

2026 Classroom Addition Milan Elementary

Milan Community School Corporation
418 E. Carr Street Milan, Indiana 47031

DESIGN TEAM

ARCHITECT/ENGINEER

TowerPinkster
Architecture · Engineering · Interiors

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OWNER ADDRESS

MILAN COMMUNITY SCHOOLS
STREET ADDRESS
MILAN, IN 47031

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TECHNOLOGY	
T101	DATA, INTERCOM & CLOCK PLAN



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SHEET TITLE
COVER SHEET

SHEET NUMBER
G001
25128.001

DATE
APRIL 25, 2025

ISSUED FOR
DATE

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Milan Elementary

418 E. Carr Street
Milan, Indiana 47031
Milan Community School Corporation



(WHERE APPLICABLE) TO BE 2" OVER BACKSPLASH OR OVER COUNTERTOP (IF NO BACKSPLASH). FOR LARGE FORMAT TILE, ALIGN EDGE OF DEVICE WITH HORIZONTAL GROUT LINE CLOSEST TO COUNTERTOP.

PNT	PAINT
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
TYP	TYPICAL
VIF	VERIFY IN FIELD
WD	WOOD



FIRST FLOOR CODE COMPLIANCE PLAN
1/16" = 1'-0"

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

CODE COMPLIANCE KEY

CLASSROOM

A000A

400

20

ROOM NAME AND ROOM NUMBER

ROOM AREA

OCCUPANT LOAD FACTOR

OCCUPANT LOAD

T.D. - 100' - 0"

P.T.D. - 200' - 0"

TRAVEL DISTANCE TO EGRESS DOOR (T.D.)

DIRECTION OF EGRESS

PERMITTED MAXIMUM TRAVEL DISTANCE PER CONDITION (P.T.D.)

C.P.T. - 50' - 0"

C.P.T. - 50' - 0"

COMMON PATH OF TRAVEL (C.P.T.)

DIRECTION OF EGRESS

EGRESS WIDTH

EGRESS CAPACITY

MAIN EGRESS EXIT

EGRESS WIDTH

EGRESS CAPACITY

SECONDARY EGRESS EXIT

FIRE SAFETY SYMBOLS

FEC

FEC

FEC

FEC

AED

KNOX

EXISTING FIRE EXTINGUISHER

EXISTING FIRE EXTINGUISHER CABINET

FIRE EXTINGUISHER

FIRE EXTINGUISHER CABINET

AUTOMATED EXTERNAL DEFIBRILLATOR (AED)

RECESSED CABINET

KNOX BOX

FIRE-RATING KEY

COORDINATE ALL REQUIRED DAMPERS WITH MECHANICAL.

DESIGNATION

RATING

PRIORITY

4 HOUR FIRE WALL¹

1

1. ALL PENETRATIONS THROUGH A FIRE OR SMOKE RATED PARTITION SHOULD BE SEALED WITH AN APPROVED U.L. RATED PRODUCT.

2. THE TOPS OF ALL FIRE RATED PARTITIONS SHALL BE SEALED TO THE CONTINUOUS STRUCTURE ABOVE WITH A U.L. RATED SYSTEM OR ASSEMBLY.

3. WOOD BLOCKING IN FIRE-RATED PARTITIONS SHALL BE NON-COMBUSTIBLE TREATED WOOD.

4. REFER TO SPECIFICATION U.L. RATING INFORMATION.

5. FIRE RATED WALLS ENDING INTO AN ACOUSTICAL DECK MUST HAVE THE FLUTES FILLED, REFER TO TOP OF WALL DETAIL AT ACOUSTIC DECK SHOWN ON THIS SHEET.

• FOR MASONRY WALLS THE MASON SHALL FILL VOIDS AND FIRE SPRAY WITH UL LISTED MATERIAL.

• FOR STUD WALLS USE FIRE SAFING AND FIRE CAULK.

REFERENCED CODE

BUILDING: GENERAL ADMINISTRATIVE RULES (675 IAC 12); 2014 INDIANA BUILDING CODE (675 IAC 13); 2014 INDIANA FIRE CODE (675 IAC 22)

ENERGY: 2010 INDIANA ENERGY CONSERVATION CODE (675 IAC 19)

PLUMBING: 2012 INDIANA PLUMBING CODE (675 IAC 16)

MECHANICAL: 2014 INDIANA MECHANICAL CODE (675 IAC 18)

FUEL GAS: 2014 INDIANA FUEL GAS CODE (675 IAC 25)

ELECTRICAL: 2009 INDIANA ELECTRICAL CODE (675 IAC 17)

CHAPTER 11 - ACCESSIBILITY

USE GROUP: E

CONSTRUCTION TYPE: II-B

SPRINKLERS: NON-SPRINKLERED

CODE SUMMARY

BUILDING OCCUPANCY

E

IBC, 305

CONSTRUCTION TYPE

II-B

IBC, 602

SPRINKLER

NON-SPRINKLERED

IBC, 903

PERMITTED TRAVEL DISTANCE

200 FT

IBC, TABLE 1016.2

COMMON PATH OF TRAVEL

75 FT

IBC, 1014.3

DEAD END CORRIDOR LENGTH

20 FT

IBC, 1018.4

ALLOWABLE HEIGHT

2 STORIES (35 FT)

IBC, TABLE 503

ACTUAL HEIGHT

1 STORY (25 FT)

IBC, TABLE 503

ALLOWABLE AREA

14,500 SF

IBC, TABLE 503

w/ FRONTAGE INCREASE

25,375 SF

IBC, 506.2

EXISTING BUILDING AREA^{1,2}

64,500 SF^{1,2}

10,852 SF^{1,2}

PROPOSED ADDITION^{1,2}

75,352 SF^{1,2}

75,352 SF^{1,2}

NEW TOTAL BUILDING AREA^{1,2}

75,352 SF^{1,2}

75,352 SF^{1,2}

¹ IBC, 706 - Each portion of a building separated by one or more fire walls... shall be considered a separate building.

² IBC, 506.2.2 - A 4-hour fire wall shall be considered equivalent to 60 feet of open space for any building. This will allow a building addition to an existing building in non-compliance.

³ IBC 722.4.2 - Calculated fire resistance of masonry walls of different material

$R = (R_1^{0.59} + R_2^{0.59})^{1.7}$

R_1 = Block, expanded slag equivalent thickness = 1.5'

R_2 = Hollow brick equivalent thickness = 2.3'

IBC, 722.3.2

IBC, 722.4.1(1)

$R = (1.5^{0.59} + 2.3^{0.59})^{1.7}$

$R = (1.27 + 1.63)^{1.7}$

$R = 2.9^{1.7}$

R = 6.11 HOUR RATING

MILAN ELEMENTARY SCHOOL

N.I.S.

RENO.

NEW

A

B

C

KEY PLAN

SCALE: NO SCALE

ISSUED FOR

DATE

SHEET TITLE

DATE

SHEET NUMBER

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APRIL 25, 2025

G101

Milan Elementary

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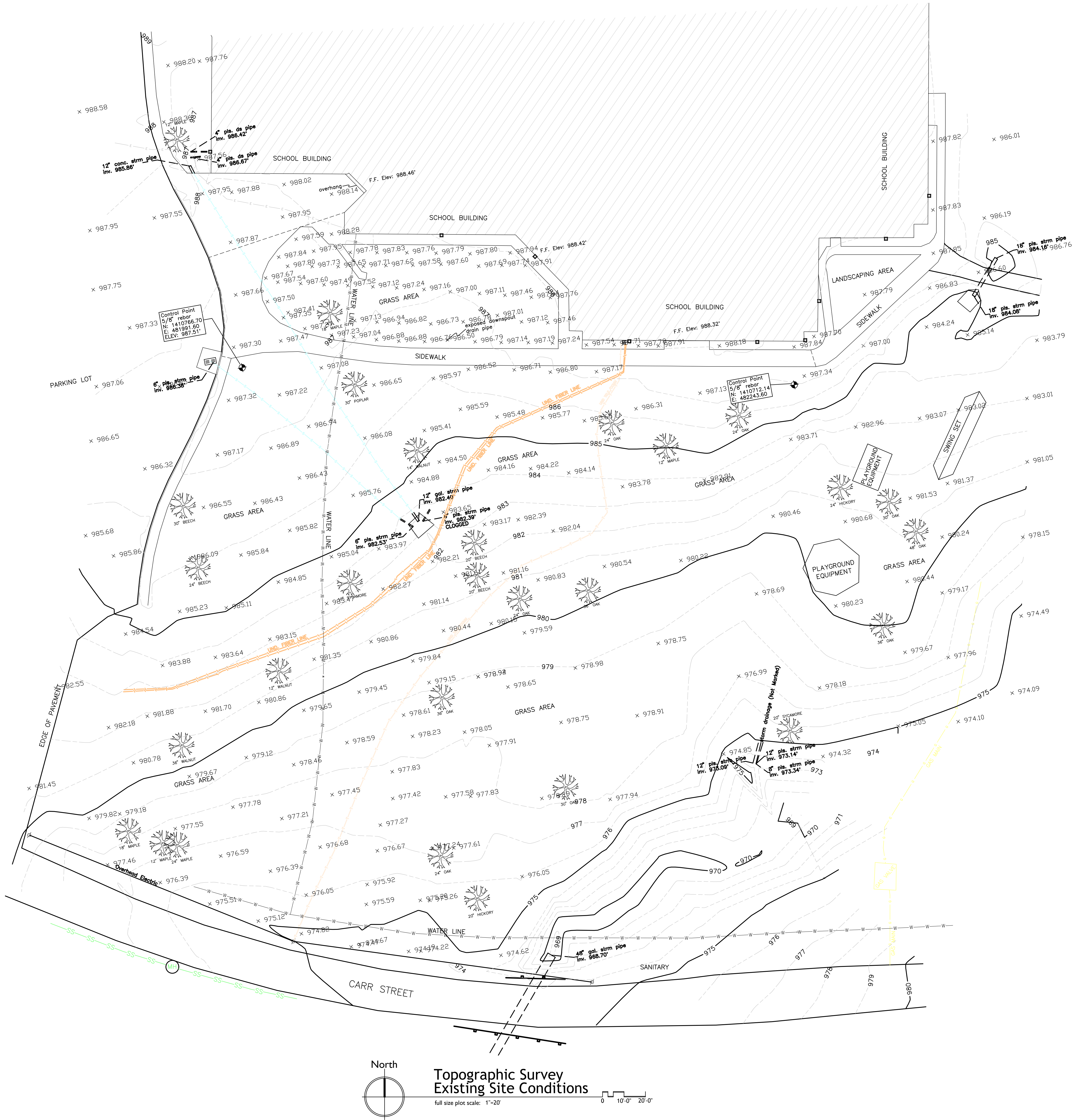
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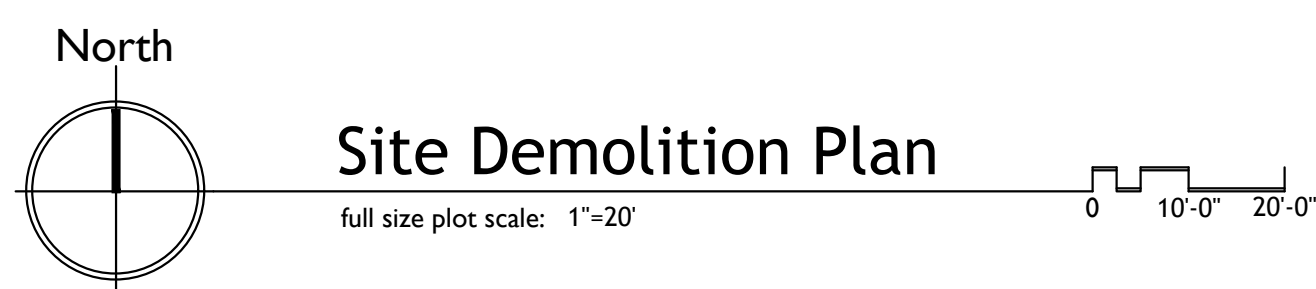
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FORESIGHT
Land Surveying
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- ELECTRIC POLE
- DOWNSPOUT
- COMMUNICATIONS BOX
- CONTROL POINT
- TREE
- SANITARY SEWER MANHOLE
- FIBER OPTIC LINE
- GAS LINE
- TELE./COMM. LINE
- STORM SEWER
- SANITARY SEWER
- UND. ELECTRIC
- WATER LINE
- GUARDRAIL

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1	REMOVE CONCRETE WALK IN ITS ENTIRETY.
2	REMOVE FLAGPOLE INCLUDING BASE
3	REMOVE TREE INCLUDING STUMP/ROOTS TO MINIMUM 24" BELOW EXISTING GRADE
4	REMOVE BUILDING DOWNSPOUTS AND UNDERGROUND DRAIN PIPING
5	REMOVE SECTION OF WATER LINE (SEE SHEET C-501)
6	UNDERGROUND FIBER LINE WILL BE RELOCATED BY OWNER
7	OWNER WILL REMOVE/RELOCATE ANALOG TELEPHONE LINE

AREA OF NEW CONSTRUCTION.

BUILDING PAD PREPARATION

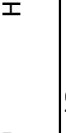
BUILDING PAD PREPARATION

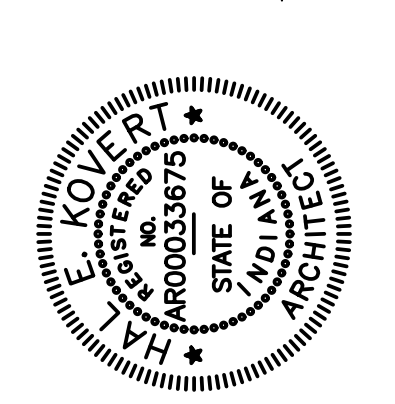
1. CUT NEW CONSTRUCTION AREA TO REMOVE ALL ORGANIC TOPSOIL (MINIMUM 12" BELOW EXISTING GRADE)
2. UPON COMPLETION OF SUBGRADE, PROOF ROLL AREA WITH GEOTECHNICAL ENGINEER PRESENT.
3. REMOVE ANY SOFT AREAS, BACKFILL, AND COMPACT WITH INDOT NO. 53 CRUSHED STONE.
4. CONTINUE TO BUILD UP PAD USING INDOT NO. 53 CRUSHED STONE UP TO ELEVATION 94'-4".
5. 4" INDOT NO. 8 CRUSHED STONE DRAINAGE FILL SHALL CAP THE BASE

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Revisions	1	Drawn	HK
	2		
	3	Checked By	HK
	4	Project No.	25128.01
	5	Date	04/25/2025
	6		
Certified By			

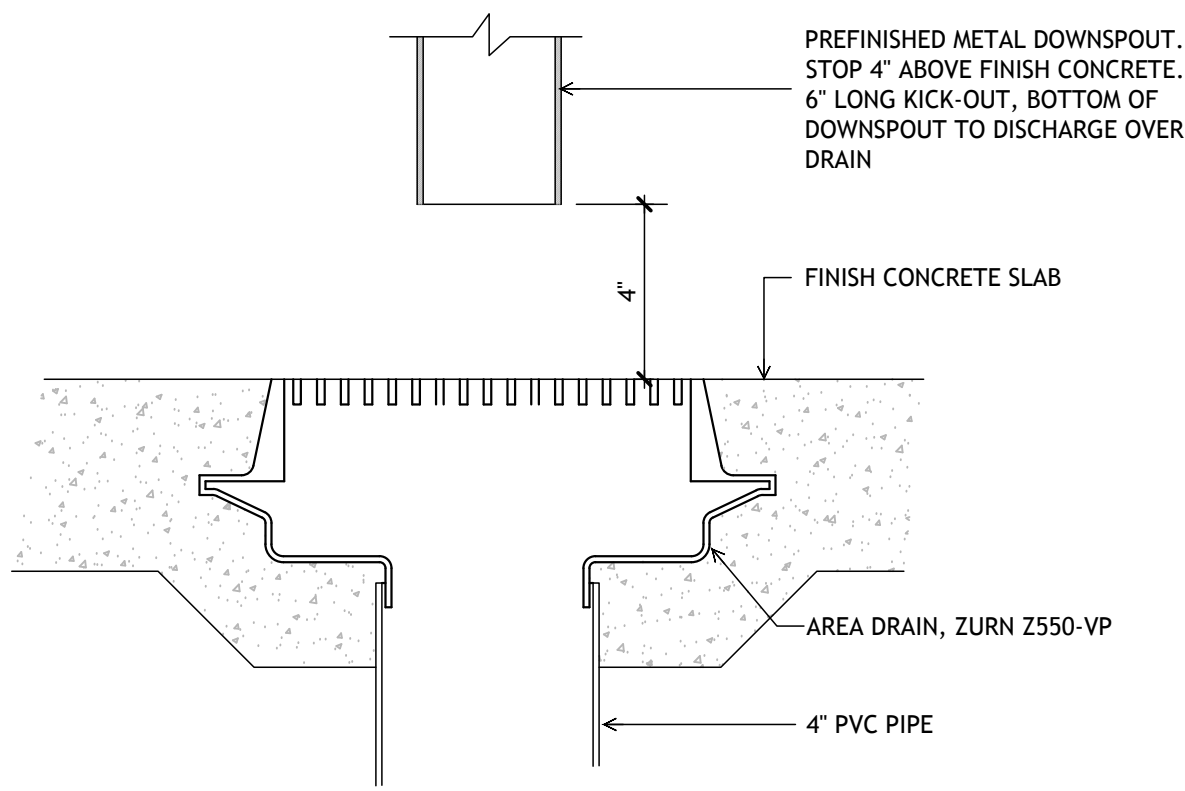


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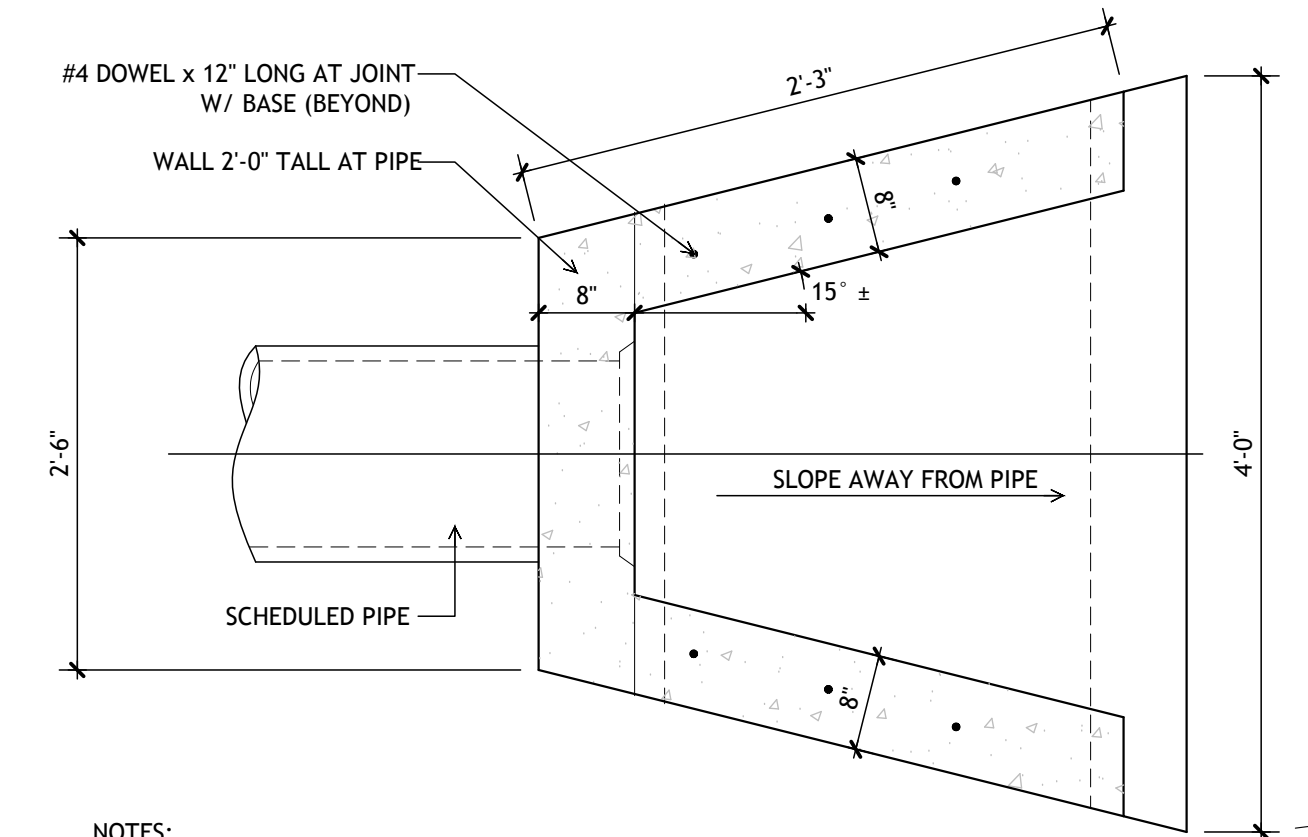
Sheet

C-002

Site Demolition Plan

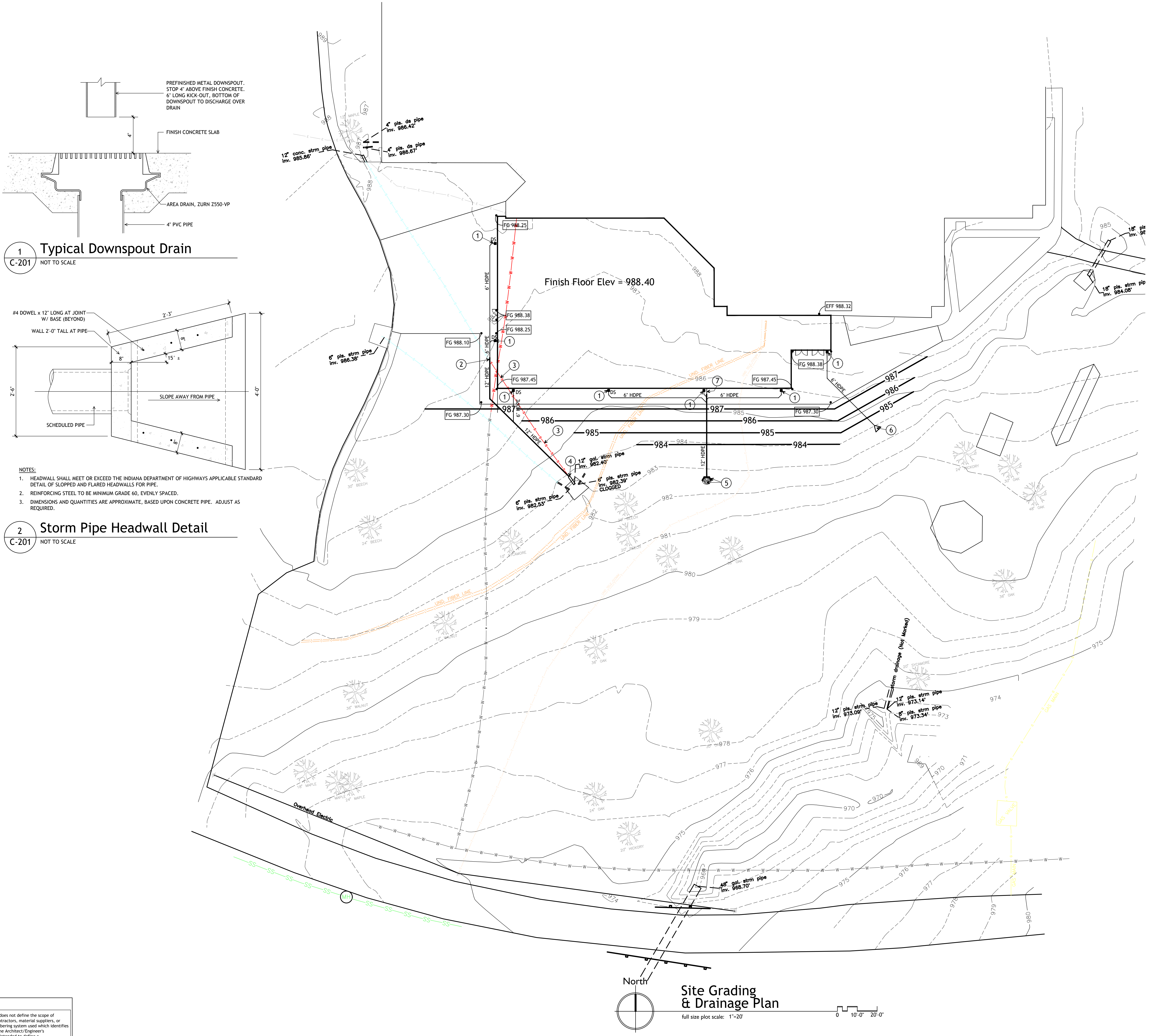


1 Typical Downspout Drain
C-201 NOT TO SCALE



- NOTES:
- HEADWALL SHALL MEET OR EXCEED THE INDIANA DEPARTMENT OF HIGHWAYS APPLICABLE STANDARD DETAIL OF SLOPED AND FLARED HEADWALLS FOR PIPE.
 - REINFORCING STEEL TO BE MINIMUM GRADE 60, EVENLY SPACED.
 - DIMENSIONS AND QUANTITIES ARE APPROXIMATE, BASED UPON CONCRETE PIPE. ADJUST AS REQUIRED.

2 Storm Pipe Headwall Detail
C-201 NOT TO SCALE

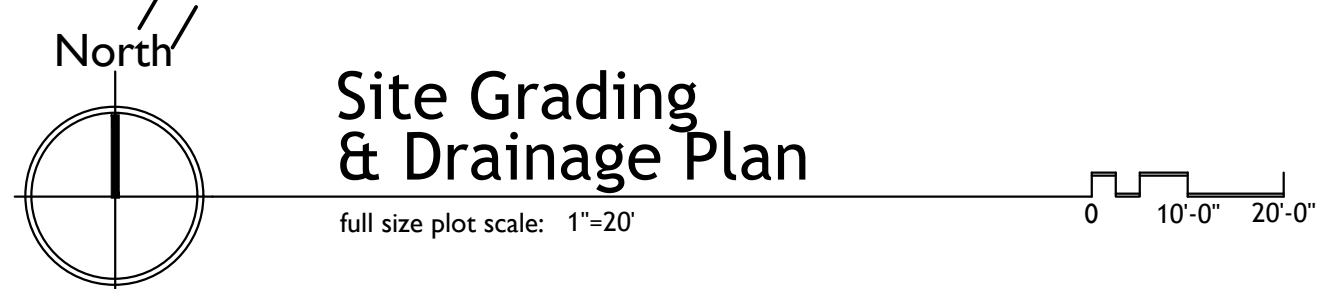


Legend

EXISTING CONTOURS	680
FINISH CONTOURS	680
CURB: TOP ELEVATION	TC xxx.xx
FINISH GRADE SPOT ELEVATION	FG xxx.xx
FINISH FLOOR ELEVATION	FFE xxx.xx
EXISTING CURB TOP ELEVATION	ETC xxx.xx
EXISTING FINISH GRADE SPOT ELEVATION	EFG xxx.xx

- Site Storm Drainage Notes
- DOWNSPOUT DRAIN IN CONCRETE WALK. SEE DETAIL 1/C-201
 - INTERCEPT EXISTING 12" CMP AND CONNECT TO NEW 12" HDPE PIPE.
 - REMOVE ABANDONED SECTION OF CMP
 - CONNECT NEW 12" HDPE PIPE TO EXISTING HEADWALL
 - NEW PRECAST CONCRETE HEADWALL (SEE DETAIL 2/C-201). INSTALL SMALL RIP-RAP TO PROVIDE ENERGY DISAPATION OF STORM WATER.
 - HDPE FLARED END
 - 6" PVC PIPE STORM LINE FOR INTERIOR ROOF DRAINS. CONNECT TO NEW 12" STORM PIPE

- ELECTRIC POLE
- DOWNSPOUT
- COMMUNICATIONS BOX
- CONTROL POINT
- TREE
- SANITARY SEWER MANHOLE
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Revisions

1	HK	Drawn
2	HK	Checked By
3		Project No.
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25128.01
04/25/2025

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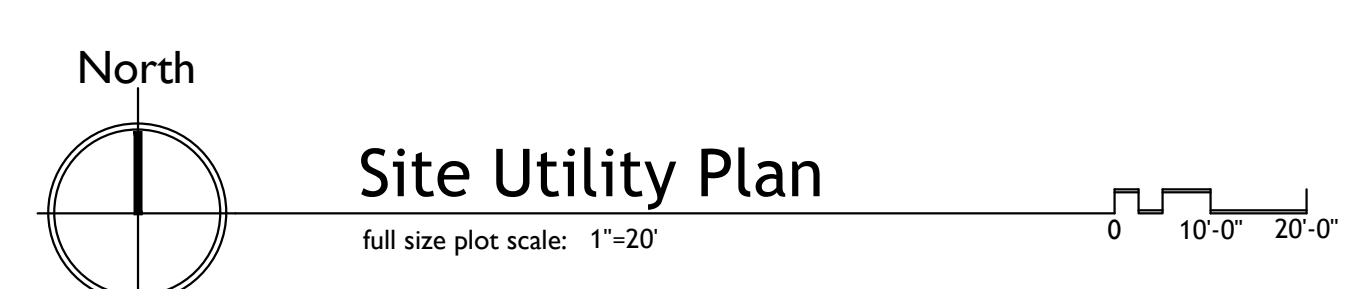
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Sheet

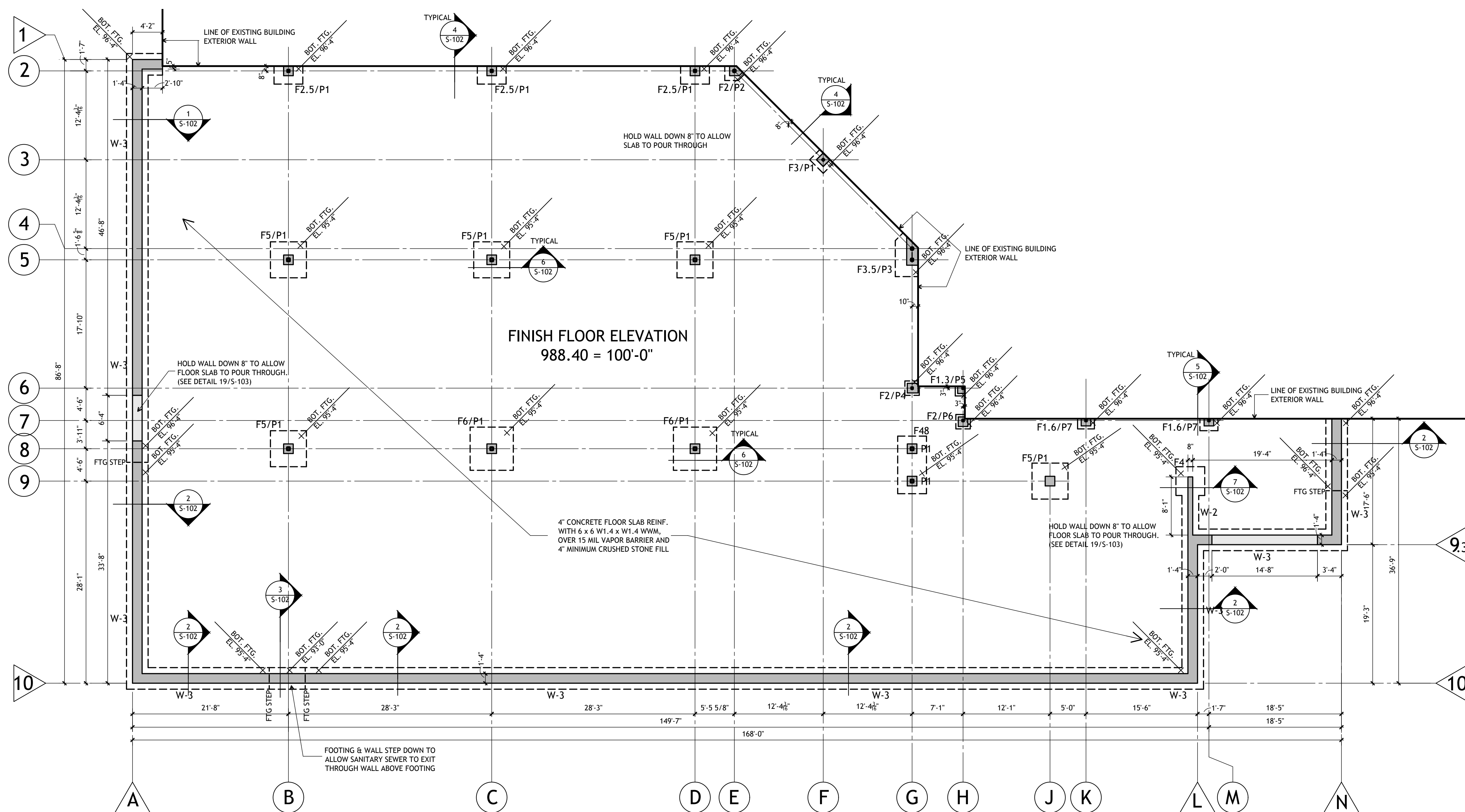
C-201

Site Grading
& Drainage Plan



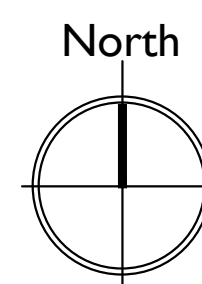
Column Footing Schedule		
IDEN	SIZE	REINFORCING
F-1.3	1'-4" x 1'-4" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-1.6	1'-5" x 2'-4" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-2	2'-0" x 2'-0" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-2.5	2'-6" x 4'-0" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-3	2'-0" x 2'-8" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-3.5	3'-2" x 5'-0" x 16"	#5 @ 12" C/C E.W., MAX TOP #5 @ 6" C/C E.W., MAX BOTTOM
F-4	4'-0" x 4'-0" x 12"	#5 @ 8" C/C E.W., MAX BOTTOM
F-5	5'-0" x 5'-0" x 16"	#5 @ 12" C/C E.W., MAX TOP #5 @ 6" C/C E.W., MAX BOTTOM
F-6	6'-0" x 6'-0" x 16"	#5 @ 12" C/C E.W., MAX TOP #5 @ 6" C/C E.W., MAX BOTTOM
F-48	4'-0" x 8'-0" x 16"	#5 @ 12" C/C E.W., MAX TOP #5 @ 6" C/C E.W., MAX BOTTOM

Foundation Notes



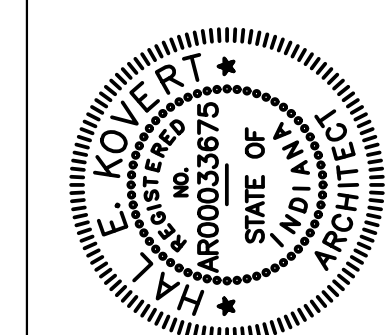
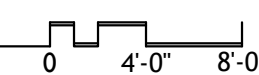
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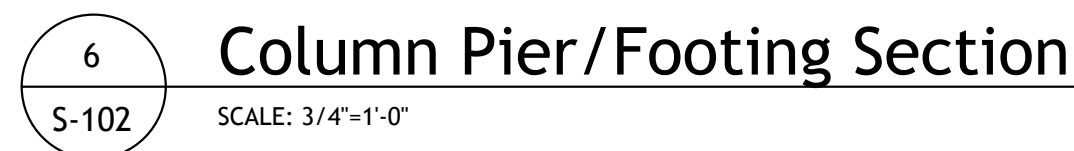
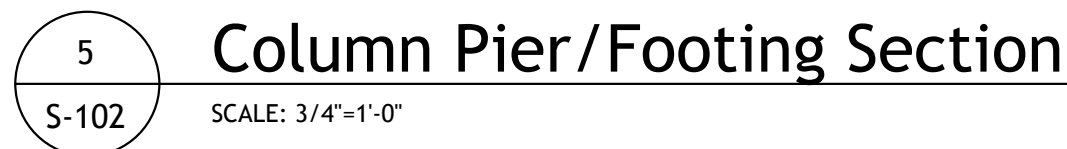
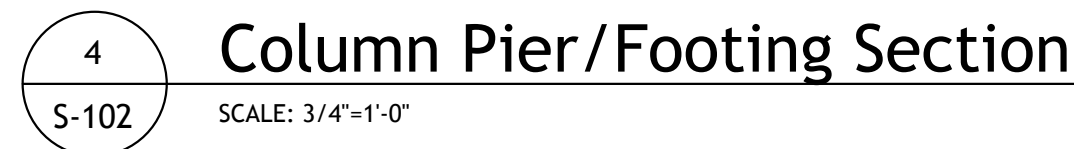


