KITCHEN	DWV COPPER	WROUGHT COPPER	BRAZED
STORM			
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	SHIELDED STAINLESS STEEL COUPLINGS & FITTINGS
MAKEUP-WATER PIPING			
	COPPER	WROUGHT COPPER	SOLDERED
CONDENSATE			
	CPVC		
LAB GASES			
	COPPER	WROUGHT COPPER	BRAZED

1. *SHARKBITE IS NOT ACCEPTED. ACCEPTABLE PRESS FITTINGS MANUFACTURER ARE: NIBCO, VIEGA-PROPRESS, VIEGA MEGAPRESS, PARKER-ZOOMLOCK (REFRIGERANT PIPING ONLY).
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. NOT ALL PIPE TYPES MAY BE USED. REFER TO FLOOR PLANS FOR FURTHER DETAILS.
4. ALL PIPING SHALL BE U.S. DOMESTIC ONLY. FOREIGN MANUFACTURED PIPING WILL NOT BE ACCEPTED.

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
SAN	SANITARY SEWER
ST	STORM DRAIN
RD	ROOF DRAIN
OFD	OVERFLOW DRAIN
V	VENT
DCW	DOMESTIC COLD WATER
RO	REVERSE OSMOSIS
DI	DEIONIZED WATER
SCW	SOFT COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
CD	CONDENSATE DRAIN PIPING
F	FIRE PROTECTION PIPING
	PIPING DOWN
	PIPING UP -OR- PIPING UP & DOWN
CO	CLEANOUT (CO) OR WALL CLEANOUT (WCO)
FCO	FLOOR (FCO) OR GRADE (GCO) CLEANOUT
	CAP ON END OF PIPE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	ISOLATION / SHUT-OFF VALVE (SOV) / GAS COCK
	UNION
	BALANCING VALVE / CIRCUIT SETTER
	GAS REGULATOR
	PRESSURE REDUCING VALVE (PRV)
	CHECK VALVE
	CONNECT TO EXISTING
	*NOTE: NOT ALL SYMBOLS MAY BE USED IN PLAN.

WATER HAMMER ARRESTOR SCHEDULE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	½	1-11
B	¾"	12-32
C	1"	33-60
D	1¼"	61-113
E	1½"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATHTUB	2	2

NOTES:
PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, OR WATTS WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

PLUMBING INSULATION SCHEDULE

APPLICATION	INSULATION TYPE	INSULATION THICKNESS	INSULATION FINISH (OR PIPE FINISH IF NO INSULATION PRESENT) INDOOR CONCEALED	INDOOR EXPOSED (C)	OUTDOOR (G)
DOMESTIC COLD WATER PIPING (F)					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1/2"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1"	8F	5F	NA
OUTDOOR: 2" & SMALLER	6i	2"	NA	NA	3F
OUTDOOR: 2-1/2" - 6"	6i	2"	NA	NA	3F
DOMESTIC HOT WATER PIPING					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1-1/2"	8F	5F	NA
BELOW GRADE: ALL SIZES	4i	1-1/2"	NA	NA	NA
OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
STORM AND STORM OVERFLOW PIPING					
INDOOR: ALL SIZES	6i	1"	8F	5F	NA
OUTDOOR: ALL SIZES	NA	NA	NA	NA	NA
INDOOR: ROOF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA
SANITARY SEWER AND GREASE WASTE PIPING					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
WITH HEAT TRACE - INDOOR: ALL SIZES	6i	1-1/2"	8F	5F	NA
WITH HEAT TRACE - OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
ABOVE GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
ABOVE GRADE: 1ST 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP (E)	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
COLD CONDENSATE DRAIN LINES					
INDOOR OR OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	6i (A)	1/2"	8F	5F	9F
VENT PIPING					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
NATURAL GAS					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C), ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	9F

GENERAL NOTES (APPLIES TO ALL):
- NOT ALL PIPE TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

NOTES:
A. CELLULAR FOAM MAY BE SUBSTITUTED
B. USE 9F FINISH FOR CELLULAR FOAM
C. THIS INCLUDES BUT IS NOT LIMITED TO, PIPING EXPOSED IN MECHANICAL ROOMS, PIPING IN OPEN CEILINGS EXPOSED TO THE PUBLIC OR PRIVATE PERSONNEL, OR EXPOSED PIPING DOWN KITCHENS WALLS, ETC.
D. INSULATION ON INDOOR EXPOSED SANITARY PIPING IS FOR AESTHETIC APPEAL ONLY AND ONLY PROVIDED AT THE DIRECTION OF THE ARCHITECT IN VERY LIMITED LOCATIONS. THE CONTRACTOR SHALL ONLY PROVIDE THIS INSULATION WHERE IT IS SPECIFICALLY CALLED OUT ON THE PLUMBING FLOOR PLANS. IF NOT INDICATED ON THE PLUMBING FLOOR PLANS, THE CONTRACTOR SHALL TREAT INDOOR EXPOSED SANITARY PIPING THE SAME WAY INDOOR CONCEALED SANITARY PIPING IS TREATED IN THIS SCHEDULE. REFER TO THE PLUMBING FLOOR PLANS FOR LOCATIONS. REFER TO THE ARCHITECTURAL PLANS FOR COLOR SELECTIONS.
E. DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER). THIS INCLUDES BUT IS NOT LIMITED TO DRAINS BESIDE DOMESTIC WATER HEATERS, HEATING WATER BOILERS, AND DIRECT CONNECTIONS OR DRAINS RECEIVING WATER FROM DISHWASHERS, ETC.
F. ALL PROCESS WATER PIPES SHALL BE INSULATED TO THE SAME LEVEL AS THE DOMESTIC COLD WATER LISTED IN THE SCHEDULE ABOVE. THIS INCLUDES, BUT IS NOT LIMITED TO, DEIONIZED (DI) WATER, FILTERED WATER, REVERSE OSMOSIS (RO) WATER, ETC, IF PRESENT.
G. OUTDOORS INCLUDES ANY UNHEATED AREAS. REFER TO THE HEAT TRACE DETAIL FOR MORE DETAIL DESCRIPTIONS OF LOCATIONS CONSIDERED OUTDOORS.

INSULATION MATERIALS:
1i. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGREES F SHALL BE 0.55, MUST ASTM C411 TO 1200 DEGREES F, AND MUST MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SMOKE DEVELOPED.
2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT3. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 250 DEGREES F (FACED) AND 450 DEGREES F (UNFACED). NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
3i. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.30, MUST PASS ASTM C411 TO 250 DEGREES F FACED. DENSITY SHALL BE 0.75 LBS/FT3. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.
4i. CELLULAR FOAM - EQUAL TO AP/ARMAFLEX TUBES OR SHEETS, AS APPLICABLE TO INSTALLATION. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.28. MAXIMUM OPERATING TEMPERATURE OF 200 DEGREES F. MUST MEET NFPA 255 AND UL723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FREE OF ANY CFCS,HFCS, OR HCFCS
5i. FIBERGLASS DUCT LINER - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION
6i. FIBERGLASS PIPE INSULATION - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24. MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II.
NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES
1F. 0.010" T-304 STAINLESS STEEL JACKETING -- CORRUGATED. PROVIDE 3/16" CORRUGATED ROLL JACKETING FOR PIPING AND TANKS LESS THAN 6 FEET DIAMETER AND DEEP CORRUGATED SHEETS FOR DIAMETERS LARGER THAN 6 FEET.
2F. 0.010" T-304 STAINLESS STEEL JACKETING -- SMOOTH FINISH.
3F. CORRUGATED ALUMINUM -- 0.016" UP THROUGH 24" PIPE SIZE. 0.024" LARGER THAN 24".
4F. SMOOTH ALUMINUM -- 0.016" UP THROUGH 12" PIPE SIZE. 0.024" LARGER THAN 12".
5F. 20-MIL PVC (25 FLAME SPREAD AND 50 SMOKE DEVELOPED.)
6F. FOIL/REINFORCED/KRAFT JACKET (VAPOR BARRIER).
7F. 1/4-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.
8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER).
9F. WATER BASED LATEX ENAMEL WEATHER RESISTANT AND UV RESISTANT FINISH EQUAL TO ARMAFLEX WB FINISH.
10F. 125 MILS THICK EXTRUDED, BLACK, HIGH DENSITY POLYETHYLENE (HDPE). INNER SURFACE SHALL BE OXIDIZED BY MEANS OF CORONA OR FLAME TREATMENT.
NA. NOT APPLICABLE OR NO FINISH REQUIRED.

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BOP	BOTTOM OF PIPE
DFU	DRAIN FIXTURE UNIT
ER / er	EXISTING ITEM TO BE RELOCATED
ED / ed	EXISTING ITEM TO BE REMOVED
E / e	EXISTING ITEM TO REMAIN
FDC	FIRE DEPARTMENT CONNECTION
FU	FIXTURE UNITS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
IE	INVERT ELEVATION
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
SOV	SHUT OFF VALVE
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

PLUMBING APPLICABLE CODES

- 2021 INTERNATIONAL PLUMBING CODE (IPC)
- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- DALLAS ISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

FIRE SUPPRESSION APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- NATIONAL FIRE PROTECTION AGENCY CODES (NFPA)
- DALLAS ISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
PLUMBING NOTES & SYMBOLS

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
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PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-MCGUIRE, INC. DALLAS, TX.

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED — PROFESSIONAL ENGINEER — 12-2-25

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PLUMBING FIXTURE SCHEDULE WITH IMAGES

IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH-IN CONNECTION SIZES				DESCRIPTION
							DCW	DHW	SAN	VENT	
	WCA / WCB(ADA)	WATER CLOSET BODY	AMERICAN STANDARD	AFWALL MILLENNIUM, 1.1 GPF TO 1.6 GPF, TOP SPUD ELONGATED BOWL WITH EVERCLEAN FINISH, MODEL #3351.101	PROVIDE WITH "FVW" FLUSH VALVE FOR WATER CLOSET, DEFINED ON THIS SCHEDULE.	-	REF: FVW	-	4"	2"	WALL MOUNTED, SIPHON JET, ELONGATED BOWL WITH CHURCH #5500C SEAT AND JOSAM HEAVY DUTY CARRIER (500LBS MINIMUM RATING). INSTALLED AT 15" MOUNTING HEIGHT FOR A STANDARD WATER CLOSET "WCA" AND INSTALLED AT ADA MOUNTING HEIGHT OF 18" FROM FLOOR TO TOP OF SEAT FOR WATER CLOSET "WCB".
	FVW	MANUAL WATER CLOSET FLUSH VALVE	SLOAN	MODEL # ROYAL 111-1.28	-	1.28 GPF	1"	-	-	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTALLED ON ADA WATER CLOSET, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLATION PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LABELING.
	LB	LAVATORY BOWL	AMERICAN STANDARD	DECORUM, MODEL # 9024	PROVIDE WITH "FTL" FAUCET FOR LAVATORY, DEFINED ON THIS SCHEDULE.	-	REF: FTL	REF:FTL	2"	1-1/2"	WALL HUNG 20"X18" VIRTECOUS CHINA LAVATORY BOWL AND ADA COMPLIANT. CONTRACTOR SHALL COORDINATE HOLE NUMBER AND SPACING WITH FAUCET SELECTION AND ARCHITECTURAL ACCESSORIES (SOAP DISPENSER, ETC) PRIOR TO ORDER. PROVIDE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED GRIP TYPE SUPPLY WITH WALL ESCUTCHEON AND LOOSE-KEY WALL STOPS EQUAL TO MCGUIRE NO. H2. 15BLK. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE.
	FTL	LAVATORY FAUCET HARD WIRED	SLOAN	FAUCET MODEL # EAF-200, GRID STRAINER MODEL # ETF-490-A	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	0.5 GPM	1/2"	1/2"	-	-	AUTOMATIC SENSOR, HARD WIRED, MULTIPLE LAMINAR SPRAY HEAD FAUCET WITH CHROME PLATED BRASS GRID STRAINER ASSEMBLY. CONFIRM ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDER. FIXTURE SHALL HAVE LEED WATERSENSE LABELING IF USED IN A PRIVATE APPLICATION.
	MS	MOP SINK	FLORESTONE	MODEL # 87	PROVIDE WITH "FTM" FAUCET FOR SERVICE OR MOP SINK, DEFINED ON THIS SCHEDULE.	-	REF: FTM	REF: FTM	3"	2"	24" X 24" X 12" TERRAZZO MOP SINK WITH STAINLESS STEEL BUMPER GUARD, STAINLESS STEEL BACK PANELS.
	FTM	FAUCET FOR MOP OR SERVICE SINK	CHICAGO FAUCETS	MODEL # 540-LD897SGXKCCP	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE, AND 5FT HOSE.	FULL FLOW	3/4"	3/4"	-	-	VANDAL PROOF LEVER, VACUUM BREAKER, CHROME PLATED, PAIL HOOK, HOSE THREADED OUTLET, ADA COMPLIANT. PROVIDE WITH 5FT HOSE AND COUPLING.
	HD	HUB DRAIN	JOSAM	SERIES 88600	-	-	-	-	REF: PLANS	REF: PLANS	OPEN CAST IRON DRAINAGE HUB. REFER TO PLANS FOR SIZE.
	FD	FLOOR DRAIN SQUARE	JOSAM	MODEL # 30000-S	-	-	-	-	3"	2"	SQUARE, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, AND BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN SHALL BE COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE DEBRIS COVER.
	FS	FLOOR SINK	JOSAM	SERIES 49320A-NB-3-55	-	-	-	-	4"	2"	SQUARE CAST IRON FLOOR SINK WITH PORCELAIN COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, NON-TRAFFIC, ANTI-TILTING GRATE. 12" X 12" TOP SIZE WITH 1/2 CAST IRON GRATE. PROVIDE WITH TRAP GUARD, "W/TG" OR TRAP PRIMER "W/TP" AS INDICATED PER PLANS.
	WCO	WALL CLEANOUT	JOSAM	SERIES 58910	-	-	-	-	REF: PLANS	-	COATED CAST IRON CLEANOUT TEE WITH RECESSED, TAPPED PLUG AND POLISHED STAINLESS STEEL COVER (SERIES 58600).
	TG	TRAP GUARD	PRO-SET	TRAP GUARD	-	-	-	-	REF: FDx	-	INSTALL ON ALL FLOOR DRAINS, FLOOR SINKS, FLOOR TROUGHS AND HUB DRAINS THAT ARE INDICATED "W/TG" WITH TRAP GUARD. NOTE THAT ANY ALTERNATE TRAP GUARD SUBMITTED MUST BE OF THIS "LAMBS TONGUE" OR "CURLING FLAP" TYPE FORM. NO OTHER FORMS OF TRAP GUARDS WILL BE ACCEPTED.
	HSA	HYDRAULIC SHOCK ABSORBER	JOSAM	SERIES 75000	-	-	-	-	REF: PLANS	-	WROUGHT COPPER SHELL SIZE AND LOCATE IN ACCORDANCE WITH P.D.I. STANDARDS.
	BFP	SMALL DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINE OR COFFEE MAKER, ETC	WATTS	MODEL # SD-3	-	-	REF: PLANS	REF: PLANS	VARIES	-	ASSE 1022 BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES AND OTHER APPLIANCES. SHALL BE LEAD FREE. PROVIDE COPPER DRAIN PIPING (SIZE PER MANUFACTURER) FROM VALVE ASSEMBLY AND ROUTE TO NEAREST DRAIN (HUB DRAIN OR FLOOR SINK).
	RPZ-S	SMALL REDUCED PRESS RELIEF ASSEMBLY FOR MAKEUP WATER TO MECHANICAL EQUIPMENT, ICE MACHINE, OR WATER FILTER, ETC	WATTS	1/2" - 2" MODEL #LF009QT	-	-	REF: PLANS	REF: PLANS	-	-	ASSE 1013 COMPLIANT REDUCED PRESSURE ZONE ASSEMBLY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WITH SHUTOFF VALVES, LEAD FREE, FDA EPOXY COATED. PROVIDE FULL SIZE COPPER DRAIN PIPING FROM VALVE ASSEMBLY AND PROVIDE FLOOR SINK FOR DRAIN NEAR ASSEMBLY AS SHOWN ON DRAWINGS. ENSURE ASSEMBLY IS ACCESSIBLE PER LOCAL JURISDICTION'S GUIDELINES.
	TMV	POINT OF MIXING VALVE	LEONARD	S-170A-LF	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.25 GPM (0.95 L/MIN) CERTIFIED TO ASSE -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE:120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE
	TMV ACCEPTABLE ALTERNATE	POINT OF MIXING VALVE	SLOAN	MODEL # MIX-135 0326045PK	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.5 GPM (2.2 L/MIN) CERTIFIED TO ASSE 1016.[ONLY ALLOWED IF FAUCET IS 0.5 GPM OR GREATER. IF THE FAUCET IS LESS THEN 0.5 GPM THE CONTRACTOR SHALL PROVIDE THE LEONARD TMV.] -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE: 120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE

GENERAL NOTES:

1 REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2 EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
3 ALL WATER CLOSET FLUSH VALVES, URINAL FLUSH VALVES, PRIVATE LAVATORY FAUCETS, AND SHOWERHEAD FAUCETS SHALL BE LEED WATERSENSE LABELED. NO EXCEPTIONS. EVEN IF THE PROJECT IS NOT A LEED PROJECT PURDY-MCGUIRE STILL REQUIRES ALL THESE FIXTURE TYPES TO BE WATERSENSE LABELED.
4 REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. FOR ALL VISIBLE FIXTURES, THE CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT DURING THE SUBMITTAL PHASE.
5 SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
A. FLUSHOMETERS: SLOAN, AMERICAN STANDARD, TOTO AND ZURN.
B. FIXTURE SUPPORTS: JOSAM, MIFAB, JAY R. SMITH, TYLER PIPE WADE DIV., WATTS DRAINAGE PRODUCTS AND ZURN.
C. WATER CLOSETS AND URNIALS: AMERICAN STANDARD, KOHLER, SLOAN, TOTO, ZURN, AND CHURCH (SEATS).
D. LAVATORIES AND FAUCETS: AMERICAN STANDARD, ELKAY, KOHLER, SLOAN, TOTO, BRADLEY, AND ZURN.
E. SINKS AND FAUCETS: AMERICAN STANDARD, ELKAY, JUST, CHICAGO, ADVANCE TABCO, AND SYMMONS.
F. MOP SINKS: FIAT, FLORESTONE, AMERICAN STANDARD, ELKAY, ZURN, AND SPEAKMAN.
G. EMERGENCY SHOWERS AND EYE WASHES: GUARDIAN, BRADLEY, AND SPEAKMAN.
H. WATER METERS: MASTER METER, BADGER, NEPTUNE, AND EMON.
I. DRAINS AND CLEAN-OUTS: JOSAM, MIFAB, JAY R SMITH, WATTS, ZURN, AND SIOUX CHIEF.
J. TRAP GUARDS: PRO-SET. SEE THE TRAP GUARD DESCRIPTION ABOVE FOR OTHER EQUAL ALTERNATE MANUFACTURERS.
K. BACKFLOW PREVENTERS: WATTS, AND BEECO.

KEY PLAN

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PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PEDDY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
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FOR
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Moody Nolan

DRAWING TITLE:

PLUMBING FIXTURE SCHEDULE

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED — PROFESSIONAL ENGINEER
12-2-25

12.02.2025
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P002
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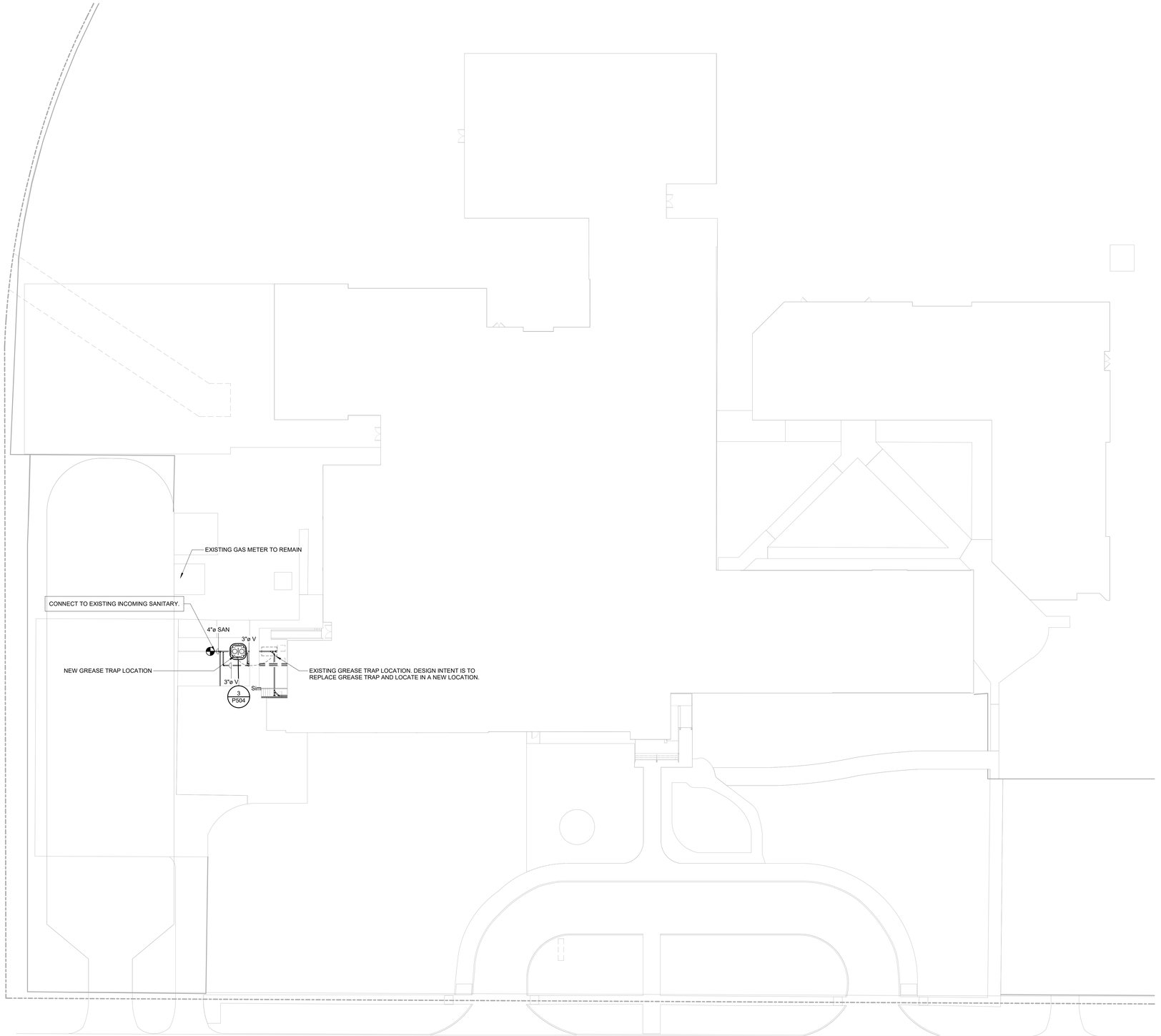
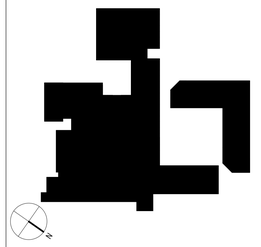


1 PLUMBING SITE PLAN
1" = 20'-0"

KEY PLAN



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ARCHITECTURAL	L. FOOTE
MECHANICAL	R. MCDOWELL
ELECTRICAL	C.ZAMULINSKI

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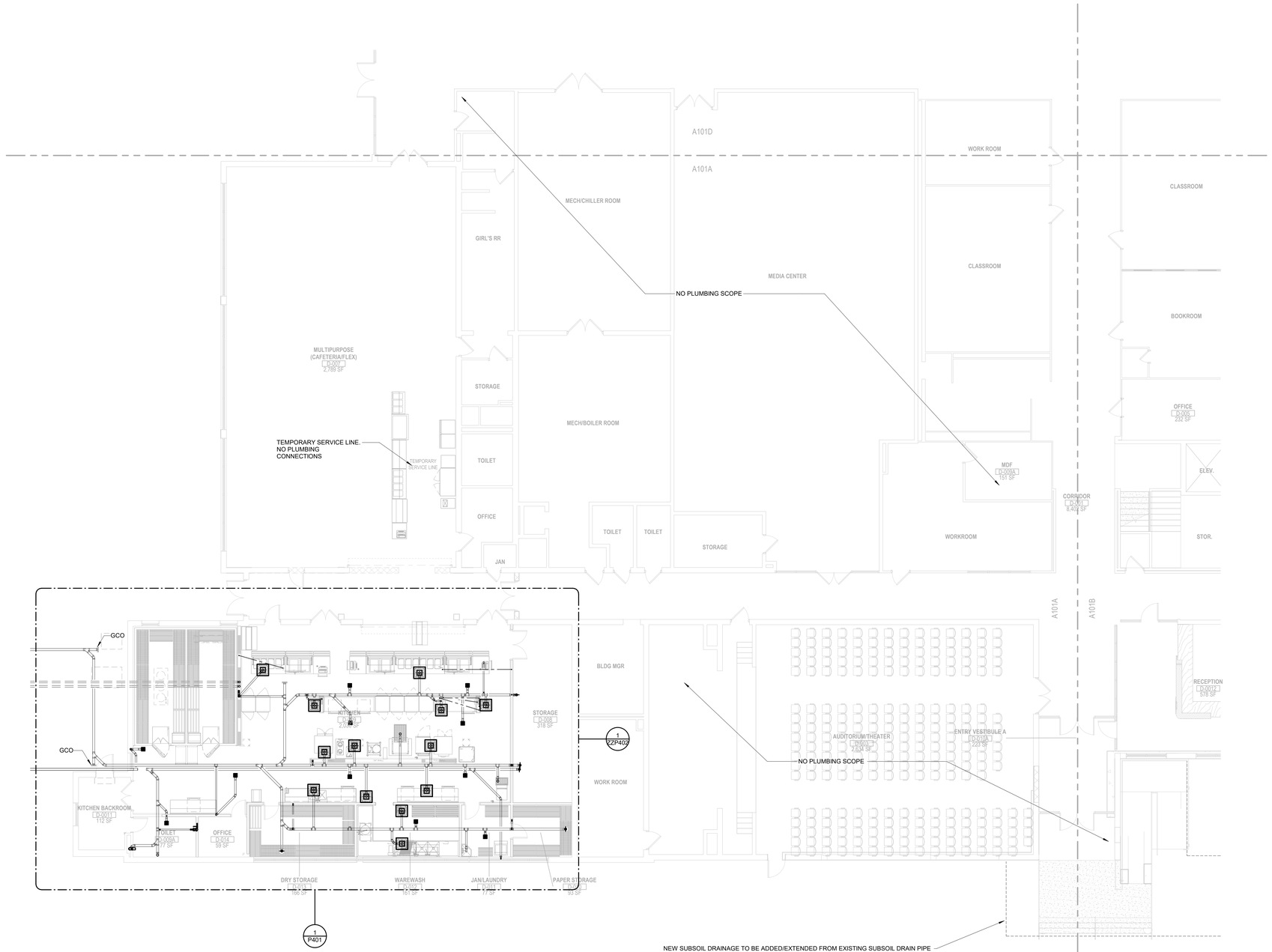
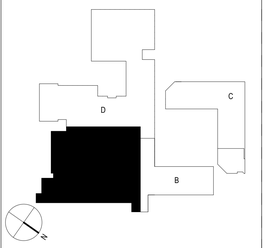


1 UNDERFLOOR - QUADRANT PLUMBING PLANS - AREA 'A'
1/8" = 1'-0"

KEY PLAN



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MECHANICAL	L. PEGGY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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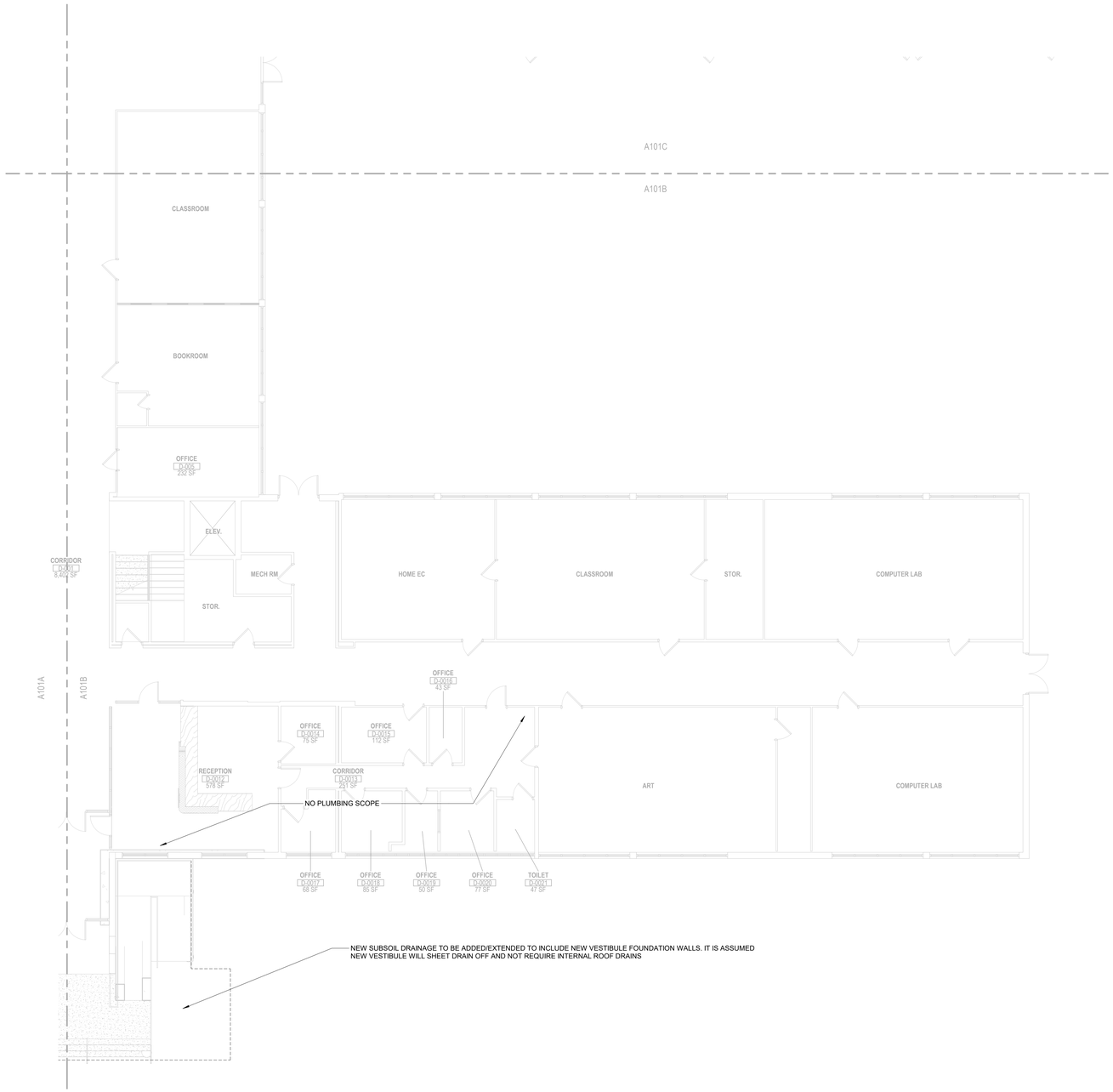

1 UNDERFLOOR - QUADRANT PLUMBING PLANS - AREA 'B'
1/8" = 1'-0"

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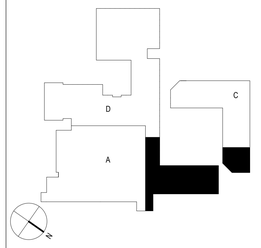

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MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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UNDERFLOOR - QUADRANT PLUMBING PLANS - AREA 'B'

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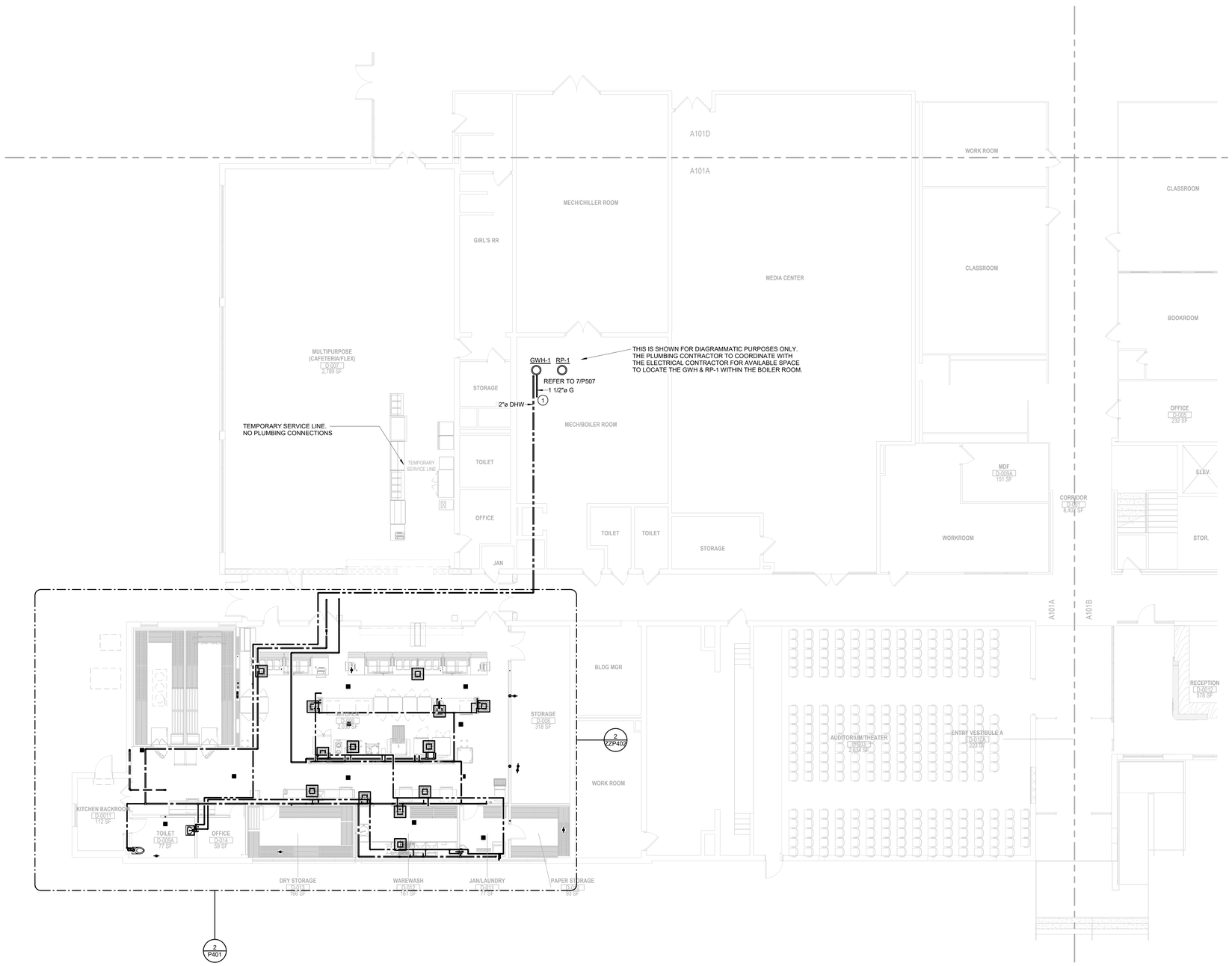
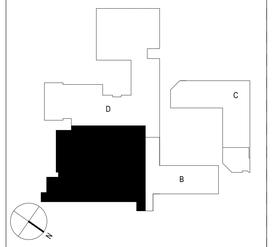
KEYED NOTES - SHEET E201A

1 CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING NAT GAS PIPING. EXISTING NATURAL GAS DRAWINGS WERE NOT AVAILABLE AT TIME OF DESIGN. IT IS ASSUMED THERE IS EXISTING NATURAL GAS AT EXISTING WH. CONTRACTOR SHALL FULLY DEMOLISH ALL NATURAL GAS BACK TO WHERE IT ENTERS BOILER ROOM. FIELD CONFIRM THAT PIPE SIZE OF EXISTING GAS ENTERING BOILER ROOM. BASED ON A ROUGH TOTAL DEVOLPED LENGTH OF 300FT MAXIMUM TO NATURAL GAS METER, THE MINIMUM NATURAL GAS PIPE SIZE ENTERING THE BOILER ROOM SHALL BE 2". CONTRACTOR TO FIELD CONFIRM IF THE EXISTING IS 2" OR GREATER. NOTIFY ENGINEER IF LESS THAN 2".



1 LEVEL 01 - QUADRANT PLUMBING PLANS - AREA 'A'
1/8" = 1'-0"

KEY PLAN



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LEVEL 01 - QUADRANT PLUMBING PLANS - AREA 'A'

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MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI

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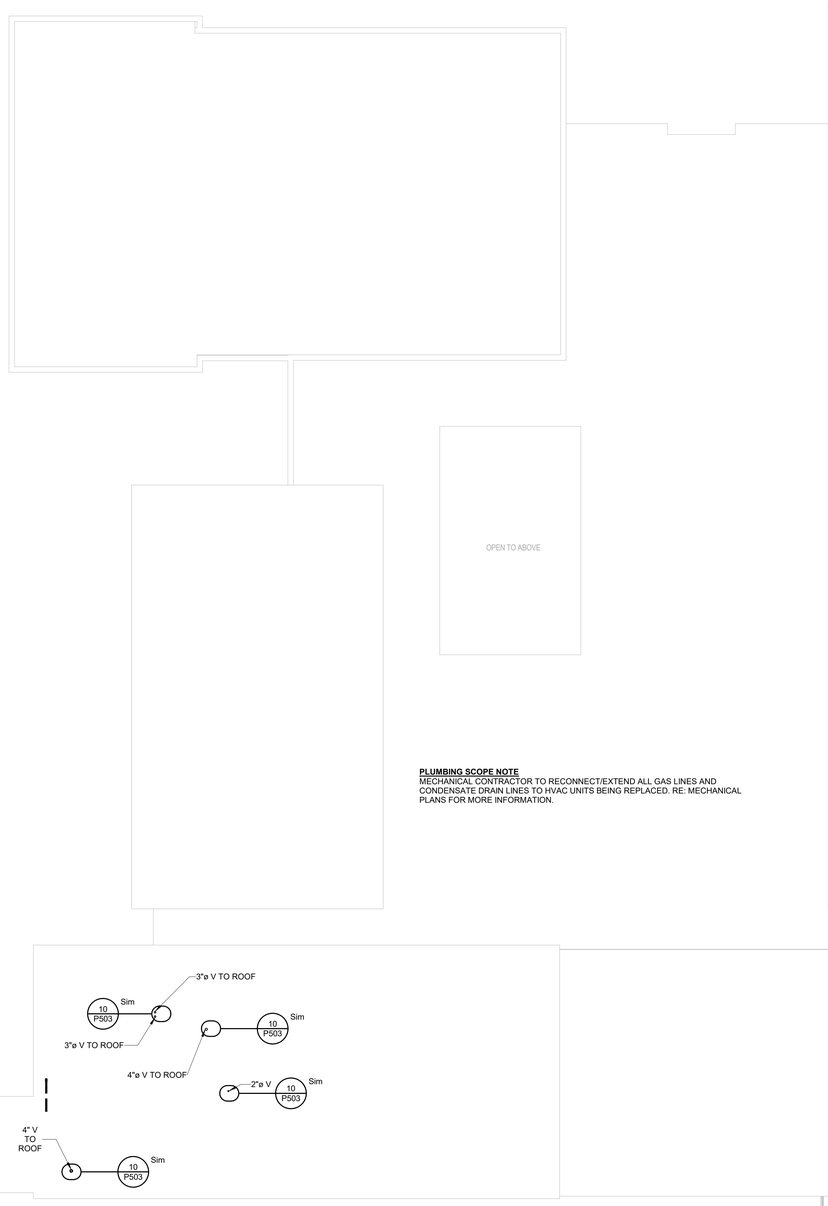
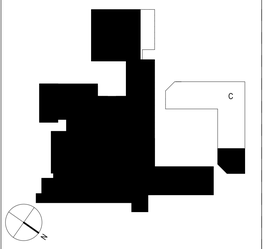


OPEN TO ABOVE

PLUMBING SCOPE NOTE
MECHANICAL CONTRACTOR TO RECONNECT/EXTEND ALL GAS LINES AND CONDENSATE DRAIN LINES TO HVAC UNITS BEING REPLACED. RE: MECHANICAL PLANS FOR MORE INFORMATION.

1 ROOF LEVEL - QUADRANT PLUMBING PLAN
3/32" = 1'-0"

KEY PLAN



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PM: JOB NO. 22102.002
PROJ. MGR. C. BRADY, B.JARRETT
MECHANICAL C. RICCOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAKULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT
HARRY STONE

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FOR
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Moody Nolan

DRAWING TITLE:
ROOF LEVEL - QUADRANT PLUMBING PLAN

STATE OF TEXAS
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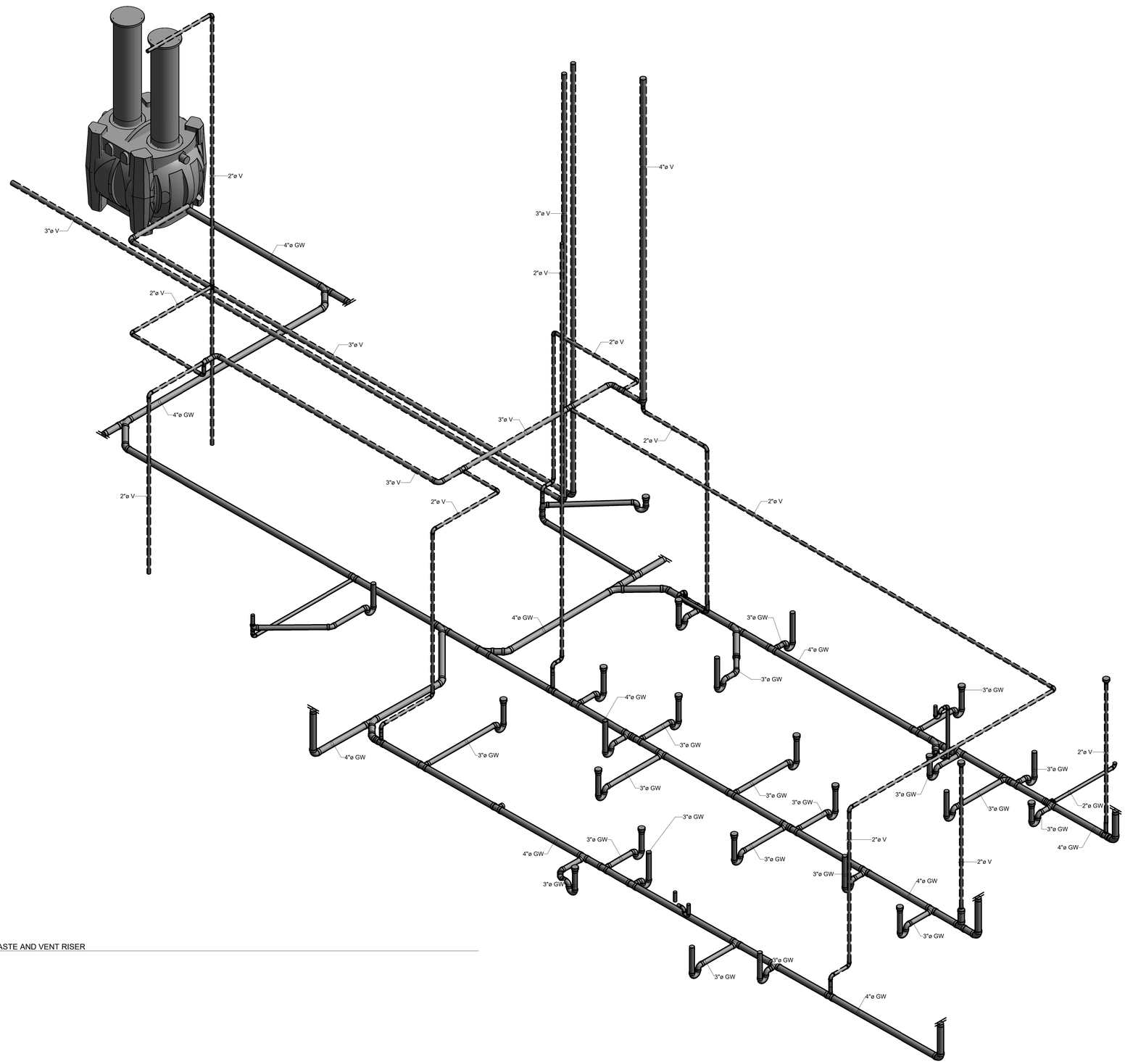

1 GREASEWASTE AND VENT RISER

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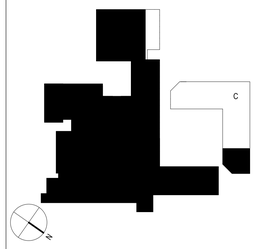

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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PEOTTE
PLUMBING	M. CRISWELL
ELECTRICAL	C.ZAMUDINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING RISER - GREASEWASTE

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED PROFESSIONAL ENGINEER
12-2-25

12.02.2025
R22301.01
P301
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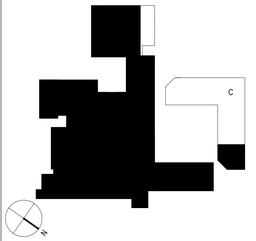

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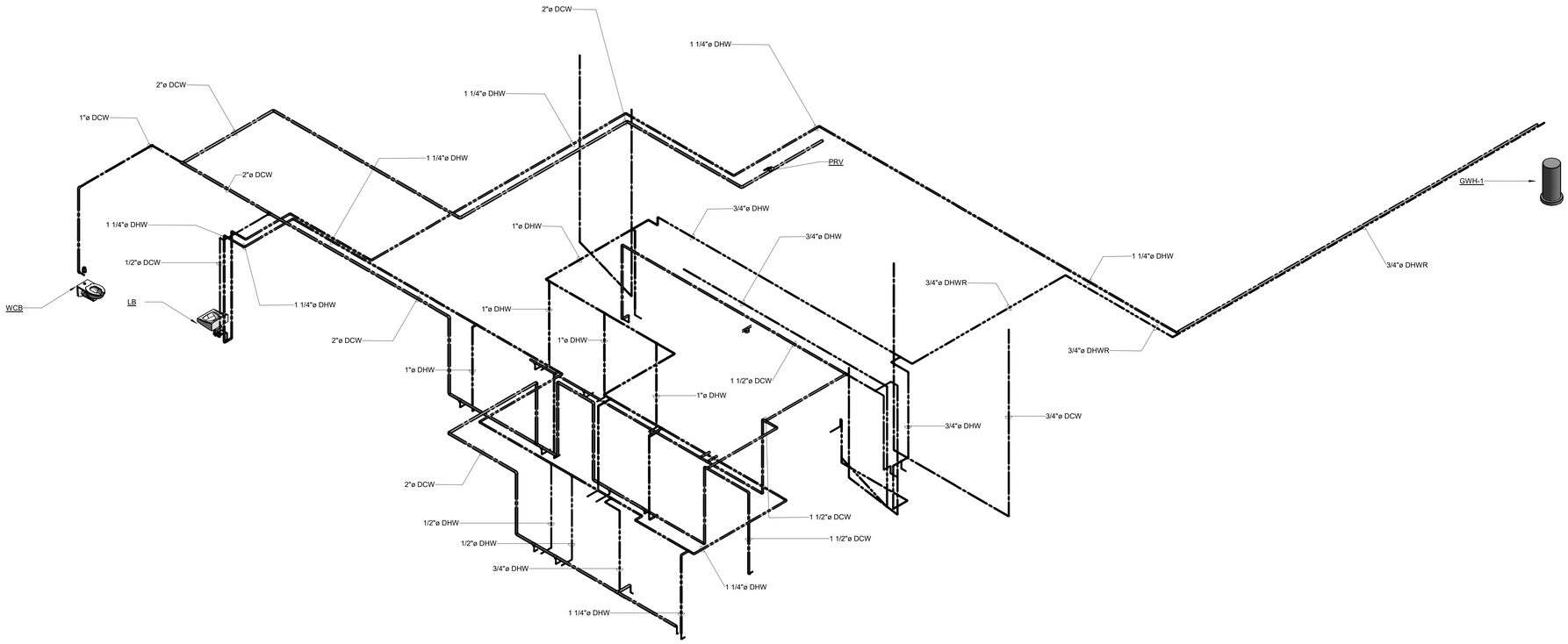

1 DOMESTIC HOT AND COLD WATER RISER

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DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING RISER - DOMESTIC HOT AND COLD WATER

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PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMUDINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

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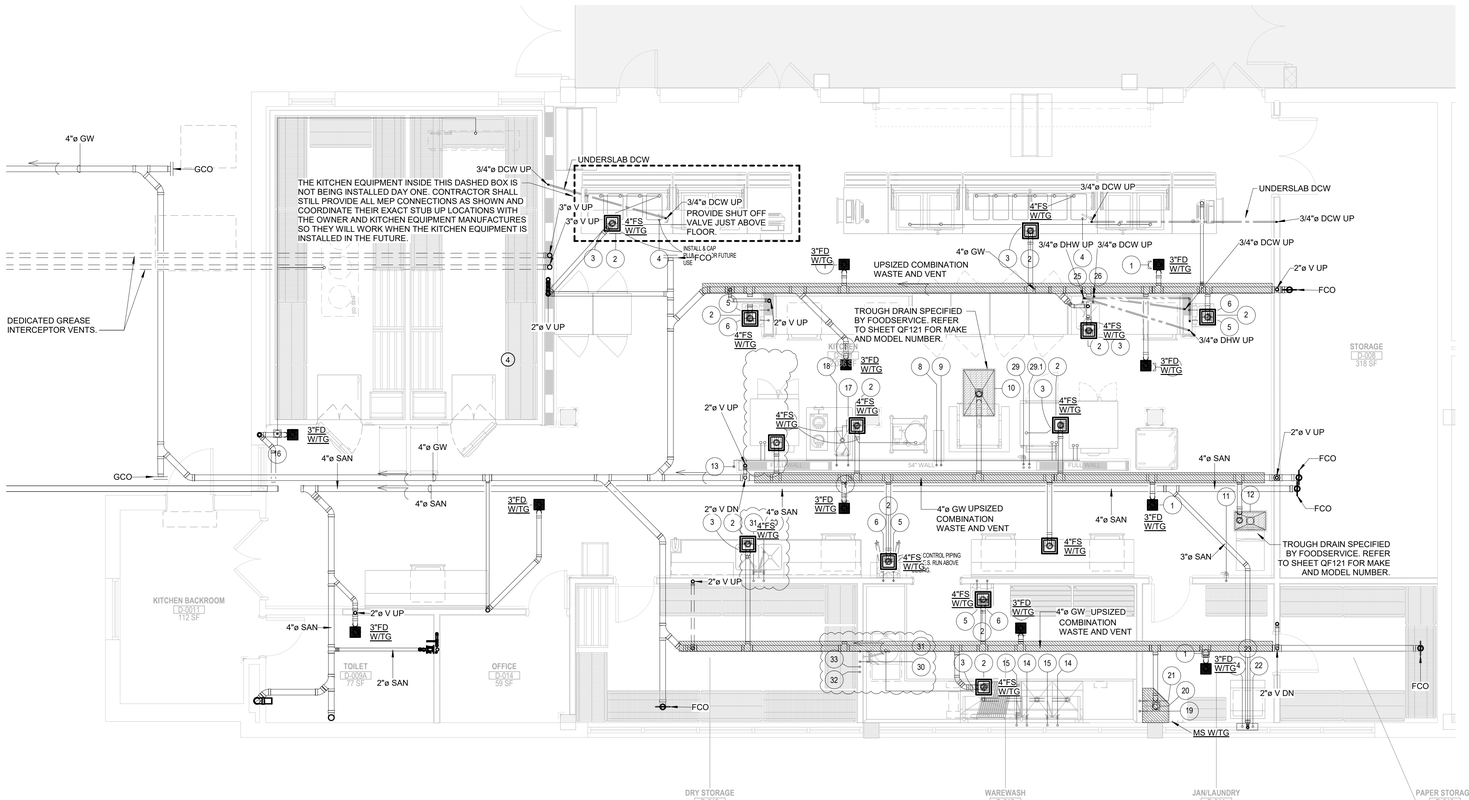
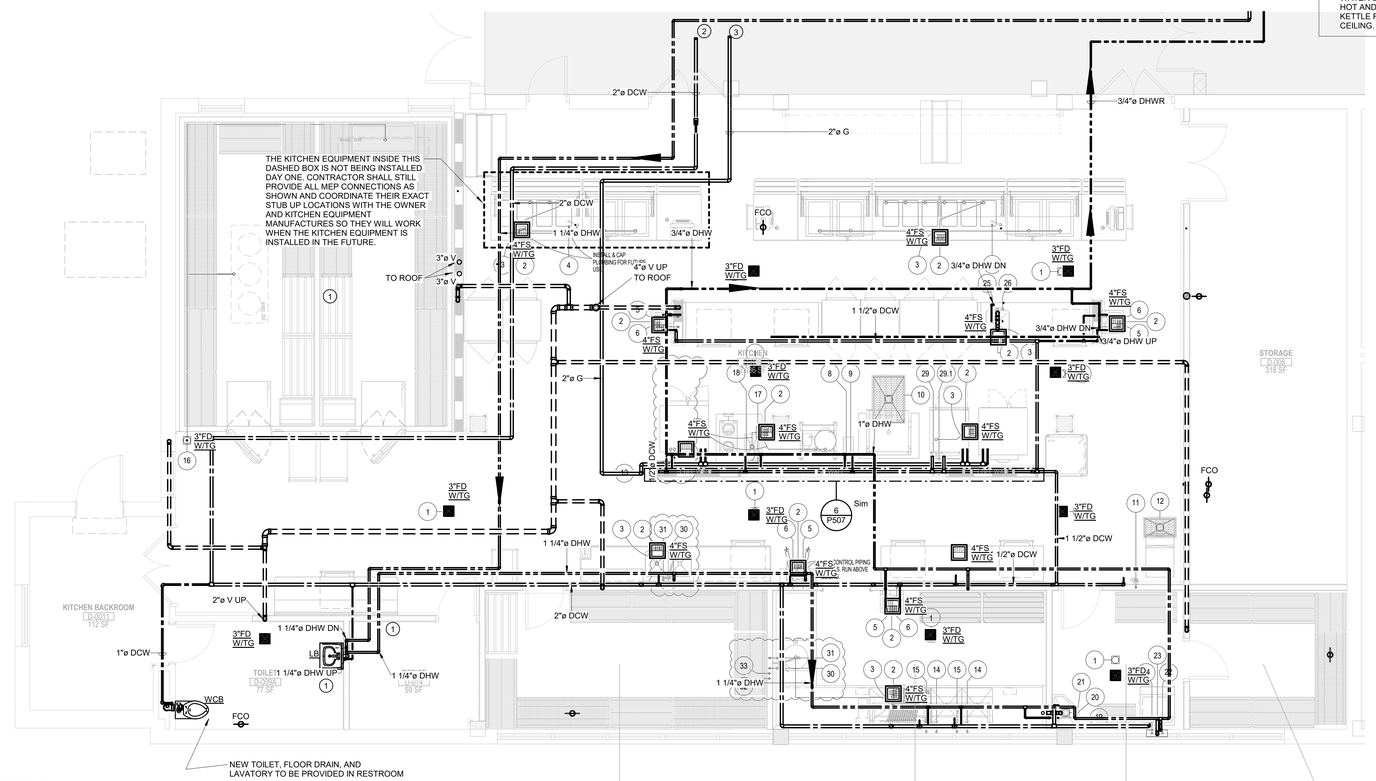


1 ENLARGED KITCHEN UNDERFLOOR - PLUMBING PLAN
1/4" = 1'-0"



2 ENLARGED KITCHEN - PLUMBING PLAN
1/4" = 1'-0"

KEYED NOTES - SHEET P401

1 INDIRECT WASTE BY PLUMBER. SEE KITCHEN DRAWINGS FOR MORE INFO.

2 CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING COLDWATER PIPING.

3 CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING NAT GAS PIPING. EXISTING NATURAL GAS DRAWINGS WERE NOT AVAILABLE AT TIME OF DESIGN. IT IS ASSUMED THERE IS EXISTING NATURAL GAS IN THE KITCHEN. CONTRACTOR SHALL FULLY DEMOLISH ALL NATURAL GAS IN THE KITCHEN BACK TO WHERE IT ENTERS THE KITCHEN. FIELD CONFIRM THAT PIPE SIZE OF EXISTING GAS ENTERING KITCHEN. BASED ON A ROUGH TOTAL DEVOLPED LENGTH OF 300FT MAXIMUM TO NATURAL GAS METER, THE MINIMUM NATURAL GAS PIPE SIZE ENTERING THE KITCHEN SHALL BE 2". CONTRACTOR TO FIELD CONFIRM IF THE EXISTING IS 2" OR GREATER. NOTIFY ENGINEER IF LESS THAN 2".

4 PLUMBING CONTRACTOR IS RESPONSIBLE FOR DEMOING ALL EXISTING UNDERFLOOR PLUMBING, FLOOR SINKS, AND FLOOR DRAINS.

GAS LOADS:
(2) 60k BTU
(1) 90k BTU
(1) 200k BTU
(2) 60k BTU
TOTAL + 20%:
640k BTU

GENERAL NOTES - P401

A. REFER TO PLUMBING FRONT SHEET FOR ADDITIONAL APPLICABLE GENERAL NOTES.
B. FOR ALL ROUGH IN SIZES AND ELEVATIONS TO KITCHEN EQUIPMENT REFER TO KITCHEN PLUMBING ROUGH IN SHEET: QF121.
C. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND REQUIREMENTS TO FOOD SERVICE EQUIPMENT.
D. INSTALL A THERMOSTATIC POINT OF USE MIXING VALVE (ASSE 1070 COMPLIANT) WITH INTEGRAL CHECK VALVE PRIOR TO CONNECTION OF HANDWASHING SINKS, KITCHEN SINKS, MOP SINKS, LAVATORIES, AND SINKS IN PUBLIC USE SPACES, SET TO 120 DEG F.
E. ALL KITCHEN EQUIPMENT DRAIN LINES WILL BE INDIRECTLY CONNECTED TO THE WASTE LINES WITH A MINIMUM 2" OR 2X PIPE DIAMETER AIR GAP, WHICHEVER IS GREATER.
F. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER CONNECTIONS TO ALL FIXTURE IN AN ACCESSIBLE LOCATION.
G. IF PVC IS ALLOWED FOR UNDERGROUND PIPING, CAST IRON PIPE SHALL BE INSTALLED FOR THE FIRST 25 FT AFTER ANY DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER) BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS, DISHWASHERS, ETC.
H. PROVIDE AN APPROVED BACKFLOW PREVENTION DEVICE ON DISH WASHER RINSE LINES, PRIOR TO ANY FILTER, WATER SOFTENER, ICE MACHINES, SODA MACHINES, TEA/COFFEE URNS, INTEGRAL TO THE MOP SINK FAUCET, INTEGRAL TO ALL MIXING VALVES, AND INTEGRAL TO HOSE BIBS. LOCATE BACKFLOW PREVENTION DEVICE 6" ABOVE THE OVERFLOW RIM AND AFTER LAST SHUTOFF VALVE TO EQUIPMENT. ROUTE DRAIN LINE FROM BACKFLOW PREVENTION DEVICE TO NEAREST DRAIN WITH AN AIR GAP.
I. PROVIDE CHECK VALVE EQUAL TO WATTS SERIES LF601 CHECK VALVE ON THE HOT AND COLD WATER SUPPLY LINES TO THE FOLLOWING PIECES OF EQUIPMENT TO PREVENT MIGRATION OF HOT AND COLD WATER INTO OPPOSITE LINES: PRE-RINSE SPRAYER FAUCETS, MOP SINK, AND KETTLE FAUCETS. FEED WATER OVERHEAD AND MOUNT CHECK VALVE ABOVE ACCESSIBLE CEILING.

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Moody Nolan

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PM: JOE NO.
PROJECT MGR.
MECHANICAL
PLUMBING
ELECTRICAL
22102.002
C.JARRETT, B.JARRETT
C.RICCOTA
R. COTTRELL
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108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

DRAWING TITLE:

ENLARGED KITCHEN PLUMBING

12.02.2025
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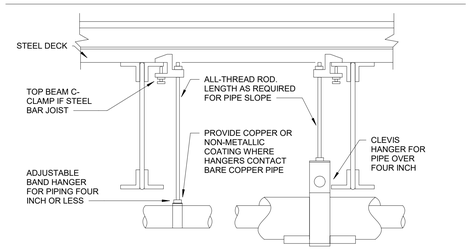
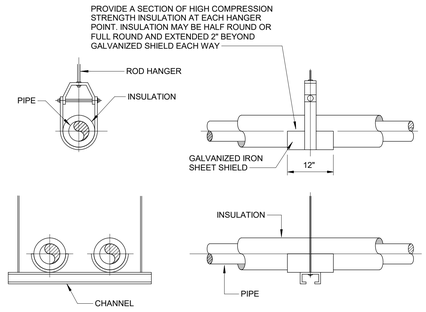


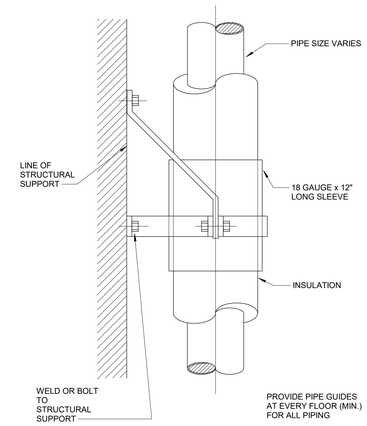
DETAIL NOTES:

A. PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE.
B. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
C. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.
D. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.
E. HANGER SPACING FOR PIPE SIZE:
   a. COPPER: 4"=12 '3"=11 '2-1/2"=10' 2"=9' 1"=7' 1"=6' 3/4"=6' 1/2"=5'.
   b. CAST IRON: 10' AND ONE NEAR ALL JOISTS.
   c. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'.
F. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
G. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
H. LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS.
I. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.
J. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.
K. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE.
L. REFER TO CODES FOR FURTHER INFORMATION.

1 PIPE INSULATION/HANGER DETAIL
NOT TO SCALE



2 PIPE HANGING SUPPORT DETAILS
NOT TO SCALE



3 PIPING SUPPORT
NOT TO SCALE

SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

4 WATER HAMMER ARRESTOR
NOT TO SCALE

5 PIPE SLEEVE DETAIL
NOT TO SCALE

6 PIPE SLEEVE INTERIOR WALLS
NOT TO SCALE

7 FIRE RATED PIPE SLEEVE DETAIL
NOT TO SCALE

8 TYPICAL FIRE RATED SLAB PENETRATION DETAIL
NOT TO SCALE

10 INDIRECT WASTE DETAIL
NOT TO SCALE

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DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

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PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

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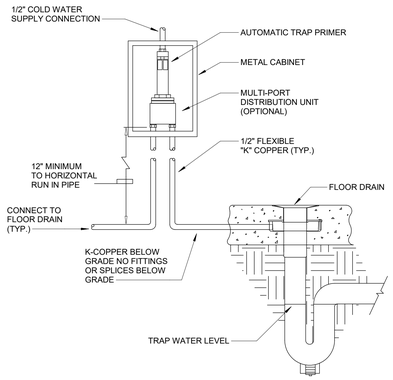
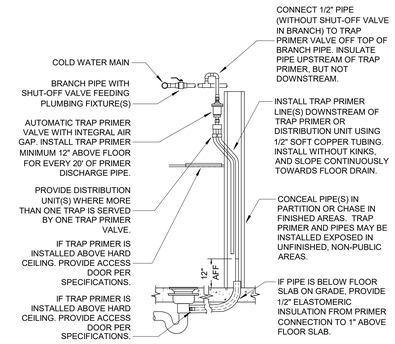


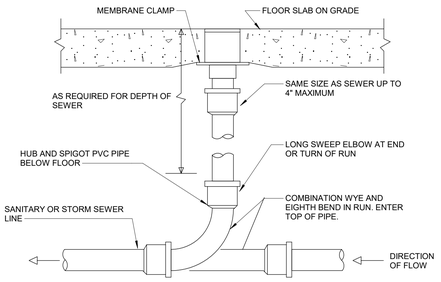
1 TRAP PRIMER
NOT TO SCALE



PROVIDE TRAP PRIMERS WHERE SHOWN ON FLOOR PLANS, AND WHERE REQUIRED BY LOCAL AUTHORITIES. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION. INSTALL TRAP PRIMER VALVE AND DISTRIBUTION UNIT PER MANUFACTURER`S RECOMMENDATIONS.

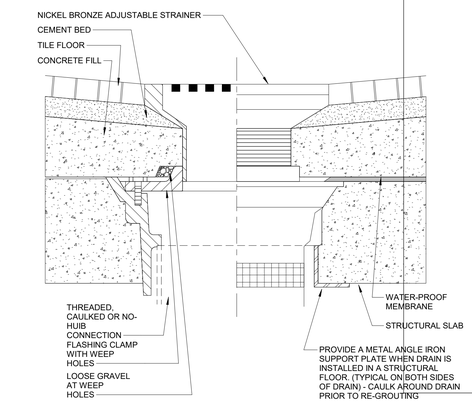
2 TRAP PRIMER OVERHEAD DETAIL
NOT TO SCALE

PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE BRONZE PLUG IN PVC BODY.

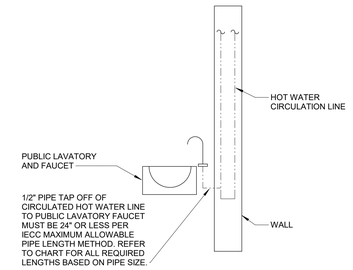


LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATED CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

3 FLOOR CLEANOUT DETAIL
NOT TO SCALE



4 FLOOR DRAIN/SINK SUPPORT DETAIL
NOT TO SCALE

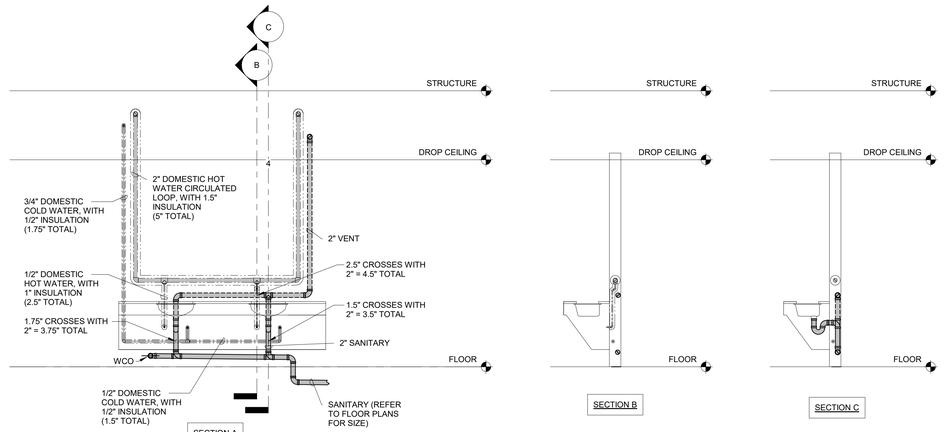


6 CIRCULATED HOT WATER LAVATORY TAP DETAIL
NOT TO SCALE

IECC 2015/2018, TABLE C404.5.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public Lavatory Faucets	Other Fixtures and Appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1-1/4	8	0.5	8
1-1/2	11	0.5	6
2 or larger	18	0.5	4

For SI: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 liquid ounce = 0.030L, 1 gallon = 128 ounces.



GENERAL NOTES:

A. THE PURPOSE OF THIS DETAIL IS TO SHOW HOW THE ENTIRE DOMESTIC HOT WATER RECIRCULATION LOOP CAN BE DROPPED DOWN AND FIT IN A LAVATORY WET WALL THAT IS ONLY 6" THICK. ALTERNATE PIPING ROUTES ARE ALLOWED AS LONG AS THE PIPING FITS WITH THE WET WALL SHOWN ON THE PLANS AND MEETS CODE.

B. THE DOMESTIC HOT WATER RECIRCULATION LOOP MUST BE DROPPED DOWN IN THE WALL NEAR EACH LAVATORY BECAUSE IT IS REQUIRED IN THE INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO DETAIL #6 ON THIS SHEET "CIRCULATED HOT WATER LAVATORY TAP DETAIL" FOR EXACT PIPE LENGTH RESTRICTIONS ON THE HOT WATER TAP.

C. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE WET WALL AT EACH LAVATORY LOCATION.

D. THIS DETAIL IS SCHEMATIC ONLY. THE CONTRACTOR SHALL COORDINATE EXACT PIPE ROUTING IN THE FIELD WITH ALL OTHER DISCIPLINES. ADDITIONAL FITTINGS AND PIPING MAY BE NECESSARY AT EACH LOCATION.

E. REFER TO FLOOR PLANS FOR ACTUAL BRANCH PIPE SIZES. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR ACTUAL PIPE ROUGH-IN SIZES TO INDIVIDUAL FIXTURES.

8 CIRCULATED DOMESTIC HOT WATER LAVATORY PIPING DIAGRAM - 6" THICK WALL
NOT TO SCALE

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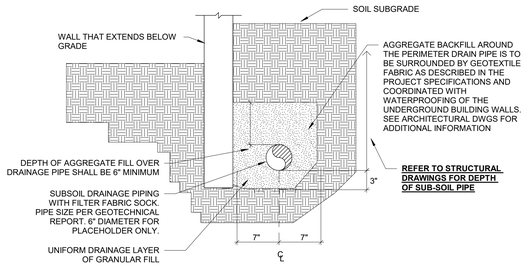
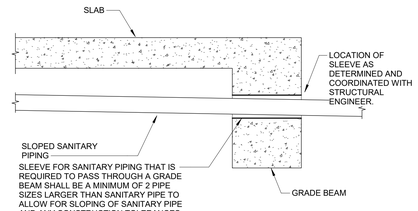


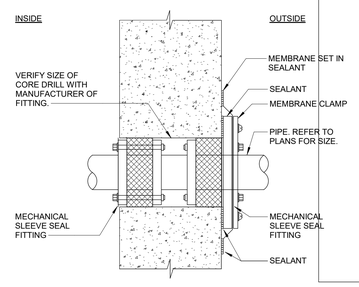
NOTE:
1. REFER TO PROJECT DRAWINGS FOR LOCATION OF ALL REQUIRED SUB-SOIL DRAINAGE PIPING.
2. THIS DETAIL IS FOR CONCEPT ONLY AND INSTALLATION OF SUB-SOIL PIPING SHALL BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DETAILS ASSOCIATED WITH SUB-SOIL DRAINAGE SYSTEM ON THIS PROJECT.
3. REFER TO GEOTECHNICAL REPORT AND STRUCTURAL DETAILS FOR FINAL REQUIREMENTS ON SUBSOIL PIPE SIZING. THIS INCLUDES, BUT IS NOT LIMITED TO, THE SIZE AND LOCATION OF ALL SUBSOIL PIPING, AND THE SIZE (GPM) OF THE SUBSOIL PUMPS.

2 SUBSOIL DRAIN DETAIL
NOT TO SCALE

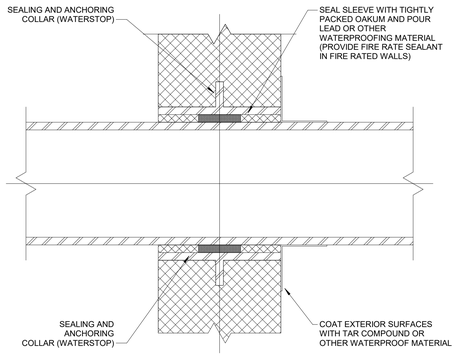


SANITARY PIPE SIZE	MINIMUM PIPE SLEEVE SIZE
2"	4"
3"	5"
4"	6"
6"	8"
8"	10"

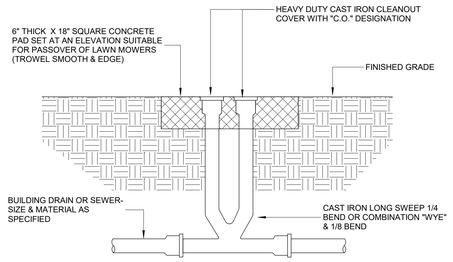
3 PIPING GRADEBEAM SLEEVE SIZING DETAIL
NOT TO SCALE



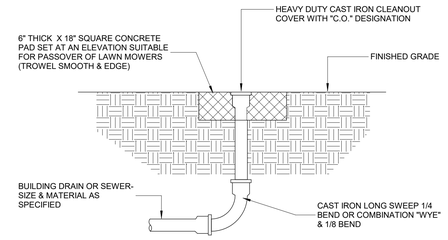
4 PIPE PENETRATION BELOW GRADE
NOT TO SCALE



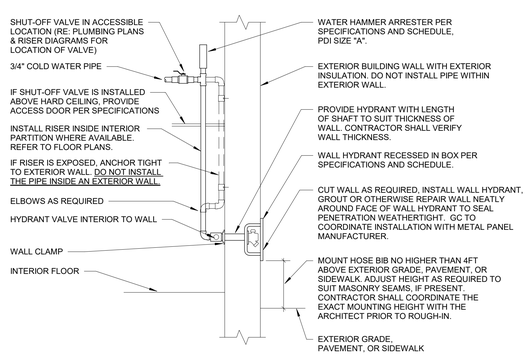
5 PIPE SLEEVE EXTERIOR WALLS
NOT TO SCALE



6 GRADE TWO-WAY CLEANOUT DETAIL
NOT TO SCALE

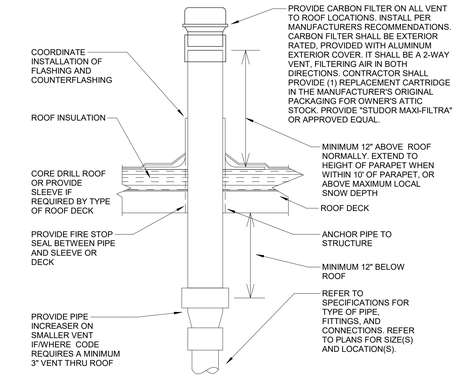


7 GRADE CLEANOUT DETAIL
NOT TO SCALE



NOTE:
ARRANGEMENT IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT FIELD CONDITIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO PLANS FOR LOCATION.

9 NON-FREEZE WALL HYDRANT INSTALLATION
NOT TO SCALE



NOTE: LOCATE VENT TO ROOF A MINIMUM OF 3FT AWAY FROM ANY PROPERTY LINE, A MINIMUM OF 10FT HORIZONTAL OR 3FT VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, A MINIMUM OF 18IN FROM ANY ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE, OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST 6FT OF VENT PIPE INSIDE THE BUILDING PER SPECIFICATIONS. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS.

10 VENT THRU ROOF DETAIL
NOT TO SCALE

KEY PLAN

#	DATE	CHANGE DESCRIPTION

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel 972/239-5357
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www.purdy-mcguire.com

PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PEGOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING DETAILS - EXTERIOR

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

R22301.01

P503

100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/1/2025 1:20:28 PM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/22301.01_DISD Harry Stone Montessori Acad Reno_PLUMB_R23.rvt

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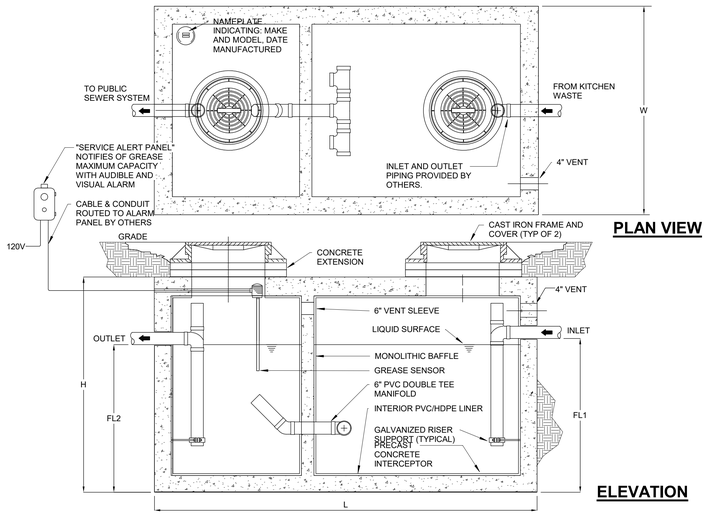
500 - 4000 GALLON



PLAN VIEW

ELEVATION

APPLICATION NOTES:

TYPICAL APPLICATIONS INCLUDE COMMERCIAL AND INDUSTRIAL FOOD SERVICE KITCHENS WHERE EXCESSIVE GREASE MAY INTERFERE WITH PROPER DRAINAGE OF THE SEWER SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW SEWER SYSTEMS. A SAMPLE WELL IS UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE LOCAL WATER AUTHORITY.

SPECIFICATIONS:

CONCRETE: CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC BAFFLE REQUIRED, SLIDE-IN TYPE IS NOT ACCEPTABLE)

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A605 ON REQUIRED CENTERS OR EQUAL .

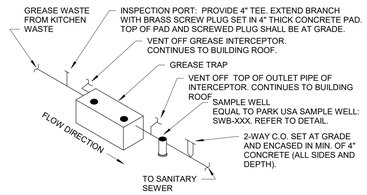
C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

ENGINEERING DATA:

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BUOYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.

CONSULT WITH MANUFACTURER FOR EXACT EXCAVATION DIMENSIONS AND SHIPPING INFORMATION.



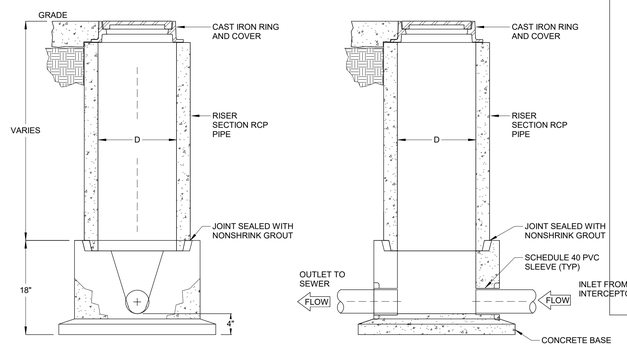
1 CONCRETE GREASE INTERCEPTOR DETAIL (ALTERNATE)
NOT TO SCALE

PARK USA — A Northwest Pipe Company

UNIFORM PLUMBING CODE (UPC) METHOD – GRAVITY GREASE INTERCEPTOR SIZING TOOL		
Fixture Type	**Number of Fixtures**	**Drainage Fixture Units (DFUs)**
3-Compartment Sink 1-1/2"		0
3-Compartment Sink 2"	2	8
2-Compartment Sink 1-1/2"	0	0
Dishwasher 2"	2	8
Floor Sink 3"	12	72
Mop Sink 1.5"	0	0
Mop Sink 2"	1	4
Mop Sink 3"	0	0
Mop Sink 4"	0	0
Pot Sink (pre-rinse sink) 1.5"	0	0
Pot Sink (pre-rinse sink) 2"	1	4
Hand Sink 1.25"	0	0
Hand Sink 1.5"	5	10
Floor Drain 1.5"		0
Floor Drain 2"		0
Floor Drain 3"	0	0
Floor Drain 4"	0	0
Trench Drain 4"	0	0
Prep and Pretrash Sinks 4"	0	0
CALCULATED DFU:		177
SIZE:		GT-2000

GREASE INTERCEPTOR SCHEDULE						BASIS OF DESIGN: PARK USA, GT-1			
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"
GT-1250	1,250	2,900	14,650	9'-2"	5'-8"	6'-0"	4'-9"	4'-6"
GT-1500	1,500	3,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"
GT-2500	2,500	5,700	27,350	13'-0"	7'-0"	7'-0"	5'-9"	5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-9"	6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

SAMPLE WELL

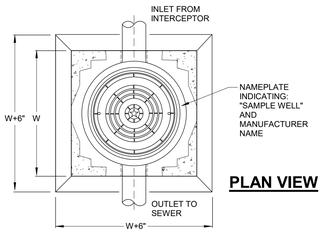


FRONT VIEW

SIDE VIEW

SAMPLE WELL APPLICATION NOTES:

1. USE PIPE SIZE NOTED IN FLOOR PLANS AND SITE PLAN.
2. USE 15" DIAMETER FOR INSTALLATION 6'-0" DEEP AND LESS.
3. USE 24" DIAMETER FOR INSTALLATION GREATER THAN 6'-0" DEEP (STD RING AND M.H. COVER REQUIRED).
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE).
5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE.
6. INSTALLATION INSIDE BLDG MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE IS PERMITTED, AND AIR-TIGHT COVER IS REQUIRED.
7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE.
9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.



PLAN VIEW

SPECIFICATIONS:

CONCRETE: CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

SAMPLE WELL SIZES		BASIS OF DESIGN: PARK USA	
MODEL NO.	DIAMETER	IN AND OUT PIPE SIZE	WIDTH
SWB-154	15"	4"	24"
SWB-156	15"	6"	24"
SWB-158	15"	8"	24"
SWB-184	18"	4"	28"
SWB-186	18"	6"	28"
SWB-188	18"	8"	28"
SWB-244	24"	4"	34"
SWB-246	24"	6"	34"
SWB-248	24"	8"	34"

2 CONCRETE GREASE INTERCEPTOR SAMPLE WELL DETAIL (ALTERNATE)
NOT TO SCALE

GREASE INTERCEPTOR CALCULATIONS

Quote: AB788DD3

Reference No. 90215 — Project Name: DISD Harry Stone

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
2 Compartment Sink	2 Compartment Sink	21" x 21" x 14" (2)	1	12,348	20.05 GPM
3 Compartment Sink	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30.07 GPM
Dishwasher	Dishwasher (Conveyor)	25 gal.	1	5,775	12.5 GPM
Floor Drain	Floor Drain	N/A	11	N/A	0 GPM
Floor Sink	Floor Sink	N/A	9	N/A	0 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	4	2,800	4.56 GPM
Mop Basin	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Prep Sink One Bowl	Prep Sink One Bowl	21" x 21" x 14"	3	18,522	30.06 GPM
Total					**106.58 GPM**

Flow rate used to size interceptor (less of fixture or pipe size)
Pipe size (4 in):
Pipe Size flow rate per Manning's Formula — **75 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 1200
Grease production value: 0.0455 lbs per serving (Cafeteria - Full Serve: High / Flatware)
Days between pump-outs: 90 days

1200 x 0.0455 x 90 = 4914 lbs of FOG

SCHIER MODEL	
GB-1000	**Description:** GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS **Dimensions:** Length: 92", Width: 73.75", Height: 71.25" **Flow Rate/Grease Capacity:** 100 GPM / 5495 lbs **Liquid Capacity:** 1000 gal

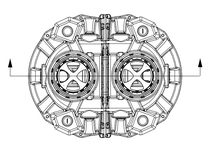
Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

SPECIFICATION:
SCHIER GREAT BASIN GREASE INTERCEPTOR MODEL #GB-1000 (4080-031-01) SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED POLYETHYLENE WITH MINIMUM 7/16" UNIFORM WALL THICKNESS. INTERCEPTOR SHALL BE FURNISHED FOR ABOVE OR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTER, SAFETY STAR® ACCESS RESTRICTOR BUILT INTO EACH COVER ADAPTER. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE D) AND CSA B481.1. INTERCEPTOR FLOW RATE SHALL BE 100 GPM OR 200 GPM. INTERCEPTOR GREASE CAPACITY SHALL BE 5,495 LBS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY.

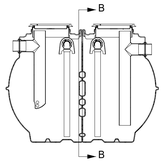
GREAT BASIN HYDROMECHANICAL GREASE INTERCEPTORS ARE THIRD PARTY PERFORMANCE-TESTED AND LISTED BY IAPMO TO ASME #A112.14.3 AND CSA B481.1 GREASE INTERCEPTOR STANDARDS AND GREATLY EXCEED REQUIREMENTS FOR GREASE SEPARATION AND STORAGE. THEY ARE COMPLIANT TO THE UNIFORM PLUMBING CODE AND THE INTERNATIONAL PLUMBING CODE.

NOTES:
2. 6" PLAIN END INLET/OUTLET.
3. UNIT WEIGHT - W/ CAST IRON COVERS: 824 LBS. (FOR WET WEIGHT ADD 8,413 LBS.)
4. MAXIMUM OPERATING TEMPERATURE: 150º F CONTINUOUS
5. CAPACITIES
   - LIQUID: 1,000 GAL.
   - GREASE: 5,495 LBS. (753 GAL.) @100 GPM
   - GREASE: 4,959 LBS. (679 GAL.) @200 GPM
   - SOLIDS: 211 GAL.
6. SATISFIES MIAMI DERM 99% EFFICIENCY REQUIREMENTS; RETAINING THE FOLLOWING CAPACITIES AT 99% EFFICIENCY:
   - 5,272 LBS. (722 GAL.) @100 GPM
   - 3,127 LBS. (482 GAL.) @200 GPM
7. FOR GRAVITY DRAINAGE APPLICATIONS ONLY.
8. DO NOT USE FOR PRESSURE APPLICATIONS.
9. COVER PLACEMENT ALLOWS FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
10. VENT NOT REQUIRED UNLESS PER LOCAL CODE.
11. ENGINEERED INLET AND OUTLET DIFFUSERS WITH INSPECTION PORTS ARE REMOVABLE TO INSPECT / CLEAN PIPING.
12. INTEGRAL AIR RELIEF / ANTI-SIPHON / SAMPLING ACCESS.
13. ADJUSTABLE COVER ADAPTERS PROVIDE UP TO 4" OF ADDITIONAL HEIGHT.
14. DESIGNED FOR BELOW-GRADE, ABOVE-GRADE, INDOOR OR OUTDOOR INSTALLATIONS.
15. SAFETY STAR®, ACCESS RESTRICTOR BUILT INTO EACH COVER ADAPTER, PREVENTS ACCIDENTAL ENTRY TO TANKS (450 LB RATING).
16. PROVIDE HDPE PLASTIC INFLOW PROTECTOR ON EACH MANHOLD LID EQUAL TO WOLVERINE.

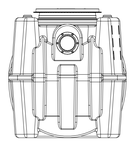


TOP VIEW
(COVERS REMOVED FOR CLARITY)

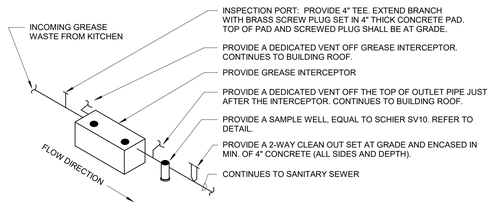
ISOMETRIC VIEW



SECTION A-B

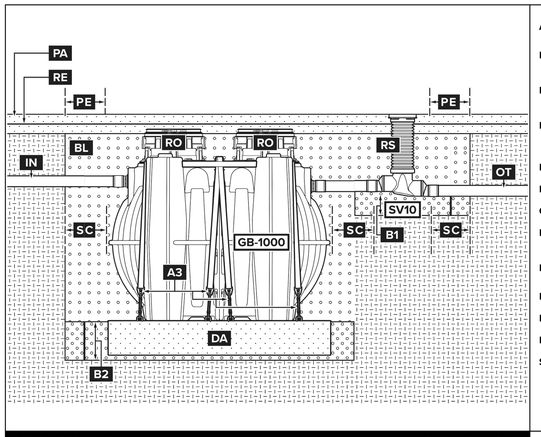


END VIEW



3 POLYURETHANE GREASE INTERCEPTOR DETAIL (BASE BID)
NOT TO SCALE

Quote: AB788DD3



DETAIL DISD Harry Stone — **Outdoors, Below Grade**

GB-1000 GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS
SV10 SEWER VIEWER SAMPLING PORT, 4" CONNECTIONS (FIELD MODIFIABLE TO 6"), POLYETHELENE COVER

Disclaimer: this Detail represents manufacturer directed guidance regarding the grease interceptor system. The contents of this document are not a substitute for local jurisdiction requirements and plumbing code standards. Please follow all local ordinances when installing.

A3 AK3 anti-flotation anchor kit for high water table installations

B1 6" minimum compacted base - clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines.

B2 12" minimum compacted base - clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines.

BL Backfill evenly around the interceptor and risers with clean, crushed stone approximately 1" in size (AASHTO M43 Size #57 or similar) free of debris and fines.

DA Deadmen anchor (by others)

IN 4" diameter inlet pipe

OT 4" diameter outlet pipe

PA Minimum 8" thick concrete pad with rebar required for vehicular traffic. Concrete to be 28 day compressive strength to 4,000 PSI.

PE Pad to extend 18" minimum beyond edge of tank on all sides.

RE No. 4 rebar, grade 60 steel

RO FP24 Fast Pitch® riser(s) to grade

RS FCR10 field cut riser to grade

SC 12" clear all sides

SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS
schierproducts.com

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — RAISE STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING DETAILS - GREASE

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Mechanical - Electrical Engineers
17300 North Dallas Parkway, Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel 972/239-5357
Fax 972/239-5231
www.purdy-mcguire.com

PM# JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

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FILE INFO: J:\Autodesk Docs\R22301.01_DISD Harry Stone Montessori Academy Renov - R22\22301.01_DISD Harry Stone Montessori Acad Renv_PLUMB_R23.rvt

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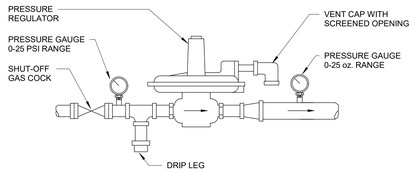
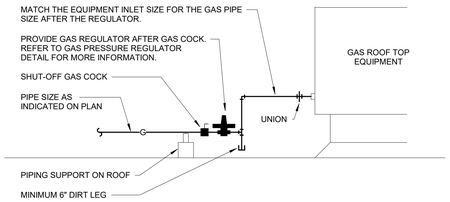
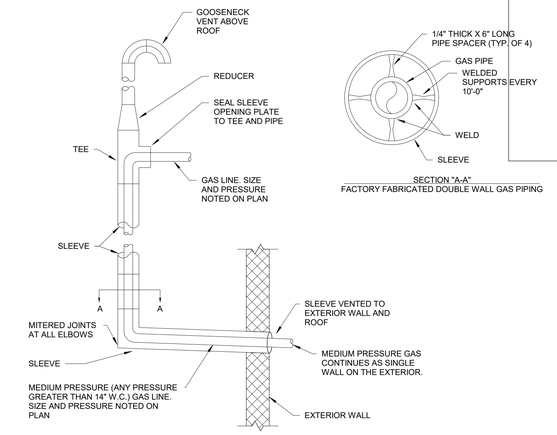


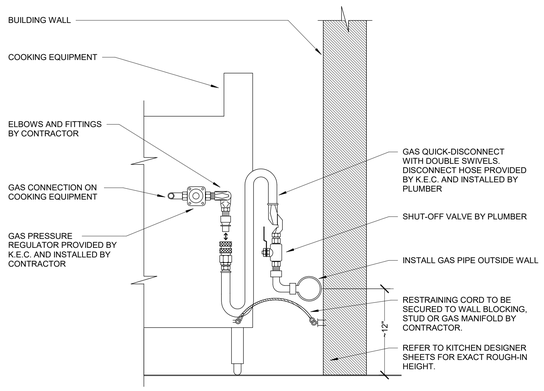
1 GAS PRESSURE REGULATOR DETAIL1
NOT TO SCALE



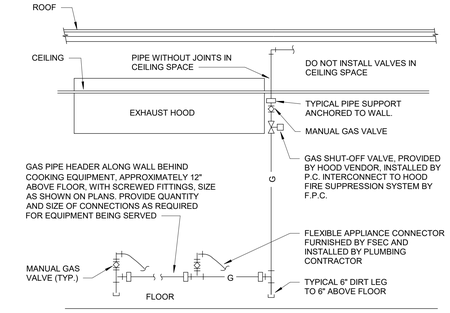
2 ROOF TOP EQUIPMENT GAS PIPING CONNECTION DETAIL
NOT TO SCALE



4 MEDIUM PRESSURE GAS SLEEVE DETAIL1
NOT TO SCALE

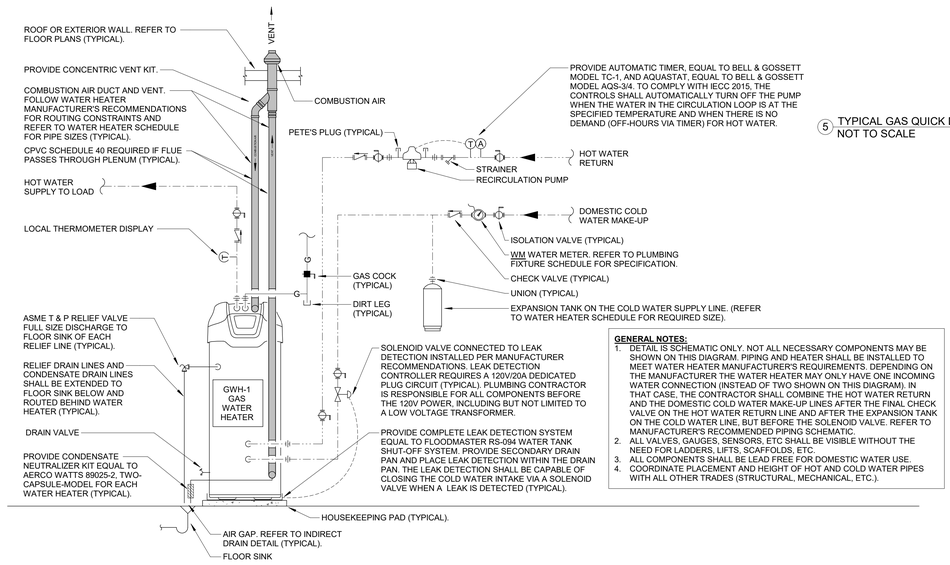


5 TYPICAL GAS QUICK DISCONNECT DETAIL1
NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. ATTACH RISER AND HEADER TO WALL WITH 1" CLEARANCE BEHIND PIPE. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION

6 KITCHEN HOOD AND COOKING APPLIANCE GAS PIPE DETAIL1
NOT TO SCALE



GENERAL NOTES:

1. DETAIL IS SCHEMATIC ONLY. NOT ALL NECESSARY COMPONENTS MAY BE SHOWN ON THIS DIAGRAM. PIPING AND HEATER SHALL BE INSTALLED TO MEET WATER HEATER MANUFACTURER'S REQUIREMENTS. DEPENDING ON THE MANUFACTURER THE WATER HEATER MAY ONLY HAVE ONE INCOMING WATER CONNECTION (INSTEAD OF TWO SHOWN ON THIS DIAGRAM). IN THAT CASE, THE CONTRACTOR SHALL COMBINE THE HOT WATER RETURN AND THE DOMESTIC COLD WATER MAKE-UP LINES AFTER THE FINAL CHECK VALVE ON THE HOT WATER RETURN LINE AND AFTER THE EXPANSION TANK ON THE COLD WATER LINE, BUT BEFORE THE SOLENOID VALVE. REFER TO MANUFACTURER'S RECOMMENDED PIPING SCHEMATIC.
2. ALL VALVES, GAUGES, SENSORS, ETC SHALL BE VISIBLE WITHOUT THE NEED FOR LADDERS, LIFTS, SCAFFOLDS, ETC.
3. ALL COMPONENTS SHALL BE LEAD FREE FOR DOMESTIC WATER USE.
4. COORDINATE PLACEMENT AND HEIGHT OF HOT AND COLD WATER PIPES WITH ALL OTHER TRADES (STRUCTURAL, MECHANICAL, ETC.).

7 WATER HEATER DETAIL - SINGLE GAS UNIT
NOT TO SCALE

KEY PLAN

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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.DAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING DETAILS - GAS

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED — PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
P507
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WATER HEATER SCHEDULE

DESIGNATION	TYPE	SERVES	STORAGE CAPACITY (GALLONS)	RECOVERY (GPH/GPM)	AVERAGE GROUND WATER (°F) (ENTERING WATER TEMPERATURE)	DEGREE RISE (°F)	MINIMUM SETPOINT (°F) (LEAVING WATER TEMPERATURE)	ELECTRICAL				NATURAL GAS				EFFICIENCY	PHYSICAL		BASIS OF DESIGN		NOTES
								INPUT (WATTS)	VOLTAGE	PHASE	FULL LOAD AMPS	INPUT (MBH)	OUTPUT (MBH)	FLUE SIZE (INCHES)	GAS CONNETION		DIMENSIONS	WEIGHT (LBS)	MANUFACTURER	MODEL	
GWH-1	NATURAL GAS	9 KITCHEN SINKS, 1 PUBLIC LAVATORY, 1 MOP SINK, 1 CLOTHES WASHER	199	460 GPH	62 - 67	100	140	500	120	1	5	399	300	4	GAS INLET PIPE SIZE: 3/4" PRESSURE: 7-14" W.C.	97%	28" DIAMETER 76" HEIGHT	553	A.O. SMITH	BTH-400 MXI	NOTE 1,3,4 & 5

GENERAL NOTES (APPLIES TO ALL):
- A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
- C WATER HEATER SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM.
- D SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
  - A. CHRONOMITE LABORATORIES, INC.
  - B. EEMAX, INC.
  - C. RHEEM WATER HEATER DIV.; RHEEM MANUFACTURING COMPANY
  - D. RUUD WATER HEATER DIV., RUUD MANUFACTURING COMPANY
  - E. BRADFORD WHITE CORPORATION
  - F. A.O. SMITH WATER PRODUCTS
  - G. STATE INDUSTRIES
  - H. LOCHINVAR
  - I. PVI
- E ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

NOTES:
1. PROVIDE SOLENOID VALVE AND LEAK DETECTION. COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
2. FOR ELECTRIC TANK WATER HEATERS, UPPER AND LOWER ELEMENTS TO BE WIRED FOR BOTH INDEPENDANT AND SIMULTANEOUS OPERATION.
3. FOR GAS WATER HEATERS, PACKAGED UNITS SHALL BE WITH ALL STANDARD FEATURES AND SHALL INCLUDE LOW-NOX OPERATION.
4. FOR GAS WATER HEATERS, FIRING CONTROL SYSTEM SHALL BE 5:1 TURNDOWN WITH CATEGORY IV VENTING.
6. PROVIDE THIS HEATER WITH THE MANUFACTURER'S INTEGRAL DISCONNECT, EQUAL TO "CHRONOMITE DISCONNECT SWITCH, ROTARY 40A – LOCKABLE NEMA 4X (2095-01)"
7. HEATER SHALL HAVE FIELD ADJUSTABLE TEMPERATURE OUTPUT. EQUAL TO "CHRONOMITE FIELD ADJUSTABLE TEMPERATURE (ADJ)".
8. PROVIDE HEATER WITH RECESSED WALL BOX, EQUAL TO "CHRONOMITE INVIZIBLE (Z-S1616D)" WITH OVERALL DIMENSIONS 16-1/2" X16-1/2" x 5-1/4". CONCEALED WALL BOX SHALL HOUSE HEATER AND ELECTRICAL DISCONNECT BEHIND A PANEL IN THE WALL.
5. FOR GAS WATER HEATERS, PROVIDE CONCENTRIC VENTING PIPING KIT TO MEET THE CAT IV VENTING REQUIREMENTS FOR THE UNITS.

EXPANSION TANK SCHEDULE

DESIGNATION	TYPE	SERVES	TANK TOTAL VOLUME (GAL)	TANK ACCEPTANCE VOLUME (GAL)	MAXIMUM PRESSURE (PSI)	MAXIMUM OPPERATING TEMPERATURE (°F)	PHYSICAL		MOUNTING	BASIS OF DESIGN		NOTES
							DIMENSIONS	FILLED WEIGHT (LBS)		MANUFACTURER	MODEL	
ET-1	BLADDER	GWH-1	8	5.3	150	240	12" DIAMETER 20" HEIGHT	34	FLOOR MOUNTED	WATTS	DELTA-20	

GENERAL NOTES (APPLIES TO ALL):
- A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
- C EXPANSION TANK SHALL BE ASME RATED.
- D EXPANSION TANK SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM.
- E PLUMBING CONTRACTOR SHALL SET THE EXPANSION TANK PRESSURE CHARGE IN THE FIELD BASED ON THE PRESSURE OF THE COMPLETED SYSTEM FULLY INSTALLED WITH INCOMING CITY PRESSURE CONNECTED. PLUMBING CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTRUCTIONS FOR SETTING THIS CHARGE IN THE FIELD. THE EXPANSION TANK SHALL NOT BE LEFT AT THE FACTORY PRE-CHARGE SETTING OF 40 PSI.
- F SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
  - A. WATTS
  - B. AMTROL
  - C. BELL & GOSSETT (B&G)
  - D. SAME MANUFACTURER AS THE SPECIFIED WATER HEATER
- G ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

NOTES:
1. NOT USED.

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

DESIG.	SERVES	TYPE	GPM	HEAD (FT)	MOTOR DATA				BASIS OF DESIGN		ELECTRICAL				NOTES
					EFF (%)	HP	RPM	VFD	MANUFACTURER	MODEL	VOLT	PH	FULL LOAD AMPS (FLA)	MAXIMUM OVERCURRENT PROTECTION DEVICE (MOCP)	
RP-1	EWH-X	POTABLE WATER	0-21	0-19	XX	0.06	XXXX	YES	GRUNDFOS	ALPHA2 15-55SF/LC, STAINLESS STEEL, AUTO ADAPT, CORD PLUG	120	1	5-45 W, 0.65 FLA	20A/1P CIRCUIT BREAKER SIZE	ALL

GENERAL NOTES (APPLIES TO ALL):
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS
2. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, APPROVED MANUFACTURERS ARE: B&G, PACO/GRUNDFOS, TACO, ARMSTRONG.
3. ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.
4. ALL PUMPS IN POTABLE WATER APPLICATIONS SHALL BE NSF 61 CERTIFIED LEAD FREE AND OF ALL BRONZE OR STAINLESS STEEL CONSTRUCTION.
5. PROVIDE MOTOR RATED CONNECTION SWITCH (FOR HARDWIRED PUMPS) OR A RECEPTACLE (FOR PLUG-IN PUMPS) AT UNIT FOR LOCAL MEANS OF DISCONNECT. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.
6. PROVIDE AUTOMATIC TIMER KIT AND AQUASTAT TO MEET IECC 2015+ COMPLIANCE.

Plumbing Equipment Extended Warranty Schedule - DISD Requirements

Spec Section

	Product	Extended Warranty Description
Division 22 - Plumbing		
220513	Variable frequency drives	30 months parts and labor for all components
220533	Electric heating cables	2 years parts and labor
223300	Commercial electric water heaters - Instantaneous	5 years parts and labor for five years.
223300	Commercial electric water heaters - Tank type	5 years parts and labor resulting from tank leaks.
223400	Commercial fuel-fired water heaters - Tank type	5 years parts and labor for all components.
223400	Commercial fuel-fired water heaters - Instantaneous	5 years parts and labor for all components.
223500	DHW semi-instantaneous heat exchangers	5 years parts and labor for all components.

Notes:
1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

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PROJ. MGR. DESIGN: B.JARRETT
MECHANICAL C. RICCOTTI
PLUMBING R. COTTRELL
ELECTRICAL C.ANKLUNSKI
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KEY PLAN

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4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PLUMBING - SCHEDULES

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED — PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

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P601

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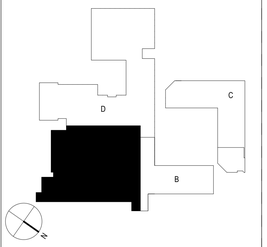

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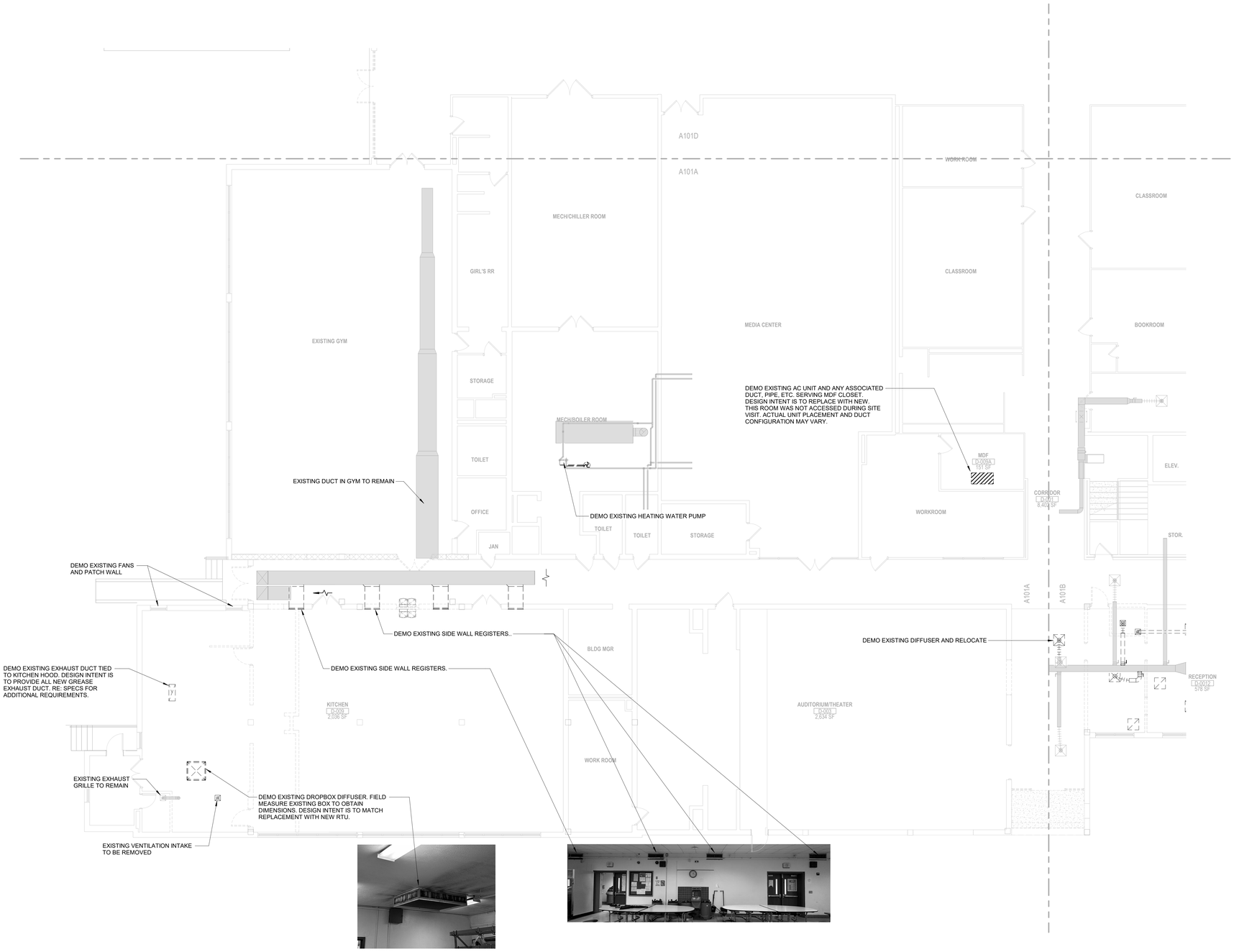

1 LEVEL 01 - MECHANICAL DEMOLITION PLAN - AREA 'A'
1/8" = 1'-0"

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MECHANICAL	L. PEOTTE
PLUMBING	M. MCNEILL
ELECTRICAL	C.ZAMUDINSKI

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FOR
DISD

Moody Nolan

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LEVEL 01 - MECHANICAL DEMOLITION PLAN - AREA 'A'

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

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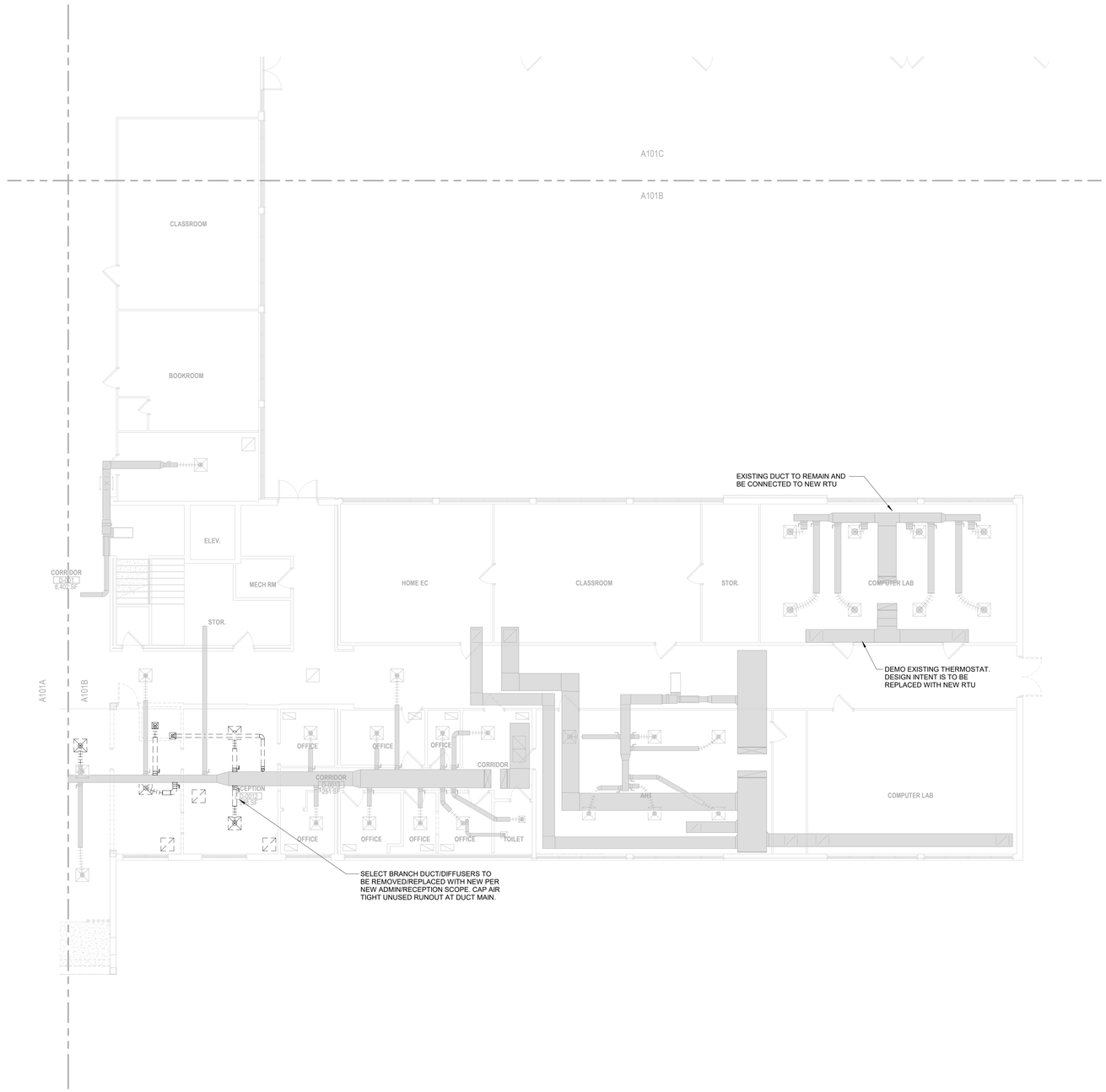
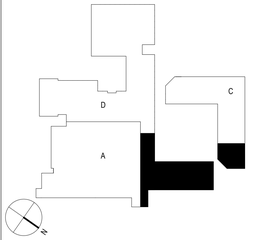


1 LEVEL 01 - MECHANICAL DEMOLITION PLAN - AREA 'B'
1/8" = 1'-0"

KEY PLAN



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(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
RTU-4 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: TRANE
MODEL: YCD181C4LMCB
SERIAL # 542100918D
WEIGHT: 2300-2400 LBS

ELECTRICAL:
MCA: 36A
MCB: 45A

NATURAL GAS INPUT: 250,000 BTUH
NATURAL GAS OUTPUT: 203,000 BTUH

RTU-4

(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
RTU-5 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: TRANE
MODEL: YCD180F4L0BA
SERIAL # 120810292D
WEIGHT: 2300-2400 LBS

ELECTRICAL:
MCA: 38A
MCB: 50A

NATURAL GAS INPUT: 250,000 BTUH
NATURAL GAS OUTPUT: 203,000 BTUH

RTU-5

EXISTING EXHAUST FAN TO REMAIN (TYP.)

OPEN TO ABOVE

(EXISTING TO REMAIN)
AHU-2 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: CARRIER
MODEL: 39MW0xxx
SERIAL # 2211U22605

ELECTRICAL: FED FROM PDA

AHU-2 (EXIST)

RTU-6 (EXIST)

PRICING NOTE:
FAN TO BE REPLACED AND RELOCATED FARTHER AWAY FROM DOAS UNIT. DUCTWORK TO BE ADDED TO ROUTING FROM KITCHEN HOOD.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING FAN TO BE IN GOOD CONDITION.

EXISTING RTU TO BE REMOVED AND REPLACED WITH DOAS-1

EXISTING WEIGHT: 1058 LB

RTU-7

EXISTING EXHAUST FAN TO REMAIN

EXISTING VENTILATION INTAKE TO BE REMOVED

(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
RTU-6 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: TRANE
MODEL: YCD181C4LMCB
SERIAL # 611101292D
WEIGHT: 2300-2400 LBS

ELECTRICAL: FED FROM XX
MCA: 36A
MCB: 45A

NATURAL GAS INPUT: 250,000 BTUH
NATURAL GAS OUTPUT: 203,000 BTUH

AHU-3 (EXIST)

(EXISTING TO REMAIN)
AHU-3 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: CARRIER
MODEL: NOT FOUND
SERIAL # 2211U22609

ELECTRICAL: FED FROM DPA

AHU-5 (EXIST)

(EXISTING TO REMAIN)
AHU-5 (EXISTING NAMEPLATE DATa FOR REFERENCE)
MANUFACTURER: CARRIER
MODEL: 39MW12D020F4T12XCS
SERIAL # 2211U22607

ELECTRICAL: FED FROM DPA

EXISTING EXHAUST FANS TO BE REMOVED. PATCH AND INSULATE ROOF OPENING NO LONGER USED PER ROOFING SPECIFICATIONS.

PRICING NOTE:
EXISTING EXHAUST FAN TO BE REPLACED AND NEW ROOF CURB PROVIDED.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING FAN TO BE IN GOOD CONDITION.

(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
CU-1
MANUFACTURER: TRANE
MODEL: 4TTA3036A4000BA
SERIAL # 112724RT3F

ELECTRICAL: FED FROM XX
MCA: 7A
MCB: 15A

RTU-1

(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
RTU-2
MANUFACTURER: CARRIER
MODEL: 50HC-D08A1M6A2F0A0
SERIAL # 1911G50305

ELECTRICAL: FED FROM AC PANEL

RTU-2

(EXISTING TO BE REPLACED WITH 1-FOR-1 UNIT OF SAME CAPACITY)
RTU-1
MANUFACTURER: CARRIER
MODEL: 50HC-D08A1M6A2F0A0
SERIAL # 1911G50304

ELECTRICAL: FED FROM XX

RTU-3 (EXIST)

(EXISTING TO REMAIN)
RTU-3 (EXISTING NAMEPLATE DATA FOR REFERENCE)
MANUFACTURER: CARRIER
MODEL: 50HC-D17A3M6A2F0A0
SERIAL # 2111U21177

ELECTRICAL: FED FROM AC PANEL

1 ROOF LEVEL - MECHANICAL DEMOLITION PLAN
3/32" = 1'-0"

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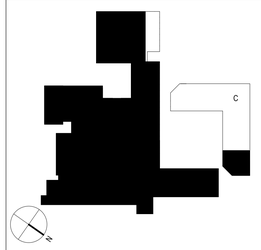

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FOR
DISD

Moody Nolan

DRAWING TITLE:
ROOF LEVEL - MECHANICAL DEMOLITION PLAN

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PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

R22301.01

DM203

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MEP SHARED SYSTEM COORDINATION SCOPE OF WORK MATRIX

SYSTEM OR COMPONENT	FURNISHED BY	INSTALLED BY
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS		
Conduit for Fire Alarm Wiring	E	E
Conduit for Controls Wiring	TC	TC
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS	M	M
Duct Mounted Smoke Detectors	FA	M
Area Type Smoke Detectors	FA	FA
Fire Alarm Shut-Down Interlock Modules	FA	TC
Motorized Control Dampers	MANUFACTURER	MANUFACTURER
24 Volt Power to Dampers	TC	TC
Damper Actuator	TC	M
VRV FAN COIL UNITS AND CONDENSING UNITS		
24 Volt DDC Controllers	TC AND MANUF.	MANUFACTURER
24 Volt Wiring from Transformer to all Controllers	MANUFACTURER	TC
Control Wiring Between FCU Box and Thermostat	MANUFACTURER	TC
FIRE ALARM		
Fire Alarm Panel (FAP) and Fire Alarm Boosters	FA	FA
Fire Alarm System Conduits	FA	FA
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Panel	E	E
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Boosters	E	E
MOTORIZED FIRE & COMBINATION FIRE/SMOKE DAMPERS		
Motorized Fire & Combination Fire/Smoke Dampers	M	M
Control Conduit	E	E
Control Wiring	FA	FA
Power Conduit	E	E
Power Wiring	E	E
LIGHTING CONTROL		
Lighting Control Panel	E	E
Lighting Control Panel to FMS Interface Card	MANUFACTURER	MANUFACTURER
Control Wiring to Master Lighting Control Panel Interface Card from FMS	TC	TC
Control Wiring Between Lighting Control Panels	E	E
Satellite Lighting Control Panels	E	E
Override Switch Wiring	E	E
Lighting Control Panel Override Switches	E	E
Lighting Control Panel Programming	E	E

M = MECHANICAL SUB-CONTRACTOR

E = ELECTRICAL SUB-CONTRACTOR

FA = FIRE ALARM SUB-CONTRACTOR

TC = TEMPERATURE CONTROLS/EMS SUB-CONTRACTOR

D= TELECOMMUNICATIONS CONTRACTOR

MECHANICAL GENERAL NOTES:

A. GENERAL NOTES APPLY TO ALL MECHANICAL SHEETS.
B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES.
C. ALL WORK SHALL BE IN COMPLIANCE WITH THE TENANT/OWNER/CAMPUS DESIGN STANDARDS. CONTRACTOR SHOULD BE FAMILIAR WITH STANDARDS PRIOR TO BID.
D. CONTRACTOR SHALL SPECIFICALLY LIST ANY EXCEPTIONS TO THE CONSTRUCTION DOCUMENTS IN THEIR BID.
E. DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
F. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THAT THE EXISTING DUCTWORK SIZE IS THE SAME AS INDICATED ON THE PLANS AND IS ADEQUATE FOR NO MORE THAN 0.30 OF STATIC PRESSURE PER 100 FEET FOR MEDIUM PRESSURE DUCTWORK BASED ON THE CFM'S INDICATED ON THE PLANS AND THAT EXISTING DIFFUSER NECK SIZES MEET THE REQUIREMENTS AS INDICATED FOR NEW DIFFUSERS.
G. ALL EXISTING DUCTWORK SHALL BE FIELD VERIFIED TO BE INSULATED AND IN GOOD CONDITION, ANY TORN, DAMAGED OR MISSING INSULATION WILL BE REPLACED. EXISTING CONTROLS SHALL BE CONFIRMED TO BE IN WORKING CONDITION.
H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCOPE OF WORK SHOWN IN THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING THE SPECIFICATIONS.
I. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION OF ALL RATED STRUCTURES.
J. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES. PROVIDE COMBINATION FIRE/SMOKE DAMPERS FOR ALL PENETRATIONS THRU SHAFT WALLS AND CORRIDOR WALLS.
K. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEMS.
L. COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
M. ALL SUPPLY, RETURN AND EXHAUST DUCT SIZES INDICATED ARE FREE AREA.
N. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION. REPORT ANY DISCREPANCIES TO THE OWNER/ARCHITECT IMMEDIATELY.
O. CONTRACTOR TO FIELD VERIFY ALL WALLS TO DECK AND PROVIDE TRANSFER BOOTS THRU ALL WALLS TO DECK PER DETAILS. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
P. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS AND SENSORS. COORDINATE LOCATIONS OF T-STATS AND SENSORS WITH ELECTRICAL CONTRACTOR.
Q. ALL MEDIUM PRESSURE DUCTS (BOTH SQUARE AND ROUND) SHALL HAVE RADIUS ELBOWS (45 DEG. AND 90 DEG.).
R. ALL MEDIUM PRESSURE AND LOW PRESSURE DUCT WORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS (MOST RECENT) AND SEAL CLASS A. MEDIUM PRESSURE DUCT SHALL BE 4" W.G. AND LOW PRESSURE DUCT SHALL BE 2" W.G. MEDIUM PRESSURE DUCT SHALL BE LEAK TESTED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE SMACNA AIR DUCT LEAKAGE TEST MANUAL.
S. ALL SUPPLY AIR DUCT, OUTSIDE AIR INTAKE DUCT, AND GREASE EXHAUST DUCT SHALL BE INSULATED PER THE SPECIFICATIONS AND/OR SCHEDULES.
T. INDIVIDUAL DUCT RUN-OUTS TO EACH DIFFUSER SHALL BE SIZED IN ACCORDANCE TO THE DIFFUSER NECK SIZE FOUND IN THE GRILLES-REGISTERS-DIFFUSERS SCHEDULE.
U. PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE. OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER TRADES.
V. INSULATED FLEX DUCT IN THE MEDIUM PRESSURE SYSTEM SHALL BE UTILIZED AT INLET TO VAV BOX OR FAN POWERED BOX ONLY. LENGTH SHALL BE LIMITED TO AN OVERALL LENGTH OF TWO (2) FEET AND BE STRAIGHT RUN. INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE.
W. VAV BOXES AND FAN POWERED BOXES SHALL HAVE UNOBSTRUCTED CLEARANCE TO ALL VALVES AND ACCESS DOORS. SEE FAN POWERED BOX (FPB) AND/OR VARIABLE AIR VOLUME (VAV) BOX REQUIRED NATIONAL ELECTRIC CODE (NEC) CLEARANCE DETAILS FOR ADDITIONAL INFORMATION.
X. PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON ALL RETURN AIR AND EXHAUST OPENINGS AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED.
Y. CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO BOWDEN MODEL 270-896P FOR ALL GYPSUM BOARD APPLICATIONS. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF INSTALLATION.
Z. CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS, AND BETWEEN FERROUS PIPING SYSTEMS AND NON-FERROUS CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE USE OF DIELECTRIC UNIONS, COUPLINGS OR FLANGES AS MANUFACTURED BY CRANE, EPCO, F.M. MALONEY, UNIVERSAL MANUFACTURING CO.
AA. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS, SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.

MECHANICAL INSULATION SCHEDULE

APPLICATION	INSULATION TYPE	THICKNESS	INSULATION FINISH: INDOOR CONCEALED	INSULATION FINISH: INDOOR EXPOSED INCL. MECH ROOMS	INSULATION FINISH: OUTDOOR
CHILLED WATER SUPPLY & RETURN PIPING					
INDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	1"	8F	5F	NA
	CELLULAR FOAM-4i	1"	0F	0F	NA
1-1/2" & LARGER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
	CELLULAR FOAM-4i	1-1/2"	0F	0F	NA
OUTDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	1"	NA	NA	3F
	CELLULAR FOAM-4i	1"	NA	NA	9F
1-1/2" & LARGER:	FIBERGLASS-6i	2"	NA	NA	3F
	CELLULAR FOAM-4i	2"	NA	NA	9F
HEATING WATER SUPPLY & RETURN					
INDOOR 1-1/4" & SMALLER:	FIBERGLASS-6i	1-1/2"	8F	5F	3F
INDOOR 1-1/2" & LARGER:	FIBERGLASS-6i	2"	8F	5F	3F
OUTDOOR - ALL:	FIBERGLASS-6i	3"	NA	NA	3F
CONDENSER WATER SUPPLY & RETURN PIPING					
INDOOR W/ WATER SIDE ECONOMIZER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
INDOOR W/O WATER SIDE ECONOMIZER:	NONE	0	NA	PAINT	NA
STEAM & STEAM CONDENSATE:	MINERAL-FIBER-7i	4-1/2"	10F	10F	NA
OUTDOOR:	FIBERGLASS-6i	2"	NA	NA	3F
REFRIGERANT SUCTION AND/OR HOT-GAS LINE PIPING					
INDOOR:	CELLULAR FOAM-4i	1"	0F	0F	NA
OUTDOOR:	CELLULAR FOAM-4i	1"	NA	NA	9F
				REFRIGERANT LIQUID LINES SO NOT NEED TO BE INSULATED	
MISCELLANEOUS PIPING					
AIR COND. CONDENSATION DRAIN PIPING:	CELLULAR FOAM-4i	1/2"	0F	0F	9F
CHILLED WATER PUMPS:	CELLULAR FOAM-4i	2"	0F	0F	9F
HEATING WATER PUMPS:	CELLULAR FOAM-4i	2"	0F	0F	9F
COND. WATER PUMPS W/ WATER SIDE ECONOMIZER:	CELLULAR FOAM-4i	1"	0F	0F	9F
CHILLED COMPRESSION/EXP. TANK, AIR SEPARATORS, HEAT EXCHANGERS, FILTERS, STRAINERS, VALVES, AND OTHER CHILLED WATER ACCESSORIES:	CELLULAR FOAM-4i	2"	0F	0F	9F
HEATING WATER COMPRESSION/EXP. TANK, AIR SEPARATORS, HEAT EXCHANGERS, FILTERS, STRAINERS, VALVES, AND OTHER ACCESSORIES:	FIBERGLASS-2i OR 6i	2"	8F	5F	3F
DUCTWORK					
CONCEALED SUPPLY & OA DUCTS:	FIBERGLASS 3i	2"	6F	NA	NA
EXPOSED SUPPLY DUCTS AND OUTSIDE AIR DUCTS IN PUBLIC AREAS:	FIBERGLASS 5i	1.5"	NA	0F	NA
	FIBERGLASS 2i	2"	NA	6F	NA
EXPOSED SUPPLY/OA DUCTS, AND PLENUMS IN MECH ROOMS/ BOH AREAS:	FIBERGLASS 2i	1"	NA	6F	NA
SUPPLY, RETURN AND OUTSIDE AIR DUCTS LOCATED OUTDOORS:	FIBERGLASS 2i	TOTAL R-VALUE OF R-8	NA	NA	7F
KITCHEN HOOD EXHAUST:	FIREMASTER FASTWRAP	2 LAYERS OF 1-1/2"	NA	NA	NA

GENERAL NOTES (APPLIES TO ALL):
- NOT ALL PIPE AND DUCT TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

INSULATION MATERIALS:
1i. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGREES F SHALL BE 0.55, MUST ASTM C411 TO 1200 DEGREES F, AND MUST MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SMOKE DEVELOPED.
2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT3. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 250 DEGREES F (FACED) AND 450 DEGREES F (UNFACED). NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
3i. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.30, MUST PASS ASTM C411 TO 250 DEGREES F FACED. DENSITY SHALL BE 0.75 LBS/FT3. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.
4i. CELLULAR FOAM - EQUAL TO AP/ARMAFLEX TUBES OR SHEETS, AS APPLICABLE TO INSTALLATION. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.28. MAXIMUM OPERATING TEMPERATURE OF 200 DEGREES F. MUST MEET NFPA 255 AND UL723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FREE OF ANY CFCS,HFCS, OR HCFCS
5i. FIBERGLASS DUCT LINER W/ ANTIMICROBIAL RESISTANT COATING OR CLOSED-CELL ELASTOMERIC DUCT LINER - REFER TO SECTION 23313 FOR ADDITONAL INFORMATION
6i. FIBERGLASS PIPE INSULATION ONLY WHERE SPECIFICALLY CALLED FOR ON DRAWINGS OR IN SPECS - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24, MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II.
NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES:
0F. PAINT GRIP FINISH
1F. 0.010" T-304 STAINLESS STEEL JACKETING -- CORRUGATED. PROVIDE 3/16" CORRUGATED ROLL JACKETING FOR PIPING AND TANKS LESS THAN 6 FEET DIAMETER AND DEEP CORRUGATED SHEETS FOR DIAMETERS LARGER THAN 6 FEET.
2F. 0.010" T-304 STAINLESS STEEL JACKETING -- SMOOTH FINISH
3F. CORRUGATED ALUMINUM -- 0.016" UP THROUGH 24" PIPE SIZE, 0.024" LARGER THAN 24".
4F. SMOOTH ALUMINUM -- 0.016" UP THROUGH 12" PIPE SIZE, 0.024" LARGER THAN 12".
5F. 20-MIL PVC (25 FLAME SPREAD AND 50 SMOKE DEVELOPED.)
6F. FOIL/REINFORCED/KRACT JACKET (VAPOR BARRIER).
7F. 1/4-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.
8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER).
9F. WATER BASED LATEX ENAMEL WEATHER RESISTANT AND UV RESISTANT FINISH EQUAL TO ARMAFLEX WB FINISH
10F. 125 MILS THICK EXTRUDED, BLACK, HIGH DENSITY POLYETHYLENE (HDPE). INNER SURFACE SHALL BE OXIDIZED BY MEANS OF CORONA OR FLAME TREATMENT.
NA. NOT APPLICABLE OR NONE REQUIRED.

MECHANICAL PIPING, FITTINGS, & JOINTS SCHEDULE

APPLICATION	MATERIAL	FITTINGS	JOINTS
HEATING WATER			
UNDERGROUND	PREINSULATED	WELDED	WELDED
ABOVEGROUND			
2" AND SMALLER	COPPER	WROUGHT-COPPER	BRAZED
		*PRESS FITTINGS ACCEPTED	
	SCHEDULE 40 BLACK STEEL	MALLEABLE-IRON	THREADED
		CAST-IRON FLANGED	
2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL	WELDED FLANGE
		FLANGE	
		MECHANICALLY GROOVED-END FITTINGS AND COUPLINGS MAY BE USED IN MECH ROOM ONLY	
12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED	GROOVED
		MECHANICAL JOINT COUPLINGS	
		GROOVED TYPE COUPLINGS AND FITTINGS MAY NOT BE USED AT RISERS OR CONCEALED AREAS	
CHILLED/ CONDENSER WATER			
UNDERGROUND			
OUTSIDE BUILDING FOOTPRINT	PREINSULATED	WELDED	WELDED
WITHIN BUILDING FOOTPRINT	COPPER	WROUGHT-COPPER	BRAZED
ABOVEGROUND			
2" AND SMALLER	COPPER	WROUGHT-COPPER	BRAZED
		*PRESS FITTINGS ACCEPTED	
	SCHEDULE 40 BLACK STEEL	MALLEABLE-IRON	THREADED
		CAST-IRON FLANGED	
2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL	WELDED FLANGE
		FLANGE	
		MECHANICALLY GROOVED-END FITTINGS AND COUPLINGS MAY BE USED IN MECH ROOM ONLY	
12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED	GROOVED
		MECHANICAL JOINT COUPLINGS	
		GROOVED TYPE COUPLINGS AND FITTINGS MAY NOT BE USED AT RISERS OR CONCEALED AREAS	
CONDENSATE			
	COPPER	WROUGHT COPPER	SOLDERED
REFRIGERANT			
	ACR	WROUGHT COPPER	BRAZED

1. *SHARKBITE IS NOT ACCEPTED. ACCEPTABLE PRESS FITTINGS MANUFACTURER ARE: NIBCO, VIEGA-PROPRESS, VIEGA MEGAPRESS, PARKER-ZOOMLOCK (REFRIGERANT PIPING ONLY).
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. NOT ALL PIPE TYPES MAY BE USED. REFER TO FLOOR PLANS FOR FURTHER DETAILS.

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	COMPRESSED AIR PIPING AND EQUIPMENT
CWR	CONDENSER WATER PIPING RETURN
CWS	CONDENSER WATER PIPING SUPPLY
CHR	CHILLED WATER PIPING RETURN
CHS	CHILLED WATER PIPING SUPPLY
HS	HEATING WATER PIPING SUPPLY
HR	HEATING WATER PIPING RETURN
C	CONDENSATE DRAIN PIPING
R	REFRIGERATION PIPING
	PIPE UP
	PIPE DOWN
	BLIND FLANGE
	CONCENTRIC REDUCER OR INCREASER
	UNION
	CAPPED OR PLUGGED PIPE
	HEAT TRACE PIPE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	BALL VALVE
	WATER BALANCING COCK
	BALL VALVE WITH 3/4" HOSE THREAD ADAPTOR
	PRESSURE REDUCING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
S	SOLENOID VALVE
R	GAS PRESSURE REGULATOR
	CONNECT TO EXISTING
T	THERMOSTAT
C	COMBINATION CO2 & TEMPERATURE SENSOR
%/%	COMBINATION TEMPERATURE & HUMIDITY SENSOR
S	REMOTE TEMPERATURE SENSOR
S	SMOKE DEFECTOR
H	HUMIDISTAT
CFM	CUBIC FEET PER MINUTE (AIR FLOW)
RD	ROUND DUCT
DIA.	DIAMETER
SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
A.F.F.	ABOVE FINISH FLOOR
B.F.F.	BELOW FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
SQFT	SQUARE FEET
GPM	GALLONS PER MINUTE
E	EXISTING EQUIPMENT
ER	EXISTING EQUIPMENT TO BE RELOCATED
	FAN POWERED BOX WITH ELECTRIC HEAT
	VARIABLE AIR VOLUME BOX
	VARIABLE AIR VOLUME BOX WITH HEAT
	WALL TO DECK
	1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL
	3 HOUR FIRE RATED WALL
	SMOKE RATED WALL

NOTES:
1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND MECHANICAL SCHEDULES FOR ACTUAL SIZES.