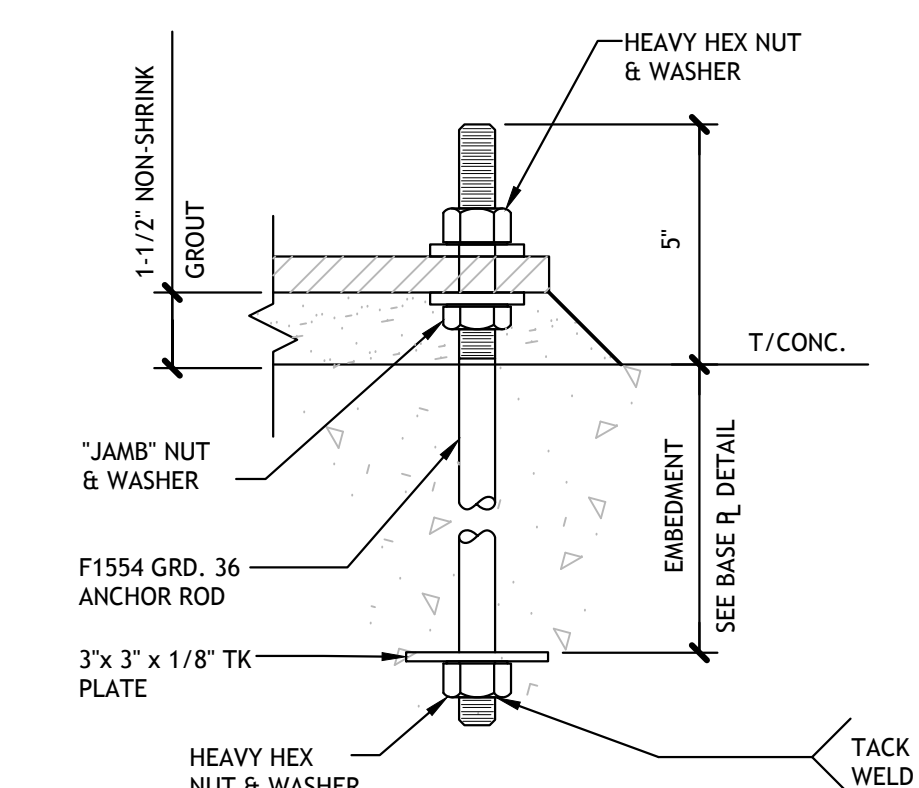
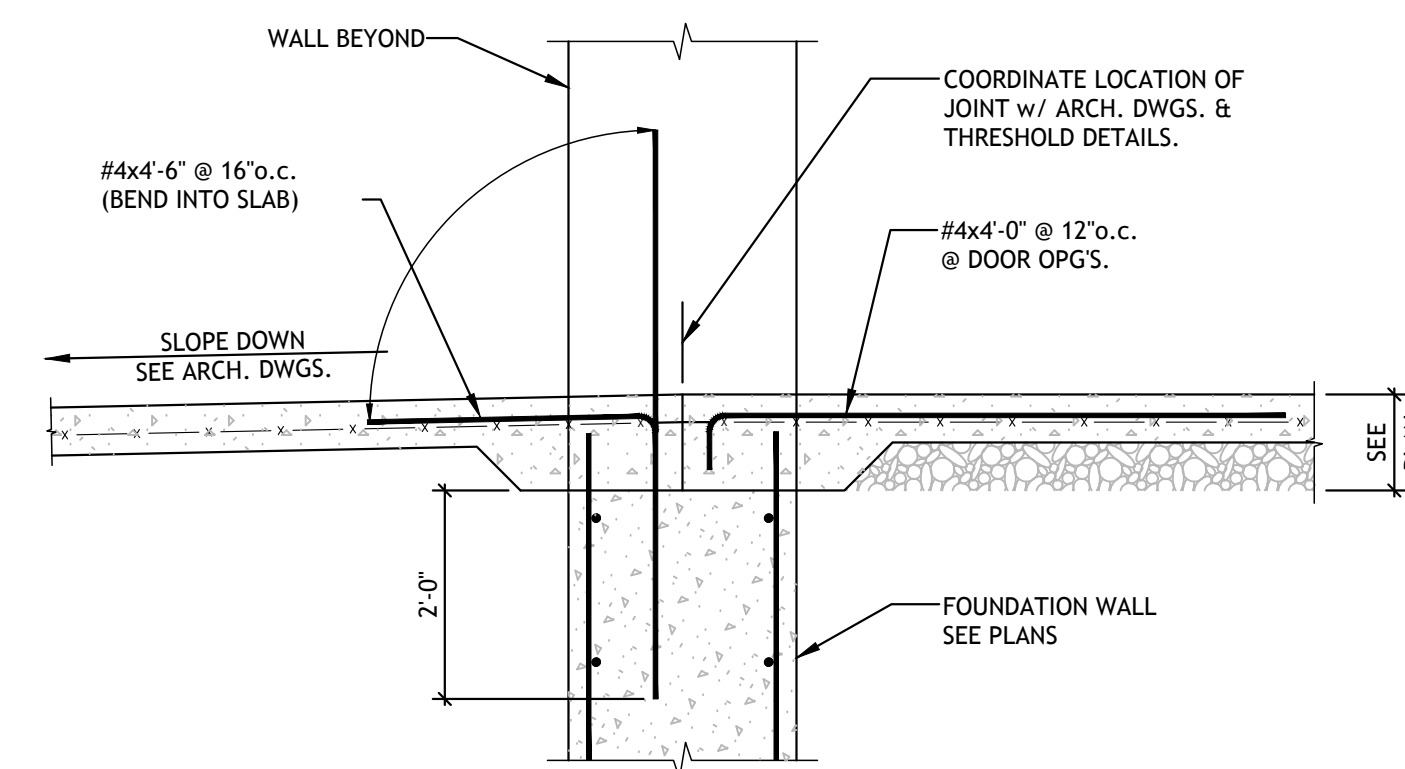
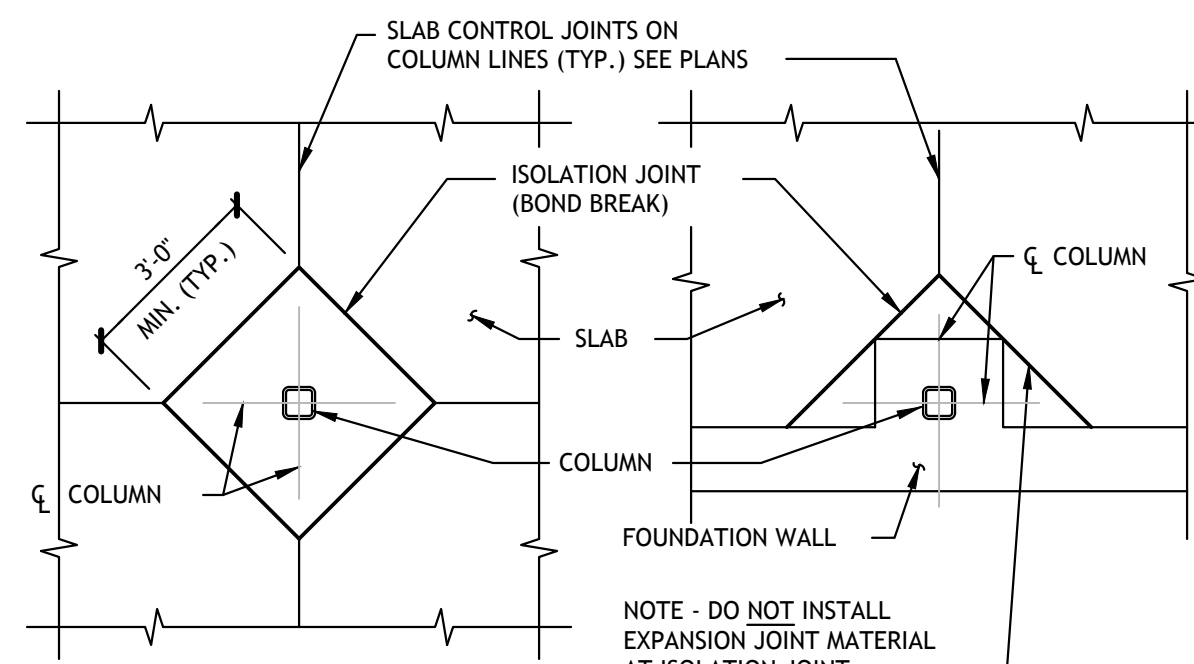
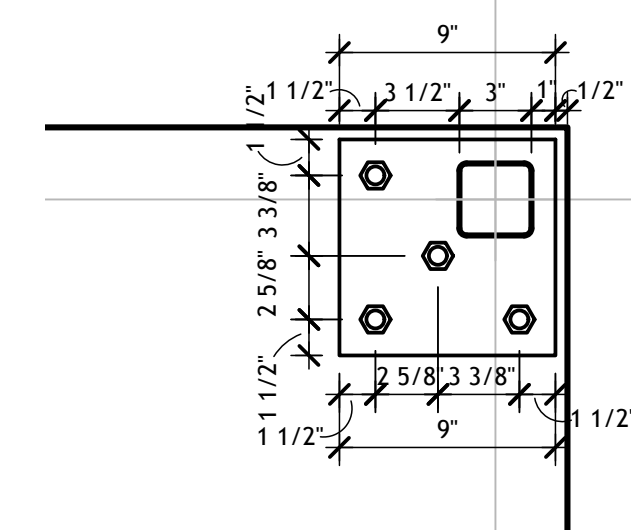
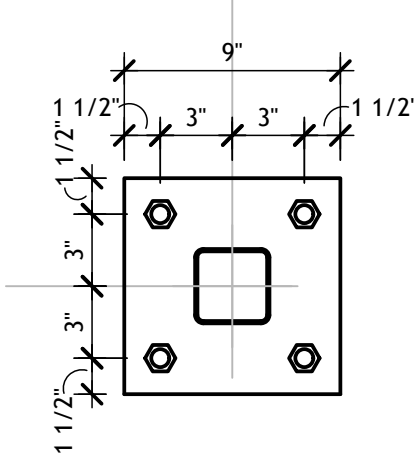
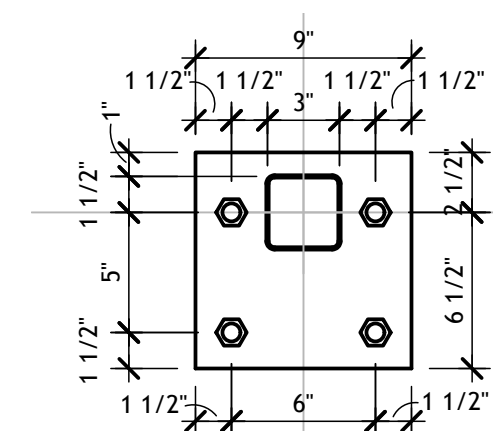
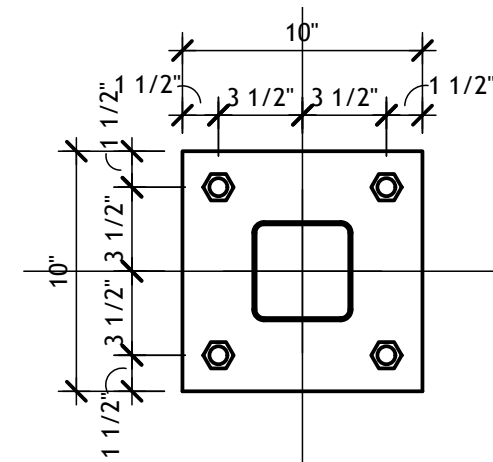
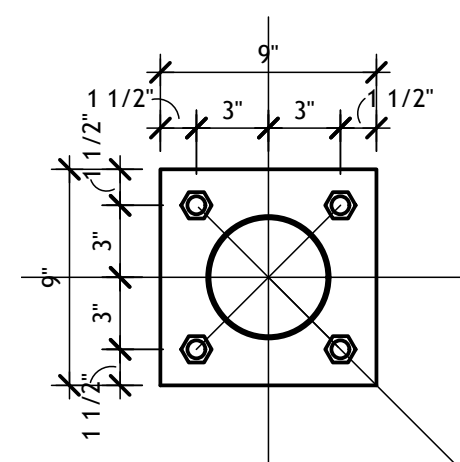
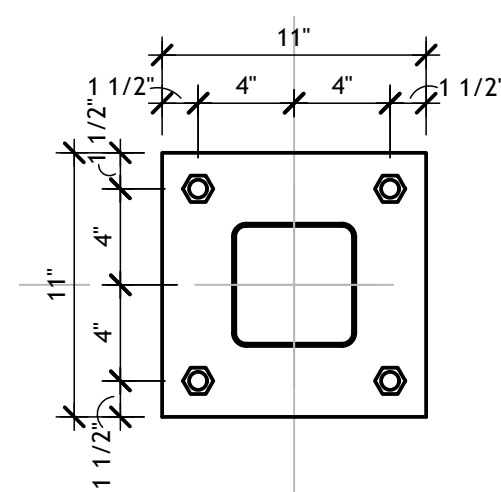
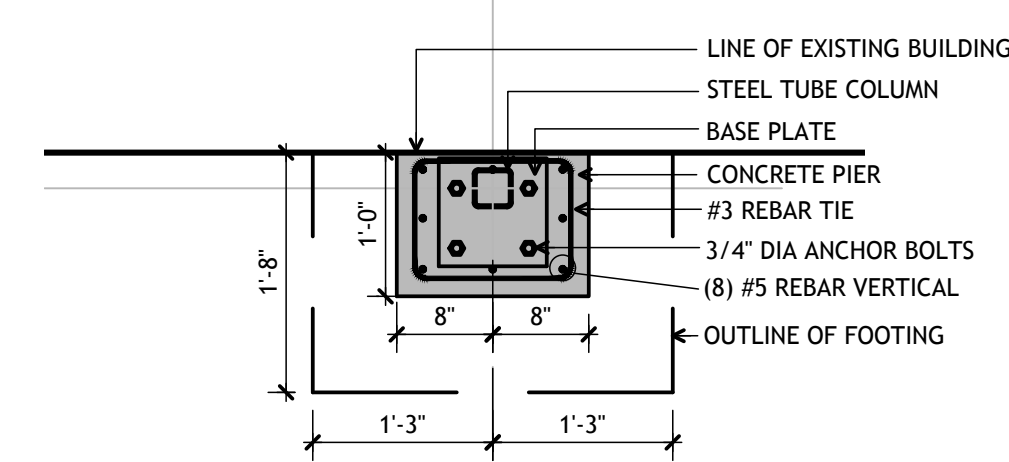
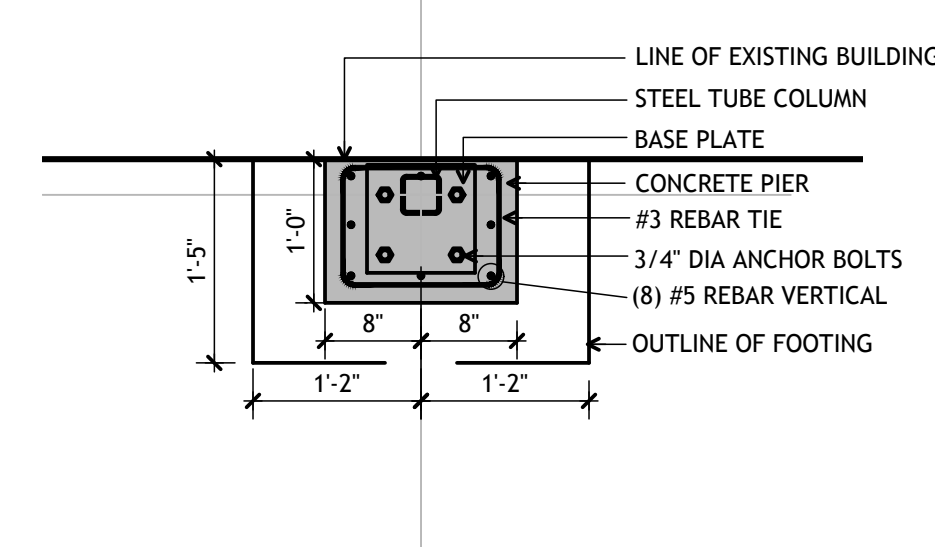
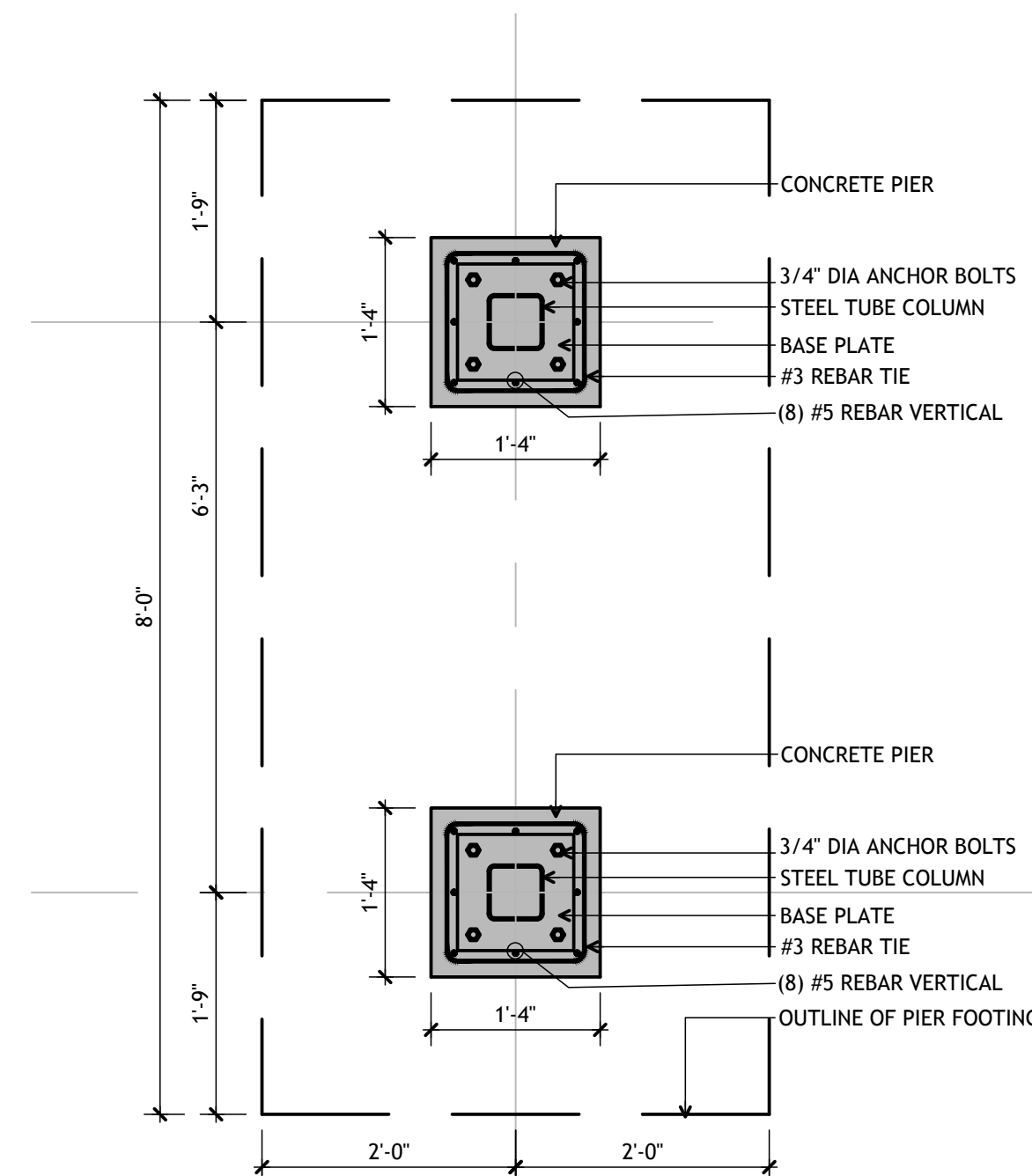
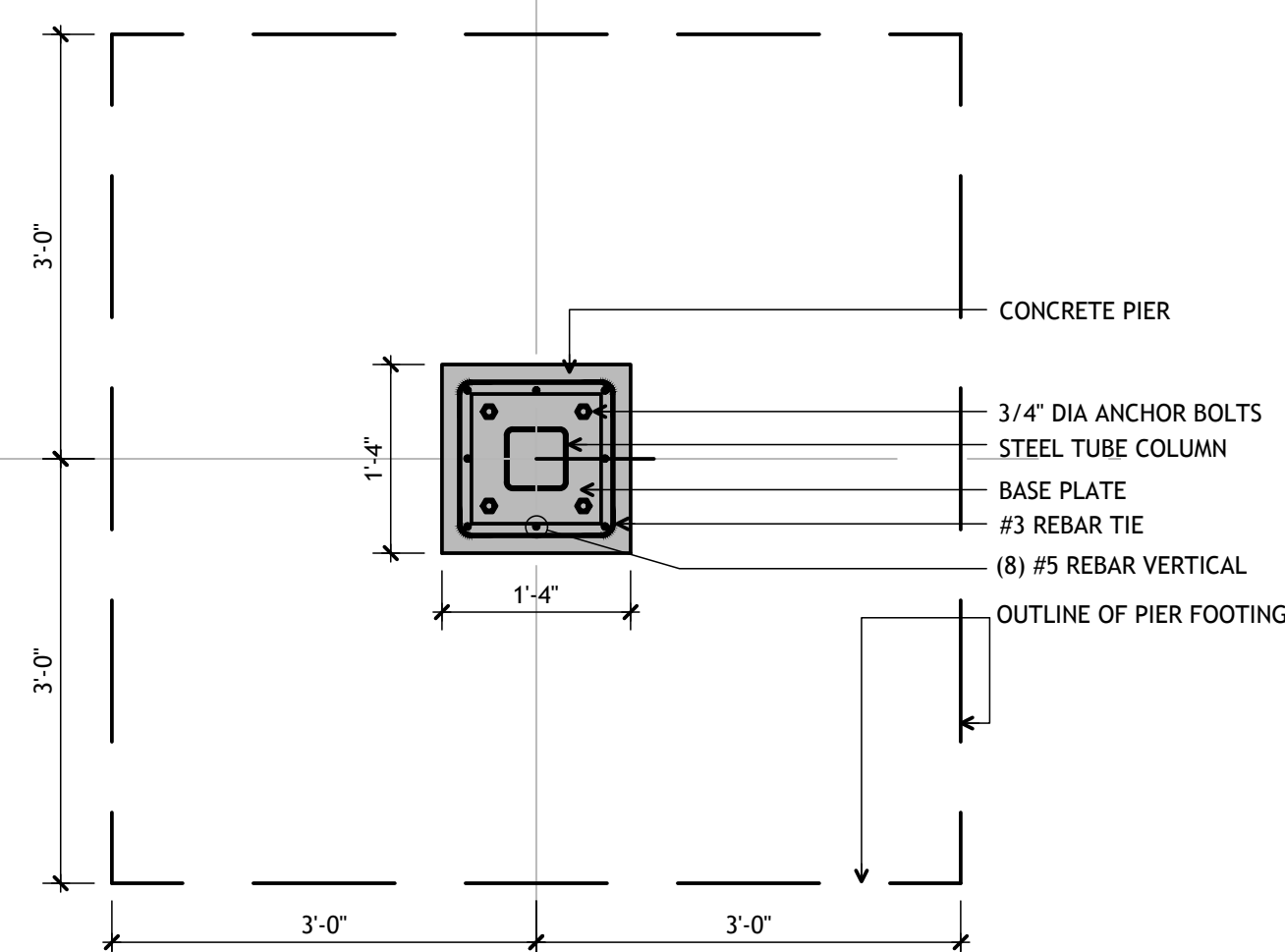
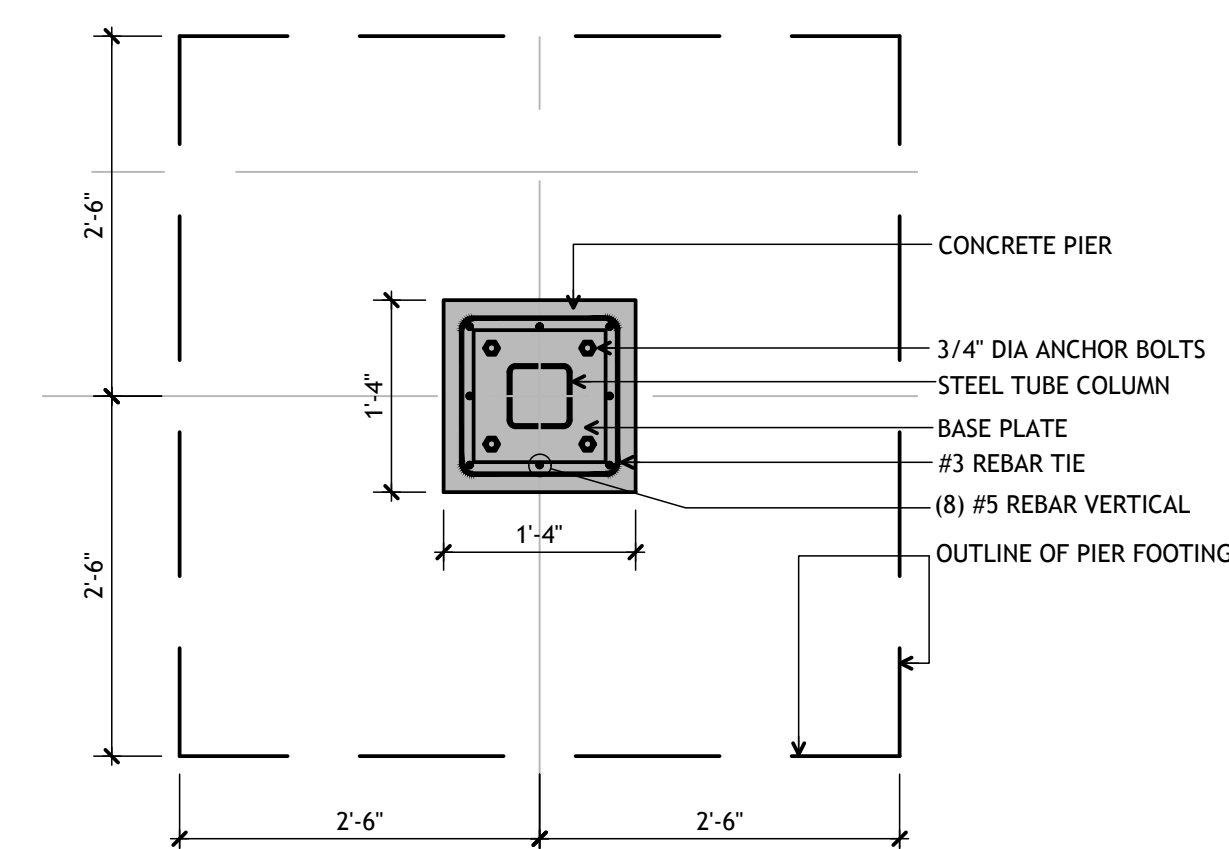
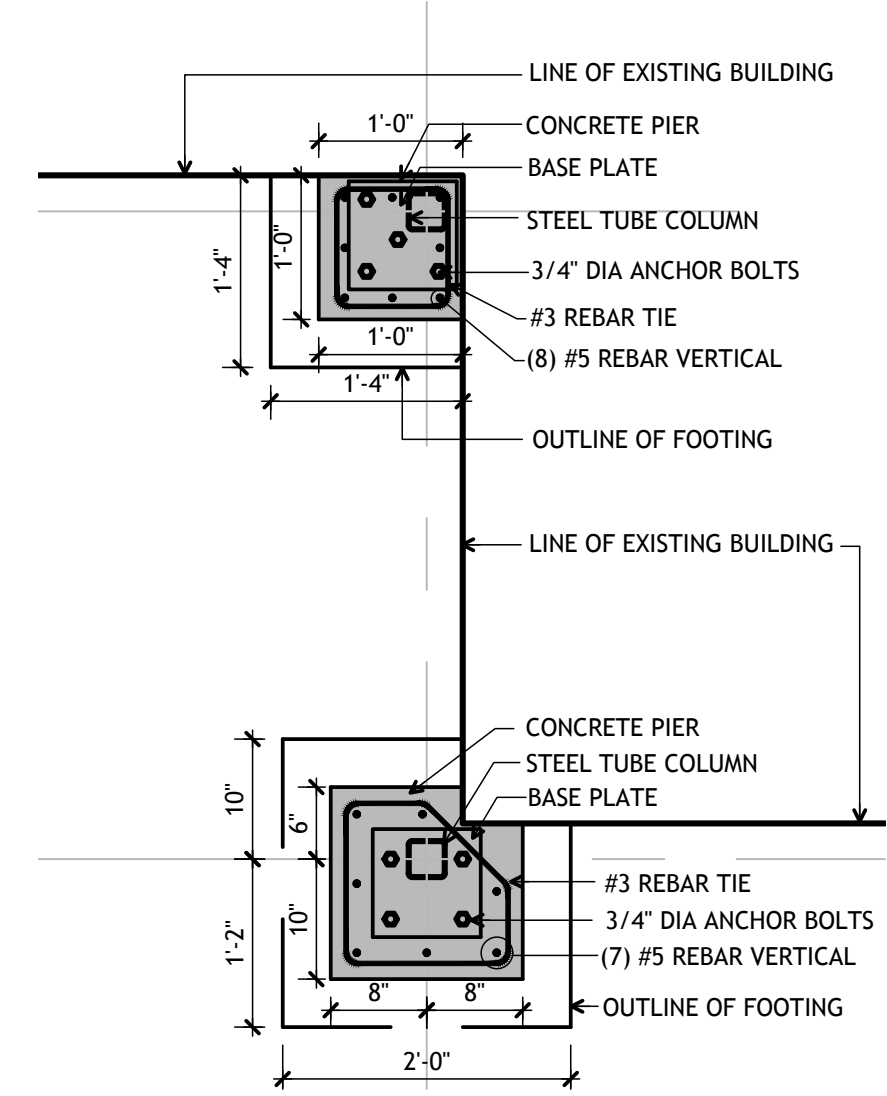
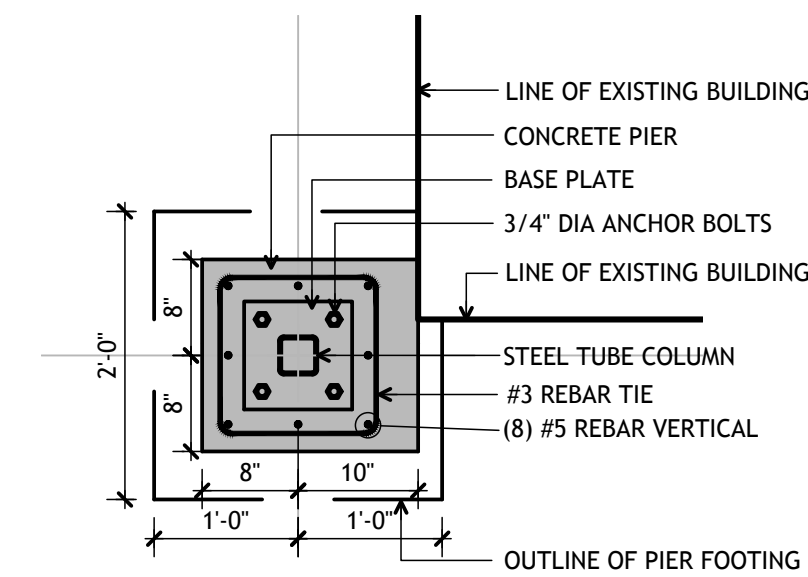
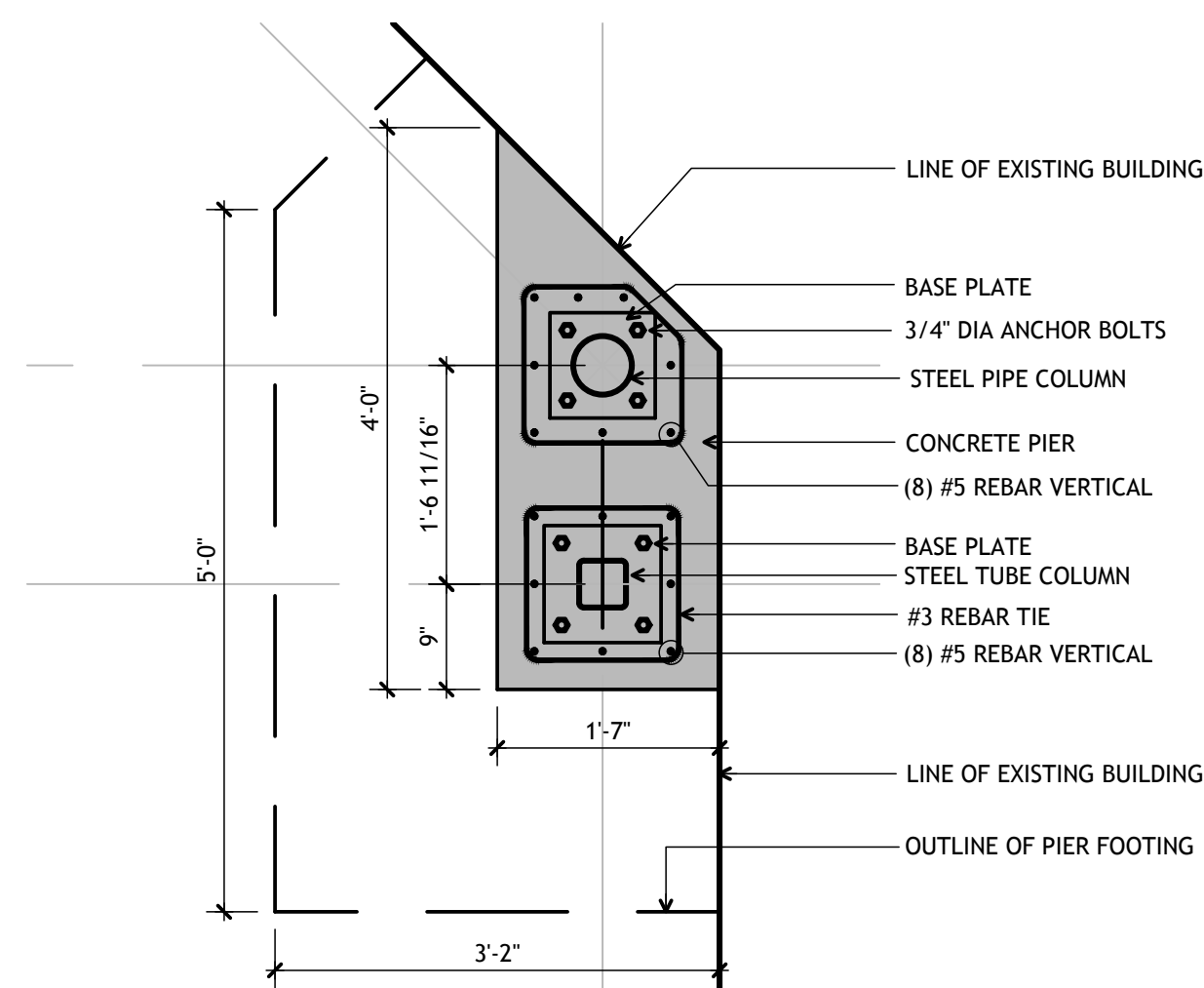
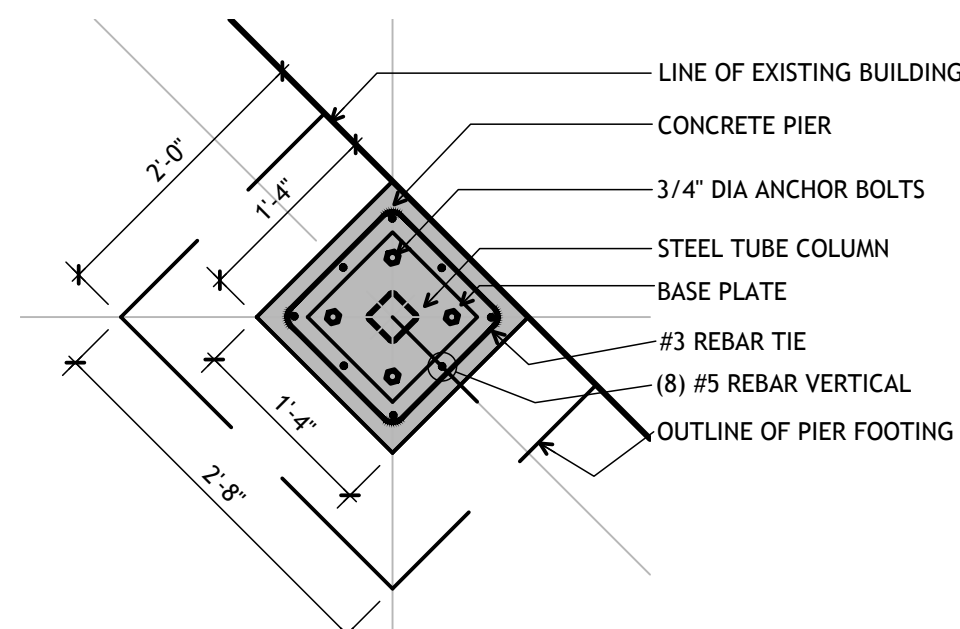
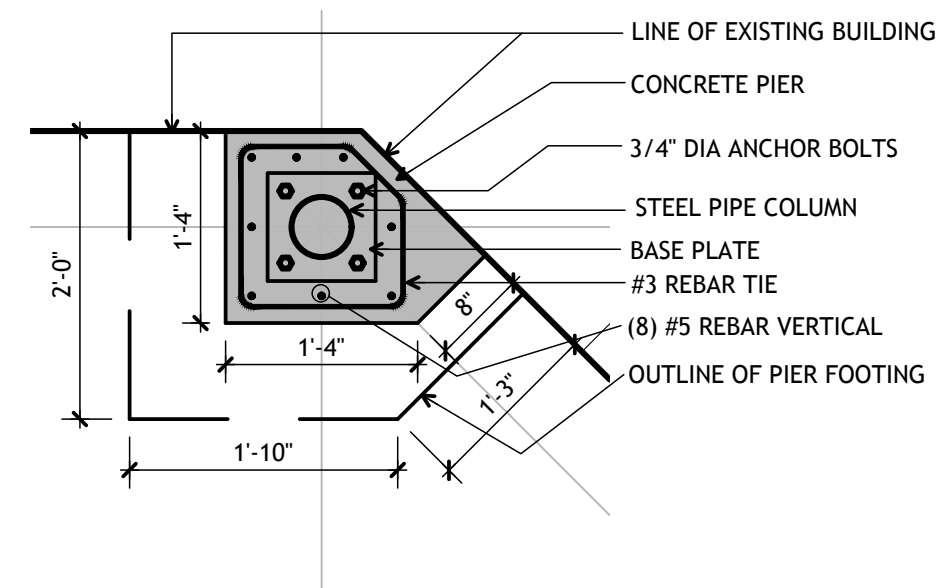
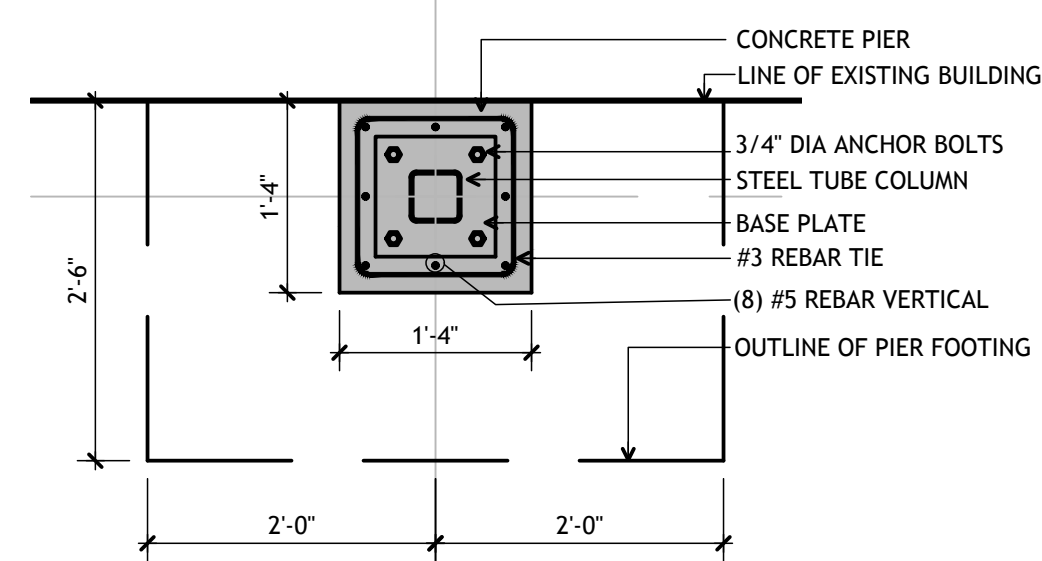
Foundation Plan

full size plot scale: 1/8"=1'-0"



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Structural Framing Notes

STRUCTURAL STEEL NOTES:

- ALL ROLLED STEEL PLATES, SHAPES (EXCLUDING WIDE FLANGE SHAPES), BARS AND MISCELLANEOUS ITEMS SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A36 (MINIMUM YIELD 36,000 PSI), WIDE FLANGE SHAPES SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A992 (MINIMUM YIELD 50,000 PSI).
- TUBULAR STEEL MEMBERS SHALL COMPLY WITH ASTM A500, GRADE B (MINIMUM YIELD 46,000 PSI)
- STEEL PIPE COLUMNS SHALL COMPLY WITH ASTM A500, GRADE B (MINIMUM YIELD 42,000 PSI).
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM F1582, TYPE 1 TWIST-OFF-TYPE TENSION-CONTROL BOLTS IN BEARING-TYPE CONNECTIONS.
- ANCHOR RODS SHALL COMPLY WITH ASTM F1554, GRADE 36.
- EXPANSION ANCHORS IN GROUTED CMU SHALL BE HILTI CARBON STEEL KWIK BOLT 3 ANCHORS, AND EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI CARBON STEEL KWIK BOLT T2 ANCHORS, MANUFACTURED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ADHESIVE ANCHORS SHALL CONSIST OF AN HAS-E STEEL ANCHOR ROD EMBEDDED IN HIT HY200 ADHESIVE IN CONCRETE AND EMBEDDED IN HILTI HIT-HY70 IN CMU SUPPLIED BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- WELDED HEADED STUDS TO BE USED AS CONCRETE ANCHORS OR SHEAR STUDS SHALL BE LOW CARBON STEEL SOLID FLUXED STUDS COMPLYING WITH ASTM A-108, WITH A MINIMUM FU=60KSI. STUDS SHALL BE AUTOMATICALLY END WELDED. THE SPECIFIED LENGTH IS THE AFTER WELD LENGTH (AWL).
- DEFORMED BAR ANCHORS (DBA): LOW CARBON STEEL PERE ASTM A496 (FU=80KSI), SHALL BE AUTOMATICALLY END WELDED.
- ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED TO PERFORM EACH TYPE OF WELD REQUIRED. ALL WELDS AND WELDING PROCEDURES SHALL COMPLY WITH AWS D1.1, USING E70XX ELECTRODES UNLESS NOTED OTHERWISE.
- WELD SIZES NOT SHOWN ON DESIGN DRAWINGS SHALL BE MINIMUM SIZE REQUIRED BY AWS D1.1 (LATEST EDITION) ACCORDING TO THE MATERIAL THICKNESS BEING WELDED. ALL WELDS SHALL BE PRE-QUALIFIED PER AWS D1.1 (LATEST EDITION).
- STEEL FRAMEWORK SHALL NOT BE ASSUMED STRUCTURALLY STABLE UNTIL ALL MEMBERS ARE IN PLACE AND CONNECTIONS ARE INSTALLED. ANY USE OF THE PARTIALLY ERECTED FRAMEWORK FOR TEMPORARY SUPPORT OF ANY KIND SHALL BE DONE ONLY AT THE CONTRACTOR'S RISK.
- COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED HEREIN:
 - A.I.S.C. "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIGES."
 - A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS."
 - A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS."
 - AWS "STRUCTURAL WELDING CODE"
- ALL BEAM/COLUMN CONNECTIONS SHALL BE DESIGNED BY A STRUCTURAL PROFESSIONAL ENGINEER, REGISTERED IN INDIANA, RETAINED BY THE STEEL FABRICATOR. ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE DULY STAMPED AND SIGNED BY THE REGISTERED STRUCTURAL ENGINEER AND SUBMITTED FOR REVIEW BY THE ARCHITECT. STAMPING AND SIGNING OF SHOP DRAWINGS SHALL BE FOR THE EXCLUSIVE PURPOSE OF CERTIFYING THAT THE CONNECTIONS ARE DETAILED AS PER THE DESIGN PERFORMED BY THE REGISTERED STRUCTURAL ENGINEER RESPONSIBLE FOR THE CONNECTION DESIGN. FAILURE TO SUBMIT STAMPED AND SIGNED CALCULATIONS AND STAMPED AND SIGNED SHOP DRAWINGS SHALL BE SUFFICIENT CAUSE FOR REJECTION OF SHOP DRAWINGS. THE CONTRACTOR SHALL BE LIABLE FOR THE DIMENSION, FIT, TOLERANCES, FABRICATION AND ERECTION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL STEEL CONNECTION DETAILS WITH THE ARCHITECTURAL SECTIONS AND DETAILS TO ASSURE THAT NO CONNECTION PLATES, ANGLES, BOLTS, ETC. PROTRUDE INTO THE FINISHED SPACE OR INTERRUPT THE INTEGRITY OF THE BUILDING'S INSULATED ENVELOPE. REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.

BEAM TO BEAM CONNECTIONS SHALL CONSIST OF STANDARD DOUBLE ANGLE BOLTED AND/OR WELDED CONNECTIONS. CONNECTIONS FOR WIDE FLANGE BEAMS TO SQUARE OR RECTANGULAR HSS COLUMNS SHALL BE DESIGNED USING WT SHAPES CLIPS. UNLESS OTHERWISE INDICATED, ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE BEAM LOAD CAPACITY AS GIVEN IN AISC TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" (AISC MANUAL, 4TH EDITION)

LENGTH OF CONNECTION ANGLES FOR BEAM-TO-COLUMN CONNECTIONS SHALL BE THE LARGEST STANDARD LENGTH LESS THAN OR EQUAL TO THE "T" DIMENSION OF THE BEAM. STANDARD LENGTHS OF CONNECTION ANGLES ARE FOUND IN "A.I.S.C. MANUAL OF STEEL CONSTRUCTION", 4TH EDITION, TABLES 10.1 THRU 10.3.

UNLESS SHOWN OTHERWISE, ALL COLUMNS SHALL HAVE A BASE PLATE AND A CAP PLATE. BASE PLATES SHALL HAVE A MINIMUM THICKNESS OF 3/4". ALL CAP PLATES SHALL HAVE A MINIMUM THICKNESS OF 5/8".

PROVIDE VERTICAL WEB STIFFENERS ON EACH SIDE OF BEAM AT ALL POINTS SUBJECTED TO CONCENTRATED LOADS, SUCH AS A COLUMN RESTING ON A BEAM AND BEAM FRAMING INTO A BEAM. THE STIFFENERS SHALL EXTEND TO THE FULL DEPTH OF THE BEAM AND THE BOUNDARY OF THE FLANGE. MINIMUM THICKNESS OF 3/8".

ANY CAMBER EXISTING IN BEAMS SHALL BE TURNED POSITIVE UPWARD.

BURNING HOLES IN STRUCTURAL STEEL IS NOT PERMITTED.

MAINTAIN WORK IN A SAFE AND STABLE CONDITION DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING MEMBERS AS REQUIRED, WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINES TO ACHIEVE PROPER ALIGNMENT AND STABILITY OF THE STRUCTURE AS ERECTION PROCEEDS.

MOMENT CONNECTIONS DESIGNATED ON THE DRAWINGS SHALL BE DESIGNED BY THE STEEL SUPPLIER IN ACCORDANCE WITH AISC "MANUAL OF STEEL CONSTRUCTION". THE CONNECTION SHALL BE DESIGNED FOR THE MOMENT AND BEAM VERTICAL LOAD INDICATED ON THE FRAMING PLANS.

HIGH STRENGTH BOLTED CONNECTIONS AND WELDED CONNECTIONS SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY. ALL COMPLETE PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED BY A QUALIFIED INSPECTOR. INSPECTION AND TESTING WILL BE PAID FOR BY THE OWNER.

SHOP PRIME ALL STRUCTURAL STEEL (EXCEPT STEEL TO RECEIVE FIREPROOFING) WITH STANDARD RED OR GRAY PRIMER TO A MINIMUM OF 2 MIL DRY FILM THICKNESS, U.N.O. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE PRIMED WITH ZINC CHROMATE CONTAINING A MINIMUM OF 6% ZINC CHROMATE SOLIDS.

STEEL JOISTS NOTES

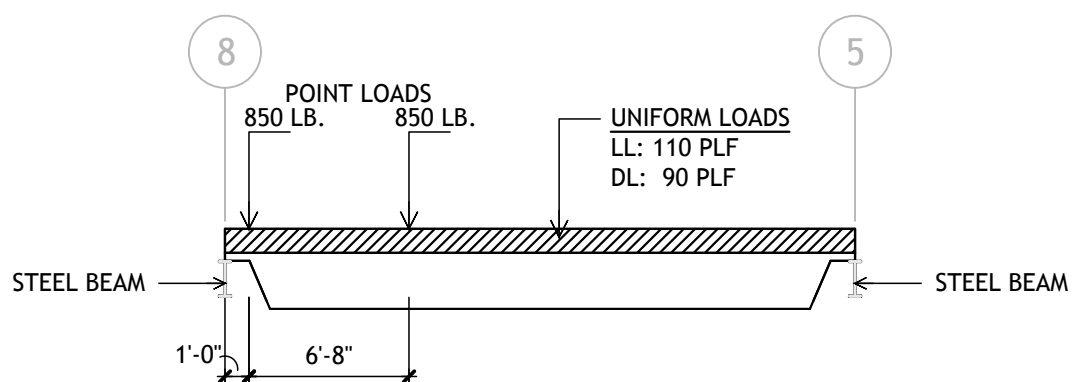
- STEEL JOISTS SHALL MEET ALL REQUIREMENTS OF THE S.J.I. AND A.I.S.C. STANDARD SPECIFICATIONS FOR THE TYPE AND SERIES SHOWN.
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST S.J.I. AND A.I.S.C. SPECIFICATIONS. JOIST DESIGN SHALL BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER.
- DESIGN OF STEEL JOISTS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER REGISTERED IN INDIANA INDICATING THE MANUFACTURER'S NAME, JOIST LAYOUT, AND DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS AND THEIR CONNECTIONS.
- STEEL JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS FOR A NET UPLIFT (DUE TO WIND LOADING) OF 15 PSF. DIAGONAL BRIDGING OR BRACING TO LATERALLY BRACE THE BOTTOM CHORD SHALL BE PROVIDED AS REQUIRED.
- STEEL JOISTS "SPECIAL" (SPECIAL, NON-STANDARD) SHALL BE DESIGNED BY THE MANUFACTURER FOR THE LOADS INDICATED ON THE DRAWINGS. DESIGN SHALL CONFORM TO AISC AND SJI STANDARD SPECIFICATIONS AND SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.
- BRIDGING SHALL BE FURNISHED AND INSTALLED AS REQUIRED BY THE A.I.S.C. AND S.J.I. STANDARD SPECIFICATIONS AND/OR AS INDICATED ON THE PLANS. BRIDGE JOIST IMMEDIATELY AFTER ERECTION AND BEFORE CONSTRUCTING LOADS ARE APPLIED.
- THE ENDS OF BRIDGING LINES TERMINATING AT MASONRY WALLS SHALL BE ANCHORED BY STRAP ANCHORS ATTACHED TO THE WALL UNLESS OTHERWISE SHOWN OR NOTED.
- FURNISH AND INSTALL BOTTOM AND TOP CHORD LATERAL BRACING AS REQUIRED FOR STRENGTH AND STABILITY OF JOISTS AND JOIST GIRDERS.
- ENDS OF STEEL JOISTS SHALL BE ANCHORED TO THE STEEL SUPPORTS BY WELDING.
- EXTEND BOTTOM CHORD OF ALL JOISTS ON COLUMN LINES. WELD TO COLUMN AFTER ALL ROOF DEAD LOADS HAVE BEEN APPLIED.
- PROVIDE ADDITIONAL L2X2X3/16 DIAGONALS AND FIELD WELD AT ALL POINTS WHERE EQUIPMENT IS HUNG FROM THE CHORDS OF THE JOISTS. THE ANGLE SHALL EXTEND FROM THE POINT OF LOAD APPLICATION TO THE CLOSEST PANEL POINT IN THE OPPOSITE CHORD MEMBER.
- PROVIDE MISCELLANEOUS ANGLE FRAMING BETWEEN JOISTS AS REQUIRED AT ALL ROOF DRAINS AND MISCELLANEOUS ROOF PENETRATIONS.
- PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE JOIST LAYOUT, ERECTION DETAILS, CONNECTION DETAILS, BRIDGING DETAILS, MARK, TYPE, AND LOCATION.
- ALL STEEL JOISTS SHALL BE PRODUCED BY AN S.J.I. MEMBER, OR, IF PRODUCER IS NOT AN S.J.I. MEMBER, THEN SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE JOISTS WILL BE ERECTED, WHO SHALL CERTIFY THAT THE JOISTS ARE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE A.I.S.C. AND S.J.I. SPECIFICATIONS.

ROOF FRAMING PLAN NOTES:

- STRUCTURAL STEEL, JOISTS, AND JOIST GIRDERS TO HAVE GRAY PRIMER.
- ROOF NOT DESIGNED TO SUPPORT ANY FUTURE ROOF TOP EQUIPMENT - WHAT IS INDICATED INTO THE DESIGN BY THE JOIST MFG.
- "SP" DENOTES SPECIAL JOIST DESIGN. SEE DIAGRAM FOR LOADING.
- JOIST TO BE DESIGNED FOR A SEISMIC AXIAL LOAD OF 2.4 KIPS.
- "PONDING STABILITY 1" DENOTES JOIST TO BE DESIGNED WITH MIN I > 1075 IN⁴.
- "PONDING STABILITY 2" DENOTES JOIST TO BE DESIGNED WITH MIN I > 1150 IN⁴.

METAL ROOF DECK NOTES:

- 1 1/2 INCH ROOF DECK SHALL BE 20 GAUGE GALVANIZED (G90) WITH A FABRICATED DEPTH OF 1 1/2 INCHES AND A VALLEY SPACING OF 6 INCHES. DECKING SHALL BE FACTORY GALVANIZED. DECKING SHALL CONFORM TO ASTM A653-94 STRUCTURAL QUALITY GRADE 33 OR HIGHER. DECKING SHALL BE FASTENED TO STEEL SUPPORTING MEMBERS AT 12 INCHES ON CENTER, MAXIMUM SPACING, WITH NO. 12 SELF-TAPPING METAL SCREW. SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED WITH NO. 10 METAL SCREWS AT 12 INCHES ON CENTER MAXIMUM SPACING. SHEETS SHALL BE CONTINUOUS FOR AT LEAST THREE SPANS WHERE POSSIBLE.
- COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
 - A.I.S.I. "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
 - AWS D1.3 "STRUCTURAL WELDING CODE".
 - SDI "STEEL DECK DESIGN MANUAL".
- ACCESSORIES SHALL BE STANDARD WITH THE MANUFACTURER AND SHALL BE FURNISHED AS NECESSARY TO ASSURE PROPER INSTALLATION PROCEDURES ARE COMPLETE THE ROOF DECK INSTALLATION.
- ATTENTION IS CALLED TO THE FACT THAT THE METAL ROOF DECK IS DESIGNED FOR DIAPHRAGM ACTION. THEREFORE, ADDED CARE MUST BE TAKEN TO ASSUME PROPER INSTALLATION PROCEDURES ARE FOLLOWED.