SYMBOL	DESCRIPTION
	24" SLOT DIFFUSER (SLOTS UTILIZED FOR EXHAUST SHALL BE HARD DUCTED OR PROVIDED WITH NEGATIVE PRESSURE RATED FLEX DUCT)
	48" SLOT DIFFUSER (SLOTS UTILIZED FOR EXHAUST SHALL BE HARD DUCTED OR PROVIDED WITH NEGATIVE PRESSURE RATED FLEX DUCT)
	24"x24" SUPPLY AIR DIFFUSER
	24"x24" RETURN AIR DIFFUSER
	24"x12" RETURN AIR GRILLE
	24"x24" EXHAUST AIR GRILLE
24"X10"	MECHANICAL DUCT
24"X10"	LINED MECHANICAL DUCT
24"X10"	RECTANGULAR DUCT UP - MITERED ELBOW
	RECTANGULAR DUCT DOWN - RADIUS ELBOW
	RECTANGULAR DUCT UP - RADIUS ELBOW
	ROUND DUCT UP
	ROUND DUCT DOWN
	MITERED ELBOW W/ TURNING VANES
	MITERED TEE W/ TURNING VANES
	MITERED TEE WITHOUT TURNING VANES
	MITERED ELBOW
	RADIUS TEE
	RADIUS ELBOW
	SPIN-IN FITTING WITH INTEGRAL DAMPER (RECTANGULAR TO ROUND)
	TWO SIDED TRANSITION (RECTANGULAR DUCT)
	ONE SIDED TRANSITION (RECTANGULAR DUCT)
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	RECTANGULAR TO ROUND TRANSITION
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW MEDIUM PRESS. DUCT
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW MEDIUM PRESS. DUCT
	TRANSFER AIR DUCT / RETURN BOOT
	SIDEWALL GRILLE
	SUPPLY
	RETURN
	FLEXIBLE DUCT
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
	MANUAL VOLUME CONTROL DAMPER

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

MECHANICAL APPLICABLE CODES

- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- NATIONAL FIRE PROTECTION AGENCY STANDARDS (NFPA)
- DALLAS ISD DESIGN GUIDELINES
- CITY OF DALLAS, TEXAS LOCAL AMENDMENTS

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PMI JOB NO. 22102.002
PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PEGOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI

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KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL NOTES & SYMBOLS

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

R22301.01

M001

100% CD'S SUBMITTAL

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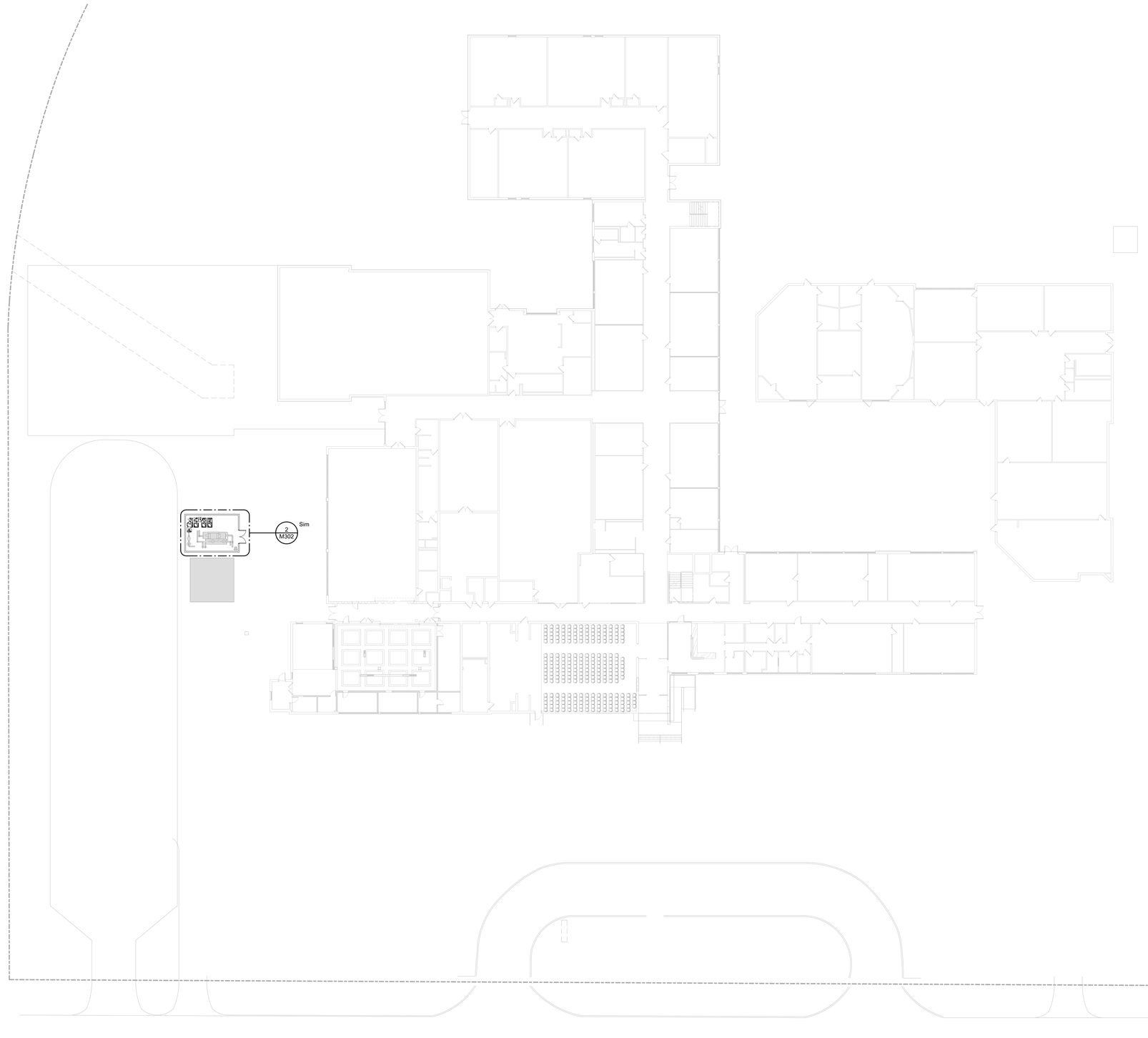
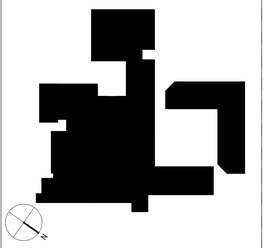


1 MECHANICAL SITE PLAN
1" = 20'-0"

KEY PLAN



#	DATE	CHANGE DESCRIPTION

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PROJECT MGR.	C.BARTON, B.JARRETT
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PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT
BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL SITE PLAN

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

	12.02.2025
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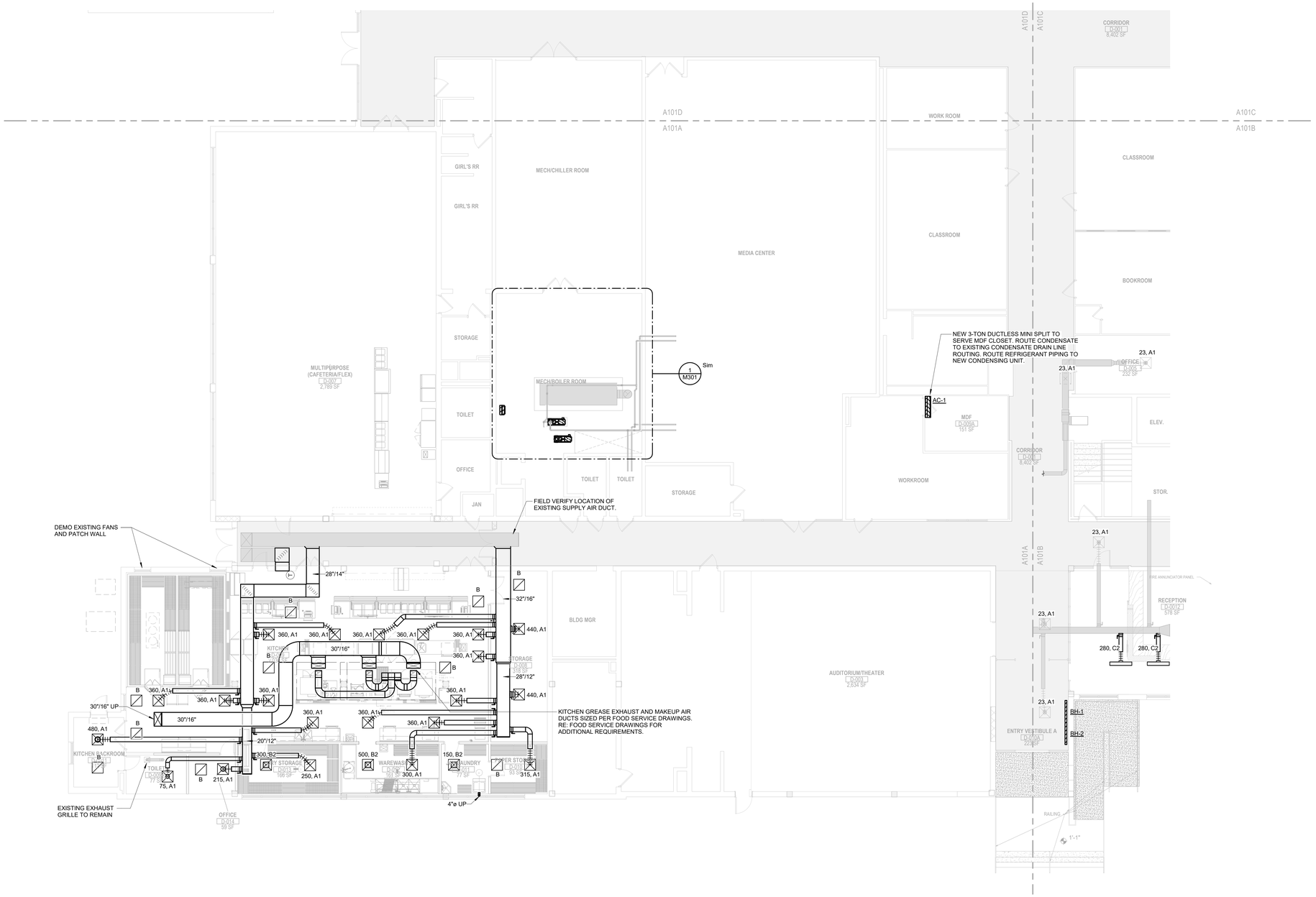
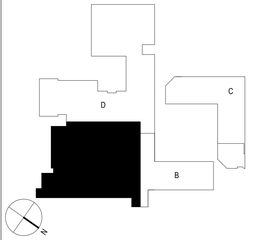


1 LEVEL 01 - MECHANICAL PLAN - AREA 'A'
1/8" = 1'-0"

KEY PLAN



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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - MECHANICAL PLAN - AREA 'A'

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Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel. 972/239-5357
Fax. 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 22102.002
PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI

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STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

R22301.01

M201A

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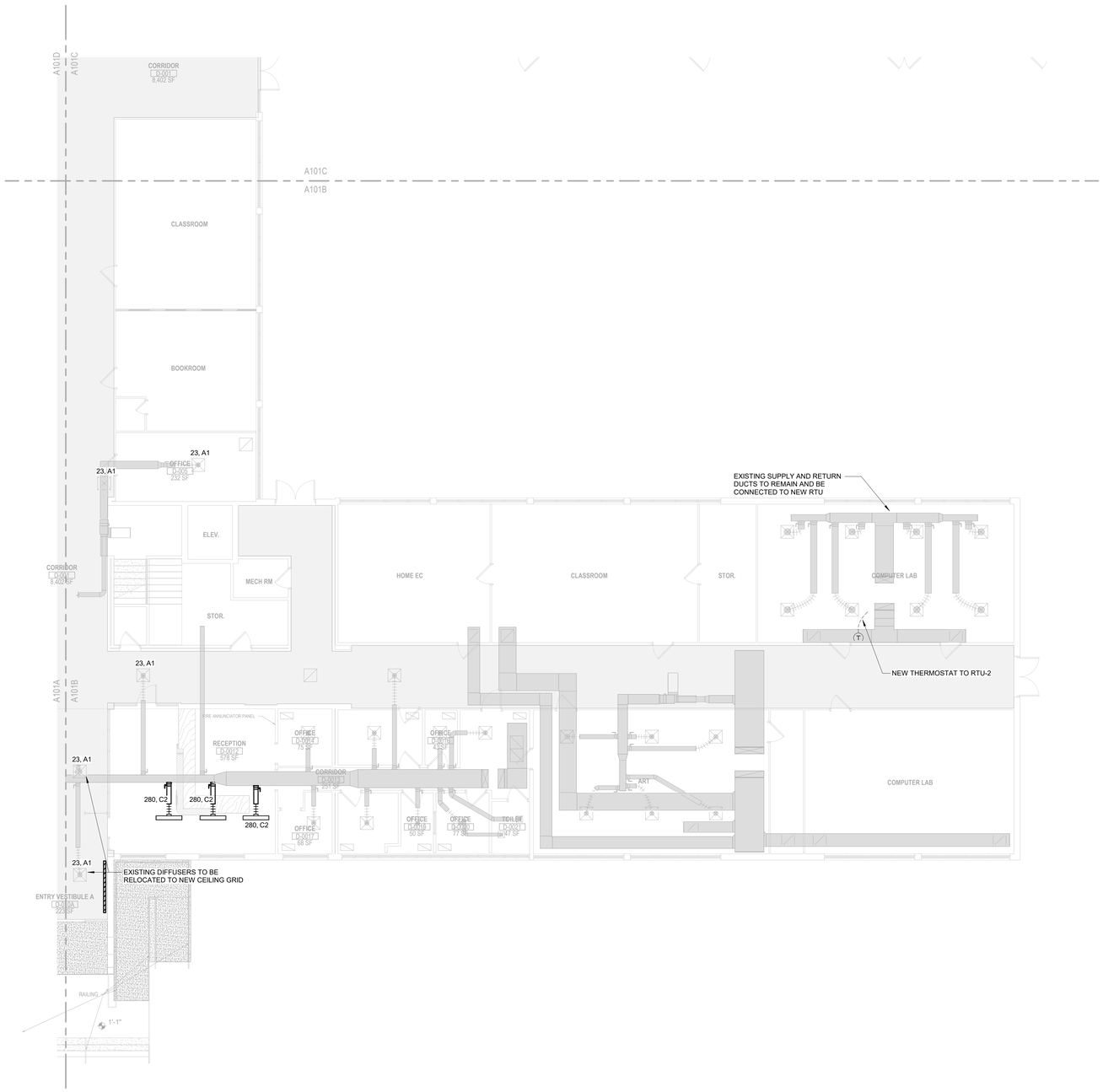
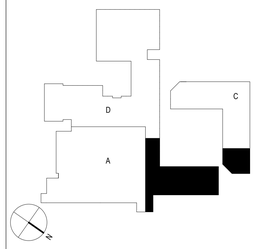


1 LEVEL 01 - MECHANICAL PLAN - AREA 'B'
1/8" = 1'-0"

KEY PLAN



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MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212

4747 Veterans Dr, Dallas, TX 75216

FOR

DISD

Moody Nolan

DRAWING TITLE:

LEVEL 01 - MECHANICAL PLAN - AREA 'B'

STATE OF TEXAS
BRANDON S. JARRETT
108664
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PROFESSIONAL ENGINEER
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(EXISTING)
RTU-4
MANUFACTURER: TRANE
MODEL: YCD181C4LMCB
SERIAL # 54210918D
WEIGHT: 2300-2400 LBS

ELECTRICAL:
MCA: 36A
MCB: 45A

NATURAL GAS INPUT: 250,000 BTUH
NATURAL GAS OUTPUT: 203,000 BTUH

(EXISTING)
RTU-5
MANUFACTURER: TRANE
MODEL: YCD180F4L0BA
SERIAL # 120810292D
WEIGHT: 2300-2400 LBS

ELECTRICAL:
MCA: 38A
MCB: 50A

NATURAL GAS INPUT: 250,000 BTUH
NATURAL GAS OUTPUT: 203,000 BTUH

RTU-4

RTU-5

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

EXISTING RTUs ARE ELEVATED ON STRUCTURAL PLATFORM ON ROOF. NEW ROOF CURBS NOT REQUIRED. DESIGN INTENT IS TO RE-USE EXISTING STRUCTURAL PLATFORM FOR NEW UNIT PLACEMENT. TYPICAL OF RTU 4 AND 5.

OPEN TO COURTYARD BELOW

OPEN TO ABOVE

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

PRICING NOTE:
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REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

PRICING NOTE:
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REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

AHU-2
(EXIST)

RTU-6

AHU-3
(EXIST)

AHU-5
(EXIST)

CU-1

PROVIDE NEW ROOF CURB FOR NEW CONDENSING UNIT

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

UNIT BEING REPLACED SHALL BE PROVIDED WITH NEW ROOF CURB. COORDINATE WITH ROOFING CONTRACTOR ON INSTALLATION. RECONNECT/EXTEND ALL CONDENSATE LINES TO HVAC UNITS BEING REPLACED. RECONNECT TO EXISTING SUPPLY AND RETURN DUCTS.

RTU-2

RTU-3
(EXIST)

RTU-1

EF-A

PRICING NOTE:
EXISTING EXHAUST FAN TO BE REPLACED AND NEW ROOF CURB PROVIDED.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING FAN TO BE IN GOOD CONDITION.

UNIT BEING REPLACED SHALL BE PROVIDED WITH NEW ROOF CURB. COORDINATE WITH ROOFING CONTRACTOR ON INSTALLATION. RECONNECT/EXTEND ALL CONDENSATE LINES TO HVAC UNITS BEING REPLACED. NEW DOWNSTREAM DUCT TO BE PROVIDED.

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

PRICING NOTE:
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REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

KEF-1

DOAS-1

NEW ROOF CURB FOR DOAS TO BE INSTALLED

EXISTING EXHAUST FAN TO REMAIN

EF-2

DEF-1

EF-3

PRICING NOTE:
PRICING FOR PVC PIPING TO BE REPLACED FOR DWV COPPER TO BE ADDED. CONDENSATE TO BE ROUTED THROUGH ROOF, THROUGH PLENUM, AND TO NEAREST MOP SINK. ESTIMATE 75' OF PIPE.
REMOVE PRICING IF FIELD VERIFICATION SHOWS EXISTING UNIT CONDENSATE IS ROUTED THROUGH ROOF.

INSULATION MISSING FROM SECTION OF PIPE. PROVIDE NEW INSULATION AND ALUMINUM GUARD TO ENSURE ENTIRE SECTION OF OUTDOOR HYDRONIC PIPE IS WEATHER PROTECTED.

1 ROOF LEVEL - MECHANICAL PLAN
3/32" = 1'-0"

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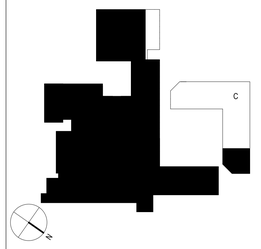
KEY PLAN



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FOR
DISD

Moody Nolan

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ROOF LEVEL - MECHANICAL PLAN

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PM: JOB NO. 22102.002
PROJECT MGR. C. BRANDON S. JARRETT
MECHANICAL C. RICCOTTI
PLUMBING R. COTTRELL
ELECTRICAL C.JAKULINSKI

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BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

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M203

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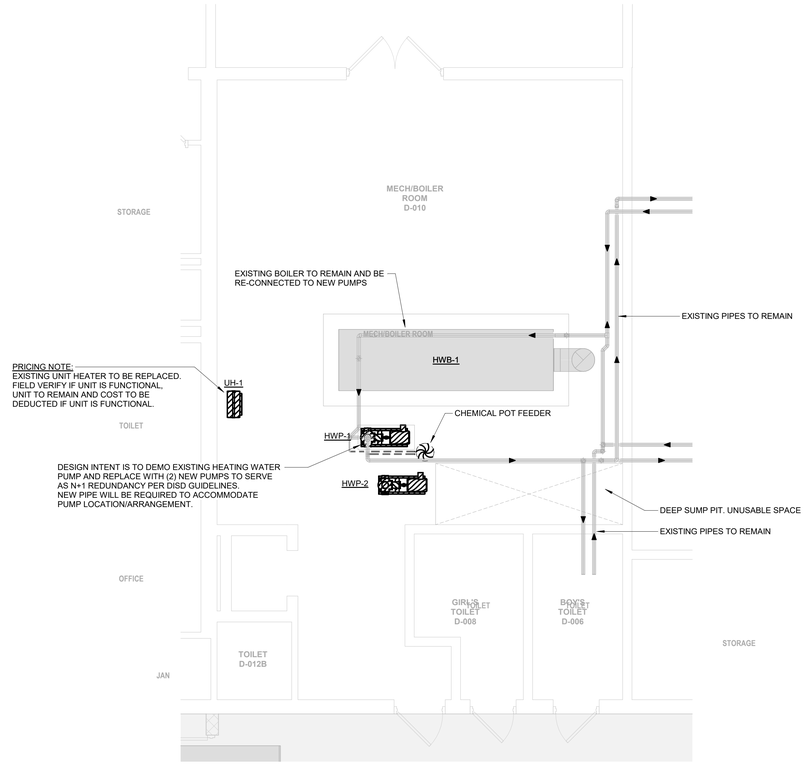
2 ENLARGED AREA C - MECHANICAL PLAN
1/8" = 1'-0"



1 ENLARGED MECH/BOILER ROOM D-010 - MECHANICAL PLAN
1/4" = 1'-0"

KEY PLAN

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PM: JOB NO.	22102.002
PROJ. MGR.	C. PIGOTT, B.JARRETT
MECHANICAL	C. PIGOTT
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAKULINSKI

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FOR
DISD

Moody Nolan

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MECHANICAL ENLARGED PLAN

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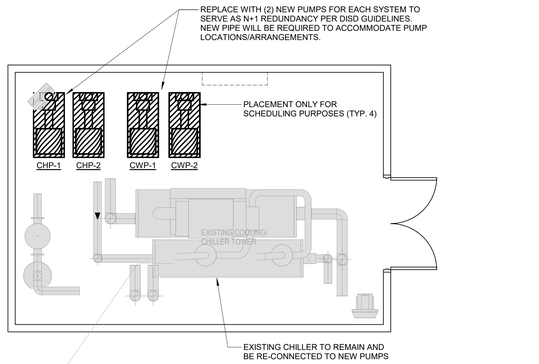
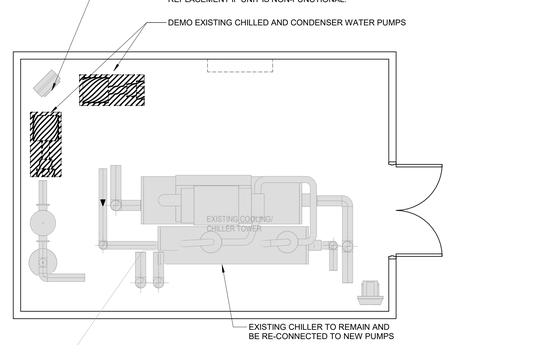


2 ENLARGED MECH YARD - MECHANICAL PLAN
1/4" = 1'-0"



1 ENLARGED MECH YARD - DEMOLITION MECHANICAL PLAN
1/4" = 1'-0"

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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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KEY PLAN

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DALLAS INDEPENDENT SCHOOL DISTRICT
BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL ENLARGED PLAN

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108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

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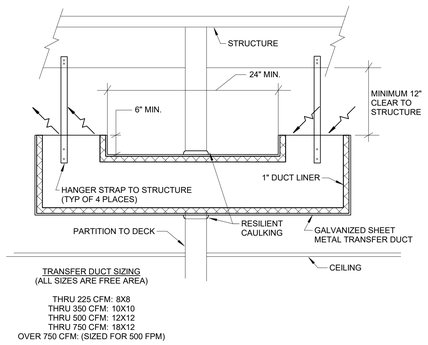
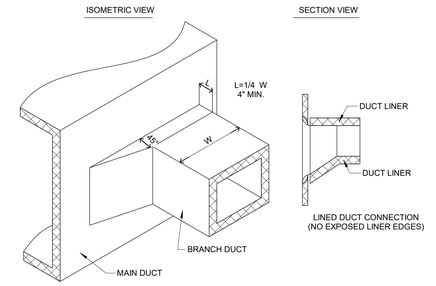
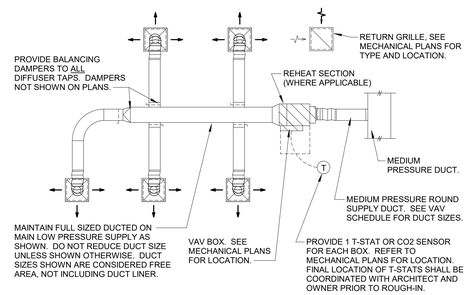


1 RETURN AIR TRANSFER BOOT U DETAIL
NOT TO SCALE

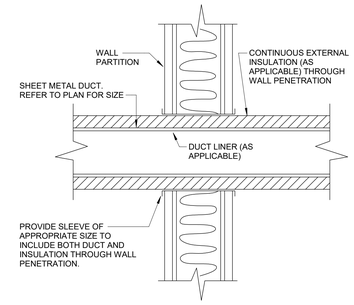


2 45 DEGREE BRANCH DUCT TAP
NOT TO SCALE



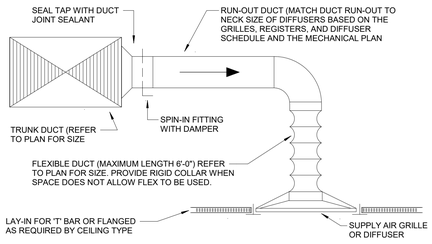
NOTE: THIS DETAIL DESCRIBES A TYPICAL VAV BOX, DUCT, AND DIFFUSER LAYOUT. IT DOES NOT COVER ALL SITUATIONS IN THIS DESIGN. REFER TO MECHANICAL PLANS AND OTHER SHEETS FOR MORE INFORMATION.

3 VAV BOX TYPICAL LAYOUT
NOT TO SCALE

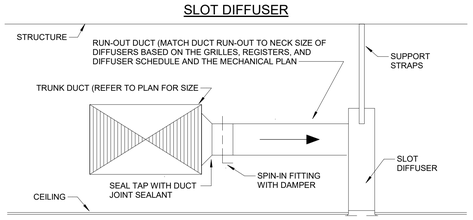


4 STANDARD DUCT WALL PENETRATION DETAIL
NOT TO SCALE

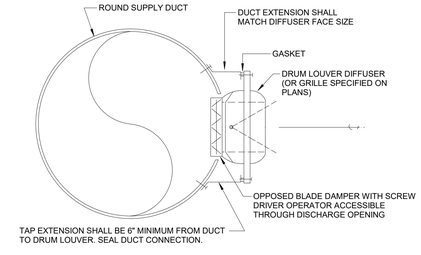
STANDARD DIFFUSER

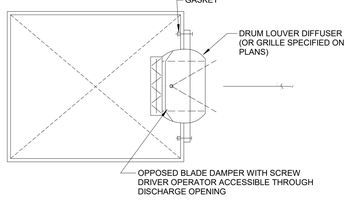


SLOT DIFFUSER

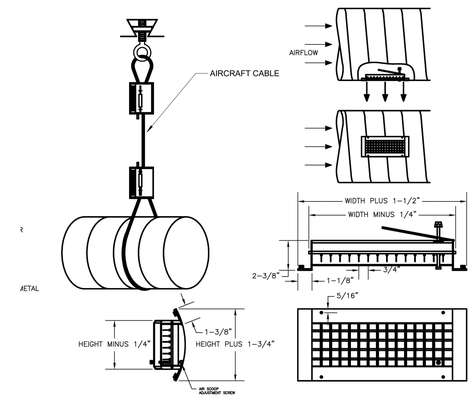


5 TYPICAL DIFFUSER CONNECTION DETAIL
NOT TO SCALE



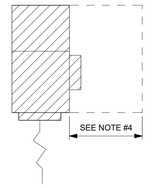


6 DUCT MOUNTED DRUM LOUVER DETAIL
NOT TO SCALE

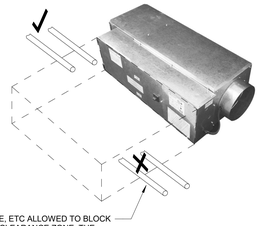


7 SPIRAL GRILLE DETAIL
NOT TO SCALE

VAV & VRH BOX CLEARANCES
TOP VIEW



VAV & VRH BOX CLEARANCES
ISOMETRIC VIEW



NO PIPING, CONDUIT, DUCT, STRUCTURE, ETC ALLOWED TO BLOCK THE CLEARANCE ZONE OR BELOW THE CLEARANCE ZONE. THE INTENT IS FOR MAINTENANCE ACCESS TO BE FREE AND CLEAR FROM BELOW. ANY CROSSING PIPE, CONDUIT, ETC SHALL BE ROUTED ABOVE THE BOX CLEARANCE ZONE, LIKE SHOWN IN THIS DIAGRAM.

NOTES:

1. PROVIDE 2X2 ACCESS PANELS FOR ALL VAV BOXES IN INACCESSIBLE LOCATIONS. ACCESS PANELS SHALL BE LOCATED UNDERNEATH THE CLEARANCE SPACE OF EACH BOX AND NOT DIRECTLY BELOW THE BOX. VERIFY EXACT LOCATION OF ACCESS PANEL WITH ARCHITECT.
2. THE DASHED AREAS REPRESENT A HORIZONTAL AND VERTICAL CLEARANCE FOR THE FULL DIMENSIONS OF THE UNIT. NO OBSTRUCTIONS CAN PASS THROUGH THE DASHED AREA. AREA SHALL REMAIN CLEAR FOR MAINTENANCE PURPOSES.
3. ANY UNIT MOUNTED DISCONNECTS MUST MEET THE CLEARANCES SHOWN IN NOTE #4.
4. NEC WORKING SPACE CLEARANCES MUST COMPLY WITH NEC TABLE 110.26(A)(1). SUMMARY OF THIS TABLE SHOWN BELOW.

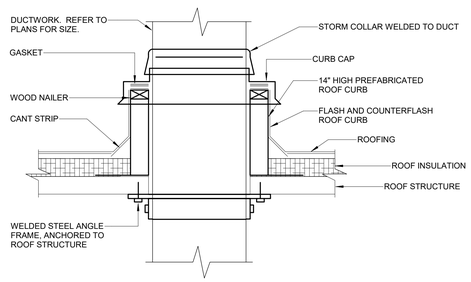
NOMINAL VOLTAGE	CONDITION 1	CONDITION 2	CONDITION 3
0-150V	3 FT	3 FT	3 FT
151-600V	3 FT	3 FT-6 IN	4 FT

CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATED MATERIALS.

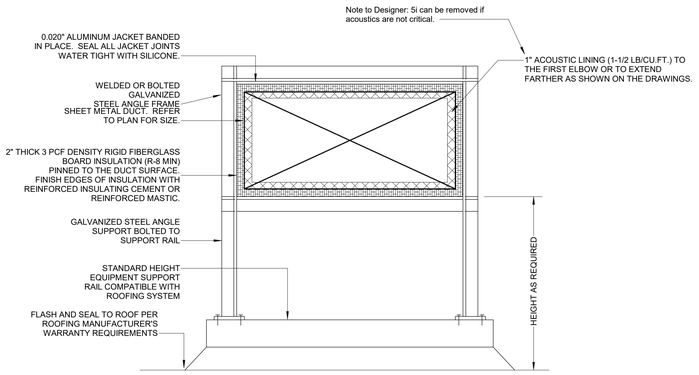
CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

8 VAV BOX REQUIRED NEC CLEARANCES
NOT TO SCALE



9 DUCT PENETRATION THROUGH ROOF
NOT TO SCALE



10 OUTDOOR DUCTWORK INSTALLATION
NOT TO SCALE

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL DETAILS

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PM# JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMUDIO/N.PARK

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED — PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

R22301.01

M501

100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/1/2025, 1:25:19 PM
FILE INFO: Autodesk Docs://R22301.01_DISD Harry Stone Montessori Academy Reno - R22301.01_DISD Harry Stone Montessori Acad Reno_MECH_R23.rvt

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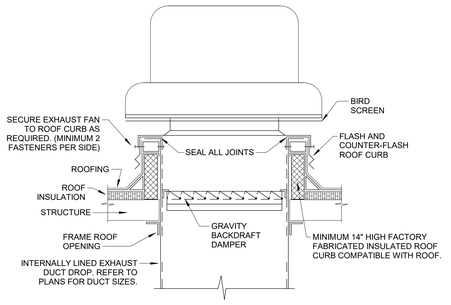
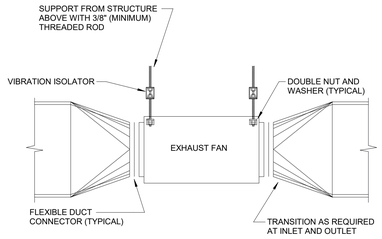
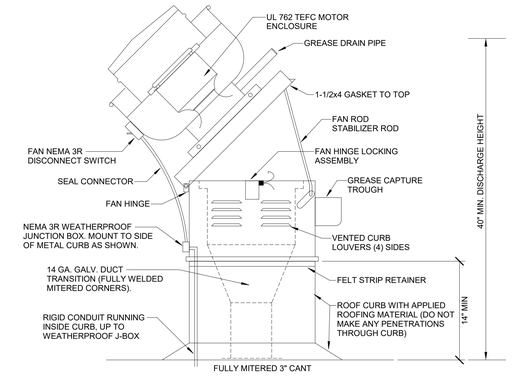


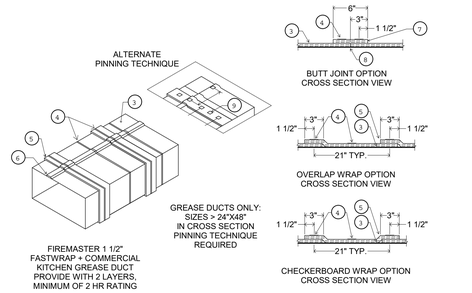
1 ROOF-MOUNTED DOWNBLAST GENERAL EXHAUST FAN DETAIL
NOT TO SCALE



2 INLINE GENERAL EXHAUST FAN DETAIL
NOT TO SCALE

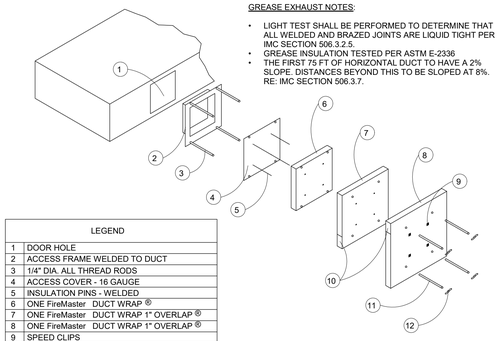


3 ROOF-MOUNTED GREASE EXHAUST FAN UL762 RATED
NOT TO SCALE



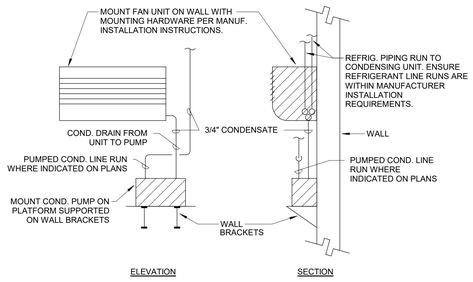
OMEGA POINT LABORATORIES DESIGN NO. GD 544 F	
1	ONE LAYER FIREMASTER FASTWRAP+, 1 1/2" THICK
2	STEEL BANDING 1/2" WIDE MIN.
3	3" MIN. LONGITUDINAL OVERLAP
4	3" MIN. PERIMETER OVERLAP
5	6" WIDE FIREMASTER FASTWRAP+ COLLAR
6	FIRMLY BUTTED JOINT
7	10 OR 12 GAGE STEEL INSULATION PIN WITH 1 1/2"X1 1/2" OR 1 1/2" DIA. GALVANIZED SPEED CLIPS (FOR ALTERNATE PINNING)

4 FIREMASTER GREASE DUCT WRAP DETAIL
NOT TO SCALE

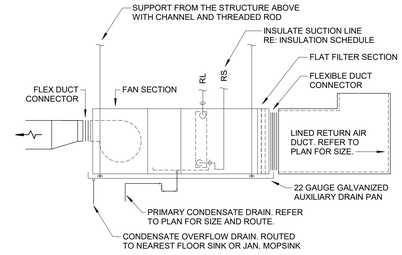


LEGEND	
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIA. ALL THREAD RODS
4	ACCESS COVER - 16 GAUGE
5	INSULATION PINS - WELDED
6	ONE FireMaster DUCT WRAP ®
7	ONE FireMaster DUCT WRAP 1" OVERLAP ®
8	ONE FireMaster DUCT WRAP 1" OVERLAP ®
9	SPEED CLIPS
10	ALUMINUM TAPE AT EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIA. WING NUTS

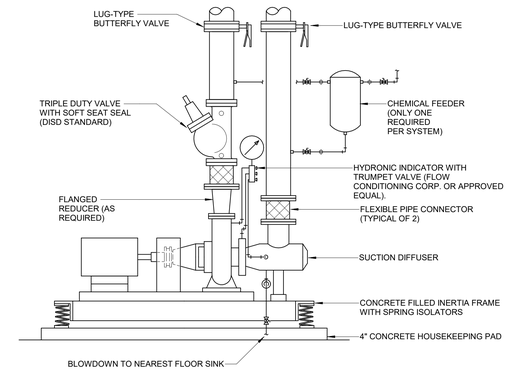
5 GREASE DUCT ACCESS DOOR DETAIL
NOT TO SCALE



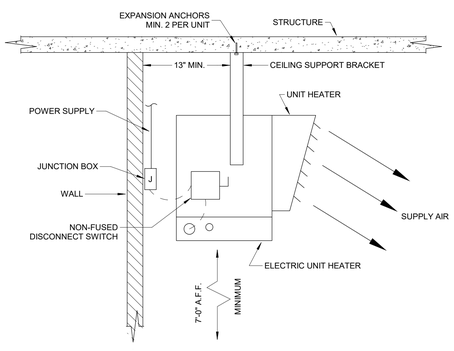
6 DUCTLESS DX MINI-SPLIT AC INSTALLATION DETAIL
NOT TO SCALE



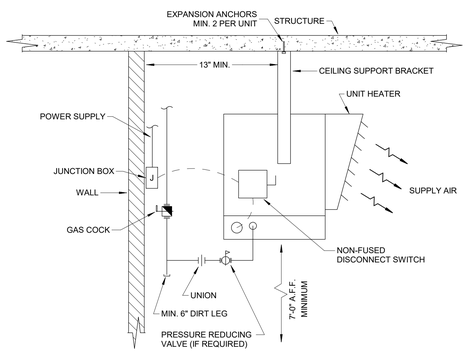
7 DUCTED DX SPLIT SYSTEM AC INSTALLATION DETAIL
NOT TO SCALE



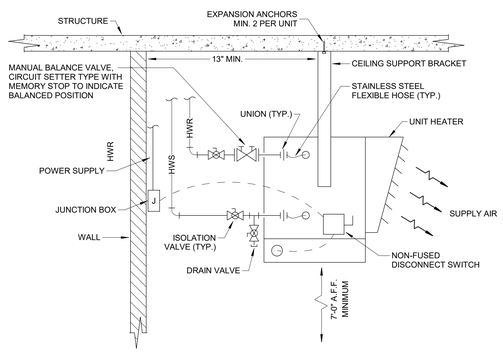
8 BASE MOUNTED PUMP DETAIL - WITH TRIPLE DUTY VALVE PER DISD TDG
NOT TO SCALE



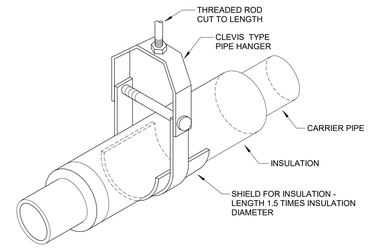
9 ELECTRIC UNIT HEATER MOUNTING DETAIL
NOT TO SCALE



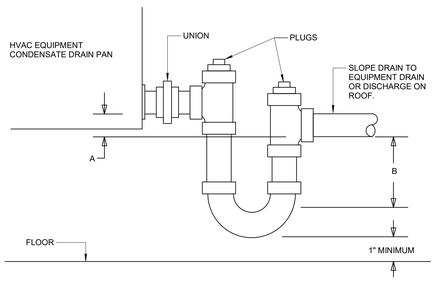
10 GAS FIRED UNIT HEATER MOUNTING DETAIL
NOT TO SCALE



11 HYDRONIC UNIT HEATER MOUNTING DETAIL
NOT TO SCALE



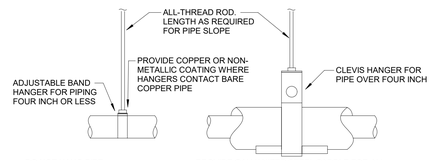
12 CLEVIS PIPE HANGER DETAIL
NOT TO SCALE



COIL CONFIGURATION	DIMENSION "A"	DIMENSION "B"
BLOW THROUGH COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THROUGH COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM "A" OR "B" DIMENSION SHALL NOT BE LESS THAN 1".

13 HVAC CONDENSATE TRAP DETAIL
NOT TO SCALE

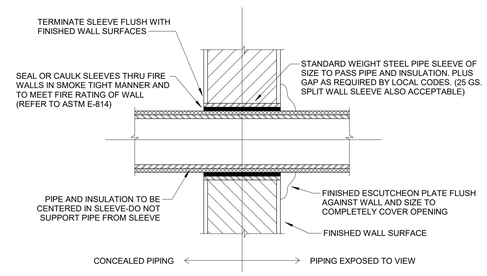


- PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE.
- DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
- DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.
- TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.
- HANGER SPACING FOR PIPE SIZE:

  COPPER: 4" = 12' 3" = 11' 2-1/2" = 10' 2" = 9' 1-1/2" = 7' 1" = 6' 3/4" = 6' 1/2" = 5'
  CAST IRON: 10' AND ONE NEAR ALL JOISTS.
  STEEL: 4" = 14' 3" = 12' 2-1/2" = 11' 2" = 10' 1-1/2" = 9' 1" = 7' 3/4" = 6' 1/2" = 5'

- LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
- PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
- LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS.
- ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.
- PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.
- CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE.
- REFER TO CODES FOR FURTHER INFORMATION.

14 PIPE INSULATION/HANGER DETAIL
NOT TO SCALE



NOTE: PROVIDE FOR ALL MASONRY WALLS AND FIRE RATED WALLS

15 PIPE SLEEVE - INTERIOR WALLS
NOT TO SCALE

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KEY PLAN

#	DATE	CHANGE DESCRIPTION

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL DETAILS

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway Suite 3000 Dallas, TX 75248-1147
Firm Registration # F-1511
Tel. 972/239-5357 Fax. 972/239-5231
www.purdy-mcguire.com
PM JOB NO. 22102.00
PROJECT MGR. B.JARRETT
MECHANICAL L. RICCOTTI
PLUMBING R. COTTRELL
ELECTRICAL C.JAKULINSKI
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STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025
R22301.01
M502
100% CD'S SUBMITTAL

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RTU GAS REHEAT SCHEDULE

Mark	SERVICE	NOMINAL TONS	MECHANICAL													ELECTRICAL				
			FAN SECTION				COOLING CAPACITY MBH @ 105 °F AMBIENT					GAS HEATING CAPACITY			BASIS OF DESIGN					
			DESIGN CFM	MIN OA CFM	ESP (in WG)	BHP	TOTAL MBH	SENSIBLE MBH	EAT DB	EAT WB	EER	INPUT MBH	OUTPUT MBH	EFF %	MANUFACTURER	MODEL	WEIGHT (LBS)	VOLT	PH	MCA	MOCP
DOAS-1	KITCHEN	12	3360	2500	1	1.35	137	118	90	70	10.8	300	243	81%	TRANE	ODAG	3140	460 V	3	28	35
RTU-1	ADMIN	7.5	3000	350	1	1.35	84	75	82	67	12.1	120	97	82%	TRANE	YHK090A4SAL	1094	460 V	3	22	25
RTU-2	COMPUTER LAB	7.5	3000	350	1	1.35	84	75	82	67	12.1	120	97	82%	TRANE	YHK090A4SAL	1094	460 V	3	22	25
RTU-4	LARGE GYM	15	5250	875	1	2.03	168	125	80	67	10.8	250	203	82%	TRANE	YSJ180A4SAL	2176	460 V	3	45	50
RTU-5	LARGE GYM	15	5250	875	1	2.03	168	125	80	67	10.8	250	203	82%	TRANE	YSJ180A4SAL	2176	460 V	3	45	50
RTU-6	SMALL GYM	15	4800	2260	1	1.3	166.5	135.5	83	67	12.3	250	203	82%	TRANE	YHK180A4SAL	2343	460 V	3	45	50

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2) PROVIDE ALL ROOFTOP UNITS WITH FACTORY MOUNTED DISCONNECT MATCHING THE AIC RATING OF THE UPSTREAM PANEL FEEDING THE UNIT AND SINGLE POINT POWER CONNECTION.
3) INSTALL UNITS LEVEL FOR PROPER CONDENSATE DRAINAGE, SHIM CURBS AS REQUIRED.
4) COORDINATE EXACT LOCATION OF UNIT WITH STRUCTURE.
5) PROVIDE RTU'S W/ VFD UNLESS SPECIFIED OTHERWISE (THIS SCHEDULE)
6) APPROVED MANUFACTURERS ARE: CARRIER & TRANE
7) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID
8) ECONOMIZERS OPERATING ON FACTORY CONTROLS MUST HAVE DIP SWITCH SETTING FIELD ADJUSTED TO 55°F DURING START UP.

Mechanical Equipment Extended Warranty Schedule - DISD Requirements

Spec Section	Product	Extended Warranty Description
Division 23 - HVAC		
230513	Variable frequency drives	30 months parts and labor for all compoments
236200	Condensing units	5 years parts and labor for all components.
237313	Modular indoor or outdoor air-handling units	5 years parts and labor for all components.
237413	Light commercial packaged DX rooftop units	10 years parts and labor for all components.
237414	Heavy commercial packaged DX rooftop units	10 years parts and labor for all components.
237433	Packaged outdoor make-up air units	10 years parts and labor for all components.
238126	Split systems	5 years parts and labor for all components.

Notes:

1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

SPLIT SYSTEM AC SCHEDULE

MARK	SERVES	CFM	COOLING						ELECTRICAL					BASIS OF DESIGN	
			TOTAL MBH	SENS MBH	EAT		LAT		EER	SEER	REFRIGERANT	FLA	MCA	MOCP	VOLT	PH	MANUFACTURER	MODEL
					DB	WB	DB	WB										
AC-1	MDF	1200	33200	22900	80 °F	67 °F	55 °F	53 °F	8.8	18.5	R410A	0.9	1	20	208 V	1	MITSUBISHI	NTYWST36C112AA

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2) PROVIDE SECONDARY DRAIN PAN FOR EACH AIR HANDLER WITH AUTO CUT-OFF.
3) ROUTE PRIMARY AND SECONDARY CONDENSATE PIPE, TYPE K COPPER, TO NEAREST HUB DRAIN OR MOP SINK (UNLESS SHOWN OTHERWISE ON PLANS) VIA APPROVED AIR GAP.
4) APPROVED MANUFACTURERS ARE: CARRIER, DAIKIN, DUNHAM-BUSH, LG, SAMSUNG, TRANE/MITSUBISHI, & YORK.
5) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.
6) PROVIDE ALL SPLIT SYSTEMS OVER 2,000 CFM WITH A DEDICATED SMOKE DETECTOR IN THE RETURN AIR PATH OF THAT SPECIFIC UNIT.
7) PROVIDE MANUFACTURER CONDENSATE PUMP ACCESSORY OPTION. OTHERWISE, PROVIDE CONDENSATE PUMP EQUAL TO SAUERMANN Si-30 IF GRAVITY DRAIN IS NOT FEASIBLE.

SPLIT SYSTEM CU SCHEDULE

DESIGNATION		MARK	ELECTRICAL				BASIS OF DESIGN	
TYPE	MARK		AMBIENT TEMP	MCA	MOCP	VOLT	PH	MANUFACTURER	MODEL
CU	CU-1	CU-1	-40 °F	22	25	208 V	1	MITSUBISHI	NTYSST36C112AA

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2) ALL EQUIPMENT EFFICIENCIES SHALL MEET THE REQUIREMENTS OF THE CITY APPROVED IECC VERSION
3) APPROVED MANUFACTURERS ARE: AAON, CARRIER, DAIKIN, DUNHAM-BUSH, LG, SAMSUNG, TRANE/MITSUBISHI, & YORK.
4) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.

PUMP SCHEDULE

MARK	TYPE	DUTY	GPM	HEAD (FT)	EFF (%)	MOTOR DATA			BASIS OF DESIGN			ELECTRICAL	
						HP	RPM	VFD	MANUFACTURER	MODEL	WEIGHT (LBS)	VOLT	PH
CHP-1	END SUCTION	CHILLER	600	88	78	20	1775	Yes	ARMSTRONG	Series 4030 - 5x4x11.5 - 4p - 20 hp		480	3
CHP-2	END SUCTION	CHILLER	600	88	78	20	1775	Yes	ARMSTRONG	Series 4030 - 5x4x11.5 - 4p - 20 hp		480	3
CWP-1	END SUCTION	CHILLER	600	88	78	20	1775	Yes	ARMSTRONG	Series 4030 - 5x4x11.5 - 4p - 20 hp		480	3
CWP-2	END SUCTION	CHILLER	600	88	78	20	1775	Yes	ARMSTRONG	Series 4030 - 5x4x11.5 - 4p - 20 hp		480	3
HWP-1	END SUCTION	BOILER	215	50	76	5	1750	Yes	ARMSTRONG	Series 4030 - 3x2.5x8 - 4p - 5 hp	245	480	3
HWP-2	END SUCTION	BOILER REDUNDANCY	215	50	76	5	1750	Yes	ARMSTRONG	Series 4030 - 3x2.5x8 - 4p - 5 hp	245	480	3

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2) APPROVED MANUFACTURERS ARE: PACO, B&G, ARMSTRONG. ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.
3) PROVIDE PUMP INLET ISOLATION VALVES.
4) PROVIDE DUPLEX CONTROL PANEL WITH MAGNETIC STARTERS, HOA SWITCH, RUN LIGHTS, DISCONNECT AND NEMA 1 ENCLOSURE.
5) THE PERFORMANCE AND CAPACITY LISTED ABOVE, INCLUDING EFFICIENCY, IS BASED ON AN OPTIMIZED IMPELLER TRIM. PUMP SUBMITTALS SHOULD INCLUDE SELECTION AND PUMP CURVES FOR OPTIMIZED IMPELLER TRIM, AS WELL AS PERFORMANCE WITH THE LARGEST IMPELLER TRIM AVAILABLE, THAT DOES NOT ALLOW AN OVERLOAD CONDITION. THIS APPLIES TO ALL PUMPS CONNECTED TO VFDS.
6) SEE PUMP DETAIL ON SHEET M5.XX FOR ADDITIONAL REQUREMENTS.

AHU SCHEDULE

MARK	SERVES	LOCATION	SUPPLY FAN			VENTILATION		COOLING COIL						PREHEAT COIL							PRE-FILTER		FINAL FILTER		BASIS OF DESIGN		ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	ELECTRICAL			
			CFM	ESP (IN W.G.)	DRIVE	OA CFM	MIN CFM	TOTAL MBH	SENSIBLE MBH	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	MAX AIR VELOCITY	AIR PD (IN W.G.)	GPM	EWT (°F)	LWT (°F)	TOTAL MBH	EAT °F DB	LAT °F DB	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	DEPTH	MERV	DEPTH	MERV	MANUF.	MODEL			VOLT	PH	TOTAL NUMBER	HP OF EACH
AHU-7	KINDERGARTEN	MECH ROOM	6000	1	VFD	1200	6000	240	169	80	67	54	53	500	0.6	40	42	54	200	45	74	10	180	140	1.1	2"	8	"4	13	TRANE	39LD	A,B,C,G,K	1280	480	3	1	7.5

ACCESSORIES:
(A) - FACTORY MOUNTED, NEMA VFD W/ DISCONNECT SWITCH
(B) - FACTORY MOUNTED RETURN AIR SMOKE DETECTOR
(C) - FACTORY MOUNTED SUPPLY AIR SMOKE DETECTOR
(D) - 14" HIGH, INSULATED ROOF CURB
(E) - THRU BASE ELECTRICAL CONNECTIONS
(F) - 7 DAY PROGRAMMABLE THERMOSTAT
(G) - SLOPED CONDENSATE DRAIN PAN WITH THRU BASE CONDENSATE DRAIN
(H) - LOW AMBIENT COOLING CAPABILITY DOWN TO 0 DEG. F
(J) - DRY BULB ECONOMIZER WITH 100% POWERED RELIEF FAN (.25" ESP FOR RELIEF FAN)
(K) - MOTORIZED OUTSIDE AIR DAMPER AND BAROMETRIC RELIEF

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2) PROVIDE ALL AIR HANDLING UNITS WITH FACTORY MOUNTED DISCONNECT AND SINGLE POINT POWER CONNECTION.
3) INSTALL UNITS LEVEL FOR PROPER CONDENSATE DRAINING.
4) COORDINATE EXACT LOCATION OF UNIT WITH STRUCTURE.
5) REFER TO DETAILS ON DRAWINGS FOR REQUIRED COMPONENTS AND MODULAR SECTIONS.
6) LEAVING AIR TEMP. DOWNSTREAM OF FAN SHALL BE 55 DEG. F. MAX.
7) APPROVED MANUFACTURERS ARE: CARRIER & TRANE
8) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.

GRILLES, REGISTERS, DIFFUSERS SCHEDULE - PRICE

IMAGE	DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	NECK SIZE	SLOT/FACE SIZE	BASIS OF DESIGN		REMARKS
												MANUF.	MODEL	
	A1	SUPPLY	PLAQUE	LAY-IN CEILING	STEEL	NO	WHITE	YES	T-BAR	NOTE 1	24X24	PRICE INDUSTRIES	SPD	SEE NOTES 1,2,5,6,7
	A5	SUPPLY	PLAQUE	LAY-IN CEILING	STEEL	NO	WHITE	YES	T-BAR	NOTE 1	12X12	PRICE INDUSTRIES	SPD	SEE NOTES 1,2,5,6,7
	B2	RETURN	PERFORATED	LAY-IN CEILING	STEEL	NO	WHITE	NO	T-BAR	--	24X24	PRICE INDUSTRIES	PDDR	SEE NOTES 1,2,5,6,7
	B2	RETURN	PERFORATED	LAY-IN CEILING	STEEL	NO	WHITE	NO	T-BAR	--	12X24	PRICE INDUSTRIES	PDDR	SEE NOTES 1,2,5,6,7
	C2	SUPPLY	MUD-IN SLOT	GYP BOARD CEILING	ALUMINUM	YES	WHITE	YES	SURFACE (TYPE 8)	NOTE 1	(3) 1.0"	PRICE INDUSTRIES	SDS100	SEE NOTE 1, 2, 3, 5
	E2	EXHAUST	PERFORATED	LAY-IN CEILING	STEEL	YES	WHITE	NO	T-BAR	NOTE 1	12X12	PRICE INDUSTRIES	PDR	SEE NOTE 1,2,5,6,7
	G3	SUPPLY	GRILLE	SIDEWALL	STEEL	YES	WHITE	NO	SURFACE	--	SEE PLANS	PRICE INDUSTRIES	520/L - DOUBLE DEFLECTION	SEE NOTES 2,3,5,6,7

NOTES:
1. NECK SIZES AS FOLLOWS:

DESIGNATION "A1 - A4"		DESIGNATION "A5 - A8"		DESIGNATION "B2 / E1"		DESIGNATION "B3 / E2"	
CFM RANGE	NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE	NECK SIZE
000 - 250	8"Ø	000 - 150	6"Ø	000 - 400	8"Ø	000 - 200	6"Ø
255 - 400	10"Ø	155 - 225	8"Ø	405 - 550	10"Ø	200 - 300	6"X6"
405 - 550	12"Ø			555 - 750	12"Ø		
555 - 700	14"Ø						

DESIGNATION "C1 / C3 / C5" (2 - 1.0" SLOT)			DESIGNATION "C2 / C4 / C6" (3 - 1.0" SLOT)			DESIGNATION "S1 / S3 / S5" (2.0" SLOT)			DESIGNATION "S2 / S4 / S6" (3.0" SLOT)		
CFM RANGE	NECK SIZE	LENGTH	CFM RANGE	NECK SIZE	LENGTH	CFM RANGE	NECK SIZE	LENGTH	CFM RANGE	NECK SIZE	LENGTH
000 - 200	8"Ø	4'0"	000 - 300	10"Ø	4'0"	000 - 200	8"Ø	4'0"	000 - 300	10"Ø	4'0"
--			--			205 - 250	10"Ø	4'0"	305 - 350	12"Ø	4'0"
--			--			255 - 300	12"Ø	4'0"	--		

2. NOTIFY ENGINEER OF ANY DISCREPENCIES BETWEEN NEW MODEL NUMBER AND EXISTING NUMBER PRIOR TO PURCHASE.
3. REFER TO MECHANICAL FLOOR PLANS FOR GRILLE FACE/NECK SIZES.
4. PROVIDE THE FOLLOWING ACCESSORIES FOR SLOT DIFFUSERS:
   A. ENGINEERED PLENUM BOX FOR SLOT DIFFUSERS UTILIZED FOR SUPPLY OR EXHAUST AIR.
   B. OPTIONAL MITERED CORNER MODULE FOR SLOT DIFFUSER APPLICATIONS WHERE DIFFUSERS MEET AT SQUARED CORNERS. REFER TO MECHANICAL PLANS FOR LOCATIONS.
   C. MITERED END CONDITIONS.
   D. INSULATED SHEET METAL LIGHTPROOF SIGHT BAFFLE EQUAL TO PRICE INDUSTRIES 'RBI' FOR RETURN AIR SLOT DIFFUSERS AND INACTIVE SECTIONS.
   E. FOR LINEAR SLOT DIFFUSERS UTILIZED AS RETURN - REMOVE PATTERN CONTROLLERS TO MAXIMIZE FREE AREA.
5. PROVIDE MANUAL BALANCING DAMPER FOR ALL SUPPLY AND DUCTED RETURN/EXHAUST GRILLES AND DIFFUSERS.
   A. FOR SUPPLY AND/OR EXHAUST GRILLES AND DRUM LOUVERS, PROVIDE OPTIONAL OPPOSED BLADE DAMPER ACCESSORY THAT CAN BE ADJUSTED AT GRILLE FACE.
   B. FOR ANY DIFFUSERS LOCATED IN GYP BOARD CEILINGS (OR INACESSIBLE CEILINGS), PROVIDE A CONCEALED DAMPER CONTROL CABLE SYSTEM EQUAL TO YOUNG REGULATOR BOWDEN CABLE CONTROLLER MODEL 270-275.
6. COORDINATE FINISH COLOR OF ALL DIFFUSERS/GRILLES WITH ARCHITECT PRIOR TO PURCHASE. PRIME AND PAINT AS REQUIRED.
7. APPROVED MANUFACTURERS ARE PRICE INDUSTRIES, TITUS, NAILOR, KRUEGER, AND METALAIRE. ANY SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

UNIT HEATER - ELECTRIC SCHEDULE

DESIGNATION		MECHANICAL					BASIS OF DESIGN		ACCESSORIES	ELECTRICAL		
TYPE	MARK	SERVICE	CFM	KW	BTUH	WEIGHT (LB/FT)	MANUFACTURER	MODEL		VOLT	PH	HZ
UH	UH-1	BOILER ROOM	910	15	51,182	55	QMARK	MUH158	A, D	208	3	60

ACCESSORIES:
(A) - FACTORY NON-FUSED DISCONNECT
(B) - FACTORY INTERNAL THERMOSTAT
(C) - TAMPERPROOF THERMOSTAT
(D) - REMOTE THERMOSTAT
(E) - PROVIDE UNIT SUB-BASE
(F) - WALL MOUNTING BRACKET
(G) - CEILING MOUNTING KIT
(H) - RECESS TRIM KIT
(I) - PROVIDE CUSTOM COLOR AS CHOSEN BY ARCHITECT
(J) - UNIT IS FOR SPRINKLER LINE FREEZE PROTECTION - INSTALL IN PLENUM AT SAME HEIGHT AS SPRINKLER LINES

NOTES:
1 REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2 APPROVED MANUFACTURERS ARE: CHROMALOX, INDEECO, REZNOR, Q-MARK
3 ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

EXHAUST FAN SCHEDULE

DESIG.	SERVICE	LOCATION	TYPE	CONTROL	CFM	ESP (IN W.G.)	DRIVE	ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	BASIS OF DESIGN		ELECTRICAL			
										MANUFACTURER	MODEL	HP	RPM	VOLT	PH
DEF-1	DISHWASHER	ROOF	UPBLAST	NONE	500	1	DIRECT	B, D, G	40	COOK	120R17D OR80	0.33	1725	120	1
EF-2	DRY STORAGE	ROOF	UPBLAST	NONE	300	0.5	DIRECT	B, D, G	25	COOK	90R15DH	0.13	1550	120	1
EF-3	JANITOR	ROOF	UPBLAST	NONE	150	1	DIRECT	B, D, G	40	COOK	120C17D OR61	0.33	1725	120	1
EF-A	RESTROOM	ROOF	UPBLAST	NONE	100	0.5	DIRECT	B, D, G	20	COOK	70R15DH	0.05	1550	120	1
KEF-1	KITCHEN	ROOF	UPBLAST	VFD	4200	2	DIRECT	B, D, J	175	COOK	CUE-200HP-A	5	1725	480	3

ACCESSORIES:
(A) BACKDRAFT DAMPER
(B) BIRDSCREEN
(C) PRE-WIRED NON-FUSED SERVICE DISCONNECT
(D) PRE-WIRED NON-FUSED SERVICE DISCONNECT (NEMA 3R)
(E) SPRING ISOLATION
(F) INTERLOCK W/AHU SUPPLY FAN
(G) INSULATED ROOF CURB 14" ABOVE FINISHED ROOF WITH HINGED COVER
(H) INSULATED AND VENTED ROOF CURB 14" ABOVE FINISHED ROOF W/HINGED COVER
(J) GREASE EXHAUST FAN SHALL BE UL-762 RATED FOR KITCHEN VENTILATION
(K) TEFC MOTOR ENCLOSURE FOR PROTECTION FROM GREASE-LADEN AIRTREAM
(L) GREASE CAPTURE TROUGH WITH REMOVABLE LID
(M) AMCA TYPE 'A' CONSTRUCTION FOR 'EXPLOSION PROOF' FANS

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2) CONTROL DESCRIPTION (WHERE PROVIDED, REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION)
   - BMS - BUILDING AUTOMATION SYSTEM
   - T-STAT - LINE VOLTAGE THERMOSTAT PROVIDED BY DIV 23.
   - H-STAT - HUMIDISTAT CONTROL
   - TCLOCK - TIMECLOCK FOR OPERATION (PROVIDED BY DIV. 23 AND INSTALLED BY DIV. 26)
   - SWITCH- MOTOR RATED SWITCH BY DIV. 26
   - CONT. - CONTINUOUS OPERATION
   - HOA - COMBINATION STARTER WITH HOA AND PILOT LIGHT IN COVER FURNISHED BY MANUFACTURER
   - BMS/DVS - BUILDING AUTOMATION SYSTEM / EXHAUST HOOD DEMAND CONTROL VENTILATION SYSTEM
3) ALL ROOF CURBS ARE STANDARD INSULATED TC-2 CURBS WITH GASKET, UNLESS OTHERWISE NOTED.
4) PROVIDE VFD RATED MOTOR WHEN FAN IS EQUIPPED WITH VFD. PROVIDE STARTER WHEN VFD IS NOT REQUIRED.
5) PROVIDE FANS WITH OSHA RATED GUARDS.
6) APPROVED MANUFACTURERS - COOK, GREENHECK, TWIN CITIES.
7) ALL SUBSTITUTIONS SHALL BE PRE-APPROVED, IN WRITING, PRIOR TO BID.
8) PROVIDE GREASE GUARD G2 XD CONTAINMENT PAD AND DRIP GUARD (OR EQUAL) FOR ALL KITCHEN EXHAUST FANS.

BASEBOARD HEATER SCHEDULE

TYPE	MARK	SERVICE	LENGTH	WATT OUTPUT	BASIS OF DESIGN		ELECTRICAL	
					WEIGHT (LBS.)	MANUFACTURER	MODEL	VOLT	PH
BH	BH-1	VESTIBULE	5' - 0"	733	50	RUNTAL	EB3-208D	208	1
BH	BH-2	VESTIBULE	5' - 0"	733	50	RUNTAL	EB3-208D	208	1

NOTES:
1 FINISH COLOR TO BE SPECIFIED BY ARCHITEST
2 APPROVED MANUFACTURERS ARE: Q-MARK/MARLEY, RUNTAL
3 ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
MECHANICAL SCHEDULES

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Mechanical - Electrical Engineers
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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01

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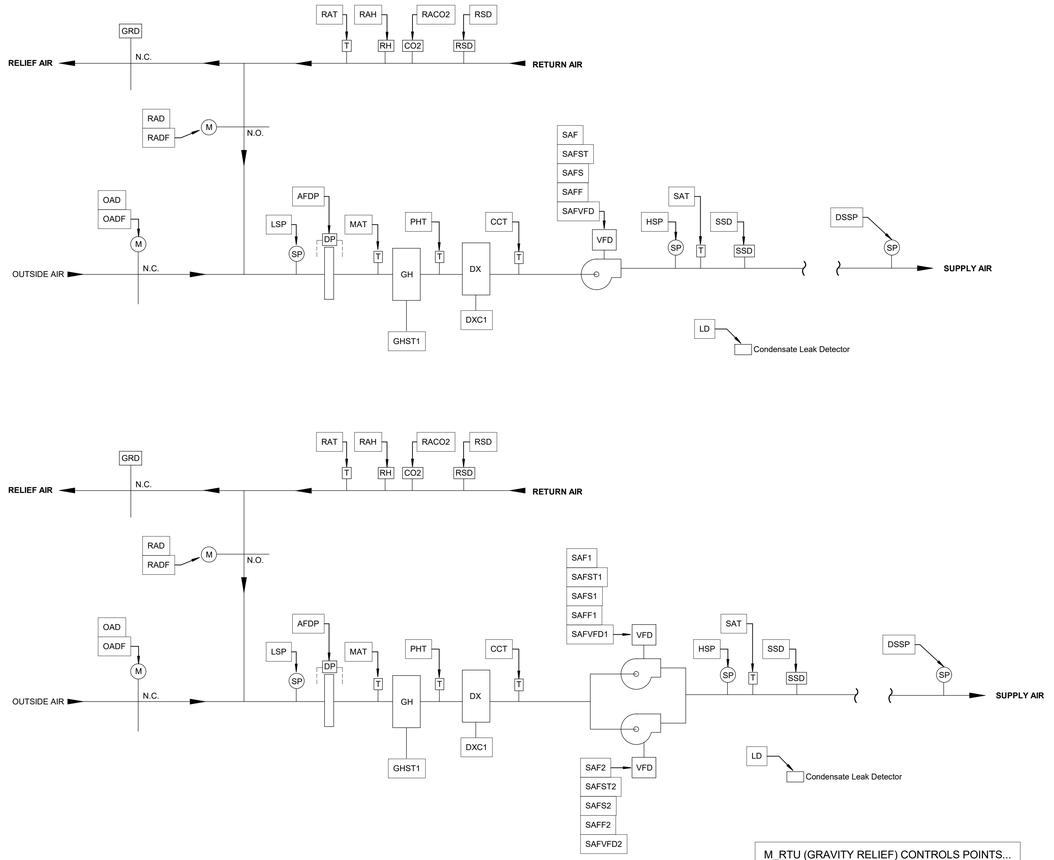


1 VAV DX RTU WITH ELECTRIC PRE-HEAT CONTROLS (TYPICAL OF EACH)
NOT TO SCALE

VAV DX RTU BACNET COMMUNICATION Sequence of Operation (Typical of Each)

General Conditions
Each VAV RTU shall utilize factory packaged controls dedicated only for control of its respective unit. The roof top unit shall operate on its internal controls along with the BAS and shall be tied in to the BAS via BACnet protocol. Integrate via BACnet to each RTU for monitoring, trending, controlling, commanding, reading, writing, and set up alarm all points as directed in this sequence of operations. Map every integrated point available from integrated equipment to the BAS, selective point mapping practices from a BAS contractor will not be acceptable. All setpoint/command control points shall have read/write priorities for analog and binary values. All multi-state integrated points shall have descriptive identifiers for each state, and shall be displayed on the graphics for all values. The use of numerical states and legends to identify the state of multi-state points on the BAS graphics will not be acceptable. Graphics shall include ALL mapped points including setpoint and alarm data for the RTU and be represented by animated graphics, that closely resembles the integrated RTU. Multiple graphics pages may be needed to provide access graphically to all the integrated points.
All safety devices are to be hardwired to shut down the RTU and there shall be a status point of each safety on the facilities BAS provided by the BAS contractor. The RTU manufacturer factory
representative shall start up and commission the RTU and assist the BAS contractor in the BACnet integration ensuring all data is mapped properly and the following sequences of operations are collaboratively accomplished. The BAS shall correctly size the installed software, controllers, devices, ect. to ensure and accommodate for all integrated points can be mapped, trended, commanded, alarmed, and displayed graphically.

Safety Modes and General Alarms

Low Static Shutdown
The RTU shall shut down and the BAS generate an alarm on the BAS upon receiving a low static shutdown signal. Low static safety switches shall be initially set at 2.5"w.c (adj.) and verified by the TAB contractor to ensure safety of the RTU per actual static ratings.

Return Air Smoke Detection
The RTU shall shut down and the BAS generate an alarm on the BAS upon receiving a return air smoke detector status.

Supply Air Smoke Detection
The RTU shall shut down and the BAS generate an alarm on the BAS upon receiving a supply air smoke detector status.

Preilter Differential Pressure Monitor
The controller shall monitor the differential pressure across the air filter.
Alarms shall be provided as follows:
Filter Change Required - Filter differential pressure exceeds a user definable limit (adj.) as per the filter manufacturer recommendations.

Final Filter Differential Pressure Monitor
The controller shall monitor the differential pressure across the final filter.
Alarms shall be provided as follows:
• Final Filter Change Required: Final filter differential pressure exceeds a user definable limit (adj.) as per the filter manufacturer recommendations.

Return Air Carbon Dioxide (CO2) Concentration Monitoring
The controller shall measure the all associated space and return air CO2 levels. The controller shall monitor the return air CO2 and alarm only when the supply fan is proven on. The space CO2 sensors shall alarm at all times occupied or unoccupied.
Alarms shall be provided as follows:
High Space or Return Air Carbon Dioxide Concentration - If the space
or return air CO2 concentration is greater than 800ppm (adj.).

Return Air Humidity
The controller shall monitor the return air humidity and use as required for economizer control. The controller shall monitor the return air humidity and alarm when the supply fan is proven on.
Alarms shall be provided as follows:
High Return Air Humidity - If the return air humidity is greater than 70% (adj.).
Low Return Air Humidity - If the return air humidity is less than 35% (adj.).

Return Air Temperature
The controller shall monitor the return air temperature and use as required for setpoint control or economizer control.
Alarms shall be provided as follows:
High Return Air Temp - If the return air temperature is greater than 85°F (adj.).
Low Return Air Temp - If the return air temperature is less than 50°F (adj.).

Supply Air Temperature
The controller shall monitor the supply air temperature.
Alarms shall be provided as follows:
High Supply Air Temp - If the supply air temperature is greater than 65°F (adj.).
Low Supply Air Temp - If the supply air temperature is less than 42°F (adj.)

Run Conditions – Scheduled/Optimized Modes
The rooftop unit shall be started by an optimum start schedule located in the BAS controller. The optimum start schedule should include, but not be limited to, a Morning Warm–Up Mode, Morning Cool–Down Mode, Night Heating Mode, Night Cooling Mode, Occupied Mode, Space Sensor Occupancy Button Override Mode, Day Unoccupied Mode, and Unoccupied Mode. The BAS shall provide optimum start times by adjustable setpoint's and time based schedules provided by the owner and/or via operator command. The optimized start time shall automatically adjust based on changes in outside air temperature and zone temperatures per the BAS start optimization algorithms in accordance with the following sequences of operations.

The rooftop unit shall run whenever:
• RTU is scheduled to run and no RTU safeties are active. The RTU shall run in Occupied Mode.
• OR Space Sensor Occupancy Button Override Mode, Morning Warm-
Up/Cool-Down, and Night Cooling/Heating Modes are active.

Unoccupied Mode
The RTU is scheduled off based on a user definable occupancy schedule via the BAS software. The outside air dampers shall close, RTU shall be disabled, the return air damper shall open, and the supply and relief fan shall be off when the unit is in the Unoccupied Mode. The BAS contractor shall place the RTU in this mode via the RTU's Unoccupied Mode. The BAS shall place the associated VAV boxes in the Unoccupied Mode.

Night Heating Mode
The BAS shall monitor each associated RTU associated space sensors. If the space sensor, while the space is Unoccupied Mode, is reading temperatures below 55°F (adj.), there shall be a flag alarm initiated on the BAS which shall initiate the associated RTU to be enabled to accommodate proper load.
The outside air damper shall remain closed and the return air damper shall open 100% in the Night Heating Mode. The RTU supply fan shall control as mentioned in the Occupied Mode.
The associated VAV boxes shall be controlled as mentioned in the Occupied Heating Mode. Once the space sensors initiating the Night Heating Mode are at or above 65°F (adj.), the Night Heating Mode shall be disabled and the associated RTU shall go into Unoccupied Mode along with associated VAV boxes. If the Night Heating Mode extends into a Occupied Mode period, the Night Heating Mode shall be discontinued and the RTU shall operate as normal in there Occupied Mode of operation.

Morning Warm-Up Mode
RTU Morning Warm-Up Mode – One hour (adjustable/optimized) prior to building occupancy or Occupied Mode initiation. If the outside air temperature is less than or equal to 52°F (adj.) and any associated space temperature is less than or equal to 67°F (adj.), the RTU shall enter the Morning Warm-Up Mode to raise the associated temperature of the space served. During Morning Warm-Up Mode, the outside damper shall remain closed and the return air damper shall open 100%. The RTU supply fan shall control as mentioned in the Occupied Mode. The associated VAV boxes shall be controlled as mentioned in there Occupied Heating Mode. When the associated space temperature is equal to 70°F (adj.), the Morning Warm-Up Mode shall end and the RTU shall continue to run and enter the Occupied Mode. There shall be a flag alarm initiated on the BAS that shall indicate to the operator whenever Morning Warm-Up Mode is actively running.

Night Cooling Mode
The BAS shall monitor the associated RTU associated space sensor. If the space sensors, while the space is in Unoccupied Mode, is reading temperatures above 85°F (adj.), there shall be a flag alarm initiated on the BAS which shall initiate the associated RTU to be enabled to accommodate proper load. If economizer is not favorable, the outside air damper shall remain closed and the return air damper shall open 100% in the Night Cooling Mode. The RTU supply fan and the DX cooling coil or Economizer shall control as mentioned in the Occupied Mode. The associated VAV boxes shall be controlled as mentioned in there Occupied Cooling Mode.
Once the space sensor initiating the Night Cooling Mode is at or below 78°F (adj.), the Night Cooling Mode shall be disabled and the associated RTU and VAV boxes shall go into Unoccupied Mode. If the Night Cooling Mode extends into a Occupied Mode period, the Night Cooling Mode shall be discontinued and the RTU shall operate as normal in the Occupied Mode of operation.

Morning Cool-Down Mode
RTU Morning Cool-Down Mode – One hour (adjustable/optimized) prior to building occupancy or Occupied Mode initiation. If the outside air
temperature is greater than or equal to 70°F (adj.), and any associated space temperature is greater than or equal to 77°F (adj.) - the RTU shall
enter the Morning Cool-Down Mode to lower the associated temperature of the space served. If economizer is not favorable during Morning Cool-Down Mode, the outside air damper shall remain closed and the return air damper shall open 100%. The RTU supply fan and the DX cooling coil or Economizer shall control as mentioned in the Occupied Mode. The associated VAV boxes shall be controlled as mentioned in there Occupied Cooling Mode. When the associated space temperature is equal to 75°F (adj.), the Morning Cool-Down Mode shall end and the RTU shall continue to run and enter the Occupied Mode. There shall be a flag alarm initiated on the BAS that shall indicate to the operator whenever Morning Cool-Down Mode is actively running.

Space Sensor Occupancy Button Override Mode:
A timed local override button control shall allow an occupant to override the schedule and place the associated RTU and associated VAV boxes into a Occupied Mode for an adjustable period of time initially set at 2hrs (adj.) when the associated RTU and VAV box system is off via a Unoccupied Mode. The max limit for override mode is two hours. At the expiration of this time, control of the RTU shall automatically return to the current RTU scheduled mode as needed. There shall be an override toggle on the BAS for the owner to enable/disable this space sensor occupancy button override mode feature on the BAS graphics.

Occupied Mode (determined by associated RTU BAS schedule):
The RTU shall control per the packaged roof top units controls to maintain supply air temperature setpoint's, supply fan speed, outside air CFM
setpoint's algorithms, comparative enthalpy economizer modes, safety functions, ect…

Dx Cooling – Compressor Control
The RTU packaged controls shall maintain cooling space temperature setpoint's via supply air temperature reset algorithms whenever economizer is not available. The TAB, Mechanical, and BAS contractor shall work together in tuning and testing to ensure proper control in all applicable modes and setpoint's provided from testing.

Gas Heating – Control
The RTU packaged controls shall maintain heating space temperature setpoint's via supply air temperature reset algorithms whenever economizer is not available. The TAB, Mechanical, and BAS contractor shall work together in tuning and testing to ensure proper control in all applicable modes and setpoint's provided from testing.

RTU Supply Fan – Speed Control Optimized
The RTU packaged controls algorithms shall modulate the supply fan to maintain the static setpoints and the BAS contrator shall assist in reset strategies accordingly. Every major branch of the supply ductwork off the RTU shall have a downstream static sensor located in the duct work where the static setpoint shall be no greater than 1.2" w.c.The BAS shall measure minimum of all duct static pressure sensors and modulate the supply fan VFD speed to maintain a duct static pressure setpoint. The static pressure setpoint shall be reset based on zone airflow cooling requirements determined by scanning all the associated VAV terminal units' airflow demand percentage. As cooling demand decreases to terminal air boxes determined by the terminal air box damper positions, the setpoint shall incrementally reset down to a minimum of .4 in H2O (adj.) until one of the associated terminal air box damper is greater than 95% (adj.). The setpoint shall incrementally reset up reset upwards to a maximum of 1.2in H2O (adj.). The initial duct static pressure setpoint shall be .75in H2O (adj.). The TAB, Mechanical, and BAS contractor shall work together in tuning and testing to ensure proper control in all applicable modes and setpoint's provided from testing. The TAB and Mechanical contractor shall set the minimum fan speed accordingly to accommodate the minimum outside air and the manufacturers minimum airflow for Dx cooling to prevent freeze up.

Supply Air Temperature Setpoint – Optimized
The BAS shall monitor the supply air temperature and shall maintain a supply air temperature setpoint reset based on space cooling and heating load requirements. The reset function shall be disabled if any space or return air humidity is over 60% (adj.). The supply air temperature setpoint shall be reset for cooling based on space cooling load requirements determined by scanning all the associated space temperatures. The space temperatures shall be measured against the design space conditions for the facility. The supply air temperature shall be reset up and down incrementally to ensure design space conditions are still being maintained. RTU design cooling supply temperature is 52°F (adj.). The initial cooling supply air temperature setpoint shall be 52°F (adj.). As space cooling demand increases, the setpoint shall incrementally reset down to a minimum in a time interval reset. The opposite action shall happen if the space cooling demand decreases until the supply air setpoint is at 65°F (adj.). If max supply air setpoint is adjusted, the max supply air setpoint shall not be allowed to be set below 58°F. The TAB Contractor shall confirm performance of the RTU and validate proper control with all determined setpoint's and demand inputs. The BAS contractor shall set the low and high setpoint limits accordingly.

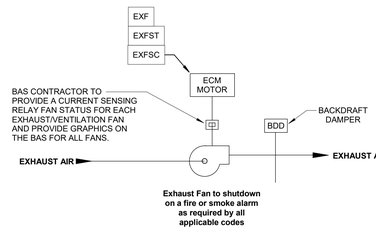
Economizer Mode Diagnostics
The following diagnostics shall be provided on the BAS graphics for the associated RTU and alarm and report accordingly. The system shall be programmed for the commissioning agent to be able to test each condition and manually place each mode in operation for testing.
1. Free Cooling Mode Available – When all conditions for economizer are favorable and the unit is in economizer mode or not.
2. Economizer Enabled – When all conditions for economizer are favorable and the BAS has enabled the economizer.
3. Compressors Enabled – When all conditions for economizer are favorable and the BAS/packaged controller has enabled the economizer control and is permitting use of compressors.
4. Heating Enabled – When all conditions for economizer are favorable and the BAS/packaged controller has enabled the economizer control and is permitting use of heating.
5. Mixed Air Low Limit Cycle Active – When all conditions for economizer are favorable and the BAS/packaged controller has enabled the economizer control and temporary stoppage of economizer mode due to the mixed air temperature low limit being active. See economizer sequence for Mixed Air Low Limit Cycle Criteria.
6. BAS Graphics Economizer Sensor Requirements - Outside air temperature, outside air enthalpy, return air temperature, return air enthalpy, mixed air temperature, supply air temperature, supply fan status is on, relief/return fan status is on, each compressor status,heating system and valve command and positions, and outside/return air dampers command and positions shall be represented on the BAS graphics.

Economizer Fault Detection and Diagnostics
The following fault detection diagnostics shall be provided on the BAS graphics for the associated RTU and alarm and report accordingly. The
system shall be programmed for the commission agent to be able to test each condition and simulate each fault for functional performance
testing. The owner/operator shall be alarmed locally on the BAS and via email notification if any of the following fault conditions are active.
1. Air Temperature Sensor Failure/Fault (Humidity Sensors Included) - outside air temperature, outside air enthalpy, return air temperature,return air enthalpy, mixed air temperature, supply air temperature, ect. A fault alarm shall be generated when any sensor is failed or unreliable. The fault shall remain active until the BAS operators acknowledge the fault.
2. Not Economizing when Conditions are Favorable – When all conditions for economizer are favorable and the unit is not in economizer mode. A fault alarm shall be generated when this fault is active which cause operators acknowledgement. The fault shall remain active until the BAS operators acknowledge the fault.
3. Economizing when Conditions are Not Favorable – When all conditions for economizer are not favorable and the unit is in economizer mode. A fault alarm shall be generated when this fault is active which cause operators acknowledgement. The fault shall remain active until the BAS operators acknowledge the fault.
4. Dampers Not Modulating – When either the outside air damper, relief damper, or return damper is in greater than 5% error reported on the BAS between the damper command and the damper position feedback. The fault alarm shall include the normal stroke time of the damper actuator motor before allowing the fault to be generated. A fault alarm shall be generated when this fault is active which cause operators acknowledgement. The fault shall remain active until the BAS operators acknowledge the fault.
5. Excessive Outside Air – When the mixed/supply air temp is less than setpoint by 3°F when the outside air temperature is the same or less than the actual mixed/supply air setpoint. When the mixed/supply air temp is greater than setpoint by 3°F when the outside air temperature is the same or greater than the actual mixed/supply air setpoint. When the outside air damper is greater than 5% error reported on the BAS between the return damper position feedback and the outside air damper position feedback.

Minimum Outside Air CFM Control
When in the Occupied mode, the RTU/BAS controller shall measure the outside airflow via as air flowstation(s). The outside air damper shall
modulate to maintain the proper design minimum outside air ventilation CFM. The outside air dampers shall close when the unit is off or not in
occupied mode unless economizer is favorable in a optimum start, morning cool-down, or night cooling mode. The RTU shall control to CO2 demand ventilation space air setpoints by the RTU's packaged controller internal algorithms if any associated CO2 sensor is less than 900 PPM (adj.). If greater than 900 PPM (adj.) is sensed, then the outside air cfm setpoint shall reset up until it is at the design minimum ASHRAE 62.1 CFM setpoint. The BAS shall indicate on the BAS graphics anytime the RTU is in the CO2 demand ventilation mode of operation along with the outside air cfm and current outside air setpoint. The BAS contractor shall scan and provide all information from associated CO2 sensors to the RTU packaged controls to complete the proper control of the CO2 demand ventilation mode of operation as necessary.
High Outside Air CFM - If the OA CFM is greater than 10% (adj.) above the current setpoint for 1 minute (adj.).
Low Outside Air CFM - If the OA CFM is less than 10% (adj.) below the current setpoint for 1 minute (adj.).

ELECTRICAL CONTRACTOR IS TO PROVIDE A 120 V WALL SWITCH AT EACH HOOD. FOOD SERVICE IS TO PROVIDE A TEMPERATURE SENSOR FOR EACH HOOD. FOR EACH HOOD, ELECTRICAL CONTRACTOR IS TO PROVIDE WIRING FROM WALL SWITCH AND HOOD TEMPERATURE SENSOR TO ASSOCIATED KEF FAN, SO THAT IF EITHER THE WALL SWITCH IS TURNED ON OR HOOD TEMPERATURE SENSOR ACTIVATES THE ASSOCIATED KEF FAN IS STARTED. FOR EACH HOOD, THE HOOD'S WALL SWITCH AND HEAT SENSOR WOULD BE WIRED IN PARALLEL SO THAT IF THE WALL SWITCH OR HEAT SENSOR IS ENGAGED THE ASSOCIATED KEF FAN WOULD COME ON.
ALSO PER DISD TDG, ELECTRICAL CONTRACTOR IS TO PROVIDE 120 V WIRING TO CONTINUE FROM DOAS-1 TO KEF-1 SO THAT DOAS-1 STARTS IF KEF-1 IS RUNNING.

M_RTU (GRAVITY RELIEF) CONTROLS POINTS...	
Reference	Point Name
AFDP	Air Filter Differential Pressure
AFDP	Air Filter Differential Pressure
CCT	Cooling Coil Air Temp
CCT	Cooling Coil Air Temp
DSSP	Downstream Static Pressure
DSSP	Downstream Static Pressure
DXC1	Dx Compressor Command
DXC1	Dx Compressor Command
GHST1	Gas Heat Stage 1
GHST1	Gas Heat Stage 1
HSP	High Static Safety
HSP	High Static Safety
LSP	Low Static Saftey
LSP	Low Static Saftey
MAT	Mixed Air Temp
MAT	Mixed Air Temp
OAD	Outside Air Damper
OAD	Outside Air Damper
OADF	Outside Air Damper Feedback
OADF	Outside Air Damper Feedback
PHT	Preheat Temp
PHT	Preheat Temp
RACO2	Return Air CO2
RACO2	Return Air CO2
RAD	Return Air Damper
RAD	Return Air Damper
RADF	Return Air Damper Feedback
RADF	Return Air Damper Feedback
RAH	Reurn Air Humidity
RAH	Reurn Air Humidity
RAT	Return Air Temp
RAT	Return Air Temp
RSD	Return Air Smoke Detector
RSD	Return Air Smoke Detector
SAF	Suply Air Fan Start/Stop
SAF1	Suply Air Fan Start/Stop
SAF2	Suply Air Fan Start/Stop
SAFF	Suply Air Fan VFD Fault
SAFF1	Suply Air Fan VFD Fault
SAFF2	Suply Air Fan VFD Fault
SAFS	Suply Air Fan VFD Speed Command
SAFS1	Suply Air Fan VFD Speed Command
SAFS2	Suply Air Fan VFD Speed Command
SAFST	Suply Air Fan Status
SAFST1	Suply Air Fan Status
SAFST2	Suply Air Fan Status
SAFVFD	Variable Frequency Drive Control Integration
SAFVFD1	Variable Frequency Drive Control Integration
SAFVFD2	Variable Frequency Drive Control Integration
SAT	Supply Air Temp
SAT	Supply Air Temp
SSD	Supply Air Smoke Detector
SSD	Supply Air Smoke Detector
LD	Leak Detector
LD	Leak Detector



EXHAUST FAN CONTROL POINTS	
Reference	Point Name
EXF	Exhaust Fan Start/Stop
EXFSC	Exhaust Fan Speed Control
EXFST	Exhaust Fan Status

Dishroom Exhaust Fan Sequence:
The exhaust fan shall be started and stopped at the BAS via a building occupancy schedule.
The BMS calls for the building to be occupied.
The fan shall shut down on a fire or smoke alarm event as determined by all applicable codes.
Alarms shall be provided as follows:
Fan Failure: Commanded on, but the status is off.
Fan in Hand: Commanded off, but the status is on.

2 EXHAUST FAN WITH BACKDRAFT DAMPER CONTROLS (TYPICAL OF EACH)
NOT TO SCALE

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

MECHANICAL CONTROLS

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel 972/239-5357
Fax 972/239-5231
www.purdy-mcguire.com

PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PEGOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX.

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
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100% CD'S SUBMITTAL

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ELECTRICAL SYMBOLS LEGEND

RECEPTACLES:

	SPECIAL RECEPTACLE AS NOTED
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	DUPLEX RECEPTACLE ABOVE COUNTER
	QUADRUPLEX RECEPTACLE ABOVE COUNTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
GFI/WP	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE IN WEATHER-PROOF ENCLOSURE WITH WHILE-IN-USE COVER
AFCI	ARC FAULT CIRCUIT INTERRUPTER RECEPTACLE
USB	DUPLEX RECEPTACLE WITH 2 USB PORTS
	HALF SWITCHED DUPLEX RECEPTACLE
	HALF SWITCHED QUADRUPLEX RECEPTACLE
	FULLY SWITCHED DUPLEX RECEPTACLE
	FULLY SWITCHED QUADRUPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE
	ISOLATED GROUND QUADRUPLEX RECEPTACLE. REFER TO THE CIRCUIT TAGS ON THE FLOOR PLANS FOR ADDITIONAL INFORMATION. ONLY HALF OR ALL OF THE RECEPTACLE MAY BE ISOLATED GROUND.
	CEILING MOUNTED SIMPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	CEILING MOUNTED QUADRUPLEX RECEPTACLE
	MULTI OUTLET ASSEMBLY • BASIS OF DESIGN: LEGRAND ___ SERIES • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"

POWER:

J	CEILING MOUNTED JUNCTION BOX
J	WALL JUNCTION BOX
$ M	SINGLE PHASE MANUAL MOTOR STARTER UP TO 1 HP
	MOTOR
V/W/X/Y/Z	COMBINATION MAGNETIC STARTER AND FUSED SWITCH V - SWITCH AMPERAGE RATING W - NUMBER OF POLES X - FUSE SIZE Y - NEMA RATING IF OTHER THAN NEMA 1 Z - STARTER SIZE EXAMPLE: 100/3/80/3R/3
	VARIABLE FREQUENCY DRIVE (VFD)
V/W/X/Y V/W/NF/Y	FUSED HEAVY DUTY DISCONNECT SWITCH V - SWITCH AMPERAGE RATING W - NUMBER OF POLES X - FUSE SIZE OR NON-FUSED (NF) Y - NEMA RATING IF OTHER THAN NEMA 1 EXAMPLE: 100/3/80/3R
M	METER
	GROUND BAR
	TRANSFORMER - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES INDICATE REQUIRED CLEARANCES.
	ELECTRICAL PANEL OR DISTRIBUTION BOARD - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES INDICATE REQUIRED CLEARANCES.
	AUTOMATIC TRANSFER SWITCH - ON ONE-LINE OR RISER DIAGRAM ONLY
	GROUND - ON ONE-LINE OR RISER DIAGRAM ONLY
	DELTA-WYE TRANSFORMER - ON ONE-LINE OR RISER DIAGRAM ONLY
	STANDARD TRANSFORMER - ON ONE-LINE OR RISER DIAGRAM ONLY
	CIRCUIT BREAKER - ON ONE-LINE OR RISER DIAGRAM ONLY
	FUSE - ON ONE-LINE OR RISER DIAGRAM ONLY
SPD	SURGE PROTECTIVE DEVICE (SPD)

AUDIOVISUAL / DATA / IT:

TV	TV OUTLET REFER TO FLOOR PLAN NOTES ABOUT CEILING, WALL OR FLOOR MOUNTING.
	DATA / COMMUNICATION ROUGH-IN
J	CEILING MOUNTED JUNCTION BOX
J	WALL JUNCTION BOX

TEXT LABELS:

E / e	INDICATES EXISTING ITEM TO REMAIN
ER / er	INDICATES EXISTING ITEM TO BE RELOCATED
ED / ed	INDICATES EXISTING ITEM TO BE REMOVED
N	"N", BOLD AND/OR BLANK/NOTHING - INDICATES NEW, BY CONTRACTOR
D	INDICATES RECEPTACLE SHALL BE ON DEDICATED CIRCUIT. IF CIRCUITING IS NOT YET INDICATED. RECEPTACLE MAY STILL BE DEDICATED WITHOUT "D" ANNOTATION IF IT IS SHOWN AS THE ONLY DEVICE ON A INDICATED CIRCUIT.
H-1,3,5	ONE (1) THREE-POLE CIRCUIT
L-1	ONE (1) SINGE-POLE CIRCUIT
L-1	UNDERLINE OF CIRCUIT NUMBER INDICATES ISOLATED GROUND CIRCUIT
	CONTINUATION
+XX"	INDICATES HEIGHT ABOVE FINISHED FLOOR ALL OUTLETS ARE 18" A.F.F. UNLESS NOTED OTHERWISE

CONDUIT:

	CONDUIT
	CONDUIT IN OR UNDER FLOOR
	HOMERUN TO PANEL
	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN

FLOOR DEVICES:

	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4"
	FLUSH FLOOR POKE-THRU WITH DUPLEX POWERPLUS COMMUNICATIONS • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER PLUS COMMUNICATIONS AND AV • BASIS OF DESIGN: LEGRAND 6AT SERIES • POWER CONDUIT: (1) 3/4" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4"
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS • BASIS OF DESIGN: LEGRAND 6AT SERIES • POWER CONDUIT: (1) 3/4" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS AND AV • BASIS OF DESIGN: LEGRAND 8AT SERIES • POWER CONDUIT: (1) 3/4" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR DUPLEX IN 'POURED IN PLACE' BOX. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: ________ • POWER CONDUIT: (1)1"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: ________ • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES • POWER CONDUIT: (1)1" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: ________ • POWER CONDUIT: (1)1"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES • POWER CONDUIT: (1)1" • DATA & AV CONDUIT: (1) 1-1/4"

POWERED FURNITURE:

FF	FURNITURE FEED FLUSH FLOOR POKE-THRU DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND 4FFATC15 SERIES • POWER CONDUIT: (1)3/4" • DATA CONDUIT: (1)1-1/4"
FF	FURNITURE FEED FLUSH FLOOR 'POURED IN PLACE' BOX DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND RFB2E-OG SERIES BOX WITH 6CFFTC COVER • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
P D	WALL MOUNTED DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: (2) J-BOXES WITH FACEPLATES • POWER CONDUIT: (1)3/4" • DATA CONDUIT: (1)1-1/4"
PP	POWER POLE DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND ____ SERIES

LEGEND NOTES:

1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND ELECTRICAL SCHEDULES FOR ACTUAL SIZES.
3. IF ONLY THE ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON THIS SHEET, REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR ADDITIONAL SYMBOLS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
5. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS.
6. FLOOR DEVICE AND POWERED FURNITURE NOTES:
   A. REFER TO SYMBOLS ON THE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS FOR DEVICES (IG, USB, ETC).
   B. A/V AND DATA CONDUITS SHALL BE ROUTED TO ABOVE THE NEAREST ACCESSIBLE CEILING OR TO THE NEAREST IDF/ MDF/ IT ROOM.
   C. COORDINATE ALL LOW VOLTAGE CONDUIT REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND TECHNOLOGY CONSULTANT.
   D. FOR FURNITURE FEEDS, COORDINATE WIRING CONFIGURATION WITH FURNITURE CONSULTANT (3+1 OR 2+2) PRIOR TO ORDER. CONFIGURATION SHOWN ON THESE DRAWINGS IS FOR PLACEHOLDER ONLY.
   E. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT.
   F. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING: LEGRAND, HUBBELL, FSR INC, LEVITON.
7. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

LIGHTING SYMBOLS LEGEND

LIGHTING CONTROLS:

DS	DAYLIGHT SENSOR
	DAYLIGHT ZONE
VS OS	WALL MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURER'S RECOMMENDATIONS. THIS SENSOR SHALL BE CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
VS OS VS OS	CEILING MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURER'S RECOMMENDATIONS. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	VACANCY OR OCCUPANCY SENSOR ZONE
$	SINGLE POLE SWITCH
^{LV}	LOW VOLTAGE SWITCH
^{VS} ^{OS}	VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
Đ	DIMMING LINE VOLTAGE SWITCH
Đ^{LV}	DIMMING LOW VOLTAGE SWITCH
Đ^{VS} Đ^{OS}	DIMMING VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
K	KEYPAD STATION (MULTIPLE BUTTONS OR TOUCH SCREEN). REFER TO LIGHTING CONTROLS PLANS AND NARRATIVE FOR MORE INFORMATION.
^{K}	KEY OPERATED SWITCH
^{4}	FOUR WAY SWITCH
^{3}	THREE WAY SWITCH
^{DR}	DOOR SWITCH
^{P}	PILOT SWITCH
^{T}	TIMER SWITCH

LIGHTING:

EM	INDICATES FIXTURE SHALL BE AN EMERGENCY
NL	INDICATES FIXTURE SHALL BE NIGHT LIGHT AND SHALL NOT BE SWITCHED
	SINGLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
	DOUBLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
X,x HA-XX	CAPITAL LETTERS - LIGHT FIXTURE TYPE DESIGNATION LOWER CASE LETTERS - SWITCH DESIGNATION PANEL & CIRCUIT DESIGNATION

LEGEND NOTES:

1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND ELECTRICAL SCHEDULES FOR ACTUAL SIZES.
3. IF ONLY THE ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON THIS SHEET, REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR ADDITIONAL SYMBOLS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

ELECTRICAL APPLICABLE CODES

- 2020 NATIONAL ELECTRIC CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

FIRE ALARM APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- NATIONAL FIRE PROTECTION AGENCY CODES (NFPA)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

AVAILABLE CIRCUITS - POWER AND LIGHTING

CIRCUITS SHOWN ARE BASED ON BEST KNOWLEDGE OF EXISTING PANEL PLACARDS AND PREVIOUS CONTRACT DOCUMENTS AND DO NOT NECESSARILY INDICATE THE ACTUAL PANEL CIRCUIT NUMBERS FOR USE. IT IS INTENDED TO FIRST REUSE EXISTING POWER CIRCUITS THAT ARE AVAILABLE AFTER DEMOLITION OF WALLS AND EQUIPMENT AND THEN USE AVAILABLE SPARE/SPACES AS NEEDED. CONTRACTOR SHALL VERIFY ACTUAL CIRCUIT AVAILABILITY AFTER DEMOLITION AND NOTIFY ARCHITECT IMMEDIATELY IF THE QUANTITY OF AVAILABLE CIRCUITS IS INADEQUATE. MAXIMUM OF 16 AMP LOAD PER 20A CIRCUIT

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

DEMOLITION SCOPE:

- ALL UNUSED CONDUIT, WIRE, CONDUCTORS, LOW VOLTAGE CABLING, ETC. TO BE REMOVED FROM THE CEILING SPACE.
- ALL EXISTING FIRE ALARM DEVICES IN THE CEILING THROUGHOUT THE SCOPE OF WORK SHALL BE REMOVED. REMOVE ANY FIRE ALARM DEVICES/CABLING IN WALLS AND CEILINGS BEING DEMOLISHED.
- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- REMOVE ALL DISCONNECTS, CONDUIT, AND CONDUCTORS BACK TO POWER SOURCE FOR ALL EXISTING HVAC AND PLUMBING EQUIPMENT TO BE REMOVED AS PART OF THIS CONTRACT WORK. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT TO BE REMOVED AND COORDINATE REMOVAL WITH THE RESPECTIVE TRADES PRIOR TO DEMOLITION WORK ON THE RESPECTIVE EQUIPMENT.
- IN ALL WALLS TO BE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL WALL DEVICES, LIGHTING, LIGHTING SWITCHES, BACK BOXES, WALL AND CEILING CONDUIT, AND CONDUCTORS BACK TO THE POWER SOURCE. REMOVE CONDUCTORS IN ANY EXISTING UNDERGROUND ELECTRICAL CONDUITS WHERE CIRCUITS ARE BEING REMOVED.
- COORDINATE ALL WORK WITH OWNER PRIOR TO INTERRUPTION OF EXISTING POWER TO THE CONTRACT BUILDINGS.
- EXISTING LIGHTING SHALL BE REMOVED ALONG WITH CONDUIT AND CONDUCTORS BACK TO THE POWER SOURCE.
- ALL EXISTING LIGHTING WALL DEVICES SHALL BE REMOVED AND PATCHED BACK TO WALL CONDITIONS.
- ALL EXISTING LIGHTING CONTROLS: CONDUITS, CONDUCTORS, BACK BOXES, AND WALL AND CEILING DEVICES, SHALL BE REMOVED BACK TO THE POWER SOURCE
- REMOVE ALL PANELBOARDS/SWITCHBOARDS/DISTRIBUTION BOARDS AND ASSOCIATED CONDUCTORS NOTED AS "NEW" ON SHEET iE501. CONDUIT SHALL BE EXISTING TO REMAIN, AS LONG AS THEY ARE IN GOOD CONDITION.
- PROVIDE AND INSTALL ANY REQUIRED TEMPORARY SUPPORT FOR ELECTRICAL AND LIGHTING ITEMS AND EQUIPMENT DURING ASBESTOS ABATEMENT, AND PROVIDE AND INSTALL PERMANENT SUPPORTS AFTER ABATEMENT IS COMPLETE.

POWER GENERAL NOTES:

A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
B. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND DIMENSIONED LOCATIONS PRIOR TO ROUGH-IN.
C. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
D. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY ON 10/13/2023 AND 04/10/2024. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO MAKE SURE THE QUANTITY OF SPARES FOR CIRCUIT BREAKERS IS SUFFICIENT PER ENGINEERS DESIGN. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
E. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
F. NO CONDUCTORS SMALLER THAN AWG #12 SHALL BE USED FOR POWER CIRCUITS GREATER THAN 24 VOLTS AC.
G. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
H. ALL CONDUCTORS GREATER THAN 60' IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. CONTRACTOR SHALL PROVIDE PIG-TAIL OR ENCLOSED TERMINATION BLOCKS AS REQUIRED TO LAND CIRCUITS ON DEVICES OR EQUIPMENT.
I. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
J. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN MULTIPLE SINGLE PHASE CIRCUITS. EACH SINGLE PHASE CIRCUIT SHALL HAVE A FULL SIZE DEDICATED NEUTRAL CONDUCTOR.
K. ALL INTERIOR ELECTRICAL HOMERUNS FROM PANELBOARD TO FIRST J-BOX OR DEVICE SERVED SHALL BE IN EMT CONDUIT. THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER TO USE ANY AMOUNT OF MC CABLE (FLEXIBLE METAL CLAD CABLE). IF THE OWNER DOES ALLOW MC CABLE, IT IS ONLY ALLOWED FOR FINAL CONNECTIONS TO LIGHT FIXTURES IN THE PLENUM, OR FINAL CONNECTIONS TO 120V ELECTRICAL DEVICES IN THE WALLS. NO SEGMENT OF MC CABLE SHALL EVER EXCEED SIX FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND RESTRICTIONS.
L. ALL LOW VOLTAGE WIRING INSTALLED IN CEILING SPACE THAT IS ALSO USED IN AIR PLENUM SHALL BE PLENUM RATED CONDUCTOR. WHERE OWNER'S CONSTRUCTION STANDARDS REQUIRE THAT LOW VOLTAGE WIRING BE RUN IN CONDUIT, CONDUIT SHALL BE PROPERLY LABELED AND SUPPORTED
M. FLEXIBLE CONDUIT SHALL ONLY BE USED FOR LIGHTING FIXTURE WHIPS AND MOTOR CONNECTION. ANY OTHER USE MUST FIRST BE ALLOWED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
N. FLEXIBLE CONDUIT LONGER THAN SIX FEET SHALL NOT BE ALLOWED EXCEPT WHERE SPECIFICALLY AUTHORIZED IN WRITING.
O. ALL SPARE CONDUITS AND EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
P. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT/SHORT CIRCUIT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH PANELBOARD PER SPECIFICATION SECTION 26 24 16 AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC RATING). PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATION SECTION 26 24 16. THIS MAY BE DONE USING MANUAL METHODS FOR SIMPLE SYSTEMS; HOWEVER, THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHOULD BE USED FOR LARGER SYSTEMS. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER WHEN DISTRIBUTION EQUIPMENT ARE SUBMITTED. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
Q. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN THE SCOPE OF WORK. OBTAIN BUILDING MANAGEMENT/OWNER'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPEWRITTEN.
R. ALL ELECTRICAL PANELS, TRANSFORMERS, SWITCH BOARDS, MOTOR CONTROL CENTERS AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE LABELED WITH AN ENGRAVED NAMEPLATE INDICATING THE EQUIPMENT DESIGNATION.
S. ELECTRIC CONNECTIONS TO PANELBOARDS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH BUILDING MANAGEMENT/OWNER.
T. JUNCTION BOXES AND/OR DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK WHEN FLUSH MOUNTED IN A WALL. JUNCTION BOXES AND/OR DEVICE BOXES FLUSH MOUNTED ON OPPOSITE SIDES OF A WALL SHALL NOT BE INSTALLED IN THE SAME STUD SPACE.
U. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS OR COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION OR INTENDED TO PROVIDE POWER FOR VENDING MACHINES SHALL BE GFCI TYPE DEVICES.
V. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 1" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN ACCESSIBLE CEILING FOR ALL TEL/DATA DEVICES SHOWN ON DRAWINGS. COORDINATE EXACT DEVICE LOCATION WITH OWNER'S I.T. REPRESENTATIVE AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
W. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND ¾" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN AN ACCESSIBLE CEILING FOR ALL THERMOSTATS AND SENSORS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
X. WIRING AT EXPOSED STRUCTURE: AT ALL LOCATIONS WHERE THERE IS NO CEILING, ALL WIRES / CABLES SHALL BE INSTALLED IN CONDUIT (INCLUDING ALL FIRE ALARM, TECHNOLOGY, SECURITY, BMS, ETC). ALL CONDUITS SHALL BE PROVIDED AS PART OF THIS CONTRACT. CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE IN A NEAT AND PROFESSIONAL MANNER, RUNNING LEVEL AND PARALLEL TO THE LINES OF THE BUILDING.
Y. ELECTRICAL AND FIRE ALARM CONTRACTOR SHALL REFERENCE THE MECHANICAL FRONT SHEET M0.01 FOR "MEP SHARED SYSTEM COORDINATION SCOPE OF WORK MATRIX".
Z. LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS.
AA. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
BB. REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
CC. ANY CONDUIT THAT IS ROUTED UNDERGROUND OR IN-SLAB SHALL BE A MINIMUM OF 1" CONDUIT.
DD. ISOLATED GROUND RECEPTACLES ARE FOR COMPUTER USE AND SHALL EACH HAVE INDEPENDENT NEUTRAL AND ISOLATED GROUND WIRES. THE ISOLATED GROUND WIRE SHALL TERMINATE IN AN ISOLATED GROUND BUS IN THE ELECTRIC PANEL. IF THE IG BUS DOES NOT EXIST, CONTRACTOR SHALL PROVIDE NEW BUS WITH ONE (1) #1/0 WIRE IN 3/4" CONDUIT TO GROUNDING SOURCE OF ELECTRIC PANEL.
EE. ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE BREAKERS AS SPARES.
FF. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.
GG. WHERE REQUIRED PER NEC 406.12(4), RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT TYPE.
HH. CONTRACTOR SHALL PROVIDE A 120V CIRCUIT TO EACH VAV BOX INDICATED ON HVAC PLAN FOR CONNECTION OF CONTROLS. CIRCUIT NO MORE THAN FIVE (5) BOXES PER ONE (1) 20 AMP, 120V CIRCUIT.
II. CONTRACTOR SHALL COORDINATE RELOCATION OF ELECTRICAL SERVICE TO ALL VAV AND FPB'S BEING RELOCATED UNDER THIS PROJECT, WITH ALL OTHER DISCIPLINES INVOLVED.
JJ. FIRE ALARM CONTRACTOR SHALL PROVIDE 24V TRANSFORMER FOR UP TO 5 FIRE/SMOKE DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS. FIRE/SMOKE DAMPERS SHALL INTERFACE WITH FIRE ALARM SYSTEM. UTILIZE CIRCUIT AS SHOWN ON PLANS.
KK. FIRE ALARM STROBE LIGHTS, SPEAKERS AND SMOKE DETECTORS SHALL BE TIED INTO EXISTING FIRE ALARM SYSTEM.

CHPS REQUIREMENTS:

EQ 13.1 -ELECTRIC LIGHTING PERFORMANCE
1. ALL LIGHTING SHALL BE RoHS COMPLAINT FOLLOWING THE MOST CURRENT EUROPEAN RoHS REGULATIONS, INCLUDING ALL APPLICABLE EXEMPTIONS.
2. SEE 13.2 FOR CRI AND INITIAL LIGHT OUTPUT REQUIREMENTS.

EQ 13.2 -SUPERIOR ELECTRIC LIGHTING PERFORMANCE
1. TO COMPLY WITH EQ 13.2.6: PROVIDE TEACHER CONTROL AT THE FRONT OF EACH CLASSROOM FOR GENERAL / AV MODE, WHITE BOARD CONTROL, AND FOR A MANUAL OVERRIDE OF OCCUPANCY SENSOR. OVERRIDE OF SENSOR SHALL ALLOW TEACHER TO ADJUST TIME OF OVERRIDE FOR UP TO 3 HOURS. AT THE END OF THIS PERIOD, THE DELAY SHALL AUTOMATICALLY RESTORE TO ITS INITIAL, SPECIFIED SETTING.
2. TO COMPLY WITH EQ 13.2.7: PROVIDE NETWORK CONNECTION TO ALLOW THE ON/OFF SIGNAL FROM EACH OCCUPANCY SENSOR IN EACH CLASSROOM TO CONNECT TO A SCHOOL-WIDE MANAGEMENT SYSTEM.
3. TO COMPLY WITH EQ 13.2.8: ALL LIGHTING SHALL HAVE LIGHT SOURCES WITH A CRI OF 85 OR GREATER. LED LIGHTING SHALL MEET THE FOLLOWING:
   A. IN ALL CLASSROOMS AND EDUCATIONAL LEARNING SPACES, THE MEASURED PERCENT FLICKER FROM LED SYSTEM (INCLUDING DRIVER, LED ARRAY, DIMMING CONTROLS, AND DAYLIGHT SENSOR) SHALL BE 10% OR LESS ACROSS THE ENTIRE DIMMING RANGE.
   B. LED LIGHTING SHALL MAINTAIN AT LEAST 70% OF THEIR INITIAL LIGHT OUTPUT (L70) AT 100,000 HOURS OF OPERATION.

EQ 16.1 -MERCURY REDUCTION
1. IF ANY FLUORESCENT OR HPS LAMPS, THE MERCURY CRITERIA MUST MEET THE TABLE INCLUDED IN CHPS CRITERIA.

EQ 17.1 -BUILDING ENVELOPE INTEGRITY
1. ANY WALL, FLOOR, OR CEILING OPENINGS THAT ARE CORED, DRILLED, OR CUT OUT DURING CONSTRUCTION MUST BE SEALED AND COMPLETELY CLOSED UP TO PREVENT THE FLOW OF AIR OR WATER THROUGH THE OPENING. COORDINATE WITH GC, MECHANICAL CONTRACTOR, AND PLUMBING CONTRACTOR AS NEEDED.

SS 12.1 -AVOID LIGHT POLLUTION AND UNNECESSARY LIGHTING
1. TO COMPLY WITH SS 12.1.1: ALL OUTDOOR NON-EMERGENCY LIGHTING WILL BE AUTOMATICALLY CONTROLLED TO TURN OFF AFTER HOURS. PROVIDE MANUAL OVERRIDE CAPABILITY FOR AFTER-HOURS USE WITH TIMED AUTOMATIC SHUT-OFF (DARK CAMPUS SCENARIO).

PER DISD TDG 01 10 00: 10 –
A. A. WIRING SHALL COMPLY WITH EQ 15.1 LOW EMF WIRING AND TESTING REQUIREMENTS. CONTRACTOR SHALL FOLLOW THE BELOW REQUIREMENTS FOR COMPLIANCE:
   a. ALL WIRING SHALL BE COMPLIANCE WITH NEC 2017
   b. PROPERLY WIRE ALL PANELS WITH CORRECT NEUTRAL-TO-GROUND RELATIONSHIPS AND BONDING
   c. PROPERLY WIRE ALL 3-WAY SWITCH WIRING AND RECEPTACLE CIRCUITS.
   d. AVOID NEUTRALS FROM SEPARATE BRANCH CIRCUITS BEING CONNECTED ANYWHERE BEYOND THE PANEL OF ORIGIN FOR THE CIRCUITS
   e. AVOID NEUTRAL-GROUND SHORTS ANYWHERE IN THE SYSTEM
   f. CONTRACTOR SHALL CHECK EACH ROOM/SPACE FOR CORRECT WIRING AND MEASURE EXTREMELY LOW FREQUENCY (ELF) MAGNETIC FIELD EXPOSURE LEVELS (tRMS) COMPLYING WITH 1 mG (100 nT). REFER TO TABLE 10 IN 2015 CHPS CRITERIA FOR FURTHER INFORMATION.

EMERGENCY RESPONDER RADIO COVERAGE:

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE PATHWAYS FOR A TURN KEY EMERGENCY RESPONDER RADIO COVERAGE SYSTEM PER 2021 IFC SECTIONS 510 AND 1103.2. EXACT REQUIREMENTS WILL NOT BE DETERMINED UNTIL NEAR CONSTRUCTION COMPLETION WHEN RADIO COVERAGE TEST CAN BE COMPLETED BY FIRE ALARM CONTRACTOR. IN ORDER TO HAVE PATHWAYS INSTALLED AND READY SHOULD A NEW RADIO SYSTEM BE REQUIRED, ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 2" CONDUIT ON EACH FLOOR THAT EXTENDS THE ENTIRE LENGTH AND NUMBER OF BENDS. ENSURE THAT CONDUIT ENDS AND PULL POINTS ARE LOCATED ABOVE AN ACCESSIBLE CEILING.

ELECTRICAL ALLOWANCES:

FIRE ALARM
- PROVIDE (1) 120V/20A DEDICATED CIRCUIT IN EACH ELECTRICAL ROOM FOR FIRE ALARM BOOSTER PANEL.

FIRE SMOKE DAMPERS
- PROVIDE DEDICATED 120V/20A CIRCUIT IN EACH ELECTRICAL ROOM TO PROVIDE POWER FOR FIRE SMOKE DAMPERS. POWER SHOULD BE RUN FROM PANEL TO 24V TRANSFORMER (PROVIDED BY FIRE ALARM CONTRACTOR) TO SERVE FIRE SMOKE DAMPERS

LIGHTING CONTROLS
- REFER TO LIGHTING CONTROLS NARRATIVE ON THIS SHEET.

SIGNAGE
- PROVIDE DEDICATED 120V/20A CIRCUIT FROM THE CLOSEST 120/208V PANELBOARD WITH AVAILABLE CAPACITY IN (1) 1" CONDUIT W/ PULLSTRING FOR POWER AND (1) 1" CONDUIT W/ PULLSTRING FOR DATA TO SITE DIGITAL MARQUEE SIGNAGE LOCATED AT THE MAIN ENTRANCE DRIVE. POWER CIRCUIT SHALL BE ROUTED UNDERGROUND TO THE MARQUEE SIGN LOCATION ON THE SITE.
- PROVIDE 120V/20A CIRCUIT AND (1) 1" CONDUIT AND PULLSTRING FOR DATA TO SITE SIGNAGE LOCATED AT EACH MAIN ENTRY TO SITE.

GENERAL FIRE ALARM NOTES

BASIS OF DESIGN: NOTIFIER SYSTEM

A. A COMPLETE FIRE ALARM SYSTEM SHALL BE DESIGNED, PROVIDED, AND INSTALLED THROUGHOUT THE CONTRACT AREA BY A FIRM LICENSED TO DESIGN AND INSTALL FIRE ALARM SYSTEMS IN THE PHYSICAL JURISDICTION IN WHICH THE SYSTEM IS TO BE INSTALLED. THE FIRM SHALL HAVE ALL CREDENTIALS AND PROOF OF REQUIRED INSURANCE SUBMITTED WITH THE BID DOCUMENTS.

B. COMPLETE FIRE ALARM PLANS AND EQUIPMENT CUT SHEETS FOR ALL FIRE ALARM EQUIPMENT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW, APPROVAL AND PERMIT PRIOR TO INSTALLATION. SUBMITTAL DOCUMENTS SHALL INCLUDE VOLTAGE DROP CALCULATIONS FOR ALL FIRE ALARM CONDUCTORS. THESE SAME DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW TO ENSURE THE SYSTEM DOES NOT, WITHIN THE LIMITS OF APPLICABLE CODES AND REQUIREMENTS, CONFLICT WITH THE ARCHITECTURAL INTENT OF THE FACILITY.

C. THE COMPLETED FIRE ALARM SYSTEM SHALL BE AN INTELLIGENT ADDRESSABLE SYSTEM AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. THE SYSTEM SHALL INCLUDE ALL DEVICES SUCH AS, BUT NOT LIMITED TO, FLOW AND TAMPER SWITCHES, CEILING MOUNTED SMOKE DETECTORS, CEILING MOUNTED HEAT DETECTORS, DUCT SMOKE DETECTORS IN THE SUPPLY AND/OR RETURN DUCTS AS REQUIRED BY CODE AND BY THE LOCAL AUTHORITY HAVING JURISDICTION, DETECTORS AT ALL FIRE/SMOKE DAMPERS, SHUNT/TRIP CONTROL OF ELEVATORS, NOTIFICATION DEVICES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER'S DESIGN STANDARDS. NOTIFICATION DEVICES SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER SUCH LOCAL CODES.

D. THE FIRE ALARM SYSTEM SHALL BE EQUIPPED WITH A COMPUTER BASED CONTROL SOFTWARE PACKAGE THAT WILL PROVIDE FOR OFF-SITE MONITORING AND CONTROL. THE CONTROL SYSTEM SHALL BE CAPABLE OF PROVIDING GRAPHIC DISPLAY SHOWING LOCATIONS AND STATE OF FIRE ALARM DEVICES. THE FIRE ALARM CONTROL SYSTEM SHALL BE CAPABLE OF PRODUCING A COMPLETE HISTORY LOG OR REPORT.

E. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE ALARM SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

F. PROVIDE NEW TURNKEY ADA/CODE COMPLIANT FIRE ALARM SYSTEM FOR THE ENTIRE SCHOOL AND ALL ASSOCIATED OUT BUILDINGS AND PORTABLE MODULAR CLASS ROOM BUILDINGS ON CAMPUS AS SHOWN ON SITE PLAN. REFER TO FIRE ALARM SPECIFICATION SECTION 283111 - DIGITAL ADDRESSABLE FIRE-ALARM SYSTEM. COMPLETELY DEMOLISH THE EXISTING SYSTEM.

G. IN THE EVENT THE OWNER ADDS OR REMOVES PORTABLE MODULAR CLASS ROOM BUILDINGS AFTER THE BID IS AWARDED, AS PART OF YOUR BID, PROVIDE UNIT COSTS TO ADD OR DELETE THIS NEW FIRE ALARM SYSTEM IN AN ADDED OR REMOVED PORTABLE MODULAR CLASS ROOM BUILDING.

H. PER DISD, INCLUDE RELAYS FOR AUDIO SHUNT TO PA AND SOUND SYSTEMS. THIS IS MEANT TO ENSURE THE FIRE ALARM IS HEARD WHEN ACTIVATED.

I. REFER TO DISD TDG FOR FURTHER INFORMATION REGARDING THE FIRE ALARM SYSTEM AND REQUIREMENTS

KEY PLAN

#	DATE	CHANGE DESCRIPTION

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THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS INDEPENDENT SCHOOL DISTRICT
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FOR
DISD

Moody Nolan

DRAWING TITLE:
ELECTRICAL NOTES & SYMBOLS

STATE OF TEXAS
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DISD DESIGN GUIDELINES

GUIDELINE SECTION	NOTES
COMMON WORK RESULTS FOR ELECTRICAL REQUIREMENTS	
26 05 00: 6.1	IDF PANELBOARDS SHALL BE LABELED TO INDICATE THEIR USE ONLY FOR TECHNOLOGY SYSTEMS. IDF PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
26 05 00: 6.2	SURGE PROTECTION DEVICES (SPD) ON DISTRIBUTION PANELBOARDS SHALL BE WIRED INTO PANELS USING WIRE LEADS NO LONGER THEN 18 INCHES.
26 05 00: 6.3	MDF/IDF ROOM POWER CIRCUITS FOR RACK MOUNTED EQUIPMENT AND EQUIPMENT IN COMMUNICATION ROOMS SHALL HAVE SPD PROTECTION.
26 05 00: 6.4	HVAC EQUIPMENT SHALL BE ON SEPARATE POWER CIRCUITS, AND ON DEDICATED PANELBOARD SEPARATE FROM OTHER LOADS.
26 05 00: 7.3	CONDUITS SHALL NOT BE PLACED OR ROUTED UNDER SLAB FLOOR.
26 05 00: 7.4	SUSPEND CONDUIT FROM THE BUILDING STRUCTURE, NOT FROM LAY-IN CEILING SUSPENSION SYSTEM OR SIMILAR MEANS.
26 05 00: 7.5	USE OF METAL CLAD (MC) CABLE/FLEXIBLE CONDUIT IS NOT ALLOWED EXCEPT FOR LIGHTING FIXTURE WHIPS.
26 05 00: 7.6	USE OF ALUMINUM WIRING IS NOT ALLOWED.
26 05 00: 8.1	RACEWAYS SHALL BE ALLOWED IN COMPUTER LABS ONLY WHEN WALL CONSTRUCTION TYPE WILL NOT ALLOW CONCEALED CONDUITS.
26 05 00: 8.2	RACEWAYS SHALL ACCOMMODATE 20 TECHNOLOGY OUTLETS AND 10 QUAD ISOLATED GROUND ELECTRICAL OUTLETS.
26 05 00: 8.3	RACEWAYS ARE NOT ALLOWED TO BE CAST INTO THE CONCRETE FLOOR SYSTEM AND RAISED FLOORING SYSTEM.
26 05 00: 8.4	ALL RACEWAYS SHALL BE INSTALLED AS DISCRETELY AS POSSIBLE WITH LITTLE OR NO DISTURBANCE TO CLASSROOM FUNCTIONALITY OR AESTHETIC.
26 05 00: 8.5	RACEWAYS SHALL BE LIMITED TO (1) VERTICAL RACEWAY PER WALL WHERE POSSIBLE.
26 05 00: 8.6	RACEWAYS LOCATED IN OPEN CEILING AREAS AND ON EXTERIOR PATHWAYS SHALL BE METAL WITH TAMPER RESISTANT SCREWS. COORDINATE THE FINISH OF THE RACEWAY WITH ARCHITECT.
26 21 00: 1.5	PROVIDE 1" CONDUIT TO CONNECT THE METER DEMAND PULSE DEVICE IN THE ELECTRIC METER ENCLOSURE TO THE EMCS DEVICE LOCATED IN THE BUILDING.
26 21 00: 1.7	MAIN SERVICE ENTRANCE EQUIPMENT SHALL HAVE A POWER MONITORING UNIT EQUAL TO A SQUARE D POWERLOGIC UNIT. THE UNIT SHALL PROVIDE POWER MONITORING, POWER REPORTING, ALARM NOTIFICATION (LOSS OF POWER), AND CONNECT INTO THE DALLAS ISD ENERGY MANAGEMENT SYSTEM.
26 28 00: 1	PROVIDE THERMO-MAGNETIC BREAKERS (INCLUDING BREAKERS WITH GFI PROTECTION) EXCEPT WHERE NOT ALLOWED BY THE NEC.
26 28 00: 2	DIGITAL SOLID STATE BREAKERS SHALL ONLY BE USED WHERE REQURIED BY THE NEC.
27 05 00: 5.1.8.3.5	POWER CLUSTERS AT MDF/IDF ROOMS SHALL INCLUDE: (2) L6-30 RECEPTACLES FOR UPS, (2) 208V, 20A L6-20 TWIST-LOCK RECEPTACLES, AND (2) 120V, 20A QUAD 5P-20 RECEPTACLES
FIRE ALARM REQUIREMENTS	
28 46 21: 1.2	NOTIFIER #NFS2-3030 IS THE PREFERRED SYSTEM A WAIVER FROM DALLAS ISD CONSTRUCTION SERVICES IS REQUIRED FOR THE USE OF OTHER SYSTEMS. THE NOTIFIER SYSTEM SHALL HAVE PROVISIONS FOR NETWORKING INTO DISD'S CENTRAL CONTROL AND NOTIFICATION SYSTEM TO BE MONITORED FROM A CENTRAL LOCATION.
28 46 21: 2.1.1	THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.
28 46 21: 2.1.2	THE FIRE ALARM PANELS SHALL HAVE INTEGRAL DIALERS CAPABLE OF REMOTE UPLOADING AND DOWNLOADING FEATURES.
28 46 21: 2.1.3	DOOR HOLDERS SHALL BE ELECTROMAGNETIC AND CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. ELECTROMECHANICAL DEVICES ARE NOT ACCPETABLE.
28 46 21: 2.1.4	FIRE ALARM SYSTEM SHALL HAVE SURGE PROTECTION AT EACH LOCATION THE SIGNALING LINE CIRCUIT LEAVES THE MAIN BUILDING OR RETURNS TO THE BUILDING FROM PORTABLES.
28 46 21: 2.1.5	FIRE ALARM SYSTEM SHALL HAVE VOICE ANNUNCIATION.
28 46 21: 2.1.6	CEILING-MOUNTED AUDIO/VISUAL DEVICES ARE PREFERRED.
28 46 21: 2.1.7	PULL STATION PROTECTORS WITH INTEGRAL HORN ARE REQUIRED FOR ALL MANUAL PULL STATIONS LOCATED IN GYMNASIUM.
28 46 21: 2.1.13	FIRE ALARM CONTROL PANELS (FACP) SHALL BE LOCATED IN THE MAIN ADMINISTRATIVE OFFICE.
28 46 21: 2.1.14	ALL FIRE ALARM AC BREAKERS SHALL HAVE LOCK-ON DEVICES INSTALLED PER NEC 70 ELECTRICAL CODE.
28 46 21: 3.1	THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH DISTRICT TO PROVIDE ANY DEDICATED PHONE LINE THAT ARE REQUIRED.
LIGHT FIXTURE REQUIREMENTS	
26 50 00: 1.4	EXIT AND EMERGENCY EGRESS LIGHTING SHALL BE CONNECTED TO A BRANCH CIRCUIT SERVING LIGHTING IN THE AREA AHEAD OF ANY SWITCHING.
26 50 00: 1.6	STAIRWELL LIGHTING SHALL BE WALL-MOUNTED, CENTERED ABOVE THE LANDINGS, AND IT SHALL AVOID FIXTURE PLACEMENT ABOVE STAIR RUNS.
26 50 00: 2.4	ALL LED LIGHT FIXTURES SHALL BE 4000K
26 50 00: 3	ALL HIGH BAY LUMINAIRES LOCATED IN GYMS, PLAY AREAS, MULTIPURPOSE SPACES, ETC TO HAVE A WIRE GUARD. LENS, IF PROVIDED, OR WIRE GUARD OF HIGH BAY LUMINAIRES SHALL BE HINGED AND TO HAVE RETAINER LATCHES FOR TOOL-LESS MAINTENANCE.
26 50 00: 4.5	EXIT SIGNS IN GYMS SHALL HAVE A WIRE GUARD.
26 50 00: 4.7	ALL EXIT SIGNS SHALL HAVE VANDAL RESISTANT HOUSING IN ALL LOCATIONS.
26 52 13: 1	EMERGENCY LIGHTING FIXTURES SHALL BE TWO-LAMP, LED, WALL-MOUNTED 'BUG-EYE" FIXTURES
LIGHTING CONTROL REQUIREMENTS	
26 09 41: 1.3	SEQUENCE OF OPERATIONS AND SCENE DESCRIPTIONS FOR EACH SPACE TYPE SHALL BE CLEARLY PROVIDED ON THE LIGHTING DRAWINGS SHEETS. ONE GENERAL LIGHTING SEQUENCE THAT APPLIES TO MANY OR ALL ROOM TYPES IS NOT ALLOWED.
26 09 41: 1.4	INTERIOR LIGHTING CONTROLS ARE NOT TO BE INTEGRATED INTO BUILDING ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) BUT ARE CAPABLE OF INTEGRATION IN THE FUTURE.
26 09 41: 1.5	BATTERY OPERATED DEVICES AND CONTROLS ARE NOT ALLOWED.
26 09 41: 1.6	THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
26 09 41: 2.1.1	ROOM > 40SQFT: MOTION SENSORS SHALL BE PREFERABLY CORNER MOUNTED OR CEILING MOUNTED.
26 09 41: 2.1.2	ROOM < 40 SQFT: SENSOR SWITCHES SHALL BE ALLOWED IN ROOMS.
26 09 41: 2.1.4	ALL MOTION SENSORS TO BE SET TO 20 MINUTE TIME DELAY OR TO CODE SPECIFIED AMOUNT WHICHEVER IS MORE STRINGENT AND ADJUSTED TO MAXIMUM SENSITIVITY, UNLESS OTHERWISE NOTED ON THE DRAWINGS. SENSORS TO BE CAPABLE OF BEING SET TO 5 MINUTES AND 1 MINUTE FOR TESTING.
26 09 41: 2.2.3	WHERE KEYED SWITCHES ARE INDICATED ON THE PLANS (GROUP STUDENT RESTROOMS ONLY), THE “OFF” FEATURE OF THE SMART SWITCH IS TO BE DISABLED FOR A SCHEDULE SIMILAR TO 7AM-5PM. COORDINATE AND PROGRAM EXACT SCHEDULE WITH DALLAS ISD.
26 09 41: 2.3.1	IN THE EVENT OF A HARDWARE OR SOFTWARE OR COMPONENT FAILURE, THE LIGHTING IN THE SPACE IS TO DEFAULT TO THE "ON" POSITION.
26 09 41: 2.3.2	LOCATE THE ROOM CONTROLLER ABOVE THE LAY-IN CEILING ABOVE THE SWITCHES NEAR THE EXIT DOOR. PROVIDE A PERMANENT LABEL ON THE LAY-IN CEILING GRID TO IDENTIFY ITS LOCATION. THE LABEL SHALL SAY “LIGHTING CONTROLLER”.
LOW-VOLTAGE DISTRIBUTION EQUIPMENT REQUIREMENTS	
26 27 00: 1	LIMIT THE NUMBER OF RECEPTACLES ON A CIRCUIT TO SEVEN.
26 27 00: 2	NO MORE THAN THREE QUAD POWER RECEPTACLES ARE ALLOWED PER CIRCUIT FOR ANY LOCATION.
26 27 00: 3	NO SHARING OF CIRCUITS BETWEEN ROOMS OR AREAS IS ALLOWED.
26 27 00: 4	FLOOR RECEPTACLES ARE NOT PERMITTED, EXCEPT WHERE REQUIRED BY CODE.
26 27 00: 6	ALL CONVENIENCE RECEPTACLES AND MOTORS 1/4HP OR LESS SHALL BE 120V.
26 27 00: 7	SWITCH AND RECEPTACLE COVER PLATES SHALL BE BRUSHED STAINLESS STEEL.
26 27 00: 8	OUTDOOR RECEPTACLES SHALL BE LOCATED ADJACENT TO EACH EXTERIOR DOOR, AND PLASTIC COVERS ON EXTERIOR RECEPTACLES ARE NOT ALLOWED.
26 27 00: 9	AT EACH COPY MACHINE LOCATION, PROVIDE BOTH 240V AND 120V RECEPTACLES ON DEDICATED POWER CIRCUITS.
26 27 00: 10	AT EACH INSTANCE OF HORIZONTAL WINDOW BLINDS, COORDINATE WITH THE ARCHITECT TO DETERMINE THE LOCATIONS OF MANUAL AND MOTORIZED BLINDS. PROVIDE 120V POWER CIRCUITING TO THE MOTORIZED BLINDS AT ALL LOCATIONS OF MOTORIZED BLINDS.
26 27 00: 11	SWITCHES AND RECEPTACLES WITHIN CHALKBOARDS, MARKERBOARDS, OR TACKBOARDS ARE NOT ALLOWED.
26 27 00: 13	ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY DALLAS ISD, SUCH AS KITCHEN EQUIPMENT, APPLIANCES, SHOP EQUIPMENT, ETC. SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE. PROVIDE DEDICATED POWER CIRCUITS FOR EQUIPMENT.
26 27 00: 15	ALL RECEPTACLES IN MDF/IDF SPACE TO BE POWERED BY DEDICATED CIRCUITS WITH SURGE PROTECTION DEVICE (SPD).
26 27 00: 17	PROVIDE (1) QUAD RECEPTACLE AT EACH CASH REGISTER OR POINT-OF-SALE (POS) REGISTER IN CAFETERIA AND CAFETERIA MANAGER'S OFFICE. PROVIDE SURGE PROTECTION DEVICE (SPD) ON ELECTRICAL CIRCUIT.
26 27 00: 19	PROVIDE 120V POWER CIRCUITING TO LIGHTING CONTROL BOARD, SOUND CONTROL MIXER, AMPLIFIERS, EQUALIZERS, PROCESSORS, INTERCOM SYSTEM, CD PLAYER, AND AUDIO/VISUAL PROJECTOR SYSTEM, AS APPLICABLE IN STAGE AREA.
26 27 00: 22.1	PROVIDE GROUNDED QUAD POWER OUTLETS INSIDE OF ALL ADJUSTABLE STORAGE CABINETS, AT LEAST (2) PER WALL IN LIBRARY STORAGE SUB ROOMS.
26 27 00: 22.3	PROVIDE (2) QUAD OUTLETS PER CIRCULATION DESK AREA.
26 27 00: 23	PROVIDE (3) TO (4) GROUNDED QUAD OUTLETS PER WALL IN MAKERSPACES AND LEARNING EXPERIENCE SPACES.
27 05 00: 3.2.2	ELECTRICAL POWER IN MDF/IDF ROOMS TO BE PROVIDED VIA DEDICATED ISOLATED GROUND POWER CIRCUIT.
27 05 00: 5.2.2.3	EACH DATAPORT FACEPLATE IS TO BE PAIRED WITH A QUAD RECEPTACLE LOCATED WITHIN 18". ONE DUPLEX POWER SHALL BE LOCATED BEHIND THE INTERACTIVE DISPLAY LOCATION.