16KCS Roof Joist Load Diagram
NOT TO SCALE

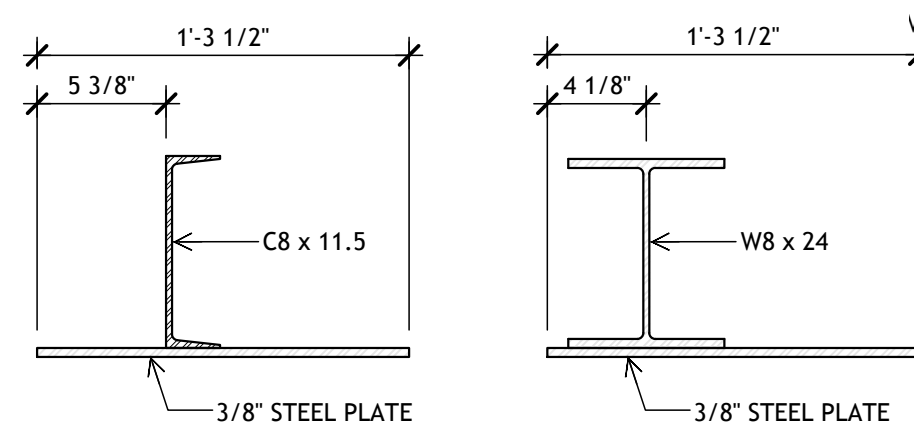
Structural Design Criteria

APPLICABLE BUILDING CODES:
2014 INDIANA BUILDING CODE (2012 MODEL IBC W/ INDIANA AMENDMENTS)
ASCE STANDARD: ASCE 7-10

PROJECT LOCATION:
MILAN, INDIANA 47031

DESIGN LOADS:

- FIRST FLOOR LIVE LOAD (SLAB ON GRADE): 100 PSF
- ROOF LIVE LOAD (MINIMUM): 20 PSF
- SNOW LOADS
 - GROUND SNOW LOAD: Pg=20 PSF
 - SNOW LOAD IMPORTANCE FACTOR: Is=1.10
- WIND LOADS
 - BASIC WIND SPEED = 120 MPH (3-SECOND GUSTS)
 - WIND IMPORTANCE FACTOR: Iw=1.00
 - EXPOSURE CATEGORY: B
- EARTHQUAKE LOADS
 - OCCUPANCY/RISK CATEGORY: III
 - SITE CLASS: D
 - SPECTRAL RESPONSE COEFFICIENTS S_s = 0.157, S_{0.1} = 0.133, S_s = 0.147, S₁ = 0.083
 - SEISMIC IMPORTANCE FACTOR: I_s = 1.25
- BASIC STRUCTURAL SYSTEM:
 - EXTERIOR MASONRY BEARING WALL SYSTEM
 - INTERIOR LOAD BEARING COLUMNS AND BEAMS
- SOIL BEARING PRESSURE: 1,500 PSF (PRE-SUMPTIVE PER IBC TABLE 1806.2)



Lintel L1

Lintel L2

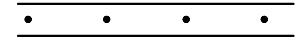
Plan Symbols



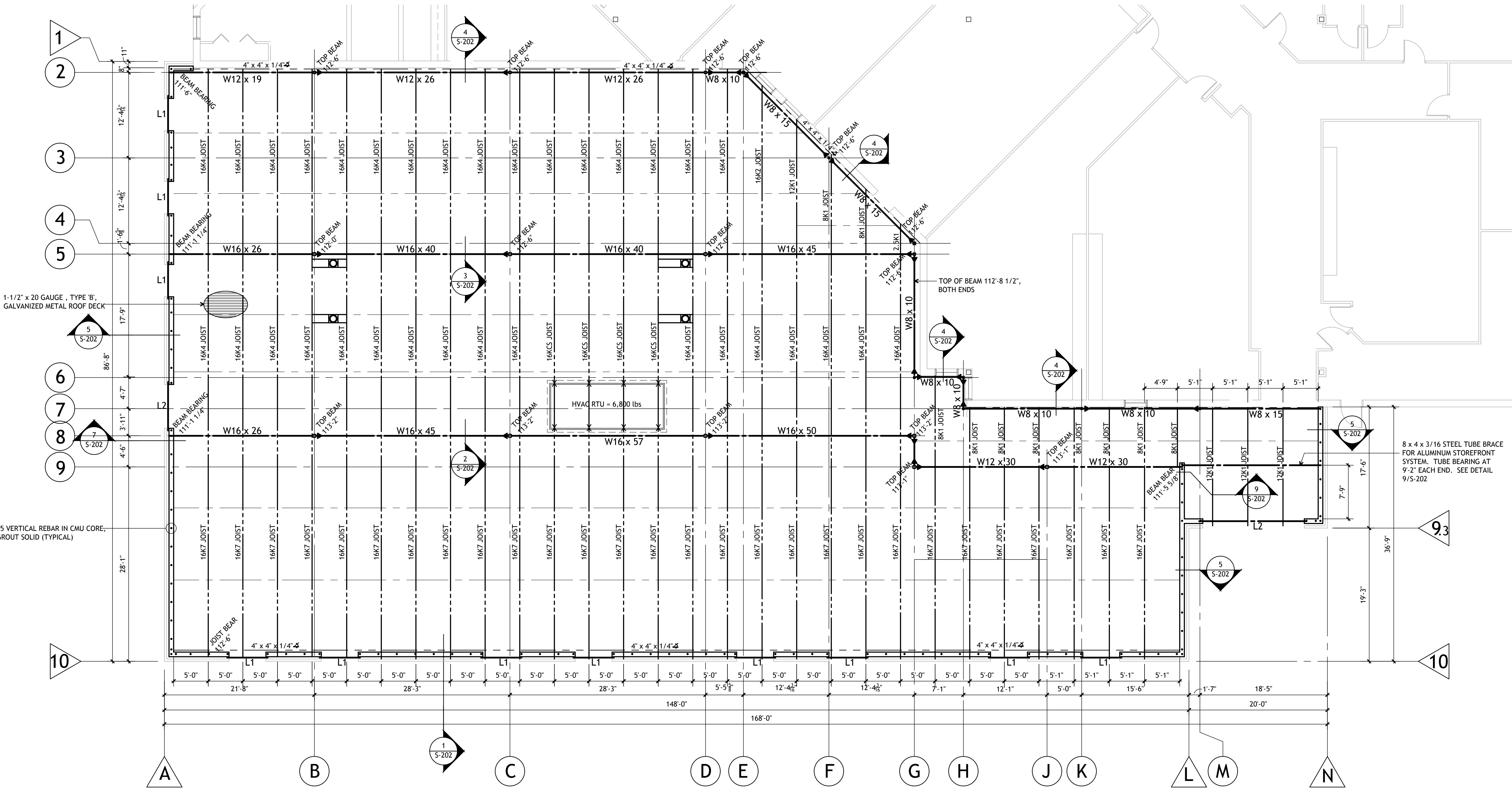
MOMENT CONNECTION



VELOCITY CONNECTION

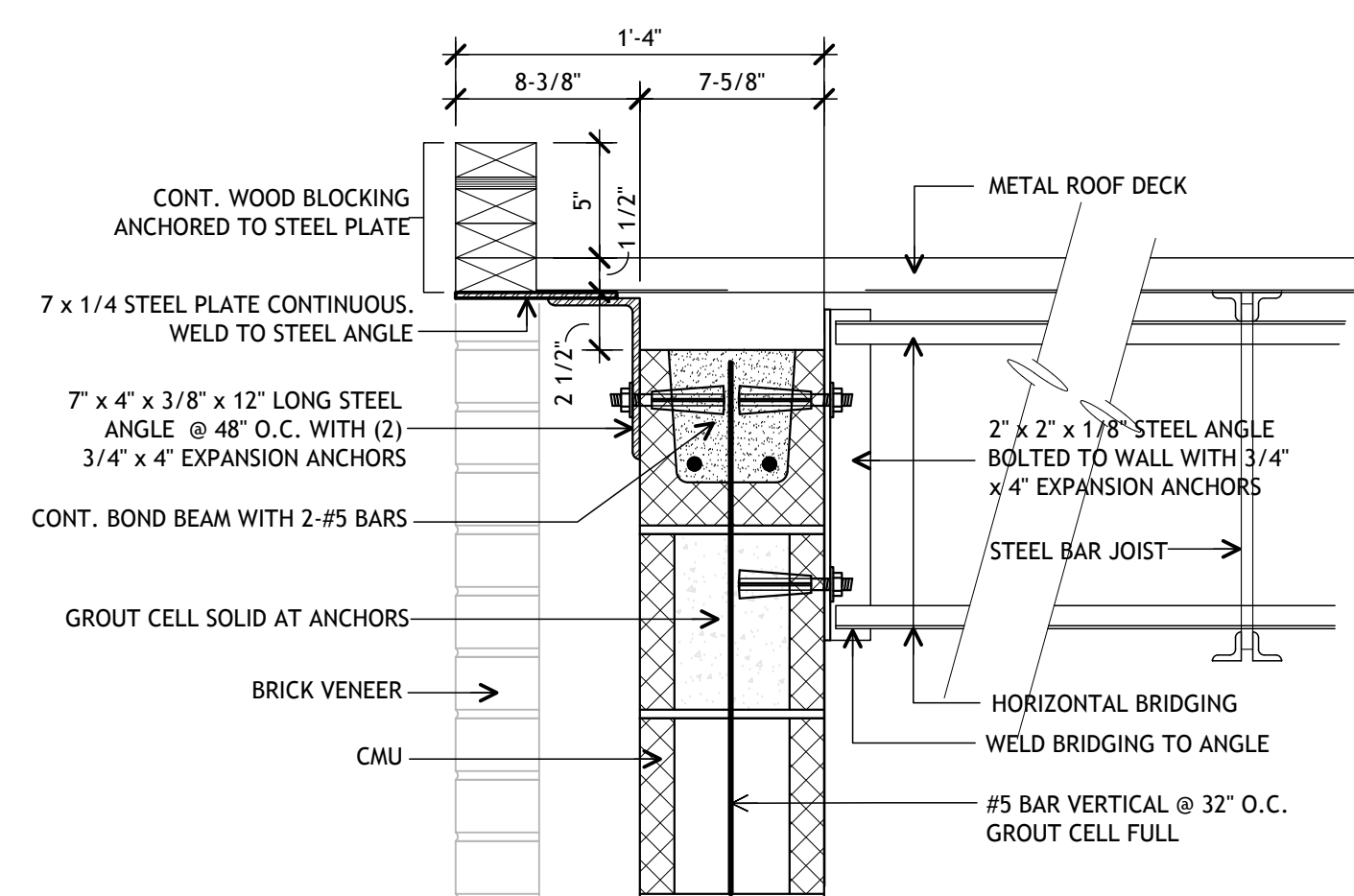


VERTICAL REBAR IN CMU

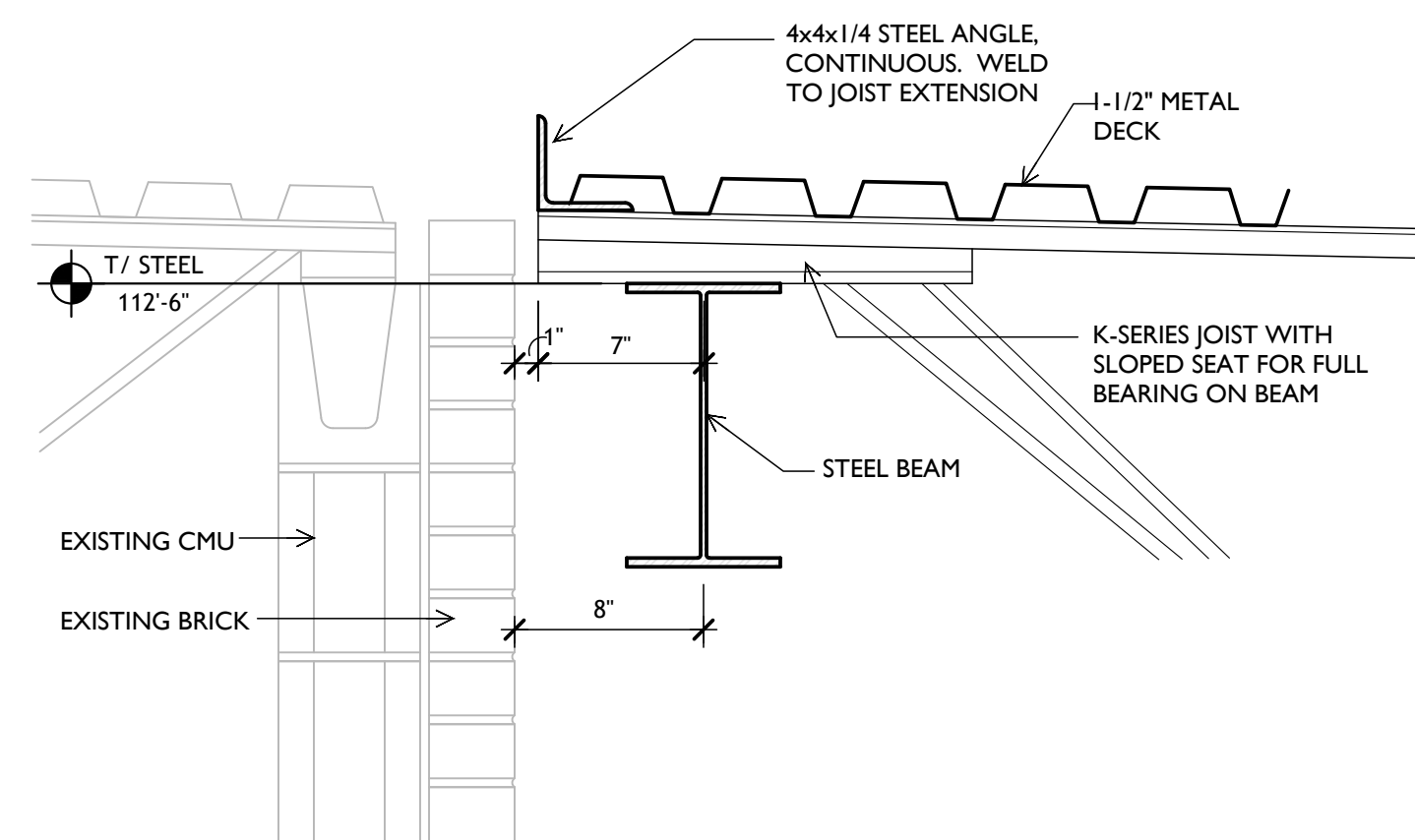


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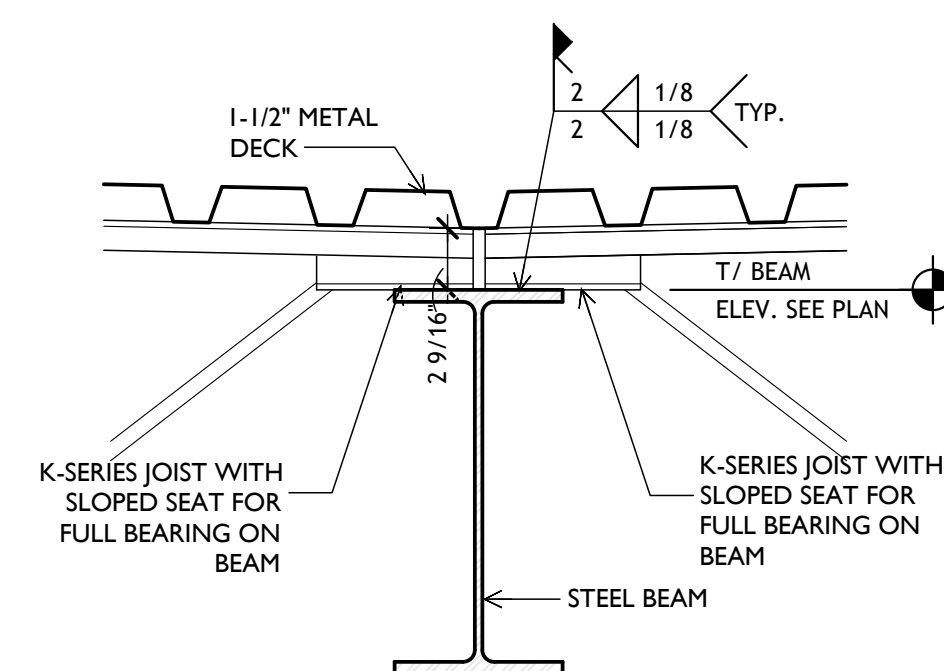
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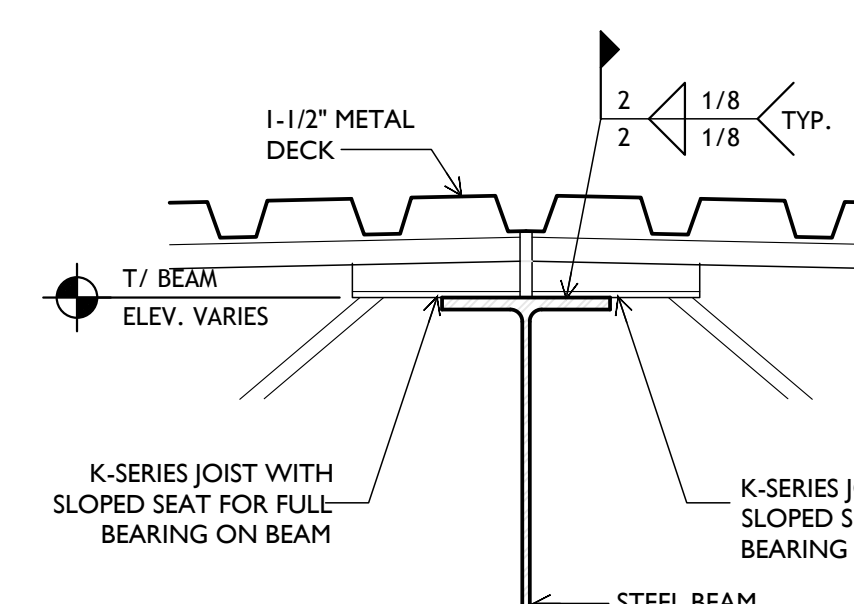
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S-202



4
S-202

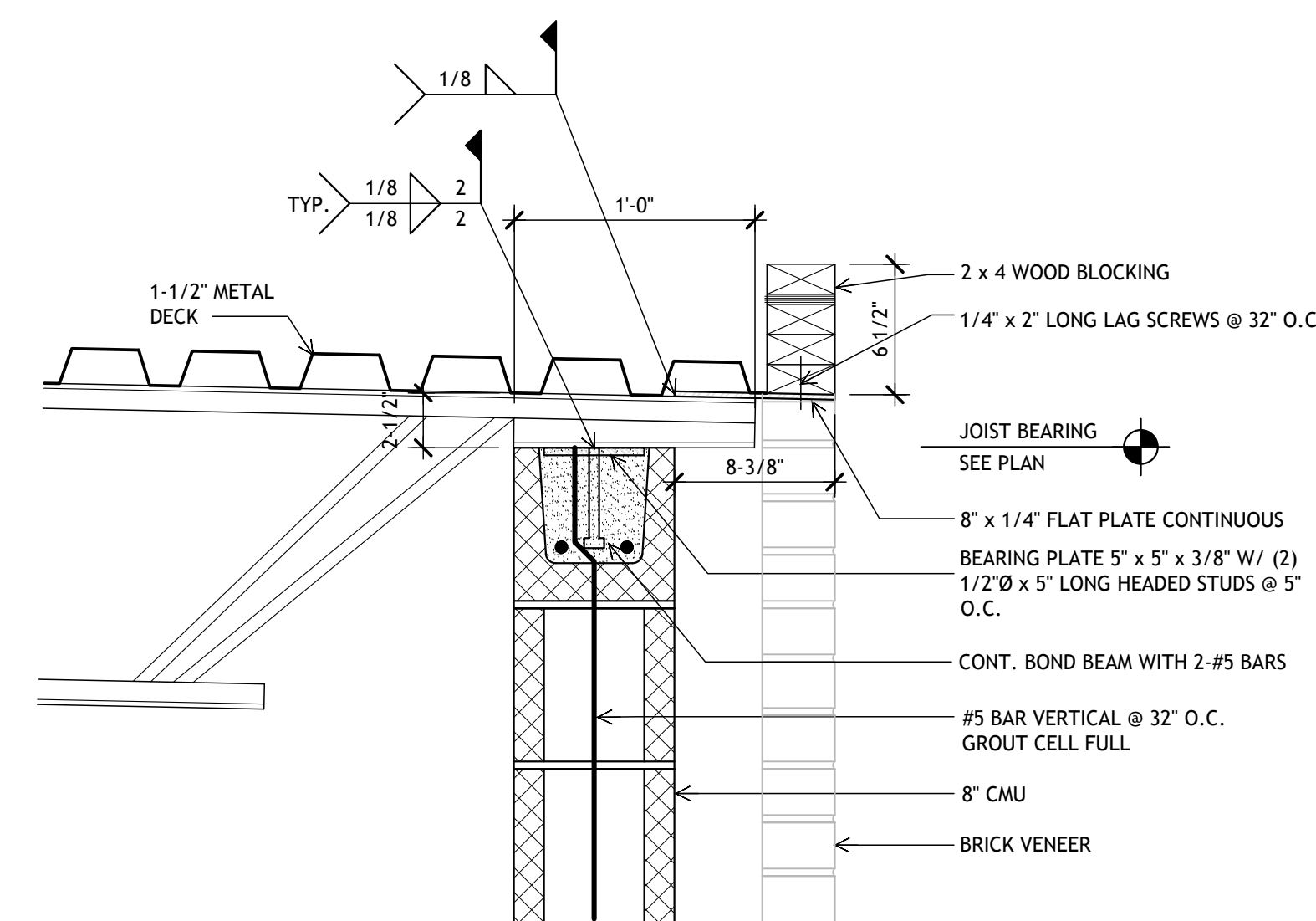


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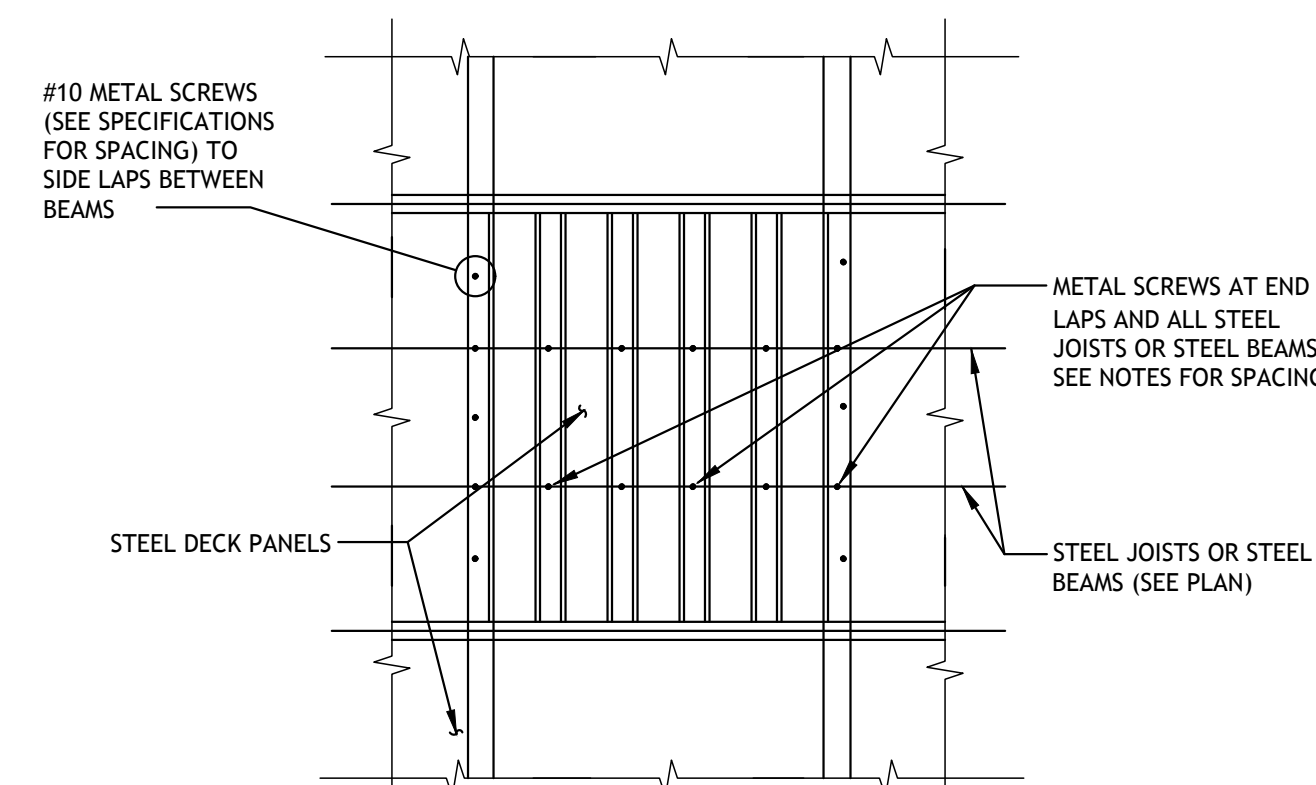


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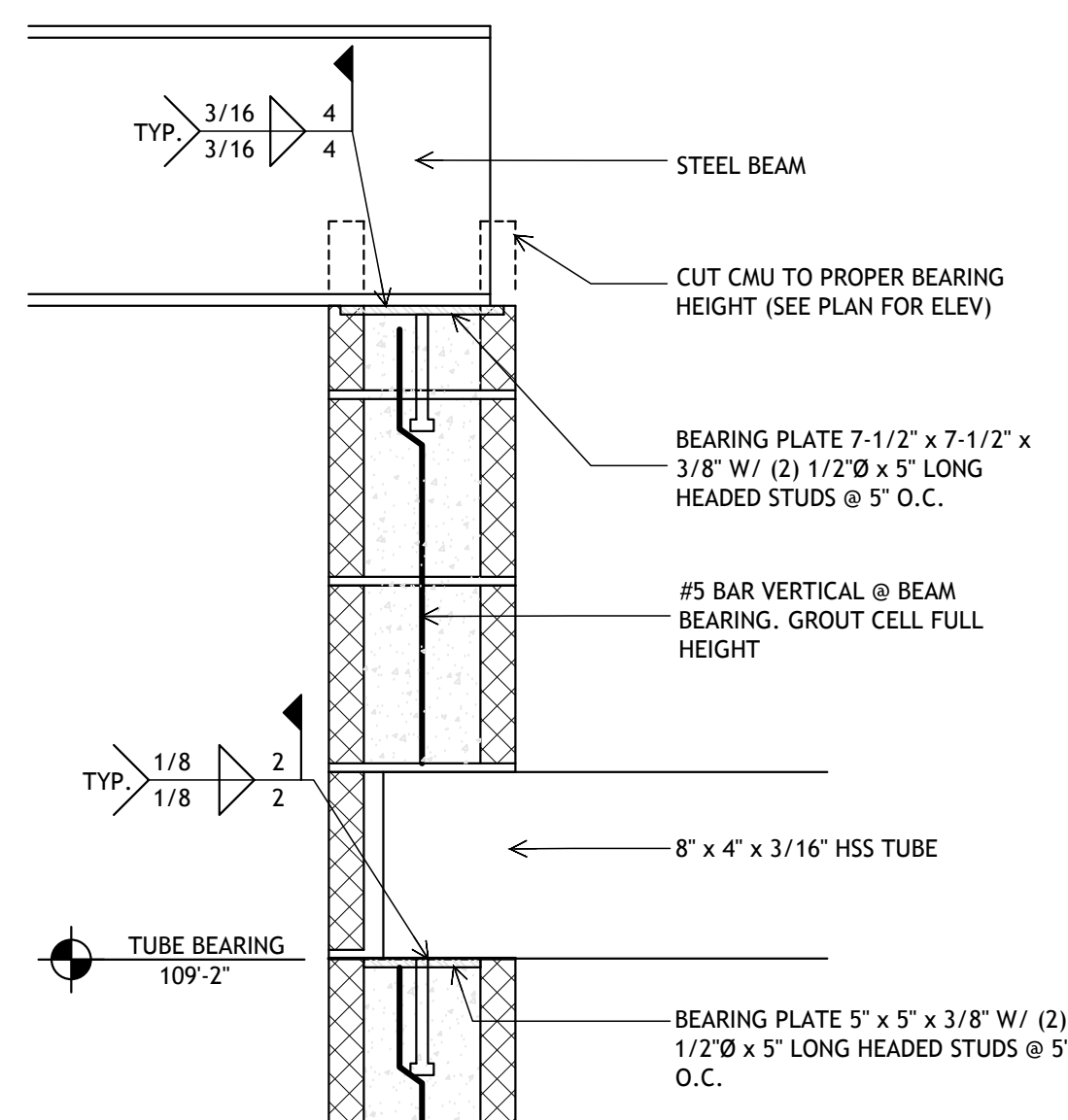
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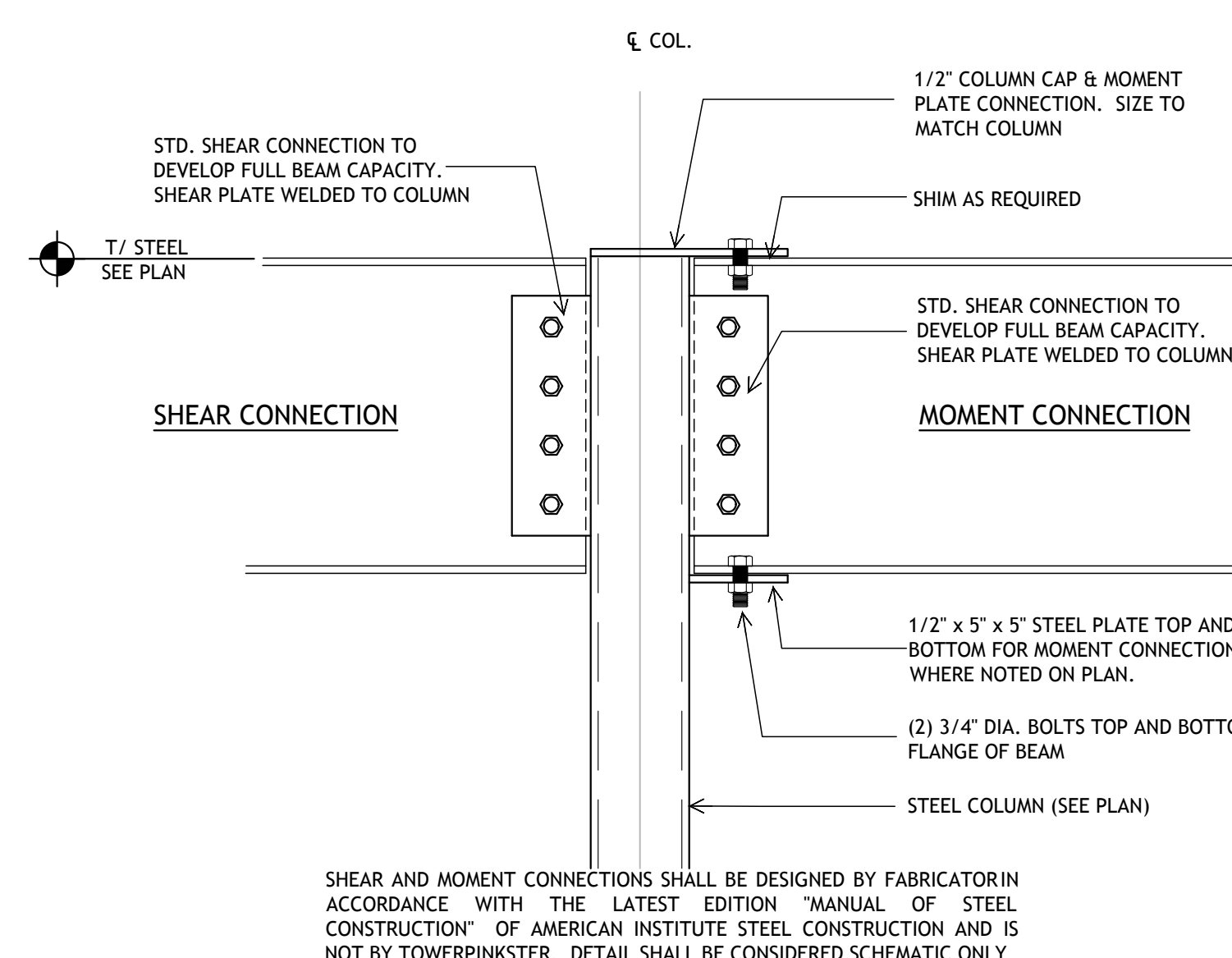
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S-202



10 Metal Deck Fastening Pattern
S-202 SCALE: 1-1/2" = 1'-0"



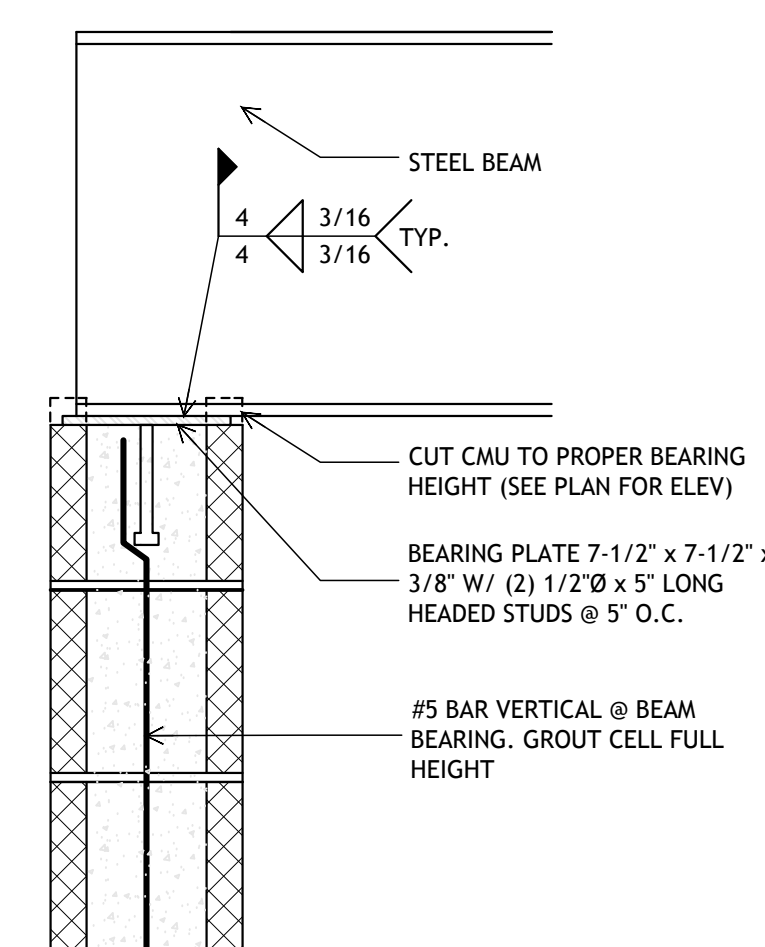
9 Section
S-202 SCALE: 1-1/2" = 1'-0"



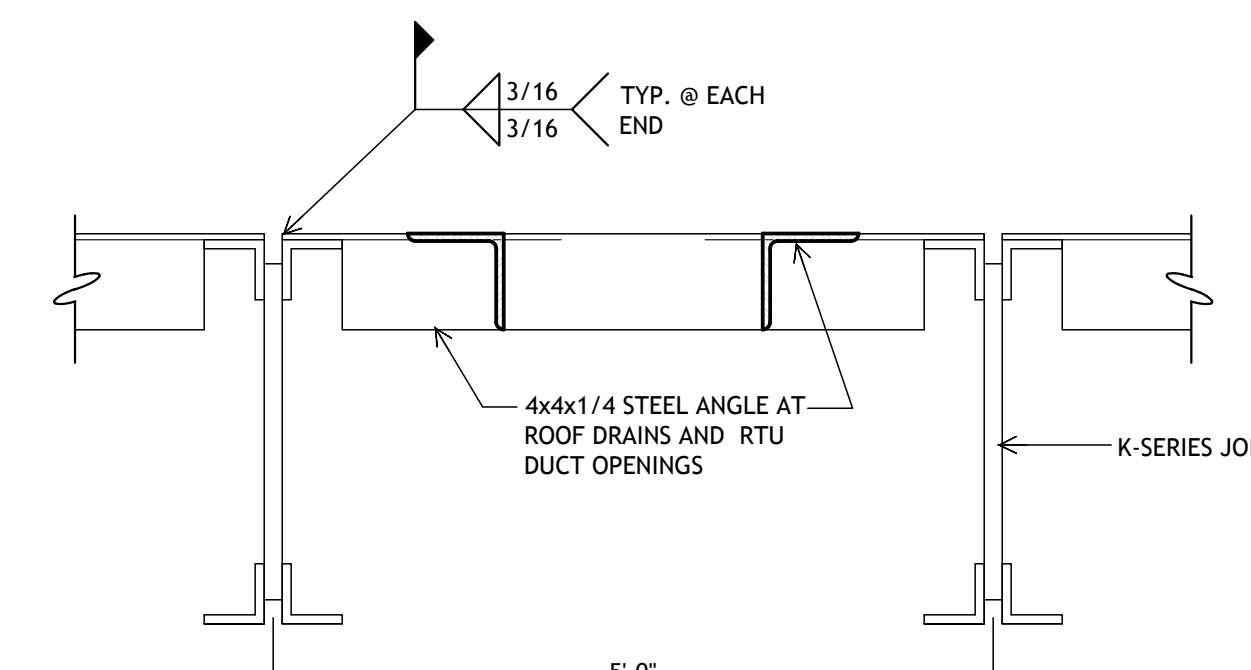
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S-202

Typ. Beam/Column Connection

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



7
S-202



6 Roof Opening Detail
S-202 N.T.S.

Notice

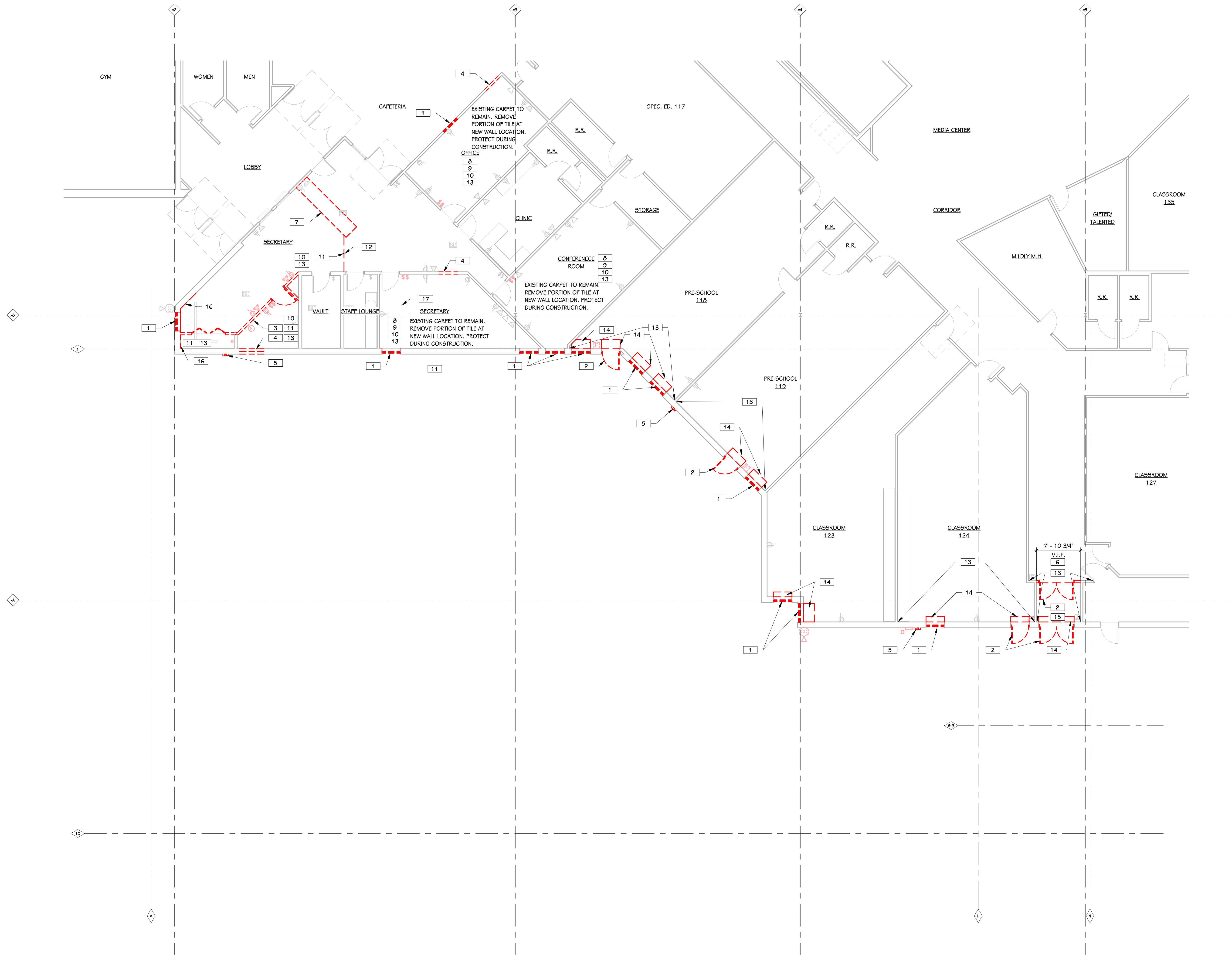
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OVERALL FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

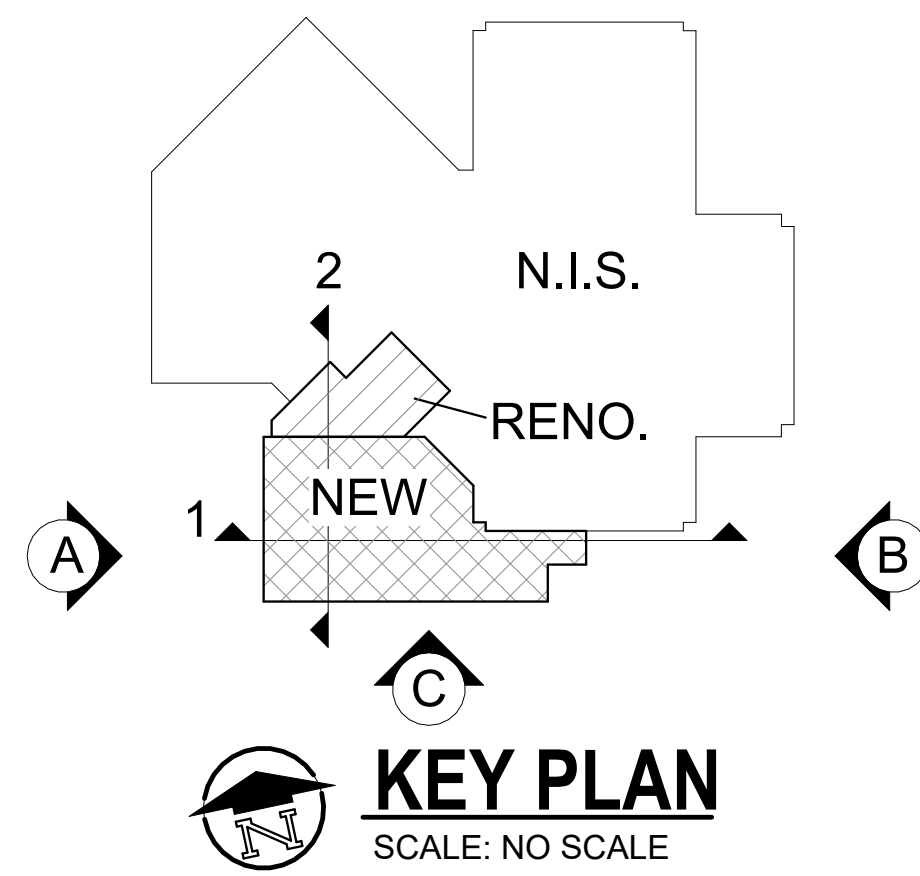


KEYED NOTES - ARCHITECTURAL - DEMOLITION

- 1 REMOVE AND DISCARD WINDOW AND FRAME; REMOVED AND DISCARD EXISTING WALL BENEATH SILL DOWN TO EXISTING FOOTING
- 2 REMOVE AND DISCARD DOOR, TRANSOM, AND ASSOCIATED FRAME
- 3 REMOVE AND DISCARD WALL COMPLETE
- 4 PROVIDE ROUGH OPENING FOR NEW DOOR, SEE PROPOSED FLOOR PLAN AND DOOR SCHEDULE
- 5 REMOVE AND DISCARD GUTTER DOWNSPOUT AND BRICK ACCENT
- 6 REMOVE AND DISCARD WALL UP TO 8'-0" A.F.F.
- 7 REMOVE AND DISCARD COUNTERTOP, KNEEWALL, AND ASSOCIATED MILLWORK COMPLETE
- 8 REMOVE AND RETAIN LIGHT FIXTURES
- 9 REMOVE AND DISCARD CEILING TILE AND GRID
- 10 REMOVE VINYL WALLCOVERING AND ANY ADHESIVE RESIDUE FROM WALLS. SAND AND SKIM WALL. PREP FOR NEW FINISHES.
- 11 REMOVE CARPET TILE AND MASTIC. PREP FOR NEW FINISHES
- 12 COMPLETELY REMOVE TILE FLOORING AND MORTAR BED. CAREFULLY REMOVE RUBBER BASE AND ANY ASSOCIATED MASTIC TO PROTECT DRYWALL. PREP FOR NEW FINISHES.
- 13 CAREFULLY REMOVE RUBBER BASE AND ANY ASSOCIATED MASTIC TO PROTECT DRYWALL. PREP FOR NEW FINISHES.
- 14 REMOVE PORTION OF ACOUSTICAL CEILING SYSTEM AT WINDOW LIGHT POCKET. PROTECT ADJACENT AREAS DURING REMOVAL
- 15 REMOVE WALK-OFF CARPET AND MASTIC. PREP FOR NEW FINISHES
- 16 REMOVE GYPSUM FURRING FROM CMU WALL. PREP FOR NEW FINISHES
- 17 EXISTING CARPET TO REMAIN. REMOVE PORTION OF TILE AT NEW WALL LOCATION. PROTECT DURING CONSTRUCTION.

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

MILAN ELEMENTARY SCHOOL



SHEET TITLE
DEMOLITION PLAN

2026 Classroom Addition
Milan Elementary

418 E. Carr Street

Milan Community School Corporation

Milan, Indiana 47031

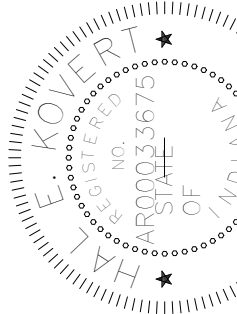
DATE
APRIL 25, 2025

SHEET NUMBER
AD101

25128.001

ISSUED FOR

DATE



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OVERALL FIRST FLOOR PLAN

1/16" = 1'-0"

SHEET TITLE
OVERALL FLOOR PLAN

SHEET NUMBER
A100
25128.001

DATE
APRIL 25, 2025

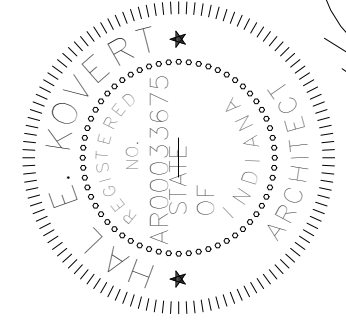
ISSUED FOR

DATE

2026 Classroom Addition
Milan Elementary

418 E. Carr Street
Milan, Indiana 47031

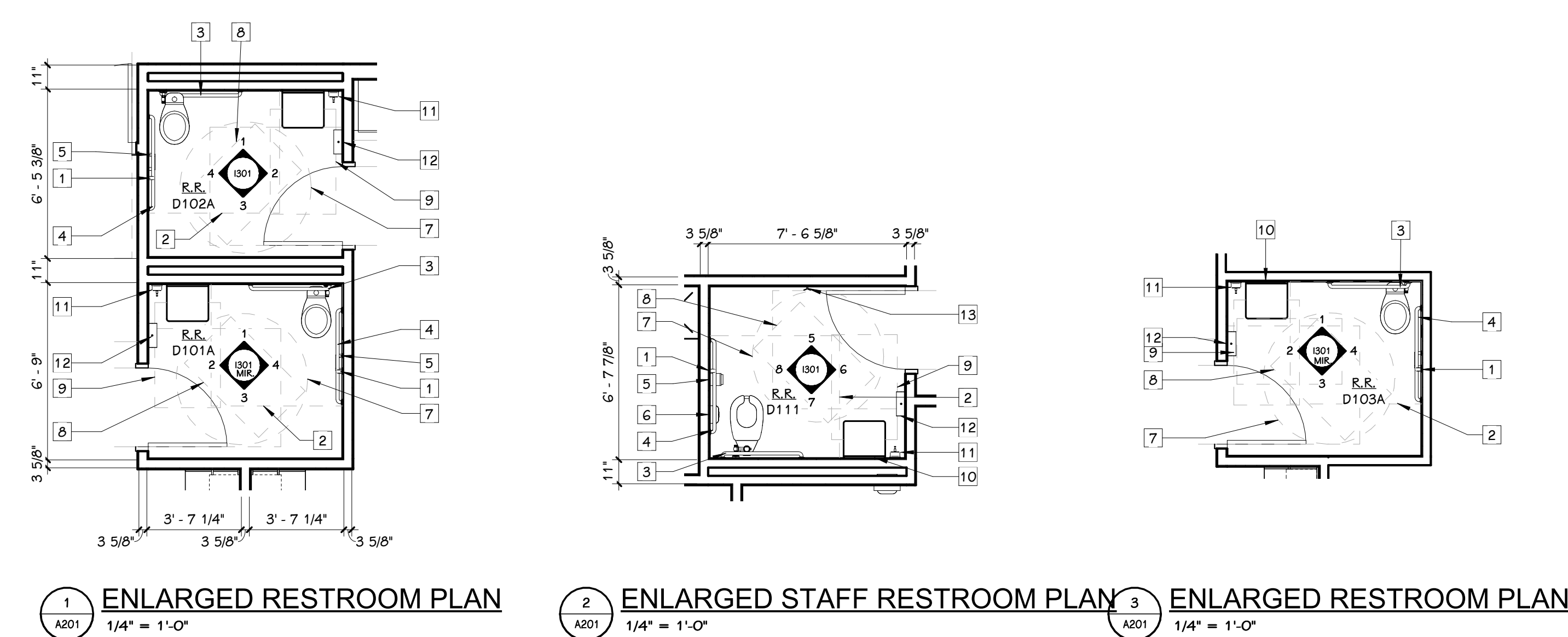
Milan Community School Corporation



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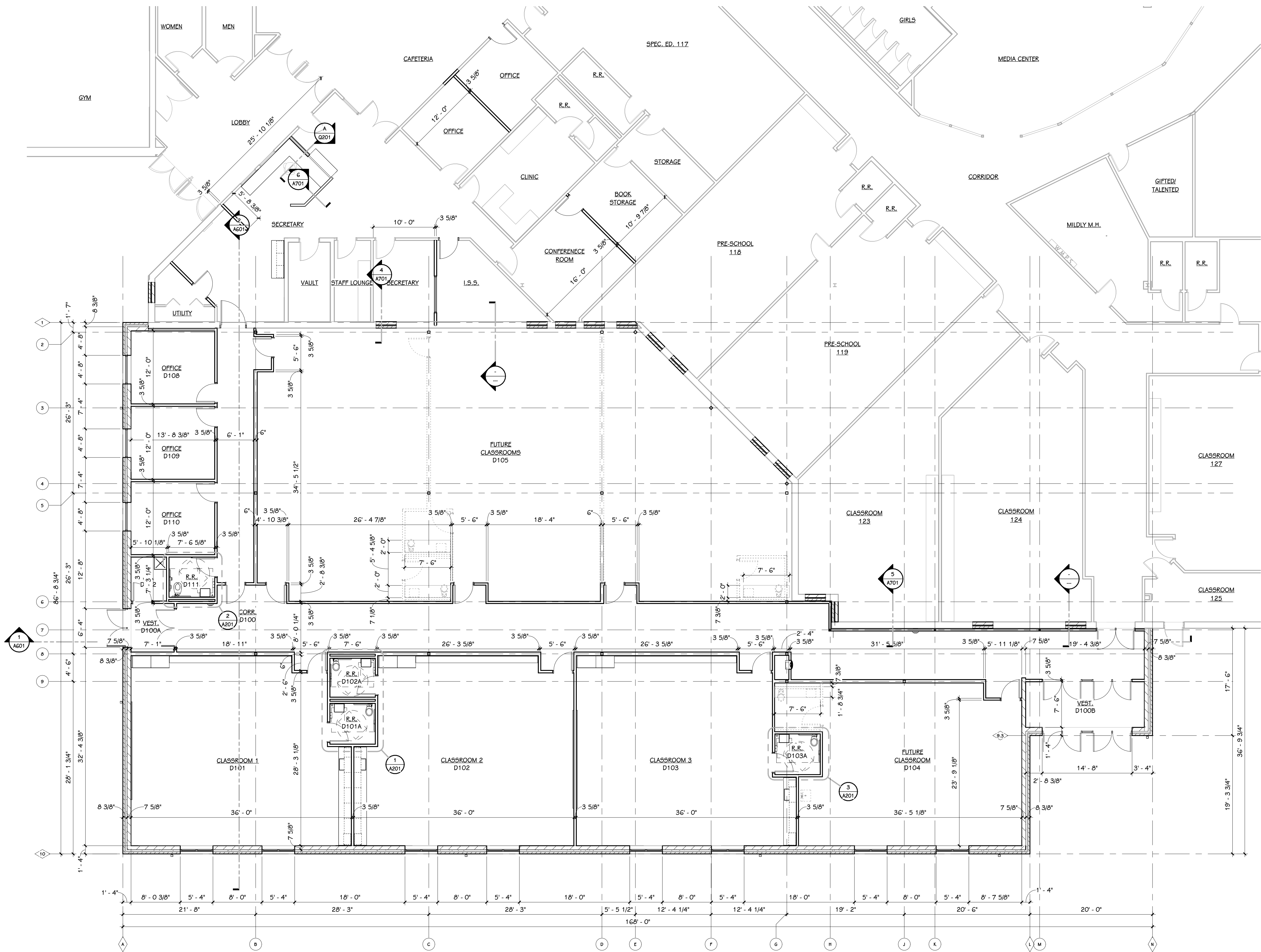
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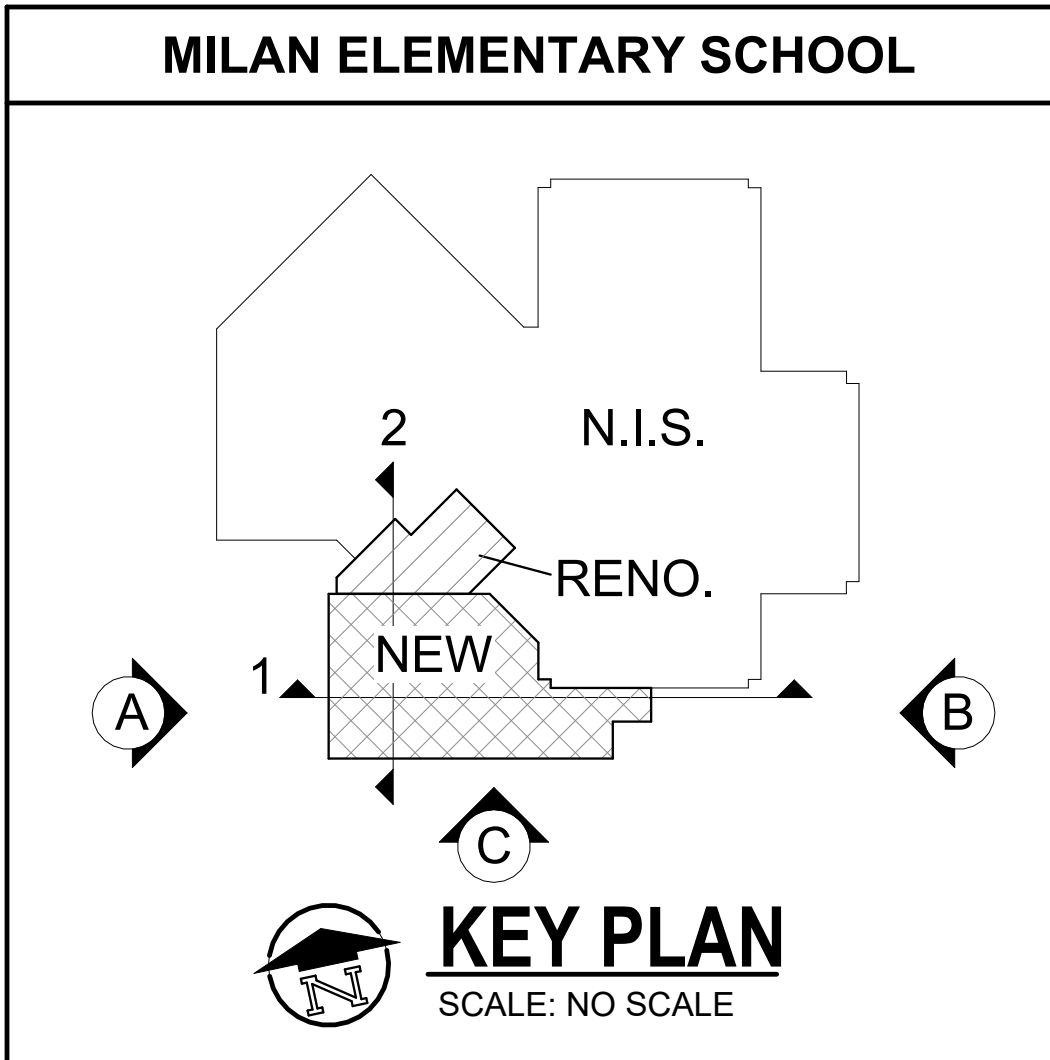


KEYED NOTES - TOILET ACCESSORY	
1	18" VERTICAL GRAB BAR, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA
2	CLEAR FLOOR SPACE - 56" x 60" AT WATER CLOSET
3	36" GRAB BAR, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA
4	42" GRAB BAR, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA
5	TOILET PAPER DISPENSER, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA, COORDINATE WITH GRAB BARS AND SANITARY NAPKIN DISPOSAL IF APPLICABLE. OF-CI
6	SANITARY NAPKIN DISPOSAL SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA, COORDINATE WITH GRAB BARS AND TOILET PAPER DISPENSER IF APPLICABLE. CF-CI
7	CLEAR FLOOR SPACE - 60" DIAMETER WHEELCHAIR TURNING SPACE
8	CLEAR FLOOR SPACE - 30" x 48" SPACE ALLOWED IN SINGLE OCCUPANCY ROOM BEYOND DOOR SWING
9	CLEAR FLOOR SPACE - 30" x 48" AT LAVATORY, SINK, OR URINAL
10	MIRROR, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA, MOUNT CENTERED ON LAVATORY, CF-CI
11	SOAP DISPENSER, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA, OF-CI
12	PAPER TOWEL DISPENSER, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA, OF-CI
13	COAT HOOK, SURFACE-MOUNTED, MOUNT PER ICC/ANSI AND ADA

NOTES - TOILET ACCESSORY	
1	OF = OWNER FURNISHED, OI = OWNER INSTALLED, CF = CONTRACTOR FURNISHED, CI = CONTRACTOR INSTALLED.
2	DIMENSIONS INDICATED ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS.
3	GENERIC PLUMBING FIXTURES ARE SHOWN. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR FIXTURE TYPES, MANUFACTURERS AND MOUNTING HEIGHTS.
5	REFER TO MOUNTING HEIGHT DETAILS ON SHEET G 002
6	PROVIDE WOOD BLOCKING FOR ALL WALL-HUNG ACCESSORIES



A201 - FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



SHEET TITLE
DIMENSION PLAN & ENLARGED PLANS

SHEET NUMBER
A201
25128.001

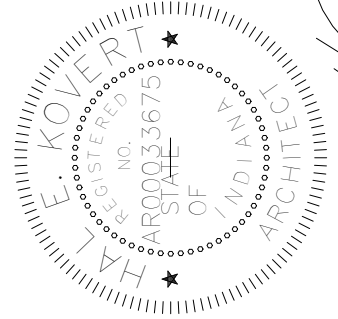
DATE
APRIL 25, 2025

ISSUED FOR
DATE

2026 Classroom Addition
Milan Elementary

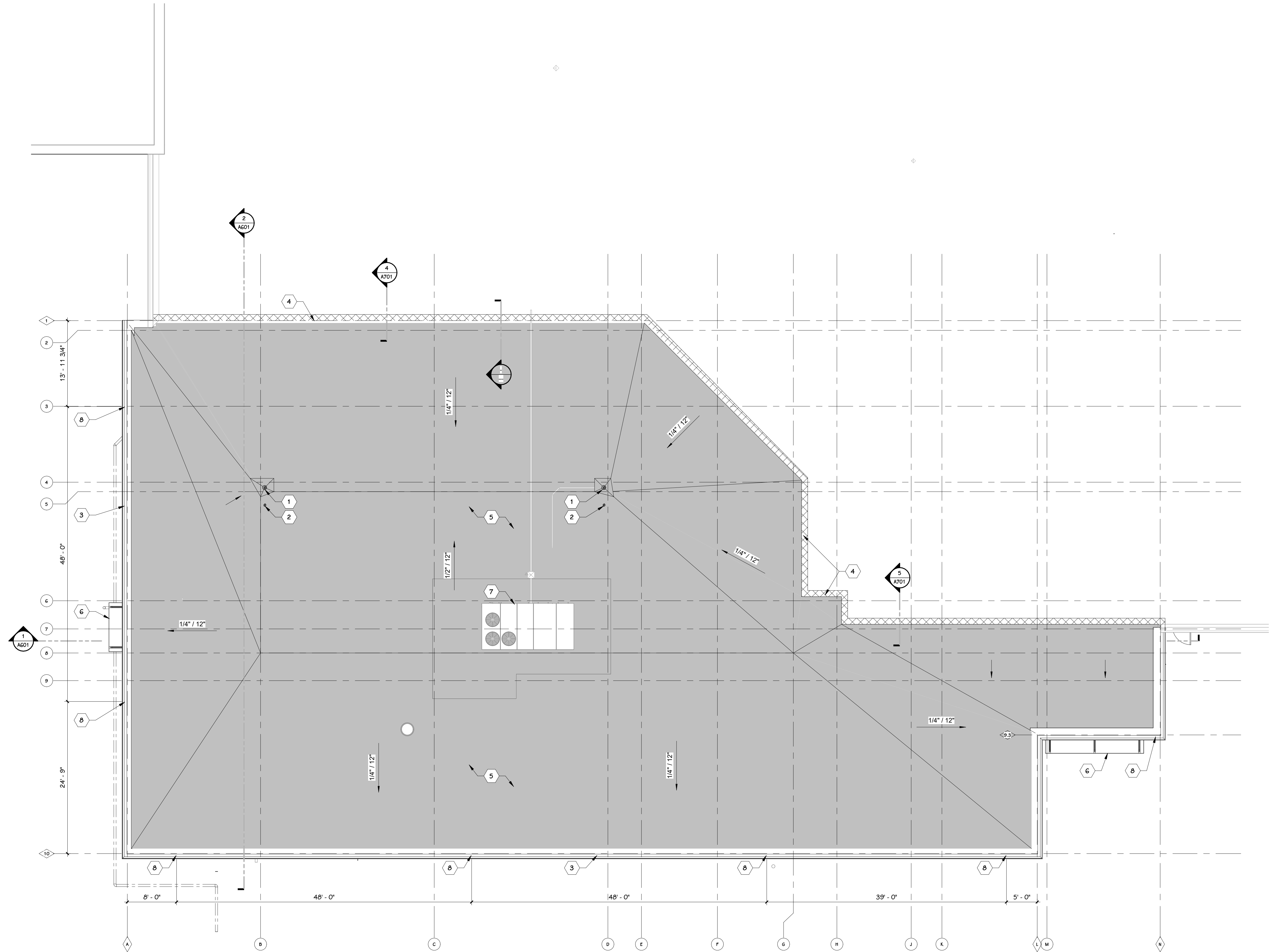
418 E. Carr Street
Milan, Indiana 47031

Milan Community School Corporation

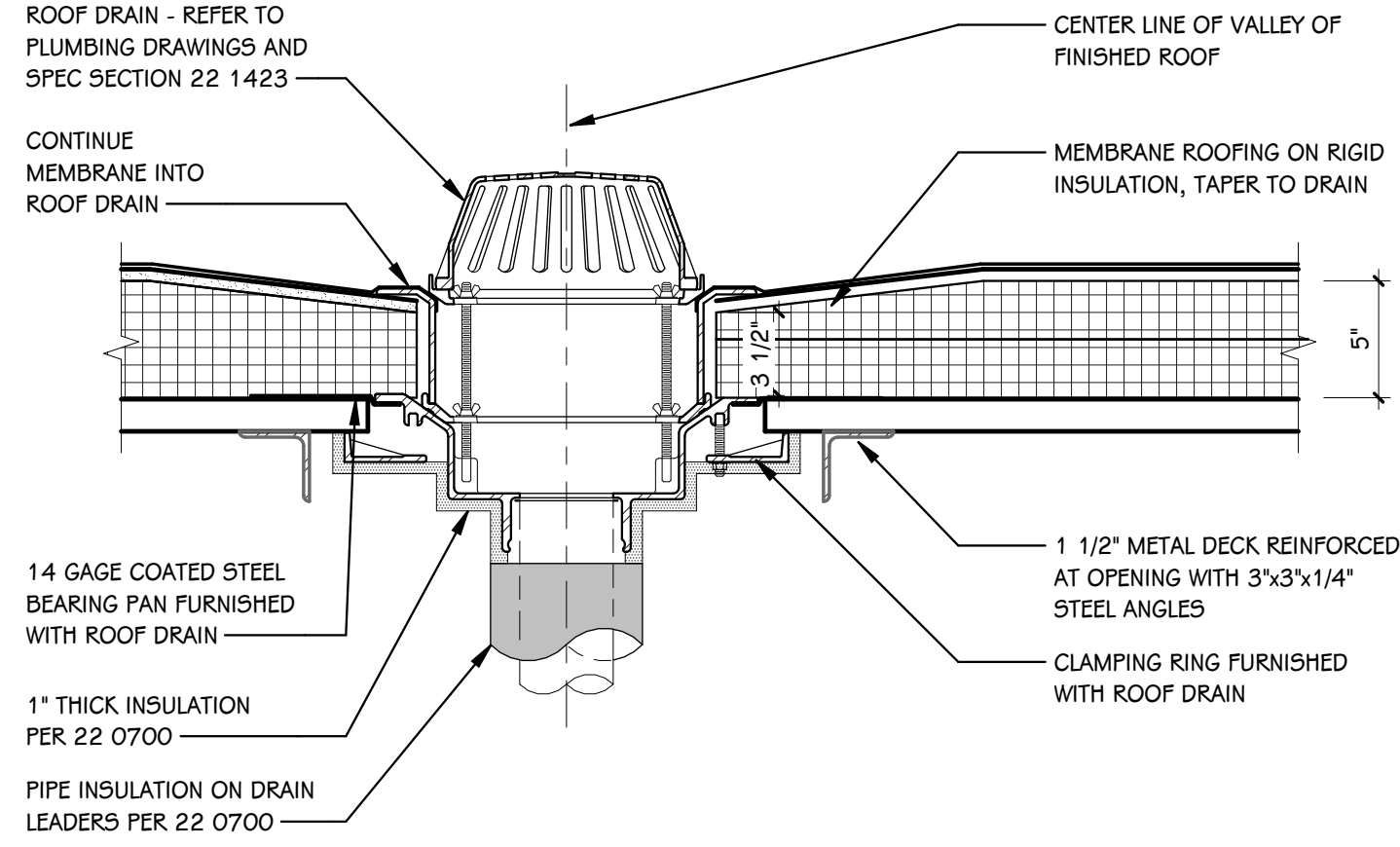


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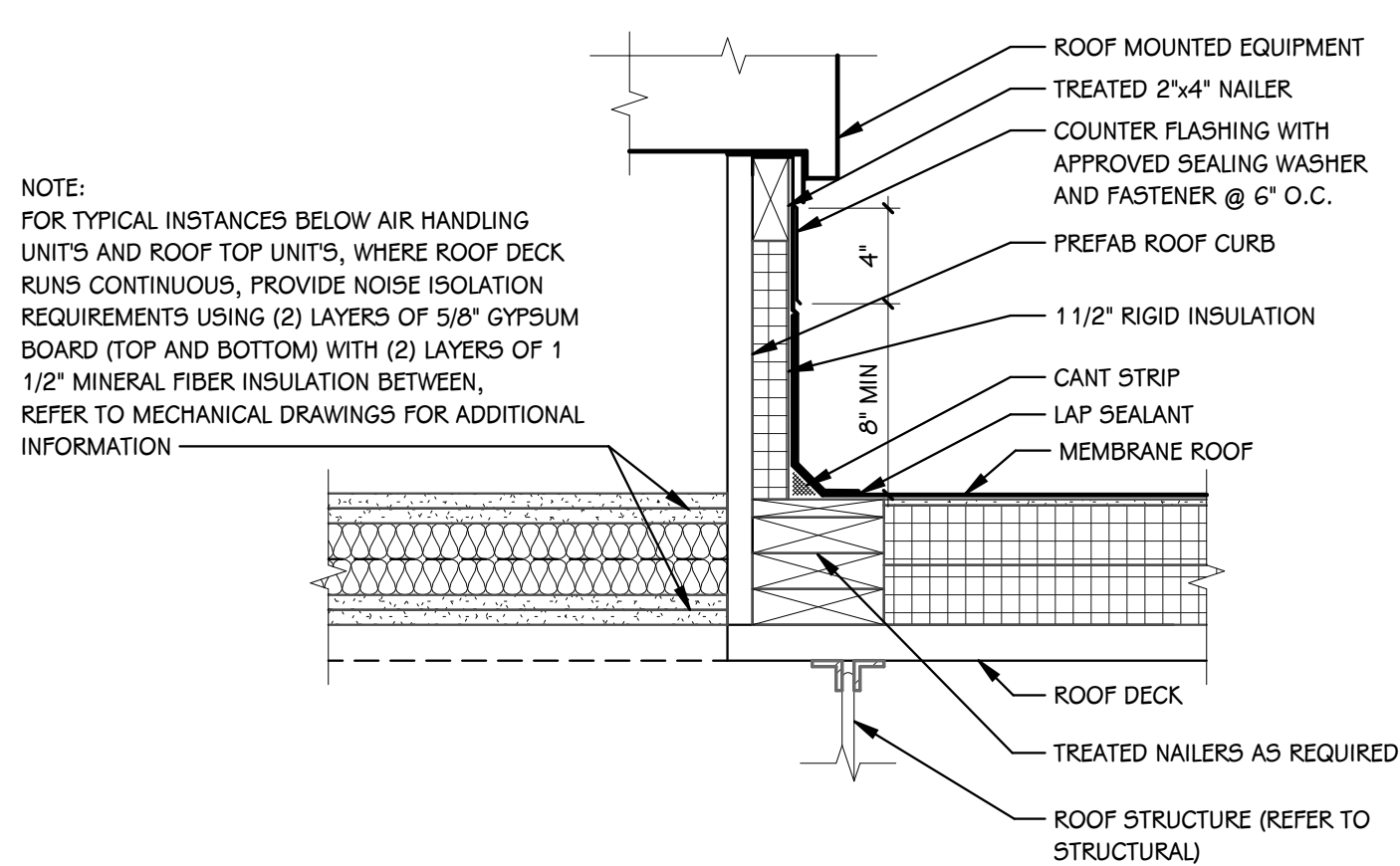
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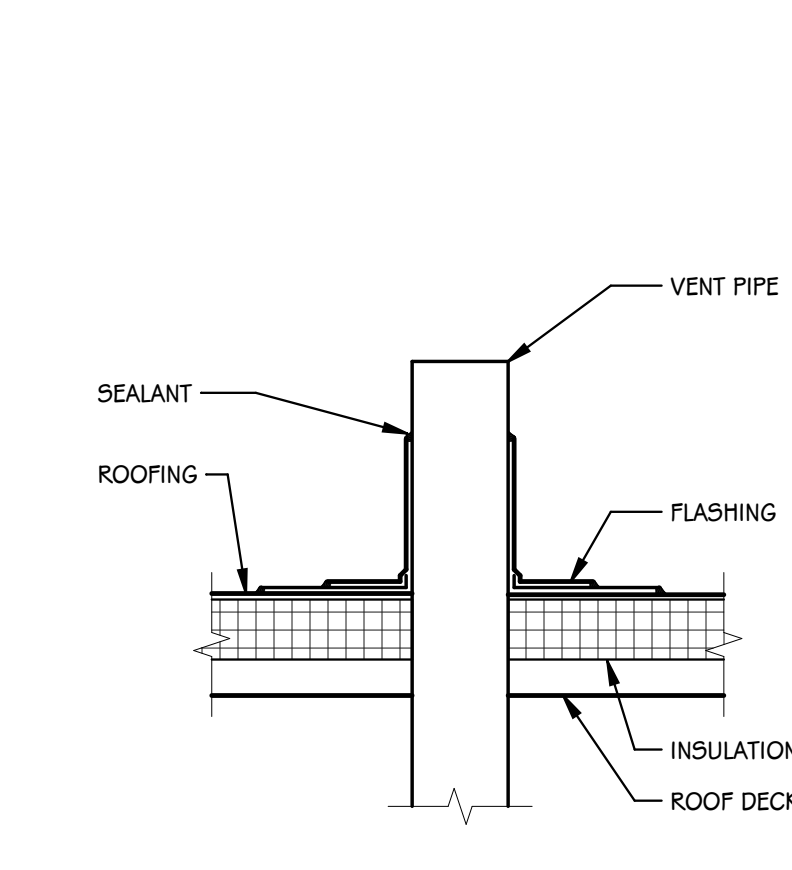
A301 - ROOF PLAN
1/8" = 1'-0"



1 ROOF DRAIN DETAIL
1/2" = 1'-0"



2 TYPICAL ROOF CURB
1/2" = 1'-0"



3 TYPICAL ROOF PENETRATION
1/2" = 1'-0"

KEYED NOTES - ARCHITECTURAL - ROOF	
1	ROOF DRAIN; SEE DETAIL 1/A301
2	ROOF OVERFLOW DRAIN; SEE DETAIL 1/A301
3	ALUMINUM GUTTER SYSTEM TO MATCH EXISTING
4	LAP NEW ROOF MEMBRANE OVER EXISTING 12" MIN
5	NEW ROOF MEMBRANE
6	PRE-FINISHED METAL CANOPY; SEE DETAIL 1/A4701
7	NEW RTU ON CURB; SEE MECHANICAL DRAWINGS; SEE DETAIL 2/A301
8	4" x 4" PLAIN DOWNSPOUT TO MATCH EXISTING DOWNSPOUTS

SHEET TITLE
ROOF PLAN & DETAILS

SHEET NUMBER
A301
25128.001

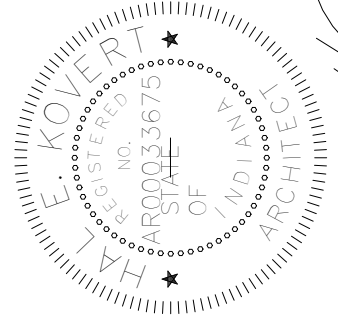
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DATE

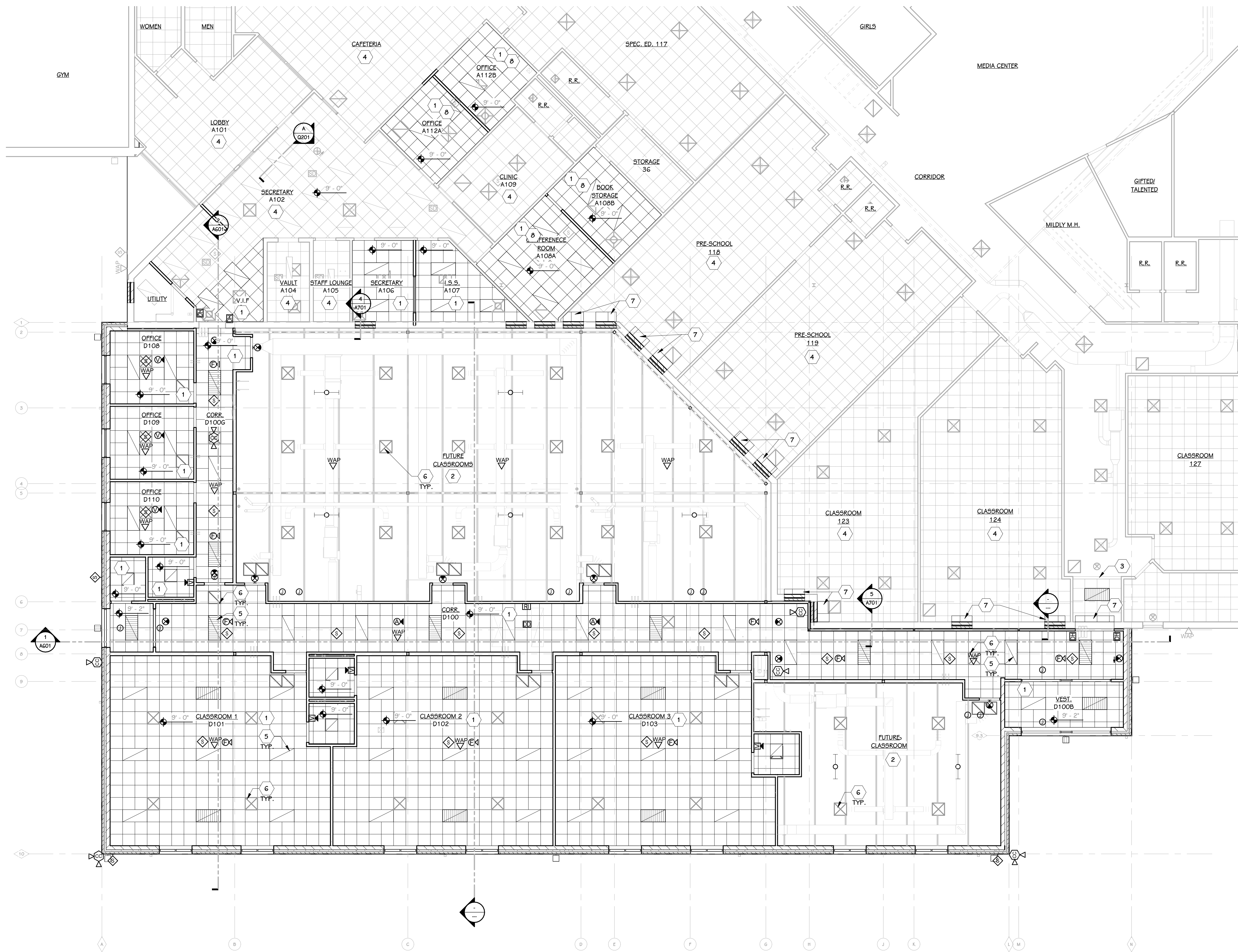
2026 Classroom Addition
Milan Elementary

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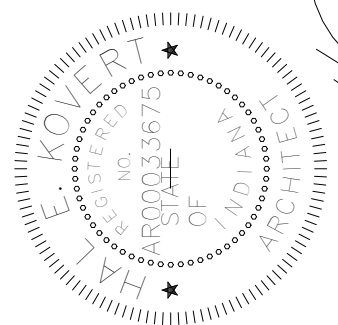


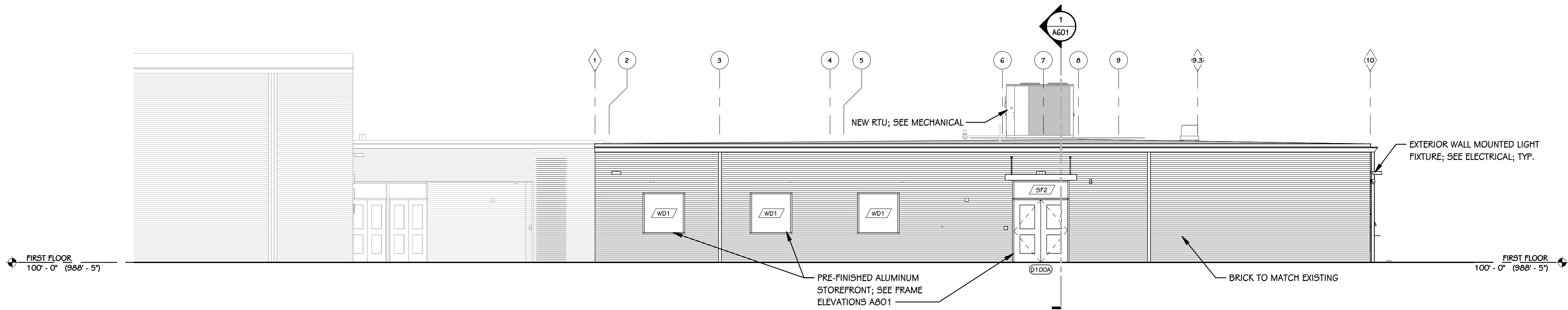
OVERALL FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

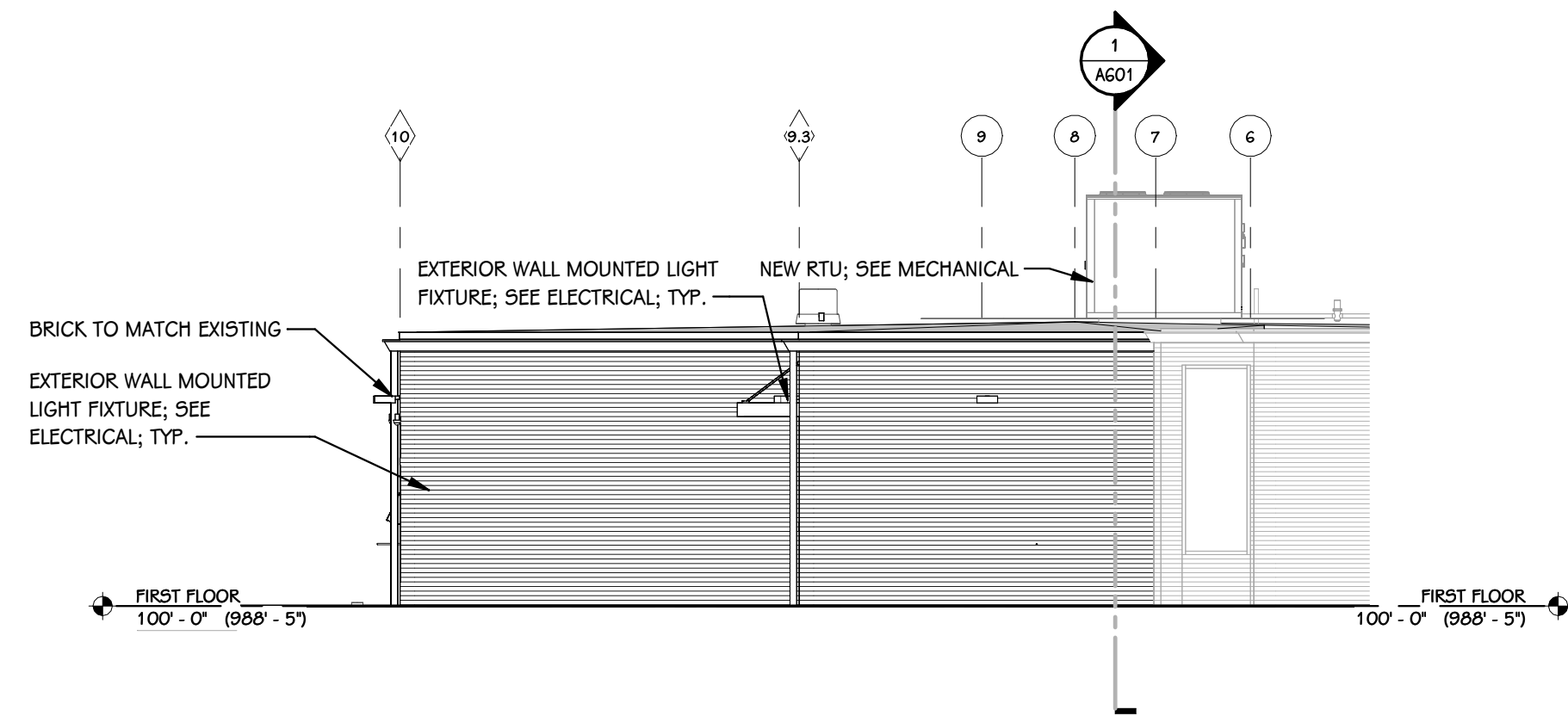
KEYED NOTES - ARCHITECTURAL - REFLECTED CEILING

- 1 NEW CEILING GRID AND TILE; SEE INTERIOR FINISH PLANS
- 2 EXPOSED STRUCTURE ABOVE
- 3 FINISH UNDERSIDE OF GYP BD SOFFIT; PRIME 4 PAINT TO MATCH EXISTING
- 4 EXISTING CEILING TO REMAIN
- 5 NEW LIGHT FIXTURE; SEE ELECTRICAL LIGHTING PLAN; TYP.
- 6 MECHANICAL SUPPLY/RETURN DIFFUSER; SEE MECHANICAL DRAWINGS; TYP
- 7 PATCH ACOUSTICAL CEILING SYSTEM AS REQUIRED WHERE RAISED PORTION IS DEMOLISHED. ALIGN WITH EXISTING CEILING HEIGHT.
- 8 RE-INSTALL EXISTING LIGHT FIXTURES IN NEW LOCATIONS

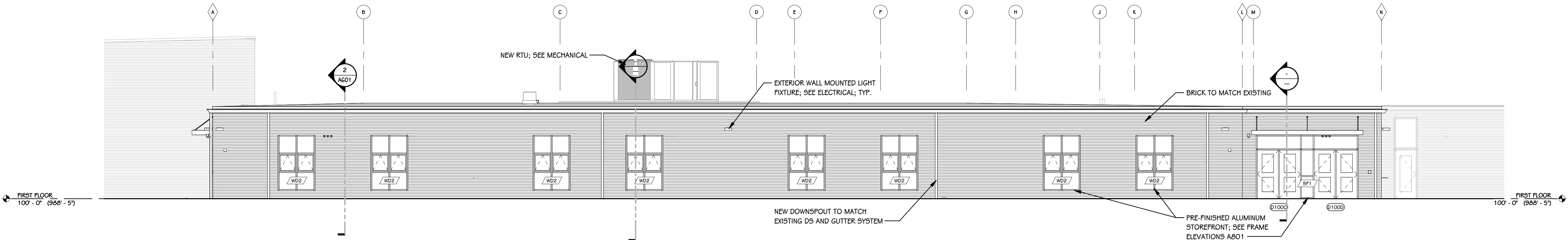




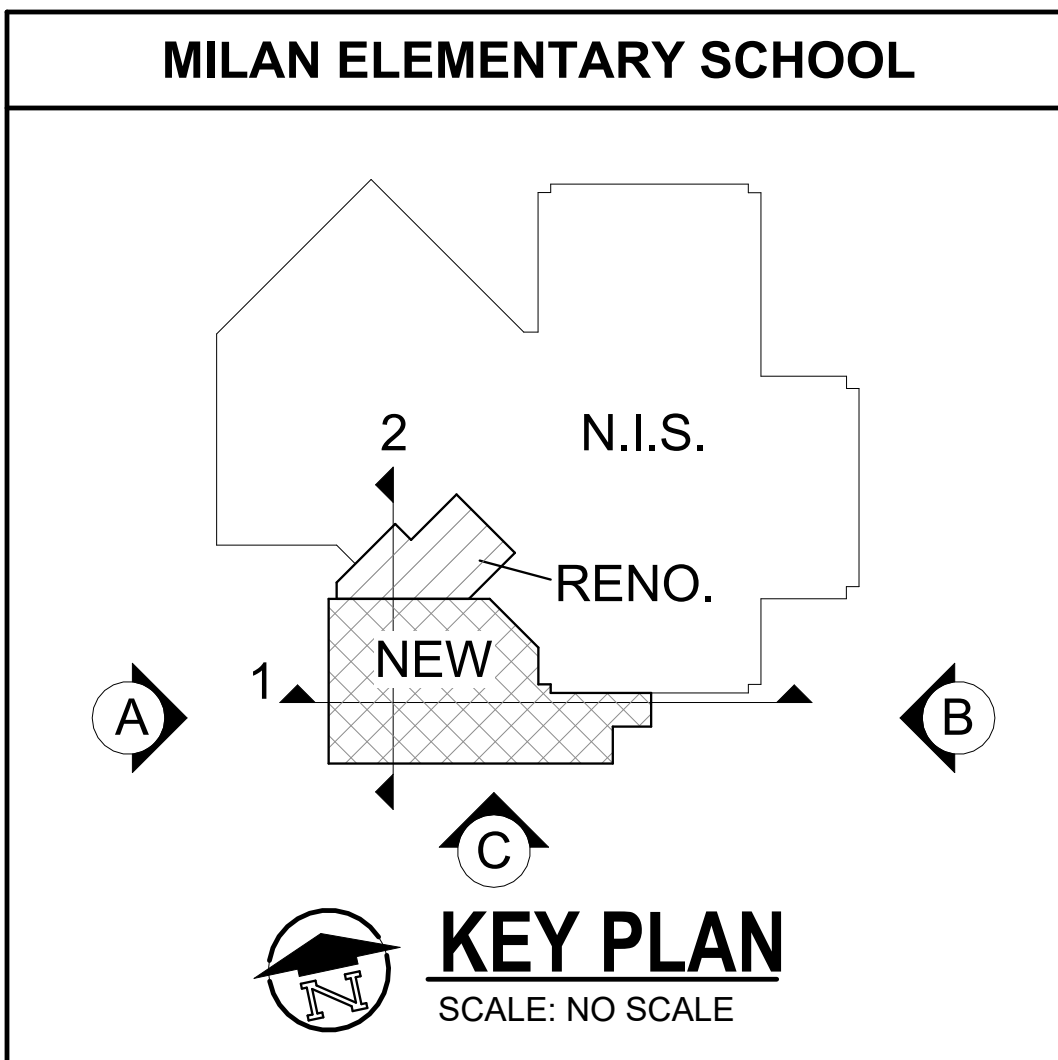
A WEST ELEVATION
1/8" = 1'-0"



B EAST ELEVATION
1/8" = 1'-0"



C SOUTH ELEVATION
1/8" = 1'-0"



SHEET TITLE
EXTERIOR ELEVATIONS

ISSUED FOR

DATE

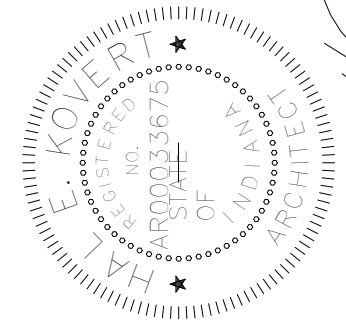
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Milan Community School Corporation

DATE
APRIL 25, 2025

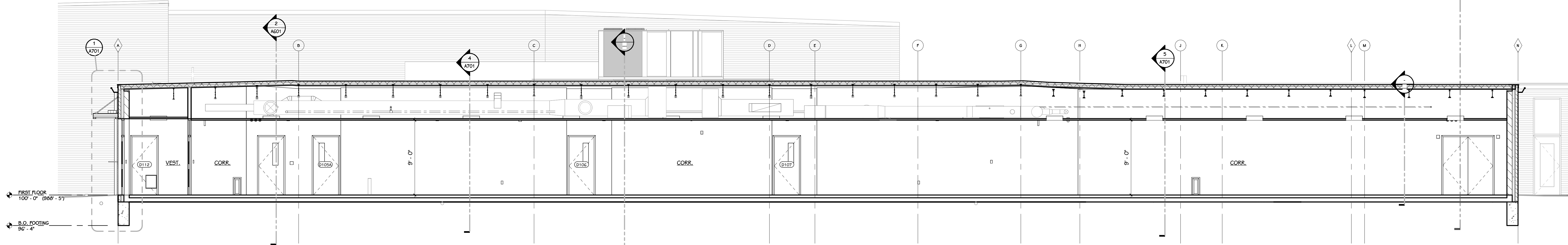
SHEET NUMBER
A501
25128.001



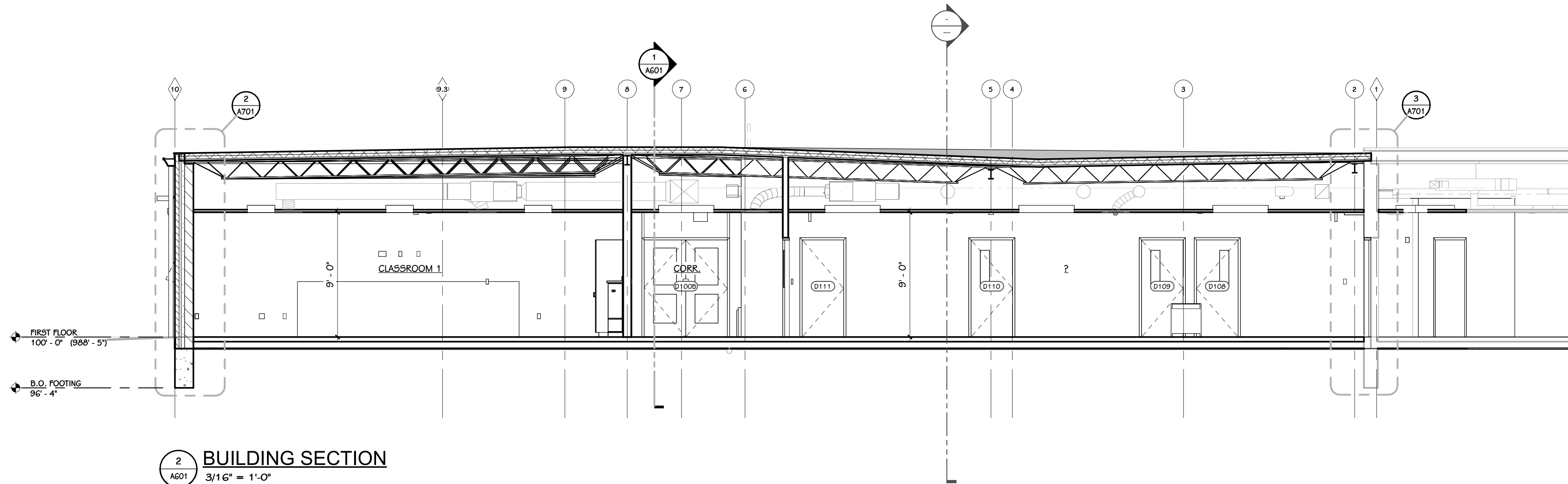
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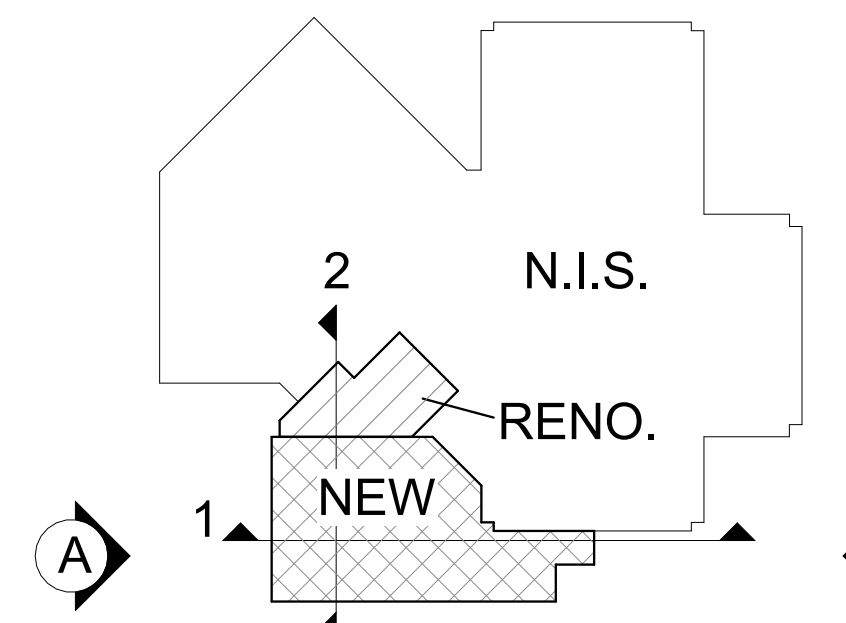


1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"

MILAN ELEMENTARY SCHOOL



SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
A601
25128.001

DATE
APRIL 25, 2025

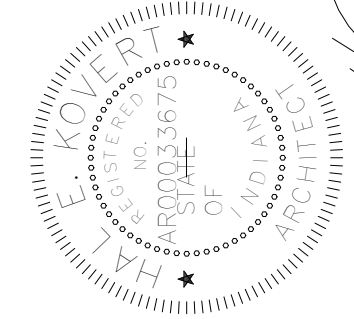
ISSUED FOR

DATE

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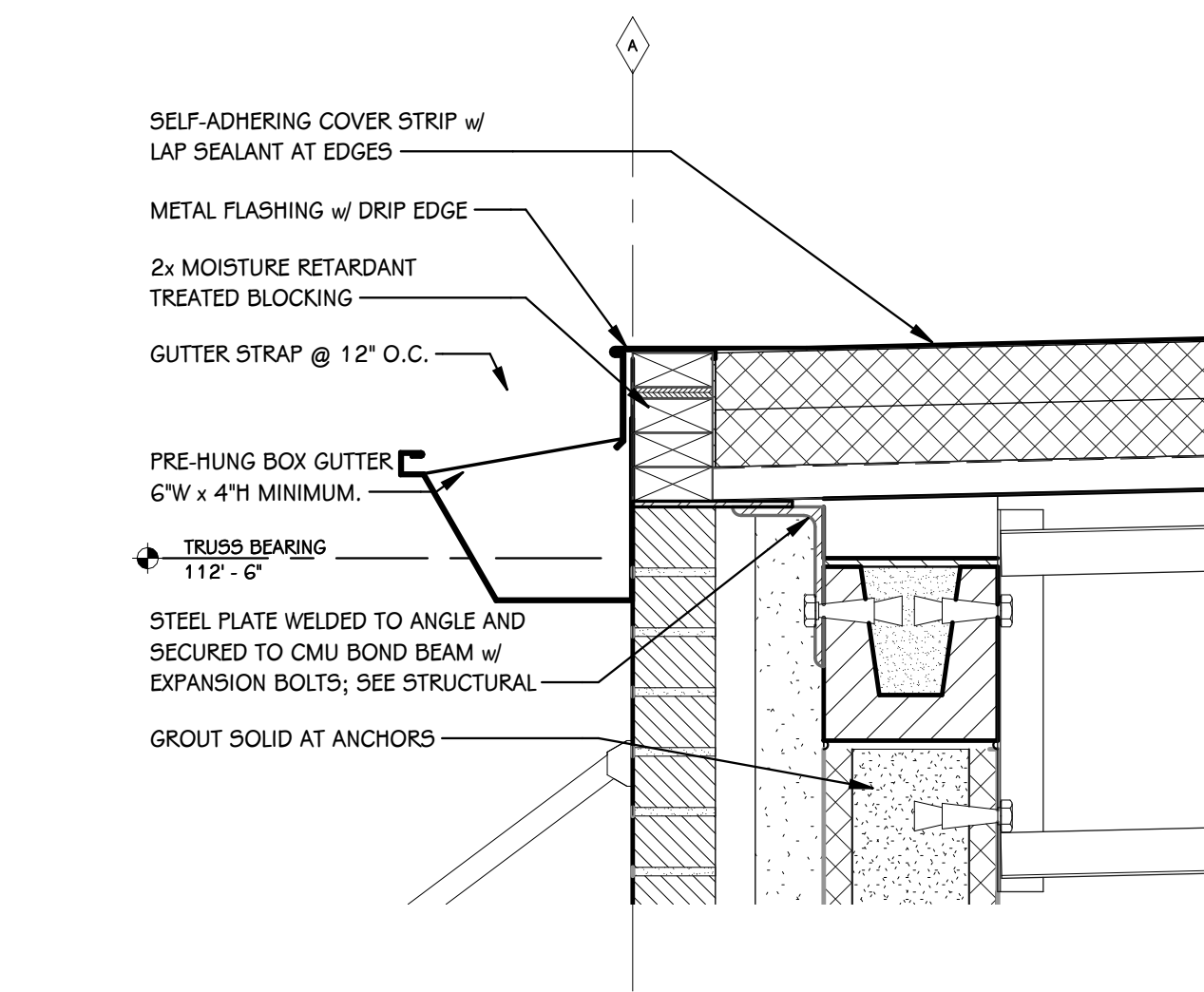
418 E. Carr Street
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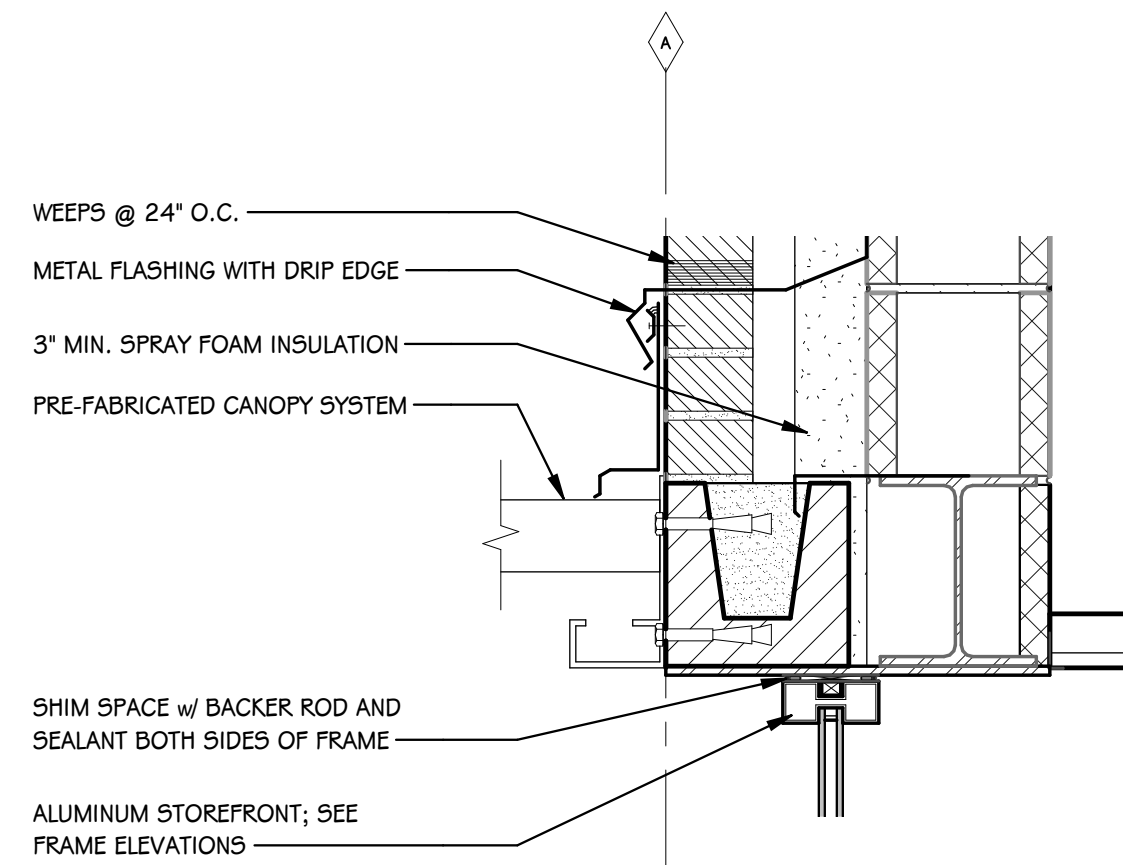