DISD PHASING NOTES:

A. THE CONTRACTOR SHALL COORDINATE WITH THE GC TO PRODUCE A PHASING PLAN. THE FOLLOWING NOTES ARE PER DISD'S DIRECTION AND SHALL BE ACCOUNTED FOR IN THE PHASING PLAN.

B. FOR ALL RENOVATION SCOPE, THE CONTRACTOR TO PERFORM ALL WORK IN EVENING HOURS, WEEKENDS, AND / OR HOLIDAYS. NO INDOOR WORK SHALL BE ALLOWED DURING SCHOOL HOURS.

C. FOR ALL RENOVATION SCOPE, OUTDOOR WORK COULD BE ALLOWED DURING SCHOOL HOURS IF APPROVED BY DISD SAFETY AND SCHOOL MANAGEMENT.

D. CONTRACTOR MUST TEST EXISTING ACCESS CONTROL, SECURITY, PUBLIC ADDRESS & FIRE ALARM SYSTEMS PRIOR TO START OF ANY WORK. IF ANY DEFICIENCY FOUND, THE CONTRACTOR SHALL BRING IT TO THE PROJECT MANAGER'S ATTENTION IN WRITING. IF THE CONTRACTOR CHOOSES TO START THE WORK WITHOUT TESTING THESE EXISTING SYSTEMS, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THESE SYSTEMS AT NO COST TO THE OWNER.

E. CONTRACTOR MUST TAKE SCREEN SHOT OF EXISTING HVAC CONTROL SYSTEM PRIOR TO START OF ANY WORK. IF ANY EQUIPMENT / CONTROL IS FOUND TO BE NOT WORKING, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING. IF THE CONTRACTOR CHOOSES TO START THE WORK WITHOUT CHECKING THE EXISTING HVAC CONTROL SYSTEMS, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE SYSTEM AT NO COST TO THE OWNER.

F. THE EXISTING SYSTEMS (PA, FA, ACCESS CONTROL, SECURITY & HVAC CONTROL) MUST STAY OPERATIONAL THROUGHOUT THE CONSTRUCTION PHASE UNTIL THE NEW SYSTEMS ARE ACTIVATED.

G. AFTER SWITCHING OVER TO THE NEW SYSTEM (PA, FA, ACCESS & SECURITY), THE CONTRACTOR SHALL REMOVE THE OLD SYSTEM DEVICES IN ITS ENTIRETY, INCLUDING ALL RELATED COMPONENTS. CONTRACTOR SHALL PATCH / PAINT ALL DAMAGED AREA AFTER THE REMOVAL OF THE EXISTING DEVICES, INCLUDING CONDUITS.

H. BEFORE ANY TRENCH EXCAVATION STARTS, THE GC SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL CONNECTION POINTS OF ALL UNDERGROUND UTILITIES WHERE NEW WORK WILL BE CONNECTED TO EXISTING LINES SERVICES. FAILURE TO DO SO WILL RESULT IN HOLDING THE GC RESPONSIBLE FOR PROVIDING A MODIFIED SCOPE OF WORK EQUAL IN QUANTITIES TO THAT IN THE BID DOCUMENTS.

LIGHTING CONTROL NARRATIVE:

THE FOLLOWING SUMMARY PROVIDES THE DESIGN INTENT FOR LIGHTING CONTROLS AND ZONES THAT COMPLIES WITH THE ENERGY CODE LISTED ON THIS SHEET UNDER THE "ELECTRICAL APPLICABLE CODE" NOTE. ALTHOUGH THE DESIGN IS AROUND A SPECIFIC MANUFACTURER'S SYSTEM, THE LIGHTING CONTROL SYSTEM IS NOT RESTRICTED TO BEING PROVIDED BY THAT MANUFACTURER REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS. THE SPECIFIC MANUFACTURER'S SYSTEM IS SHOWN TO CONVEY THE INTENDED LEVEL OF QUALITY AND CAPABILITY OF THE SYSTEM:

BASIS OF DESIGN MANUFACTURER AND SYSTEM:

ACUITY NLIGHT
TOM MENDOZA, HORTON CONTROLS GROUP
CELL: (214) 658-9030
TMENDOZA@HORTONCONTROLSGROUP.COM

GENERAL LIGHTING CONTROLS REQUIREMENTS:

DISD REQUIREMENT:
- LIGHTING CONTROLS SHALL COMPLY WITH TX-CHPS.

BUILDING MANAGEMENT SYSTEM (BMS) INTEGRATION:
- LIGHTING CONTROL SYSTEM SHALL BE CAPABLE OF BEING INTEGRATED INTO BMS. HOWEVER, PER THE CURRENT DISD GUIDELINES IT SHALL NOT BE INTEGRATED INTO THE BMS DURING THIS SCOPE OF WORK. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH BMS CONTRACTOR AND LIGHTING CONTROL VENDOR FOR ALL INTEGRATION REQUIREMENTS AND PROVIDE ALL NECESSARY ACCESSORIES TO ENSURE THE LIGHTING CONTROLS SYSTEM IS BMS READY. THE LIGHTING CONTROL SYSTEM IS PROHIBITED FROM TYING INTO THE DISD NETWORK. ACCESS TO THE NETWORK LIGHTING CONTROL SYSTEM SHALL BE PERFORMED WITH THE USE OF A PORTABLE LAPTOP (PROVIDED BY DISD) CONNECTED TO THE LIGHTING CONTROL PROCESSOR, AS NEEDED.

SEQUENCE OF OPERATIONS -REQUIRED IN SUBMITTAL:
- A NARRATIVE DESCRIPTION OF THE SEQUENCE OF OPERATIONS FOR EACH SPACE IN SHALL BE INCLUDED IN THE CONTROLS SUBMITTAL, IN ADDITION TO THE DIAGRAMS AND PRODUCT DATA. ANY CONTROLS SUBMITTAL WITHOUT CLEAR NARRATIVES OF THE CONTROLS IN EACH SPACE (THAT A LAY PERSON COULD UNDERSTAND) WILL BE REJECTED AND REQUIRED TO BE RESUBMITTED WITH NARRATIVES.

POWER COORDINATION:
- CONTRACTOR SHALL PROVIDE DEDICATED POWER TO LIGHTING CONTROL SYSTEM PROCESSORS, GATEWAYS, AND ALL NECESSARY ACCESSORIES AS REQUIRED BY THE SPECIFIC LIGHTING CONTROL MANUFACTURER. NO DEVICES WITH BATTERIES ALLOWED. ONLY COMMUNICATION IS ALLOWED TO BE WIRELESS. ALL POWER TO SWITCHES AND DEVICES MUST BE HARDWIRED. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR THE INTERFERENCE OF STRUCTURAL COMPONENTS.

PLUG LOAD CONTROLS:
- THIS PROJECT HAS PLUG LOAD CONTROLS THROUGHOUT THE SPACES LISTED BELOW AS REQUIRED PER IECC. REFER TO THE ELECTRICAL FLOOR PLANS FOR NUMBER AND LOCATION OF RECEPTACLES THAT NEED TO BE CONTROLLED VIA LIGHTING CONTROLS OCCUPANCY SENSORS.
  - PRIVATE OFFICES
  - CONFERENCE ROOMS
  - PRINT/COPY ROOMS
  - BREAKROOMS
  - CLASSROOMS
  - INDIVIDUAL WORKSTATIONS – INCLUDING THOSE INSTALLED IN MODULAR FURNITURE.

COMMISSIONING AGENT:
- THE LIGHT FIXTURES AND LIGHTING CONTROLS SHALL HAVE THE SAME MANUFACTURER REPRESENTATIVE TO ENSURE A SINGLE POINT OF CONTACT FOR THE TENANT AND OWNER DURING LIGHTING AND LIGHTING CONTROLS COMMISSIONING.

MINIMUM REQUIRED SEQUENCE OF OPERATIONS (SOO) BY SPACE TYPE:

ELECTRICAL, MECHANICAL, MDF/IDF/DATA ROOMS
- PROVIDE SINGLE POLE SWITCH ADJACENT TO DOOR. AUTOMATIC CONTROL SHALL NOT BE REQUIRED FOR SAFETY REASONS.

GROUP STUDENT RESTROOMS
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR AND KEYED SWITCHES AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTO ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED.
- THE "OFF" FEATURE OF KEYED SWITCHES IN GROUP STUDENT RESTROOMS SHALL BE DISABLED FOR A SCHEDULE SIMILAR TO 7AM-5PM. COORDINATE AND PROGRAM THE EXACT SCHEDULE WITH DALLAS ISD.

INDIVIDUAL STAFF/STUDENT RESTROOMS
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR AND LOW VOLTAGE SWITCHES AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTO ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED.

LOBBIES AND CORRIDORS
- PROVIDE OCCUPANCY SENSOR(S)
- NORMAL HOURS: ALL LIGHTING ZONES SHALL AUTOMATICALLY TURN ON TO 100% WHEN THE CORRIDOR IS OCCUPIED, AUTO OFF AFTER 20 MINUTES OF INACTIVITY, MANUAL OFF VIA LOCAL KEYPAD.
- AFTER HOURS: ALL LIGHTING ZONES SHALL BE CONTROLLED ON/OFF VIA LOCAL OVERRIDE KEYPADS AND AUTO OFF AFTER 20 MINUTES OF INACTIVITY. AFTER HOURS OVERRIDE SHALL ENABLE ON FOR 1.5 HOURS; A WARNING FLASH SHALL OCCUR 5 MINUTES PRIOR TO TIME-OUT.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED UNLESS NOTED OTHERWISE.
- THOSE TIMES AND DIM SETTINGS SHALL BE ADJUSTABLE BY DISD.
- ALL ZONES SHALL BE DIMMABLE.
- REFER TO THE DAYLIGHTING SECTION OF THIS NARRATIVE WHERE APPLICABLE.

ENCLOSED OFFICES
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND DIMMING LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE MANUAL ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY
- ALL ZONES SHALL BE DIMMABLE.
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

OPEN OFFICES
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTO ON/OFF. MANUAL OVERRIDE SHALL PROVIDE MANUAL ON/ OFF AS WELL.
- EACH 600 SQFT (OR LESS) OF FLOOR SPACE SHALL HAVE A SEPARATE CONTROL ZONE. ONCE ZONE IS VACANT FOR MORE THAN 20 MINUTES DURING OCCUPIED HOURS, ZONE SHALL DIM TO 20% FIXTURE OUTPUT UNTIL OCCUPIED AGAIN.
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

ENCLOSED ROOMS (CONFERENCE, STORAGE, ETC:)
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE MANUAL ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

CLASSROOMS (STANDARD CLASSROOM, SCIENCE LABS, CULINARY ROOMS, ART ROOMS AND LECTURE HALLS, ETC.)
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE KEYPADS: ONE AT THE TEACHING WALL AND ONE AT THE ENTRANCE TO THE CLASSROOM
- LIGHTING SHALL BE MANUAL ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.
- TO MEET CHPS 13.2.6 REQUIREMENTS, TEACHERS SHALL BE ABLE TO MANUALLY OVERRIDE THE TIME DELAY FOR THE OCCUPANCY SENSOR FOR A SPECIFIC NEED OF UP TO 3 HOURS. AT THE END OF THE SPECIAL PERIOD, THE DELAY IS AUTOMATICALLY RESET TO ITS INITIAL, SPECIFIED SETTING
- SMART SWITCHES SHALL HAVE THE FOLLOWING BUTTONS:
  a. ON/OFF
     - ON SHALL ACTIVATE LIGHTING TO 100% CAPACITY AND NOT RETURN LIGHTING TO PREVIOUS SETTING
     - OFF SHALL DEACTIVATE ALL ROOM LIGHTING TO 0%
  b. SCENE 1: TEACHING WALL
  c. SCENE 2: AV MODE
  d. DIMMING CONTROL UP
     - DIMMING MODES SHALL BE CAPABLE OF INCREASING AND DECREASING LIGHTING LEVELS IN ALL OPERATIONAL MODES
  e. DIMMING CONTROL DOWN
     - DIMMING MODES SHALL BE CAPABLE OF INCREASING AND DECREASING LIGHTING LEVELS IN ALL OPERATIONS MODES
- CLASSROOM SHALL BE NETWORKED TO A CENTRALIZED PROCESSOR TO ALLOW FOR THE OCCUPANCY SENSORS TO BE INTEGRATED OPERATION AN VISIBILITY FROM A SINGLE POINT. A DEDICATED PC SHALL BE PROVIDED BY THE SCHOOL FOR SOFTWARE TO BE INSTALLED. THE CENTRALIZED PROCESSOR SHALL ALSO ALLOW FOR BACNET/IP COMMUNICATION WITH BMS SYSTEM INTEGRATION SUCH THAT THE ON/OFF SIGNAL FROM ALL CLASSROOM OCCUPANCY SENSORS CAN BE SEEN THROUGH THE BMS, OWNER TRAINING SHALL BE PERFORMED BY THE LIGHTING CONTROLS MANUFACTURER WITH THE ASSISTANCE OF THE ELECTRICAL CONTRACTOR.

DAYLIGHT ZONES
- PROVIDE PHOTOCELL AND MANUAL OVERRIDE SWITCH AS INDICATED ON ELECTRICAL PLANS AND FOR ALL FIXTURES WITHIN THE CEILING HEIGHT DISTANCE OF WINDOWS
- PHOTOCELL SHALL ENABLE AUTOMATIC DIMMING IN ACCORDANCE WITH ENERGY CODE REQUIREMENTS.
- MANUAL OVERRIDE SWITCH SHALL ENABLE MANUAL DIMMING & ON/OFF, AS WELL.

STAGE LIGHTING
- PROVIDE STAND-ALONE DMX/ETC CONTROLS FOR STAGE LIGHTING
- STAGE LIGHTING SHALL BE MANUAL ON, MANUAL OFF
- STAGE LIGHTING SHALL BE INTEGRATED INTO BMS FOR AUTO OFF SWEEPS
- PROVIDE TOUCHSCREEN FOR MANUAL OVERRIDE, SCENE SELECTION, AND ZONE CONTROL FOR STAGE. PROVIDE LOCKABLE, VANDAL RESISTANT ENCLOSURE FOR TOUCHSCREEN
- CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL WIRING. COORDINATE WITH VENDOR PRIOR TO ORDERING EQUIPMENT/MATERIALS.

LIBRARY/CAFETERIA
- PROVIDE WITH DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE KEYPADS
- NORMAL HOURS: LIGHTING SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK AND VIA LOCAL OVERRIDE KEYPAD.
- AFTER HOURS: LIGHTING SHALL BE AUTO-ON TO 50% VIA OCCUPANCY SENSOR, AUTO OFF AFTER 20 MINUTE OF INACTIVITY, AND ON/OFF VIA LOCAL OVERRIDE KEYPAD. AFTER HOUR OVERRIDE SHALL ENABLE FOR 1.5 HOURS; A WARNING FLASH SHALL OCCUR 5 MINUTES PRIOR TO TIME-OUT.
- PROVIDE KEYPADS ALLOWING FOR MANUAL OVERRIDE, SCENE SELECTION, AND ZONE CONTROLS. PROVIDE LOCKABLE, VANDAL RESISTANT ENCLOSURE FOR KEYPAD.

GYMNASIUM AND ASSOCIATED SPACES
- NORMAL HOURS: ALL LIGHTING SHALL TURN ON AT 6 AM AND OFF AT 5 PM VIA TIME OF DAY CONTROLS FROM LIGHTING CONTROL SYSTEM.
- AFTER HOURS: LIGHTING SHALL BE CONTROLLED ON/OFF VIA LOCAL OVERRIDE TOUCHSCREEN AND KEYPADS. AFTER HOURS OVERRIDE SHALL ENABLE FOR 1.5 HOURS; A WARNING FLASH SHALL OCCUR 5 MINUTES PRIOR TO TIME-OUT.
- PROVIDE TOUCHSCREEN FOR MANUAL OVERRIDE, SCENE SELECTION, AND ZONE CONTROL FOR GYM. PROVIDE LOCKABLE, VANDAL RESISTANT ENCLOSURE FOR TOUCHSCREEN.

STAIRS
- EGRESS STAIRWELL FIXTURES SHALL HAVE INTEGRAL OCCUPANCY SENSOR TO REDUCE POWER BY AT LEAST 50% WHEN UNOCCUPIED.
- EGRESS STAIRWELL FIXTURES TO BE UNSWITCHED
- STAIRWELL LIGHTING SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE AND INSTALL LIGHTING AT STAIRS TO MAINTAIN 10 FOOT-CANDLE MINIMUM AT EACH TREAD ON NORMAL POWER AND MAINTAIN 1 FOOT-CANDLE MINIMUM AT EACH TREAD ON EMERGENCY POWER.

EXTERIOR LIGHTING
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY AND POWERED FROM A LIGHTING CONTROL RELAY PANEL. LIGHTING CONTROL PANEL SHALL BE USED TO SWITCH EXTERIOR LIGHTING VIA LINE VOLTAGE RELAYS. LIGHTING CONTROL SYSTEM SHALL CONTROL FIXTURES VIA TIMECLOCK AND PHOTOCELL. CONTROLS SHALL BE A TORK EW SERIES 30A.
- SITE LIGHTING BEING USED FOR LIGHTING THE BUILDING FAÇADE OR LANDSCAPE FEATURES (IF ANY) SHALL AUTOMATICALLY SHUT OFF NO LATER THAN 1 HOUR AFTER CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE OPENING.
- EXTERIOR AREA AND PARKING LOT LIGHTING SHALL BE CONTROLLED TO UNIFORMLY REDUCE THE TOTAL EXTERIOR LIGHTING WATTAGE BY AT LEAST 50% BETWEEN MIDNIGHT AND 6AM.
- EXTERIOR WALLPACK LIGHTING SHALL BE CONTROLLED VIA NEW 0-10V DIMMING TO UNIFORMLY REDUCE THE TOTAL EXTERIOR LIGHTING WATTAGE BY AT LEAST 50% BETWEEN MIDNIGHT AND 6AM.

LIGHTING GENERAL NOTES:

A. MOUNT LIGHT SWITCHES AS INDICATED ON ARCHITECTURAL DRAWINGS (48" AFF UNLESS NOTED OTHERWISE).
B. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANG BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANG BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
C. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF ALL LIGHTS TO BE CONTROLLED BY THE DIMMER.
D. WHERE FIXTURES ARE SHOWN TO BE DIMMED, THE DIMMERS SHALL HAVE THE DIMMING TYPE MATCHING THAT OF THE SPECIFIED FIXTURES.
E. ALL EMERGENCY LIGHT FIXTURES SHALL BE FED FROM INDIVIDUAL BATTERY.
F. ALL EXIT SIGNS SHALL BE FED FROM INDIVIDUAL BATTERY.
G. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE FIXTURE INFORMATION, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE.
H. ALL EXIT SIGNS SHALL BE SELF TESTING. ALL EMERGENCY LIGHTING WITH INDIVIDUAL BATTERIES SHALL BE SELF TESTING.
I. ALL LIGHT FIXTURES SHALL HAVE SEPARATE GROUNDING CONDUCTORS. INTEGRAL GROUNDING IN LUMINAIRE IS NOT ACCEPTABLE.
J. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
K. FINAL MOUNTING LOCATION OF OCCUPANCY SENSORS WILL BE PROVIDED BY EQUIPMENT MANUFACTURER. DEVICES SHOWN ON PLAN ARE FOR REFERENCE AND DO NOT NECESSARILY INDICATE EXACT MOUNTING LOCATION OR AMOUNT.
L. ALL LIGHTING CIRCUITS NOT CONTROLLED BY OCCUPANCY SENSOR NOR EXCLUDED PER 2021 IECC SHALL BE CONTROLLED BY A NEW TIMECLOCK ADJACENT TO THE LIGHTING PANELBOARD. THIS AUTOMATIC SHUTOFF SHALL MEET ALL REQUIREMENTS OF THE IECC ENERGY CODE. REFER TO TIMECLOCK WIRING DIAGRAM FOR ADDITIONAL INFORMATION, MAKE AND MODEL NUMBER.

SCOPE OF WORK NARRATIVE:

The DISD Scope To Budget (STB) had MEP systems or component discrepancies from our field visit, so the following STB items are NOT included in narrative below:

1. “Replace partial secondary switchboard”: PMI observed the 800 amp service entrance enclosure and what appears to be the 800 amp main switchboard as being old and noted to be replaced in narrative below. These construction drawings have not noted any other electrical distribution downstream of this equipment to be replaced since those are not considered “switchboards”. There is a wide variety of panelboards and transformer ages, and conditions are unknown.

Electrical

1. Replacement of Existing Electrical Secondary Switchgear and Distribution:
   a. The existing pad mounted Oncor transformer serves an adjacent existing NEMA 3R 1200-amp Switchboard MSB with a 400-amp service entrance rated fused switch labeled DP and an 800-amp service entrance rated fused switch labeled MD.
   b. Provide new NEMA 3R 1200-amp Switchboard to be labeled MSB with new 400-amp service entrance rated circuit breaker to be labeled DP and new 800-amp service entrance rated circuit breaker to be labeled MD. Switchboard and circuit breakers shall be rated for 100,000 AIC. Replace service entrance conductors from Oncor transformer to new MSB with new copper conductors.
   c. In interior courtyard adjacent to boiler room, in an electrical room opening to courtyard, there is 800-amp MLO Distribution Board MD with 4 circuit breakers serving MCA, DPA, Chiller and DPN. Replace this distribution board with new 800-amp MCB Distribution Board with 8 circuit breakers to match existing ampacity (circuit breaker ampacities unknown). Replace conductors from MSB to MD with new copper conductors.
   d. Adjacent to MD is 400-amp DPN. Replace this panel board with new same size as well as circuit breakers within it (circuit breaker ampacities are unknown). Replace conductors from MD to DPN with new copper conductors.
   e. In boiler room is 400-amp DPA. Replace this panel board with new same size as well as circuit breakers within it (circuit breakers ampacities are unknown). Replace conductors from MD to DPA with new copper conductors.
   f. DPA in boiler room serves a 225 KVA transformer in boiler room and then feeds an 800 amp MCB Distribution board MDP also in boiler room.
   g. Transformer shall be replaced with same size (225 KVA). MDP condition is satisfactory and shall not be replaced. Replace primary conductors from new DPA to new transformer. Existing secondary conductors from transformer to existing MDP shall be reconnected to new transformer.
   h. DPA in boiler room also serves an overhead 45 KVA transformer. This transformer shall be replaced with same size. Replace primary conductors from new DPA to this new transformer.
   i. In interior courtyard adjacent to boiler room, there is NEMA 3R 400-amp MLO Distribution Board DP (served from MSB) serving NEMA 3R Panelboard AC and a NEMA 3R 112.5 KVA transformer which serves NEMA 3R Panelboard P. All this equipment’s condition is satisfactory except the 112.5 KVA transformer. Therefore the 112.5 KVA transformer shall be replaced with same size and be NEMA 3R. Reconnect primary and secondary conductors to new transformer.
2. For all mechanical equipment being replaced, as well as new mechanical equipment, there shall be new properly sized feeder conductors and properly sized over current protection installed. Where mechanical equipment is being replaced, existing feeder conductors shall be removed back to the corresponding panel or switchboard. Installation shall include wireways, conduits, and junction boxes for low voltage controls and monitors.
3. All conductors shall be copper.
4. For new switchboard and panelboards, all bussing shall be plated copper.
5. All wiring devices shall be commercial grade with proper markings for special devices (GFCI, isolated ground, etc.)
6. Provide new LED lighting in all interior areas and comply with 2021 IECC required lighting controls.
7. New LED based area lighting to be installed in the parking areas and around the building perimeter. Lighting to include pole mounted fixtures as well as updating all exterior “wall pack” type fixtures. Lighting controls for outdoor lighting shall be capable of both astronomical and clock scheduling and shall be integrated into the BMS and be capable of offsite monitoring and control. Cost to include (8) new pole lights and (10) new building mounted lights. It is assumed the circuiting can be reused, but new controls.
8. Provide new dedicated 20A, 120V circuit for power for new marquee sign. Provide separate spare conduit for data to the marquee sign as well.
9. One (1) lighting relay panel shall be in each electrical room. Relay panel shall have a BMS integration connection and an internal time clock. Lighting controls shall be capable of dimming as well as on-off control.
10. Daylight harvesting will be provided for all fixtures within the ceiling height distance of windows. Lights shall be capable of dimming to 10% of full light output.
11. All egress lighting and exit signs shall have integral battery backup.
12. Provide wireways, conduit, junction boxes, backboxes, and supports for low voltage, communications, security, and data systems.
13. If roof is to be replaced, raise conduits and wireways installed on or routed across the roof during roof replacement. At the completion of the roof replacement, provide new supports for roof mounted raceways and conduits. Supports shall be chosen to provide adequate support for 200% of the supported weight. Supports shall also be chosen so that they do not violate or shorten the roof warranty.
14. Provide electrical “make-safe” work prior to any demolition work. Provide scope for electrical demolition of existing building systems removed for any demolition work.
15. Provide line-item pricing or dedicated allowance to add new street lighting to be installed along the public streets that border the school property. It is unclear in the scope currently if the city will provide the street lighting to be updated or not at this point. The lighting shall be designed to meet the City of Dallas street lighting requirements as well as the those of the local electric utility for powering the street lighting fixtures. Streetlights will be powered from separate utility power source and not on school electrical utility.

REPLACE EXISTING SITE LIGHTING CONTROLS:

EXISTING SITE LIGHTING CONTROL SYSTEM IS TO BE REPLACED WITH NEW LIGHTING CONTROLS. REFER TO LIGHTING CONTROL NARRATIVE ON THIS SHEET FOR SPECIFIC REQUIREMENTS.

KEY PLAN

#	DATE	CHANGE DESCRIPTION

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PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS INDEPENDENT SCHOOL DISTRICT
HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
ELECTRICAL NOTES & SYMBOLS

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

R22301.01

E002

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SITE LIGHTING GENERAL NOTES:

- NEW LIGHTING CIRCUITING: REUSE THE EXISTING NORMAL LIGHTING CIRCUIT FOR ALL NEW NORMAL LIGHTING. REUSE THE EXISTING EMERGENCY LIGHTING CIRCUIT FOR ALL NEW EMERGENCY "EM" LIGHTING. REFER TO LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR ADDITIONAL INFORMATION. ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE MOST REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXISTING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT'S VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING POWERING CIRCUITING SERVING EXISTING LIGHTS SINCE THIS SCOPE OF WORK IS DECREASING THE WATTAGE BY GOING FROM FLUORESCENT TO LED. FULLY DEMOLISH ALL EXISTING LIGHTING CIRCUIT BACK TO WHERE IT ENTERS THE ROOM. MODIFY THE EXISTING POWER CIRCUITING AS NECESSARY FOR NEW CONTROLS. PROVIDE ALL NEW CONDUCTORS AND CONDUIT WITHIN THE ROOM. THE EXISTING POWER CIRCUITS CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES. IF THERE IS NOT AVAILABLE POWER OR THE EXISTING POWER CIRCUIT VOLTAGE DOES NOT MATCH, PROVIDE AND INSTALL NEW 277V, 20A LIGHTING POWER CIRCUITS.
- FOR ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS. CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT.
- ALL OF THE 2X4 TROFFERS, PARKING LOT LIGHTS, DOWNLIGHTS, 48" STRIP LIGHTS, AND HI-BAY LIGHTING ARE TO BE REPLACED THROUGHOUT THE ENTIRE SCOPE. ALL LIGHTING SHALL MATCH EXISTING LIGHT FIXTURE'S VOLTAGE TO ALLOW THE REUSE OF EXISTING LIGHT FIXTURE CIRCUIT.
- ALL OF THE LIGHTING CONTROLS ON THE EXTERIOR AND INTERIOR OF THE SCHOOL ARE TO BE REPLACED. REFER TO THE LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT, INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
  a. TECHNOLOGY PANELBOARDS SHALL ONLY BE USED FOR TECHNOLOGY SYSTEMS. THESE PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.
- LIGHT POLES AND HEADS ARE NOT SHOWN TO SCALE AND ARE DIAGRAMMATIC IN NATURE
- EXISTING PARKING LOT POWER CIRCUITING AND TIMECLOCK IS SERVED FROM THE BOILER ROOM

KEYED NOTES - SHEET E101

1 APPROXIMATE LOCATION OF NEW SCHOOL SIGN. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE 2" CONDUIT AND TWO 1" CONDUITS TO THIS LOCATION. THE 2" CONDUIT SHALL BE ROUTED TO NEAREST IDF ROOM FOR DATA AND THE TWO 1" CONDUITS SHALL BE ROUTED TO NEAREST PANEL FOR POWER CIRCUIT. ASSUME ONE 120V, 20A POWER CIRCUIT AND ONE 277V, 20A POWER CIRCUIT. CONTRACTOR SHALL CONFIRM EXACT POWER REQUIREMENTS, VOLTAGE, WATTAGE, NEMA PLUG CONFIRMATION OR HARDWIRED CONNECTION, ETC WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN. POWER SHOWN HERE IS FOR PLACEHOLDER ONLY.

2 NEW LIGHTING CIRCUITING: REUSE THE EXISTING NORMAL LIGHTING CIRCUIT FOR ALL NEW NORMAL LIGHTING. REFER TO LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR ADDITIONAL REQUIREMENTS. ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE REUSE OF EXISTING LIGHT FIXTURE POWER CIRCUITS. IT IS ASSUMED THAT MOST OF THE EXISTING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING POWER CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES.

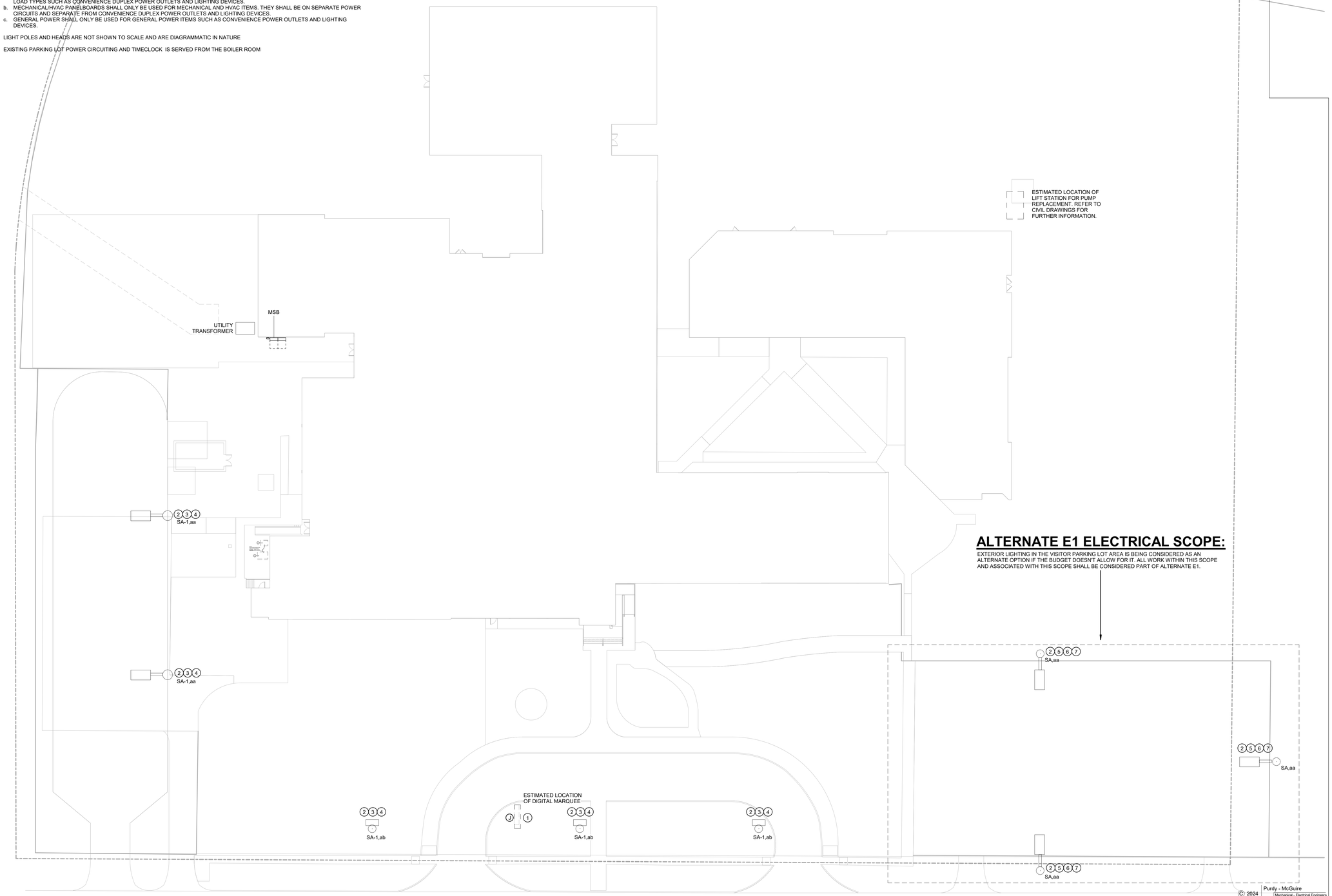
3 REUSE THE LIGHTING CONTROLS CONDUIT WHERE POSSIBLE. IF LIGHTING CONTROL CONDUIT IS NOT PRESENT, OR IN GOOD CONDITION, AT EACH LIGHT FIXTURE, PROVIDE AND INSTALL A MINIMUM 1" CONDUIT FOR LIGHTING CONTROLS BETWEEN THE LIGHT FIXTURES AND THE CLOSEST LIGHTING CONTROL RELAY PANEL. THE CONTRACTOR SHALL FIELD VERIFY THE CLOSEST LOCATION OF THE LIGHTING CONTROL PANEL AND WHAT CAPACITY IS AVAILABLE.

4 EXISTING LIGHT POLE. THE LIGHT POLE IS EXISTING TO REMAIN AND THE LIGHT FIXTURE IS EXISTING TO BE REPLACED.

5 THIS IS A NEW LIGHT FIXTURE AND NEW LIGHT POLE. EXTEND THE SITE LIGHTING POWER CIRCUIT CONDUIT AND CONDUCTORS TO SERVE THESE NEW FIXTURES. CONDUIT SERVING THE LIGHT FIXTURES SHALL BE A MINIMUM 1" CONDUIT.

6 PROVIDE 1" CONDUIT FOR LIGHTING CONTROLS TO NEW LIGHT FIXTURES AND EXTEND THE LIGHTING CONTROLS FROM THE EXISTING LIGHT POLES TO THIS NEW LOCATION. THE LIGHTING CONTROLS SHALL BE BETWEEN THE LIGHT FIXTURES AND THE CLOSEST LIGHTING CONTROL RELAY PANEL. THE CONTRACTOR SHALL FIELD VERIFY THE CLOSEST LOCATION OF THE LIGHTING CONTROL PANEL AND WHAT CAPACITY IS AVAILABLE.

7 ALL CONDUIT ROUTINGS TO LIGHT POLE SHALL BE TRENCHED AROUND THE PARKING LOT AND NOT THROUGH THE PARKING LOT.

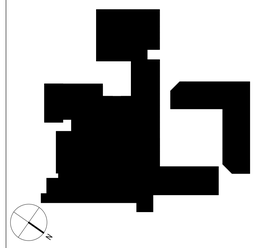


ALTERNATE E1 ELECTRICAL SCOPE:

EXTERIOR LIGHTING IN THE VISITOR PARKING LOT AREA IS BEING CONSIDERED AS AN ALTERNATE OPTION IF THE BUDGET DOESN'T ALLOW FOR IT. ALL WORK WITHIN THIS SCOPE AND ASSOCIATED WITH THIS SCOPE SHALL BE CONSIDERED PART OF ALTERNATE E1.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

KEY PLAN



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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL SITE PLAN

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
E101
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/1/2025 2:44:31 PM
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POWER GENERAL NOTES:

- REFER TO THE ELECTRICAL FRONT SHEET E001 FOR ADDITIONAL APPLICABLE GENERAL NOTES.
- REFER TO ARCHITECTURAL PLANS FOR RECEPTACLE HEIGHTS AND COORDINATE HEIGHTS OF RECEPTACLES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CIRCUITS SHOWN SHALL BE 120V, 20A POWER CIRCUITS, UNLESS OTHERWISE NOTED. EXISTING 120V, 20A CIRCUITS THAT PREVIOUSLY SERVED DEMOLISHED AREAS OF THE FLOOR SHALL BE RE-USED TO SERVE REVISED SPACES. CIRCUIT NUMBERS ARE INTENDED TO REPRESENT QUANTITIES OF CIRCUITS AND DO NOT ALIGN WITH PANELBOARD CIRCUIT BREAKER NUMBERS.
- LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, INSTALLATION HEIGHTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS..
- CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT. IF THE FEEDERS AND CONDUITS ARE IN GOOD CONDITION AND ARE APPROPRIATELY SIZED PER THE NEC, THE ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS.
- NEW MECHANICAL EQUIPMENT POWER SHALL RECEIVE NEW ELECTRICAL FEEDERS AND CONDUIT. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO THE POWER SOURCE. REFER TO THE LARGE NOTE ON SHEET E201 FOR ADDITION CLARIFICATION ON MECHANICAL POWER CONCERNS WITH EXISTING CONDITIONS.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
  a. TECHNOLOGY PANELBOARDS SHALL ONLY BE USED FOR TECHNOLOGY SYSTEMS. THESE PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.

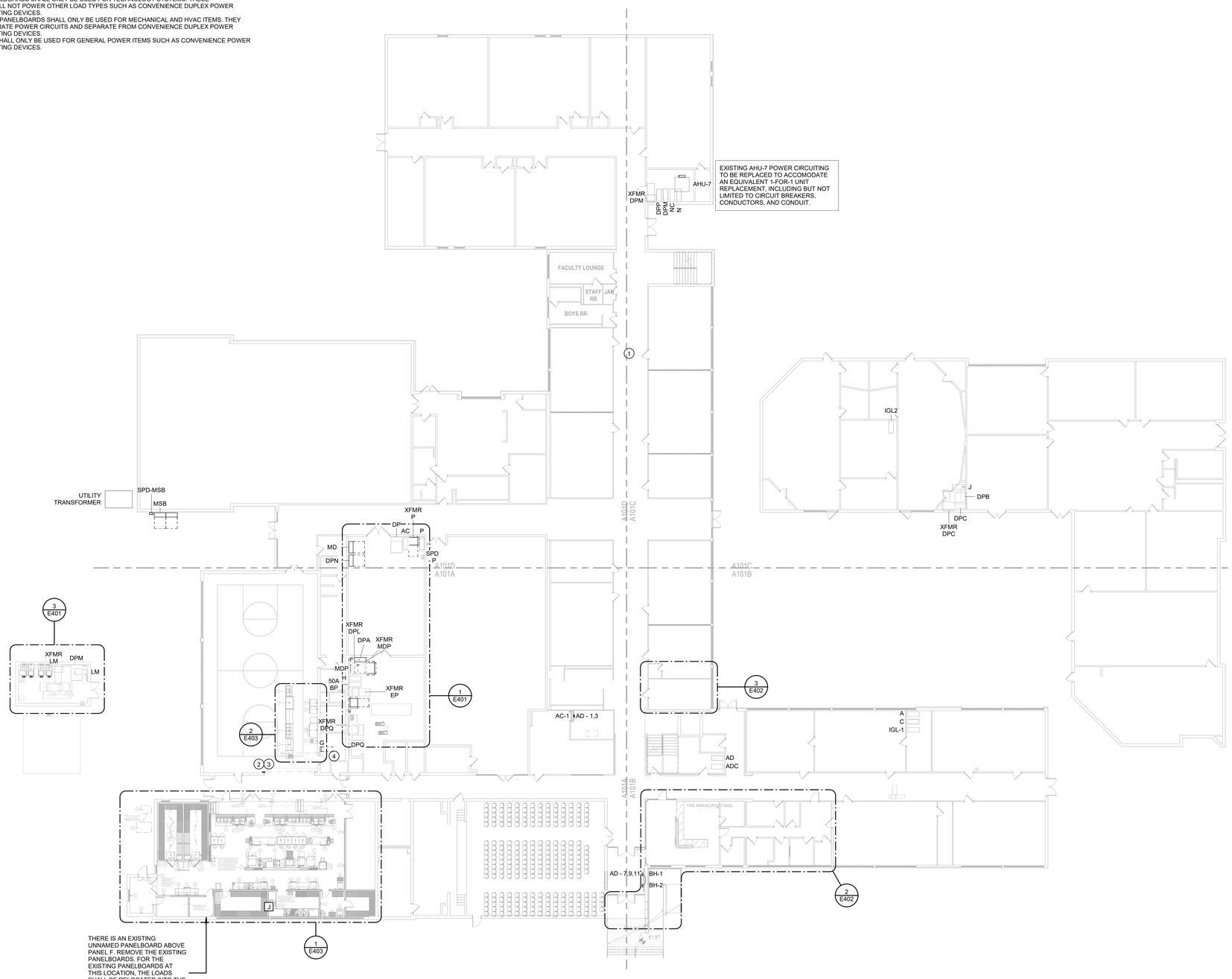
KEYED NOTES - SHEET E201

1 REFER TO MECH SHEET M601 FOR MORE INFO REGARDING NEW AND EXISTING MECH CONNECTIONS.

2 INTEGRATE FIRE SHUTTER INTO THE FIRE ALARM SYSTEM.

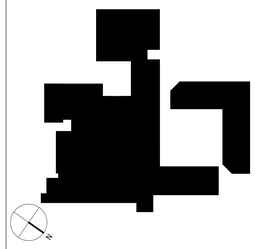
3 PROVIDE AND INSTALL (1) NEW 120V, 30A POWER CIRCUIT FROM THE CLOSEST 120/208V PANELBOARD WITH AVAILABLE CAPACITY TO SERVE THE COILING FIRE DOORS IN THESE LOCATIONS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE CLOSEST PANELBOARD SERVING THE GYMNASIUMS 120V LOADS. ASSUME THIS PANEL IS IN THE MECH/BOILER ROOM D-010 FOR PRICING.

4 PMI WAS UNABLE TO FIELD SURVEY PANELBOARD G SERVING THE GYM. EXISTING DRAWINGS SHOW THIS PANELBOARD TO BE A 200A MLO, 120/208V PANELBOARD WITH 30 POLES. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS OF THIS PANELBOARD TO DETERMINE IF THIS PANELBOARD HAS AVAILABLE CAPACITY FOR THE TEMPORARY SERVERY. IF THIS PANELBOARD DOES NOT HAVE AVAILABLE CIRCUIT BREAKER SPACE, BUT IT HAS AVAILABLE LOAD CAPACITY, THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 120/208V, 200A MCB PANELBOARD WITH 60 POLES. PANEL SCHEDULE ON SHEET E502 SHOWS THE NEW CONDITION BASED ON THE EXISTING DRAWINGS.



1 OVERALL LEVEL 01 - QUADRANT ELECTRICAL PLANS
1/16" = 1'-0"

KEY PLAN



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DALLAS INDEPENDENT SCHOOL DISTRICT — RAGSY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

OVERALL LEVEL 01 - ELECTRICAL PLAN

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PROJECT MGR. C. PRICE/B. JARRETT
MECHANICAL C. RICCOTY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAKULINSKI

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STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025
R22301.01

E201

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KEYED NOTES - SHEET E202

1 REFER TO MECH SHEET M601 FOR MORE INFO REGARDING NEW AND EXISTING MECH CONNECTIONS.

2 EXISTING CONDITIONS OF RTU-6 COULD NOT BE DETERMINED FROM EXISTING DRAWINGS OR SITE CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE EXISTING ELECTRICAL CONDITIONS AND DETERMINE WHERE RTU-6 IS SERVED FROM. DISCONNECT THE EXISTING RTU-6 AND RECONNECT THE NEW RTU-6. ESTIMATED LOCATION OF POWER CIRCUIT IS THE FAR END OF THE CHILLER YARD D-013.

3 EXISTING CONDITIONS OF RTU-4 & RTU-5 COULD NOT BE DETERMINED FROM EXISTING DRAWINGS OR SITE CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE EXISTING ELECTRICAL CONDITIONS AND DETERMINE WHERE RTU-4 & RTU-5 ARE SERVED FROM. DISCONNECT THE EXISTING RTU-4 & RTU-5 AND RECONNECT THE NEW RTU-4 & RTU-5. REFER TO THE MECHANICAL POWER SCHEDULE FOR MORE ELECTRICAL REQUIREMENTS. ESTIMATED LOCATION OF POWER CIRCUIT IS THE PLAN SOUTH END OF THE MECH/BOILER ROOM D-010.

4 EXISTING CONDITIONS OF EF-A COULD NOT BE DETERMINED FROM EXISTING DRAWINGS OR SITE CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE EXISTING ELECTRICAL CONDITIONS AND DETERMINE WHERE EF-A IS SERVED FROM. DISCONNECT THE EXISTING EF-A AND RECONNECT THE NEW EF-A. REFER TO THE MECHANICAL POWER SCHEDULE FOR MORE ELECTRICAL REQUIREMENTS.

5 EXISTING CONDITIONS OF RTU-7 COULD NOT BE DETERMINED FROM EXISTING DRAWINGS OR SITE CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY THE EXISTING ELECTRICAL CONDITIONS AND DETERMINE WHERE RTU-7 IS SERVED FROM. DISCONNECT THE EXISTING RTU-7 AND RECONNECT THE NEW DOAS-1. REFER TO THE MECHANICAL POWER SCHEDULE FOR MORE ELECTRICAL REQUIREMENTS. ESTIMATED LOCATION OF POWER CIRCUIT IS THE PLAN NORTH END OF THE CHILLER YARD D-013.

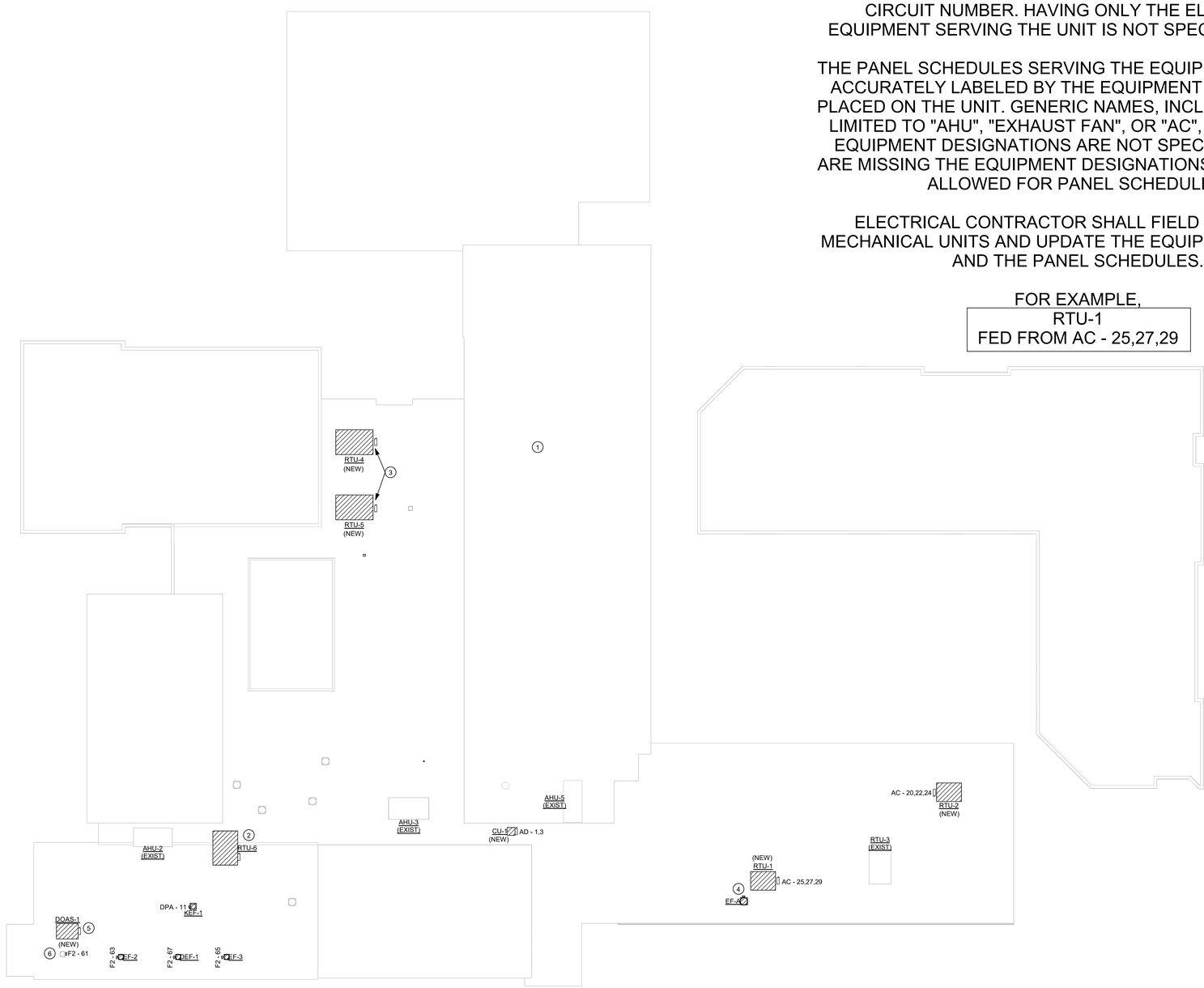
6 EXISTING LOCATION OF TOILET EXHAUST FAN, TEF-K. DISCONNECT THE EXISTING TOILET EXHAUST FAN AND RECONNECT EXHAUST FAN TO THE NEW PANELBOARD P2.

ALL NEW AND EXISTING MECHANICAL EQUIPMENT SHALL HAVE PERMANENT SIGNAGE WITH THE EQUIPMENT DESIGNATION AND THE POWER CIRCUIT SERVING THE EQUIPMENT. THE POWER CIRCUIT LABEL SHALL INCLUDE THE NAME OF THE ELECTRICAL EQUIPMENT AND THE CIRCUIT NUMBER. HAVING ONLY THE ELECTRICAL EQUIPMENT SERVING THE UNIT IS NOT SPECIFIC ENOUGH.

THE PANEL SCHEDULES SERVING THE EQUIPMENT SHALL BE ACCURATELY LABELED BY THE EQUIPMENT DESIGNATION PLACED ON THE UNIT. GENERIC NAMES, INCLUDING BUT NOT LIMITED TO "AHU", "EXHAUST FAN", OR "AC", WITHOUT ANY EQUIPMENT DESIGNATIONS ARE NOT SPECIFIC ENOUGH, ARE MISSING THE EQUIPMENT DESIGNATIONS, AND ARE NOT ALLOWED FOR PANEL SCHEDULES.

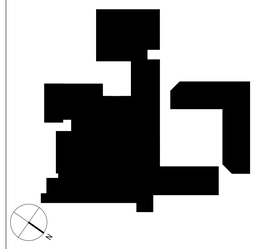
ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL UNITS AND UPDATE THE EQUIPMENT SIGNAGE AND THE PANEL SCHEDULES.

FOR EXAMPLE,
RTU-1
FED FROM AC - 25,27,29



1 ROOF LEVEL - QUADRANT ELECTRICAL PLANS
1/16" = 1'-0"

KEY PLAN



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DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
ROOF LEVEL - QUADRANT ELECTRICAL PLAN

12.02.2025
R22301.01
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PROJ. ENGR. C. RIGGY, B.JARRETT
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LIGHTING GENERAL NOTES:

- NEW LIGHTING CIRCUITING: REUSE THE EXISTING NORMAL LIGHTING CIRCUIT FOR ALL NEW NORMAL LIGHTING. REUSE THE EXISTING EMERGENCY LIGHTING CIRCUIT FOR ALL NEW EMERGENCY "EM" LIGHTING. REFER TO LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR ADDITIONAL ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE MOST REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXITING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING CIRCUIT SERVING EXISTING LIGHTS SINCE THE SCOPE IS DECREASING THE WATTAGE. FULLY DEMOLISH ALL EXISTING LIGHTING CIRCUIT BACK TO WHERE IT ENTERS THE ROOM. MODIFY THE EXISTING CIRCUIT AS NECESSARY FOR NEW CONTROLS. PROVIDE ALL NEW CONDUCTORS AND CONDUIT WITHIN THE ROOM. THE EXISTING CIRCUIT CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES.
- EGRESS LIGHTING AND EXIT SIGNS SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE EGRESS LIGHTING TO MAINTAIN 1 FOOT-CANDLE AVERAGE AND 0.1 FOOT-CANDLE MINIMUM ILLUMINATION IN EGRESS PATH.
- STAIRWELL LIGHTING SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE LIGHTING AT STAIRS TO MAINTAIN 10 FOOT-CANDLE MINIMUM AT EACH TREAD IN NORMAL CONDITIONS AND MATCH THE PREVIOUSLY NOTED EMERGENCY CONDITION REQUIREMENTS. UNDER NORMAL CONDITIONS, STAIR FIXTURE SHALL DIM TO 50% WHEN UNOCCUPIED FOR 30 MINUTES OR MORE.
- IN BOTH NORMAL POWER AND EMERGENCY POWER CONDITIONS, ELEVATOR LOBBIES SHALL HAVE 15 FOOT-CANDLES MINIMUM AT THRESHOLD OF EACH ELEVATOR.
- FOR ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS. CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT.
- ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXISTING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING CIRCUIT SERVING EXISTING LIGHTS SINCE WE ARE DECREASING THE WATTAGE BY GOING FROM FLUORESCENT TO LED. THE EXISTING CIRCUITING CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES. MODIFY THE EXISTING CIRCUITING AS NECESSARY FOR NEW CONTROLS. IF THERE IS NOT AVAILABLE POWER, PROVIDE AND INSTALL NEW 277V, 20A LIGHTING POWER CIRCUITS.
- ALL OF THE LIGHTING CONTROLS ON THE EXTERIOR AND INTERIOR OF THE SCHOOL ARE TO BE REPLACED. REFER TO THE LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT, INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE.
- EMERGENCY LIGHTING NOTE (BUGEYES): UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING (NOTED AS EM) TO THE CLOSEST LIGHTING CONTROL PANEL. EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN THE SAME SPACE/CONTROL ZONE.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
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  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.
- REFER TO THE SYMBOLS LEGEND ON THE ELECTRICAL FRONT SHEET. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY SENSORS.

LIGHTING SCOPE NOTES:

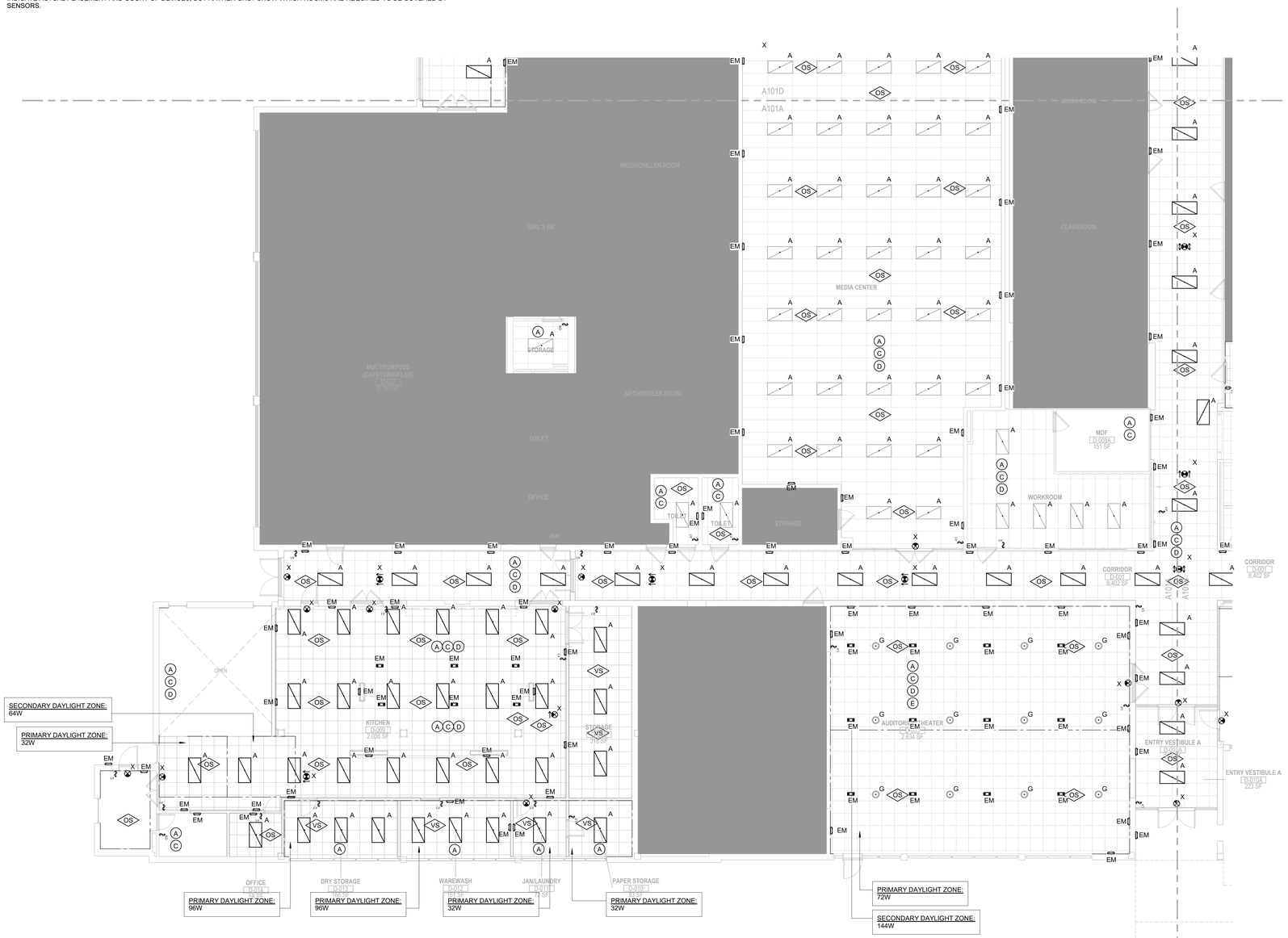
A. PROVIDE AND INSTALL LIGHTING SWITCHES TO MATCH AS DESCRIBED IN THE LIGHTING CONTROLS NARRATIVE ON SHEET E002. CURRENT LOCATIONS OF THE LIGHT SWITCHES DO NOT COMPLY WITH ADA. ENSURE PRICING INCLUDES RELOCATING THE POSITION OF THE LIGHTING CONTROLS TO COMPLY WITH ADA AND ARCHITECTURAL MOUNTING HEIGHTS. SURFACE MOUNTED CONDUITS SHALL NOT BE ACCEPTABLE. ALL CONDUITS AND LIGHTING CONTROL BACK BOXES SHALL BE CONCEALED AND RECESSED/FLUSH WITHIN WALLS, EVEN IF THE EXISTING WALL IS CMU. WHERE APPLICABLE, ENSURE PRICING INCLUDES CORING OUT EXISTING CMU OR CONCRETE WALLS, CONCEALING ALL NEW CONDUITS WITHIN THE WALLS, AND RECESSED/FLUSH LIGHT CONTROLS BACKBOXES AS NEEDED.

B. REFER TO 1/E402 FOR AN EXAMPLE LAYOUT OF A TYPICAL CLASSROOM LIGHTING AND CONTROLS LAYOUT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT COUNT OF ALL LIGHT FIXTURES FOR DEMO AND REPLACEMENT.

C. ALL CONDUITS TO THE WALL PACKS SHALL BE CONCEALED IN THE WALLS (THIS INCLUDES SOME CMU WALL LOCATIONS). NO EXPOSED CONDUIT ALLOWED. THE BUG-EYES SHALL BE SELF TESTING, SHALL BE NORMALLY OFF UNTIL THE LOSS OF NORMAL POWER, AND CONTROLLED SEPARATELY FROM THE NORMAL LIGHTING.

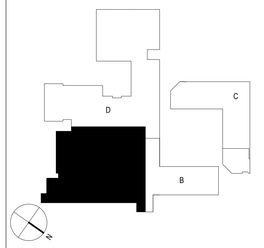
D. PROVIDE AND INSTALL INDIVIDUAL BATTERY LED EXIT SIGN WITHIN THE PATH OF EGRESS SUCH THAT ANY LOCATION WITHIN THE PATH OF EGRESS HAS TWO EXIT SIGNS WITHIN SIGHT.

E. ASSUMING EACH ROOM HAS A PRIMARY AND SECONDARY DAYLIGHT ZONE, AND THE COMBINED LIGHTING BETWEEN THE ZONES MEETS 300W. LIGHTING WITHIN DAYLIGHT ZONE SHALL BE CONTROLLED INDEPENDENTLY OF SURROUNDING GENERAL LIGHTING. PROVIDE AUTOMATIC DAYLIGHT HARVESTING WITHIN THE DAYLIGHT ZONE IN WHICH LIGHTING IN AUTOMATICALLY DIMMED TO A CAPABILITY OF 15% IN RESPONSE TO SUNLIGHT LEVELS WITHIN THE AREA AS SENSED BY THE PHOTOCELL WITHIN THE DAYLIGHT ZONE.



1 LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'A'
1/8" = 1'-0"

KEY PLAN



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Moody Nolan

DRAWING TITLE:
LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'A'

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PM/ JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	E. PEOTTE
PLUMBING	M. MITCHELL
ELECTRICAL	C.ZAMUDINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
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LIGHTING GENERAL NOTES:

- NEW LIGHTING CIRCUITING: REUSE THE EXISTING NORMAL LIGHTING CIRCUIT FOR ALL NEW NORMAL LIGHTING. REUSE THE EXISTING EMERGENCY LIGHTING CIRCUIT FOR ALL NEW EMERGENCY "EM" LIGHTING. REFER TO LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR ADDITIONAL ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE MOST REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXITING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING CIRCUIT SERVING EXISTING LIGHTS SINCE THE SCOPE IS DECREASING THE WATTAGE. FULLY DEMOLISH ALL EXISTING LIGHTING CIRCUIT BACK TO WHERE IT ENTERS THE ROOM. MODIFY THE EXISTING CIRCUIT AS NECESSARY FOR NEW CONTROLS. PROVIDE ALL NEW CONDUCTORS AND CONDUIT WITHIN THE ROOM. THE EXISTING CIRCUIT CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES.
- EGRESS LIGHTING AND EXIT SIGNS SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE EGRESS LIGHTING TO MAINTAIN 1 FOOT-CANDLE AVERAGE AND 0.1 FOOT-CANDLE MINIMUM ILLUMINATION IN EGRESS PATH.
- STAIRWELL LIGHTING SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE LIGHTING AT STAIRS TO MAINTAIN 10 FOOT-CANDLE MINIMUM AT EACH TREAD IN NORMAL CONDITIONS AND MATCH THE PREVIOUSLY NOTED EMERGENCY CONDITION REQUIREMENTS. UNDER NORMAL CONDITIONS, STAIR FIXTURE SHALL DIM TO 50% WHEN UNOCCUPIED FOR 30 MINUTES OR MORE.
- IN BOTH NORMAL POWER AND EMERGENCY POWER CONDITIONS, ELEVATOR LOBBIES SHALL HAVE 15 FOOT-CANDLES MINIMUM AT THRESHOLD OF EACH ELEVATOR.
- FOR ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS. CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT.
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- ALL OF THE LIGHTING CONTROLS ON THE EXTERIOR AND INTERIOR OF THE SCHOOL ARE TO BE REPLACED. REFER TO THE LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT, INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE.
- EMERGENCY LIGHTING NOTE (BUGEYES): UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING (NOTED AS EM) TO THE CLOSEST LIGHTING CONTROL PANEL. EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN THE SAME SPACE/CONTROL ZONE.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
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  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
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- REFER TO THE SYMBOLS LEGEND ON THE ELECTRICAL FRONT SHEET. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY SENSORS.

LIGHTING SCOPE NOTES:

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B. REFER TO 1/E402 FOR AN EXAMPLE LAYOUT OF A TYPICAL CLASSROOM LIGHTING AND CONTROLS LAYOUT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT COUNT OF ALL LIGHT FIXTURES FOR DEMO AND REPLACEMENT.

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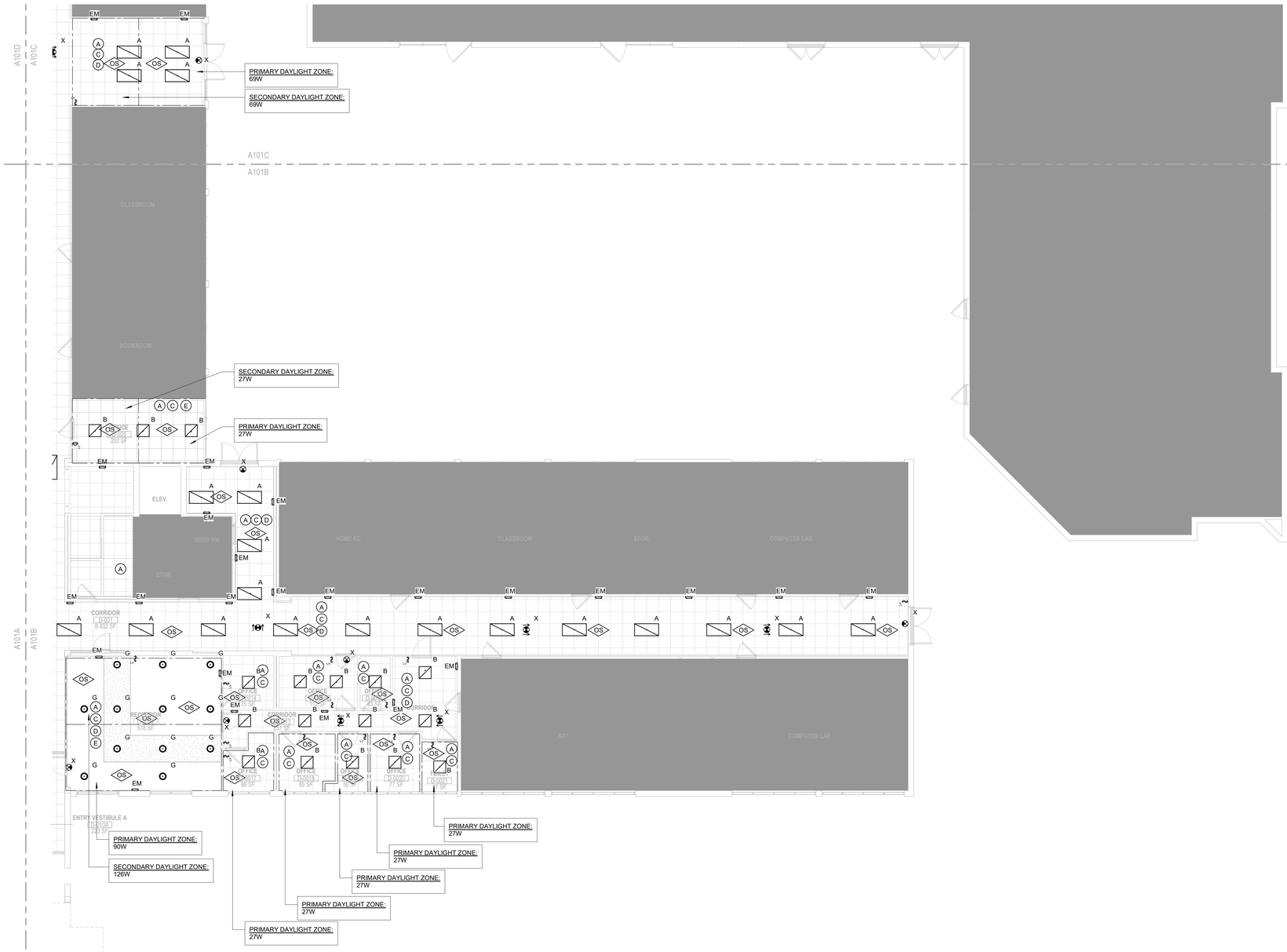
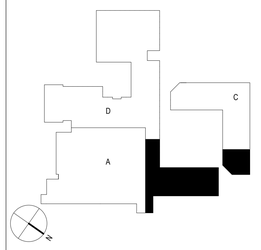
D. PROVIDE AND INSTALL INDIVIDUAL BATTERY LED EXIT SIGN WITHIN THE PATH OF EGRESS SUCH THAT ANY LOCATION WITHIN THE PATH OF EGRESS HAS TWO EXIT SIGNS WITHIN SIGHT.

E. ASSUMING EACH ROOM HAS A PRIMARY AND SECONDARY DAYLIGHT ZONE, AND THE COMBINED LIGHTING BETWEEN THE ZONES MEETS 300W. LIGHTING WITHIN DAYLIGHT ZONE SHALL BE CONTROLLED INDEPENDENTLY OF SURROUNDING GENERAL LIGHTING. PROVIDE AUTOMATIC DAYLIGHT HARVESTING WITHIN THE DAYLIGHT ZONE IN WHICH LIGHTING IN AUTOMATICALLY DIMMED TO A CAPABILITY OF 15% IN RESPONSE TO SUNLIGHT LEVELS WITHIN THE AREA AS SENSED BY THE PHOTOCELL WITHIN THE DAYLIGHT ZONE.



1 LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'B'
1/8" = 1'-0"

KEY PLAN



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DALLAS INDEPENDENT SCHOOL DISTRICT — RANDY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
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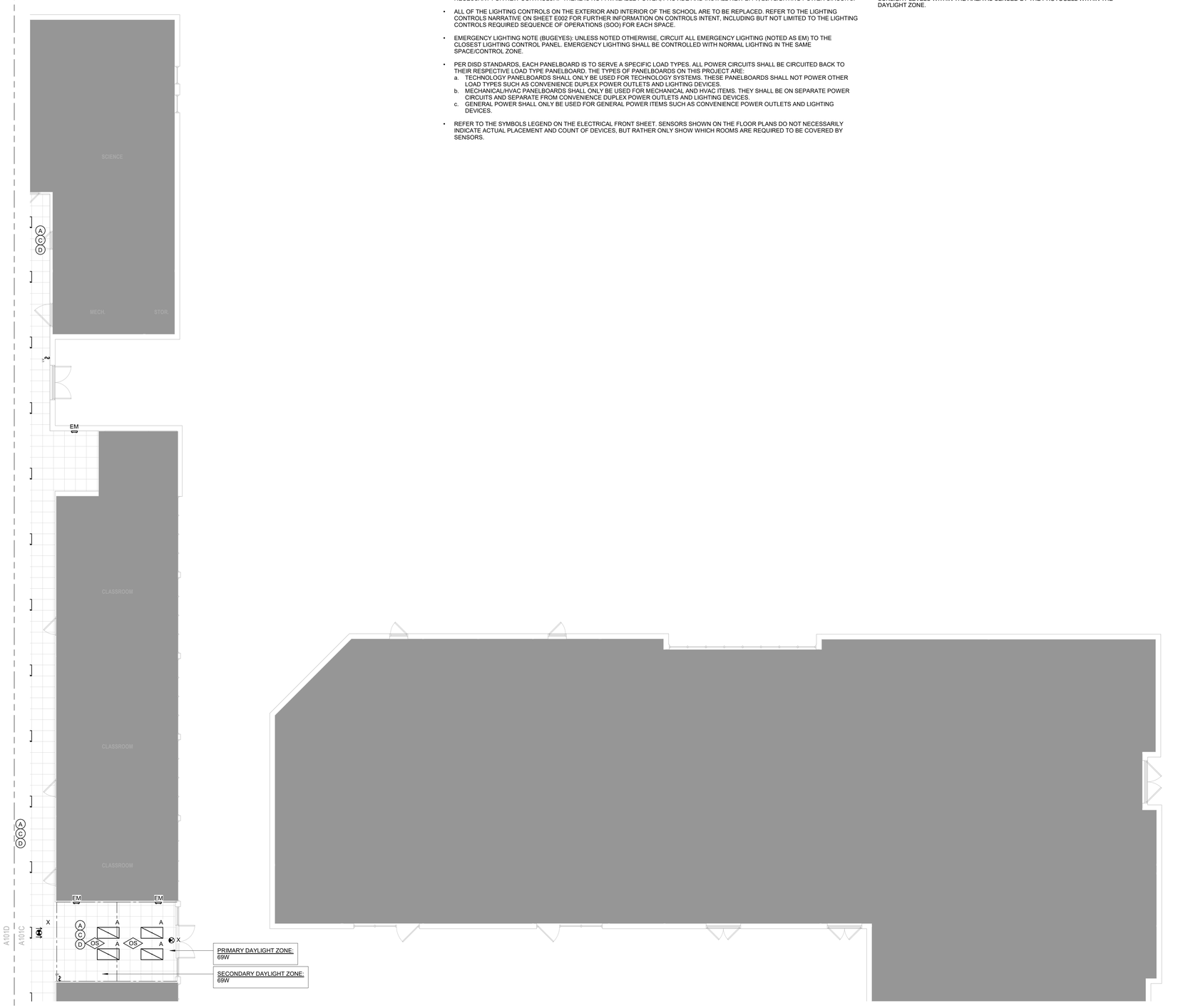

1 LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'C'
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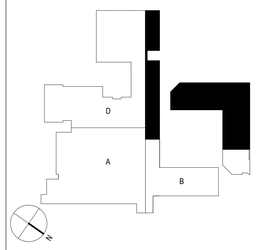
KEY PLAN



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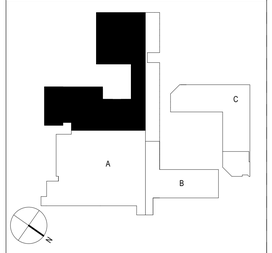
1/8" = 1'-0"

KEY PLAN



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PMI JOB NO. 22102.002
PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI

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DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 01 - QUADRANT LIGHTING PLANS - AREA 'D'

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
E301D
100% CD'S SUBMITTAL

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LIGHTING GENERAL NOTES:

- NEW LIGHTING CIRCUITING: REUSE THE EXISTING NORMAL LIGHTING CIRCUIT FOR ALL NEW NORMAL LIGHTING. REUSE THE EXISTING EMERGENCY LIGHTING CIRCUIT FOR ALL NEW EMERGENCY "EM" LIGHTING. REFER TO LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR ADDITIONAL. ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE MOST REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXITING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING CIRCUIT SERVING EXISTING LIGHTS SINCE THE SCOPE IS DECREASING THE WATTAGE. FULLY DEMOLISH ALL EXISTING LIGHTING CIRCUIT BACK TO WHERE IT ENTERS THE ROOM. MODIFY THE EXISTING CIRCUIT AS NECESSARY FOR NEW CONTROLS. PROVIDE ALL NEW CONDUCTORS AND CONDUIT WITHIN THE ROOM. THE EXISTING CIRCUIT CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES.
- EGRESS LIGHTING AND EXIT SIGNS SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE EGRESS LIGHTING TO MAINTAIN 1 FOOT-CANDLE AVERAGE AND 0.1 FOOT-CANDLE MINIMUM ILLUMINATION IN EGRESS PATH.
- STAIRWELL LIGHTING SHALL BE ON EMERGENCY POWER UPON LOSS OF NORMAL POWER. PROVIDE LIGHTING AT STAIRS TO MAINTAIN 10 FOOT-CANDLE MINIMUM AT EACH TREAD IN NORMAL CONDITIONS AND MATCH THE PREVIOUSLY NOTED EMERGENCY CONDITION REQUIREMENTS. UNDER NORMAL CONDITIONS, STAIR FIXTURE SHALL DIM TO 50% WHEN UNOCCUPIED FOR 30 MINUTES OR MORE.
- IN BOTH NORMAL POWER AND EMERGENCY POWER CONDITIONS, ELEVATOR LOBBIES SHALL HAVE 15 FOOT-CANDLES MINIMUM AT THRESHOLD OF EACH ELEVATOR.
- FOR ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS. CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT.
- ALL LIGHTING SHALL MATCH EXISTING FIXTURES VOLTAGE TO ALLOW THE REUSE OF EXISTING LIGHT FIXTURE CIRCUIT. IT IS ASSUMED THAT MOST OF THE EXISTING LIGHTING IS 277V, BUT THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EACH LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY FIXTURES. NEW LIGHTS CAN BE RECIRCUITED TO THE EXISTING CIRCUIT SERVING EXISTING LIGHTS SINCE WE ARE DECREASING THE WATTAGE BY GOING FROM FLUORESCENT TO LED. THE EXISTING CIRCUITING CAN ONLY BE USED IF IT DOES NOT CONFLICT WITH THE REQUIREMENTS ON THE LIGHTING CONTROLS FOR CERTAIN ZONES. MODIFY THE EXISTING CIRCUITING AS NECESSARY FOR NEW CONTROLS. IF THERE IS NOT AVAILABLE POWER, PROVIDE AND INSTALL NEW 277V, 20A LIGHTING POWER CIRCUITS.
- ALL OF THE LIGHTING CONTROLS ON THE EXTERIOR AND INTERIOR OF THE SCHOOL ARE TO BE REPLACED. REFER TO THE LIGHTING CONTROLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT, INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE.
- EMERGENCY LIGHTING NOTE (BUGEYES): UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING (NOTED AS EM) TO THE CLOSEST LIGHTING CONTROL PANEL. EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN THE SAME SPACE/CONTROL ZONE.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
  a. TECHNOLOGY PANELBOARDS SHALL ONLY BE USED FOR TECHNOLOGY SYSTEMS. THESE PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.
- REFER TO THE SYMBOLS LEGEND ON THE ELECTRICAL FRONT SHEET. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY SENSORS.

LIGHTING SCOPE NOTES:

A. PROVIDE AND INSTALL LIGHTING SWITCHES TO MATCH AS DESCRIBED IN THE LIGHTING CONTROLS NARRATIVE ON SHEET E002. CURRENT LOCATIONS OF THE LIGHT SWITCHES DO NOT COMPLY WITH ADA. ENSURE PRICING INCLUDES RELOCATING THE POSITION OF THE LIGHTING CONTROLS TO COMPLY WITH ADA AND ARCHITECTURAL MOUNTING HEIGHTS. SURFACE MOUNTED CONDUITS SHALL NOT BE ACCEPTABLE. ALL CONDUITS AND LIGHTING CONTROL BACK BOXES SHALL BE CONCEALED AND RECESSED/FLUSH WITHIN WALLS, EVEN IF THE EXISTING WALL IS CMU. WHERE APPLICABLE, ENSURE PRICING INCLUDES CORING OUT EXISTING CMU OR CONCRETE WALLS, CONCEALING ALL NEW CONDUITS WITHIN THE WALLS, AND RECESSED/FLUSH LIGHT CONTROLS BACKBOXES AS NEEDED.

B. REFER TO 1/E402 FOR AN EXAMPLE LAYOUT OF A TYPICAL CLASSROOM LIGHTING AND CONTROLS LAYOUT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT COUNT OF ALL LIGHT FIXTURES FOR DEMO AND REPLACEMENT.

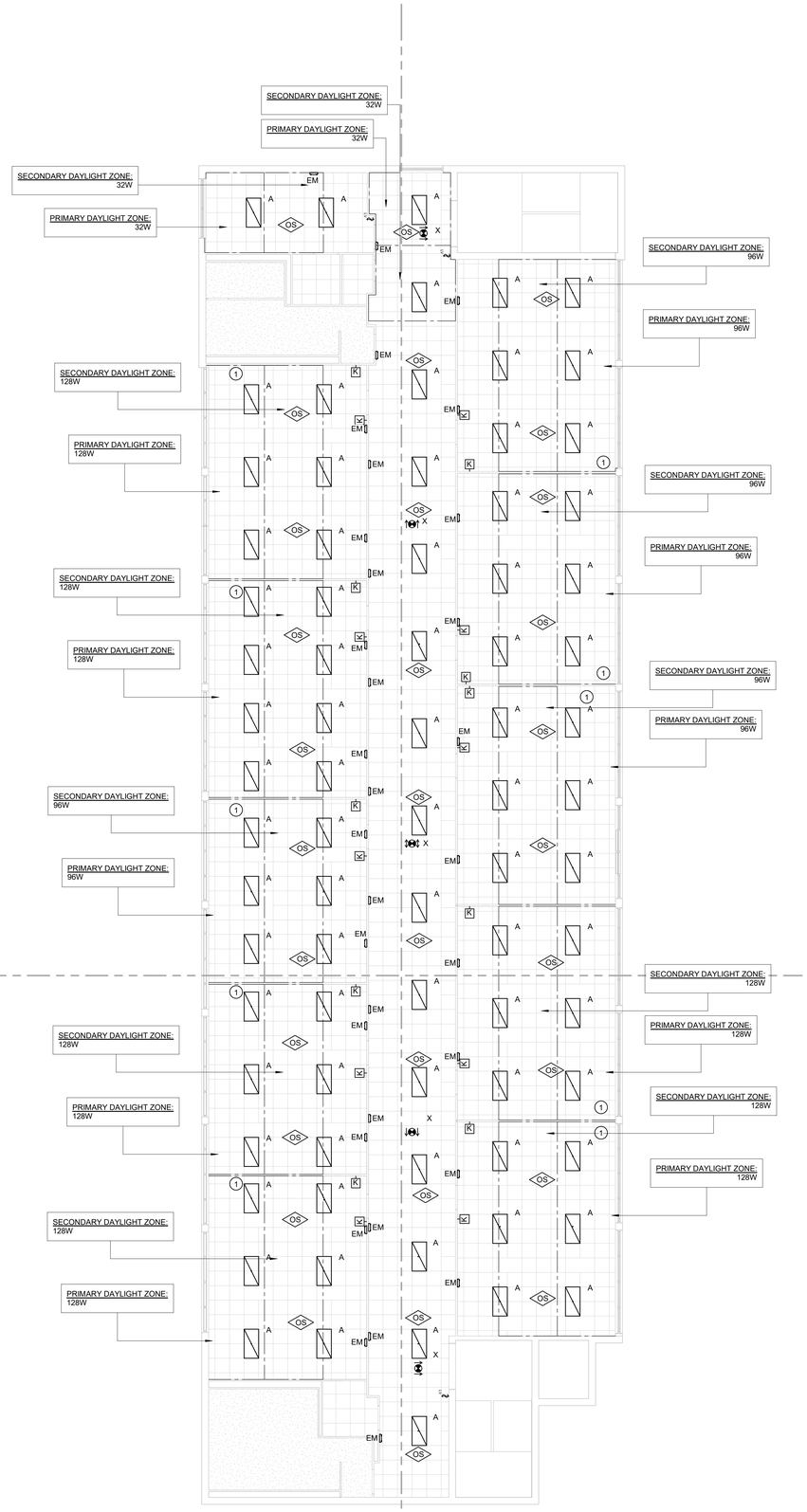
C. ALL CONDUITS TO THE WALL PACKS SHALL BE CONCEALED IN THE WALLS (THIS INCLUDES SOME CMU WALL LOCATIONS). NO EXPOSED CONDUIT ALLOWED. THE BUG-EYES SHALL BE SELF TESTING, SHALL BE NORMALLY OFF UNTIL THE LOSS OF NORMAL POWER, AND CONTROLLED SEPARATELY FROM THE NORMAL LIGHTING.

D. PROVIDE AND INSTALL INDIVIDUAL BATTERY LED EXIT SIGN WITHIN THE PATH OF EGRESS SUCH THAT ANY LOCATION WITHIN THE PATH OF EGRESS HAS TWO EXIT SIGNS WITHIN SIGHT.

E. ASSUMING EACH ROOM HAS A PRIMARY AND SECONDARY DAYLIGHT ZONE, AND THE COMBINED LIGHTING BETWEEN THE ZONES MEETS 300W. LIGHTING WITHIN DAYLIGHT ZONE SHALL BE CONTROLLED INDEPENDENTLY OF SURROUNDING GENERAL LIGHTING. PROVIDE AUTOMATIC DAYLIGHT HARVESTING WITHIN THE DAYLIGHT ZONE IN WHICH LIGHTING IN AUTOMATICALLY DIMMED TO A CAPABILITY OF 15% IN RESPONSE TO SUNLIGHT LEVELS WITHIN THE AREA AS SENSED BY THE PHOTOCELL WITHIN THE DAYLIGHT ZONE.

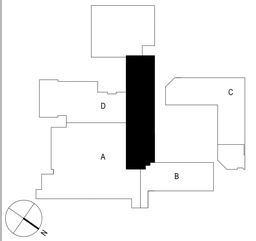
KEYED NOTES - SHEET E302

1 THIS WALL IS ASSUMED TO BE THE TEACHING WALL. IF THIS LOCATION IS NOT THE TEACHING WALL, RELOCATE THE LIGHTING CONTROLLER TO THE ACTUAL LOCATION OF THE TEACHING WALL.



1 LEVEL 02 - QUADRANT LIGHTING PLANS - OVERALL
1/8" = 1'-0"

KEY PLAN



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DALLAS INDEPENDENT SCHOOL DISTRICT
BANDY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

LEVEL 02 - LIGHTING PLANS - OVERALL

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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PEGOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

R22301.01

E302

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POWER GENERAL NOTES:

- REFER TO THE ELECTRICAL FRONT SHEET E001 FOR ADDITIONAL APPLICABLE GENERAL NOTES.
- REFER TO ARCHITECTURAL PLANS FOR RECEPTACLE HEIGHTS AND COORDINATE HEIGHTS OF RECEPTACLES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CIRCUITS SHOWN SHALL BE 120V, 20A POWER CIRCUITS, UNLESS OTHERWISE NOTED. EXISTING 120V, 20A CIRCUITS THAT PREVIOUSLY SERVED DEMOLISHED AREAS OF THE FLOOR SHALL BE RE-USED TO SERVE REVISED SPACES. CIRCUIT NUMBERS ARE INTENDED TO REPRESENT QUANTITIES OF CIRCUITS AND DO NOT ALIGN WITH PANELBOARD CIRCUIT BREAKER NUMBERS.
- LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, INSTALLATION HEIGHTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS..
- CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT. IF THE FEEDERS AND CONDUITS ARE IN GOOD CONDITION AND ARE APPROPRIATELY SIZED PER THE NEC, THE ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS.
- NEW MECHANICAL EQUIPMENT POWER SHALL RECEIVE NEW ELECTRICAL FEEDERS AND CONDUIT. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO THE POWER SOURCE. REFER TO THE LARGE NOTE ON SHEET E201 FOR ADDITION CLARIFICATION ON MECHANICAL POWER CONCERNS WITH EXISTING CONDITIONS.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
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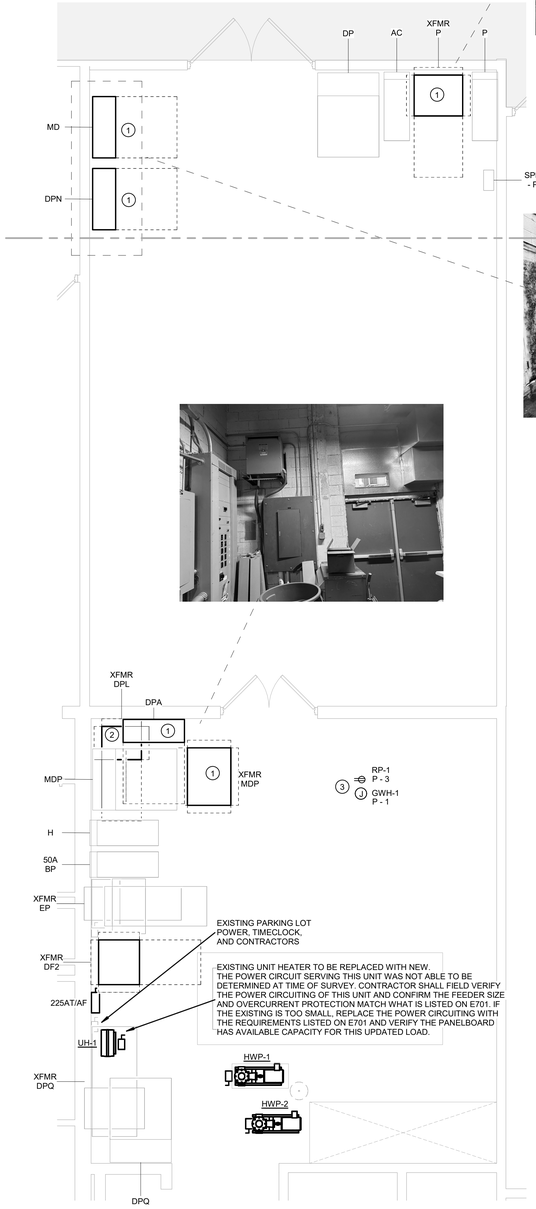
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.

KEYED NOTES - SHEET E401

1 THERE IS EXISTING ELECTRICAL EQUIPMENT AT THIS LOCATION. REMOVE THE EXISTING AND REPLACE WITH NEW. REFER TO SHEET E501 FOR FURTHER INFORMATION.
2 THIS TRANSFORMER IS SUSPENDED. REFER TO 1/E601 FOR FURTHER INFORMATION.
3 LOCATION OF EQUIPMENT IS DIAGRAMMATIC IN NATURE. COORDINATE WITH THE PLUMBING CONTRACTOR FOR THE FINAL LOCATION OF PLUMBING EQUIPMENT IN THIS SPACE.



ESTIMATED LOCATION OF PANELBOARDS IN EXTERIOR STORAGE CLOSET.

PMI WAS UNABLE TO VERIFY THIS INFORMATION AT TIME OF SURVEY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF EQUIPMENT.

IF NEW SWITCHBOARDS ARE UNABLE TO BE LOCATED IN THE STORAGE CLOSETS, PROVIDE A NEMA 3R ENCLOSURE AND LOCATE THE ELECTRICAL EQUIPMENT OUTSIDE OF THE STORAGE CLOSET AND EXTEND THE CONDUITS AND CONDUCTORS TO THE NEW LOCATION.

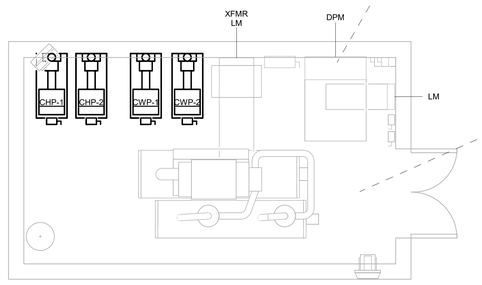
EXISTING PARKING LOT POWER, TIMECLOCK, AND CONTRACTORS

EXISTING UNIT HEATER TO BE REPLACED WITH NEW. THE POWER CIRCUIT SERVING THIS UNIT WAS NOT ABLE TO BE DETERMINED AT TIME OF SURVEY. CONTRACTOR SHALL FIELD VERIFY THE POWER CIRCUITING OF THIS UNIT AND CONFIRM THE FEEDER SIZE AND OVERCURRENT PROTECTION MATCH WHAT IS LISTED ON E701. IF THE EXISTING IS TOO SMALL, REPLACE THE POWER CIRCUITING WITH THE REQUIREMENTS LISTED ON E701 AND VERIFY THE PANELBOARD HAS AVAILABLE CAPACITY FOR THIS UPDATED LOAD.

1 ENLARGED MECH/BOILER ROOM D-010/CHILLER YARD D-013 - ELECTRICAL PLAN
1/4" = 1'-0"

ALTERNATE E2 ELECTRICAL SCOPE:

- PER DISD ELECTRICIAN REQUEST, PROVIDE AN ADD ALTERNATE TO REPLACE EXISTING DISTRIBUTION BOARD DPM, LOCATED IN THE CHILLER SHACK.
- DUE TO EXISTING PIPING BLOCKING FULL ACCESS INTO TO THE CHILLER SHACK, THE NEW GEAR MAY NOT FIT THROUGH THE DOORS. THEREFORE, THE CONTRACTOR SHALL ENSURE THE NEW GEAR FITS INTO THE EXISTING AREAS PRIOR TO PROVIDING PRICING. IF IT DOES NOT FIT IN THE EXISTING CHILLER SHACK, THE CONTRACTOR SHALL INCLUDE PRICING THAT INCORPORATE NEMA 3R GEAR ENCLOSURES AND SHALL BE PLACED EXTERIOR TO THE CHILLER SHACK. THIS PRICING SHALL INCLUDE ANY ADJUSTMENTS / EXTENSIONS NEEDED TO ENSURE THAT INCOMING MAIN FEEDERS CAN TERMINATE PROPERLY IN THE NEW GEAR. REFER TO E501 FOR FURTHER INFORMATION.



3 ENLARGED UTILITY YARD - ELECTRICAL PLAN
1/4" = 1'-0"

KEY PLAN

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DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL ENLARGED PLAN

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PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

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- LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, INSTALLATION HEIGHTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS..
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- NEW MECHANICAL EQUIPMENT POWER SHALL RECEIVE NEW ELECTRICAL FEEDERS AND CONDUIT. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO THE POWER SOURCE. REFER TO THE LARGE NOTE ON SHEET E201 FOR ADDITION CLARIFICATION ON MECHANICAL POWER CONCERNS WITH EXISTING CONDITIONS.
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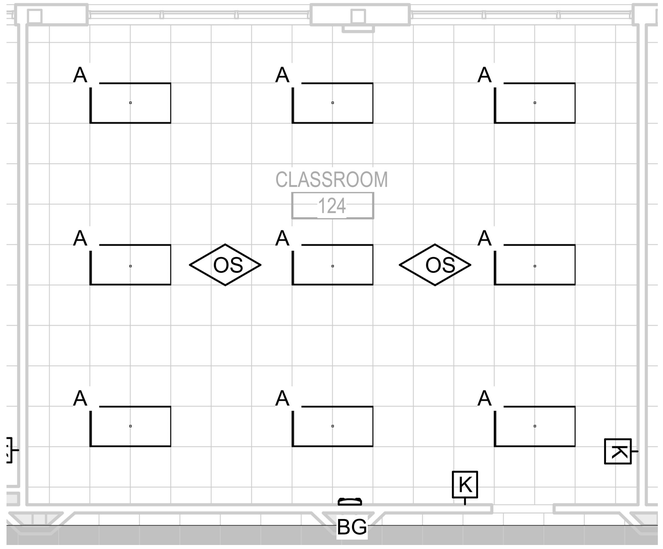
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.

KEYED NOTES - SHEET E402

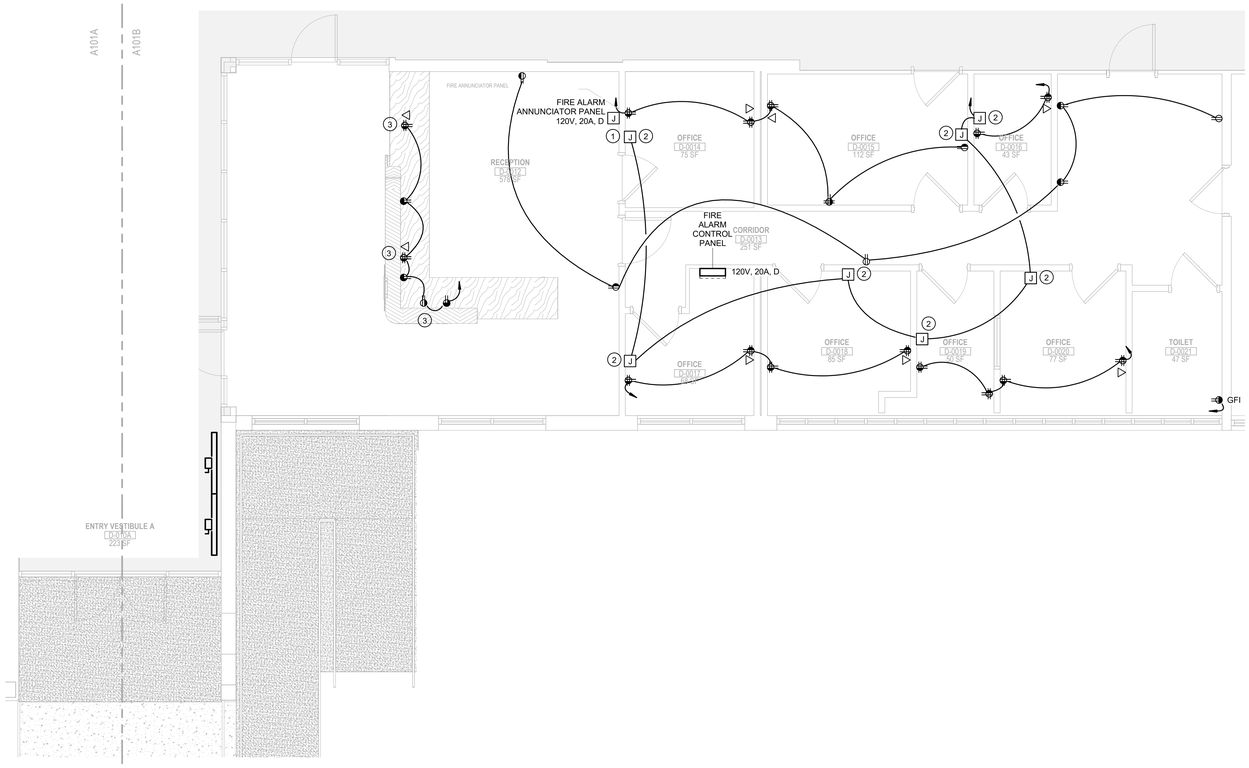
1 JUNCTION BOX INDICATES LOCATION OF FIRE ALARM ANNUNCIATOR PANEL. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.

2 PROVIDE AND INSTALL 120V POWER CIRCUIT FOR CLOCK POWER. CONFIRM MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE NEED FOR 24V TRANSFORMER. ELECTRICAL CONTRACTOR TO PROVIDE TRANSFORMER IF NEEDED.

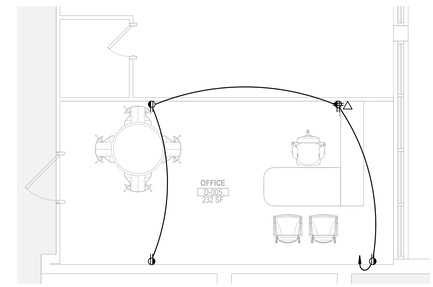
3 PROVIDE POWER TO RECEPTACLES LOCATED ABOVE AND BELOW THE DESK, AND THE POWER CONNECTION FOR THE DESK SHALL BE ROUTED THROUGH THE MILLWORK UP TO THE DUPLEX RECEPTACLES. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION AND MOUNTING OF DUPLEX RECEPTACLES TO MILLWORK WITH ARCHITECT, AND PROVIDE AND INSTALL RECEPTACLES, COVER PLATE, AND POWER CONNECTION TO RECEPTACLES IN MILLWORK.



1 TYPICAL CLASSROOM LAYOUT
NOT TO SCALE



2 ENLARGED ADMIN AREA - ELECTRICAL PLAN
1/4" = 1'-0"



3 ENLARGED PRINCIPAL OFFICE - ELECTRICAL PLANS
1/4" = 1'-0"

KEY PLAN

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17300 North Dallas Parkway Suite 3000 Dallas, TX 75248-1147
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PM: JOB NO. 22102.002
PROJECT MGR. C. BRANDON S. JARRETT
MECHANICAL R. PICCOTT
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
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DALLAS INDEPENDENT SCHOOL DISTRICT — RAGSY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL ENLARGED PLAN

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025

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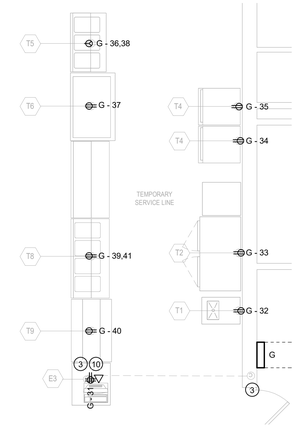
- LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, INSTALLATION HEIGHTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS..
- CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT. IF THE FEEDERS AND CONDUITS ARE IN GOOD CONDITION AND ARE APPROPRIATELY SIZED PER THE NEC, THE ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS.
- NEW MECHANICAL EQUIPMENT POWER SHALL RECEIVE NEW ELECTRICAL FEEDERS AND CONDUIT. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO THE POWER SOURCE. REFER TO THE LARGE NOTE ON SHEET E201 FOR ADDITION CLARIFICATION ON MECHANICAL POWER CONCERNS WITH EXISTING CONDITIONS.
- PER DISD STANDARDS, EACH PANELBOARD IS TO SERVE A SPECIFIC LOAD TYPES. ALL POWER CIRCUITS SHALL BE CIRCUITED BACK TO THEIR RESPECTIVE LOAD TYPE PANELBOARD. THE TYPES OF PANELBOARDS ON THIS PROJECT ARE:
  a. TECHNOLOGY PANELBOARDS SHALL ONLY BE USED FOR TECHNOLOGY SYSTEMS. THESE PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  b. MECHANICAL/HVAC PANELBOARDS SHALL ONLY BE USED FOR MECHANICAL AND HVAC ITEMS. THEY SHALL BE ON SEPARATE POWER CIRCUITS AND SEPARATE FROM CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
  c. GENERAL POWER SHALL ONLY BE USED FOR GENERAL POWER ITEMS SUCH AS CONVENIENCE POWER OUTLETS AND LIGHTING DEVICES.

KITCHEN POWER:

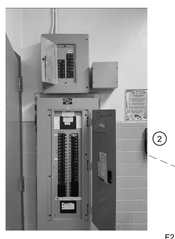
- REFER TO FOOD SERVICE DRAWINGS AND SCHEDULES FOR INFORMATION INCLUDING BUT NOT LIMITED TO ELECTRICAL SCOPE, POWER REQUIREMENTS, LOCATION OF ELECTRICAL EQUIPMENT, CONNECTION TYPES, AND MOUNTING HEIGHTS. COORDINATE FINAL LOCATIONS IN FIELD.
- ALL POWER CIRCUITS IN THE KITCHEN AREA SHALL BE DEDICATED POWER CIRCUITS.
- ALL RECEPTACLES IN KITCHEN AREAS SHALL BE GFCI RATED AT THE RECEPTACLE OR AT THE CIRCUIT BREAKER.
- ALL HARDWIRED EQUIPMENT INSTALLED NOT WITHIN LINE OF SITE OF THE KITCHEN'S PANELBOARD SHALL HAVE A LOCKABLE TYPE CIRCUIT BREAKER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING WIRING, CONDUIT, ETC. FOR A COMPLETE AND OPERABLE KITCHEN CONTROLS SYSTEM. THIS INCLUDES BUT NOT LIMITED TO HOOD CONTROL AND EXHAUST FAN CONTROL.
- REFER TO KITCHEN CONSULTANT PLANS FOR LOCATIONS AND HEIGHTS OF KITCHEN EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
- ALL ELECTRICAL CONNECTIONS BENEATH THE EXHAUST HOOD SHALL EXTEND TO SHUNT TRIP CIRCUIT BREAKERS WITHIN THE ELECTRICAL PANELBOARDS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM EXHAUST HOOD FIRE SUPPRESSION SYSTEM TO ELECTRICAL RELAYS AND ALARMS.
- REFER TO SHEET E701 FOR AN ELECTRICAL KITCHEN SCHEDULE

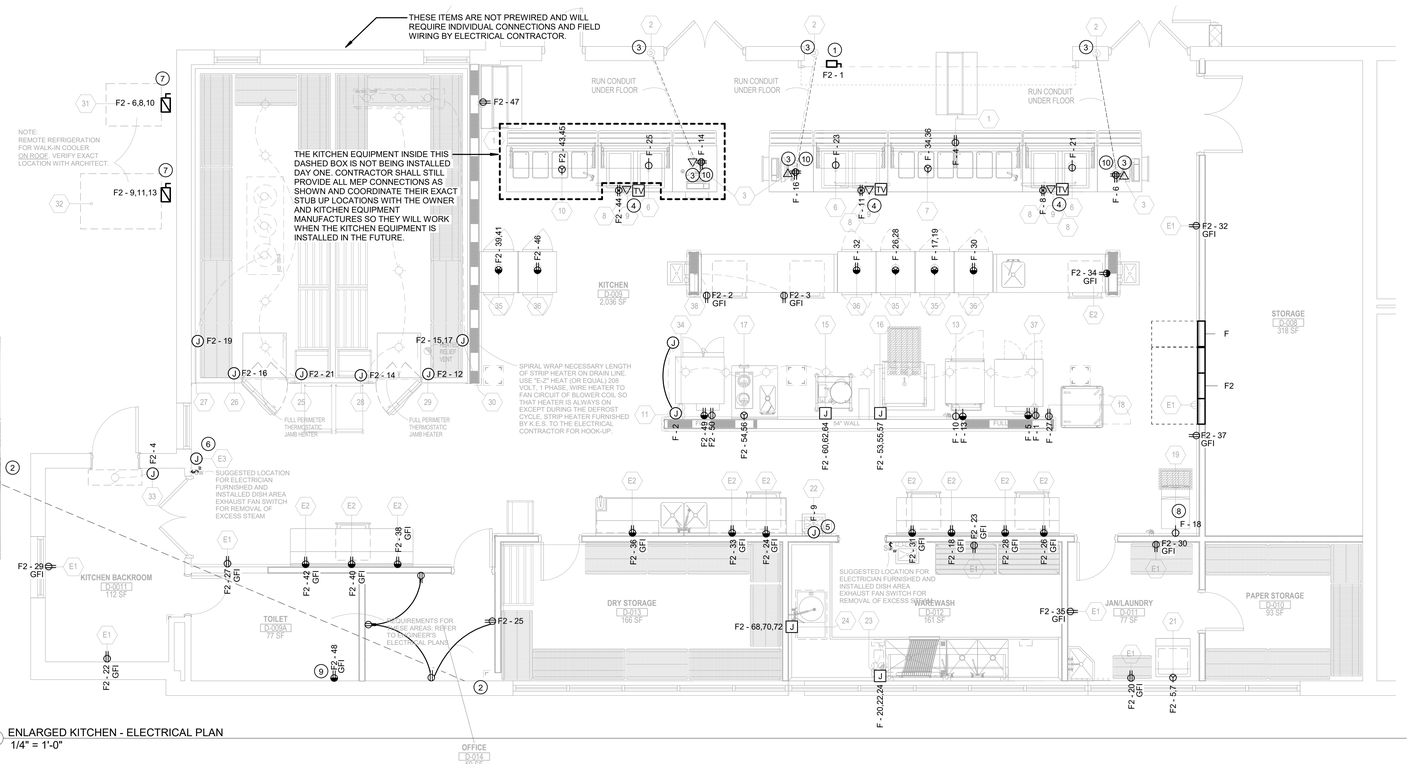
KEYED NOTES - SHEET E403

1 INTEGRATE FIRE SHUTTER INTO THE FIRE ALARM SYSTEM.
2 THERE IS EXISTING ELECTRICAL EQUIPMENT AT THIS LOCATION. REMOVE THE EXISTING AND REPLACE WITH NEW. RELOCATE THE POWER CIRCUITS FOR PANELBOARD F TO THE NEW LOCATION SHOWN ON THIS SHEET. REFER TO SHEET E501 FOR FURTHER INFORMATION.
3 1" CONDUIT, STUB UP 4" AFF. EXTEND OPEN CONDUIT UNDER FLOOR, OVER TO WALL, AND UP TO A POINT (MINIMUM 6") ABOVE CEILING LINE FOR OWNERS P.O.S WIRING SYSTEM.
4 1" CONDUIT FOR DATA CABLING DOWN FROM ABOVE AND EXTEND OPEN CONDUIT ABOVE CEILING.
5 SEE FOOD SERVICE DRAWINGS FOR MORE INFORMATION REGARDING FIRE SUPPRESSION SYSTEM.
6 BOX WITH STUB UP FOR FIRE PULL DEVICE. SEE KITCHEN DRAWINGS FOR MORE DETAILS.
7 REMOTE REFIGERATION UNIT FOR WALK-IN COOLER LOCATED ON THE ROOF. VERIFY THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
8 PROVIDE AND INSTALL A TIME DELAY FUSE TO FUSE THE ICE MACHINE POWER CIRCUIT. COORDINATE WITH THE FOOD SERVICE DESIGNER FOR FURTHER INFORMATION.
9 LOCATE RECEPTACLE BESIDES BATHROOM SINK. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF SINK.
10 PER DISD REQUIREMENT, PROVIDE AND INSTALL A SURGE PROTECTION DEVICE ON THIS POWER CIRCUIT.



2 ENLARGED TEMPORARY SERVICE LINE - ELECTRICAL PLAN
1/4" = 1'-0"





1 ENLARGED KITCHEN - ELECTRICAL PLAN
1/4" = 1'-0"

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL ENLARGED PLAN - KITCHEN

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
E403
100% CD'S SUBMITTAL

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Mechanical - Electrical Engineers
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PM: JOE NO.: 22102.002
PROJECT MGR.: C. BRANDON, B.JARRETT
MECHANICAL: C. RICCOTTI
PLUMBING: R. COTTRELL
ELECTRICAL: C.JAMULINSKI

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX.

REVIT VERSION: 2023
PRINT DATE: 12/2/2025 2:45:04 PM
FILE INFO: J:\Models\Docs\R22301.01_DISD Harry Stone Montessori Academy Reno - R22\22301.01_DISD Harry Stone Montessori Acad Reno_ELECT_R23.rvt

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FEEDER SCHEDULE

REFER TO GROUNDING RISER DIAGRAM DETAIL FOR MORE INFORMATION ON THE ROUTING OF THE GROUNDS WITHIN EACH FEEDER BELOW.

NOTE	BKR	FEEDER SIZE
3 PHASE, 3 WIRE		
703	70/3	3#4, 1#8G, 1"C
1103	110/3	3#2, 1#6G, 1-1/4"C
3503	350/3	3#500, 1#3G, 4"C
3 PHASE, 4 WIRE		
204	20/3	4#12, 1#12G, 3/4"C
604	60/3	4#4, 1#10G, 1-1/4"C
1004	100/3	4#1, 1#8G, 1-1/2"C
2254	225/3	4#4/0, 1#4G, 2-1/2"C
4004	400/3	2 SETS: 4#3/0, 1#3G, 2"C
8004	800/3	3 SETS: 4#300, 1#1/0G, 2-1/2"C

GENERAL NOTES:

A. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO VERIFY THE QUANTITY OF SPARES FOR CIRCUIT BREAKERS IS SUFFICIENT PER ENGINEERS DESIGN. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.

B. ALL CONDUCTORS SHALL BE COPPER PER DISD TDGS. ALUMINUM SHALL NOT BE ALLOWED. NO EXCEPTIONS.

C. ALL BUSING SHALL BE COPPER.

D. TRANSFORMERS SHALL HAVE COPPER WINDINGS.

E. PROVIDE FULL HEIGHT VERTICAL BUS FOR ALL SWITCHBOARDS, DISTRIBUTION BOARDS AND PANELBOARDS.

F. ALL PANELBOARDS SHALL BE PROVIDED WITH 100% RATED FEED THROUGH LUGS.

G. ALL ELECTRICAL FEEDERS SERVING HVAC EQUIPMENT SHALL BE COPPER ONLY.

H. ALL BREAKERS RATED 1200A OR MORE SHALL BE PROVIDED WITH ARC ENERGY REDUCTION COMPLYING WITH NEC 240.87. ALL FUSES RATED 1200A OR MORE SHALL BE PROVIDED WITH ARC ENERGY REDUCTION COMPLYING WITH NEC 240.67. PROVIDE ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR TO MEET REDUCTION METHOD.

I. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT/SHORT CIRCUIT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH BUS PER SPECIFICATIONS AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC) AND ARC FLASH STUDIES. PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATIONS. THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHALL BE USED. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT THE TIME THE PANELBOARDS, SWITCHBOARDS, AUTOMATIC TRANSFER SWITCHES AND OTHER RELATED DISTRIBUTION EQUIPMENT ARE SUBMITTED.

J. WHERE SELECTIVE COORDINATION IS REQUIRED SEE THE SELECTIVE COORDINATION NOTE BLOCK ON THIS SHEET.

K. FEEDERS HAVE BEEN SIZED FOR TOTAL VOLTAGE DROP OF 5% ACROSS THE ENTIRE SYSTEM FROM THE UTILITY SERVICE POINT TO EACH END LOAD. THIS INCLUDES A MAXIMUM VOLTAGE DROP OF 2% BETWEEN THE SERVICE POINT AND THE LAST PANELBOARD (FEEDERS)), AND A MAXIMUM VOLTAGE DROP OF 3% BETWEEN THE PANELBOARD AND THE END LOAD (BRANCH CIRCUIT). THE SYSTEM WAS DESIGNED PER NEC SECTION 210.19 INFORMATIONAL NOTE AND IECC SECTION C405.9. ANY CONTRACTOR PROPOSED MATERIAL CHANGE SHALL STILL MEET THESE SECTIONS AND IS REQUIRED TO BE SUBMITTED WITH A VOLTAGE DROP CALCULATION FOR ENGINEERS REVIEW.

L. PER DISD TECHNICAL GUIDELINES DIVISION 26, ACCEPTABLE MANUFACTURERS SHALL BE (NOTE ALL NEW ELECTRICAL EQUIPMENT SHALL BE OF ONE MANUFACTURER):
   a. 14.1. SQUARE D
   b. 14.2. EATON
   c. 14.3. GENERAL ELECTRIC

KEYED NOTES - SHEET E501

1 PROVIDE SERVICE ENTRANCE BREAKER WITH GROUND FAULT PROTECTION AND ARC FLASH REDUCTION COMPLYING WITH NEC 240.87. TO MEET SELECTIVE COORDINATION REQUIREMENTS, PROVIDE BREAKER EQUAL TO GE #SS-LSIG.

2 EQUIPMENT BEING SERVED WAS NOT IDENTIFIED ON THE ELECTRICAL EQUIPMENT DURING SITE VISITS. THE ELECTRICAL CONTRACTOR SHALL CONDUCT FIELD SURVEYS TO DETERMINE IF THE ELECTRICAL CIRCUIT STILL REMAINS IN THE BUILDING, OR IF THE ELECTRICAL CIRCUIT NO LONGER EXISTS. IF THE ELECTRICAL CIRCUIT NO LONGER EXISTS, MARK THE BREAKER AS A SPARE AND REUSE THE SPARE POWER CIRCUIT AS NEEDED.

3 PANELBOARD WAS NOT LOCATED DURING SURVEY. THE ELECTRICAL CONTRACTOR SHALL CONDUCT FIELD SURVEYS TO CONFIRM THE EXISTING CIRCUIT BREAKER SIZE AND REPLACE THE CIRCUIT BREAKER ONE FOR ONE.

4 CONTRACTOR SHALL CAMERA SCOPE ALL EXISTING CONDUITS PRIOR TO THE START OF CONSTRUCTION TO FIELD VERIFY THE CONDITION OF THE EXISTING CONDUITS. IF THE CONDUITS ARE IN GOOD CONDITION, REUSE THE EXISTING CONDUIT TO REFEED THE NEW LOADS. IF THE CONDUITS ARE IN BAD CONDITION, DEMOLISH AND REPLACE THE CONDUITS WITH THE SIZES LISTED. CONTRACTOR SHALL SUBMIT THE CAMERA SCOPING REPORT TO THE ARCHITECT, OWNER, AND ENGINEER PRIOR TO THE START OF ANY WORK. REPORT SHALL INCLUDE A SHOP DRAWINGS OR DETAILED SKETCH WITH LOCATIONS OF ANY INCORRECTLY SIZED CONDUITS, DAMAGED CONDUITS, BLOCKED CONDUITS, GENERAL SUMMARY OF CONDUITS, ETC.

5 PANELBOARD WAS NOT LOCATED DURING SURVEY. THE ELECTRICAL CONTRACTOR SHALL CONDUCT FIELD SURVEYS TO CONFIRM THE QUANTITY OF EXISTING CIRCUITS AND THE CIRCUIT BREAKER SIZES. THE NEW PANELBOARD SHALL REPLACE THE CIRCUIT BREAKER ONE FOR ONE.

6 PROVIDE SMART METER EQUAL TO SQUARE D POWERLOGIC PM5563 SERIES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING CONTROLS CONTRACTOR INTEGRATE THE METER INTO THE BMS VIA BACNET MS/TP INTEGRATION. METER SHALL BE MOUNTED INTEGRAL TO SWITCHBOARD. PROVIDE 1" CONDUIT PATHWAY AND WIRE LEADS SO THAT BMS CONTRACTOR CAN TIE METER INTO BMS WITHOUT DE-ENERGIZING THE SWITCHBOARD. THE UNIT SHALL PROVIDE POWER MONITORING, POWER REPORTING, ALARM NOTIFICATION (LOSS OF POWER), AND CONNECTION INTO THE DALLAS ISD ENERGY MANAGEMENT SYSTEM.

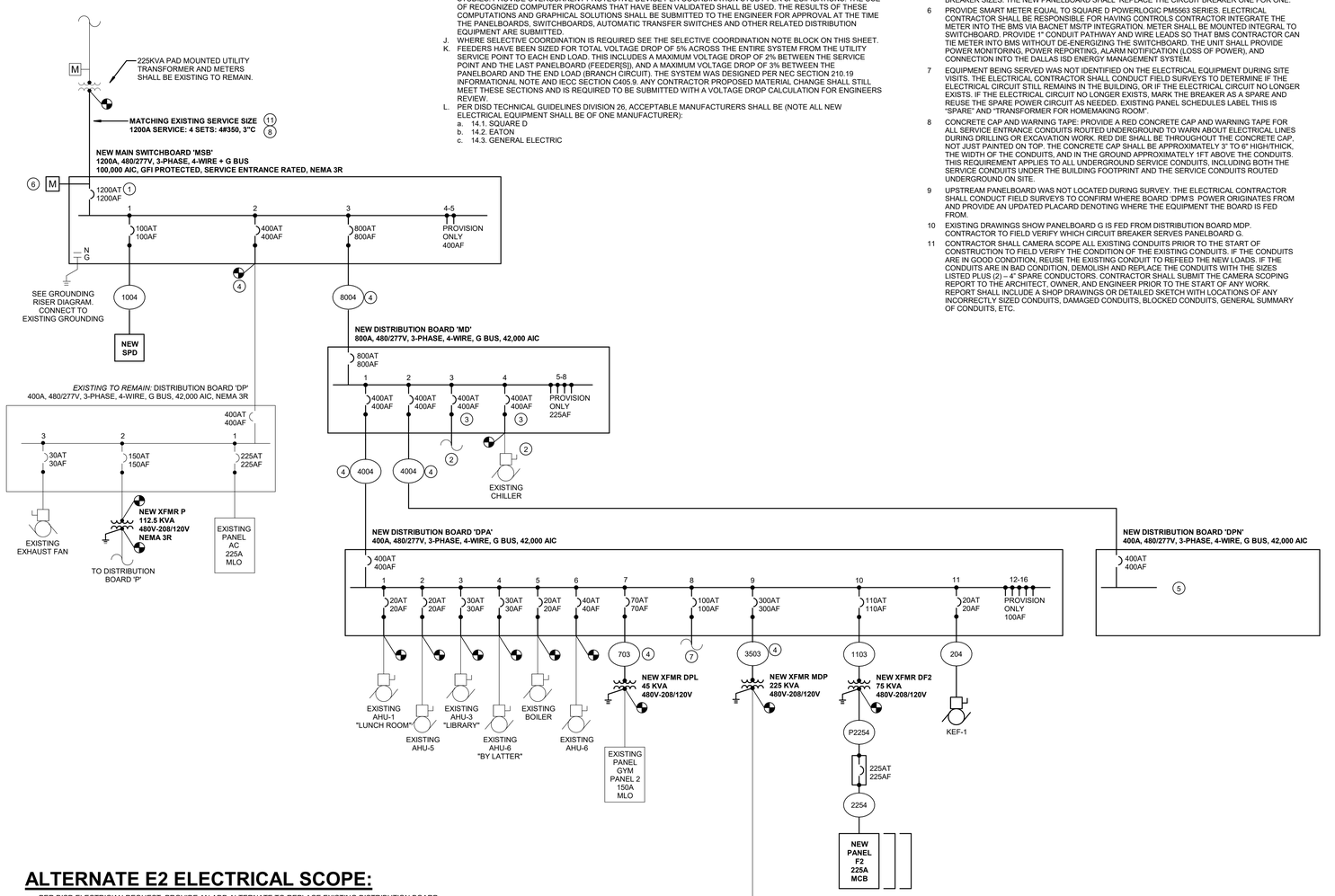
7 EQUIPMENT BEING SERVED WAS NOT IDENTIFIED ON THE ELECTRICAL EQUIPMENT DURING SITE VISITS. THE ELECTRICAL CONTRACTOR SHALL CONDUCT FIELD SURVEYS TO DETERMINE IF THE ELECTRICAL CIRCUIT STILL REMAINS IN THE BUILDING, OR IF THE ELECTRICAL CIRCUIT NO LONGER EXISTS. IF THE ELECTRICAL CIRCUIT NO LONGER EXISTS, MARK THE BREAKER AS A SPARE AND REUSE THE SPARE POWER CIRCUIT AS NEEDED. EXISTING PANEL SCHEDULES LABEL THIS IS "SPARE" AND "TRANSFORMER FOR HOMEMAKING ROOM".

8 CONCRETE CAP AND WARNING TAPE: PROVIDE A RED CONCRETE CAP AND WARNING TAPE FOR ALL SERVICE ENTRANCE CONDUITS ROUTED UNDERGROUND TO WARN ABOUT ELECTRICAL LINES DURING DRILLING OR EXCAVATION WORK. RED DIE SHALL BE THROUGHOUT THE CONCRETE CAP, NOT JUST PAINTED ON TOP. THE CONCRETE CAP SHALL BE APPROXIMATELY 3" TO 6" HIGH/THICK, THE WIDTH OF THE CONDUITS, AND IN THE GROUND APPROXIMATELY 1FT ABOVE THE CONDUITS. THIS REQUIREMENT APPLIES TO ALL UNDERGROUND SERVICE CONDUITS, INCLUDING BOTH THE SERVICE CONDUITS UNDER THE BUILDING FOOTPRINT AND THE SERVICE CONDUITS ROUTED UNDERGROUND ON SITE.

9 UPSTREAM PANELBOARD WAS NOT LOCATED DURING SURVEY. THE ELECTRICAL CONTRACTOR SHALL CONDUCT FIELD SURVEYS TO CONFIRM WHERE BOARD DPM'S POWER ORIGINATES FROM AND PROVIDE AN UPDATED PLACARD DENOTING WHERE THE EQUIPMENT THE BOARD IS FED FROM.

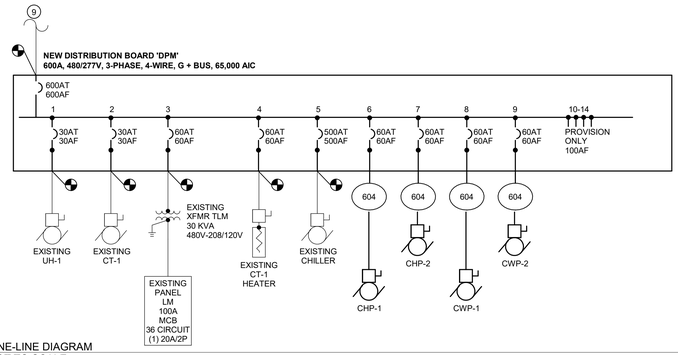
10 EXISTING DRAWINGS SHOW PANELBOARD G IS FED FROM DISTRIBUTION BOARD MDP. CONTRACTOR TO FIELD VERIFY WHICH CIRCUIT BREAKER SERVES PANELBOARD G.

11 CONTRACTOR SHALL CAMERA SCOPE ALL EXISTING CONDUITS PRIOR TO THE START OF CONSTRUCTION TO FIELD VERIFY THE CONDITION OF THE EXISTING CONDUITS. IF THE CONDUITS ARE IN GOOD CONDITION, REUSE THE EXISTING CONDUIT TO REFEED THE NEW LOADS. IF THE CONDUITS ARE IN BAD CONDITION, DEMOLISH AND REPLACE THE CONDUITS WITH THE SIZES LISTED PLUS (2) --4" SPARE CONDUCTORS. CONTRACTOR SHALL SUBMIT THE CAMERA SCOPING REPORT TO THE ARCHITECT, OWNER, AND ENGINEER PRIOR TO THE START OF ANY WORK. REPORT SHALL INCLUDE A SHOP DRAWINGS OR DETAILED SKETCH WITH LOCATIONS OF ANY INCORRECTLY SIZED CONDUITS, DAMAGED CONDUITS, BLOCKED CONDUITS, GENERAL SUMMARY OF CONDUITS, ETC.



ALTERNATE E2 ELECTRICAL SCOPE:

- PER DISD ELECTRICIAN REQUEST, PROVIDE AN ADD ALTERNATE TO REPLACE EXISTING DISTRIBUTION BOARD DPM, LOCATED IN THE CHILLER SHACK.
- DUE TO EXISTING PIPING BLOCKING FULL ACCESS INTO TO THE CHILLER SHACK, THE NEW GEAR MAY NOT FIT THROUGH THE DOORS. REFER TO iE401 FOR A PICTURE. THEREFORE, THE CONTRACTOR SHALL ENSURE THE NEW GEAR FITS INTO THE EXISTING AREAS PRIOR TO PROVIDING PRICING. IF IT DOES NOT FIT IN THE EXISTING CHILLER SHACK, THE CONTRACTOR SHALL INCLUDE PRICING THAT INCORPORATE NEMA 3R GEAR ENCLOSURES AND SHALL BE PLACED EXTERIOR TO THE CHILLER SHACK. THIS PRICING SHALL INCLUDE ANY ADJUSTMENTS / EXTENSIONS NEEDED TO ENSURE THAT INCOMING MAIN FEEDERS CAN TERMINATE PROPERLY IN THE NEW GEAR.



1 ONE-LINE DIAGRAM
NOT TO SCALE

SCOPE OF WORK:

- ALL DISTRIBUTION BOARDS, SWITCHGEARS, PANELBOARDS, AND TRANSFORMERS MARKED AS "NEW" AND DRAWN IN BOLDED LINES SHALL BE REPLACED WITH THE CONFIGURATION SHOWN ON THESE DRAWINGS. BASIS OF DESIGN IS A ONE-FOR-ONE REPLACEMENT IN THE SAME APPROXIMATE LOCATIONS AS THE EXISTING.
- ALL ELECTRICAL EQUIPMENT NOT MARKED AS "NEW" SHALL BE ASSUMED TO BE EXISTING TO REMAIN
- RECONNECT EXISTING FEEDERS AND LOADS TO NEW PANELBOARDS, UNLESS NOTED OTHERWISE. ALL OTHER ELECTRICAL FEEDERS NOT SHOWN WITH A FEEDER TAG ON THIS SHEET SHALL BE ASSUMED TO BE EXISTING TO REMAIN AND SHALL BE RECONNECTED TO NEW AND EXISTING EQUIPMENT.
- FOR ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING FEEDERS TO NEW EQUIPMENT BEFORE RUNNING NEW FEEDERS, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIRST VERIFY THE CONDITION OF THE EXISTING FEEDERS AND SHALL NOTIFY THE ARCHITECT AND ELECTRICAL DESIGNER SHOULD THE CONDITIONS OF THE EXISTING FEEDERS REQUIRE REPLACEMENT.
- NEW MECHANICAL EQUIPMENT POWER SHALL RECEIVE NEW ELECTRICAL FEEDERS AND CONDUIT, AND THE EXISTING EQUIPMENT THAT IS BEING REPLACED SHALL HAVE THE EQUIPMENT'S EXISTING CONDUIT AND CONDUCTORS REMOVED BACK TO THE POWER SOURCE.
- ALL SPD'S AND TVSS IMMEDIATELY CONNECTED TO NEW ELECTRICAL EQUIPMENT SHALL BE REPLACED WITH NEW SPD'S AND TVSS.
- CONTRACTOR SHALL ENSURE THE NEW GEAR FITS INTO THE EXISTING AREAS PRIOR TO PROVIDING PRICING. IF IT DOES NOT FIT IN THE EXISTING BOILER ROOM OR CHILLER YARD, THE CONTRACTOR SHALL INCLUDE PRICING THAT INCORPORATE NEMA 3R GEAR ENCLOSURES. THIS PRICING SHALL INCLUDE ANY ADJUSTMENTS / EXTENSIONS NEEDED TO ENSURE THAT INCOMING MAIN FEEDERS CAN TERMINATE PROPERLY IN THE NEW GEAR.
- **CONTRACTOR SHALL PROVIDE A FULL FIELD VERIFIED SURVEY OF THE BUILDING'S ELECTRICAL SYSTEM AND A COMPLETED COORDINATION & FAULT CURRENT STUDY FOR ALL THE NEW AND EXISTING ELECTRICAL EQUIPMENT IN THE SCHOOL. THE FIELD SURVEY SHALL BE CONDUCTED PRIOR TO ANY PRICING, AND THE COORDINATION STUDY SHALL BE COMPLETED AND SUBMITTED TO THE ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO ANY ELECTRICAL EQUIPMENT SUBMITTALS.**
  - **a. EXISTING PANEL SCHEDULES, SIZING INFORMATION, AND PANEL LABELS DO NOT PROVIDE SUFFICIENT INFORMATION TO CONSTRUCT A COMPLETE ELECTRICAL SYSTEM. THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE AND SURVEY THE EXISTING ELECTRICAL SYSTEM TO FULLY MAP OUT THE ELECTRICAL SYSTEM FOR THE BUILDING PRIOR TO ANY PRICING.**
  - **b. THE SURVEY AND STUDY SHALL HAVE A LIST OF RECOMMENDATIONS SHOULD ANY ITEMS BE OUT OF COMPLIANCE WITH CURRENT CODES, LIST ANY SAFETY CONCERN, OR GENERAL RECOMMENDATIONS FOR IMPROVEMENT BEYOND THE INFORMATION ON THE DESIGN DOCUMENTS.**
  - **c. FROM THE RESULTS OF THE COORDINATION STUDY, PROVIDE ALL NEW SAFETY TAGGING FOR EACH NEW AND EXISTING PANELBOARDS, SWITCHBOARDS, AND DISTRIBUTION BOARDS.**
  - **d. SUBMITTALS SHALL NOT BE REVIEWED UNTIL THE CONTRACTOR HAS COMPLETED THEIR FIELD SURVEY AND COORDINATION STUDY.**
    - **FOR EXAMPLE, THE EXISTING CIRCUITS SERVING MECHANICAL UNITS ARE UNCLEAR AND MAY EFFECT THE CIRCUIT BREAKERS AND FEEDERS CONNECTING INTO NEW EQUIPMENT.**

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BANDY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL ONE-LINE DIAGRAM

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
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Firm Registration # F-1511
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PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX.