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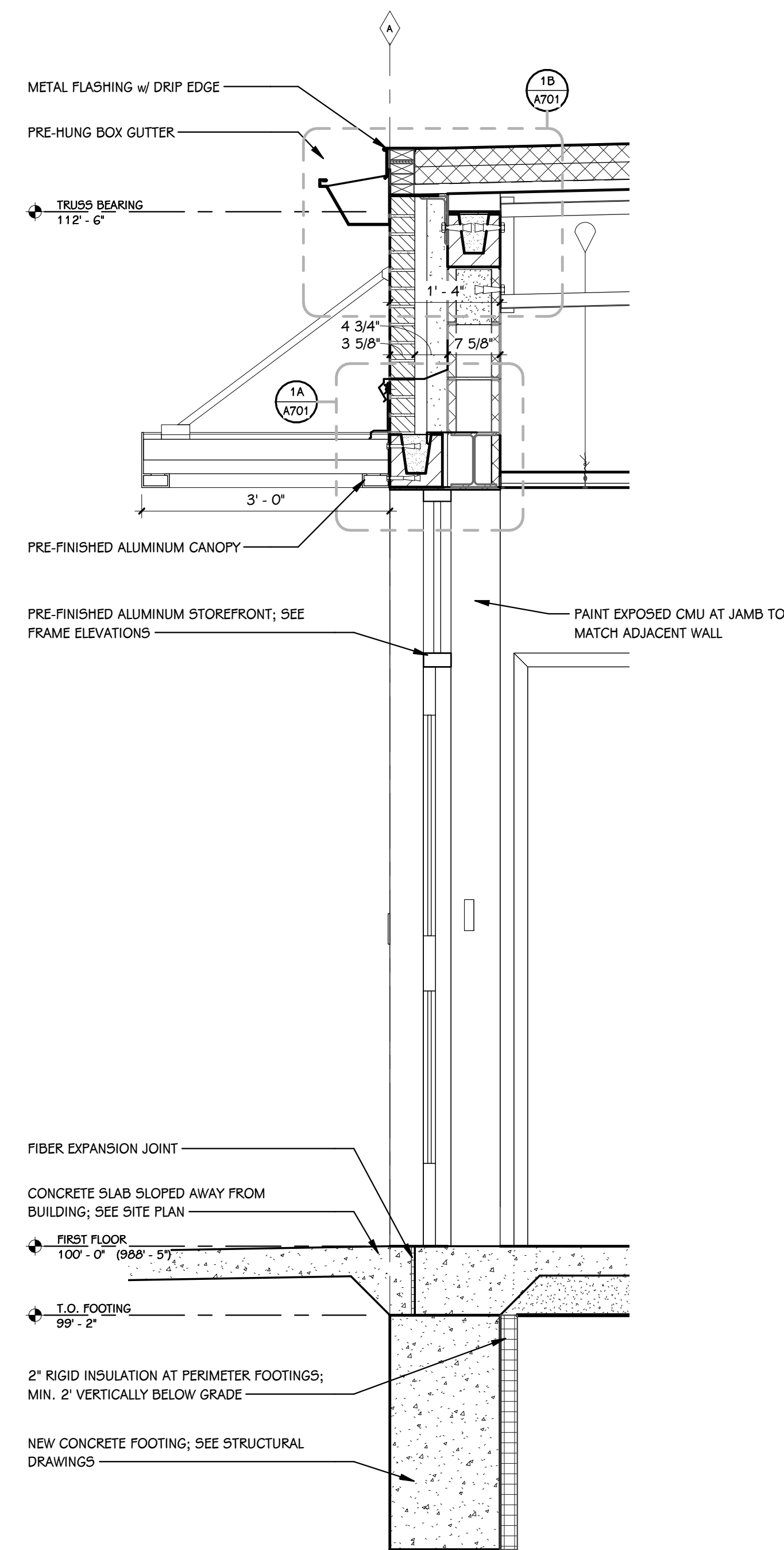
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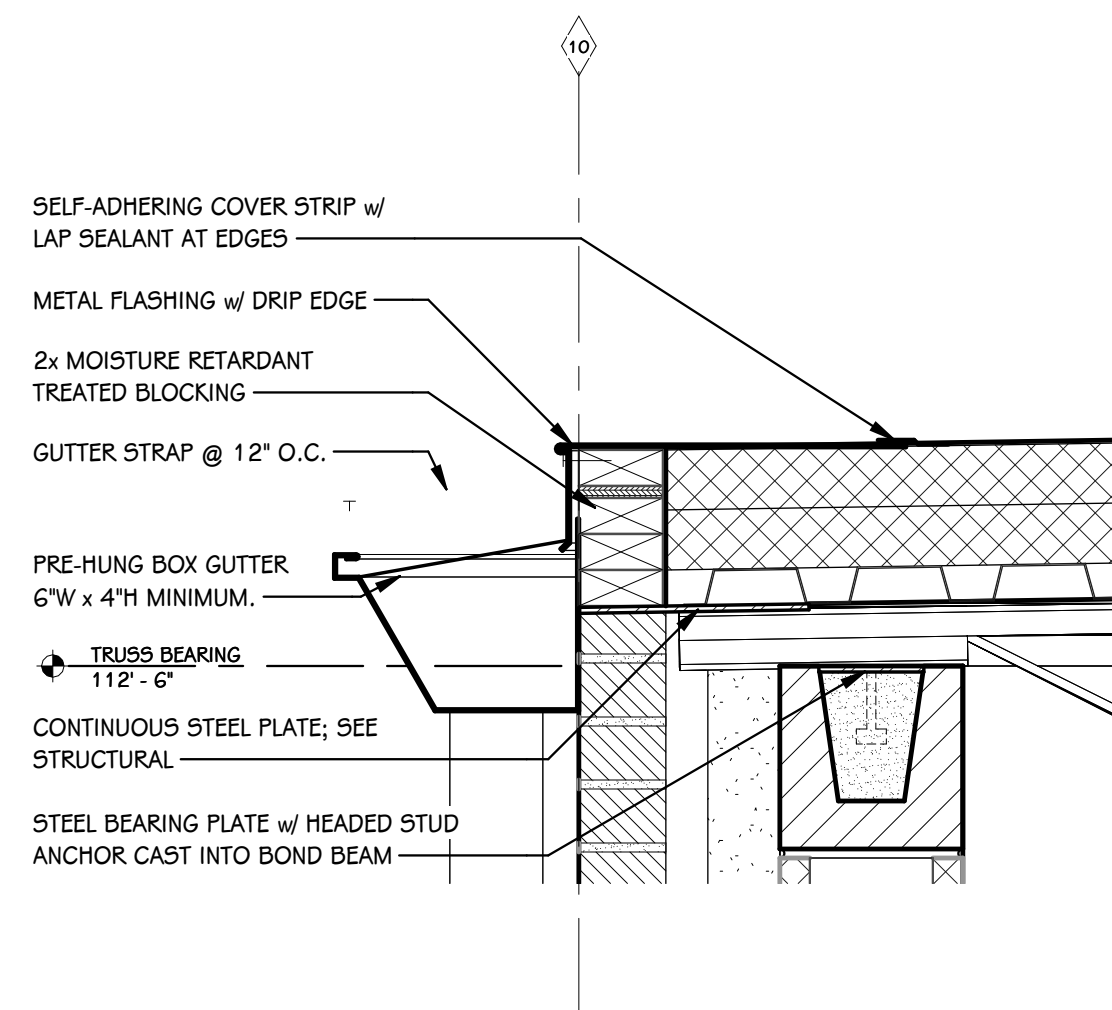
1B SECTION DETAIL
1 1/2" = 1'-0"



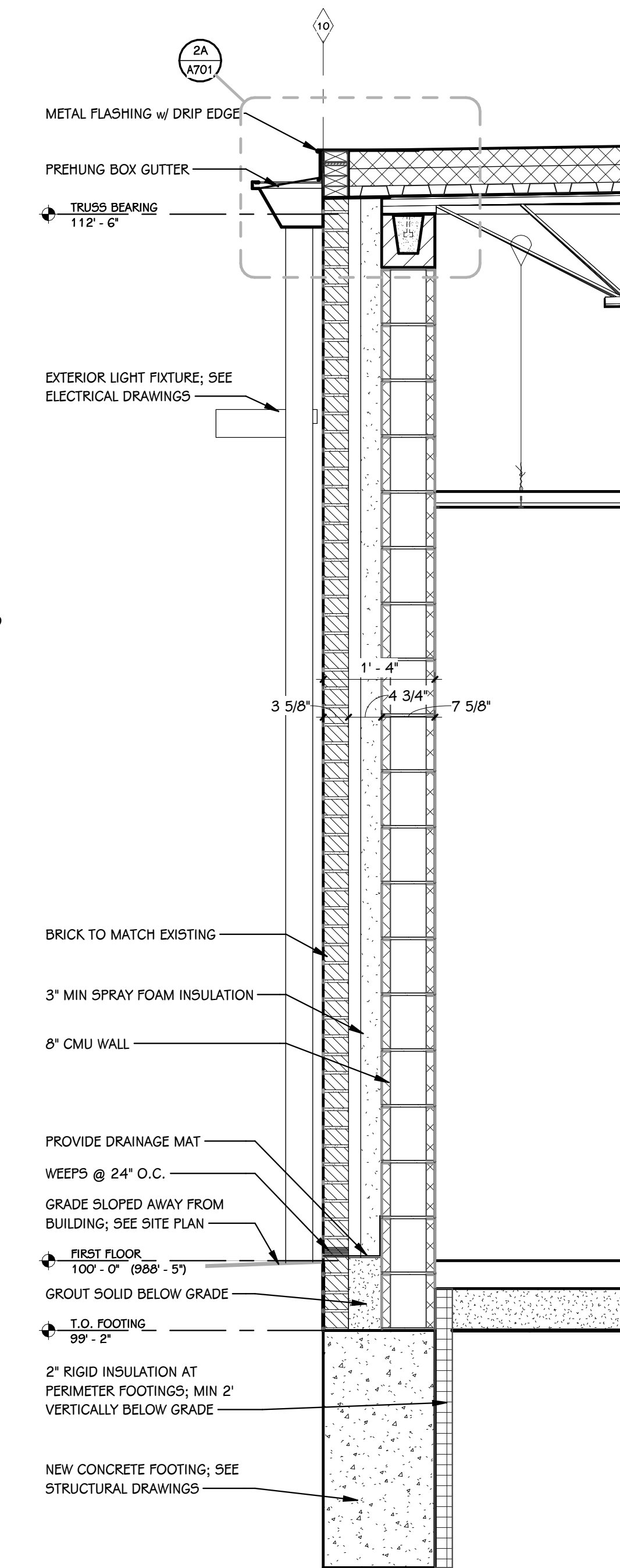
1A SECTION DETAIL
1 1/2" = 1'-0"



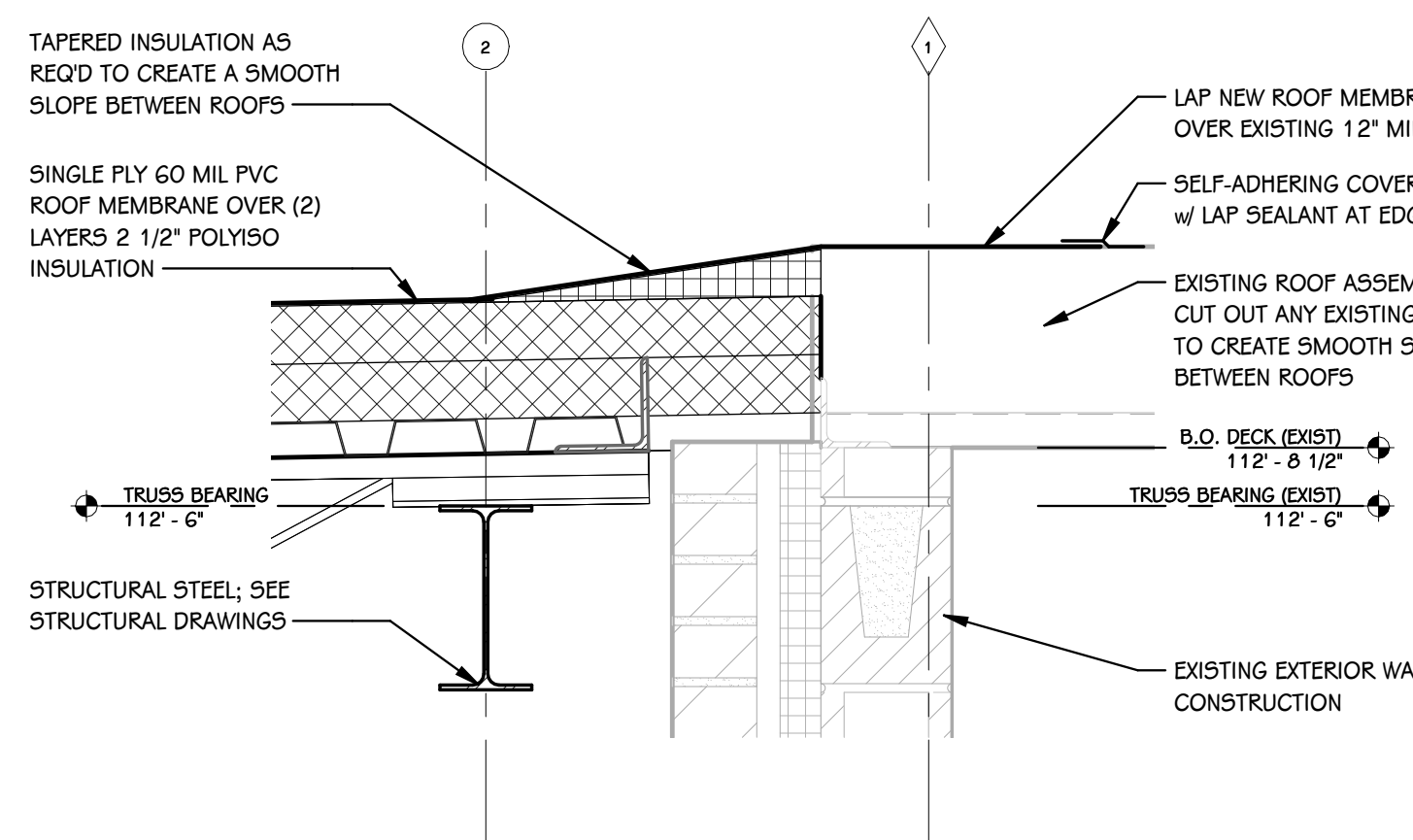
1 WALL SECTION
3/4" = 1'-0"



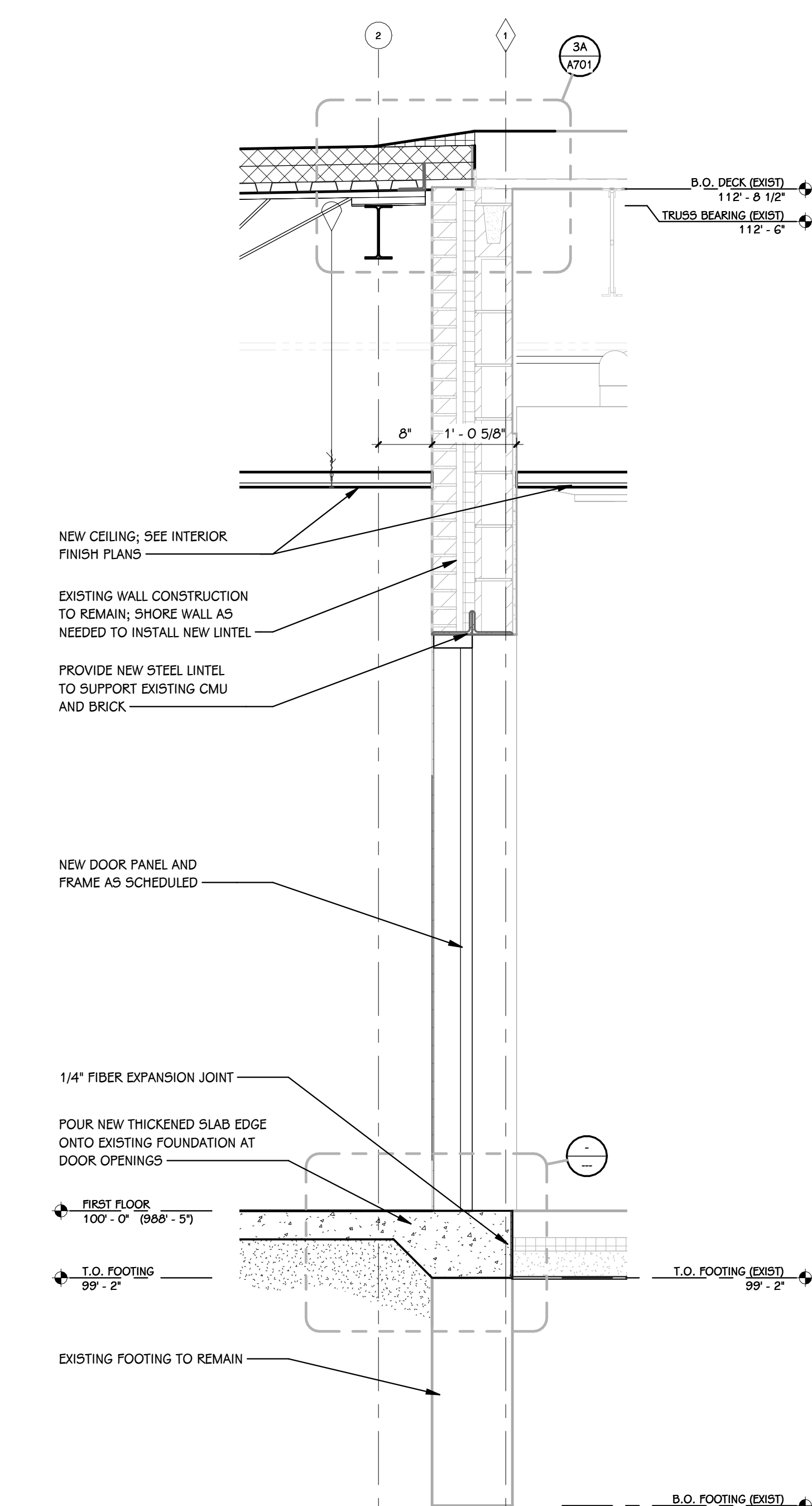
2A SECTION DETAIL
1 1/2" = 1'-0"



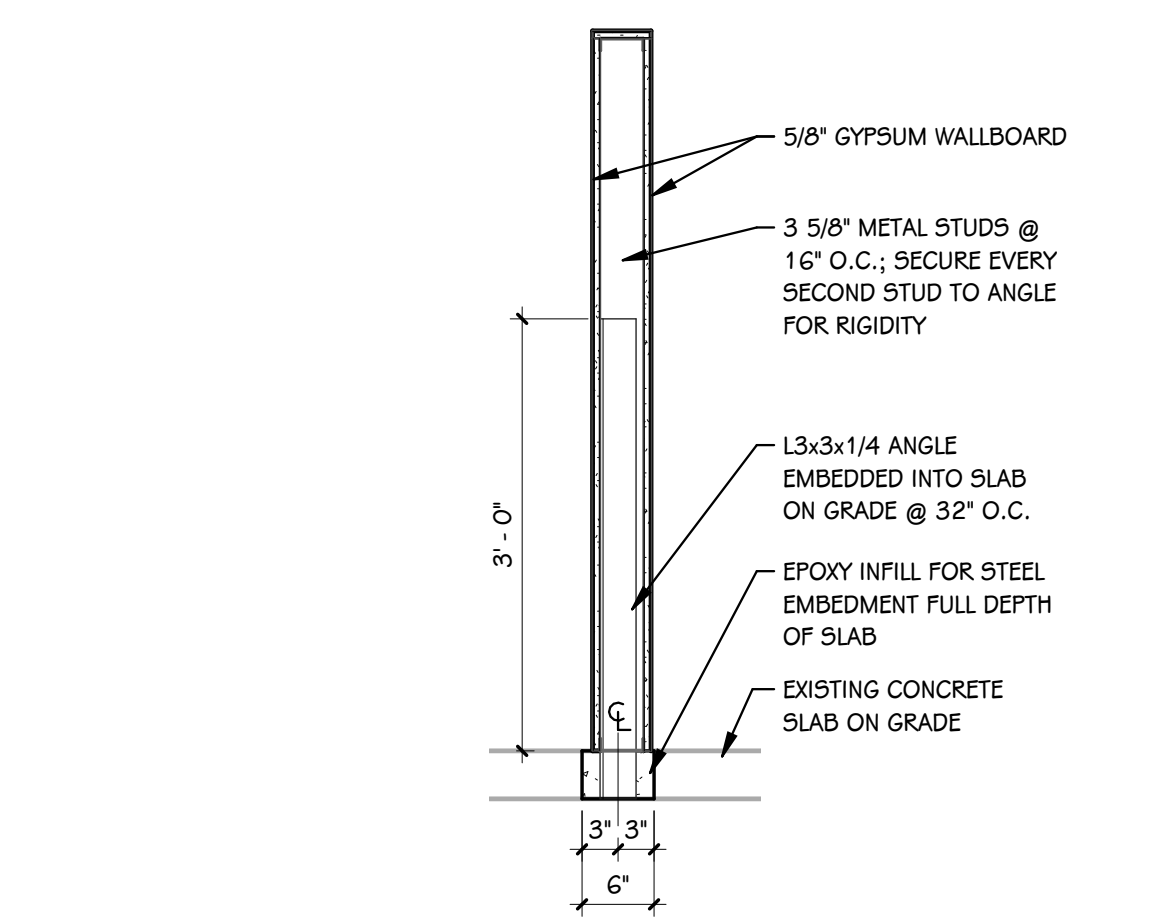
2 WALL SECTION
3/4" = 1'-0"



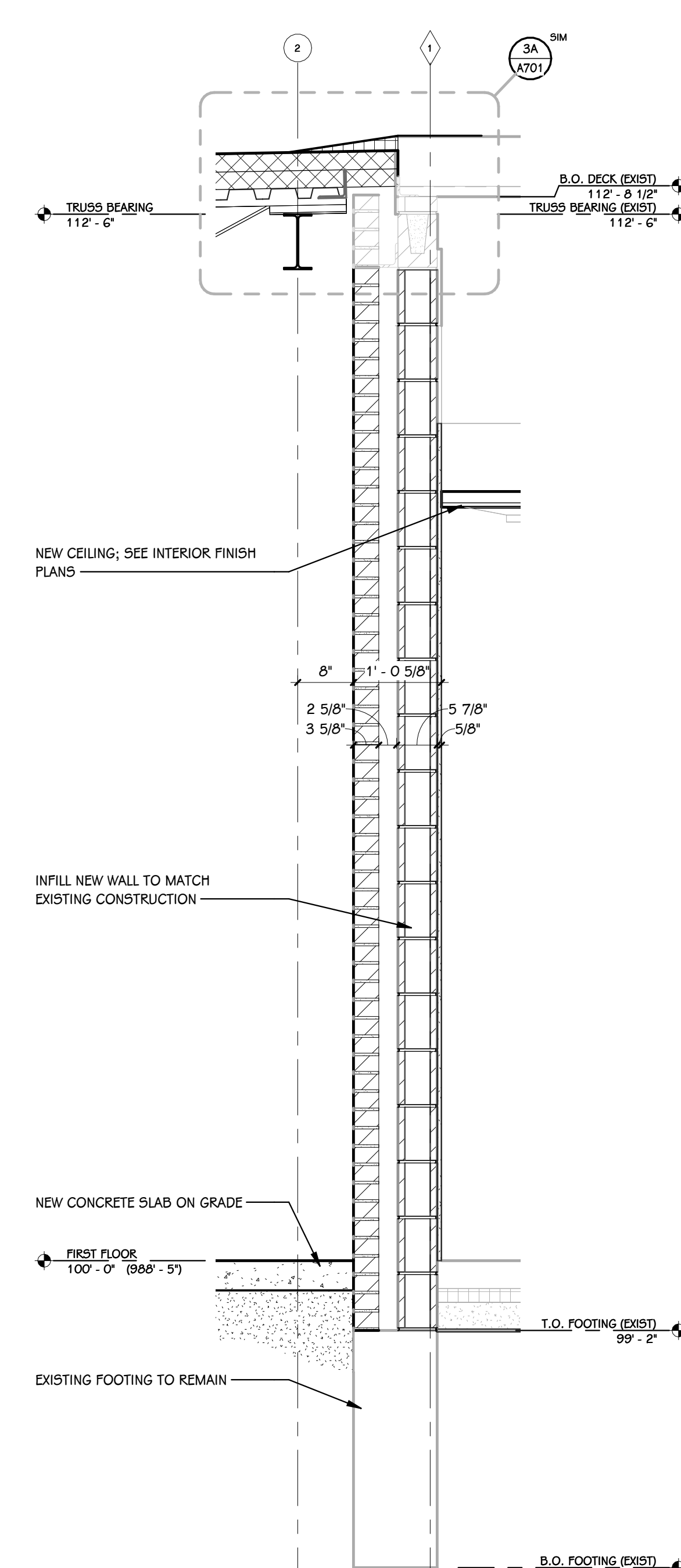
3A SECTION DETAIL
1 1/2" = 1'-0"



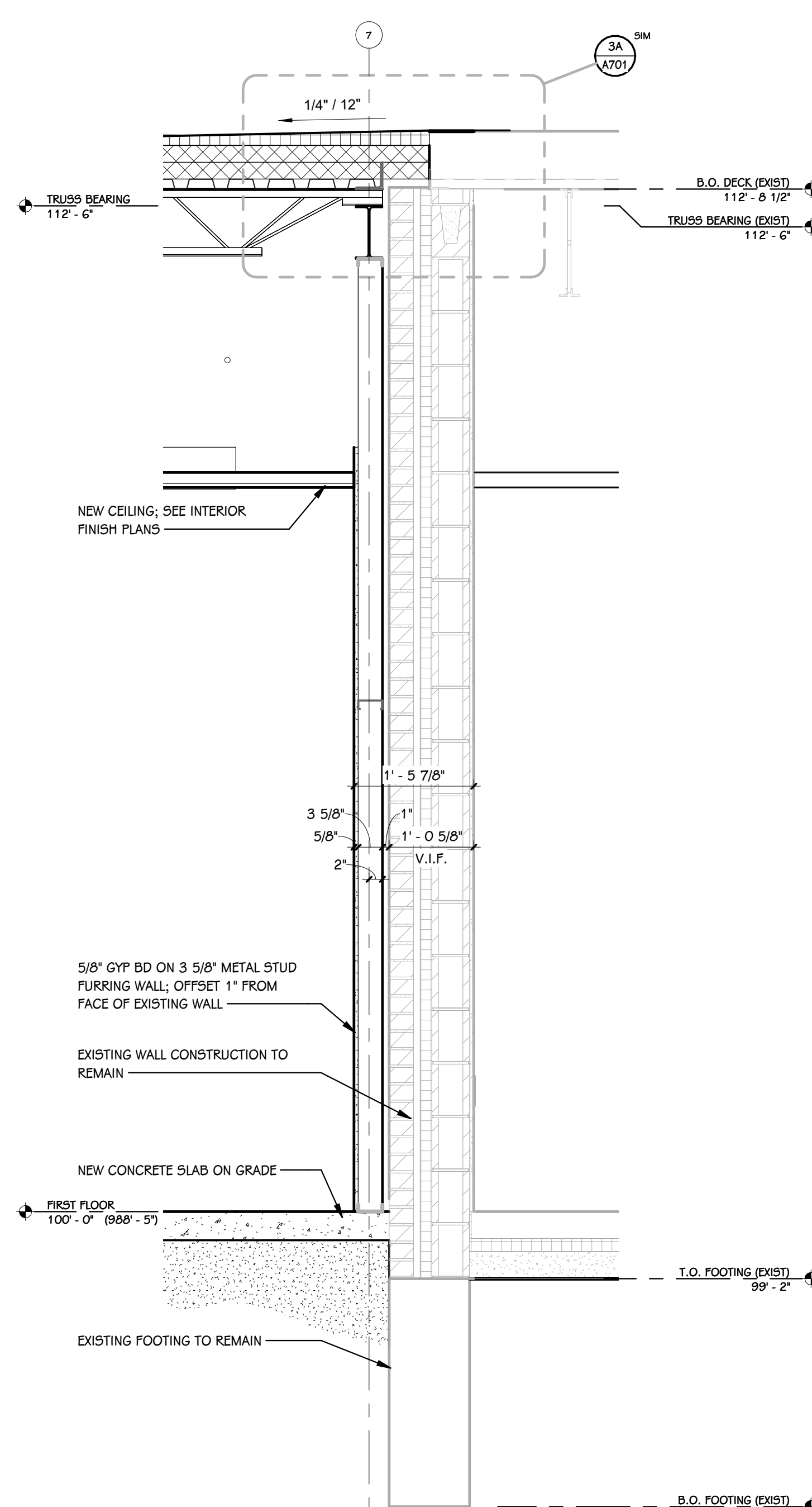
3 WALL SECTION
3/4" = 1'-0"



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



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



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

DOOR SCHEDULE

NUMBER		ROOM NAME	FIRE RATING		DOOR		SIZE		FRAME		DETAILS		GLASS	ACCESS CONTROLS			HDWR. SET	REMARKS
DOOR	ROOM		DOOR	FRAME	TYPE	MAT	WIDTH	HEIGHT	ELEV	MAT	HEAD	JAMB		CARD READER	ELEC. LOCK HDWR.	MAG HOLD		
A102B	A103	UTILITY	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	7	-
A107	A107	I.S.S.	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	3	-
A108B	A108B	BOOK STORAGE	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	7	-
A112B	A112B	OFFICE	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	8	-
D100A	D100A	VEST.	-	-	FG2	AL	6'-0"	7'-0"	SP2	AL	5	4	G2	Yes	Yes	No	10	1
D100B	D100A	VEST.	-	-	FG2	AL	6'-0"	7'-0"	SP2	AL	6	-	G2	No	No	No	2	-
D100C	D100B	VEST.	-	-	FG2	AL	6'-0"	7'-0"	-	AL	5	4	G2	Yes	Yes	No	1	-
D100D	D100B	VEST.	-	-	FG2	AL	6'-0"	7'-0"	-	AL	5	4	G2	Yes	Yes	No	1	-
D100E	D100	CORR.	-	-	FG2	AL	6'-0"	7'-0"	-	AL	5	4	G2	Yes	Yes	No	1	-
D100F	D100	CORR.	-	-	FG2	AL	6'-0"	7'-0"	-	AL	5	4	G2	Yes	Yes	No	1	-
D100G	D100	CORR.	-	-	N	WD	3'-0"	7'-0"	F1	HM	5	4	G1	Yes	Yes	No	2	-
D100H	C19G	CORRIDOR	180 MIN	180 MIN	F	HM	6'-0"	7'-0"	F1	HM	9	8	-	No	No	Yes	6	1
D100J	A102	SECRETARY	180 MIN	180 MIN	F	HM	4'-0"	7'-0"	F1	HM	9	8	-	No	No	Yes	5	-
D101	D101	CLASSROOM 1	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D101A	D101A	R.R.	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	4	-
D102	D102	CLASSROOM 2	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D102A	D102A	R.R.	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	4	-
D103	D103	CLASSROOM 3	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D103A	D103A	R.R.	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	4	-
D104	D104	FUTURE CLASSROOM	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D105A	D105	FUTURE CLASSROOMS	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D105B	D105	FUTURE CLASSROOMS	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	-
D106	D105	FUTURE CLASSROOMS	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	3
D107	D105	FUTURE CLASSROOMS	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	3	3
D108	D108	OFFICE	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	8	-
D109	D109	OFFICE	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	8	-
D110	D110	OFFICE	-	-	N	WD	3'-0"	7'-0"	F1	HM	10	11	G1	No	No	No	8	-
D111	D111	R.R.	-	-	F	WD	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	4	-
D112	D112	J.C.	-	-	F	HM	3'-0"	7'-0"	F1	HM	10	11	-	No	No	No	7	-

HARDWARE SETS

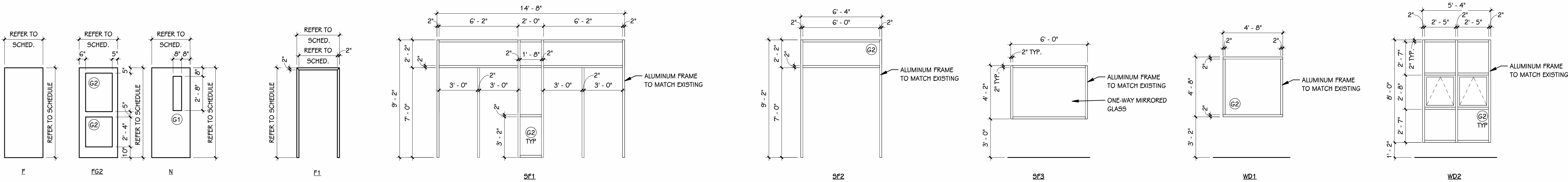
- ENTRANCE DOOR PAIR - 1
 - HINGES: HAGER BB1199 (PAIR)
 - CLOSER: LCN 4111 (PAIR)
 - PANIC DEVICE: VON DUPRIN 99 SERIES ELECTRIFIED RIM EXIT DEVICE (PAIR)
 - THRESHOLD: SADDLE TYPE, BARRIER FREE (PAIR)
 - WEATHER-STRIP: MANUFACTURER STANDARD (PAIR)
- INTERIOR VESTIBULE DOOR
 - HINGES: HAGER BB1199
 - CLOSER: LCN 4111
 - PUSH/PULL: SEE SPECIFICATIONS
- CLASSROOM DOOR
 - HINGES: HAGER BB1168
 - LOCKSET: CLASSROOM TYPE
 - STOP: HAGER 243F
- RESTROOM DOOR
 - HINGES: HAGER BB1168
 - CLOSER: LCN 4111
 - LOCKSET: PRIVACY TYPE
 - STOP: HAGER 243F
- FIRE EGRESS DOOR
 - HINGES: HAGER BB1168
 - CLOSER: LCN 4111
 - PANIC DEVICE: VON DUPRIN 99 SERIES RIM EXIT DEVICE
 - LOCKSET: PASSAGE TYPE
 - STOP: HAGER 243F
 - MAG HOLD: SEE SPECIFICATIONS
- FIRE EGRESS DOUBLE DOOR
 - HINGES: HAGER BB1168 (PAIR)
 - CLOSER: LCN 4111 (180 DEGREE SWING) (PAIR)
 - PANIC DEVICE: VON DUPRIN 99 SERIES RIM EXIT DEVICE (PAIR)
 - LOCKSET: PASSAGE TYPE (PAIR)
 - STOP: HAGER 243F (PAIR)
 - MAG HOLD: SEE SPECIFICATIONS
- STORAGE ROOM DOOR
 - HINGES: HAGER BB1168
 - CLOSER: LCN 4111
 - LOCKSET: STOREROOM TYPE
 - STOP: HAGER 243F
- OFFICE DOOR
 - HINGES: HAGER BB1168
 - LOCKSET: OFFICE TYPE
 - STOP: HAGER 243F
- ADMIN CORRIDOR DOOR
 - HINGES: HAGER BB1168
 - CLOSER: LCN 4111
 - PANIC DEVICE: VON DUPRIN 99 SERIES (PAIR)
 - ELECTRIC STRIKE: VON DUPRIN 6100 SERIES (PAIR)
 - THRESHOLD: SADDLE TYPE, BARRIER FREE (PAIR)
 - WEATHER-STRIP: MANUFACTURER STANDARD (PAIR)
- ENTRANCE DOOR PAIR - 2
 - HINGES: HAGER BB1199 (PAIR)
 - CLOSER: LCN 4111 (PAIR)
 - PANIC DEVICE: VON DUPRIN 99 SERIES (PAIR)
 - ELECTRIC STRIKE: VON DUPRIN 6100 SERIES (PAIR)
 - THRESHOLD: SADDLE TYPE, BARRIER FREE (PAIR)
 - WEATHER-STRIP: MANUFACTURER STANDARD (PAIR)

REMARKS

- PROVIDE REMOVABLE MULLION.

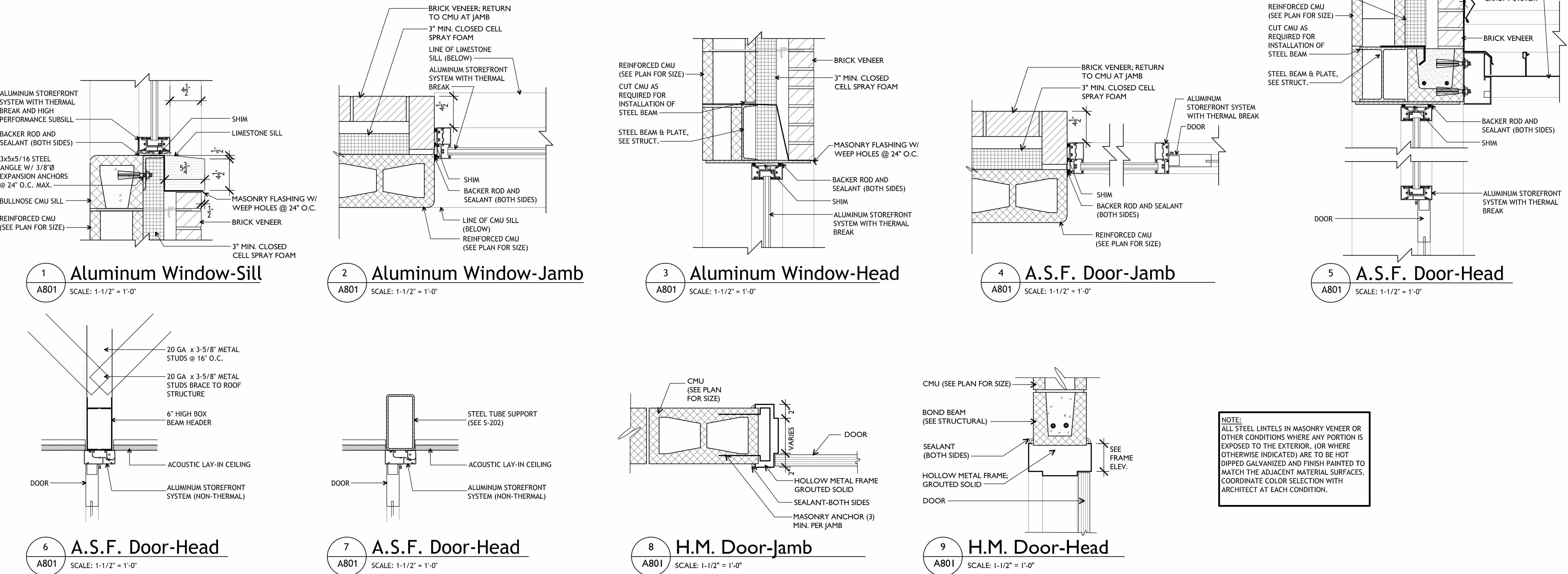
GLAZING TYPES

- G1 1/4" CLEAR LAMINATED GLASS
- G2 1" INSULATED, TINTED, LAMINATED GLASS



DOOR PANEL ELEVATIONS
SCALE: NONE

FRAME ELEVATIONS
SCALE: NONE

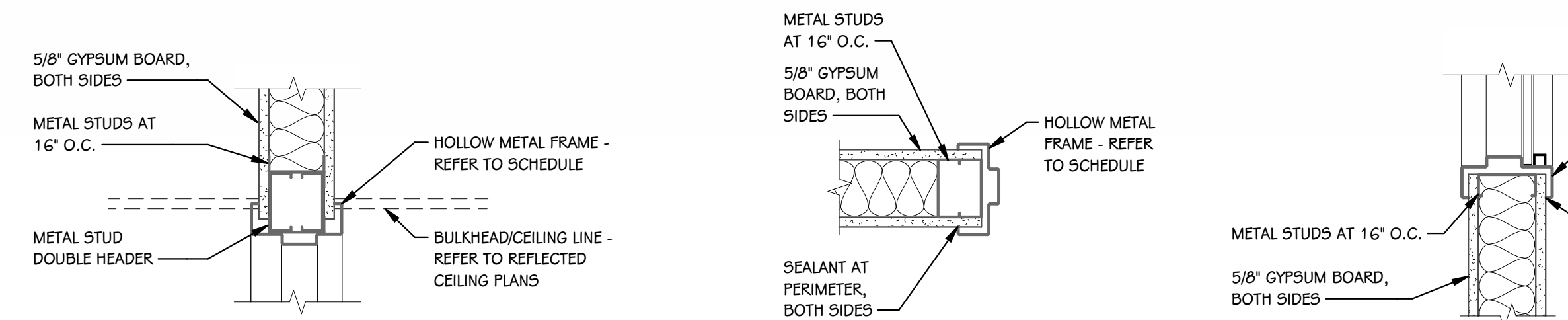


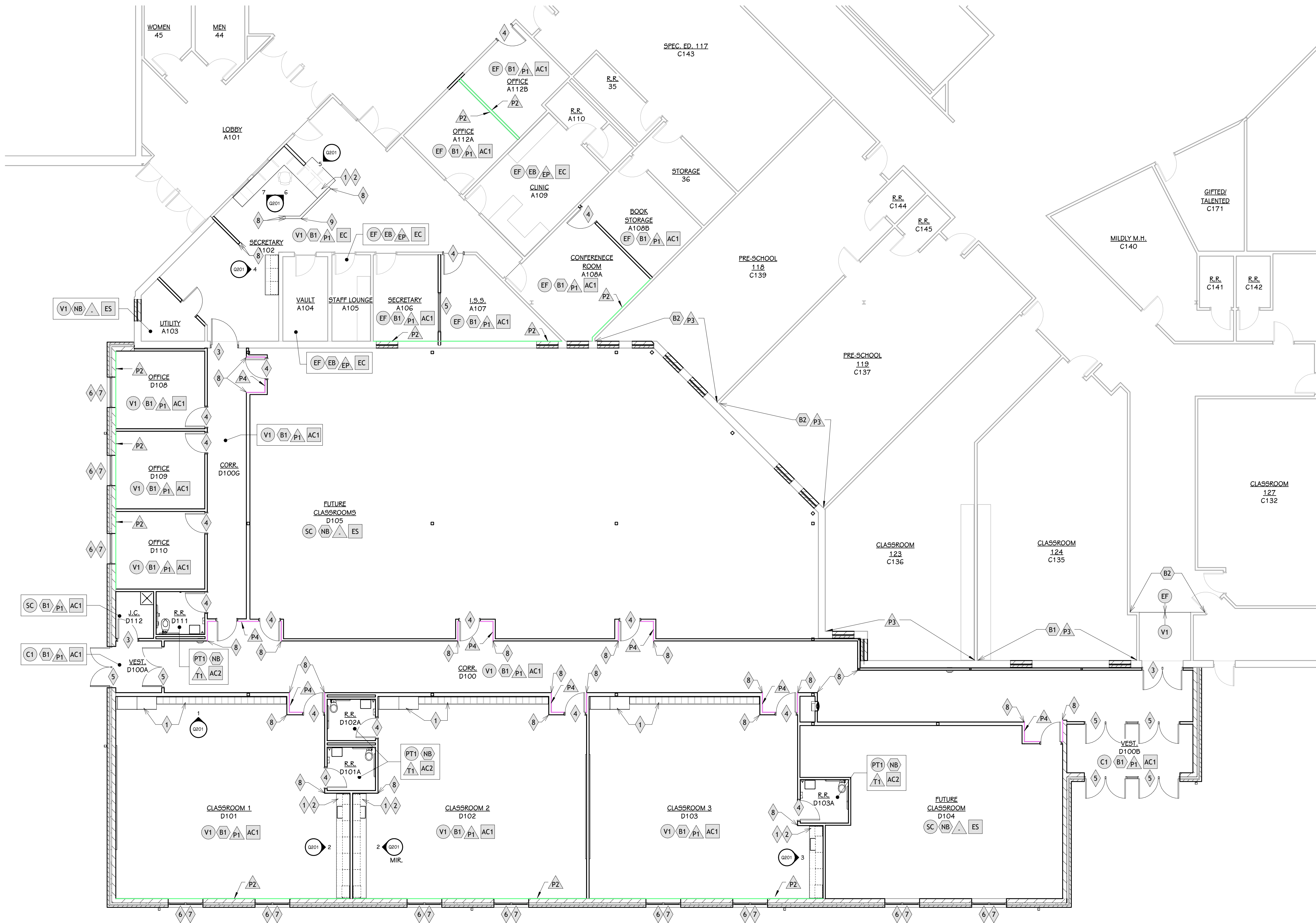
A.S.F. Door-Head
A801 SCALE: 1-1/2" = 1'-0"

A.S.F. Door-Head
A801 SCALE: 1-1/2" = 1'-0"

H.M. Door-Jamb
A801 SCALE: 1-1/2" = 1'-0"

H.M. Door-Head
A801 SCALE: 1-1/2" = 1'-0"

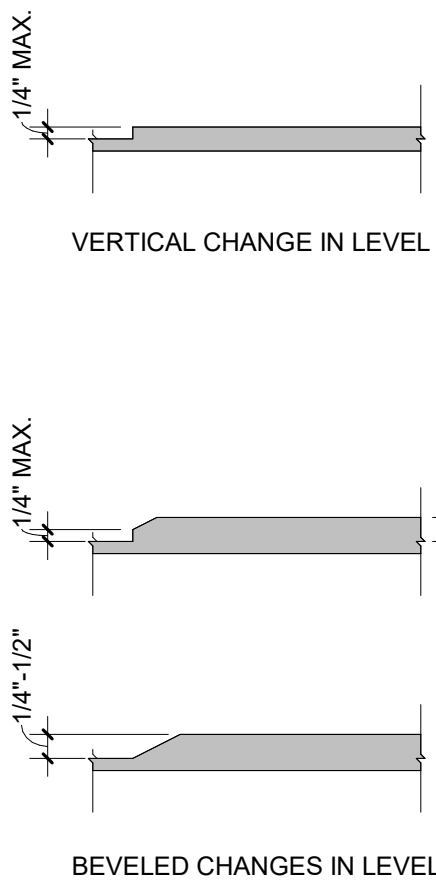




FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

General Finish Plan Notes:

- CONTRACTOR IS RESPONSIBLE TO PROVIDE A SMOOTH AND LEVEL TRANSITION BETWEEN DIFFERENT FLOOR FINISHES. CONTRACTOR TO PROVIDE TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOORING MATERIALS. SEE THIS SHEET FOR DETAILS.
- ALL NOTATIONS ARE INTENDED TO INDICATE FINISHES FOR ENTIRE AREA OF ITEM AND ALL EXPOSED SURFACES, INCLUDING WALL-TO-WALL, FLOOR-TO-CEILING, ENTIRE LENGTH OF SURFACE, ALL SIDES, ALL EDGES, AND ALL ASSOCIATED COMPONENTS, UNLESS OTHERWISE NOTED.
- ALL COLUMNS IN ROOMS AND AREAS ARE TO BE FINISHED TO MATCH WALL SURFACES OF THAT SPACE OR ADJACENT WALLS, UNLESS OTHERWISE NOTED.
- SEE REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS AND CLARIFICATION OF MATERIALS.
- TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS SHOULD OCCUR AT CENTER LINE OF DOOR OPENING. U.O.N
- INSTALL ALL MATERIALS PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ADHESIVES AND PRIMERS.



Changes in Level
3\"/>

FINISH SCHEDULE

Flooring

- C1** MODULAR WALK-OFF CARPET TILE: "PATCRAPT" 24" X 24" PATTERN- WALK RIGHT IN IT COLOR: TO BE SELECTED BY ARCHITECT INSTALLATION- QUARTER TURN
- V1** LUXURY VINYL TILE: MATERIAL ALLOWANCE: \$4.25 /SF DOMESTICALLY MADE MATERIAL ALLOWANCE DOES NOT INCLUDE INSTALLATION OF FREIGHT
- PT1** PORCELAIN TILE: "PORTOBELLO" ADROCK 12" X 24" COLOR: TO BE SELECTED BY ARCHITECT GROUT COLOR: TO BE SELECTED BY ARCHITECT INSTALLATION- STACKED
- SC** SEALED CONCRETE: "SONNEBORN" "KURE-N-SEAL" COLOR: CLEAR (1) COATS FOLLOWING CLEANING 4 PRIOR TO FINAL INSPECTION
- EF** EXISTING FLOOR: NO FINISH WORK REQUIRED

Base

- B1** RUBBER COVE BASE: TRADITIONAL WALL BASE; COLOR: TO BE SELECTED BY ARCHITECT 4" HIGH WITH 1/2" TOE
- B2** RUBBER COVE BASE: MATCH EXISTING WALL BASE 4" HIGH TRADITIONAL WALL BASE
- EB** EXISTING BASE: NO FINISH WORK REQUIRED
- NB** NO BASE: NO FINISH WORK REQUIRED

Walls

- P1** PAINT: FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR: TO BE SELECTED BY ARCHITECT
- P2** PAINT: FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR: TO BE SELECTED BY ARCHITECT
- P3** PAINT: FINISH PAINT, ALL EXPOSED SURFACES: MATCH EXISTING
- P4** PAINT: FINISH PAINT, ALL EXPOSED SURFACES: "SHERWIN WILLIAMS" COLOR: TO BE SELECTED BY ARCHITECT
- T1** PORCELAIN WALL TILE: "PORTOBELLO" ADROCK 12" X 24" COLOR: NICKEL GROUT COLOR: TO BE SELECTED BY ARCHITECT SEE ELEVATIONS ON 1300'S

Ceilings

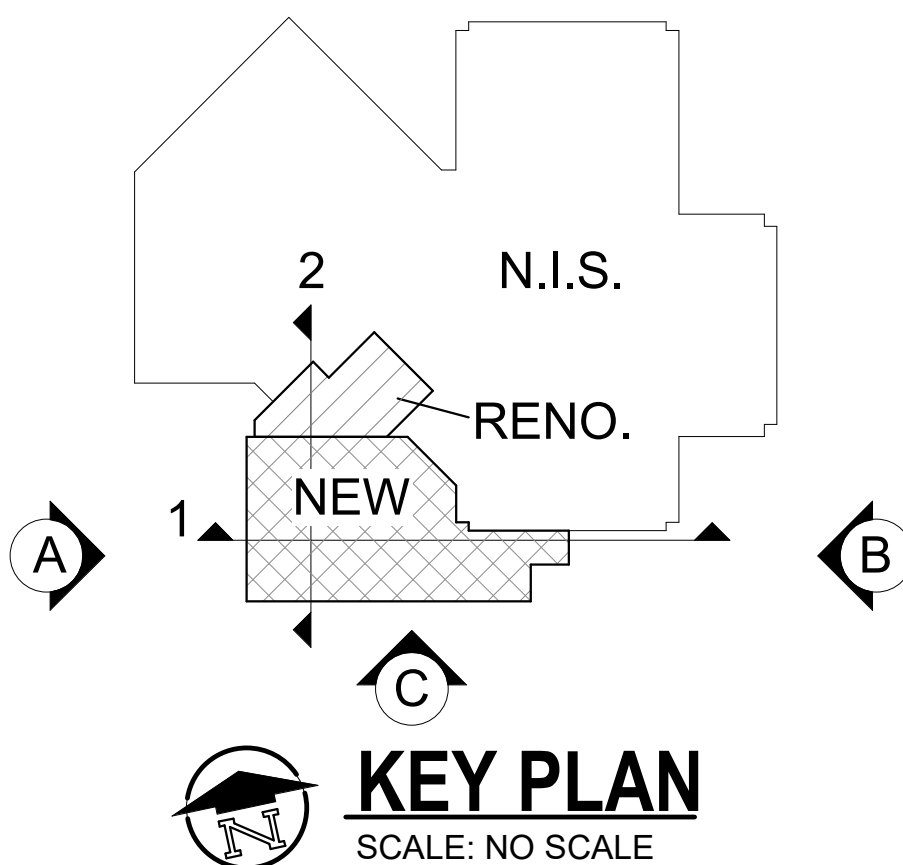
- AC1** ACOUSTICAL CEILING: TYPE "A" SEE SPECIFICATION 09 51 13
- AC2** VINYL FACED ACOUSTICAL CEILING: TYPE "B" SEE SPECIFICATION 09 51 13
- ES** EXPOSED STRUCTURE: NO FINISH WORK REQUIRED
- EC** EXISTING CEILING: NO FINISH WORK REQUIRED

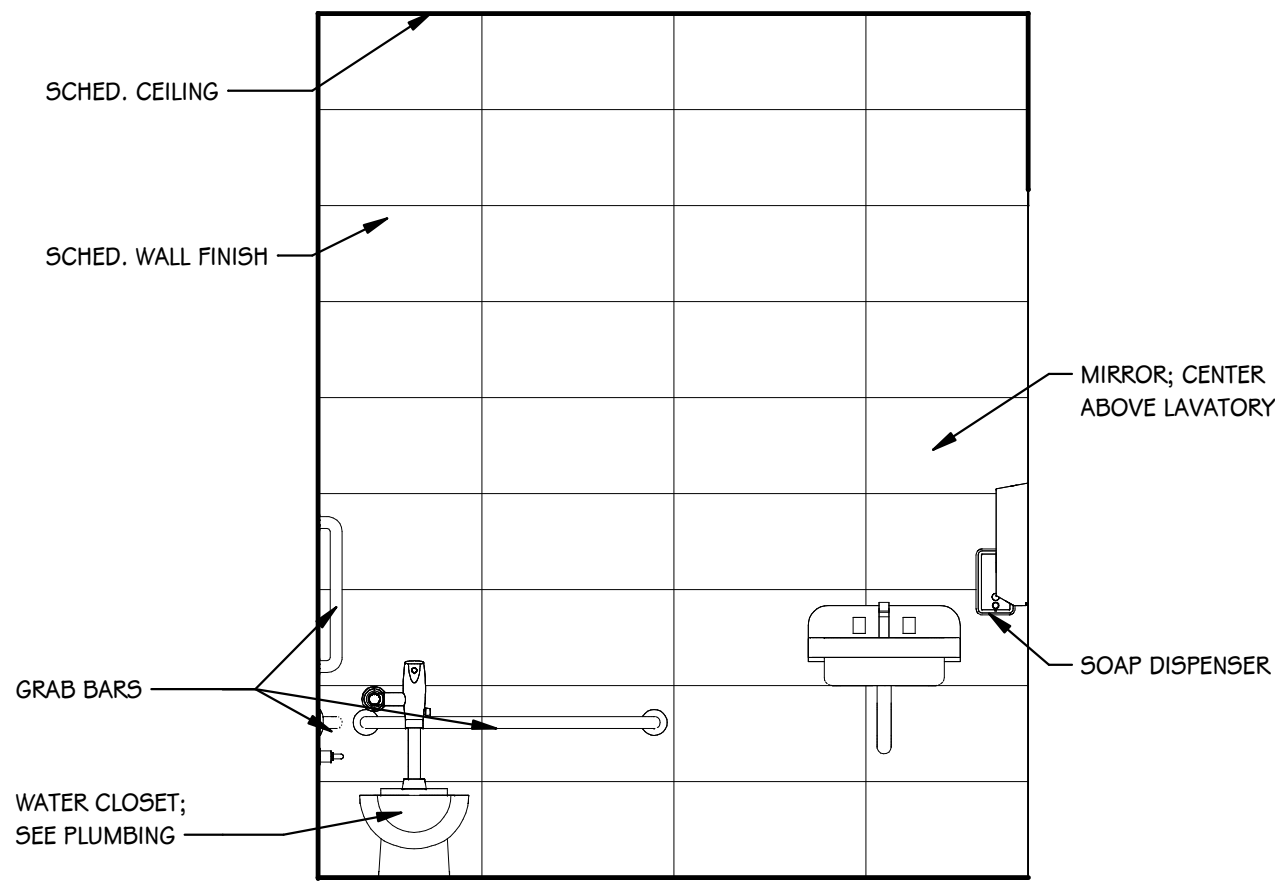
Specialties

- 1** PLASTIC LAMINATE CASEWORK: ALL EXPOSED SURFACES; COLOR: TO BE SELECTED BY ARCHITECT
- 2** SOLID SURFACE COUNTERTOP: ALL EXPOSED SURFACES; COLOR: TO BE SELECTED BY ARCHITECT
- 3** HOLLOW METAL DOOR & FRAME: FINISH PAINT, ALL EXPOSED SURFACES "SHERWIN WILLIAMS" COLOR: TO BE SELECTED BY ARCHITECT
- 4** WOOD DOOR & HOLLOW METAL FRAME: DOOR SPECIES- PLAIN SAUCED RED OAK; STAIN COLOR: TO BE SELECTED BY ARCHITECT METAL FRAME: FINISH PAINT, ALL EXPOSED SURFACES; "SHERWIN WILLIAMS" COLOR: TO BE SELECTED BY ARCHITECT
- 5** ALUMINUM STOREFRONT: PRE-FINISHED
- 6** SOLID SURFACE WINDOW SILL AND APRON: ALL EXPOSED SURFACES COLOR: TO BE SELECTED BY ARCHITECT
- 7** WINDOW SHADE: "PHIFER" SHEERWEAVE STYLE: 2410 3% OPENNESS COLOR: TO BE SELECTED BY ARCHITECT
- 8** CORNER GUARD: FULL HEIGHT; SEE RCP FOR CEILING HEIGHT, 90" 2" WING COLOR: TO BE SELECTED BY ARCHITECT
- 9** CORNER GUARD: FULL HEIGHT; SEE RCP FOR CEILING HEIGHT, 135" 3" WING COLOR: TO BE SELECTED BY ARCHITECT

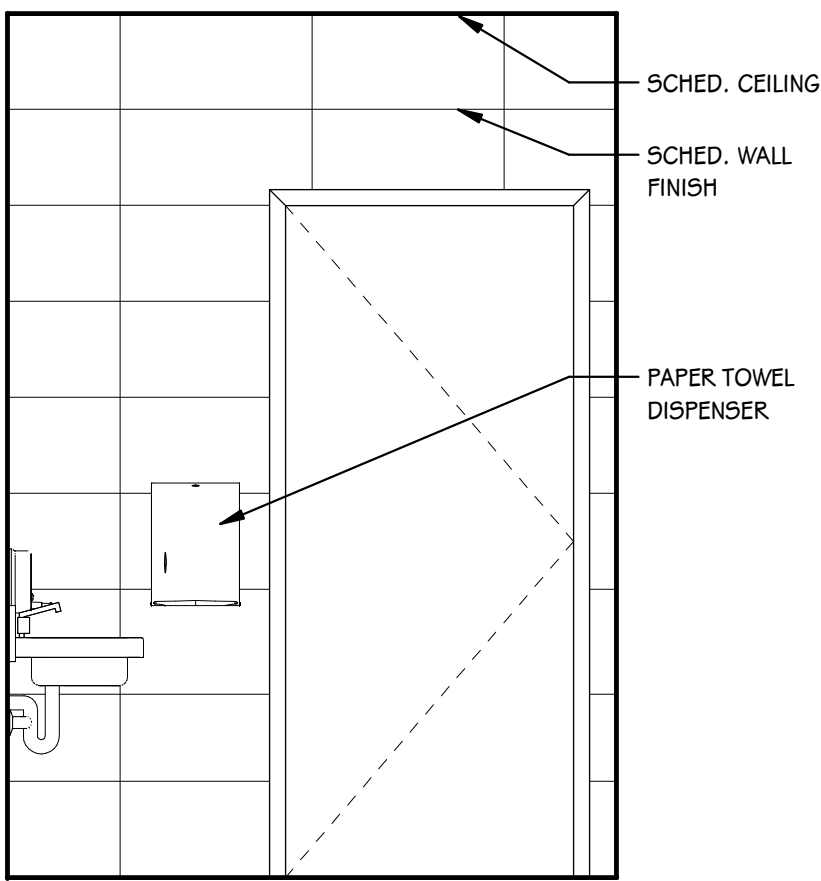
THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

MILAN ELEMENTARY SCHOOL

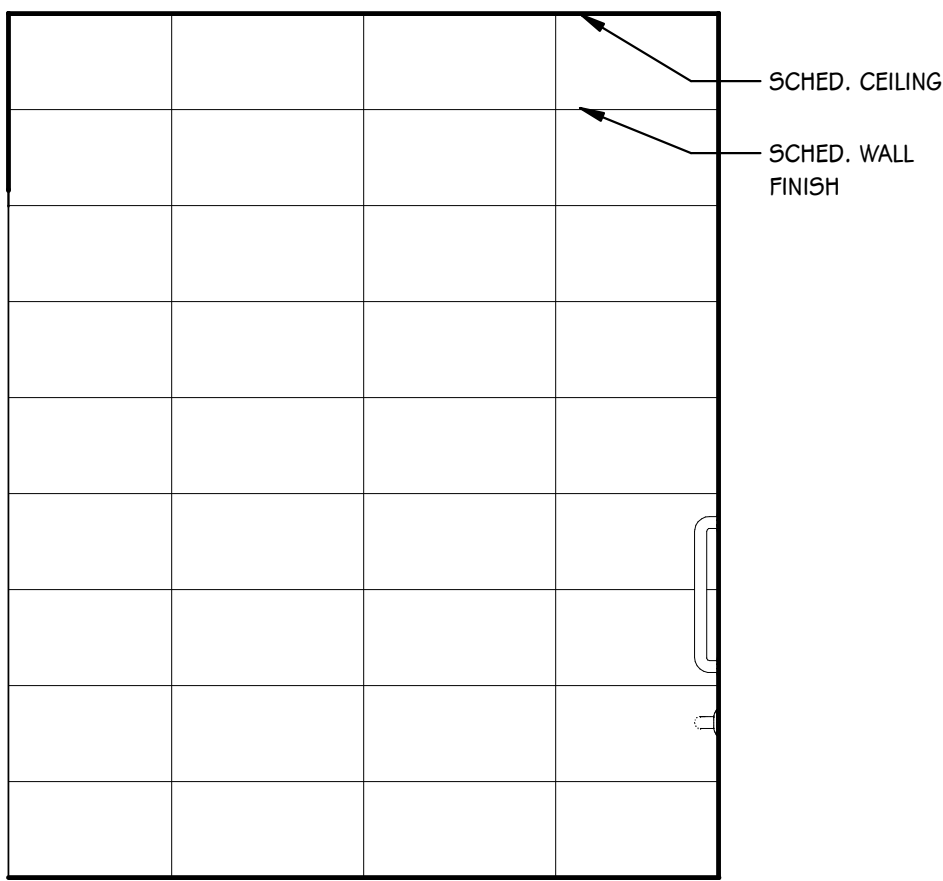




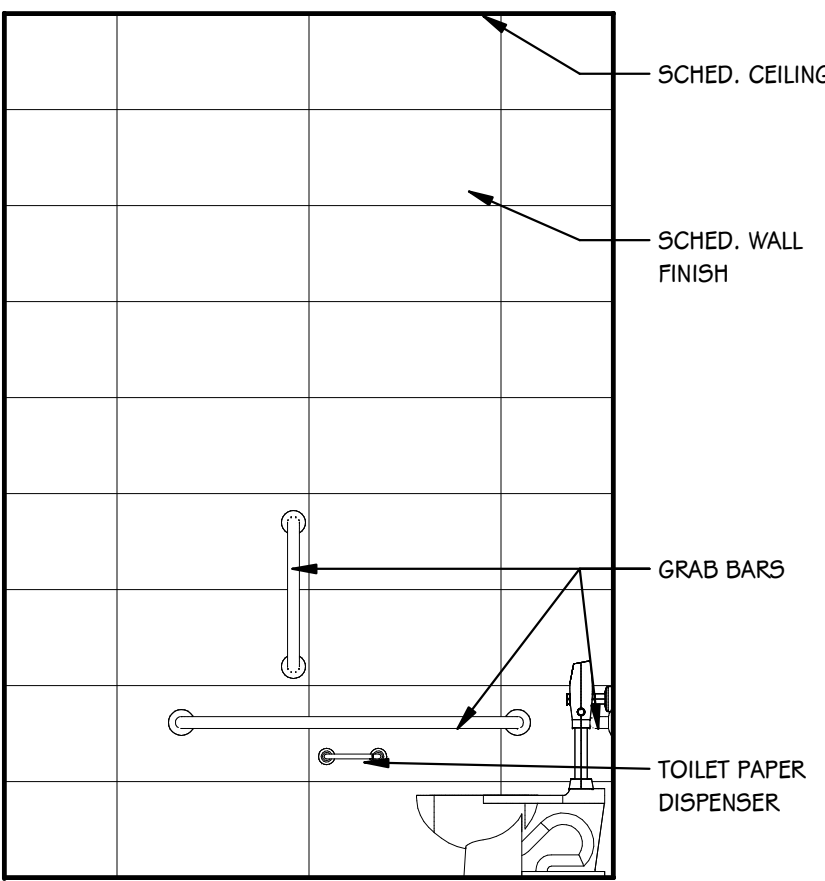
1 Classroom RR Elevation
1/2" = 1'-0"



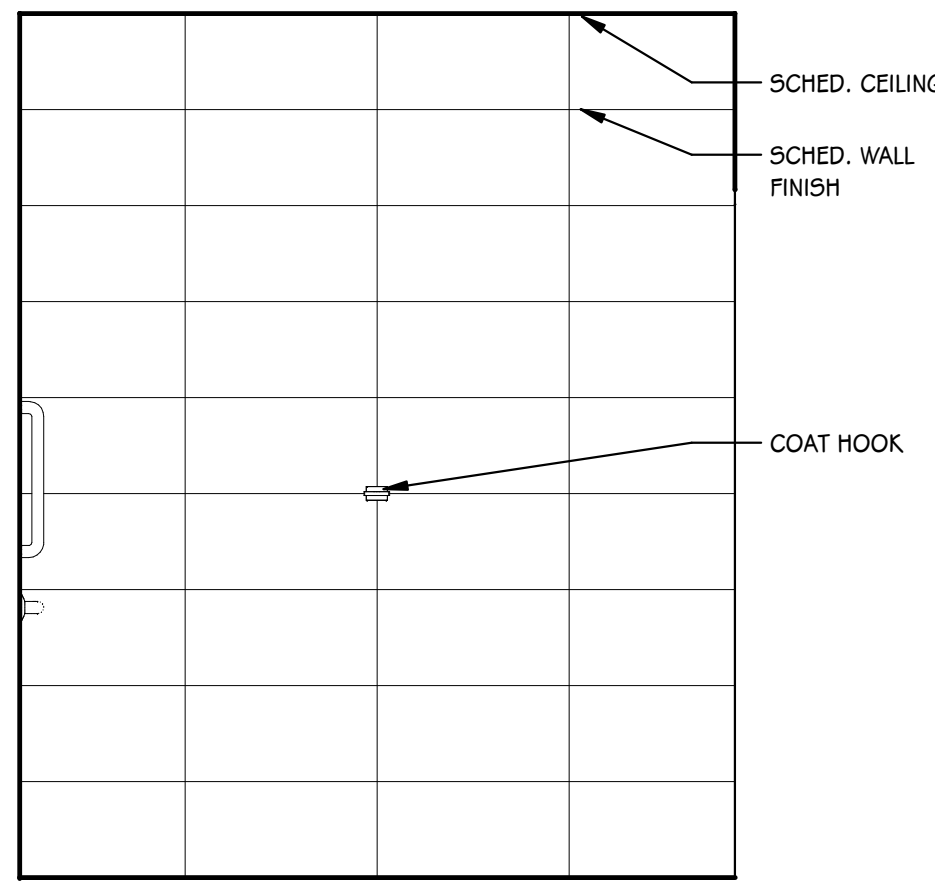
2 Classroom RR Elevation 2
1/2" = 1'-0"



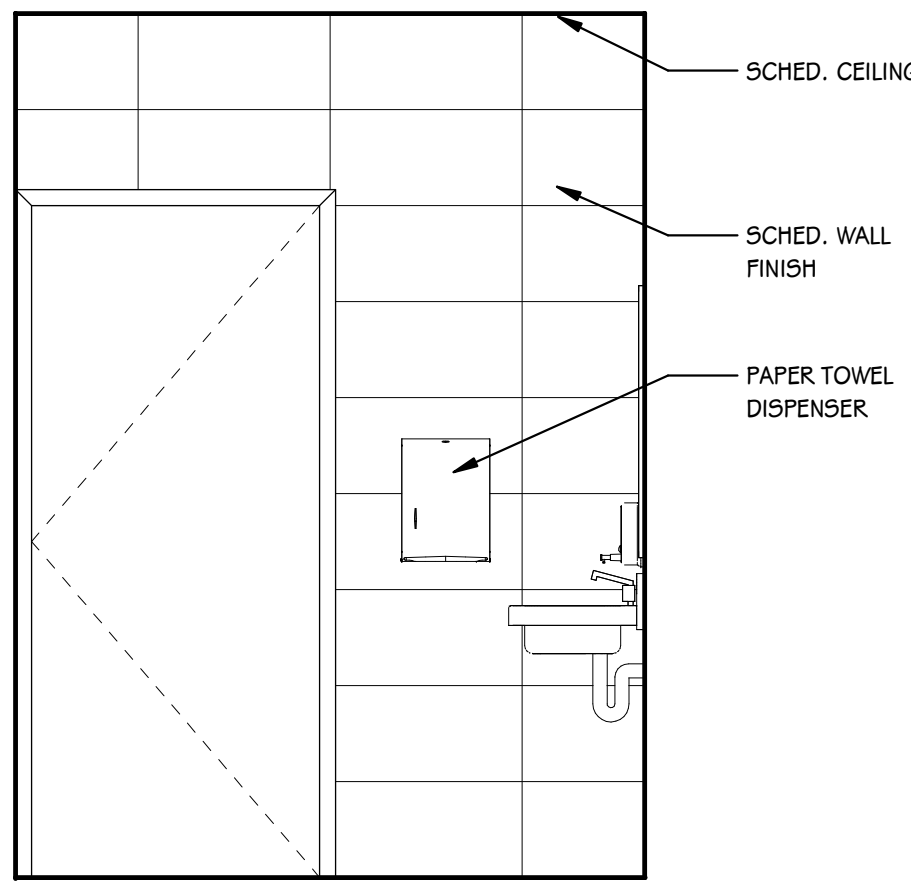
3 Classroom RR Elevation 3
1/2" = 1'-0"



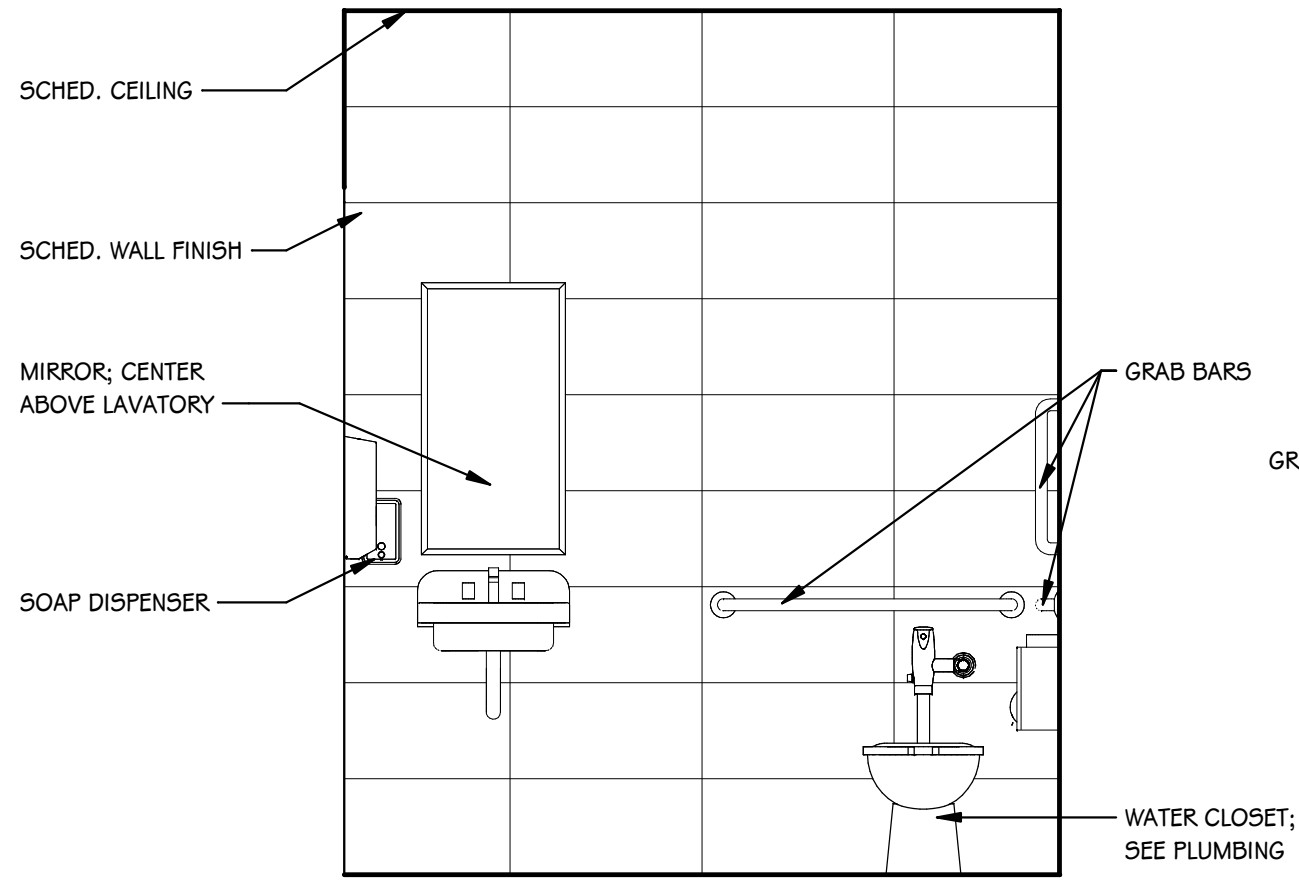
4 Classroom RR Elevation 4
1/2" = 1'-0"



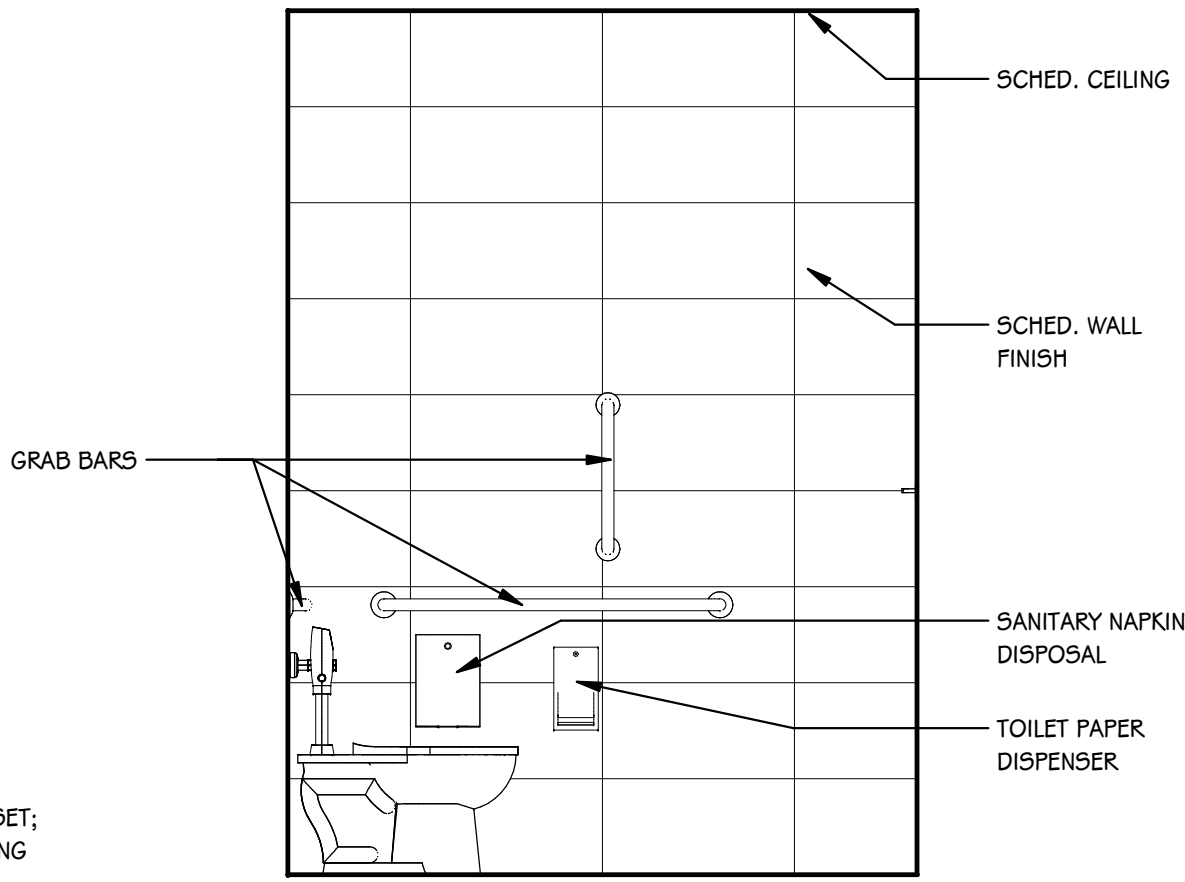
5 Staff RR North Elevation
1/2" = 1'-0"



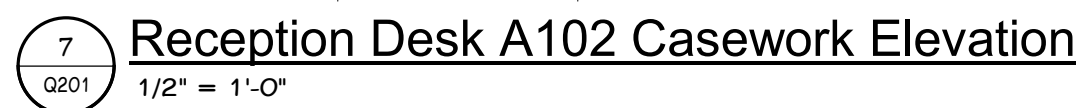
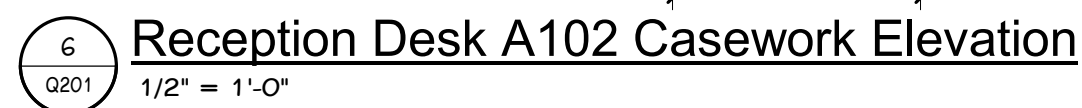
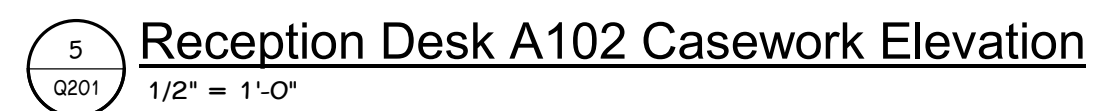
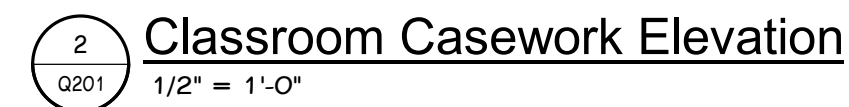
6 Staff RR East Restroom Elevation
1/2" = 1'-0"

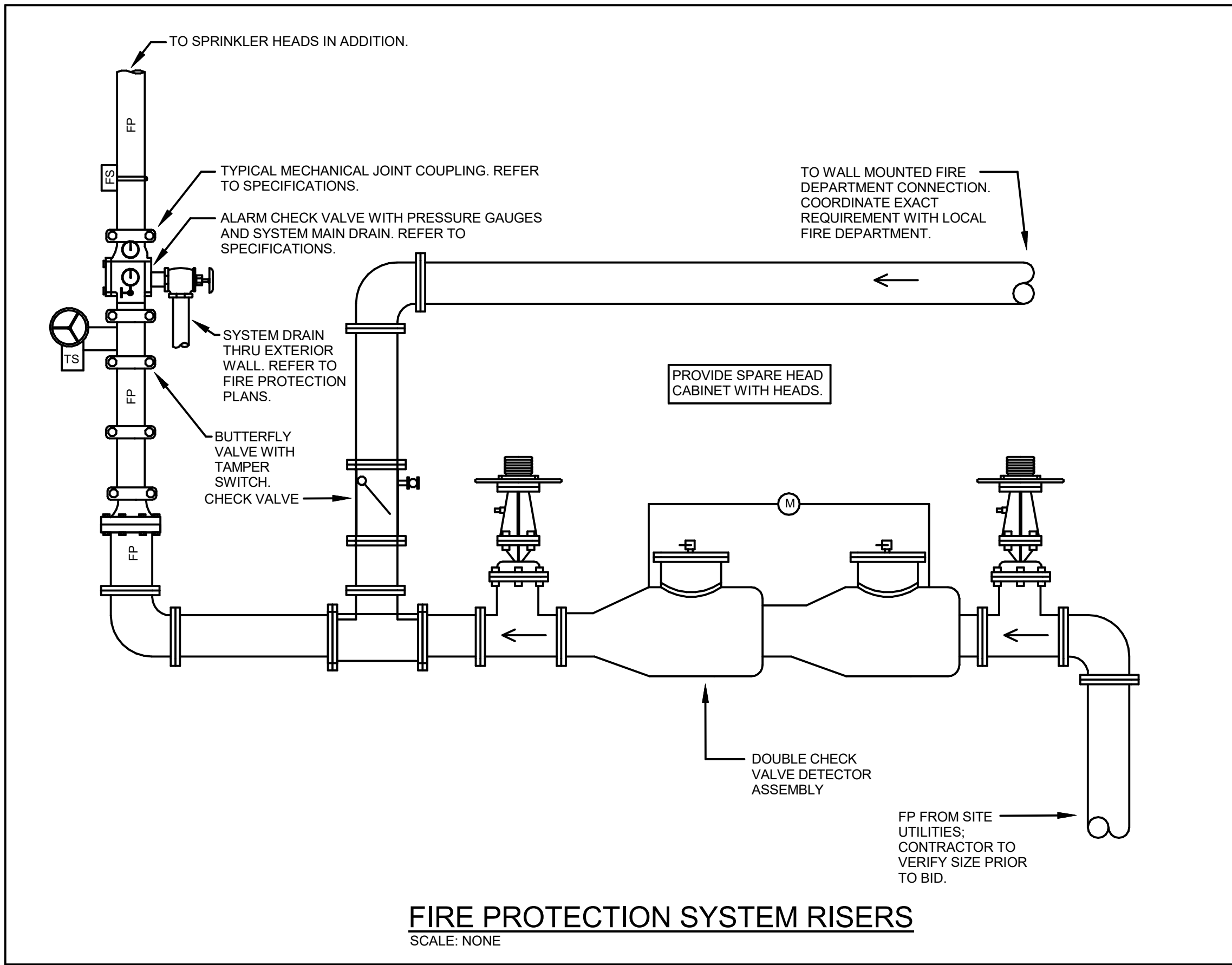


7 Staff RR South Elevation
1/2" = 1'-0"

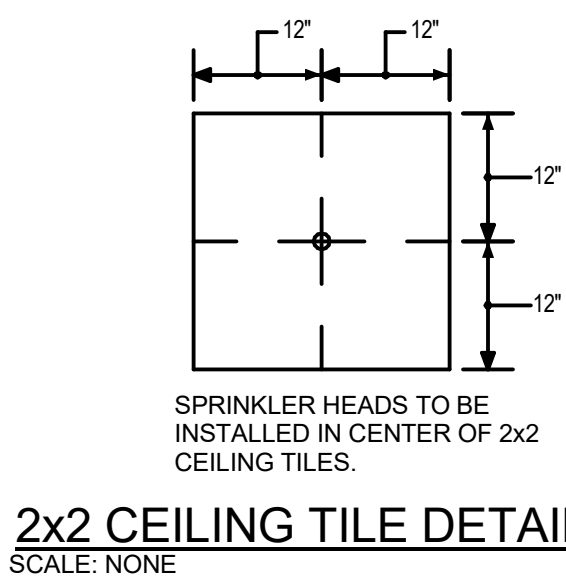


8 Staff RR West Elevation
1/2" = 1'-0"

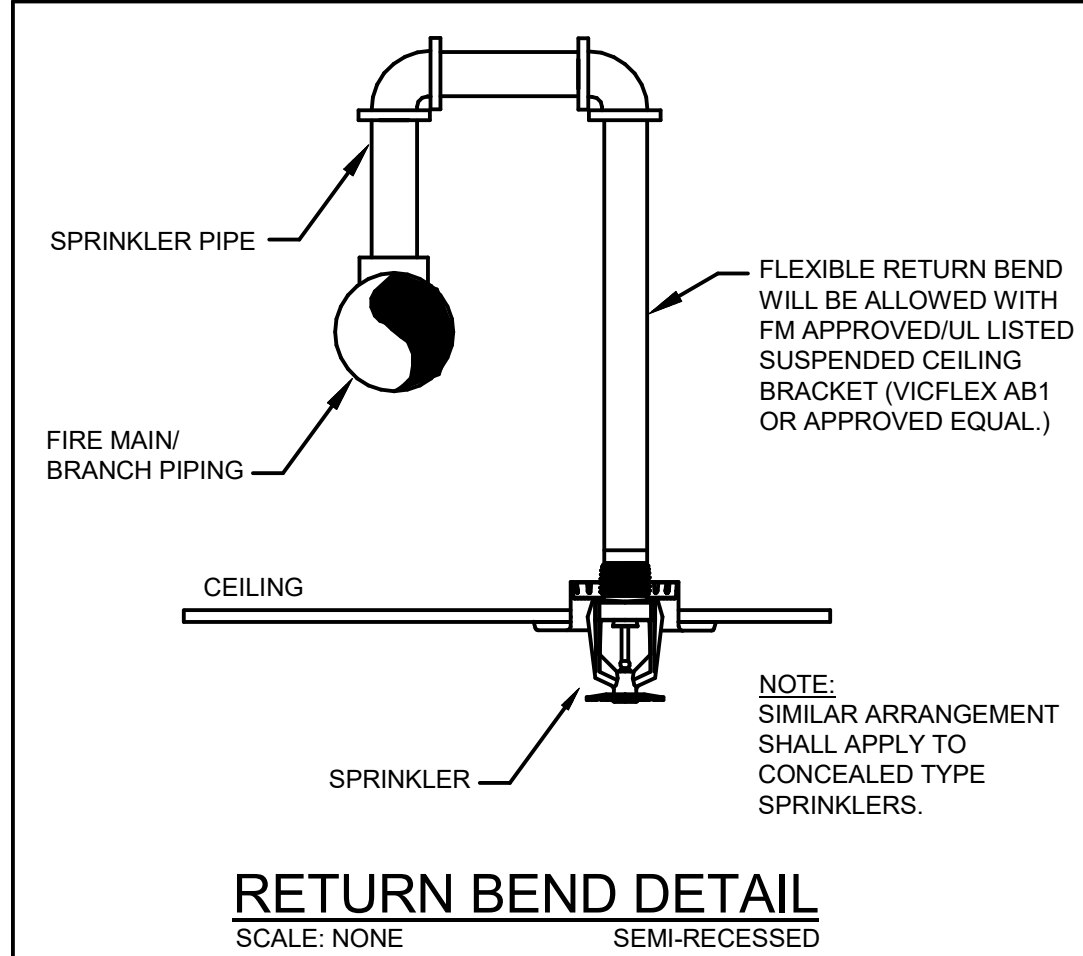




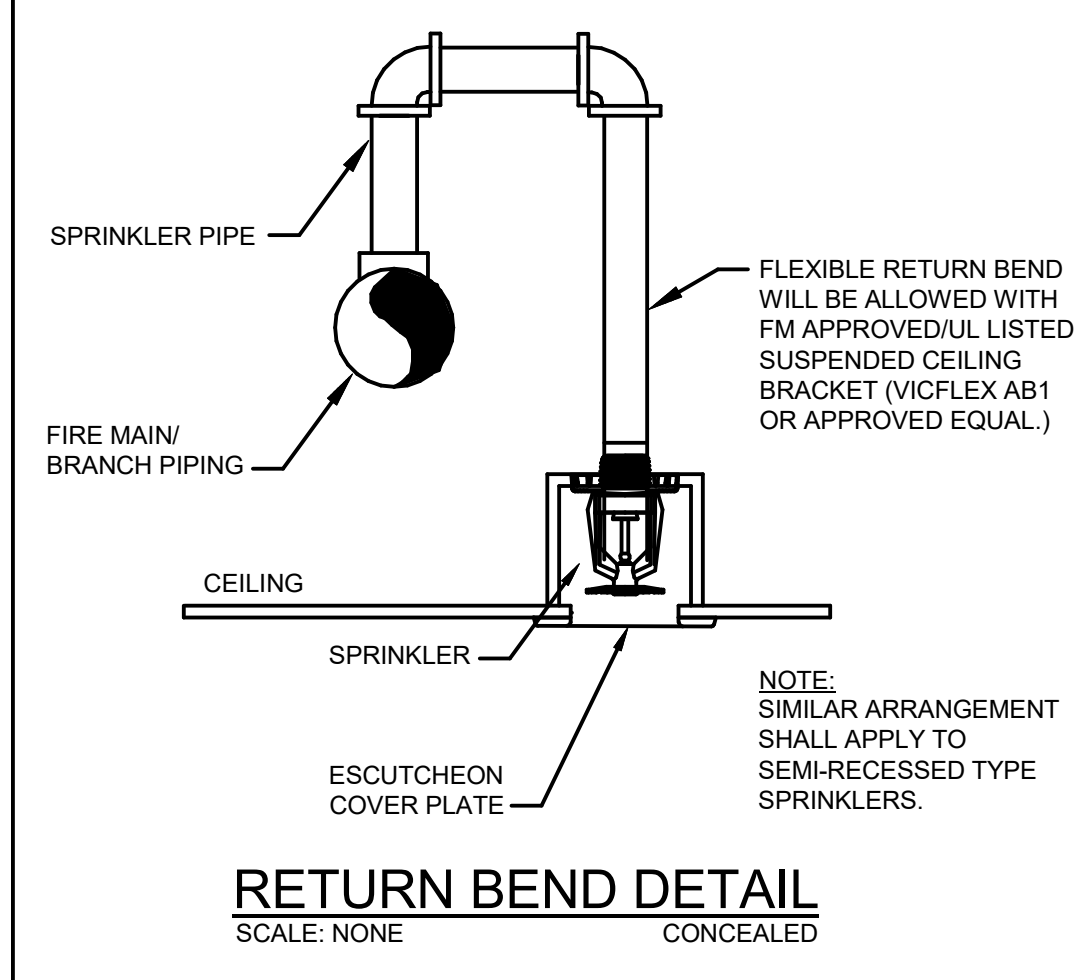
FIRE PROTECTION SYSTEM RISERS
SCALE: NONE



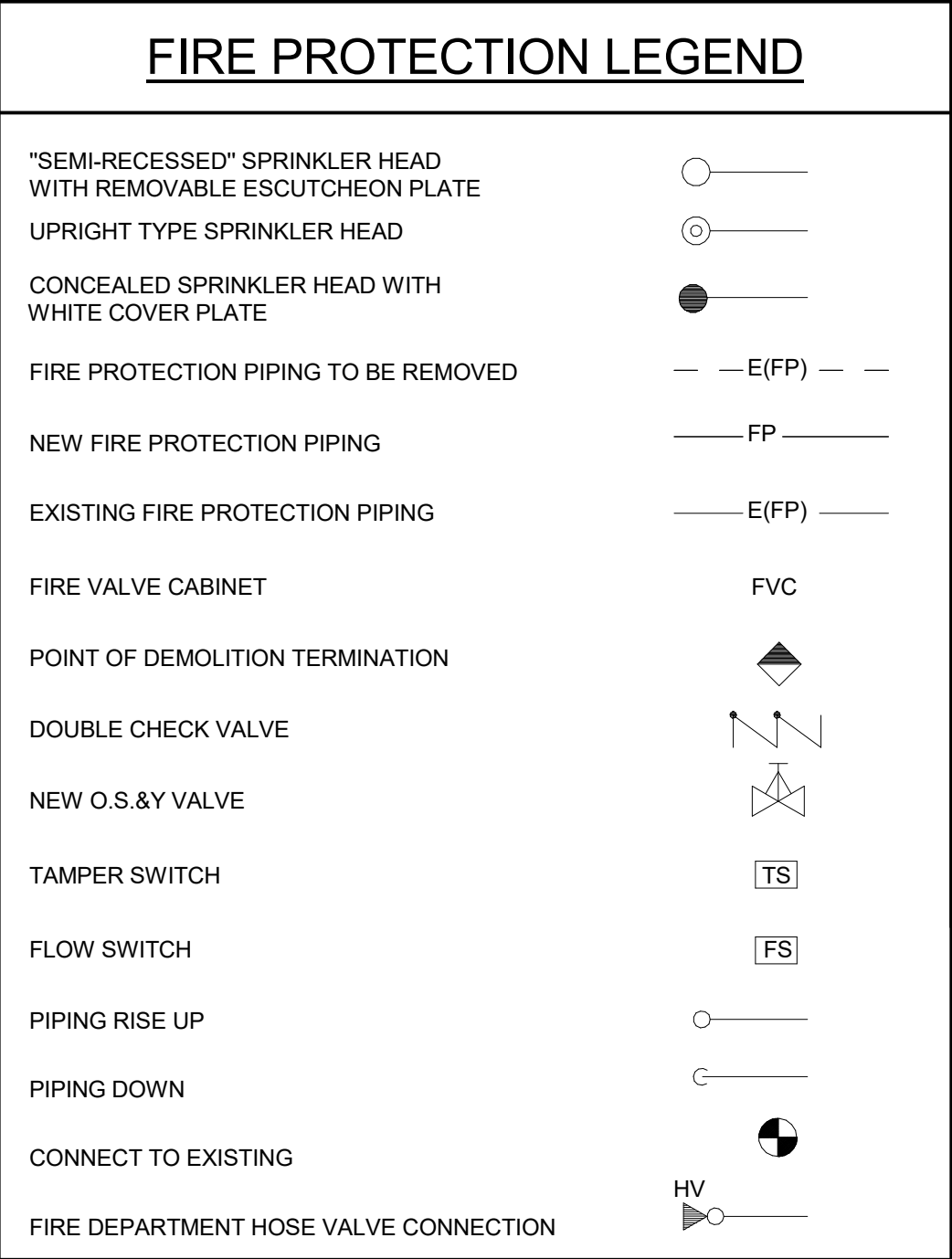
2x2 CEILING TILE DETAIL
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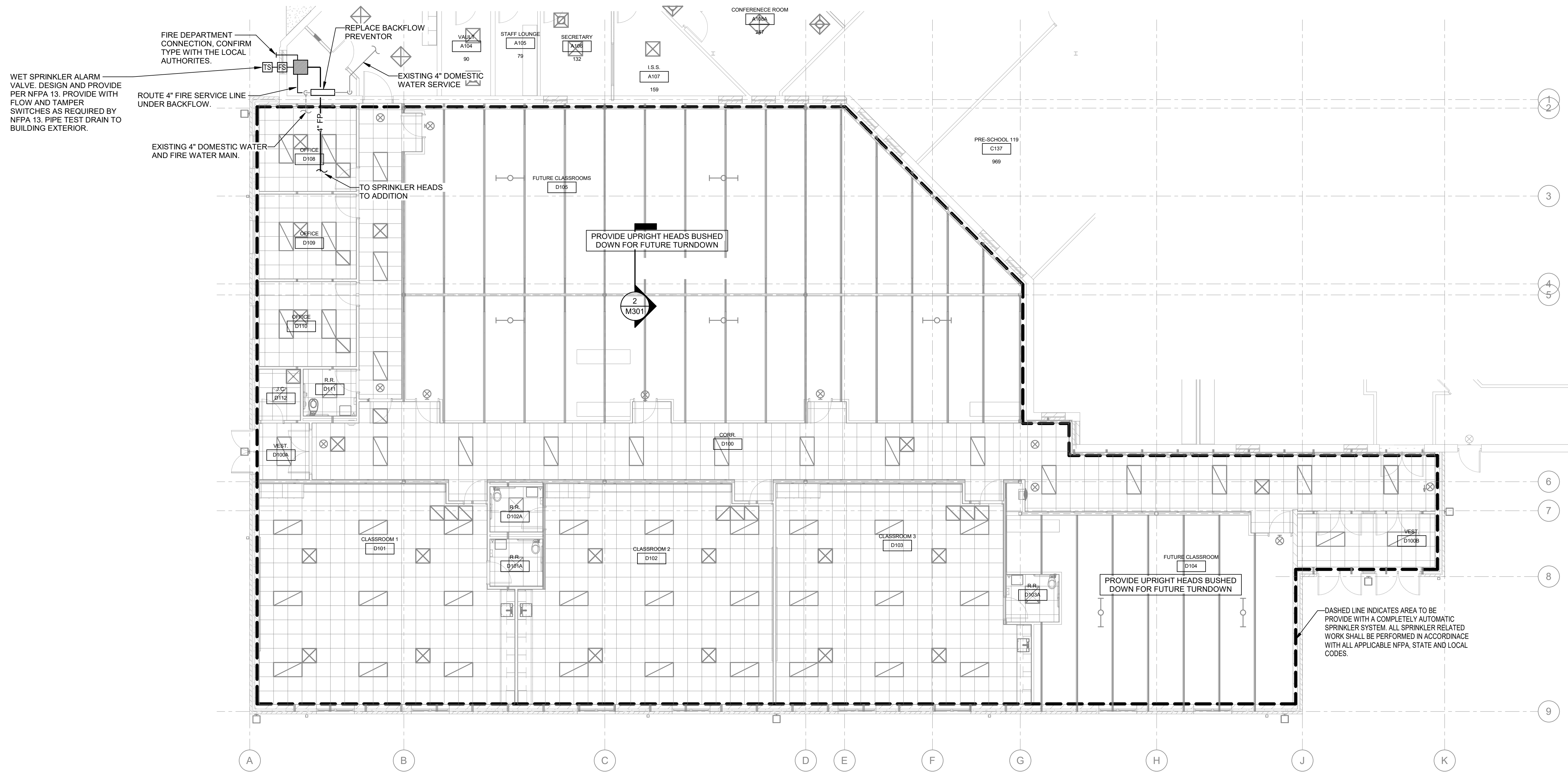
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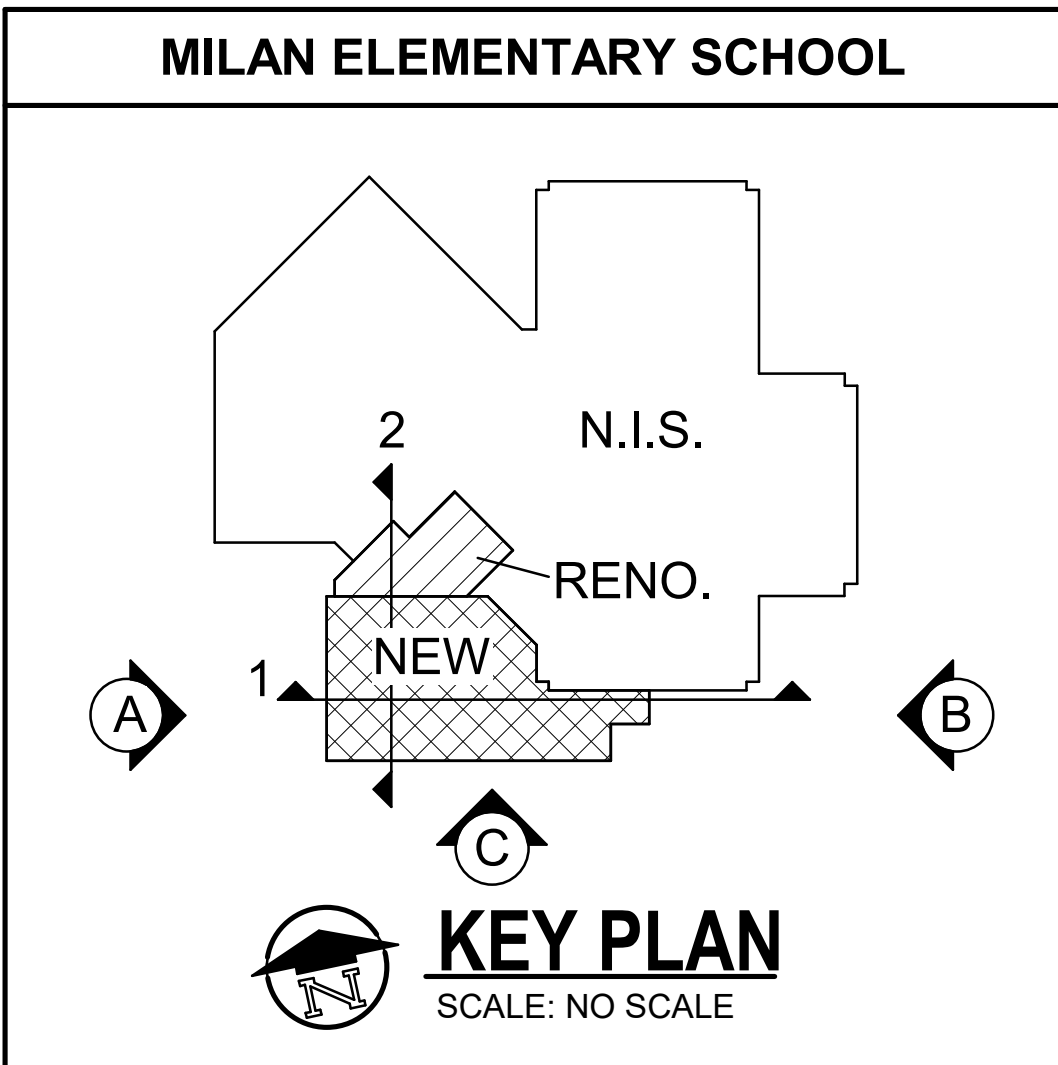
RETURN BEND DETAIL
SCALE: NONE CONCEALED