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
E501
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/1/2025 2:45:06 PM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/22301.01_DISD Harry Stone Montessori Acad Reno_ELECT_R23.rvt

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PANELBOARD: F

Mounting: RECESSED
Enclosure: NEMA 1
A.I.C. Rating: MATCH EXISTING
Volts: 120/208 Wye
Phases: 3
Wires: 4
Mains Type: MCB
Frame Rating: 100 A
MCB Rating: 100 A
Supply From:

	Circuit Description	Trip (amps)	Poles	Wire Size	A Apparent Power (volt-amps)		B Apparent Power (volt-amps)		C Apparent Power (volt-amps)		Wire Size	Poles	Trip (amps)	Circuit Description	
1	37 - DOUBLE CONV OVEN	20	1	2#12, 1#12G, 3/4"C	720	765					2#12, 1#12G, 3/4"C	1	20	11 - EXHAUST HOOD &...	2
3	SHUNT TRIP	20	1	--			0	864			2#12, 1#12G, 3/4"C	1	20	1 - MOBILE MILK CABINET	4
5	37 - DOUBLE CONV OVEN	20	1	2#12, 1#12G, 3/4"C					720	876	2#12, 1#12G, 3/4"C	1	20	3 - POS SYSTEM	6
7	SHUNT TRIP	20	1	--	0	1920					2#12, 1#12G, 3/4"C	1	20	8 - MONITOR	8
9	22 - FIRE SUPPRESSION...	20	1	2#12, 1#12G, 3/4"C			180	1800			2#12, 1#12G, 3/4"C	1	20	13 - DOUBLE STEAMER	10
11	8 - MONITOR	20	1	2#10, 1#10G, 3/4"C					1920	0	--	1	20	SHUNT TRIP	12
13	13 - DOUBLE STEAMER	20	1	2#12, 1#12G, 3/4"C	1800	876					2#12, 1#12G, 3/4"C	1	20	3 - POS SYSTEM	14
15	SHUNT TRIP	20	1	--			0	876			2#12, 1#12G, 3/4"C	1	20	3 - POS SYSTEM	16
17	35 - PASS-THRU HEATED...	30	2	4#10, 1#10G, 3/4"C					832	1364	2#12, 1#12G, 3/4"C	1	20	19 - ICE MACHINE	18
19	--	--	--	--	832	3602					4#6, 1#10G, 1"C	3	40	23 - SINK EQUIPMENT	20
21	6 - HOT/FROST COUNTER	20	1	2#12, 1#12G, 3/4"C			1440	3602			--	--	--	--	22
23	6 - HOT/FROST COUNTER	20	1	2#12, 1#12G, 3/4"C					1440	3602	--	--	--	--	24
25	6 - HOT/FROST COUNTER	20	1	2#12, 1#12G, 3/4"C	1440	832					4#10, 1#10G, 3/4"C	2	30	35 - PASS-THRU HEATED...	26
27	18 - MOBILE...	20	1	2#12, 1#12G, 3/4"C			1656	832			--	--	--	--	28
29	SPARE	20	1	--					0	996	2#12, 1#12G, 3/4"C	1	20	36 - PASS-THRU FRIDGE	30
31	SPARE	20	1	--	0	996					2#12, 1#12G, 3/4"C	1	20	36 - PASS-THRU FRIDGE	32
33	SPARE	20	1	--			0	2018			4#10, 1#10G, 3/4"C	2	25	7 - HOT WELL COUNTER	34
35	SPARE	20	1	--					0	2018	--	--	--	--	36
37	SPARE	20	1	--	0	0					--	1	20	SPARE	38
39	SPARE	20	1	--			0	0			--	1	20	SPARE	40
41	SPARE	20	1	--					0	0	--	1	20	SPARE	42
				Total Load:	13783 VA		13268 VA		13768 VA						
				Total Amps:	116 A		111 A		115 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	4785 VA	100.00%	4785 VA		
Kitchen	36034 VA	65.00%	23422 VA	**Total Conn. Load:**	40819 VA
				Total Est. Demand:	28207 VA
				Total Conn. Current:	113 A
				Total Est. Demand Current:	78 A

Notes:
REFER TO THE KITCHEN EQUIPMENT POWER SCHEDULE FOR INDICATIONS ON WHICH CIRCUIT BREAKERS SHALL BE GFCI RATED.

PANELBOARD: G

Mounting: SURFACE
Enclosure: NEMA 1
A.I.C. Rating: 22,000
Volts: 120/208 Wye
Phases: 3
Wires: 4
Mains Type: MCB
Frame Rating: 200 A
MCB Rating: 200 A
Supply From:

	Circuit Description	Trip (amps)	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip (amps)	Circuit Description	
1	UNKNOWN	20	1	--	0	0					--	1	20	UNKNOWN	2
3	UNKNOWN	20	1	--			0	0			--	1	20	UNKNOWN	4
5	UNKNOWN	20	1	--					0	0	--	1	20	UNKNOWN	6
7	UNKNOWN	20	1	--	0	0					--	1	20	UNKNOWN	8
9	UNKNOWN	20	1	--			0	0			--	1	20	UNKNOWN	10
11	UNKNOWN	20	1	--					0	0	--	1	20	UNKNOWN	12
13	UNKNOWN	20	1	--	0	0					--	1	20	UNKNOWN	14
15	UNKNOWN	20	1	--			0	0			--	1	20	UNKNOWN	16
17	UNKNOWN	20	1	--					0	0	--	1	20	UNKNOWN	18
19	UNKNOWN	15	2	--	0	0					--	1	20	UNKNOWN	20
21	--	--	--	--			0	0			--	1	20	UNKNOWN	22
23	EXISTING HAND DRYER	20	1	--					0	0	--	1	20	EXISTING HAND DRYER	24
25	EXISTING HAND DRYER	20	1	--	0	0					--	1	20	EXISTING HAND DRYER	26
27	EXISTING HAND DRYER	20	1	--			0	0			--	1	20	EXISTING HAND DRYER	28
29	EXISTING HAND DRYER	20	1	--					0	0	--	1	20	EXISTING HAND DRYER	30
31	T3 - POS SYSTEM	20	1	2#12, 1#12G, 3/4"C	876	1920					2#12, 1#12G, 3/4"C	1	20	T1 - SELF CONTAINED HAN...	32
33	T2 - REACH-IN...	20	1	2#12, 1#12G, 3/4"C			1260	1656			2#12, 1#12G, 3/4"C	1	20	T4 - MOBILE HEATED...	34
35	T4 - MOBILE HEATED...	20	1	2#12, 1#12G, 3/4"C					1656	1560	2#12, 1#12G, 3/4"C	2	20	T5 - HOT WELL COUNTER	36
37	T6 - REFRIGERATED...	20	1	2#12, 1#12G, 3/4"C	1116	1560					--	--	--	--	38
39	T8 - HOT WELL COUNTER	20	2	2#12, 1#12G, 3/4"C			1560	864			2#12, 1#12G, 3/4"C	1	20	T9 - MOBILE MILK CABINET	40
41	--	--	--	--					1560	0	--	1	20	SPARE	42
43	SPARE	20	1	--	0	0					--	1	20	SPARE	44
45	SPARE	20	1	--			0	0			--	1	20	SPARE	46
47	SPARE	20	1	--					0	0	--	1	20	SPARE	48
49	SPARE	20	1	--	0	0					--	1	20	SPARE	50
51	SPARE	20	1	--			0	0			--	1	20	SPARE	52
53	SPARE	20	1	--					0	0	--	1	20	SPARE	54
55	SPARE	20	1	--	0	0					--	1	20	SPARE	56
57	SPARE	20	1	--			0	0			--	1	20	SPARE	58
59	SPARE	20	1	--					0	0	--	1	20	SPARE	60
				Total Load:	5472 VA		5340 VA		4776 VA						
				Total Amps:	46 A		45 A		40 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	876 VA	100.00%	876 VA		
Kitchen	14712 VA	65.00%	9563 VA	**Total Conn. Load:**	15588 VA
				Total Est. Demand:	10439 VA
				Total Conn. Current:	43 A
				Total Est. Demand Current:	29 A

Notes:
REFER TO KEYED NOTE 4 ON SHEET E201 FOR FURTHER INFORMATON ON THIS NEW PANELBOARD.

PANELBOARD: F2

Mounting: RECESSED
Enclosure: NEMA 1
A.I.C. Rating: 42,000
Volts: 120/208 Wye
Phases: 3
Wires: 4
Mains Type: MCB
Frame Rating: 225 A
MCB Rating: 225 A
Supply From:

	Circuit Description	Trip (amps)	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip (amps)	Circuit Description	
1	FIRE SHUTTER	30	1	2#10, 1#10G, 3/4"C	1656	1920					2#10, 1#10G, 3/4"C	1	20	38 - TABLE RECEPT	2
3	38 - TABLE RECEPT	20	1	2#10, 1#10G, 3/4"C			1920	1224			2#10, 1#10G, 3/4"C	1	20	33 - INSECT FAN	4
5	21 - WASHER/DRYER	30	2	2#10, 1#10G, 3/4"C					2184	1189	4#12, 1#12G, 3/4"C	3	15	31 - WALK IN...	6
7	--	--	--	--	2184	1189					--	--	--	--	8
9	32 - WALK IN...	40	3	4#8, 1#10G, 1"C			2810	1189			--	--	--	--	10
11	--	--	--	--					2810	900	2#12, 1#12G, 3/4"C	1	20	29 - WALK IN FREEZER...	12
13	--	--	--	--	2810	170					2#12, 1#12G, 3/4"C	1	20	28 - WALK IN FREEZER...	14
15	30 - WALK-IN FREEZER...	20	2	2#12, 1#12G, 3/4"C			1425	600			2#12, 1#12G, 3/4"C	1	20	26 - WALK IN DOOR JAMB...	16
17	--	--	--	--					1425	180	2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	18
19	27 - WALK IN COOLER COIL	20	1	2#12, 1#12G, 3/4"C	360	180					2#12, 1#12G, 3/4"C	1	20	E1 - KITCHEN CONV	20
21	25 - WALK IN COOLER...	20	1	2#12, 1#12G, 3/4"C			340	180			2#12, 1#12G, 3/4"C	1	20	E1 - KITCHEN CONV	22
23	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C					180	180	2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	24
25	D-014 - OFFICE	20	1	2#12, 1#12G, 3/4"C	720	180					2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	26
27	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C			180	180			2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	28
29	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C					180	180	2#12, 1#12G, 3/4"C	1	20	E1 - KITCHEN CONV	30
31	E2 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C	180	180					2#12, 1#12G, 3/4"C	1	20	E1 - KITCHEN CONV	32
33	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C			180	180			2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	34
35	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C					180	180	2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	36
37	E1 - KITCHEN CONV	20	1	2#12, 1#12G, 3/4"C	180	180					2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	38
39	35 - PASS-THRU HEATED...	30	2	4#10, 1#10G, 3/4"C			832	180			2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	40
41	--	--	--	--					832	180	2#12, 1#12G, 3/4"C	1	20	E2 - KITCHEN CONV	42
43	10 - HOT WELL COUNTER	20	2	4#12, 1#12G, 3/4"C	1248	1920					2#8, 1#8G, 3/4"C	1	20	8 - MONITOR	44
45	--	--	--	--			1248	996			2#12, 1#12G, 3/4"C	1	20	36 - PASS-THRU FRIDGE	46
47	1 - MOBILE MILK CABINET	20	1	2#12, 1#12G, 3/4"C					864	180	2#12, 1#12G, 3/4"C	1	20	D-009A TOILET - RECEPT	48
49	34 - HYDROVECTION OVEN	20	1	2#12, 1#12G, 3/4"C	1200	1200					2#12, 1#12G, 3/4"C	1	20	34 - HYDROVECTION OVEN	50
51	SHUNT TRIP	20	1	--			0	0			--	1	20	SHUNT TRIP	52
53	16 - TILT SKILLET	60	3	4#4, 1#10G,...					5164	3500	2#6, 1#10G, 3/4"C	2	45	17 - INDUCTION COOKTOP	54
55	--	--	--	--	5164	3500					--	--	--	--	56
57	--	--	--	--			5164	0			--	1	20	SHUNT TRIP	58
59	SHUNT TRIP	20	1	--					0	3603	4#8, 1#10G, 1"C	3	40	15 - KETTLE	60
61	EF-1	20	1	2#10, 1#10G, 3/4"C	696	3603					--	--	--	--	62
63	EF-2	20	1	2#10, 1#10G, 3/4"C			864	3603			--	--	--	--	64
65	EF-3	20	1	2#12, 1#12G, 3/4"C					864	0	--	1	20	SHUNT TRIP	66
67	DEF-1	20	1	2#12, 1#12G, 3/4"C	864	384					4#12, #12G, 3/4"C	3	20	24 - POT/PAN COLLECTOR\	68
69	SPARE	20	1	--			0	384			--	--	--	--	70
71	SPARE	20	1	--					0	384	--	--	--	--	72
73	SPARE	20	1	--	0	0					--	1	20	SPARE	74
75	SPARE	20	1	--			0	0			--	1	20	SPARE	76
77	SPARE	20	1	--					0	0	--	1	20	SPARE	78
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81	SPARE	20	1	--			0	0			--	1	20	SPARE	82
83	SPARE	20	1	--					0	0	--	1	20	SPARE	84
85	SPARE	20	1	--	0	0					--	1	20	SPARE	86
87	SPARE	20	1	--			0	0			--	1	20	SPARE	88
89	SPARE	20	1	--					0	0	--	1	20	SPARE	90
91	SPARE	20	1	--	0	0					--	1	20	SPARE	92
93	SPARE	20	1	--			0	0			--	1	20	SPARE	94
95	SPARE	20	1	--					0	0	--	1	20	SPARE	96
97	SPARE	20	1	--	0	0					--	1	20	SPARE	98
99	SPARE	20	1	--			0	0			--	1	20	SPARE	100
101	SPARE	20	1	--					0	0	--	1	20	SPARE	102
103	SPARE	20	1	--	0	0					--	1	20	SPARE	104
105	SPARE	20	1	--			0	0			--	1	20	SPARE	106
107	SPARE	20	1	--					0	0	--	1	20	SPARE	108
109	SPARE	20	1	--	0	0					--	1	20	SPARE	110
111	SPARE	20	1	--			0	0			--	1	20	SPARE	112
113	SPARE	20	1	--					0	0	--	1	20	SPARE	114
115	SPARE	20	1	--	0	0					--	1	20	SPARE	116
117	SPARE	20	1	--			0	0			--	1	20	SPARE	118
119	SPARE	20	1	--					0	0	--	1	20	SPARE	120
121	SPARE	20	1	--	0	0					--	1	20	SPARE	122
123	SPARE	20	1	--			0	0			--	1	20	SPARE	124
125	SPARE	20	1	--					0	0	--	1	20	SPARE	126
				Total Load:	31868 VA		23679 VA		25339 VA						
				Total Amps:	268 A		197 A		213 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	16941 VA	100.00%	16941 VA		
Power	1920 VA	100.00%	1920 VA	**Total Conn. Load:**	80886 VA
Receptacle	5268 VA	100.00%	5268 VA	**Total Est. Demand:**	61021 VA
Kitchen	56756 VA	65.00%	36892 VA	**Total Conn. Current:**	225 A
				Total Est. Demand Current:	169 A

Notes:
REFER TO THE KITCHEN EQUIPMENT POWER SCHEDULE FOR INDICATIONS ON WHICH CIRCUIT BREAKERS SHALL BE GFCI RATED.

KEY PLAN

#	DATE	CHANGE DESCRIPTION

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com
PMI JOB NO. 22102.002
PROJECT MGR. C.MARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX.

DALLAS INDEPENDENT SCHOOL DISTRICT — HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

PANEL SCHEDULES

STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01
E502
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 12/12/2025 2:45:07 PM
FILE INFO: J:\Abbeark Docs\22301\01_DISD Harry Stone Montessori Academy Reno - R22301\01_DISD Harry Stone Montessori Acad Reno_ELECT_R23.rvt

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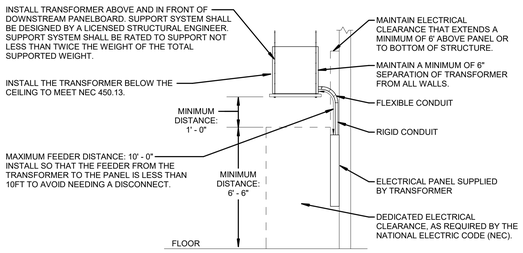
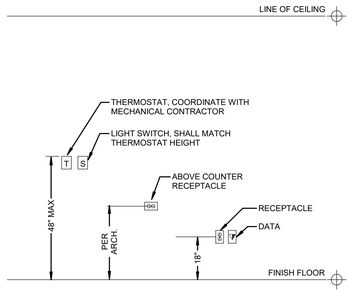
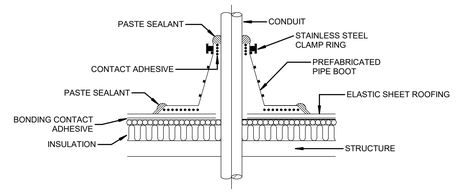


1 SUSPENDED TRANSFORMER DETAIL
NOT TO SCALE

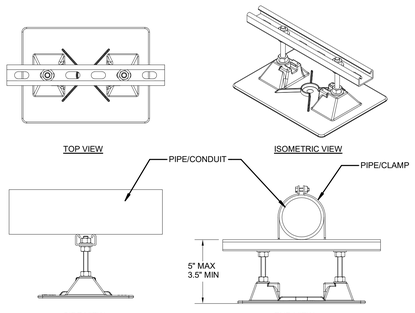


2 TYPICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



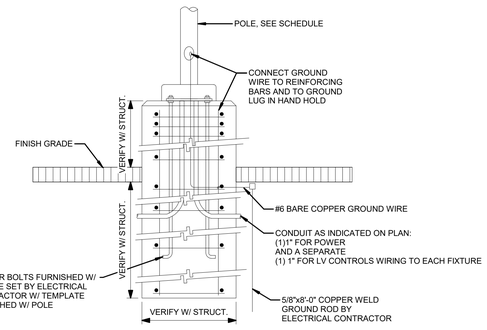
COORDINATE WITH ROOFING CONTRACTOR AND REQUIREMENTS OF ROOFING SPEC. FLASHING ON METAL ROOF BY ROOFING CONTRACTOR.

3 CONDUIT ROOF PENETRATION DETAIL
NOT TO SCALE



ADDITIONAL INFORMATION:
-ADJUSTABLE HEIGHT UP TO 5"
-SPACING NOT TO EXCEED 10' ON CENTER.
-ALL METAL PARTS TO BE EITHER STAINLESS STEEL OR HOT-DIP GALVANIZED

4 CONDUIT SUPPORT ON ROOF
NOT TO SCALE



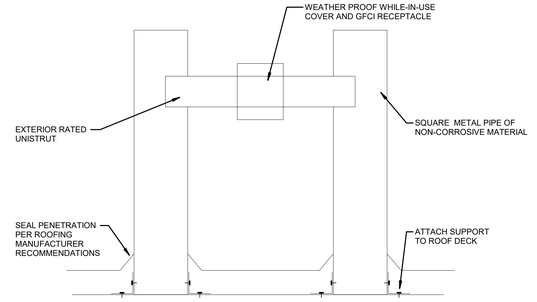
NOTES:

A. CONTRACTOR SHALL COORDINATE EXACT LIGHTING POLE LOCATIONS WITH NEW LANDSCAPE DRAWINGS PRIOR TO INSTALLATION. SHIFT LIGHT POLE FIXTURES AND/OR TREE TO AVOID CONFLICTS.

B. CONTRACTOR SHALL VERIFY CONCRETE DEPTH AND STEEL REQUIREMENTS WITH STRUCTURAL DRAWINGS.

C. DETAIL INDICATES ELECTRICAL REQUIREMENTS ONLY, REFER TO ARCHITECTS DETAIL FOR ADDITIONAL INFORMATION.

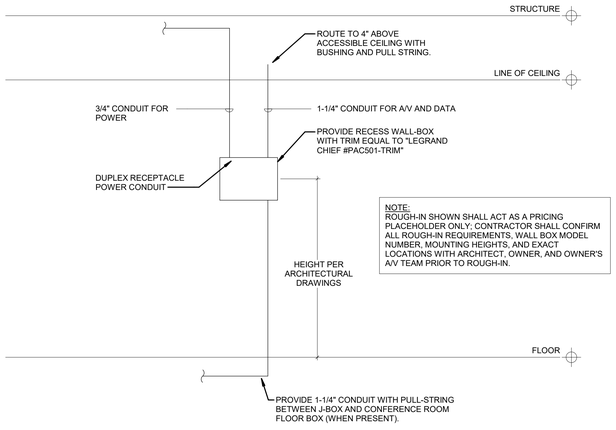
5 POLE BASE DETAIL
NOT TO SCALE



NOTES:

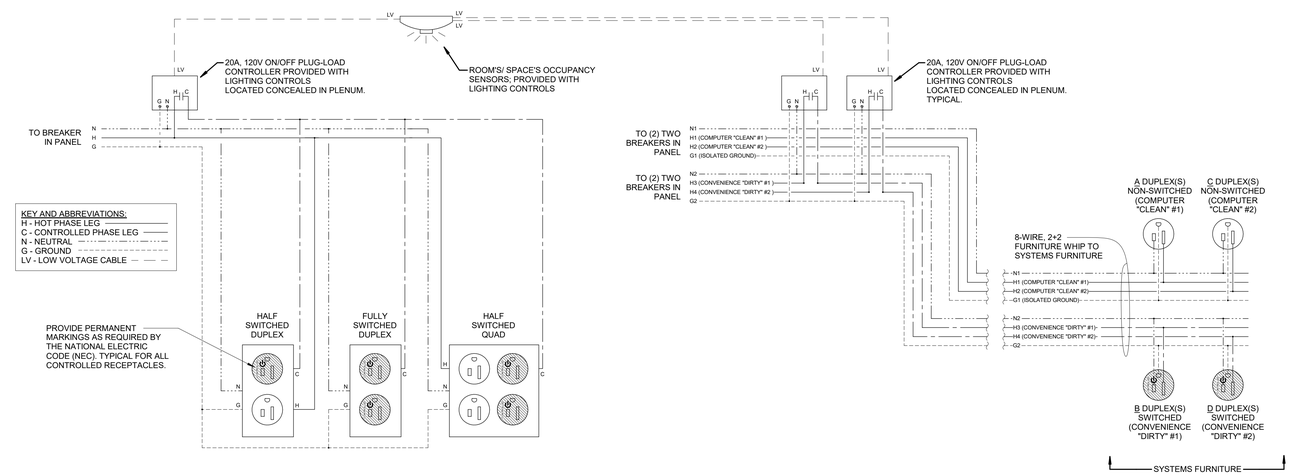
A. CONTRACTOR SHALL COORDINATE EXACT ROOF RECEPTACLE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT DIMENSION OFF OF ELECTRICAL PLANS.
B. DETAIL INDICATES ELECTRICAL REQUIREMENTS ONLY. REFER TO ARCHITECTURAL DETAILS AND ROOF MANUFACTURER REQUIREMENTS FOR ADDITIONAL INFORMATION.
C. DO NOT MOUNT ROOF RECEPTACLES DIRECTLY TO PARAPET WALLS.
D. DO NOT MOUNT ROOF RECEPTACLES WITHIN 10 FT OF THE EDGE OF THE ROOF. IF RECEPTACLES ARE INSTALLED WITHIN 10FT OF THE EDGE OF THE ROOF, COORDINATE WITH ARCHITECT ON PERMANENT FALL PROTECTION REQUIREMENTS.
E. CONTRACTOR SHALL ALSO REFER TO THE "CONDUIT ROOF PENETRATION DETAIL" AND "CONDUIT SUPPORT ON ROOF DETAIL" FOR MORE INFORMATION.
F. A PREFABRICATED ROOF RECEPTACLE PEDESTAL ASSEMBLY IS ALSO AN ACCEPTABLE SOLUTION FOR ALL ROOF RECEPTACLES IN LIEU OF THE FIELD BUILT UP DETAIL ABOVE. BASIS OF DESIGN FOR A PREFABRICATED PEDESTAL: MAPA PRODUCTS "MPX-20-G-36/12-D-SA 36 INCH UTILITY PEDESTAL WITH WEATHER PROOF WHILE-IN-USE GFCI RECEPTACLE AND ROOF DECK FLANGE" OR EQUAL. IF USING A PREFABRICATED PEDESTAL, ALL OFF THE NOTES ABOVE STILL APPLY. ALSO INSTALL PER PEDESTAL MANUFACTURER INSTRUCTIONS, ARCHITECT'S REQUIREMENTS, ROOF MANUFACTURER REQUIREMENTS, AND ALL APPLICABLE CODE REQUIREMENTS.

6 ROOF RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



NOTE:
ROUGH-IN SHOWN SHALL ACT AS A PRICING PLACEHOLDER ONLY; CONTRACTOR SHALL CONFIRM ALL ROUGH-IN REQUIREMENTS, WALL BOX MODEL NUMBER, MOUNTING HEIGHTS, AND EXACT LOCATIONS WITH ARCHITECT, OWNER, AND OWNER'S A/V TEAM PRIOR TO ROUGH-IN.

7 TV ROUGH-IN DETAIL - LARGE BACKBOX
NOT TO SCALE



NOTES:

A. 50% OF RECEPTACLES (OTHER THAN THOSE REQUIRING CONTINUOUS OPERATION) ARE REQUIRED TO BE CONTROLLED AUTO OFF WITHIN 20 MINUTE TIME OUT.
   A. APPLIES IN:
      A. ENCLOSED OFFICES
      B. CONFERENCE ROOMS PRIMARILY FOR COPY/PRINT FUNCTIONS
      C. BREAKROOMS
      D. CLASSROOMS
      E. MODULAR WORKSTATIONS (SYSTEM FURNITURE DIRTY CIRCUIT'S)

B. IF AN ENTIRE DUPLEX IS NON-CONTROLLED, THERE MUST BE A CONTROLLED DUPLEX WITHIN 12" OF THE NON-CONTROLLED DUPLEX.

C. SYSTEMS FURNITURE REQUIRE A NON-CONTROLLED RECEPTACLE WITHIN 72" OF A CONTROLLED RECEPTACLE.

D. CONTINUOUS OPERATION ARE EXEMPTED FROM AUTOMATIC CONTROL RECEPTACLES AND SHALL BE NOTED ON THE PLANS AS EXEMPT. EXAMPLES OF CONTINUOUS OPERATION ARE INCLUDING BUT NOT LIMITED TO:
   A. PC
   B. FRIDGE
   C. ICE MAKER
   D. SECURITY POWER
   E. COPIERS

E. AUTOMATIC RECEPTACLES SHALL BE TIED INTO THE ROOMS SENSOR. RECEPTACLES SHALL BE AUTO-ON, AND AUTO-OFF WITHIN 20 MINUTES.

8 SWITCHED RECEPTACLE WIRING DIAGRAM
NOT TO SCALE

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT
HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL DETAILS

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

	12.02.2025
	R22301.01
	E601
	100% CD'S SUBMITTAL

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Mechanical - Electrical Engineers
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www.purdy-mcguire.com
PM: JOE NG
PROJECT MGR.: B.JARRETT
MECHANICAL: C. RICCOTY
PLUMBING: R. COTTRELL
ELECTRICAL: C.ZAKULINSKI
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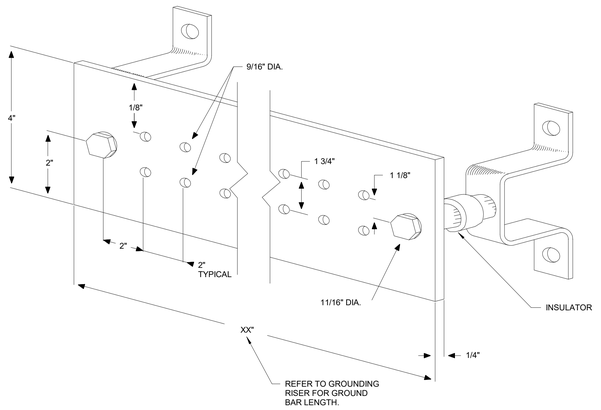
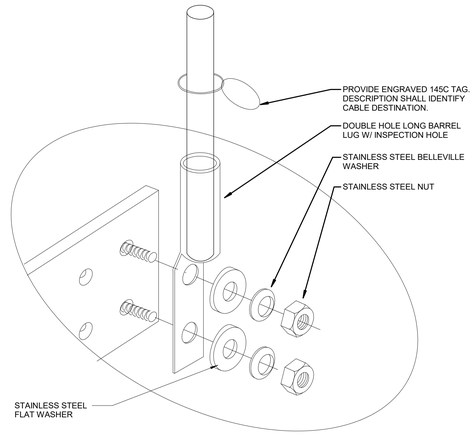
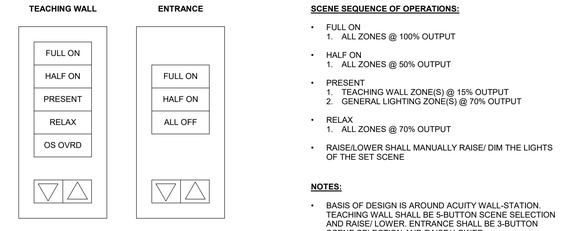


1 GROUND BUS BAR
NOT TO SCALE



NOTES:
1. ALL CONNECTIONS TO BE DOUBLE COMPRESSION (CRIMP) TYPE. NO MECHANICAL CONNECTIONS, MINIMUM 4 CRIMPS FOR DOUBLE COMPRESSION FITTING.

2 GROUND BUS BAR CONNECTION
NOT TO SCALE



SCENE SEQUENCE OF OPERATIONS:

- FULL ON
  1. ALL ZONES @ 100% OUTPUT
- HALF ON
  1. ALL ZONES @ 50% OUTPUT
- PRESENT
  1. TEACHING WALL ZONE(S) @ 15% OUTPUT
  2. GENERAL LIGHTING ZONE(S) @ 70% OUTPUT
- RELAX
  1. ALL ZONES @ 70% OUTPUT
- RAISE/LOWER SHALL MANUALLY RAISE/ DIM THE LIGHTS OF THE SET SCENE

NOTES:

- BASIS OF DESIGN IS AROUND ACUITY WALL-STATION. TEACHING WALL SHALL BE 5-BUTTON SCENE SELECTION AND RAISE/ LOWER. ENTRANCE SHALL BE 3-BUTTON SCENE SELECTION AND RAISE/ LOWER.
- 'OS OVRD' + RAISE/LOWER SHALL BE A MANUAL OVERRIDE OF THE OCCUPANCY SENSOR TIME-OUT.
- MANUFACTURER SHALL PROVIDE WALL-STATION WITH PERMANENT ENGRAVINGS.
- EXACT LIGHT LEVELS SHALL BE SET IN THE FIELD WITH THE OWNER FOR EACH OF THE TYPICAL SCENES.

4 CLASSROOM LIGHTING CONTROL KEYPAD DETAIL
NOT TO SCALE

Electrical Equipment Extended Warranty Schedule

Spec Section	Product	Extended Warranty Description
Division 26 & 28 - Electrical		
260519	Electric heating cables	2 yr parts and labor
260913	Power monitoring and control	2 years of manufacturer support and software upgrades
260943	Network lighting controls	2 years parts and labor for all components; 8 years parts and labor for transient voltage surges; 10 years parts and labor for electrically held relays
262713	Electrical metering	2 years parts and labor for all components.
265100	Interior lighting	5 years parts and labor for all components; 5 years parts and labor for emergency battery packs; LED Lumen modules shall be considered defective of 15% or more of the diodes have failed.
265600	Exterior lighting	5 years parts and labor for all components; 5 years parts and labor for emergency battery packs; LED Lumen modules shall be considered defective of 15% or more of the diodes have failed.
283111	Fire alarm system	2 years of manufacturer support and software upgrades

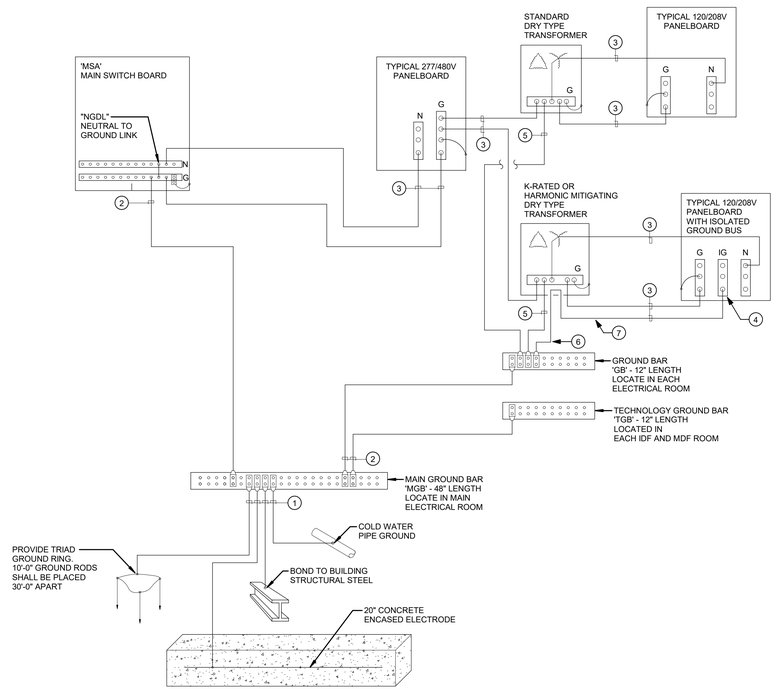
Notes:

1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

5 ELECTRICAL EQUIPMENT EXTENDED WARRANTY SCHEDULE
NOT TO SCALE

GROUNDING RISER KEYED NOTES:

1. #2 SOLID, BARE, TINNED COPPER
2. #4/0 IN 3/4" PVC CONDUIT
3. CONDUCTOR PER ONE-LINE DIAGRAM
4. FOR PANELS SERVING ISOLATED GROUND 'IG' CIRCUITS, PROVIDE A PANELBOARD ISOLATED GROUND BUS BAR TO TERMINATE ISOLATED GROUND CONDUCTORS FOR EACH CIRCUIT.
5. SIZE PER NEC TABLE 250.66. ROUTE TO NEAREST 'GB'
6. INSULATED GROUND CONDUCTOR ROUTED TO PROVIDE ISOLATED GROUNDING PATH. SIZE TO MATCH SEPARATELY DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR FOR TRANSFORMER AND CONNECT AT SAME 'GB'.
7. THE INSULATED GROUND CONDUCTOR MAY BE ROUTED IN A SEPARATE RACEWAY FROM THE CIRCUIT CONDUCTORS DIRECTLY TO THE PANELBOARD ISOLATED GROUND BUS BAR, OR WITH THE CIRCUIT CONDUCTORS IN THE SAME RACEWAY PER NEC 250.96(B), 250.146(D), AND 250.148. THE BASIS OF DESIGN SHOWN ON THE ONE LINE DIAGRAM, FEEDER SCHEDULE, AND GROUNDING RISER DIAGRAM INDICATES THE INSULATED GROUND CONDUCTOR ROUTING FROM THE ELECTRICAL ROOM GROUND BAR 'GB' TO THE TRANSFORMER, NOT TERMINATED WITHIN THE TRANSFORMER, THEN ROUTED WITH THE CIRCUIT CONDUCTORS IN THE SAME RACEWAY TO CONNECT TO THE PANELBOARD ISOLATED GROUND BUS BAR. HOWEVER, THE ENGINEER TAKES NO EXCEPTIONS BETWEEN EITHER OPTION AS LONG AS THE CONTRACTOR FOLLOWS THE NATIONAL ELECTRIC CODE.



3 GROUND RISER DIAGRAM
NOT TO SCALE

KEY PLAN

#	DATE	CHANGE DESCRIPTION

DALLAS INDEPENDENT SCHOOL DISTRICT — BARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:

ELECTRICAL DETAILS

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO.	22102.002
PROJECT MGR.	C.BARTON, B.JARRETT
MECHANICAL	L. PECOY
PLUMBING	R. COTTRELL
ELECTRICAL	C.ZAMULINSKI

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STATE OF TEXAS — BRANDON S. JARRETT — 108664 — LICENSED PROFESSIONAL ENGINEER — 12-2-25

12.02.2025
R22301.01

E602

100% CD'S SUBMITTAL

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LIGHT FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	VOLT	INPUT WATTS	DIMMING	REMARKS
A	LED BACK LIT PANEL	LITHONIA	2BLT4 40L ADP GZ10 LP840	INTEGRAL LED 4000K	277 V	32 W	0-10V	
B	LED BACK LIT PANEL	LITHONIA	2BLT2 40L ADP GZ10 LP840	LED 4000K	277 V	27 W	0-10V	
EM	EMERGENCY BUG-EYE FIXTURE. SELF TESTING, 90 MIN INTEGRAL BATTERY. CONFIRM FINISH WITH ARCHITECT PRIOR TO SUBMITTALS.	LITHONIA	LITHONIA ELM6L-[COLOR PER ARCH]-UVOLT-LTP-SDRT	LED	277 V	11 W		SEE NOTE 3
G	4" APERTURE ROUND RECESSED DOWNLIGHT	LITHONIA	LDN4 40/15 L04AR LSS MVOLT GZ10 TRW	LED 4000K	277 V	18 W	0-10V	
SA	PARKING LOT POLE HEAD ON NEW POLE	LITHONIA	DSX1 P8 40K 80CRI T3M MVOLT SPA / SNS 22 40 11 AB - DM19 DARK BRONZE	INTEGRAL LED 4000K	277 V	216 W	0-10V	SEE NOTE 5. POLE BASE SHALL BE 3' TALL ABOVE GRADE.
SA-1	PARKING LOT POLE HEAD ON EXISTING POLE	LITHONIA	DSX1 P8 40K 80CRI T3M MVOLT [MOUNT] [FINISH] DM19AS@ 25' MH	INTEGRAL LED 4000K	277 V	216 W	0-10V	SEE NOTE 5. FIELD VERIFY MOUNTING WITH EXISTING POLE TYPE
X	CAST ALUMINUM HIGH ABUSE EXIT SIGN	EELP	CAHAU-X-R-W-EM	LED	277 V	5 W	NO	SEE NOTE 2

PART OF ALTERNATE E1 (SA)

GENERAL NOTES:
- A CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES.
- B CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).
- C CONTRACTOR SHALL COORDINATE FINISH, MOUNTING HEIGHTS (IF SUSPENDED), LENSING, AND OTHER AESTHETIC FEATURES OF ALL FIXTURES WITH ARCHITECT.
- D CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR AN ADDITIONAL 5 EXIT SIGNS OR 10%, WHICHEVER IS GREATER, AS ATTIC STOCK FOR FUTURE USE. ATTIC STOCK EXIT SIGN SPECIFICATION SHALL MATCH ALL THE OTHER EXIT SIGNS ON THIS PROJECT, AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.

NOTES:
1. PROVIDE CONTINUOUS LENGTH AS SHOWN ON PLANS. CONFIRM EXACT LENGTH WITH ARCHITECTURAL DETAILS AND ARCHITECT. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
2. PROVIDE NUMBER OF FACES AND CHEVRONS FOR EACH EXIT SIGN PER ELECTRICAL LIGHTING PLANS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR CEILING TYPES AT EACH EXIT SIGN LOCATION.
3. COORDINATE MOUNTING, LENGTH, AND OTHER DETAILS WITH ARCHITECT AS FIXTURE IS INCORPORATED INTO ARCHITECTURAL FEATURE.
4. FIXTURE REQUIRES REMOTE TRANSFORMER/ DRIVER. CONTRACTOR SHALL SIZE AND SPACE REMOTE TRANSFORMERS/ DRIVERS TO ELIMINATE VOLTAGE DROP. TRANSFORMERS/ DRIVERS SHALL BE VISUALLY AND ACOUSTICALLY CONCEALED.

MECHANICAL EQUIPMENT POWER SCHEDULE

EQUIPMENT DESIGNATION	ELECTRICAL INFORMATION: ELECTRIC LOAD: CURRENT (AMPS)	LOAD (WATTS)	OTHER MISCELLANEOUS ELECTRIC LOAD INFORMATION	VOLT	PHASE	OCPD RATING	PANEL	CIRCUIT NO.	FEEDER	DISCONNECT: TYPE	SIZE	POLES	FUSE	REMARKS
AC-1 / CU-1	22 A	4576 VA	22 MCA, 25 MOCP	208 V	1	25 A	AD	1,3	2#10, 1#10G, 3/4"C	HEAVY DUTY / NEMA 3R	30	1	NF	SEE NOTE 1
AHU-7	9 A	7815 VA	20 MOCP, 9.4 MCA, 7.5 HP	480 V	3	20 A		<unnamed>	2#12, 1#12G, 3/4"C	FACTORY PROVIDED	-	-	-	
BH-1/BH-2	4 A	1466 VA	733 WATTS EACH	208 V	3	20 A	AD	7,9,11	2#12, 1#12G, 3/4"C	DISCONNECT SWITCH AT EACH UNIT	20	1	NF	
CHP-1	27 A	22448 VA	20 HP	480 V	3	60 A	DPM	1	4#4, 1#10G, 1-1/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2
CHP-2	0 A	0 VA	20 HP	480 V	3	60 A	DPM	2	4#4, 1#10G, 1-1/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2. N+1 REDUNDANT
CWP-1	27 A	22448 VA	20 HP	480 V	3	60 A	DPM	3	4#4, 1#10G, 1-1/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2
CWP-2	0 A	0 VA	20 HP	480 V	3	60 A	DPM	4	4#4, 1#10G, 1-1/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2. N+1 REDUNDANT
DEF-1	7 A	864 VA	1/3 HP	120 V	1	20 A	F2	67	2#12, 1#12G, 3/4"C	HEAVY DUTY / NEMA 3R	20	1	NF	
DOAS - 1	28 A	23279 VA	28 MCA, 35 MOCP	480 V	3	35 A		<unnamed>	4#6, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
EF-2	7 A	864 VA	0.13 HP	120 V	1	20 A	F2	63	2#10, 1#10G, 3/4"C	HEAVY DUTY / NEMA 3R	20	1	NF	
EF-3	7 A	864 VA	1/3 HP	120 V	1	20 A	F2	65	2#12, 1#12G, 3/4"C	HEAVY DUTY / NEMA 3R	20	1	NF	
EF-A	0 A	0 VA	1/20 HP	120 V	1	20 A		<unnamed>	2#12, 1#12G, 3/4"C	HEAVY DUTY / NEMA 3R	20	1	NF	
GWH-1	5 A	600 VA	5A FLA	120 V	1	20 A	P	1	2#12, 1#12G, 3/4"C	HEAVY DUTY	20	1	NF	
HWP-1	8 A	6319 VA	5 HP	480 V	3	20 A		<unnamed>	4#12, 1#12G, 3/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2
HWP-2	0 A	0 VA	5 HP	480 V	3	20 A		<unnamed>	4#12, 1#12G, 3/4"C	LOCATED IN CONTROL PANEL	-	-	-	SEE NOTE 2. N+1 REDUNDANT
KEF-1	8 A	6319 VA	5 HP	480 V	3	20 A	DPA	1	4#12, 1#12G, 3/4"C	HEAVY DUTY / NEMA 3R	20	3	NF	
RP-1	2 A	180 VA	45W	120 V	1	20 A	P	3	2#12, 1#12G, 3/4"C	RECEPTACLE	-	-	-	SEE NOTE 3
RTU-1	22 A	18706 VA	22 MCA, 25 MOCP	480 V	3	25 A	AC	25,27,29	4#8, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
RTU-2	22 A	18706 VA	22 MCA, 25 MOCP	480 V	3	25 A	AC	20,22,24	4#8, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
RTU-4	45 A	37412 VA	45 MCA, 50 MOCP	480 V	3	50 A		<unnamed>	4#6, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
RTU-5	45 A	37412 VA	45 MCA, 50 MOCP	480 V	3	50 A		<unnamed>	4#6, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
RTU-6	45 A	37412 VA	45 MCA, 50 MOCP	480 V	3	50 A		<unnamed>	4#6, 1#10G, 1"C	FACTORY PROVIDED	-	-	-	
UH-1	42 A	15000 VA	15 KW	208 V	3	60 A		<unnamed>	4#4, #10G, 1-1/4"C	FACTORY PROVIDED	-	-	-	

GENERAL NOTES (APPLIES TO ALL):
- A REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
- B DISCONNECT SWITCHES PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL MATCH THE AIC VALVE OF THE UPSTREAM ELECTRICAL PANEL.
- C COORDINATE WITH MECHANICAL REGARDING RESPONSIBILITY OF MOTOR STARTERS, SO THAT DUPLICATE EQUIPMENT IS NOT PURCHASED.
- D WHERE VARIABLE FREQUENCY DRIVES (VFDS) AND SERVICE DISCONNECTS ARE SEPARATED, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR CONNECTION TO VFD SAFETY INTERLOCK. ELECTRICAL CONTRACTOR SHALL CONNECT DISCONNECT SWITCH AUXILIARY CONTACT TO THE ASSOCIATED VFD SAFETY INTERLOCK VIA 3/4" CONDUIT WITH 2#12 AND #12G STRANDED THHN CONDUCTORS.

NOTES:
1. INDOOR AC UNIT IS POWERED FROM OUTDOOR CU UNIT. ELECTRICAL CONTRACTOR SHALL ROUTE CONDUCTORS AND CONDUIT FROM OUTDOOR CU UNIT TO CORRESPONDING INDOOR AC UNIT. COORDINATE CONDUCTOR AND CONDUIT SIZE WITH EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.
2. MECHANICAL CONTRACTOR TO PROVIDE VARIABLE FREQUENCY DRIVE (VFD) . ELECTRICAL CONTRACTOR TO INSTALL.
3. PROVIDE POWER TO LEAK DETECTION AND SOLENOID VALVE FOR WATER HEATER FROM SAME CIRCUIT AS RECIRCULATION PUMP. CIRCUIT LEAK DETECTION AND SOLENOID VALVE UPSTREAM OF MOTOR RATED SWITCH FOR RECIRCULATION PUMP.
4. FURNISH AND CONNECT DUCT MOUNTED SMOKE DETECTOR (INSTALLED BY MECHANICAL) TO FIRE ALARM PANEL.

KITCHEN EQUIPMENT POWER SCHEDULE

EQUIPMENT DESIGNATION	ELECTRICAL LOAD: CURRENT (AMPS)	LOAD (WATTS)	OTHER MISCELLANEOUS ELECTRICAL LOAD INFO	VOLT	PHASE	OCPD RATING	PANEL	CIRCUIT NO.	FEEDER	CONNECTION TYPE	GFCI REQUIRED	SHUNT TRIP REQUIRED	DISCONNECT: TYPE	SIZE	POLES	FUSE	REMARKS
1 - MOBILE MILK CABINET	7 A	864 VA	7.2 A	120 V	1	20 A	F	4	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE	YES, CIRCUIT BREAKER	-	-	-	-	-	COORDINATION LOCATION AND ROUTING OF ELECTRICAL CONNECTION WITH MANUFACTURER PRIOR TO ROUGH-IN.
1 - MOBILE MILK CABINET	7 A	864 VA	7.2 A	120 V	1	20 A	F2	47	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE	YES, CIRCUIT BREAKER	-	-	-	-	-	
3 - POS SYSTEM	7 A	876 VA	7.3 A	120 V	1	20 A	F	6	2#12, 1#12G, 3/4"C	QUADRUPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
3 - POS SYSTEM	7 A	876 VA	7.3 A	120 V	1	20 A	F	16	2#12, 1#12G, 3/4"C	QUADRUPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
3 - POS SYSTEM	7 A	876 VA	7.3 A	120 V	1	20 A	F	14	2#12, 1#12G, 3/4"C	QUADRUPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
6 - HOT/FROST COUNTER	12 A	1440 VA	8.3 A	120 V	1	20 A	F	21	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
6 - HOT/FROST COUNTER	12 A	1440 VA	8.3 A	120 V	1	20 A	F	23	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
6 - HOT/FROST COUNTER	12 A	1440 VA	8.3 A	120 V	1	20 A	F	25	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
7 - HOT WELL COUNTER	19 A	4035 VA	19.4 A	208 V	1	25 A	F	34,36	4#10, 1#10G, 3/4"C	L14-30P, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
8 - MONITOR	16 A	1920 VA	16 A	120 V	1	20 A	F	8	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
8 - MONITOR	16 A	1920 VA	16 A	120 V	1	20 A	F	11	2#10, 1#10G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
8 - MONITOR	16 A	1920 VA	16 A	120 V	1	20 A	F2	44	2#8, 1#8G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
10 - HOT WELL COUNTER	12 A	2496 VA	12 A	208 V	1	20 A	F2	43,45	4#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	COORDINATE WITH MANUFACTURER FOR NEMA PLUG RATING
11 - EXHAUST HOOD & LIGHTS	6 A	765 VA	765 W	120 V	1	20 A	F	2	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE. BRANCH TO CONNECTION POINT TO PREWIRED JBOX ON TOP OF VENTILATOR, SWITCHES TO LIGHTS & FANS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND CONNECTED TO CIRCUIT.	-	-	-	-	-	-	
13 - DOUBLE STEAMER	15 A	1800 VA	15 A	120 V	1	20 A	F	10	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
13 - DOUBLE STEAMER	15 A	1800 VA	15 A	120 V	1	20 A	F	13	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, 48" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
15 - KETTLE	30 A	10808 VA	30 A	208 V	3	40 A	F2	60,62,64	4#8, 1#10G, 1"C	HARDWIRED, 18" AFF	-	YES	-	-	-	-	SEE NOTE 2
16 - TILT SKILLET	43 A	15491 VA	43 A	208 V	3	60 A	F2	53,55,57	4#4, 1#10G, 1-1/4"C	HARDWIRED, 18" AFF	-	YES	-	-	-	-	SEE NOTE 2
17 - INDUCTION COOKTOP	34 A	7000 VA	7 KW	208 V	1	45 A	F2	54,56	2#6, 1#10G, 3/4"C	SIMPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2. COORDINATE WITH MANUFACTURER FOR NEMA PLUG RATING
18 - MOBILE PROOFER/HEATED CABINET	14 A	1656 VA	13.8 A	120 V	1	20 A	F	27	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
19 - ICE MACHINE	11 A	1364 VA	11.4 A	120 V	1	20 A	F	18	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, 5'-0" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	REFER TO KEYED NOTE 8 ON SHEET E401
21 - WASHER/DRYER	21 A	4368 VA	21.0 A	208 V	1	30 A	F2	5,7	2#10, 1#10G, 3/4"C	SIMPLEX RECEPTACLE, 30" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	COORDINATE WITH MANUFACTURER FOR NEMA PLUG RATING
22 - FIRE SUPPRESSION SYSTEM CONTROL	2 A	180 VA		120 V	1	20 A	F	9	2#12, 1#12G, 3/4"C	HARDWIRED	-	-	-	-	-	-	REFER TO THE FOOD SERVICE DRAWINGS FOR FURTHER INFORMATION.
23 - SINK EQUIPMENT	30 A	10807 VA	29.9 A, 2 HP & 7KW	208 V	3	40 A	F	20,22,24	4#8, 1#10G, 1"C	HARDWIRED, 18" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	LOCKABLE TYPE CIRCUIT BREAKER REQUIRED
24 - POT/PAN COLLECTOR\	3 A	1153 VA	3.2 A	208 V	3	20 A	F2	68,70,72	4#12, #12G, 3/4"C	HARDWIRED, 18" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	LOCKABLE TYPE CIRCUIT BREAKER REQUIRED
25 - WALK IN COOLER LIGHTS	3 A	340 VA	340 W	120 V	1	20 A	F2	21	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
26 - WALK IN DOOR JAMB HEATER	5 A	600 VA	600 W	120 V	1	20 A	F2	16	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
27 - WALK IN COOLER COIL	3 A	360 VA	3 A	120 V	1	20 A	F2	19	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
28 - WALK IN FREEZER LIGHTS	1 A	170 VA	170 W	120 V	1	20 A	F2	14	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
29 - WALK IN FREEZER DOOR AND HEATED RELIEF VENT	8 A	900 VA	900 W	120 V	1	20 A	F2	12	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
30 - WALK-IN FREEZER BLOWER COIL HEATERS AND MOTOR	14 A	2850 VA	13.7 A	208 V	1	20 A	F2	15,17	2#12, 1#12G, 3/4"C	HARDWIRED DOWN FROM ABOVE	-	-	-	-	-	-	SEE NOTE 1
31 - WALK IN REFRIGERATION PACKAGE	10 A	3567 VA	11.9 MCA, 9.9 FLA, 15 MFS	208 V	3	15 A	F2	6,8,10	4#12, 1#12G, 3/4"C	HARDWIRED. BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT ON PRE-WIRED FUSED DISCONNECT ON WALK-IN COOLER REFRIGERATION PACKAGE.	-	-	FACTORY PROVIDED	-	-	-	
32 - WALK IN REFRIGERATION PACKAGE	23 A	8430 VA	28.3 MCA, 23.4 FLA, 40 MFS	208 V	3	40 A	F2	9,11,13	4#8, 1#10G, 1"C	HARDWIRED. BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT ON PRE-WIRED FUSED DISCONNECT ON WALK-IN COOLER REFRIGERATION PACKAGE.	-	-	FACTORY PROVIDED	-	-	-	
33 - INSECT FAN	10 A	1224 VA	10.2 A	120 V	1	20 A	F2	4	2#10, 1#10G, 3/4"C	HARDWIRED DOWN FROM ABOVE, 9' AFF	-	-	HEAVY DUTY	20	1	NF	
34 - HYDROVECTION OVEN	10 A	1200 VA	10 A	120 V	1	20 A	F2	50	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
34 - HYDROVECTION OVEN	10 A	1200 VA	10 A	120 V	1	20 A	F2	49	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
35 - PASS-THRU HEATED CABINET	8 A	1664 VA	7.8 A	208 V	1	30 A	F	17,19	4#10, 1#10G, 3/4"C	L14-30P, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
35 - PASS-THRU HEATED CABINET	8 A	1664 VA	7.8 A	208 V	1	30 A	F	26,28	4#10, 1#10G, 3/4"C	L14-30P, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
35 - PASS-THRU HEATED CABINET	8 A	1664 VA	7.8 A	208 V	1	30 A	F2	39,41	4#10, 1#10G, 3/4"C	L14-30P, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
36 - PASS-THRU FRIDGE	8 A	996 VA	8.3 A	120 V	1	20 A	F	30	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
36 - PASS-THRU FRIDGE	8 A	996 VA	8.3 A	120 V	1	20 A	F	32	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
36 - PASS-THRU FRIDGE	8 A	996 VA	8.3 A	120 V	1	20 A	F2	46	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, DOWN FROM ABOVE	YES, CIRCUIT BREAKER	-	-	-	-	-	
37 - DOUBLE CONV OVEN	6 A	720 VA	6 A	120 V	1	20 A	F	1	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
37 - DOUBLE CONV OVEN	6 A	720 VA	6 A	120 V	1	20 A	F	5	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, CIRCUIT BREAKER	YES	-	-	-	-	SEE NOTE 2
38 - TABLE RECEPT	16 A	1920 VA	20 A	120 V	1	20 A	F2	2	2#10, 1#10G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
38 - TABLE RECEPT	16 A	1920 VA	20 A	120 V	1	20 A	F2	3	2#10, 1#10G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	23	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	20	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	27	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	22	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	29	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	33	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	30	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	35	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	32	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E1 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	37	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	24	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	28	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	18	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	31	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	26	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	34	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	36	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	38	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	40	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
E2 - KITCHEN CONV	2 A	180 VA		120 V	1	20 A	F2	42	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 48" AFF	YES, RECEPTACLE	-	-	-	-	-	
T1 - SELF CONTAINED HAND SINK	16 A	1920 VA	20 A	120 V	1	20 A	G	32	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
T2 - REACH-IN REFRIGERATOR	11 A	1260 VA	10.5 A	120 V	1	20 A	G	33	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	YES, CIRCUIT BREAKER	-	-	-	-	-	
T3 - POS SYSTEM	7 A	876 VA	7.3 A	120 V	1	20 A	G	31	2#12, 1#12G, 3/4"C	QUADRUPLEX RECEPTACLE, STUBBED UP 4" AFF	-	-	-	-	-	-	
T4 - MOBILE HEATED CABINET	14 A	1656 VA	13.8 A	120 V	1	20 A	G	34	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	-	-	-	-	-	-	
T4 - MOBILE HEATED CABINET	14 A	1656 VA	13.8 A	120 V	1	20 A	G	35	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	-	-	-	-	-	-	
T5 - HOT WELL COUNTER	15 A	3120 VA	15 A	208 V	1	20 A	G	36,38	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	-	-	-	-	-	-	COORDINATE WITH MANUFACTURER FOR NEMA PLUG RATING
T6 - REFRIGERATED MERCHANDISER	9 A	1116 VA	9.3 A	120 V	1	20 A	G	37	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, STUBBED UP 4" AFF	-	-	-	-	-	-	
T8 - HOT WELL COUNTER	15 A	3120 VA	15 A	208 V	1	20 A	G	39,41	2#12, 1#12G, 3/4"C	SIMPLEX RECEPTACLE, STUBBED UP 4" AFF	-	-	-	-	-	-	COORDINATE WITH MANUFACTURER FOR NEMA PLUG RATING
T9 - MOBILE MILK CABINET	7 A	864 VA	7.2 A	120 V	1	20 A	G	40	2#12, 1#12G, 3/4"C	DUPLEX RECEPTACLE, 18" AFF	-	-	-	-	-	-	

NOTES:
- A. SCHEDULE INFORMATION WAS COPIED FROM KITCHEN FOOD SERVICE SHEETS DATED 09.10.2025. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ROUGH-IN SCHEDULE ON THE FOOD SERVICE SHEETS AND THIS SCHEDULE, THE FOOD SERVICE SCHEDULE SHALL GOVERN AND THE ENGINEER SHALL BE NOTIFIED.
- B. REFER TO KITCHEN CONSULTANT PLANS FOR LOCATIONS AND HEIGHTS OF KITCHEN EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
- C. REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
1. EQUIPMENT IS NOT PRE-WIRED AND WILL REQUIRE INDIVIDUAL CONNECTIONS AND FIELD WIRING FROM E.C.
2. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED CONNECTIONS SUCH THAT ALL ELECTRICAL CONNECTIONS BENEATH EXHAUST HOOD TO EXTEND TO SHUNT TRIP CIRCUIT BREAKERS WITHIN PANELBOARD FOR SHUT DOWN DURING FIRE MODE.

KEY PLAN

#	DATE	CHANGE DESCRIPTION

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PRINT DATE: 12/1/2025 2:45:13 PM
FILE INFO: Autodesk Docs://22301.01_DISD Harry Stone Montessori Academy Reno - R23/22301.01_DISD Harry Stone Montessori Acad Reno_ELECT_R23.rvt

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PMI JOB NO. 22102.002
PROJECT MGR. C.BARTON, B.JARRETT
MECHANICAL L. PECOY
PLUMBING R. COTTRELL
ELECTRICAL C.ZAMULINSKI

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS INDEPENDENT SCHOOL DISTRICT
HARRY STONE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
ELECTRICAL SCHEDULES

STATE OF TEXAS
BRANDON S. JARRETT
108664
LICENSED
PROFESSIONAL ENGINEER
12-2-25

12.02.2025

R22301.01

E701

100% CD'S SUBMITTAL

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GENERAL NOTES

ELECTRICAL CONTRACTOR NOTES:

1.) THE ELECTRICAL CONTRACTOR SHALL FURNISH AND PROVIDE THE FOLLOWING FOR COMMUNICATIONS CABLING: CABLE TRAY, CONDUIT, SLEEVES, WALL, AND FLOOR BOXES REFER TO THE ELECTRICAL AND COMMUNICATIONS DETAIL DRAWINGS.

A.) STANDARD DATA AND VOICE SERVICE BOXES FOR COMMUNICATIONS SHALL BE A FLUSH 4 11/16" SQ DEEP BOX (2⅛" MIN) WITH SINGLE GANG REDUCTION PLATE AND A 1"Ø CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE.

2.) CONTRACTOR SHALL PROVIDE RACEWAY INSTALLATION IN A MANNER THAT WILL PROTECT ALL DATA/VOICE/FIBER CABLING FROM MECHANICAL DAMAGE. INSTALL CONDUITS FOR COMMUNICATIONS WITH LONG RADIUS BENDS, BUSHED ENDS THAT ARE GROUNDED AND BONDED AS PER CODES AND STANDARDS.

3.) CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND COMMUNICATIONS TRADE ON CONDUIT AND CABLE TRAY ROUTING FOR COMMUNICATIONS CABLES PRIOR TO INSTALLATION OF PATHWAYS TO ENSURE CABLE PATHWAYS DO NOT CAUSE CABLE LENGTHS TO EXCEED MAXIMUM DISTANCES. IN GENERAL, CONDUITS FROM CABLE TRAY TO TELECOM OUTLETS SHOULD BE THE MOST DIRECT ROUTE POSSIBLE FOLLOWING BUILDING LINES.

4.) CONTRACTOR SHALL INSTALL A TIED OFF NYLON PULL STRING IN ALL CONDUITS.

5.) CONDUITS SHALL NOT EXCEED 180° OF BENDS BETWEEN PULL POINTS. INSTALL PERMANENTLY ACCESSIBLE PULL BOXES AS REQUIRED TO MEET THIS REQUIREMENT. DO NOT CHANGE DIRECTION OR BEND WITHIN A JUNCTION BOX OR PULL BOX.

6.) GROUNDING AND BONDING:

A.) BUILDING GROUNDING SYSTEM BY ELECTRICAL CONTRACTOR.

B.) ALL PATHWAYS INSTALLED FOR COMMUNICATIONS SHALL BE BONDED TO COMMUNICATION GROUND BUS BARS.

C.) REFER TO ELECTRICAL SERIES DRAWINGS AND SPECIFICATIONS FOR OTHER COMMUNICATION GROUNDING REQUIREMENTS AND INFO ON INSTALLATION OF MATERIALS AND HARDWARE.

D.) DISSIMILAR METALS BONDED TO EACH OTHER AND APT TO CORRODE IN NORMAL ENVIRONMENTAL CONDITIONS SHALL BE SEPARATED BY A CONDUCTIVE MATERIAL SPACER TO PREVENT CORROSION. REFER TO SPECIFICATIONS FOR OTHER GROUNDING REQUIREMENTS.

E.) BUS BARS SHALL BE PRE-DRILLED WITH STANDARD NEMA BOLT HOLE SIZING & SPACING FOR CONNECTIONS OF THE BONDING CONDUCTORS TO THE BUSBAR.

7.) IDENTIFICATION:

A.) SPRAY ALL BOXES AND CONDUIT FOR COMMUNICATIONS WITH A DISTINCTIVE COLOR FOR EASY IDENTIFICATION. COLOR SHALL BE DIFFERENT FROM OTHER TRADES.

COMMUNICATION NOTES

1.) THE TELECOMMUNICATIONS CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS FOR RELATED SECTIONS, WHICH MAKE UP THE CONTRACT DOCUMENTS AND SHALL COORDINATE ALL COMMUNICATIONS WORK ON THE COMMUNICATIONS PLANS WITH ANY COMMUNICATIONS SECTIONS OF RELATED DRAWINGS AND SPECIFICATIONS.

A.) STRUCTURED CABLING REQUIREMENTS FOR THE PROJECT ARE THE RESPONSIBILITY OF THE COMMUNICATIONS CABLING CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH ALL TRADES THAT APPLY. REFER TO MEP, AUDIOVISUAL, AND SECURITY SHEETS FOR ADDITIONAL CABLING REQUIREMENTS.

2.) TELECOMMUNICATIONS CONTRACTOR, CABLING CONTRACTOR, OR COMMUNICATIONS CONTRACTOR SHALL HERE AFTER BE REFERRED TO AS CONTRACTOR UNLESS OTHERWISE NOTED.

3.) CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS, AND LABOR NECESSARY TO COMPLETE THIS INFRASTRUCTURE INSTALLATION.

4.) ALL COMMUNICATIONS CABLING PATHWAYS OUTSIDE OF COMMUNICATIONS ROOMS BY ELECTRICAL CONTRACTOR.

5.) CONTRACTOR SHALL PROVIDE 'J' HOOKS ON THREADED ROD RATED FOR SUPPORTING DATA CABLING THAT IS NOT IN CONDUIT OR CABLE TRAY. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR ON CABLE PATHS PRIOR TO INSTALLATION OF CABLING.

COMMUNICATIONS CABLING:

1.) ALL HORIZONTAL UTP CABLING SERVING VOICE AND DATA SHALL BE CATEGORY 6 AND TERMINATED WITHIN A PHYSICAL LENGTH OF 295' OR LESS.

2.) ALL HORIZONTAL UTP CABLING SERVING WIRELESS ACCESS POINTS SHALL BE TWO (2) CATEGORY 6A AND TERMINATED WITHIN A PHYSICAL LENGTH OF 295' OR LESS.

3.) PROVIDE ALL NECESSARY MEANS TO PROTECT ALL NEW COPPER AND EXISTING FIBER/COPPER CABLING AND JACK/PORTS FROM MECHANICAL DAMAGE AND DUST DURING CONSTRUCTION.

4.) COORDINATE WITH GENERAL CONTRACTOR FOR SYSTEM FURNITURE WORKSTATIONS TO PROVIDE REQUIRED BRACKETS TO INSTALL AND TERMINATE COMMUNICATIONS CABLING, JACKS AND FACE PLATES.

5.) CABLING CONTRACTOR RESPONSIBLE FOR FINAL CONNECTION, TERMINATION AND TESTING TO THE DATA OUTLETS IN MODULAR FURNITURE, INCLUSIVE OF PATCH CORD ROUTING.

6.) CABLING CONTRACTOR SHALL CONFIRM ALL CABLE LENGTHS PRIOR TO BID AND ROUGH-IN.

GROUNDING AND BONDING:

1.) CONTRACTOR SHALL BOND ALL METALLIC COMPONENTS TO BUSBAR IN THE FOLLOWING MANNER:

A.) CONTRACTOR SHALL INSTALL A CONTINUOUS BONDING CONDUCTOR FROM BUSBAR TO EACH ROW OF EQUIPMENT RACKS. EXTEND CONDUCTOR ALONG ENTIRE ROW. BOND EACH RACK TO BONDING CONDUCTOR WITH AN INSULATED COPPER CONDUCTOR.

B.) BOND/STRAP ALL LADDER RACKS TO ADJACENT SECTIONS WITH A STRANDED BONDING COPPER CONDUCTOR. INSTALL A BONDING CONDUCTOR FROM BUSBAR TO LADDER RACKS.

C.) BONDING SHALL BE IN AN APPROVED MANNER.