- GENERAL FIRE PROTECTION NOTES:**
- THE ENTIRE OUTLINED AREA SHALL BE 100% PROTECTED WITH A FULLY AUTOMATIC FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH ALL APPLICABLE NFPA (13, 14, 20), STATE, LOCAL, AND OWNERS INSURANCE UNDERWRITERS REQUIREMENTS.
 - THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE ALL APPLICABLE ARCHITECTURAL FLOOR PLANS, SECTIONS, AND REFLECTED CEILING PLANS FOR LAYING OUT SPRINKLERS. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS AND SPECIFICATIONS FOR COORDINATION OF TRADES, ROOMS, STRUCTURE, AND EQUIPMENT).
 - ALL AREAS ARE TO BE PROVIDED WITH QUICK RESPONSE SPRINKLERS (EXCEPTIONS PER NFPA SHALL BE APPLIED, IE MECHANICAL SPACES, ETC.). REFER TO FLOOR PLANS FOR LOCATIONS AND SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND MODELS.
 - ALL SPRINKLERS LOCATIONS SHALL BE COORDINATED WITH ALL OTHER CEILING RELATED DEVICES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CEILING CONSTRUCTION.
 - WHERE CEILINGS ARE INDICATED, ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST OFFSET AS REQUIRED TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.
 - HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM.
 - PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS.
 - SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
 - CONTRACTOR TO PROVIDE UPDATED FLOW TEST. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE M/E ENGINEER. REFER TO CHART ON THIS SHEET FOR PREVIOUS FLOW INFORMATION.
 - THE SPARE SPRINKLERS, WRENCH AND CABINET SHALL BE LOCATED IN THE UTILITY ROOM.
 - ONLY CERTIFIED TECHNICIANS APPROVED BY THE LOCAL WATER COMPANY SHALL INSTALL OR TEST BACKFLOW PREVENTERS.
 - CERTIFIED CONTRACTOR SHALL TEST BACKFLOW PREVENTER AFTER INSTALLATION. PROVIDE TEST RESULTS (INCLUDE IN OPERATION AND MAINTENANCE MANUALS).
 - BUILDING SHALL BE CLASSIFIED AS LIGHT/ORDINARY HAZARD. LIGHT HAZARD AREAS (IE: OFFICES, MEETING ROOMS, RESTROOMS, ETC.) SHALL BE PROVIDED WITH A SPRINKLER DENSITY OF 0.10 GPM / 1500 SQ.FT. ORDINARY HAZARD GROUP 1 AREAS (IE: CANOPIES WHERE VEHICLES CAN PARK, COURTROOMS, STORAGE, RECORDS ROOMS, SALLYPORT, ETC) SHALL BE PROVIDED WITH A SPRINKLER DENSITY OF 0.20 GPM / 1500 SQ.FT. THE AREA REDUCTION METHOD SHALL NOT BE APPLIED. COORDINATE ALL REQUIRED SPRINKLER DENSITIES WITH THE OWNERS INSURANCE UNDERWRITER AND USE THE GREATER. PROVIDE PLACARD AT THE INCOMING FIRE SERVICE.
 - COORDINATE ALL SPRINKLER PIPE ROUTINGS WITH ALL DISCIPLINES. NO PIPING SHALL BE INSTALLED OVER OR THROUGH ANY ELECTRICAL OR COMMUNICATIONS ROOMS.
 - THE CONTRACTOR SHALL INSURE THAT ALL PENETRATIONS OF THE AIR BARRIER BE SEALED TO MAINTAIN AN AIR TIGHT BUILDING.
 - FLOOR CONTROL VALVE ASSEMBLIES FOR EACH FIRE ZONE SHALL CONSIST OF, BUT ARE NOT LIMITED TO THE FOLLOWING: CONTROL VALVE WITH FLOW & TAMPER SWITCH, PRESSURE GAUGES, DRAIN VALVE WITH BYPASS, ETC.
 - COLOR FINISHES OF ALL SPRINKLERS/ESCUTCHEONS/COVER PLATES SHALL BE COORDINATED WITH ARCHITECT.
 - ALL AREAS HAVING NO CEILINGS SHALL BE PROVIDED WITH UPRIGHT TYPE SPRINKLERS. ALL OTHER LOCATIONS SHALL HAVE CONCEALED TYPE SPRINKLERS.
 - ARCHITECTURAL REFLECTED CEILING PLANS SHALL BE UTILIZED AS AN AID IN LOCATING SPRINKLERS BUT DOES NOT RELIEVE THE SPRINKLER CONTRACTOR FROM PROVIDING A FULLY PROTECTED BUILDING SPRINKLER LAYOUT. CONTRACTOR SHALL ALSO COORDINATE ALL SPRINKLER LOCATION WITH ALL TRADE DRAWINGS (LIGHTING, FIRE ALARM, SECURITY, HVAC, ETC.)
 - COORDINATE LOCATIONS OF THE FOLLOWING FIRE PROTECTION APARATUS: WITH THE LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION: FIRE DEPARTMENT CONNECTION (F.D.C.), POST INDICATOR VALVE (P.I.V.), FIRE ALARMS BELLS, ETC. COORDINATION SHALL ALSO INCLUDE VERIFICATION OF ALL HOSE CONNECTION SIZES, THREAD TYPES.
 - ALL SPRINKLERS LOCATED IN ELECTRICAL, COMMUNICATION, AND MECHANICAL ROOMS SHALL BE HIGH TEMPERATURE SPRINKLERS WITH PROTECTIVE WIRE CAGES. PROVIDE SIDEWALL SPRINKLERS IN ELECTRICAL/COMMUNICATION AREAS WHERE POSSIBLE.
 - PROVIDE SPRINKLER COVERAGE BENEATH THE LOWEST LEVEL OF STAIR TREADS WHERE THE AREAS COULD BE UTILIZED FOR POTENTIAL STORAGE. SPRINKLER PIPING SHALL BE CONCEALED INSIDE WALLS AND UTILIZE SIDEWALL STYLE SPRINKLERS.
 - ALL SPRINKLER HEADS SHALL BE CENTERED IN BOTH DIRECTIONS OF A 2x2' CEILING TILE. REFER TO CEILING GRID DETAIL.
 - EXPOSED PIPING SHALL BE PAINTED TO MATCH ADJACENT SURFACES WITH THE EXCEPTION OF MECHANICAL SPACES. COORDINATE ALL COLORS WITH ARCHITECT.



 **FIRE PROTECTION PLAN**
1/8" = 1'-0"



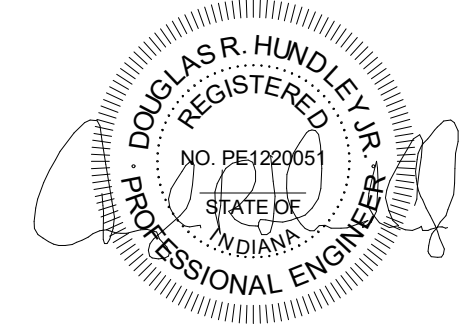
SHEET TITLE
FIRE PROTECTION PLAN

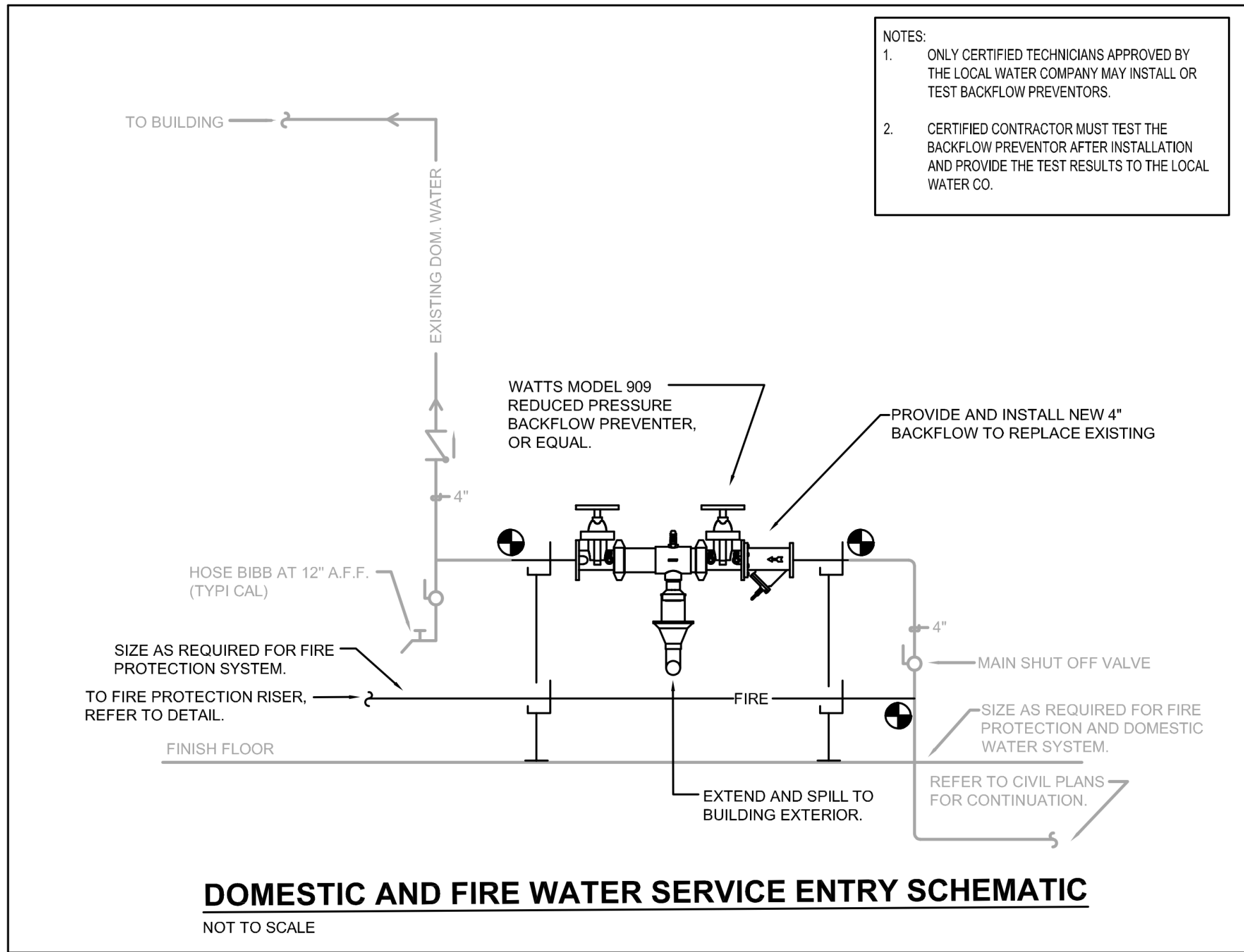
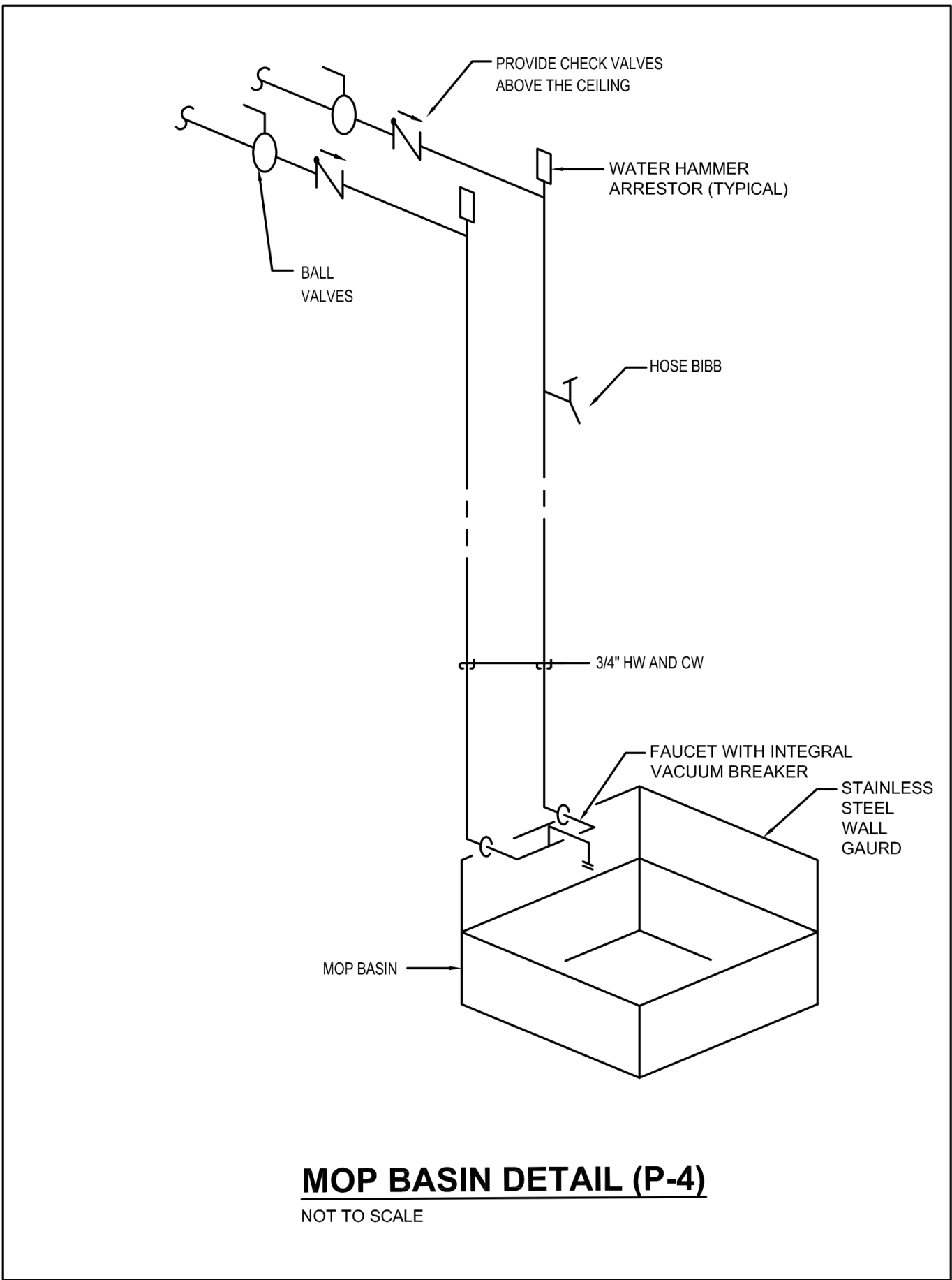
SHEET NUMBER
FP100
25-1218.001

418 E. Carr Street
Milan Community School Corporation

2026 Classroom Addition
Milan Elementary

Milan, Indiana 47031





- NOTES:
- ONLY CERTIFIED TECHNICIANS APPROVED BY THE LOCAL WATER COMPANY MAY INSTALL OR TEST BACKFLOW PREVENTERS.
 - CERTIFIED CONTRACTOR MUST TEST THE BACKFLOW PREVENTER AFTER INSTALLATION AND PROVIDE THE TEST RESULTS TO THE LOCAL WATER CO.

PLUMBING FIXTURE SCHEDULE

DESIGNATOR	FIXTURE	CW	HW	SAN	VENT
P-1	FLUSH VALVE WATER CLOSET, WALL HUNG - PUBLIC - ADA	1 1/4"	---	4"	2"
P-1A	FLUSH VALVE WATER CLOSET, WALL HUNG - PUBLIC - ADA - CHILD	1 1/4"	---	4"	2"
P-2	WALL HUNG LAVATORY - ADA	1/2"	1/2"	2"	1 1/2"
P-3	STAINLESS STEEL ONE COMPARTMENT SINK - DROP IN	1/2"	1/2"	2"	1 1/2"
P-4	24x24 MOP BASIN	3/4"	3/4"	3"	1 1/2"
P-5	ELECTRIC WATER COOLER WITH BOTTLE FILLER	1/2"	1/2"	2"	1 1/2"

NOTES:

- PLUMBING FIXTURES P-1D AND P-1E, PROVIDE SEPARATE LAVATORY AND WATER CLOSET WASTE AND VENT PIPING, PER KY PLUMBING CODE.
- PIPE SIZES ARE AS INDICATED UNLESS OTHERWISE NOTED ON FLOOR PLANS AND RISER DIAGRAMS.
- MINIMUM 2" SANITARY PIPING UNDERGROUND.
- PROVIDE ALL REQUIRED PIPING TO FIXTURES INDICATED ON THE FLOOR PLANS, INDICATED WITH A "P" DESIGNATION. PROVIDE PIPING OF SIZE INDICATED IN THIS SCHEDULE, WHETHER INDICATED OR NOT.
- ALL PLUMBING FIXTURES TO BE LOCATED AS PER THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.
- PIPE ALL EQUIPMENT (SUPPLIED BY OTHERS) AS REQUIRED TO OBTAIN A FULL AND OPERATIONAL SYSTEM. PROVIDE BACKFLOW PROTECTION AS/IF REQUIRED BY THE DETAILS AND BY THE INDIANA PLUMBING CODE. ALL EQUIPMENT SHALL BE CONNECTED PER THE MANUFACTURER'S REQUIREMENTS. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL ANY DRAIN PIPING CONNECTIONS AND SPILL INDIRECTLY TO EITHER AN OPEN RECEPTACLE OR FLOOR DRAIN. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF ALL EQUIPMENT.

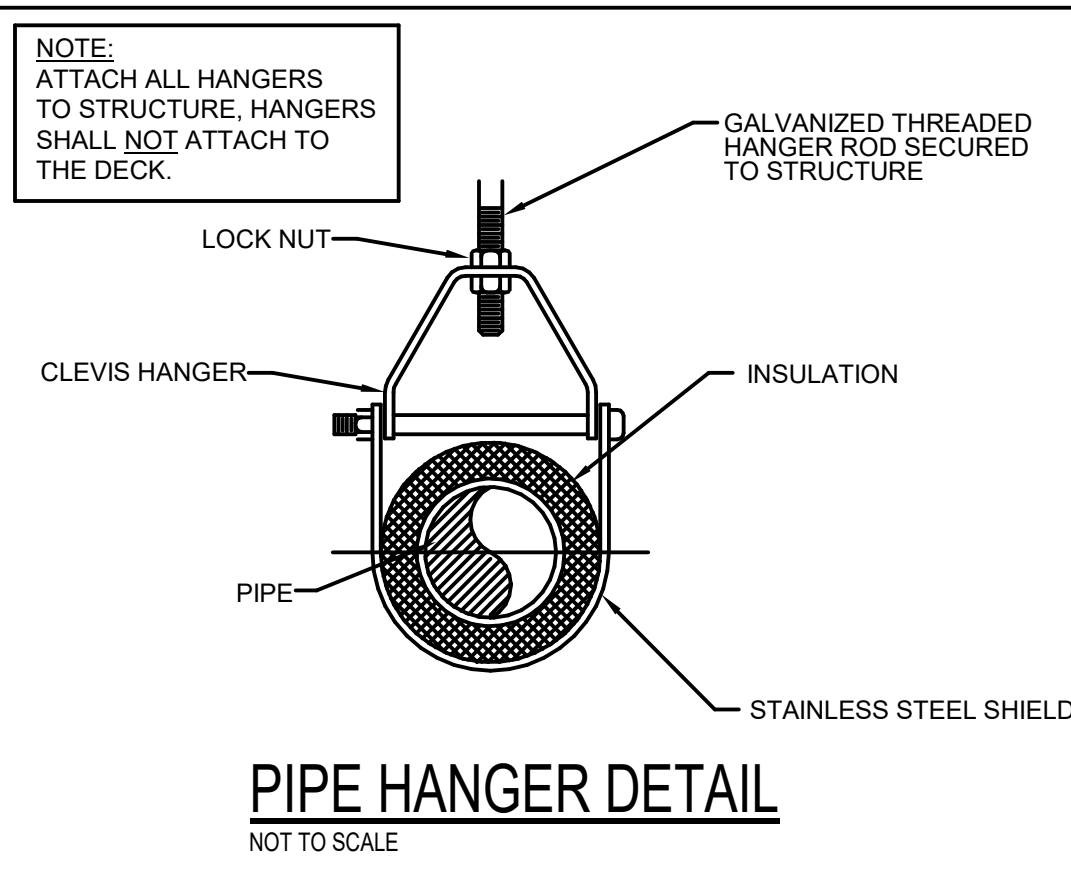
PLUMBING DESIGN PLAN NOTES

- FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.
- LICENSEE'S PLUMBING CONTRACTOR IS RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO FIELD VERIFY EXISTING PIPING ROUTINGS AND REVEAL FULL SCOPE OF WORK.
- ALL PLUMBING LINES TO BE ROUTED SUCH THAT THEY ARE NOT VISIBLE TO PATIENTS.
- REFER TO MANUFACTURER SPECIFICATIONS FOR LOCATION OF CONNECTIONS UNLESS OTHERWISE NOTED.
- COORDINATE WITH LICENSEE'S ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.
- DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED.
- COLD WATER SUPPLY LINES PENETRATING CONCRETE SLABS ARE TO BE COVERED WITH 1/2" (12MM) THICK SELF-SEALING, SECTIONAL CLOSED-CELL FOAM INSULATION. REFER TO SPECIFICATIONS FOR HOT WATER SUPPLY LINE INSULATION REQUIREMENTS.
- REFER TO OUTLINE SPECIFICATION SHEETS FOR PLUMBING SPECIFICATION SECTIONS.

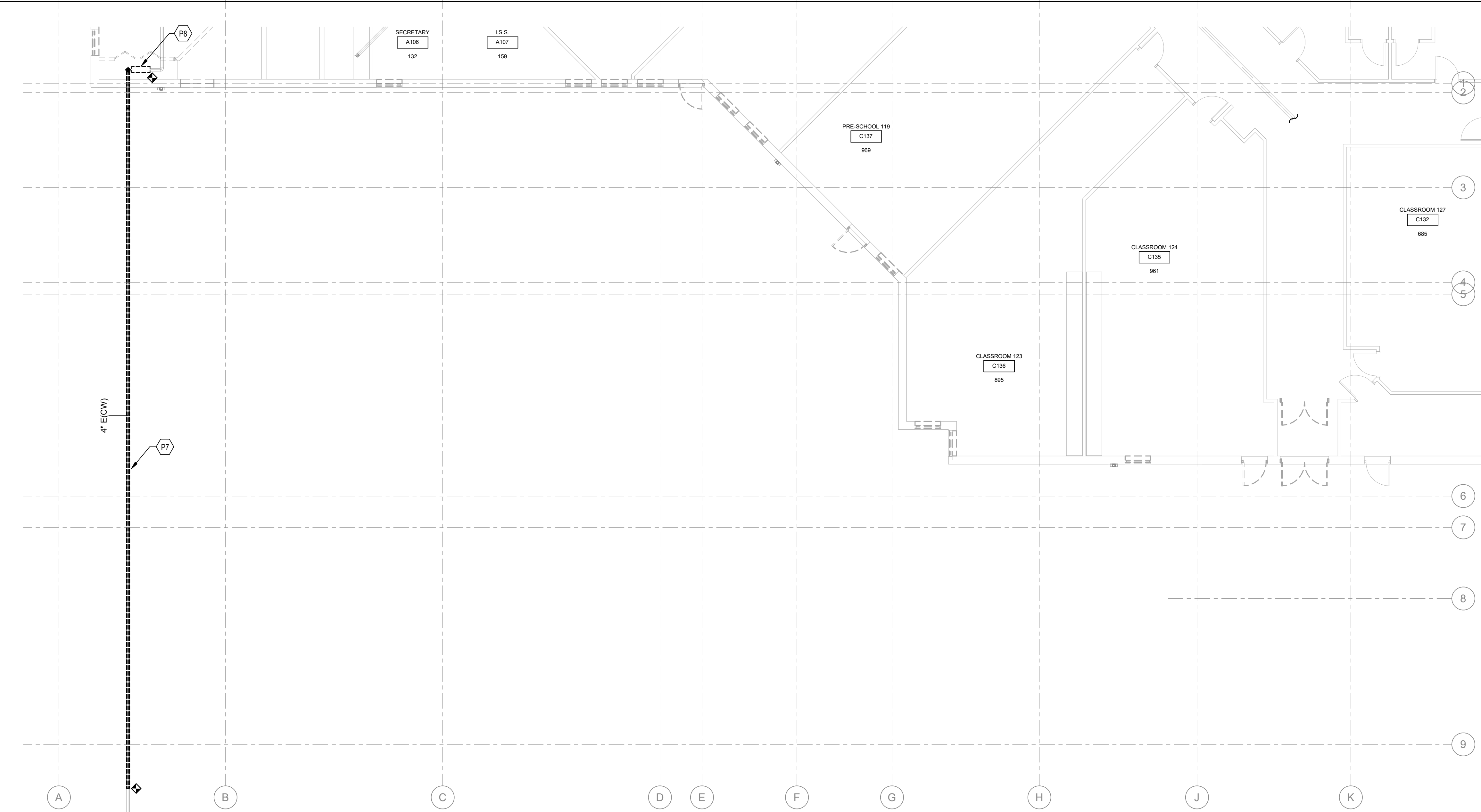
PLUMBING LEGEND

ABOVE FINISHED FLOOR	AFF
BELOW FINISHED FLOOR	BFF
CLEANOUT	CO
COLD WATER	CW
DOMESTIC WATER CIRCULATING PUMP	DP
EXPANSION TANK	ET
EXTERIOR CLEANOUT	ECO
FLOOR DRAIN	FD
FREEZE PROOF WALL HYDRANT	FPPH
FREEZE PROOF ROOF HYDRANT	FPRH
HOSE BIBB	HB
HOT WATER	HW
INVERT ELEVATION	IE
NOT TO SCALE	NTS
ROOF DRAIN	RD
SUMP PUMP	SP
TRAP PRIMER	TP
TRENCH DRAIN	TD
TYPICAL	TYP
VENT THROUGH ROOF	VTR
WATER HAMMER ARRESTOR	WHA
WATER HEATER	WH

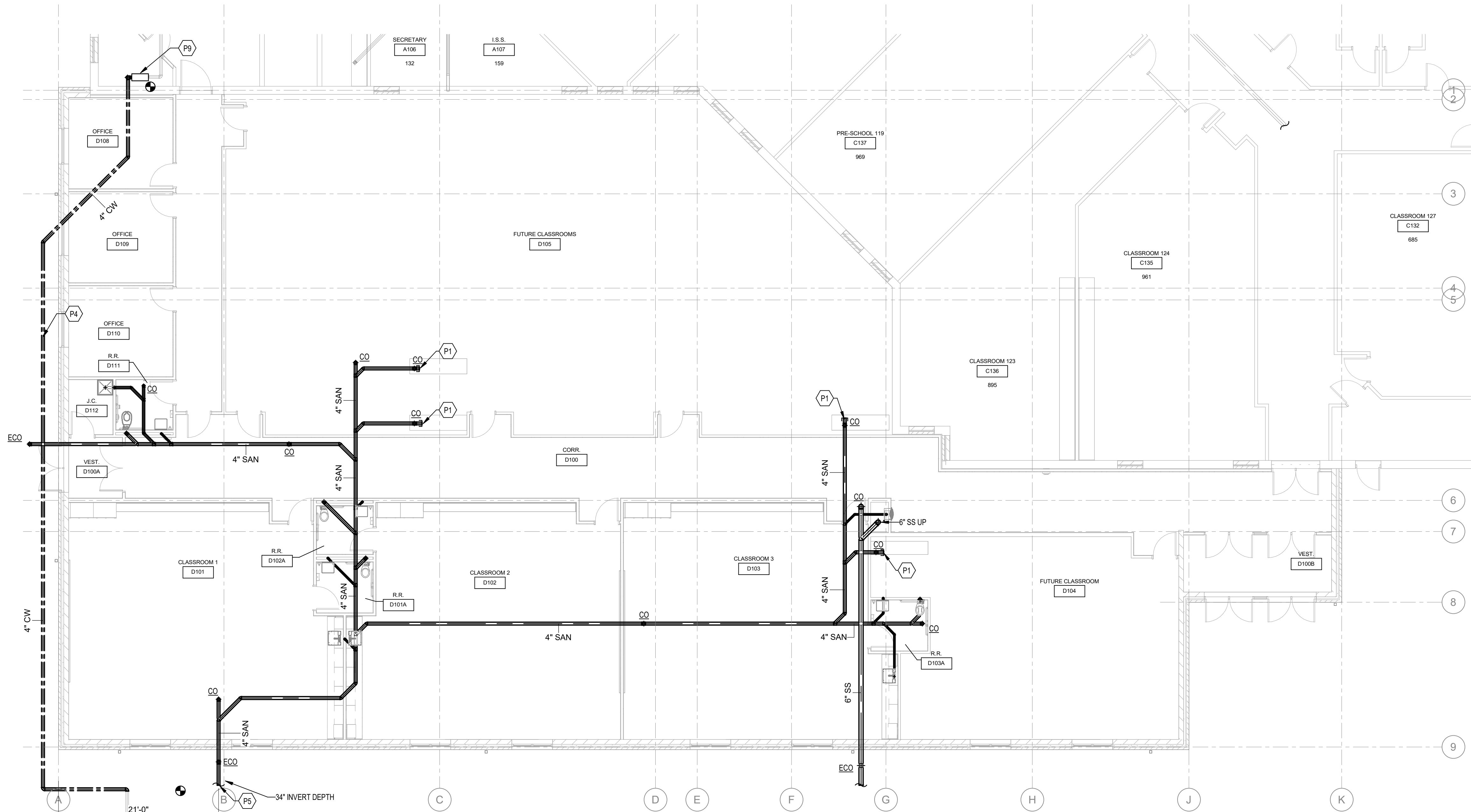
EXISTING PIPING	—E(SYSTEM)—
DEMOLISHED PIPING	--E(SYSTEM)--
SANITARY PIPING	—SAN—
STORM PIPING	—SS—
OVERFLOW STORM PIPING	—OSS—
GREASE WASTE PIPING	—GL—
SANITARY VENT PIPING	—V—
DOMESTIC COLD WATER PIPING	— -- --
DOMESTIC HOT WATER PIPING (120° F)	— -- --
DOMESTIC HOT WATER RETURN PIPING (120° F)	— -- --
RELIEF VALVE DISCHARGE	—RVD—
PRESSURE RELIEF VALVE	—PRV—
UNION	—U—
DIAL THERMOMETER	—D—
PRESSURE GAUGE	—P—
GATE VALVE	—G—
BALANCING VALVE	—B—
SOLENOID VALVE	—S—
GAS SHUT-OFF VALVE	—G—
CHECK VALVE	—C—
DOUBLE CHECK VALVE ASSEMBLY	—DCV—
BALL VALVE	—B—



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UNDERSLAB PLUMBING PLAN - DEMOLITION
1/8" = 1'-0"

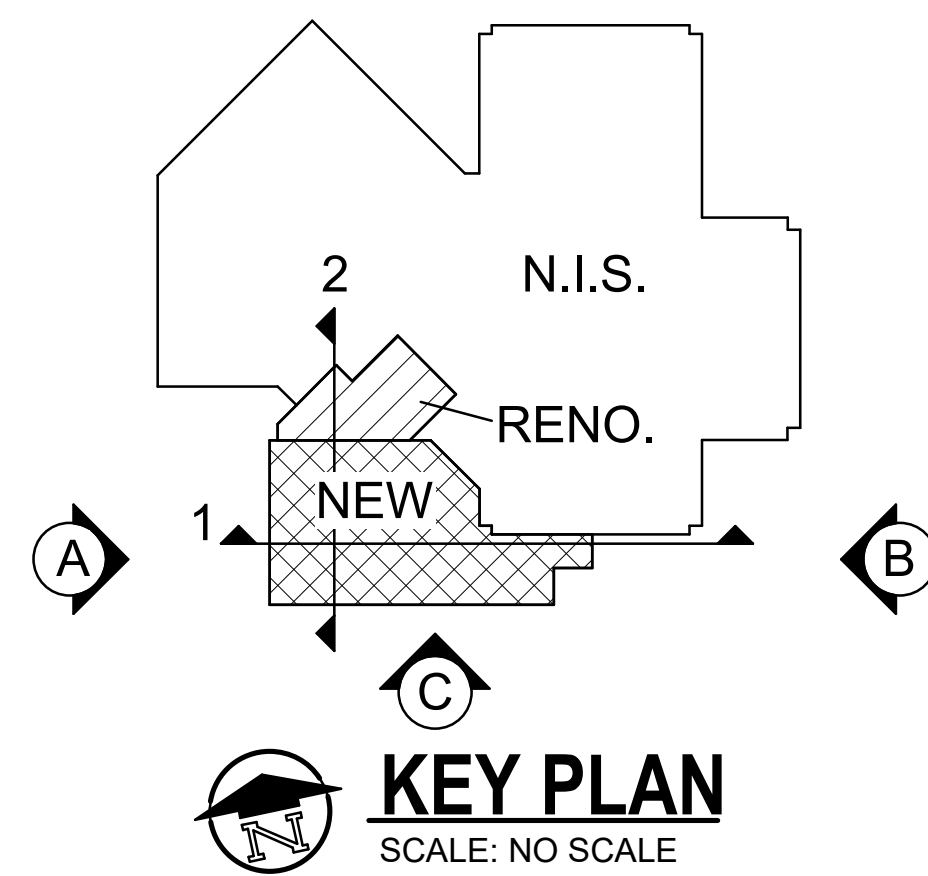


UNDERSLAB PLUMBING PLAN
1/8" = 1'-0"

KEYNOTES

- P1 CAP PIPE FOR FUTURE CONNECTION. PROVIDE CLEANOUT AT THIS LOCATION.
- P4 EXISTING 4" DOMESTIC WATER SERVICE TO SITE. EXISTING SERVICE TO REMAIN AND BE RE-USED.
- P5 NEW 4" SANITARY TO SITE. SANITARY LINE TO LEAVE BUILDING 21'0" FROM CORNER OF BUILDING. NEW SANITARY SERVICE TO CONNECT TO SANITARY MAIN ON SITE.
- P7 DEMOLISH EXISTING 4" CW LINE AS SHOWN. CAP PIPE AT DISCONNECTION POINTS TO PREP FOR RECONNECTION. REFER TO NEW WORK PLAN FOR MORE INFORMATION.
- P8 DEMOLISH EXISTING BACKFLOW PREVENTER. CAP EXISTING PIPING FOR RECONNECTION TO NEW BACKFLOW PREVENTER.
- P9 INSTALL NEW BACKFLOW PREVENTER.

MILAN ELEMENTARY SCHOOL



SHEET TITLE
UNDERSLAB PLUMBING PLAN

ISSUED FOR

DATE

DATE
APRIL 30, 2025

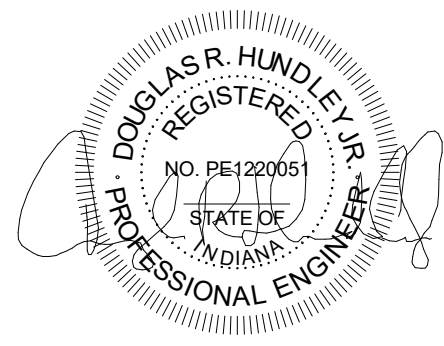
SHEET NUMBER
P100
25-1218.001

2026 Classroom Addition
Milan Elementary

418 E. Carr Street

Milan Community School Corporation

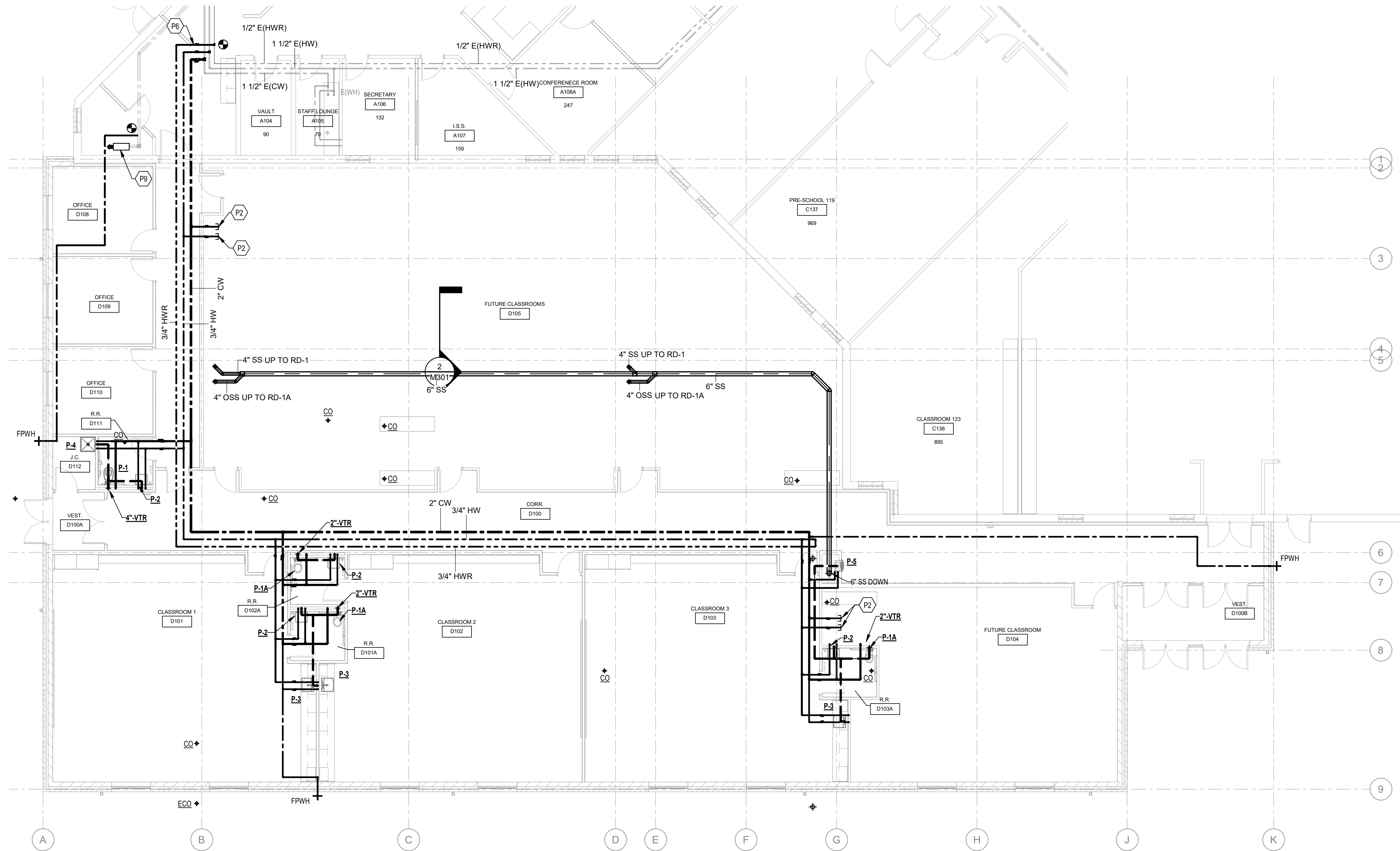
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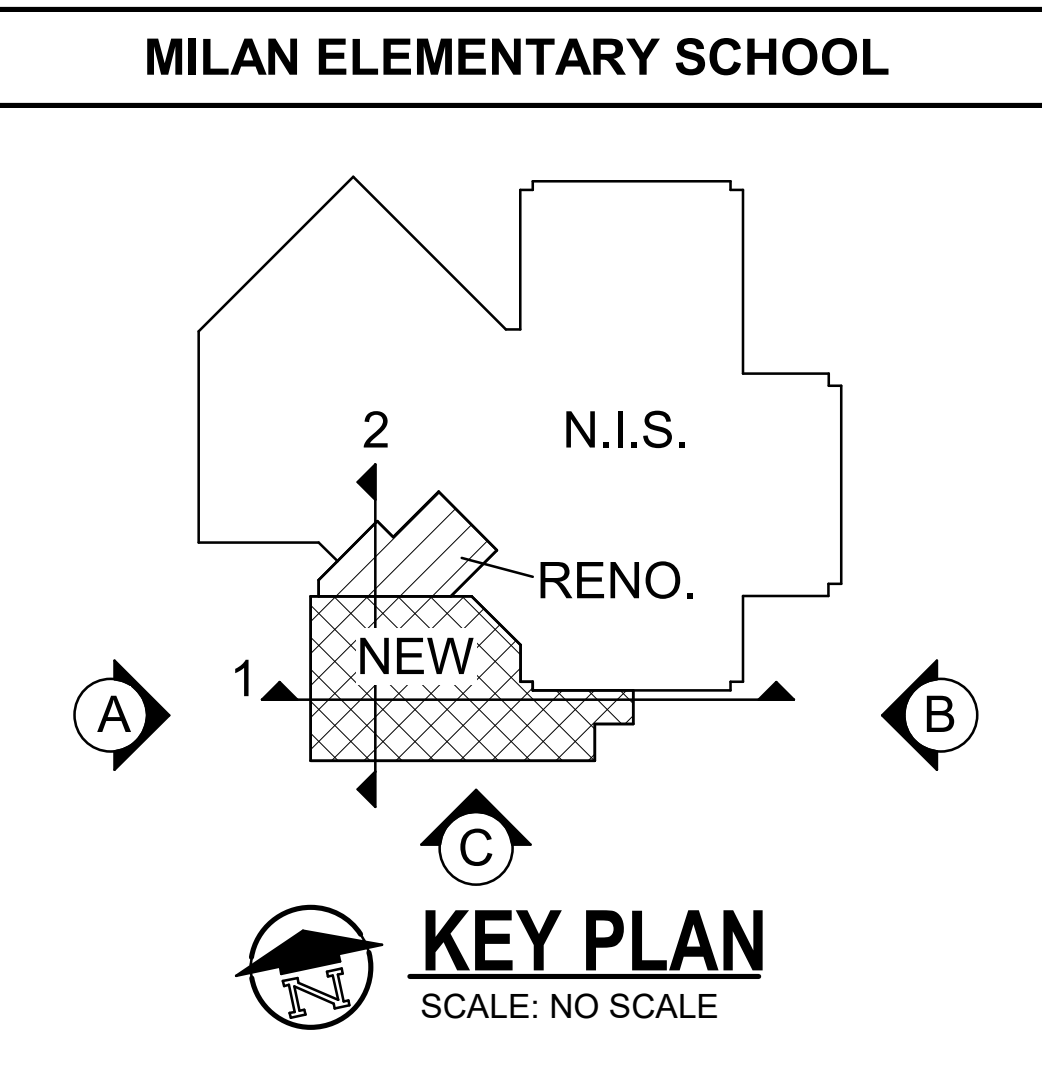
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 PLUMBING PLAN
1/8" = 1'-0"

KEYNOTES

- P2 CAP PIPE FOR FUTURE CONNECTION. PROVIDE SHUTOFF VALVE AS SHOWN.
- P6 PROVIDE BALANCING VALVE ON HW RETURN AND BALANCE SYSTEM TO MAINTAIN FLOW TO ALL FIXTURES.
- P9 INSTALL NEW BACKFLOW PREVENTER.