D.) DISSIMILAR METALS BONDED TO EACH OTHER AND APT TO CORRODE IN NORMAL ENVIRONMENTAL CONDITIONS SHALL BE SEPARATED BY A CONDUCTIVE MATERIAL SPACER TO PREVENT CORROSION. REFER TO SPECIFICATIONS FOR OTHER GROUNDING REQUIREMENTS.

FIRESTOPPING:

1.) COORDINATE ANY AND ALL FIRESTOPPING WITH THE GENERAL CONTRACTOR BEFORE PROCEEDING WITH ANY WORK INVOLVING FIRESTOPPING.

2.) ALL FIRESTOPPING SHALL CONFORM TO THE SPECIFICATIONS AND RECOMMENDATIONS OF THERMAL AND MOISTURE PROTECTION ON FIRESTOPPING OF THROUGH PENETRATION SYSTEMS IN THE CONSTRUCTION SPECIFICATIONS DOCUMENT.

3.) SOLUTIONS AND SHOP DRAWINGS/SUBMITTALS FOR FIRE STOP MATERIALS AND SYSTEMS SHALL BE PRESENTED TO THE GENERAL CONTRACTOR FOR WRITTEN APPROVAL OF MATERIAL & SYSTEMS PRIOR TO PURCHASE AND INSTALLATION. ALL MATERIALS AND SYSTEMS SHALL BE COMPLETE, UL LISTED FOR INTENDED INSTALLATION, AND PROVIDE APPROPRIATE RATING AT THE COMPLETION OF JOB.

4.) SEAL ALL PENETRATIONS THROUGH FIRE-RATED BARRIERS (CONDUITS, SLEEVES, SLOTS, CHASES) CREATED BY OR MADE FOR OR ON THE BEHALF OF THE TELECOMMUNICATIONS CONTRACTOR TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH PENETRATIONS.

5.) CONTRACTOR SHALL PROVIDE TRAINING MANUALS WHICH INCLUDE INSTRUCTIONS ON METHODS OF ADDING OR REMOVING CABLING TO/FROM FIRESTOPPED SLEEVES AND CHASES.

6.) LAMINATE AND PERMANENTLY AFFIX TO EACH COMMUNICATIONS ROOM WALL ADJACENT TO CHASES THE FOLLOWING INFORMATION:

A.) NAME OF MANUFACTURER OF FIRE STOP SYSTEM.

B.) PART & MODEL NUMBERS OF SYSTEM AND ALL COMPONENTS.

NOT USED

LEGEND

#D ▽	WALL DATA INFORMATION OUTLET. NUMBER(#) DENOTES QUANTITY OF CABLES.
1D,S ▽	WALL DATA OUTLET FOR IP CAMERA. REFER TO SECURITY DRAWINGS AND SPECIFICATIONS FOR EXACT PLACEMENT.
1D,S ◈	CEILING DATA OUTLET FOR IP CAMERA. REFER TO SECURITY DRAWINGS AND SPECIFICATIONS FOR EXACT PLACEMENT.

ABBREVIATIONS

BAS:	BUILDING AUTOMATION SYSTEM
BET:	BUILDING ENTRANCE TERMINAL
DIV 01:	GENERAL REQUIREMENTS
DIV 07:	THERMAL & MOISTURE PROTECTION
DIV 23:	HEATING, VENTILATING, AND AIR-CONDITIONING
DIV 25:	INTEGRATED AUTOMATION
DIV 26:	ELECTRICAL
TR:	TELECOMMUNICATIONS ROOM
ER:	EQUIPMENT ROOM
TBB:	TELECOM BONDING BACKBONE
TBC:	TELECOM BONDING CONDUCTOR
SBB:	SECONDARY BUS BAR
TMBC:	TELECOM MAIN BONDING CONDUCTOR
PBB:	PRIMARY BUS BAR
TMH:	TELECOMMUNICATIONS MANHOLE
UTP:	UNSHIELDED TWISTED PAIR
WAP:	WIRELESS ACCESS POINT

DRAWING LIST

T000	LEGEND AND NOTES - COMMUNICATIONS
T001	RESPONSIBILITY MATRIX - COMMUNICATIONS
T101B	LEVEL 1 - FLOOR PLAN - AREA B - COMMUNICATIONS

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEGEND AND NOTES - COMMUNICATIONS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025
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100% CD'S SUBMITTAL

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RESPONSIBILITYMATRIX

UPDATED: JUNE 18, 2021

DALLAS ISD ORGANIZATION	DALLAS ISD DEPT / DIV / GROUP	BUILDING SYSTEMS	DESCRIPTION: EQUIPMENT & DEVICES	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	POWER:
				DESIGNED & DOCUMENTED FOR CONSTRUCTION BY	DESGNED & DOCUMENTED FOR CONSTRUCTION BY	PROVIDED AND INSTALLED BY	PROVIDED AND INSTALLED BY	PROVIDED AND INSTALLED BY
M&0	GROUNDS	MARQUEE SIGN	MARQUEE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&0	EMS/CONTROLS	BAS	JACE: EQUIPMENT, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ELEVATORS	ELEVATORS	WIRELESS EMERGENCY CALL-OUT	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ELEVATORS	ELEVATORS	SUMP HIGH FLOAT LOCAL ALARM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ALARMS	FIRE (SPRNKLER) SUPPRESSION	FLOW DETECTION	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ALARMS	FIRE ALARM	FIRE ALARM WIRELESS RADIO (AES) CALL-OUT, PANELS, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS-GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	E-RATE	TECHNOLOGY INFRASTRUCTURE	A/E IT - CONSULTANT	A/E	IT - INFRASTRUCTURE PM	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FIBER OPTIC	FIBER OPTIC CABLE FROM STREET TO MDF UPN	IT - FIBER CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL	IT - FIBER CONTRACTOR	CS - GENERAL CONTRACTOR (INCLUDING CIVIL PADS, VAULTS)	N/A
IT	INFRASTRUCTURE	NETWORK	FIBER OPTIC CABLING - DARK FIBER	IT - FIBER CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL	IT - FIBER CONTRACTOR	CS - GENERAL CONTRACTOR (INCLUDING CIVIL PADS, VAULTS)	N/A
IT	INFRASTRUCTURE	NETWORK	FIBER OPTIC BACKBONE CABLING: MDF TO IDF'S	IT - CABLING CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL		CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	INFRASTRUCTURE	FIBER OPTIC PATCH PANELS, JUMPERS, ETAL	IT - CABLING CONTRACTOR	A/E	IT - CABLING CONTRACTOR	N/A	N/A
IT/POLICE	CSS EM	ACCESS CONTROL	MDF & IDF ROOM SECURITY	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	MDF/IDF: HIGH HEAT ALARM SIGNAL	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/M&O	INFRASTRUCTURE ELECTRCAL	NETWORK	MDF/IDF: LIGHTNING PROTECTION SYSTEM AND EVENT ALERT	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	PORTABLES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	UPS	A/E	A/E	IT - NETWORK EQUIPMENT CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	WIRELESS ACCESS POINTS (WAPS)	A/E IT - CONSULTANT	A/E	IT - NETWORK EQUIPMENT CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	CABLING	A/E IT - CONSULTANT	A/E	IT - CABLING CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	PATCH PANELS	A/E IT - CONSULTANT	N/A	IT - CABLING CONTRACTOR	N/A	N/A
IT	INFRASTRUCTURE	NETWORK	RACKS (FLOOR MOUNTED)	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	RACKS (WALL MOUNTED)	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	PATCH CABLES	IT - CONSULTANT	N/A	IT - TECHNOLOGY CONTRACTOR	N/A	N/A
IT	INFRASTRUCTURE	NETWORK	BIOMETRIC CLOCKS (BIOCLOCKS)	A/E	A/E	CABLING BY IT - CABLING CONTRACTOR. DEVICE PROVIDED BY CS - GC PURCHASED FROM IT - BIOMETRIC CLOCK VENDOR	CS - GENERAL CONTRACTOR	POE BY IT—CABLING CONTRACTOR. DOES NOT REQUIRE LINE VOLTAGE POWER.
IT	INFRASTRUCTURE	NETWORK	POE SWITCH NETWORK	IT - NETWORK EQUIPMENT CONTRACTOR	N/A	IT - NETWORK EQUIPMENT CONTRACTOR	N/A	N/A
M&O	SOUND STAGE	VOICE COMMUNICATIONS	PA IP INTEGRATED ELECTRONIC COMMUNICATIONS NETWORK	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	NETWORK	MASTER CLOCK	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	VOIP	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	POE SWITCHES PA/SOUND	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR

GENERAL NOTES:

1.) RESPONSIBILITY MATRIX IS ONLY APPLICABLE TO THE NEW SECURE VESTIBULE AREA.

RESPONSIBILITYMATRIX

UPDATED: JUNE 18, 2021

DALLAS ISD ORGANIZATION	DALLAS ISD DEPT / DIV / GROUP	BUILDING SYSTEMS	DESCRIPTION: EQUIPMENT & DEVICES	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	POWER:
M&0	SOUND STAGE	VOICE COMMUNICATIONS	PATCH CABLES PA/SOUND	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	N/A
M&0	SOUND STAGE	VOICE COMMUNICATIONS	PATCH PANELS SOUND SYSTEM	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	N/A
IT	AUDIO-VISUAL	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	INTERACTIVE DISPLAYS	IT A/V VENDOR	A/E	IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/AES	AUDIO-VSUAL PERFORMING ARTS	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	AUDITORIUMS: SOUND SYSTEM	A/E THEATRE CONSULTANT	A/E	CS-GENERAL CONTRACTOR PURCHASED FROM IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/AES	AUDIO-VSUAL PERFORMING ARTS	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	AUDITORIUM: VIDEO PROJECTOR AND SCREEN	A/E THEATRE CONSULTANT	A/E	CS-GENERAL CONTRACTOR PURCHASED FROM IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	MULTI - PURPOSE ROOMS: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	AUDIO-VISUAL	CAFETORIUMS: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	AUDIO-VISUAL	CAFETORIUM: VIDEO PROJECTOR AND SCREEN	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	GYMNASIUM: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FOOD AND CHILD NUTRITION SERVICES	CAFETERA POINT OF SALE POS	FCNS CONTRACTOR	A/E	FCNS CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FOOD AND CHILD NUTRITION SERVICES	CAFETERIA DIGITAL DISPLAYS	A/E IT - CONSULTANT & A/E	A/E	DISPLAY: CS - GENERAL CONTRACTOR CABLING: IT-TECHNOLOGY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	NETWORK	PATCH PANELS SECURITY	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	N/A
IT/POLICE	CSS/EM	NETWORK	POE SWITCHES SECURITY DEVICES	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
M&0	ALARMS	INTRUSION DETEC1ON SYSTEM	INTRUSION WIRELESS CALL - OUT, PANELS, KEYPADS, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	STORM SHELTER OPERATIONS	CONTROL ROOM: PANELS, MONITORING AND OPERATIONAL CONTROLS, DEVICES, AND SIGNAGE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE M&F	CSS/EM ELECTRICAL	UPS (NON-NETWORK)	STORM SHELTER POWER AND MONITORING: GENERATOR OR BATTERY	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	SECURE VESTIBULE	SEE "ACCESS CONTROL" DIV 28	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	ACCESS CONTROL	CARD ACCESS/CCTV HEADEND LICENSING	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	CONTROL PANELS	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	ACCESS CONTROL	CARD READERS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	DOOR CONTRACTS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	ELECTRIFIED DOOR HARDWARE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	ELECTRIFIED DOOR HARDWARE POWER SUPPLIES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	ACCESS CONTROL	IP INTERCOMS: MASTERS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CAMERAS: EXTERIOR	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CAMERAS: INTERIOR	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/SPED	CSS	SAFETY & SECURITY	SPED MONITORING SYSTEM CAMERAS AND RECORDING	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CABLING SWITCH TO DEVICE	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	STORAGE SERVERS	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212

4747 Veterans Dr, Dallas, TX 75216

FOR

DISD

Moody Nolan

DRAWING TITLE:

RESPONSIBILITY MATRIX - COMMUNICATIONS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025

R22301.01

T001

100% CD'S SUBMITTAL

REVIT VERSION: 2023
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FILE INFO: Modified: R22301.01_DISD Harry Stone Montessori Academy Reno - R23\22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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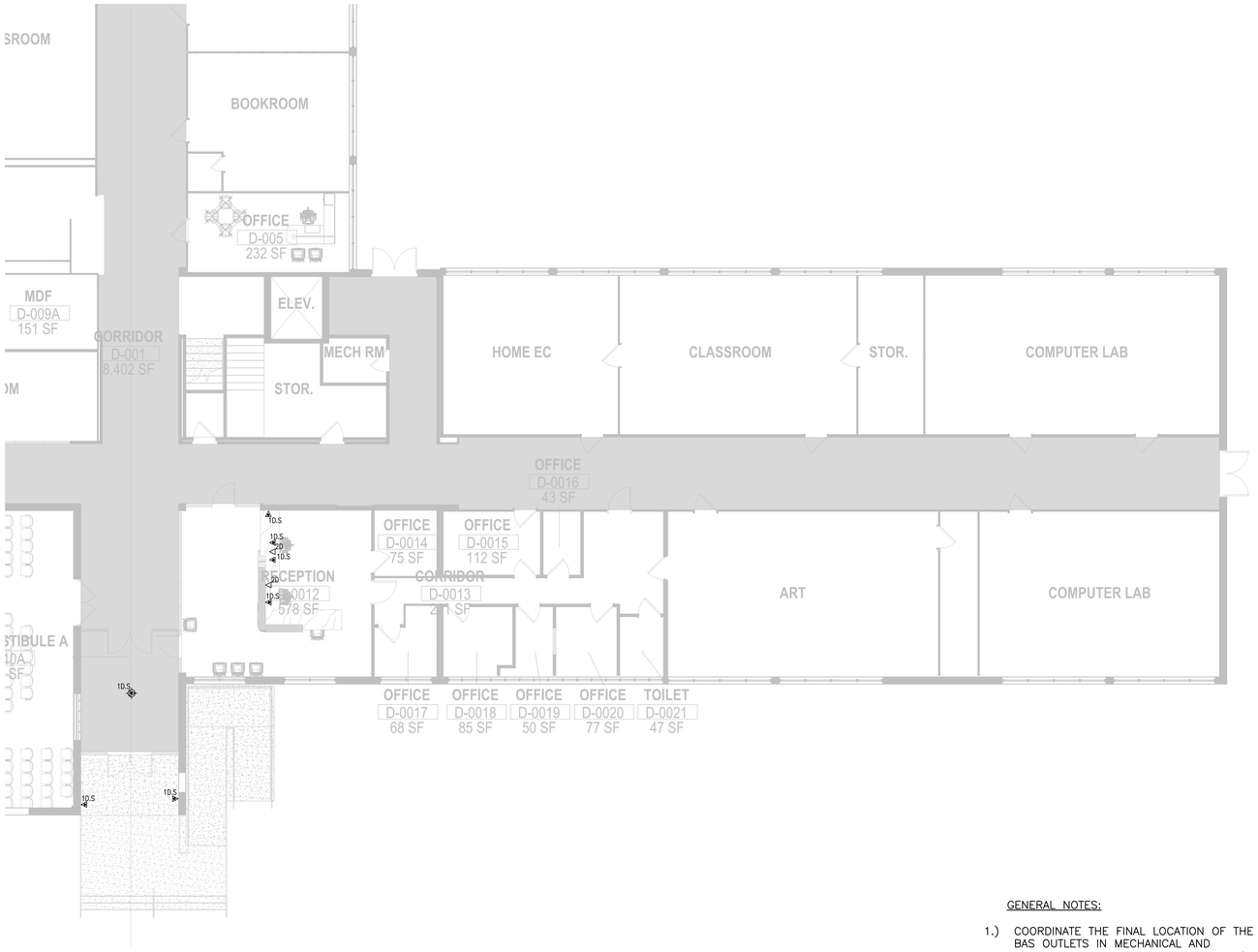


GENERAL NOTES:

1.) COORDINATE THE FINAL LOCATION OF THE BAS OUTLETS IN MECHANICAL AND ELECTRICAL SPACES WITH DIVISION 23/26 CONTRACTORS, PRIOR TO ROUGH–IN.

2.) VERIFY THE FINAL TERMINATIONS AND LOCATIONS OF OUTLETS INSTALLED IN MODULAR FURNITURE OR ARCHITECTURAL MILLWORK WITH ARCHITECTURAL DRAWINGS, PRIOR TO ROUGH–IN AND INSTALLATION.

3.) FRAME AND FINISH OPENINGS FOR ALL CABLING AND PROVIDE CONDUIT PENETRATIONS THROUGH ALL WALLS AND RATED PARTITIONS. FIRE STOP AFTER CABLE PLACEMENT AT ALL RATED WALLS.

4.) DO NOT ROUTE HVAC DUCTWORK OR PIPING OVER OR THRU THE TELECOM ROOMS.

5.) HOME RUN CONDUIT OVERHEAD TIGHT TO STRUCTURE AT EXPOSED CEILING FROM EACH OUTLET DIRECTLY TO TELECOM ROOM OR NEAREST BASKET TRAY. NO EXPOSED CABLING, J–HOOK PATHWAYS ONLY USED ABOVE ACCESSIBLE CEILING.

6.) FOR ALL RENOVATION SCOPE, THE CONTRACTOR TO PERFORM ALL WORK IN EVENING HOURS, WEEKENDS AND / OR HOLIDAYS. NO INDOOR WORK ALLOWED DURING SCHOOL HOURS.

7.) FOR ALL RENOVATION SCOPE, THE OUTDOOR WORK COULD BE ALLOWED DURING SCHOOL HOURS IF OK BY DISD SAFETY AND SCHOOL MANAGEMENT.

8.) CONTRACTOR MUST TEST EXISTING ACCESS CONTROL, SECURITY, PUBLIC ADDRESS & FIRE ALARM SYSTEMS PRIOR TO START OF ANY WORK. IF ANY DEFICIENCY FOUND, BRING IT TO AECOM PM ATTENTION IN WRITING. IF CONTRACTOR CHOOSE TO START THE WORK WITHOUT TESTING THESE EXISTING SYSTEMS, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THESE SYSTEMS AT NO COST TO THE OWNER.

9.) THE EXISTING SYSTEMS (PA, FA, ACCESS CONTROL, SECURITY & HVAC CONTROL) MUST STAY OPERATIONAL THROUGHOUT THE CONSTRUCTION PHASE UNTIL THE NEW SYSTEMS ARE ACTIVATED.

10.) AFTER SWITCHING OVER TO THE NEW SYSTEM (PA, FA, ACCESS & SECURITY), THE CONTRACTOR TO REMOVE THE OLD SYSTEM DEVICES IN ITS ENTIRETY INCLUDING ALL RELATED COMPONENTS. CONTRACTOR TO PATCH / PAINT ALL DAMAGED AREA, AFTER THE REMOVAL OF THE EXISTING DEVICES INCLUDING CONDUITS.

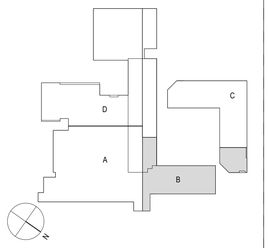
11.) CONFIRM FINAL LOCATION OF ALL ELEMENTS MOUNTED IN THE OFOI FURNITURE PRIOR TO ROUGH–IN.

12.) REMOVAL/RE–INSTALLATION OF THE EXISTING WIRELESS ACCESS POINTS IN THE EXISTING CEILINGS MUST BE COORDINATED WITH DCCD IT AT LEAST 2–WEEKS PRIOR TO THE REMOVAL OF THE CEILING ELEMENTS.

13.) FIBER SERVICE FEEDS TO THE BUILDING MUST REMAIN ACTIVE AND SHOULD BE AFFECTED BY THE MARQUEE FIBER FEEDS. IF RELOCATION NEEDED, NOTIFY DISD IT IMMEDIATELY.

1 LEVEL 1 - FLOOR PLAN - AREA B - COMMUNICATIONS
1/8" = 1'-0"

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 1 - FLOOR PLAN - AREA B - COMMUNICATIONS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025
R22301.01
T101B
100% CD'S SUBMITTAL

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SECURITY RISER DIAGRAM

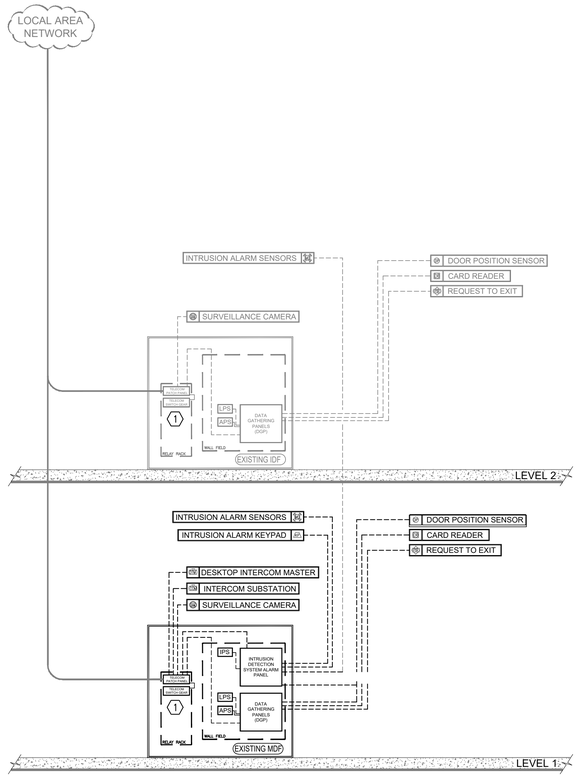
GENERAL NOTES:

1.) HOME RUN SECURITY FIELD DEVICES TO THE NEAREST MDF/IDF ROOM. FIELD VERIFY EXISTING INTRUSION DETECTION AND ACCESS CONTROL SYSTEM CAPACITY. PROVIDE ADDITIONAL SYSTEM CAPACITY TO ACCOMMODATE DEVICES INSTALLED WITH THIS PROJECT.

2.) EXISTING SYSTEMS LOCATED INSIDE WALL FIELD AND RELAY RACK ARE SHOWN AS GRAY SCALED.

KEYED NOTES:

(1) DATA NETWORK CONNECTIVITY OF DATA GATHERING PANELS TO LAN/WAN SHALL BE BY TELECOM CONTRACTOR. SECURITY CONTRACTOR SHALL COORDINATE WITH TELECOM CONTRACTOR AND IT PERSONNEL FOR IP ADDRESSES.



SECURITY NOTES

ARCHITECT/GEN. CONTRACTOR/CONST. MANAGER NOTES:

1.) THE ARCHITECT AND/OR GENERAL CONTRACTOR/CONSTRUCTION MANAGER IS RESPONSIBLE TO ENSURE THAT ALL DIVISIONS AND TRADES ARE AWARE OF WORK REQUIRED TO SUPPORT THE INSTALLATION OF RELATED SYSTEMS AND SUB-SYSTEMS. CONTRACTORS ARE RESPONSIBLE TO REVIEW ALL RELATED SPECIFICATIONS AND DRAWINGS.

SECURITY NOTES:

1.) THE SECURITY INTEGRATOR (SUBCONTRACTOR) SHALL REVIEW ALL CONSTRUCTION DOCUMENTS FOR RELATED SECTIONS, WHICH MAKE UP THE CONTRACT DOCUMENTS AND SHALL COORDINATE ALL ELECTRONIC SECURITY WORK ON THE ELECTRONIC SECURITY PLANS WITH ANY ELECTRONIC SECURITY SECTIONS OF RELATED DRAWINGS AND SPECIFICATIONS.

A.) ELECTRONIC SECURITY REQUIREMENTS FOR THE PROJECT ARE THE RESPONSIBILITY OF THE SECURITY INTEGRATOR (SUBCONTRACTOR) UNLESS OTHERWISE NOTED. COORDINATE WITH ALL TRADES THAT APPLY. REFER TO MEP AND COMMUNICATIONS SHEETS FOR ADDITIONAL CABLING REQUIREMENTS.

2.) ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR G.C. PRIOR TO INSTALLATION.

3.) ALL PRIMARY SECURITY WIRING PATHWAYS OUTSIDE OF SECURITY ROOMS SHALL BE BY ELECTRICAL CONTRACTOR. ALL CONDUIT RUNS SHALL BE FROM THE INSTALLED SECURITY DEVICE LOCATION TO THE NEAREST ACCESSIBLE CEILING SPACE.

4.) CONTRACTOR SHALL COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR AND CONSULT THE TELECOMMUNICATIONS DRAWINGS. INSTALL J-HOOKS AS REQUIRED TO SUPPORT SECURITY CABLING.

5.) PROVIDE ALL NECESSARY MEANS TO PROTECT ALL SECURITY CABLING AND CONNECTORS FROM MECHANICAL DAMAGE, DUST AND DIRT DURING CONSTRUCTION.

6.) FIRE PANEL CONNECTIVITY AND PROGRAMMING BY FIRE ALARM CONTRACTOR.

7.) SECURITY INTEGRATOR SHALL COORDINATE ANY INSTALLATION IN TELECOM ROOMS WITH OWNER IT DEPARTMENT.

8.) SHIELDED AND SCREENED CABLES SHALL HAVE THEIR SHIELD'S GROUNDED PER MANUFACTURER'S INSTRUCTION. WHEN SHIELD GROUNDS ARE REQUIRED AT ONE END ONLY, THEY SHALL BE GROUNDED AT THE DGP (MASTER PANEL WHEN REMOTE PANELS ARE USED), WITH THE OTHER END OF THE CABLE, INSULATED TO PREVENT SHIELD GROUNDING.

9.) ALL METALLIC DATA, SIGNALING AND POWER CONDUCTORS FOR ROOF, FENCE AND POLE/TOWER MOUNTED DEVICES/SENSORS SHALL HAVE SURGE SUPPRESSORS WITH MANUFACTURER RECOMMENDED GROUNDING AT BOTH THE DEVICE AND TERMINATION ENDS.

10.) ALL POWER SUPPLIES NOT FED FROM A UPS SHALL HAVE EXTERNAL SURGE SUPPRESSORS WITH MANUFACTURER RECOMMENDED GROUNDING.

ELECTRICAL CONTRACTOR NOTES:

1.) ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE THE FOLLOWING FOR SECURITY INFRASTRUCTURE: CONDUIT, SLEEVES, WALL, AND FLOOR BOXES. REFER TO ELECTRICAL AND TELECOMMUNICATIONS DRAWINGS.

A.) PROVIDE AND INSTALL WALL MOUNTED ¾" FIRE RETARDANT PLYWOOD FOR ALL SECURITY PANEL LOCATIONS. APPLY WHITE OR LIGHT COLORED PAINT TO ALL SIDES OF PLYWOOD PRIOR TO INSTALLATION. (BY ELECTRICAL CONTRACTOR, OR AS DESIGNATED BY C.M.)

B.) REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WALL AND CABINETRY BOX LOCATIONS.

C.) ALL BOXES INSTALLED FOR SECURITY SHALL HAVE CONDUITS INSTALLED FROM BACK BOX TO NEAREST ACCESSIBLE CEILING SPACE AT A POINT THAT ALLOWS ADEQUATE VERTICAL WORK ROOM.

2.) CONTRACTOR SHALL PROVIDE RACEWAY INSTALLATION IN A MANNER THAT WILL PROTECT ALL SECURITY CABLING FROM MECHANICAL DAMAGE. INSTALL CONDUITS FOR SECURITY WITH LONG RADIUS BENDS AND BUSHED ENDS.

3.) PROVIDE DEDICATED RECEPTACLE CIRCUITS LOCATED ON OR NEAR EACH EQUIPMENT RACK LOCATED IN THE SECURITY ROOMS. SEE DRAWINGS FOR EXACT LOCATIONS.

4.) CONTRACTOR SHALL INSTALL A TIED OFF NYLON PULL STRING IN ALL CONDUITS.

5.) IDENTIFICATION:

A.) SPRAY ALL BOXES AND CONDUIT FOR SECURITY WITH A DISTINCTIVE COLOR FOR EASY IDENTIFICATION. COLOR SHALL BE DIFFERENT FROM OTHER TRADES.

NOT USED

LEGEND

- WALL MOUNTED CARD READER
- MULLION MOUNTED CARD READER
- DP — DOOR POSITION SENSOR
- REX — REQUEST TO EXIT. (REX) (BY DIV 08)
- ELECTRIFIED DOOR HARDWARE WITH REMOTE LOCKDOWN CAPABILITY. (BY DIV 08)
- DOOR/OPENING CALLOUT. REFER TO DESIGNATED DETAIL.
- CAM — WALL MOUNTED INTERIOR DOME CAMERA WITH A MINIMUM 2MP (1080P) RESOLUTION UNLESS OTHERWISE NOTED.
- CAM — WALL MOUNTED EXTERIOR DOME CAMERA WITH A MINIMUM 2MP (1080P) RESOLUTION UNLESS OTHERWISE NOTED. PROVIDE ENVIRONMENTALLY CONTROLLED ENCLOSURE.
- ICM — INTERCOM SUBSTATION
- DTM — DESKTOP INTERCOM MASTER STATION
- DR — DOOR RELEASE
- KP — INTRUSION DETECTION CONTROL KEYPAD
- MD — 360° CEILING MOUNTED MOTION DETECTOR
- MD — CEILING MOUNT MOTION DETECTOR

ABBREVIATIONS

AC:	ACCESS CONTROL
APS:	ACCESS CONTROL SYSTEM POWER SUPPLY
CCTV:	CLOSED CIRCUIT TELEVISION
CPS:	CAMERA POWER SUPPLY
CPU:	CENTRAL PROCESSING UNIT
CR:	CARD READER
DGP:	DATA GATHERING PANEL
DVR:	DIGITAL VIDEO RECORDER
DIV 01:	GENERAL REQUIREMENTS
DIV 08:	OPENINGS
DIV 26:	ELECTRICAL
DIV 27:	COMMUNICATIONS
DP:	DOOR POSITION SENSOR
FOV:	FIELD OF VIEW - CAMERA PICTURE
GB:	GLASS BREAK DETECTOR
ID:	INTRUSION DETECTION
KVM:	KEYBOARD-VIDEO-MOUSE SWITCH
KP:	INTRUSION DETECTION KEYPAD
LPR:	LICENSE PLATE RECOGNITION
LPS:	LOCK POWER SUPPLY
MD:	MOTION DETECTOR
MP:	MEGAPIXEL - CAMERA RESOLUTION
NVR:	NETWORK VIDEO RECORDER
OFCI:	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI:	OWNER FURNISHED, OWNER INSTALLED
PoE:	POWER OVER ETHERNET
PP:	TELECOMMUNICATIONS PATCH PANEL
TR:	TELECOMMUNICATIONS ROOM
TCP/IP:	TRANSFER CONTROL/INTERNET PROTOCOL
UPS:	UNINTERRUPTIBLE POWER SUPPLY
UTP:	UNSHIELDED TWISTED PAIR
VMS:	VIDEO MANAGEMENT SYSTEM

DRAWING LIST

SC000	LEGEND AND NOTES - SECURITY
SC001	RESPONSIBILITY MATRIX - SECURITY
SC101B	LEVEL 1 - FLOOR PLAN - AREA B - SECURITY
SC301	DOOR ELEVATION DETAILS - SECURITY
SC401	GENERAL DETAILS - SECURITY

KEY PLAN

#	DATE	CHANGE DESCRIPTION

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GENERAL NOTES:

1.) RESPONSIBILITY MATRIX IS ONLY APPLICABLE TO THE NEW SECURE VESTIBULE AREA.

DALLAS ISD ORGANIZATION	DALLAS ISD DEPT / DIV / GROUP	BUILDING SYSTEMS	DESCRIPTION: EQUIPMENT & DEVICES	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	EQUIPMENT & DEVICES:	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, ETAL:	POWER:
				DESIGNED & DOCUMENTED FOR CONSTRUCTION BY	DESGNED & DOCUMENTED FOR CONSTRUCTION BY	PROVIDED AND INSTALLED BY	PROVIDED AND INSTALLED BY	PROVIDED AND INSTALLED BY
IT/POLICE	CSS EM	ACCESS CONTROL	MDF & IDF ROOM SECURITY	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/ POLICE	CSS/EM	ACCESS CONTROL	CARD ACCESS/CCTV HEADEND LICENSING	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	CONTROL PANELS	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	ACCESS CONTROL	CARD READERS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	DOOR CONTRACTS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	ELECTRIFIED DOOR HARDWARE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	ACCESS CONTROL	ELECTRIFIED DOOR HARDWARE POWER SUPPLIES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	ACCESS CONTROL	IP INTERCOMS: MASTERS	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	AUDIO-VISUAL	AUDIO-VISUAL	CAFETORIUMS: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	AUDIO-VISUAL	CAFETORIUM: VIDEO PROJECTOR AND SCREEN	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&0	EMS/CONTROLS	BAS	JACE: EQUIPMENT, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	INTERACTIVE DISPLAYS	IT A/V VENDOR	A/E	IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/AES	AUDIO-VSUAL PERFORMING ARTS	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	AUDITORIUMS: SOUND SYSTEM	A/E THEATRE CONSULTANT	A/E	CS-GENERAL CONTRACTOR PURCHASED FROM IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/AES	AUDIO-VSUAL PERFORMING ARTS	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	AUDITORIUM: VIDEO PROJECTOR AND SCREEN	A/E THEATRE CONSULTANT	A/E	CS-GENERAL CONTRACTOR PURCHASED FROM IT A/V VENDOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	AUDIO-VISUAL	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	MULTI - PURPOSE ROOMS: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	DISTRIBUTED AUDIO-VISUAL COMMUNICATIONS SYSTEMS	GYMNASIUM: SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ELEVATORS	ELEVATORS	WIRELESS EMERGENCY CALL-OUT	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ELEVATORS	ELEVATORS	SUMP HIGH FLOAT LOCAL ALARM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	E-RATE	TECHNOLOGY INFRASTRUCTURE	A/E IT - CONSULTANT	A/E	IT - INFRASTRUCTURE PM	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FIBER OPTIC	FIBER OPTIC CABLE FROM STREET TO MDF UPN	IT - FIBER CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL	IT - FIBER CONTRACTOR	CS - GENERAL CONTRACTOR (INCLUDING CIVIL PADS, VAULTS)	N/A
M&O	ALARMS	FIRE (SPRNKLER) SUPPRESSION	FLOW DETECTION	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	ALARMS	FIRE ALARM	FIRE ALARM WIRELESS RADIO (AES) CALL-OUT, PANELS, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS-GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FOOD AND CHILD NUTRITION SERVICES	CAFETERA POINT OF SALE POS	FCNS CONTRACTOR	A/E	FCNS CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	FOOD AND CHILD NUTRITION SERVICES	CAFETERIA DIGITAL DISPLAYS	A/E IT - CONSULTANT & A/E	A/E	DISPLAY: CS - GENERAL CONTRACTOR CABLING: IT-TECHNOLOGY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	INFRASTRUCTURE	FIBER OPTIC PATCH PANELS, JUMPERS, ETAL	IT - CABLING CONTRACTOR	A/E	IT - CABLING CONTRACTOR	N/A	N/A
M&0	ALARMS	INTRUSION DETEC1ON SYSTEM	INTRUSION WIRELESS CALL - OUT, PANELS, KEYPADS, CABLING, DEVICES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&0	GROUNDS	MARQUEE SIGN	MARQUEE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	FIBER OPTIC CABLING - DARK FIBER	IT - FIBER CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL	IT - FIBER CONTRACTOR	CS - GENERAL CONTRACTOR (INCLUDING CIVIL PADS, VAULTS)	N/A
IT	INFRASTRUCTURE	NETWORK	FIBER OPTIC BACKBONE CABLING: MDF TO IDF'S	IT - CABLING CONTRACTOR	A/E (INCLUDING PADS, VAULTS) CIVIL		CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	MDF/IDF: HIGH HEAT ALARM SIGNAL	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/M&O	INFRASTRUCTURE ELECTRCAL	NETWORK	MDF/IDF: LIGHTNING PROTECTION SYSTEM AND EVENT ALERT	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	PORTABLES	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	UPS	A/E	A/E	IT - NETWORK EQUIPMENT CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	WIRELESS ACCESS POINTS (WAPS)	A/E IT - CONSULTANT	A/E	IT - NETWORK EQUIPMENT CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	CABLING	A/E IT - CONSULTANT	A/E	IT - CABLING CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT	INFRASTRUCTURE	NETWORK	PATCH PANELS	A/E IT - CONSULTANT	N/A	IT - CABLING CONTRACTOR	N/A	N/A
IT	INFRASTRUCTURE	NETWORK	RACKS (FLOOR MOUNTED)	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	RACKS (WALL MOUNTED)	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT	INFRASTRUCTURE	NETWORK	PATCH CABLES	IT - CONSULTANT	N/A	IT - TECHNOLOGY CONTRACTOR	N/A	N/A
IT	INFRASTRUCTURE	NETWORK	BIOMETRIC CLOCKS (BIOCLOCKS)	A/E	A/E	CABLING BY IT - CABLING CONTRACTOR. DEVICE PROVIDED BY CS - GC PURCHASED FROM IT - BIOMETRIC CLOCK VENDOR	CS - GENERAL CONTRACTOR	POE BY IT—CABLING CONTRACTOR. DOES NOT REQUIRE LINE VOLTAGE POWER.
IT	INFRASTRUCTURE	NETWORK	POE SWITCH NETWORK	IT - NETWORK EQUIPMENT CONTRACTOR	N/A	IT - NETWORK EQUIPMENT CONTRACTOR	N/A	N/A
M&O	SOUND STAGE	NETWORK	MASTER CLOCK	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	NETWORK	PATCH PANELS SECURITY	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	N/A
IT/POLICE	CSS/EM	NETWORK	POE SWITCHES SECURITY DEVICES	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT/SPED	CSS	SAFETY & SECURITY	SPED MONITORING SYSTEM CAMERAS AND RECORDING	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	SECURE VESTIBULE	SEE "ACCESS CONTROL" DIV 28	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CAMERAS: EXTERIOR	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CAMERAS: INTERIOR	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	N/A
IT/ POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	CABLING SWITCH TO DEVICE	CSS - SECURITY CONTRACTOR	A/E	CSS - SECURITY CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE	CSS/EM	SECURITY: ELECTRONIC SURVEILLANCE	STORAGE SERVERS	CSS - SECURITY CONTRACTOR	N/A	CSS - SECURITY CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
IT/POLICE	CSS/EM	STORM SHELTER OPERATIONS	CONTROL ROOM: PANELS, MONITORING AND OPERATIONAL CONTROLS, DEVICES, AND SIGNAGE	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
IT/ POLICE M&F	CSS/EM ELECTRICAL	UPS (NON-NETWORK)	STORM SHELTER POWER AND MONITORING: GENERATOR OR BATTERY	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	PA IP INTEGRATED ELECTRONIC COMMUNICATIONS NETWORK	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	VOIP	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	SOUND SYSTEM	A/E	A/E	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR	CS - GENERAL CONTRACTOR
M&O	SOUND STAGE	VOICE COMMUNICATIONS	POE SWITCHES PA/SOUND	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	CS - GENERAL CONTRACTOR
M&0	SOUND STAGE	VOICE COMMUNICATIONS	PATCH CABLES PA/SOUND	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	N/A
M&0	SOUND STAGE	VOICE COMMUNICATIONS	PATCH PANELS SOUND SYSTEM	A/E	N/A	CS - GENERAL CONTRACTOR	N/A	N/A

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
RESPONSIBILITY MATRIX - SECURITY

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025
R22301.01
SC001
100% CD'S SUBMITTAL

REVIT VERSION: 2023
PRINT DATE: 8/8/2025 11:11:52 AM
FILE INFO: Autosave Docs:/22301.01_DISD Harry Stone Montessori Academy Reno_R23v22301.01_DISD Harry Stone Montessori Acad Reno_ARCH_R23.rvt

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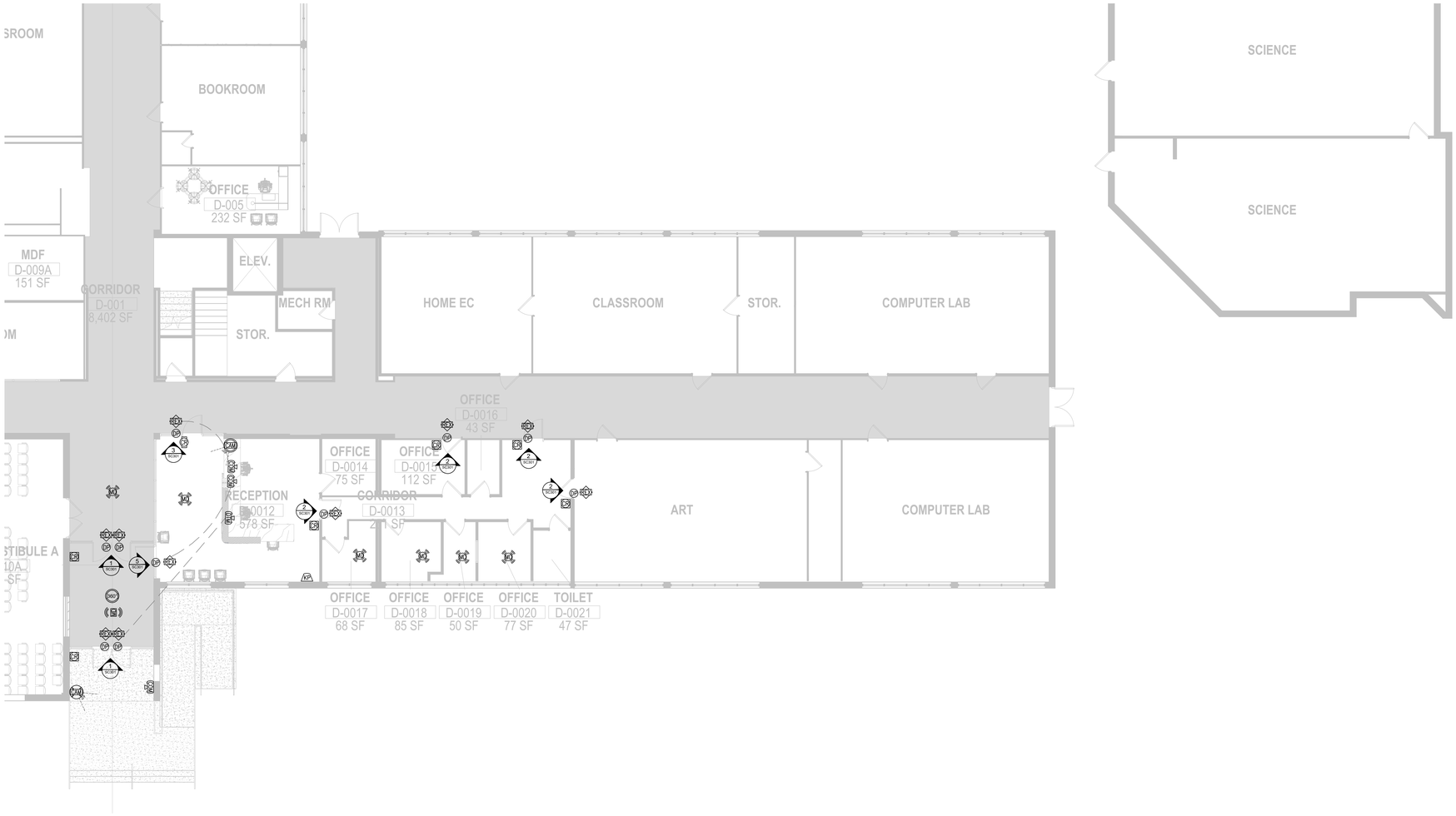


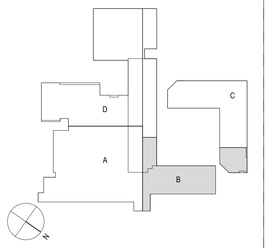
1 **LEVEL 1 - FLOOR PLAN - AREA B - SECURITY**
1/8" = 1'-0"

GENERAL NOTES:

1.) DOOR RELEASE BUTTON SHALL TERMINATE TO A DEDICATED INPUT TO MOMENTARILY UNLOCK DOOR. ONE DOOR RELEASE BUTTON PER DOOR.

2.) ROUTE ALL SECURITY DEVICE CABLING TO THE NEAREST MDF/IDF. FIELD VERIFY EXISTING INTRUSION DETECTION AND ACCESS CONTROL CAPACITY. PROVIDE ADDITIONAL SYSTEM CAPACITY TO ACCOMMODATE DEVICES INSTALLED WITH THIS PROJECT.

KEY PLAN



#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
LEVEL 1 - FLOOR PLAN - AREA B - SECURITY

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025

R22301.01

SC101B

100% CD'S SUBMITTAL

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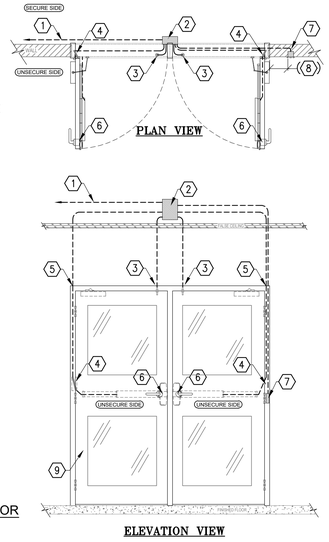
KEYED NOTES:

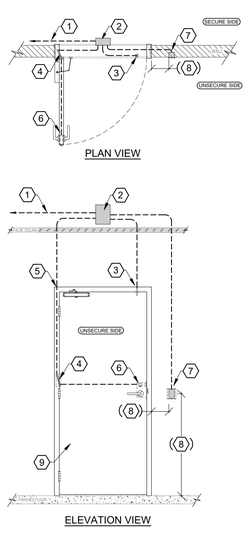
1. ¾"ø CONDUIT TO ACCESSIBLE CEILING FOR PATHWAY AND WIRING TO SECURITY CONTROL LOCATION. (BY DIV 26)
2. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
3. CONCEALED DOOR POSITION SENSOR. PROVIDE ¾"ø CONDUIT AND REQUIRED FRAME AND PATHWAY PREPARATION.
4. POWER TRANSFER FOR WIRE ROUTING TO J–BOX. (BY DIV 08)
5. PROVIDE ¾"ø CONDUIT, REQUIRED FRAME, AND PATHWAY PREPARATION FOR WIREWAY THROUGH DOOR.
6. ELECTRIFIED EXIT DEVICE WITH INTEGRAL REX SWITCH AND MONITORING ON SECURE SIDE. (BY DIV 08)
7. ¾"ø CONDUIT TO MULLION MOUNTED CARD READER. (BY DIV 26)
8. MOUNT CARD READER ON UNSECURE SIDE 36" AFF AND 6" OPTIMUM FROM DOOR.
9. COORDINATE GLASS/ALUMINUM DOOR WITH DIVISION 08 DOOR AND HARDWARE SPECIFICATIONS/DRAWINGS.



1 DOUBLE EXIT DEVICE CARD READER DOOR
SCALE: Not to Scale

KEYED NOTES:

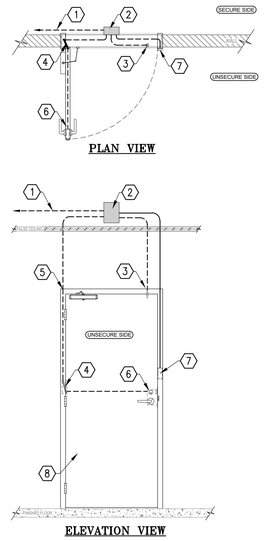
1. ¾"ø CONDUIT TO ACCESSIBLE CEILING FOR PATHWAY AND WIRING TO SECURITY CONTROL LOCATION. (BY DIV 26)
2. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
3. CONCEALED DOOR POSITION SENSOR. PROVIDE ¾"ø CONDUIT AND REQUIRED FRAME AND PATHWAY PREPARATION.
4. POWER TRANSFER FOR WIRE ROUTING TO J–BOX. (BY DIV 08)
5. PROVIDE ¾"ø CONDUIT, REQUIRED FRAME, AND PATHWAY PREPARATION FOR WIREWAY THROUGH DOOR.
6. ELECTRIFIED LOCKSET WITH INTEGRAL REX SWITCH. (BY DIV 08)
7. SINGLE GANG JUNCTION BOX AND ¾"ø CONDUIT FOR CARD READER. (BY DIV 26)
8. MOUNT CARD READER ON UNSECURE SIDE 42" AFF AND 6" OPTIMUM FROM DOOR.
9. COORDINATE WITH DIVISION 08 DOOR AND HARDWARE SPECIFICATIONS/DRAWINGS.



2 SINGLE ELEC. LOCK CARD READER DOOR
SCALE: Not to Scale

KEYED NOTES:

1. ¾"ø CONDUIT TO ACCESSIBLE CEILING FOR PATHWAY AND WIRING TO SECURITY CONTROL LOCATION. (BY DIV 26)
2. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
3. CONCEALED DOOR POSITION SENSOR. PROVIDE ¾"ø CONDUIT AND REQUIRED FRAME AND PATHWAY PREPARATION.
4. POWER TRANSFER FOR WIRE ROUTING TO J–BOX. (BY DIV 08)
5. PROVIDE ¾"ø CONDUIT, REQUIRED FRAME, AND PATHWAY PREPARATION FOR WIREWAY THROUGH DOOR.
6. ELECTRIFIED LOCKSET WITH INTEGRAL REX SWITCH. (BY DIV 08)
7. MULLION–TYPE CARD READER. COORDINATE WITH DOOR INSTALLER TO ROUTE WIRES IN DOOR FRAME.
8. COORDINATE WITH DIVISION 08 DOOR AND HARDWARE SPECIFICATIONS/DRAWINGS.



3 MULLION CARD READER DOOR
SCALE: Not to Scale

KEYED NOTES:

1. ¾"ø CONDUIT TO ACCESSIBLE CEILING FOR PATHWAY AND WIRING TO SECURITY CONTROL LOCATION. (BY DIV 26)
2. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
3. CONCEALED DOOR POSITION SENSOR. PROVIDE ¾"ø CONDUIT AND REQUIRED FRAME AND PATHWAY PREPARATION.
4. POWER TRANSFER FOR WIRE ROUTING TO J–BOX. (BY DIV 08)
5. PROVIDE ¾"ø CONDUIT, REQUIRED FRAME, AND PATHWAY PREPARATION FOR WIREWAY THROUGH DOOR.
6. ELECTRIFIED LOCKSET WITH INTEGRAL REX SWITCH. (BY DIV 08)
7. COORDINATE WITH DIVISION 08 DOOR AND HARDWARE SPECIFICATIONS/DRAWINGS.

4 DOUBLE MONITORED DOOR
SCALE: Not to Scale

KEYED NOTES:

1. ¾"ø CONDUIT TO ACCESSIBLE CEILING FOR PATHWAY AND WIRING TO SECURITY CONTROL LOCATION. (BY DIV 26)
2. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
3. CONCEALED DOOR POSITION SENSOR. PROVIDE ¾"ø CONDUIT AND REQUIRED FRAME AND PATHWAY PREPARATION.
4. POWER TRANSFER FOR WIRE ROUTING TO J–BOX. (BY DIV 08)
5. PROVIDE ¾"ø CONDUIT, REQUIRED FRAME, AND PATHWAY PREPARATION FOR WIREWAY THROUGH DOOR.
6. ELECTRIFIED LOCKSET WITH INTEGRAL REX SWITCH. (BY DIV 08)
7. COORDINATE WITH DIVISION 08 DOOR AND HARDWARE SPECIFICATIONS/DRAWINGS.

SECURITY EQUIPMENT PROVIDED BY OTHERS. REFERENCE FOR INFRASTRUCTURE ONLY.

5 SINGLE ELEC. LOCK MONITORED DOOR
SCALE: Not to Scale

6 NOT USED
SCALE: Not to Scale

7 NOT USED
SCALE: Not to Scale

8 NOT USED
SCALE: Not to Scale

9 NOT USED
SCALE: Not to Scale

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KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE
DOOR ELEVATION DETAILS - SECURITY

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025
R22301.01
SC301
100% CD'S SUBMITTAL

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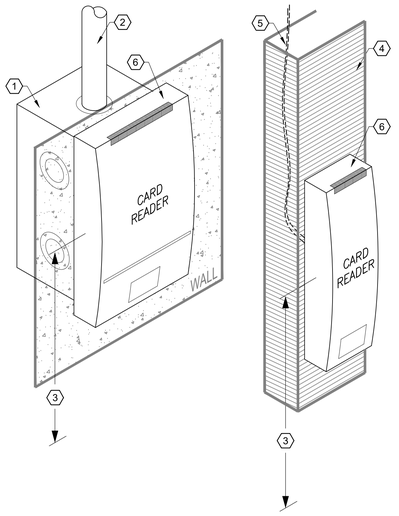
KEYED NOTES:

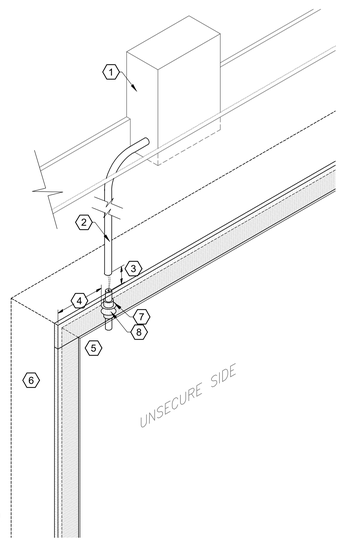
1. RECESSED SINGLE GANG BACK BOX.
2. ¾"Ø CONDUIT C/W PULL STRING TO ACCESSIBLE CEILING SPACE. (BY DIV 26)
3. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/GC.
4. DOOR MULLION.
5. COORDINATE WIRE ROUTING WITH DIV 08.
6. PROVIDE END OF LINE RESISTOR. LABEL TOP OF CARD READER WITH CORRESPONDING DOOR DESIGNATION. COORDINATE WITH OWNER ON EXACT LABELING METHOD.



1 CARD READERS (⊡)
SCALE: Not to Scale

KEYED NOTES:

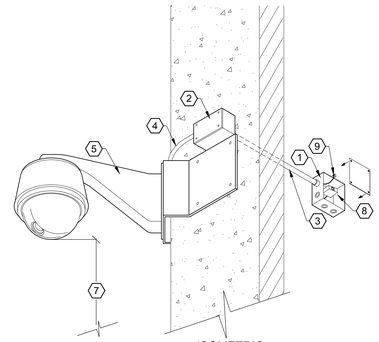
1. CONCEALED 6" X 8" X 4" COVERED JUNCTION BOX LOCATED NEAR DOOR ABOVE CEILING ACCESSIBLE TO SECURE SIDE. (BY DIV 26)
2. ¾"Ø CONDUIT C/W PULL STRING. (BY DIV 26)
3. MAXIMUM OF 2" GAP WITH CLEAR WIRING PATH TO SWITCH.
4. 6" OPTIMAL FROM OUTSIDE EDGE OF HEADER.
5. DOOR. (BY DIV 08)
6. DOOR FRAME. (BY DIV 01 & 08)
7. DOOR POSITION SWITCH (1"Ø) WITH DPDT CONTACTS. PROVIDE END OF LINE RESISTOR.
8. DOOR MOUNTED MAGNET (1"Ø).



2 MONITORED DOOR POSITION SENSOR (Ⓜ)
SCALE: Not to Scale

KEYED NOTES:

1. SURFACE MOUNTED 4 1/16"X4 1/16"X2⅛" DOUBLE GANG BOX. (BY DIV 26)
2. SURFACE MOUNTED SINGLE GANG EXTERIOR BOX. (BY DIV 26)
3. ¾"Ø CONDUIT C/W POLYLINE PULL STRING TO BOX. (BY DIV 26)
4. ¾"Ø EXTERIOR FLEXIBLE CONDUIT.
5. CAMERA, ENCLOSURE, AND MOUNTING SUPPORT HARDWARE AS REQUIRED BY THE MANUFACTURER.
6. CABLING TO NEAREST TELECOM ROOM. (BY DIV 27)
7. FIELD VERIFY MOUNTING HEIGHT.
8. BISCUIT WITH RJ-45 JACK UNMOUNTED IN BOX. (BY DIV 27)
9. FACTORY MADE PATCH CABLE.



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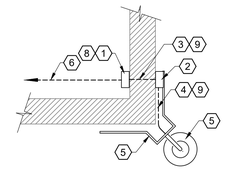
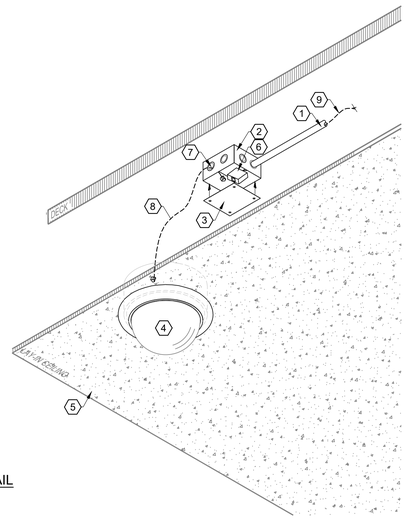


PLAN VIEW

5 EXTERNAL CAMERA CORNER MOUNTING (Ⓒ)
SCALE: Not to Scale

KEYED NOTES:

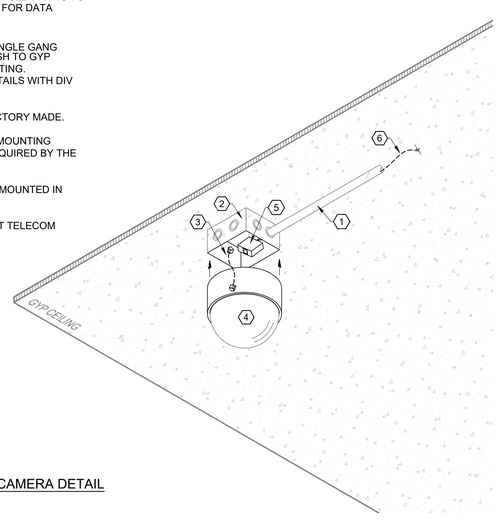
1. ¾"Ø CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY. (BY DIV 26)
2. 4" X 4" X 2⅛" BOX. (BY DIV 26)
3. BOX COVER PLATE WITH TORX TAMPER RESISTANT SCREWS.
4. PROVIDE FLUSH MOUNTED CAMERA, BACKBOX, ENCLOSURE AND MOUNTING HARDWARE.
5. SCHEDULED CEILING.
6. BISCUIT WITH RJ-45 JACK UNMOUNTED IN BOX. (BY DIV 27)
7. PROVIDE AND INSTALL GROMMET FOR KNOCK-OUT.
8. PATCH CABLES MUST BE FACTORY MADE.
9. HOMERUN BACK TO NEAREST TELECOM ROOM. (BY DIV 27)



4 CEILING MOUNTED CAMERA DETAIL
SCALE: Not to Scale

KEYED NOTES:

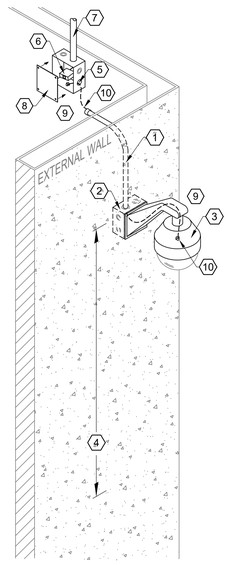
1. ¾"Ø CONDUIT C/W POLYLINE PULL STRING TO ACCESSIBLE CEILING SPACE FOR DATA CONNECTIVITY. (BY DIV 26)
2. 4 1/16"X4 1/16"X2⅛" BOX WITH SINGLE GANG DEVICE RING MOUNTED FLUSH TO GYP CEILING FOR CAMERA MOUNTING. COORDINATE MOUNTING DETAILS WITH DIV 28. (BY DIV 26)
3. PATCH CABLES MUST BE FACTORY MADE.
4. CAMERA, ENCLOSURE, AND MOUNTING SUPPORT HARDWARE AS REQUIRED BY THE MANUFACTURER.
5. BISCUIT WITH RJ-45 JACK UNMOUNTED IN BOX. (BY DIV 27)
6. HOMERUN BACK TO NEAREST TELECOM ROOM. (BY DIV 27)



5 SOFFIT MOUNTED CAMERA DETAIL
SCALE: Not to Scale

KEYED NOTES:

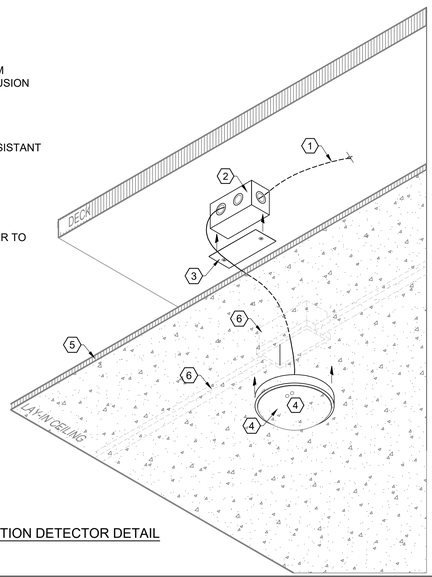
1. ¾"Ø CONDUIT C/W POLYLINE PULL STRING FROM EXTERNAL BOX TO INTERNAL SPACE. (BY DIV 26)
2. FLUSH MOUNTED 4 1/16"X4 1/16"X2⅛" DOUBLE GANG BOX. (BY DIV 26)
3. EXTERNAL PENDANT DOME CAMERA, ENCLOSURE AND MOUNTING SUPPORT HARDWARE AS REQUIRED BY THE MANUFACTURER.
4. 10'-0" TO 11'-0" TYPICAL UNLESS OTHERWISE NOTED. FIELD VERIFY MOUNTING HEIGHT.
5. 4 1/16"X4 1/16"X2⅛" DOUBLE GANG BOX. (BY DIV 26) PROVIDE AND INSTALL GROMMET FOR KNOCK-OUT.
6. BISCUIT WITH RJ-45 JACK UNMOUNTED IN BOX. (BY DIV 27)
7. ¾"Ø CONDUIT TO CABLE TRAY OR ACCESSIBLE SPACE. (BY DIV 26)
8. BOX COVER PLATE WITH TORX TAMPER RESISTANT SCREWS.
9. PROVIDE AUXILIARY POWER FOR CAMERA SYSTEM AS REQUIRED.
10. PATCH CABLES MUST BE FACTORY MADE.



6 EXTERNAL WALL MOUNTED CAMERA DETAIL
SCALE: Not to Scale

KEYED NOTES:

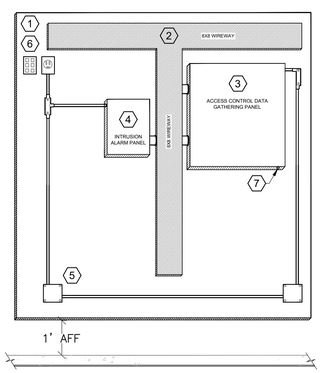
1. FOUR CONDUCTOR INTRUSION ALARM CABLE. HOMERUN TO NEAREST INTRUSION DETECTION SYSTEM ALARM PANEL.
2. SINGLE GANG BACKBOX. (BY DIV 26)
3. BOX COVER PLATE WITH TAMPER RESISTANT SCREWS.
4. MOTION DETECTOR.
5. SCHEDULED LAY-IN CEILING.
6. DEVICE RING AND T-GRID BAR HANGER TO SUPPORT DEVICE. (BY DIV 26)



3 LAY-IN CEILING MOUNTED MOTION DETECTOR DETAIL
SCALE: Not to Scale

KEYED NOTES:

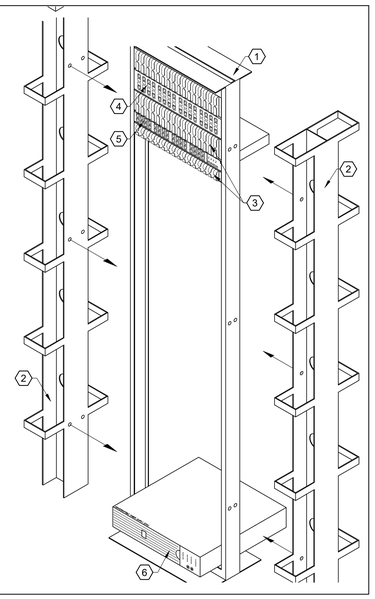
1. ¾" FIRE RETARDANT PLYWOOD PAINTED FLAT WHITE FOR MOUNTING SECURITY ENCLOSURES, WIRE AND WIRE MANAGEMENT SYSYTEMS. (COORDINATED BY GENERAL CONTRACTOR)
2. 8" X 8" WIREWAY. STORE EXTRA CABLE IN WIREWAY AND SEPARATE FROM OTHER CABLING.
3. DATA GATHERING PANEL IN NEMA TYPE 1 ENCLOSURE WITH KEY LOCKING HINGED COVER, TAMPER SWITCH, BACKUP BATTERIES, AND LOCAL ON/OFF POWER SWITCH. LOCK POWER SUPPLY SHALL INCLUDE FUSED POWER DISTRIBUTION SYSTEM, LOCK RELAY INTERFACE, FIRE ALARM RELEASE INTERFACE, AND LOCAL ON/OFF POWER SWITCH.
4. INTRUSION ALARM PANEL WITH NEMA TYPE 1 ENCLOSURE WITH KEY LOCKING HINGED COVER AND TAMPER SWITCH.
5. DEDICATED 120VAC CIRCUIT WITH DEDICATED GROUND ON 24 HOUR EMERGENCY POWER.
6. COMMUNICATIONS OUTLETS. ONE DATA OUTLET PER INTRUSION ALARM PANEL (BY DIV 27) AND ONE DATA OUTLET PER DATA GATHERING PANEL. (BY DIV 27)
7. FIRE ALARM INTERFACE.



8 TYPICAL SECURITY WALL FIELD
SCALE: Not to Scale

KEYED NOTES:

1. 7' RELAY RACK. (BY DIV 27)
2. VERTICAL WIRE MANAGEMENT. (BY DIV 27)
3. HORIZONTAL WIRE MANAGEMENT. (1RU AND 2RU) (BY DIV 27)
4. PATCH PANEL. (PATCH PANEL AND CABLE TERMINATION BY DIV 27)
5. LAYER 3 POWER OVER ETHERNET (PoE) SWITCH.
6. UNINTERRUPTIBLE POWER SUPPLY. (UPS)



9 TYPICAL IDF SECURITY RACK
SCALE: Not to Scale

KEY PLAN

#	DATE	CHANGE DESCRIPTION

CLIENT LOGO IF AVAILABLE

DISD Harry Stone Montessori Academy Renovation Org 212
4747 Veterans Dr, Dallas, TX 75216
FOR
DISD

Moody Nolan

DRAWING TITLE:
GENERAL DETAILS - SECURITY

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
John Rob Hicks
BICSI ID # 200774
EXPIRES 12-31-25
RCDD

12.02.2025
R22301.01
SC401
100% CD'S SUBMITTAL

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