SHEET TITLE
PLUMBING PLAN

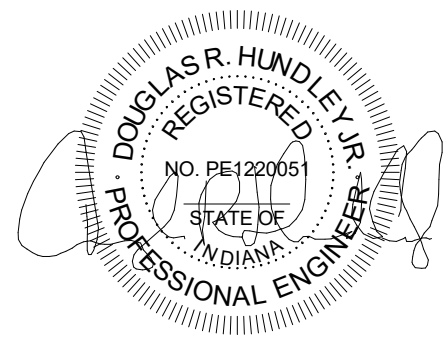
ISSUED FOR

DATE

DATE
APRIL 30, 2025

SHEET NUMBER
P200
25-1218.001

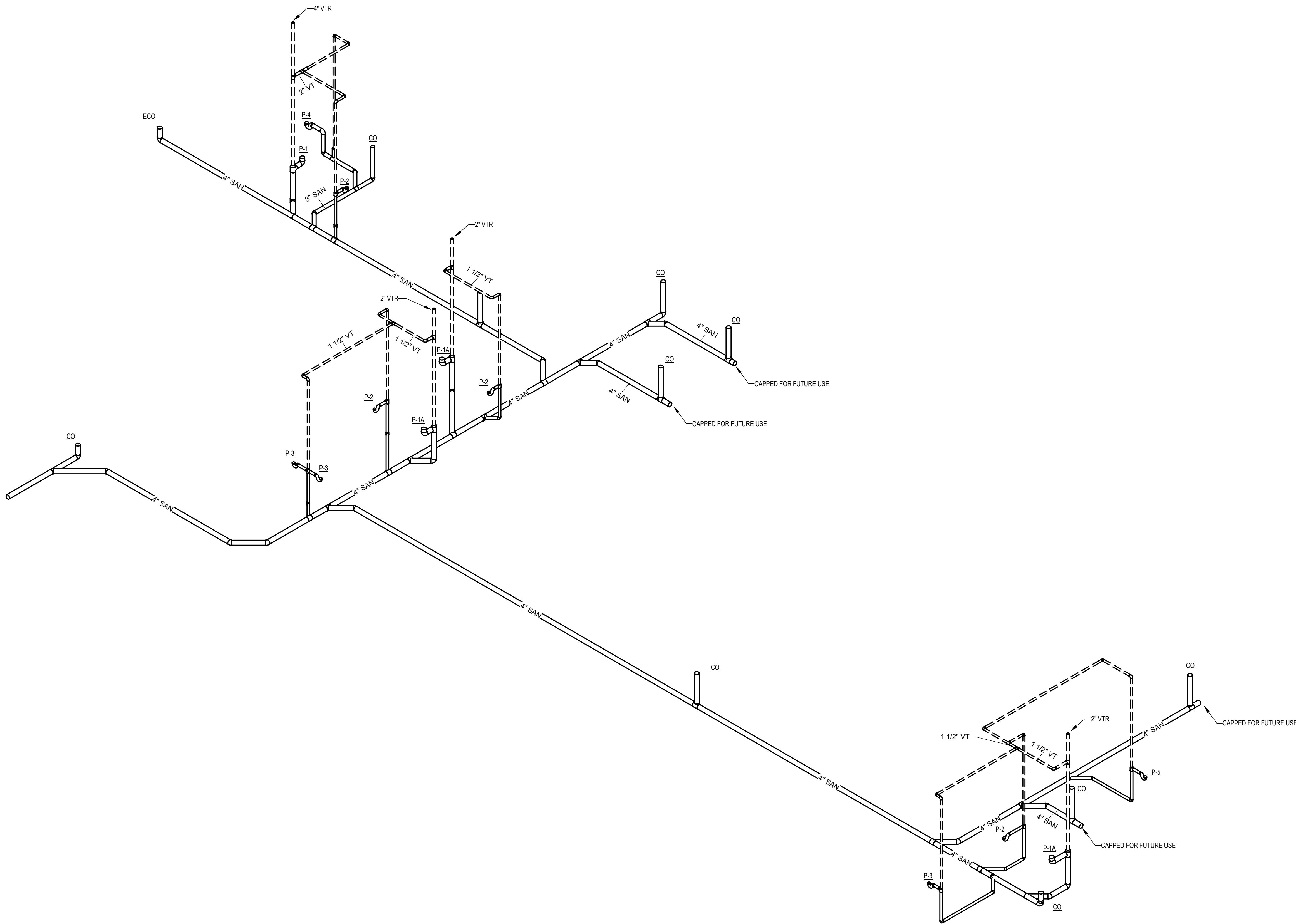
2026 Classroom Addition
Milan Elementary
418 E. Carr Street
Milan, Indiana 47031
Milan Community School Corporation



1

PLUMBING RISER

SCALE:



SHEET TITLE
PLUMBING RISERS

SHEET NUMBER
P300
25-1218.001

DATE
APRIL 30, 2025

ISSUED FOR

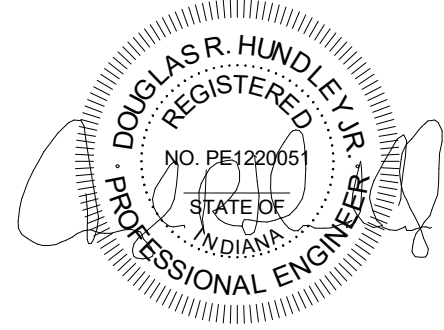
DATE

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Milan Elementary

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- GENERAL NOTES - MECHANICAL**
- A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR ITS OWNERS' STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, STATE OF INDIANA, ETC.)
- H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS LINES, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERNAL LIFE, SAFETY MEASURES.
- M. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- N. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- O. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- P. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- Q. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- R. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- S. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- T. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL IRONGRIP 801 OR EQUAL, WATER BASED SEALANT.
- U. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- V. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- W. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- X. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- Y. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- Z. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- AA. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- AB. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- AC. PIPING SHALL NOT BE LOCATED UNDER A FOOTER OR IN THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- AD. THE DOCUMENTS COMPLY WITH 2012 IMC, 2012 IBC, AND 2018 IECC.
- AE. THE DOCUMENTS COMPLY WITH ASHRAE 90.1-2007.
- AF. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-IDENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
KW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MSCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET OR FOOT
SQ IN	SQUARE INCH OR INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

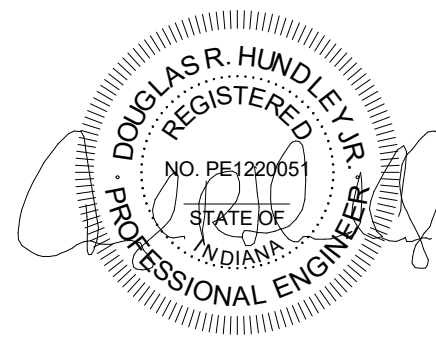
HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER, LOUVER)
	RECTANGULAR DUCT
	ROUND/SPIRAL DUCT
	FLAT OVAL DUCT
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	OUTSIDE AIR DUCT
	TRANSFER AIR DUCT
	COMBUSTION AIR EXHAUST DUCT
	COMBUSTION AIR INTAKE DUCT
	SA AIR DUCT TURNING UP
	SA AIR DUCT TURNING DOWN
	RA AIR DUCT TURNING UP
	RA AIR DUCT TURNING DOWN
	EA AIR DUCT TURNING UP
	EA AIR DUCT TURNING DOWN
	EXISTING DUCT - (XXX) DENOTES SYSTEM
	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE ELBOW
	THERMOSTAT
	AVERAGING THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	TEMPERATURE & CARBON DIOXIDE SENSOR
	MANUAL BALANCING/VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE & SMOKE DAMPER

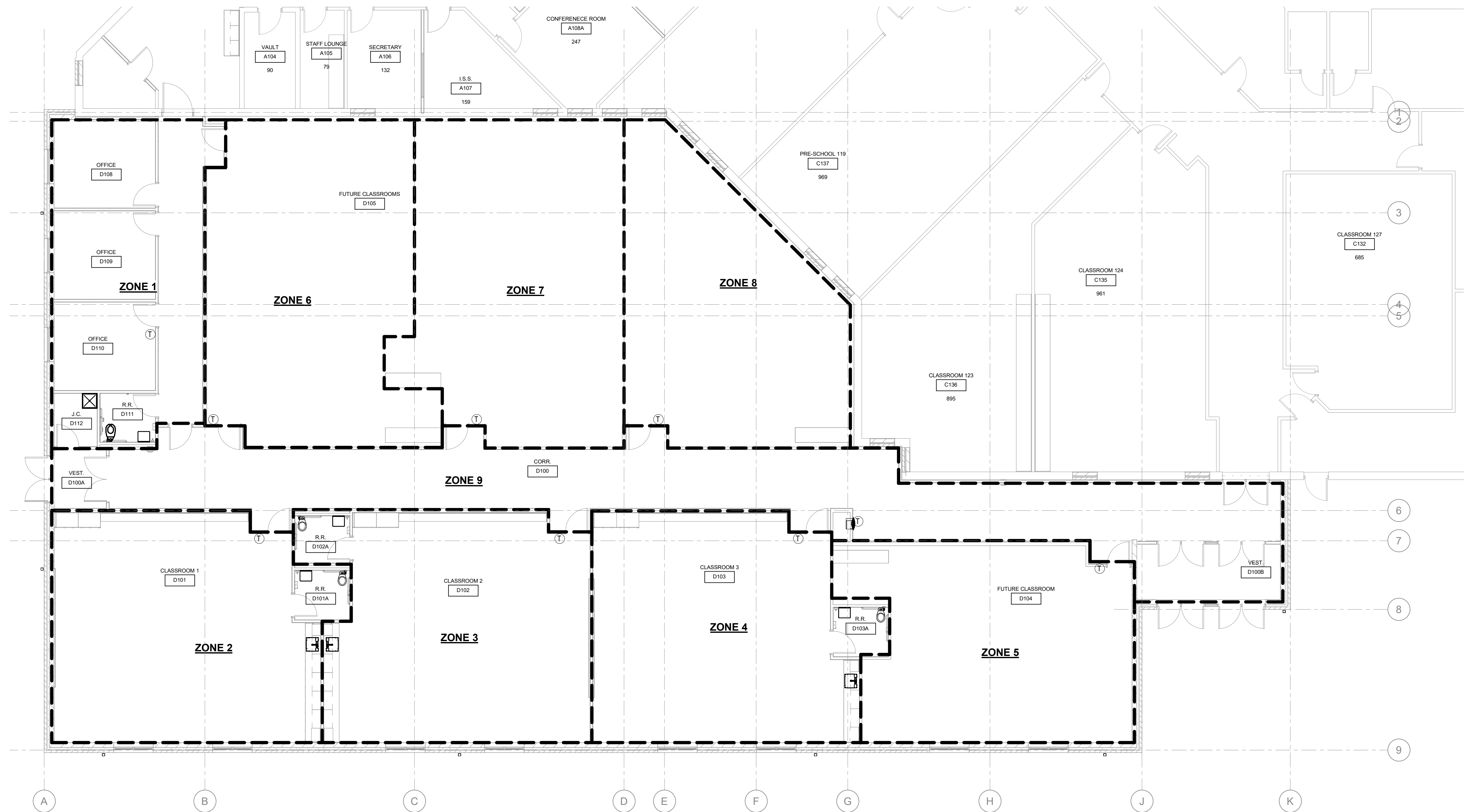
MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE, CONNECTION ON TOP
	PIPE TEE, CONNECTION ON BOTTOM
	PIPE CAP
	BOILER FEEDWATER
	COMBUSTION AIR INTAKE/EXHAUST
	CHILLED BEAM SUPPLY/RETURN
	CONDENSATE DRAIN
	CHILLED WATER SUPPLY/RETURN
	CLEAN STEAM PIPING
	CONDENSER WATER SUPPLY/RETURN
	DUAL TEMP. WATER SUPPLY/RETURN
	GEO THERMAL WATER SUPPLY/RETURN
	HIGH PRESSURE STEAM CONDENSATE
	HIGH PRESSURE STEAM; (H) DENOTES PRESSURE
	HEAT PUMP WATER SUPPLY/RETURN
	HEAT RECOVERY SUPPLY/RETURN PIPING
	HEATING WATER SUPPLY/RETURN
	LOW PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM; (H) DENOTES PRESSURE
	MEDIUM PRESSURE STEAM RETURN
	MEDIUM PRESSURE STEAM; (H) DENOTES PRESSURE
	STEAM CONDENSATE PUMPED DISCHARGE
	STEAM VENT PIPING
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM
	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

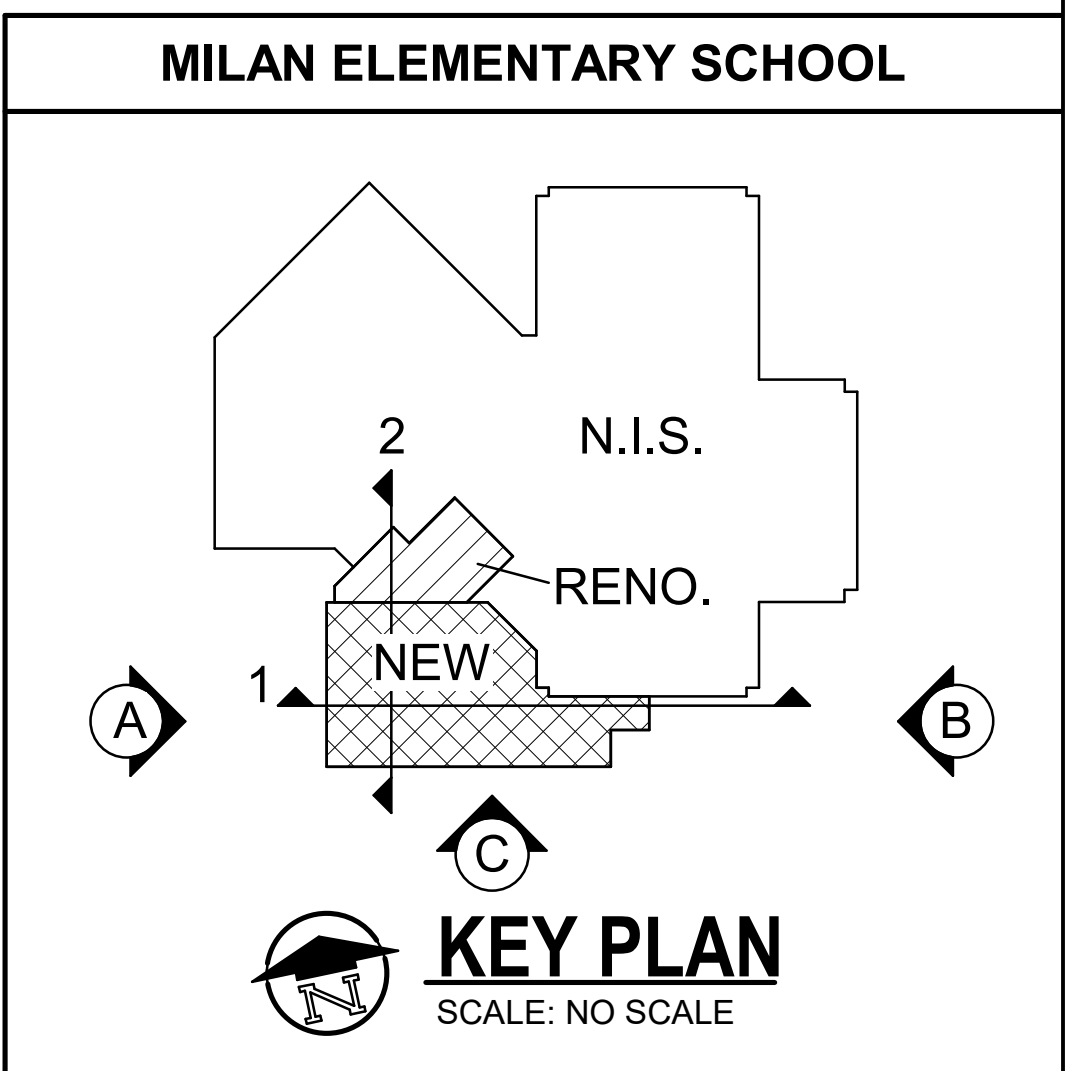
NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT



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 **M100 - MECHANICAL ZONING PLAN**
1/8" = 1'-0"



SHEET TITLE
MECHANICAL ZONING PLAN

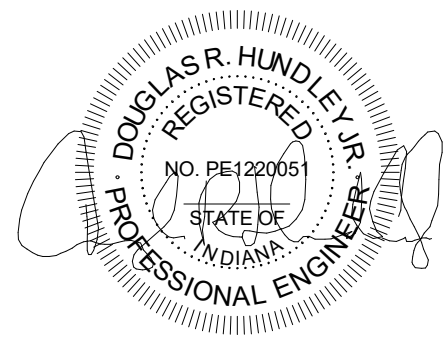
SHEET NUMBER
M101
25-1218.001

DATE
APRIL 30, 2025

ISSUED FOR
DATE

2026 Classroom Addition
Milan Elementary

418 E. Carr Street
Milan, Indiana 47031
Milan Community School Corporation



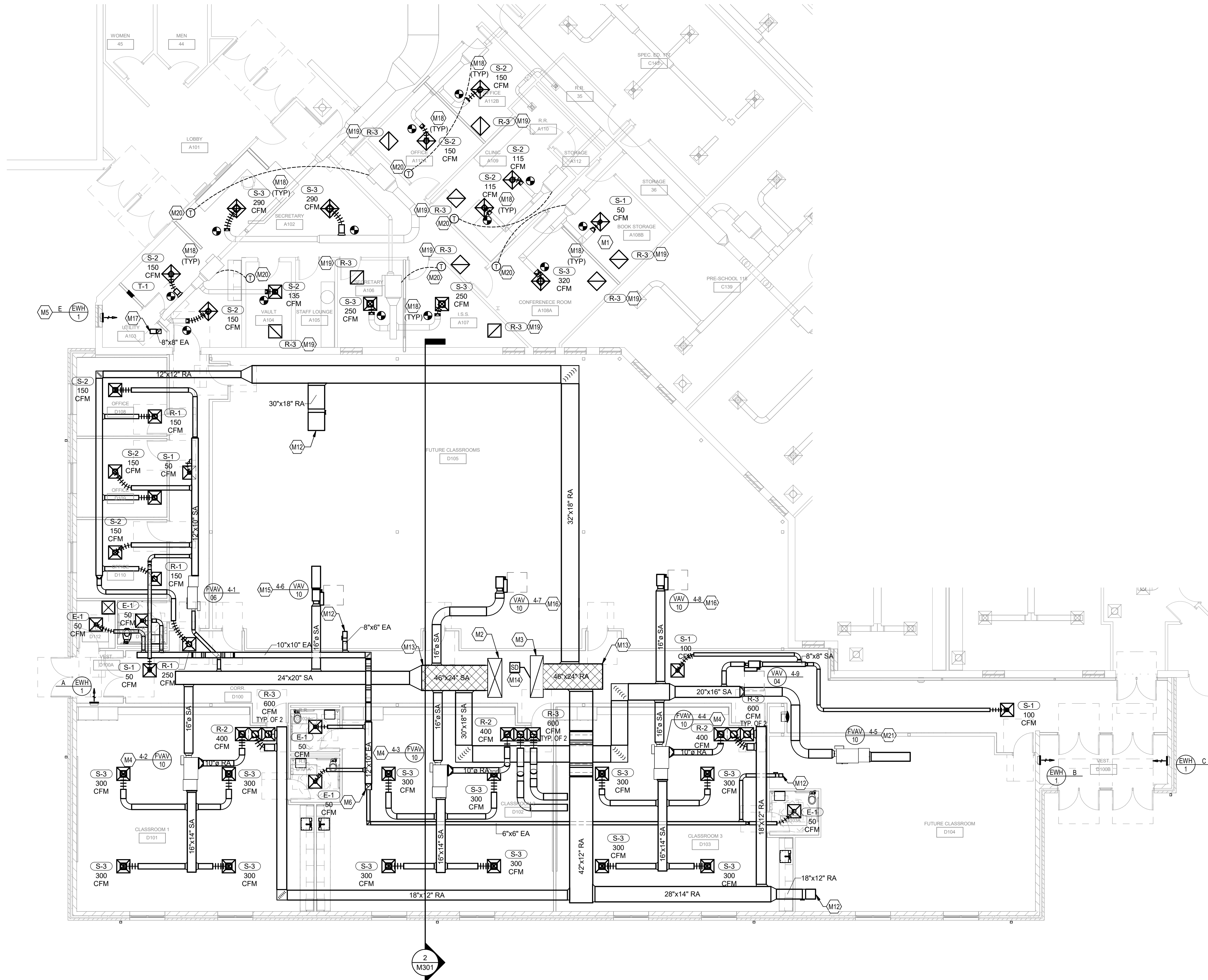
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Milan Community School Corporation

DATE
APRIL 30, 2025

SHEET TITLE
MECHANICAL FLOOR PLAN -
DEMOLITION

D1	RELOCATE EXISTING FVAV BOX AS REQUIRED TO AVOID NEW WALL. BOX TO MAINTAIN REQUIRED CLEARANCES FOR ACCESS AND MAINTENANCE.
D2	REMOVE EXISTING DIFFUSER AND GRILLES AS INDICATED. REFER TO NEW WORK PLAN FOR NEW DUCT CONNECTIONS. TYPICAL.
M1	EXISTING SUPPLY DIFFUSER TO BE REMOVED FROM CEILING GRID. CLEANED AND RE-USED. COORDINATE LOCATION WITH CEILING GRID. ANY DUCTWORK, FLEX, OR GRILLES THAT ARE DAMAGED DURING CONSTRUCTION TO BE REPLACED AND RE-INSTALLED. ANY EXISTING DIFFUSER, DUCTWORK, OR OTHER ASSOCIATED EQUIPMENT DEEMED AS UNUSABLE TO BE REPLACED WITHIN THE NEW ROOMS.





Mechanical First Floor Plan
1/8" = 1'-0"

KEYNOTES

- M1 EXISTING SUPPLY DIFFUSER TO BE REMOVED FROM CEILING GRID, CLEANED AND RE-USED. COORDINATE LOCATION WITH CEILING GRID. ANY DUCTWORK, FLEX, OR GRILLES THAT ARE DAMAGED DURING CONSTRUCTION TO BE REPLACED AND RE-INSTALLED. ANY EXISTING DIFFUSER, DUCTWORK, OR OTHER ASSOCIATED EQUIPMENT DEEMED AS UNUSABLE TO BE REPLACED WITHIN THE NEW ROOMS.
- M2 71"x28" SA DUCT UP TO RTU-4.
- M3 76"x23" RA DUCT UP TO RTU-4.
- M4 NEW FAN POWERED VAV BOX. REFER TO FVAV DETAIL ON M401 FOR MORE INFORMATION.
- M5 NEW RECESSED ELECTRIC WALL HEATER. REFER TO SCHEDULE FOR MORE INFORMATION.
- M6 12"x12" EA DUCT UP TO EF-1 ON ROOF.
- M12 TERMINATE DUCT FOR FUTURE CONNECTION. PROVIDE MANUAL DAMPER AS SHOWN.
- M13 DUCT DROPS FROM ROOF AND ALL HATCHED DUCTWORK TO BE WRAPPED IN SOUND ABSORBING DUCTWRAP. REFER TO MECHANICAL INSULATION SPEC FOR MORE INFORMATION.
- M14 DUCT MOUNTED SMOKE DETECTOR. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- M15 NEW VAV BOX. BOX TO PROVIDE HEATING AND COOLING FOR SHELL SPACE. BOX TO BE RE-UTILIZED FOR CLASSROOM ONCE SPACE IS FITTED OUT. REFER TO VAV DETAIL ON M401 FOR MORE INFORMATION.
- M16 NEW VAV BOX. BOX TO BE PROVIDED UNDER ALTERNATE 1. DAMPER TO BE 100% CLOSED AND COIL TO BE OFF UNTIL SHELL SPACE IS FITTED OUT. REFER TO VAV DETAIL ON M401 FOR MORE INFORMATION.
- M17 8x8 EA DUCT DOWN FROM EF-2 ON ROOF. PROVIDE 12"x12" BIRDSCREEN AT DUCT TERMINATION. BALANCE FAN TO 75 CFM.
- M18 CONNECT EXISTING DUCTWORK TO NEW FLEX DUCT AND DIFFUSERS AS INDICATED. BALANCE EACH DIFFUSER TO CFM INDICATED. TYPICAL.
- M19 INSTALL NEW RETURN EGGRATE GRILLE AS INDICATED.
- M20 RELOCATE EXISTING THERMOSTAT CONNECTED TO EXISTING FVAV TO POINT INDICATED. TOC TO PROVIDE ALL NEW CONTROLS WIRING AS REQUIRED TO RELOCATE THERMOSTAT.
- M21 NEW FAN POWERED VAV BOX. BOX TO PROVIDE HEATING AND COOLING FOR SHELL SPACE. BOX TO BE RE-UTILIZED FOR CLASSROOM ONCE SPACE IS FITTED OUT. REFER TO FVAV DETAIL ON M401 FOR MORE INFORMATION.

SHEET TITLE
MECHANICAL FLOOR PLAN

SHEET NUMBER
M202
25-1218:001

418 E. Carr Street

2026 Classroom Addition
Milan Elementary

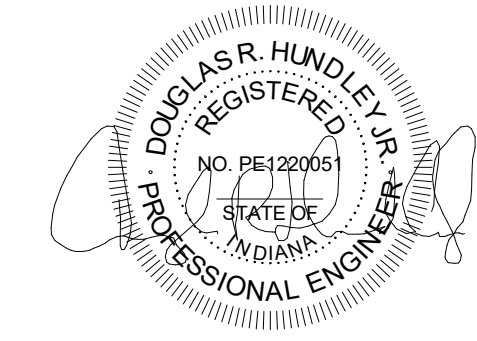
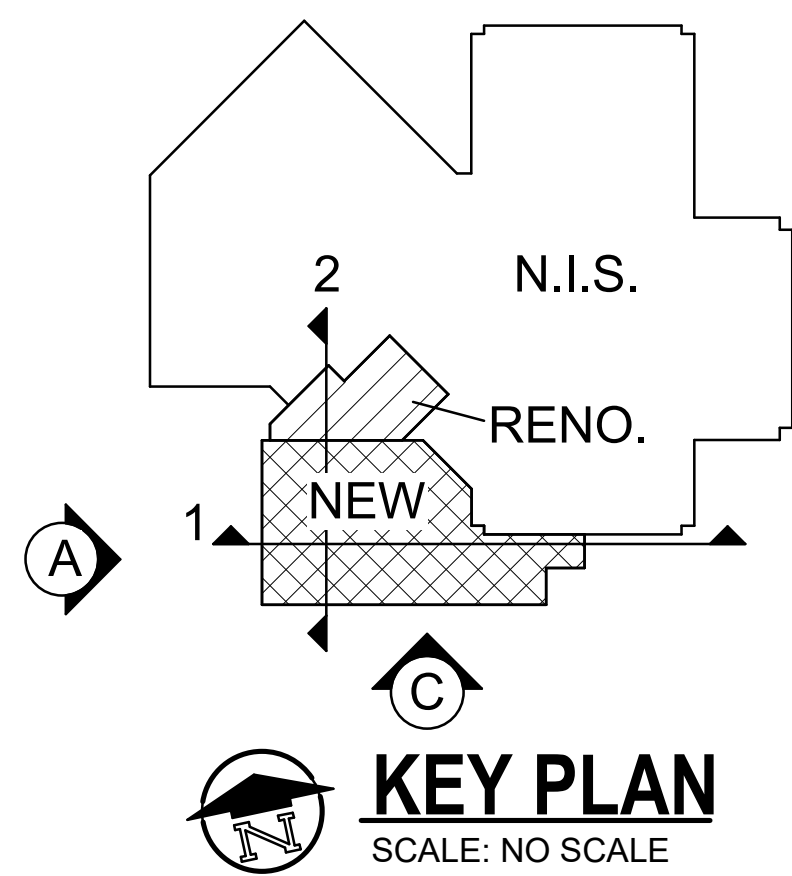
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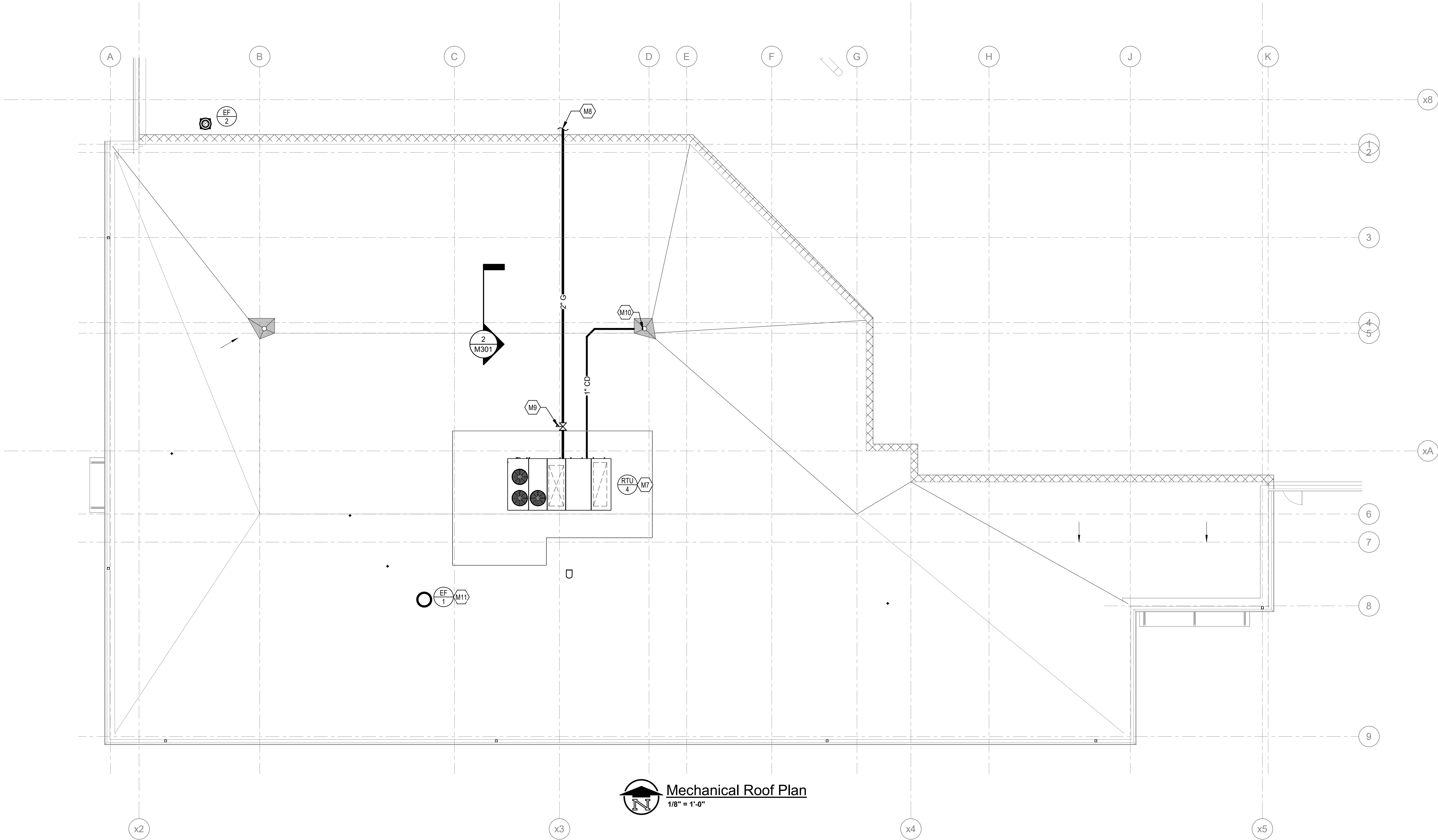
DATE
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MILAN ELEMENTARY SCHOOL

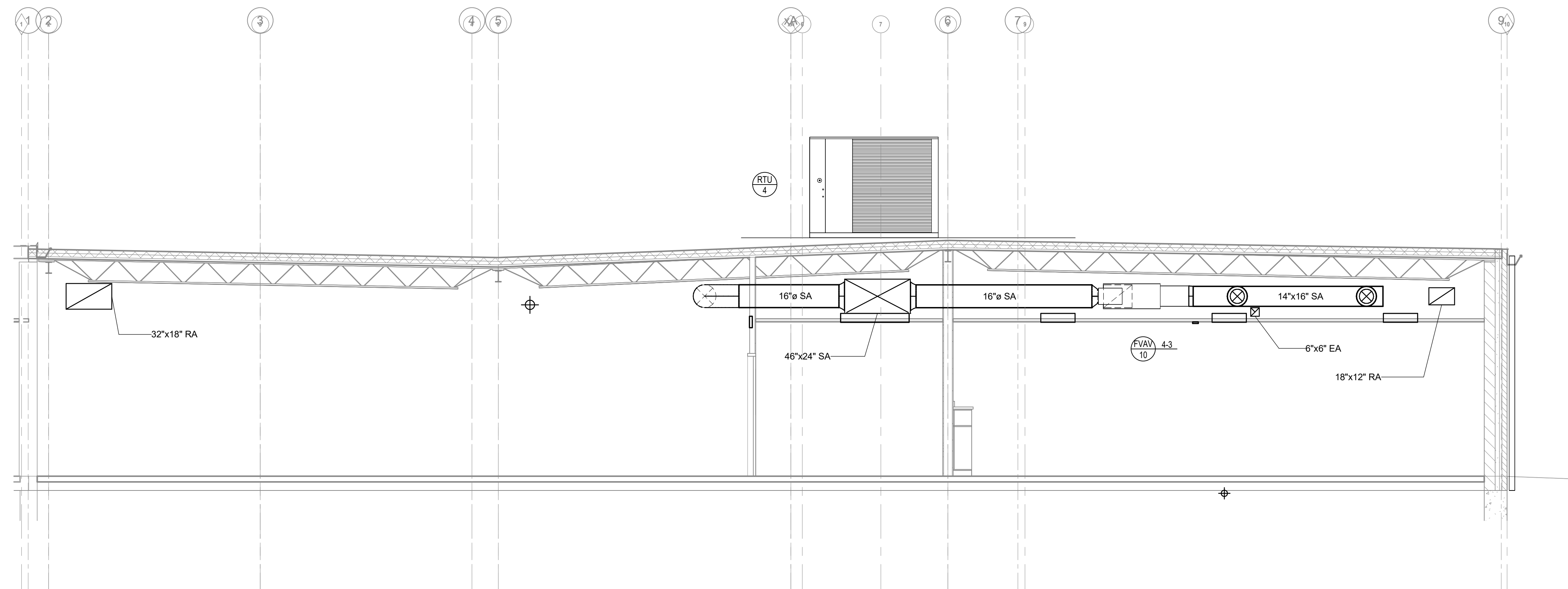


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Mechanical Roof Plan
1/8" = 1'-0"

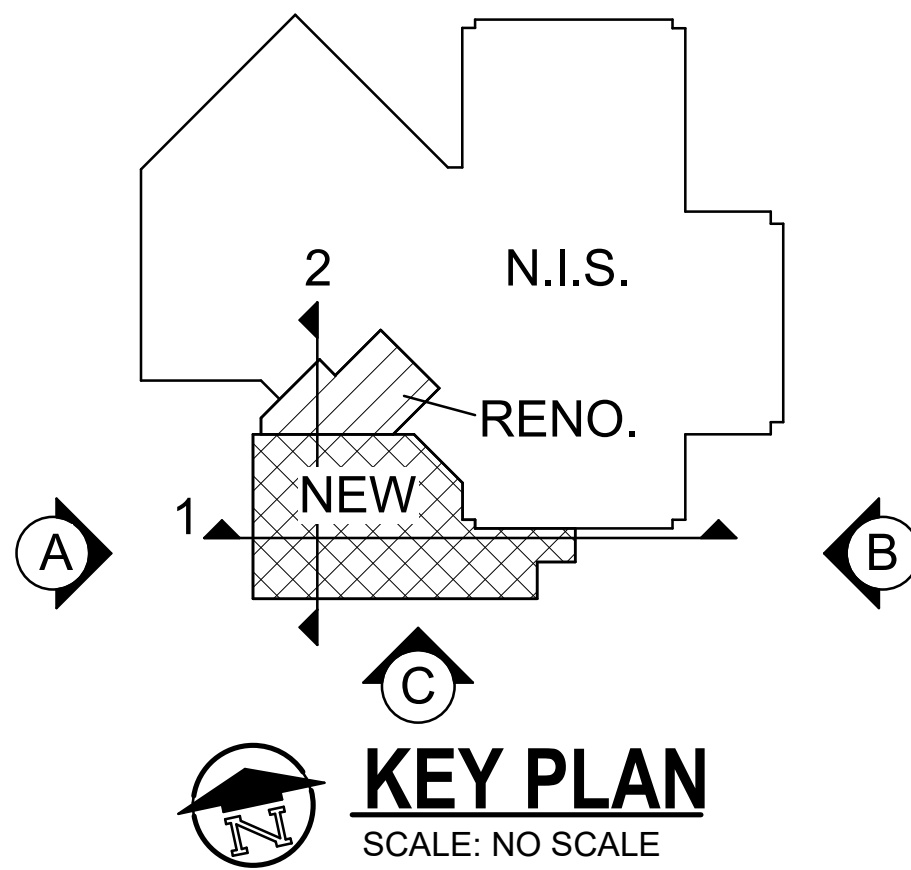


MECHANICAL BUILDING SECTION
SCALE: 1/4" = 1'-0"

KEYNOTES

- M7 NEW PACKAGED RTU. MOUNT UNIT ON ROOF CURB. REFER TO M401 FOR MORE INFORMATION.
- M8 TIE NEW 2" GAS LINE TO THE EXISTING 2" GAS LINE ACROSS ROOF. PROVIDE ROOF SUPPORTS TO SUPPORT NEW GAS LINE EVERY 8' O.C.
- M9 PROVIDE PRESSURE REDUCING VALVE ON GAS LINE. OUTLET OF PRV TO BE SET TO 0.5 PSI.
- M10 SPILL 1" CONDENSATE LINE TO ROOF DRAIN.
- M11 NEW ROOF MOUNTED EXHAUST FAN. MOUNT FAN ON ROOF CURB. REFER TO M401 FOR MORE INFORMATION.

MILAN ELEMENTARY SCHOOL



KEY PLAN
SCALE: NO SCALE

SHEET TITLE
MECHANICAL ROOF PLAN

2026 Classroom Addition
Milan Elementary

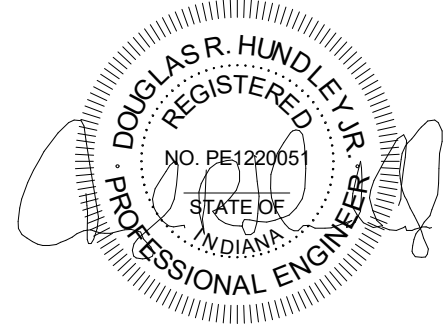
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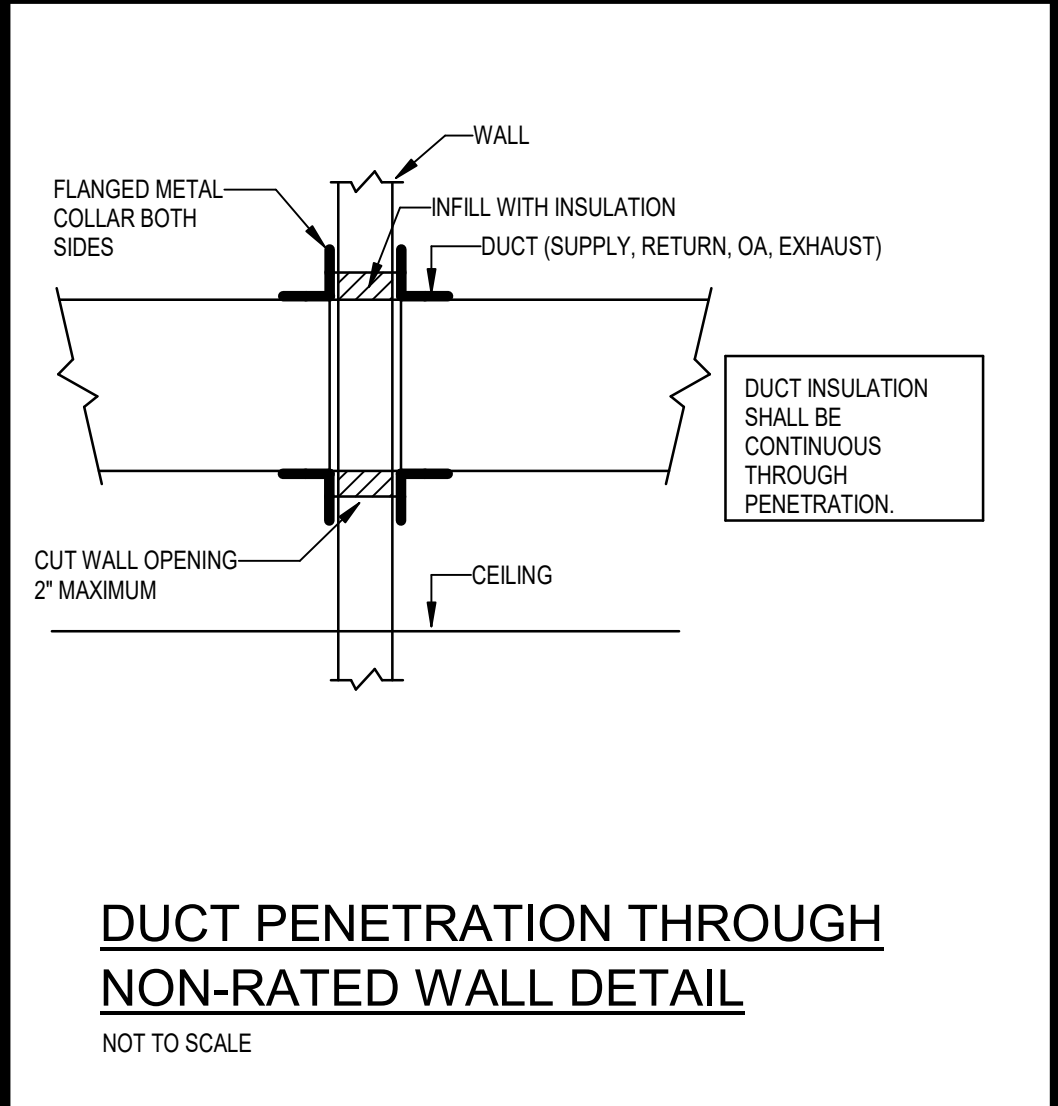
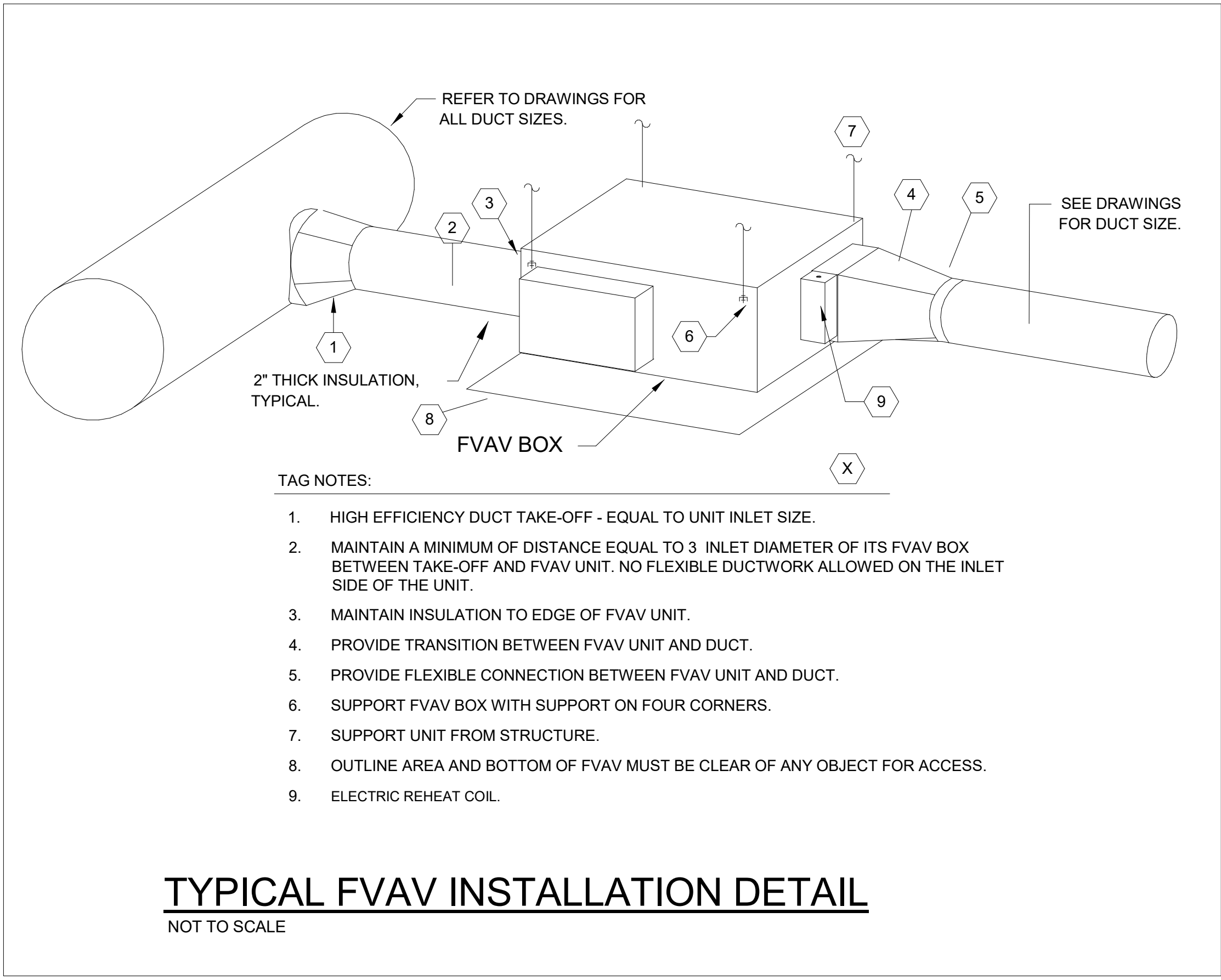
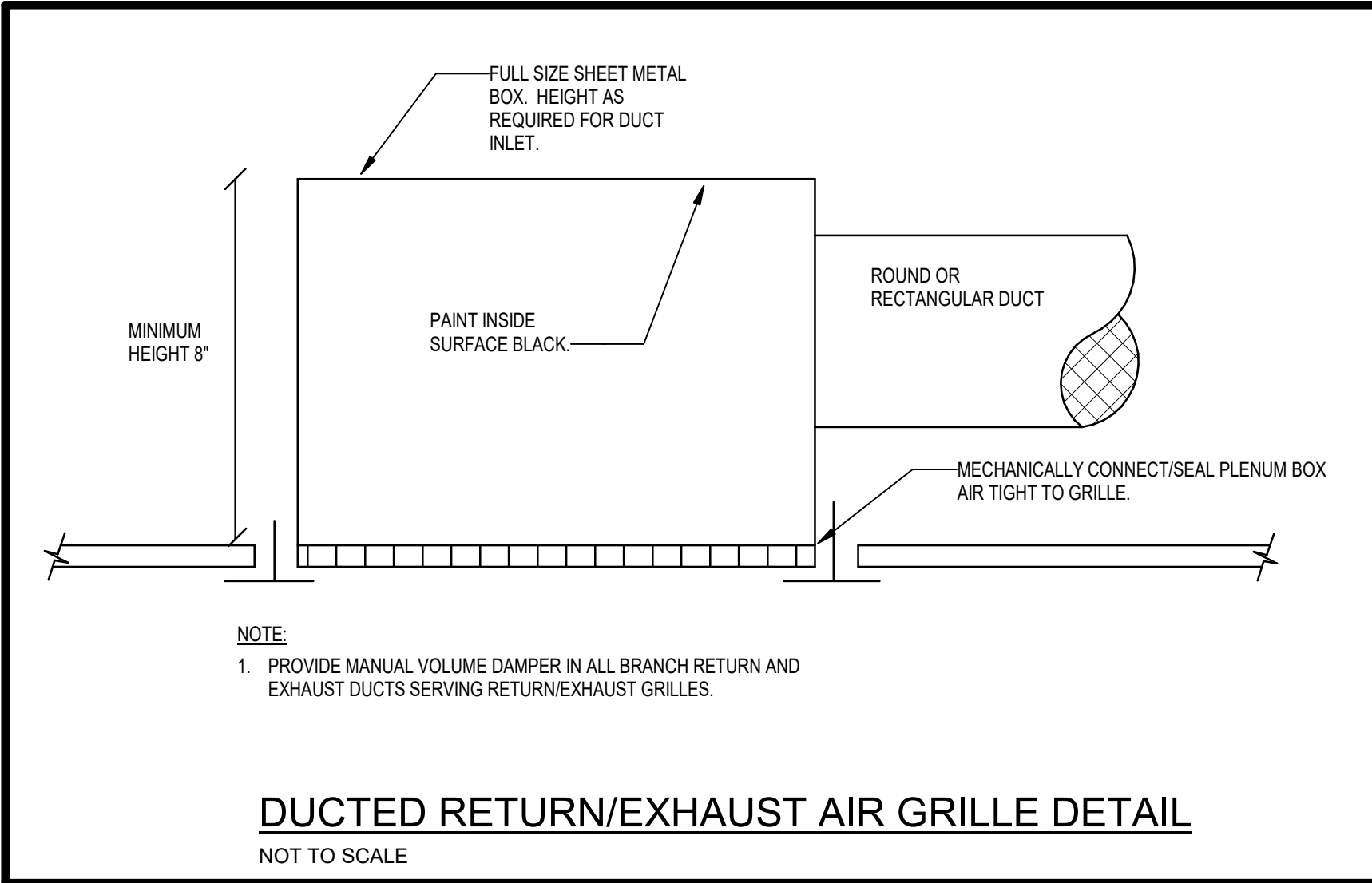
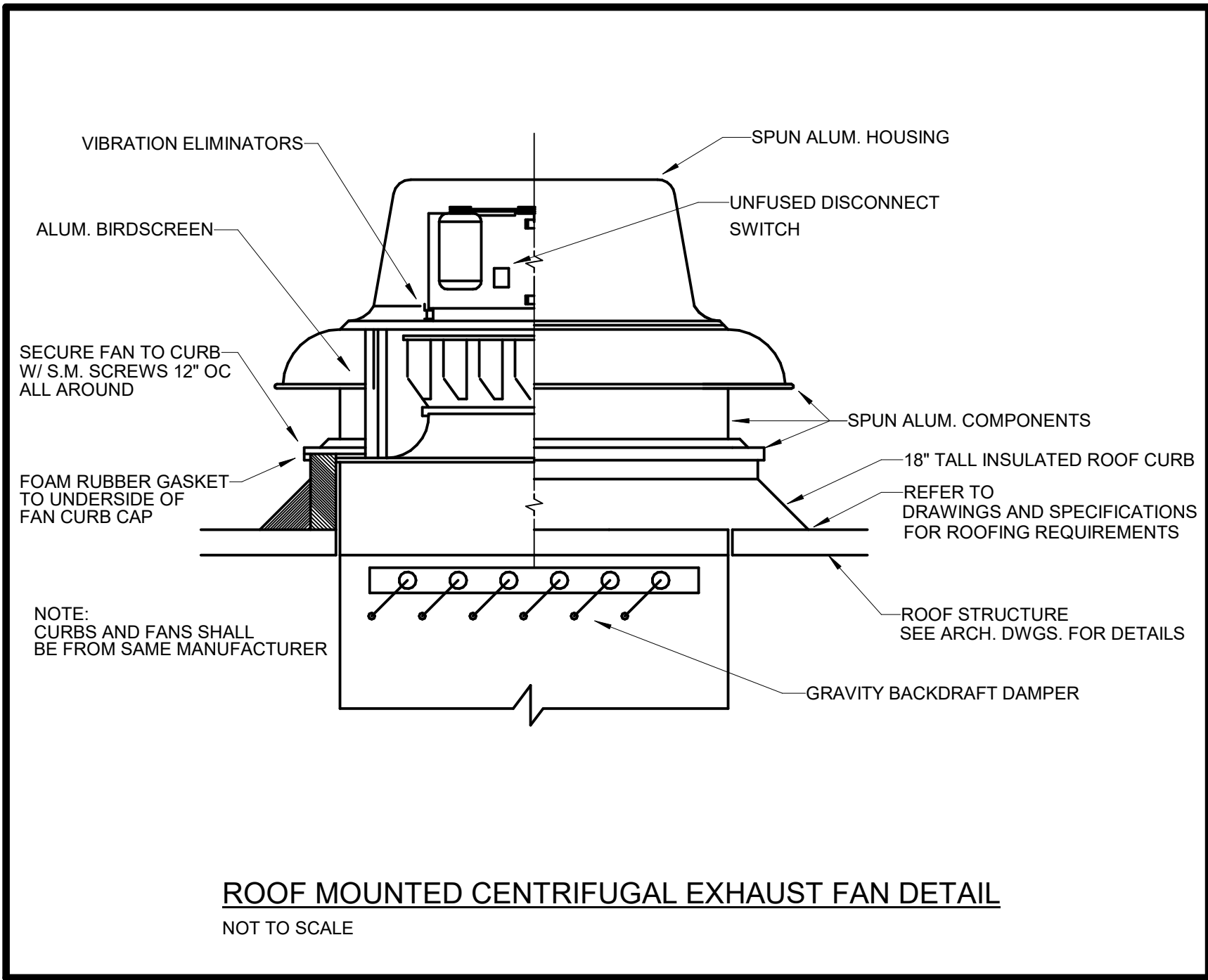
ISSUED FOR

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DATE
APRIL 30, 2025

SHEET NUMBER
M301
25-1218.001





PACKAGED AIR HANDLING UNIT - FAN SCHEDULE																							
MARK	INSTANCE MARK	MANUFAC TURER	MODEL #	SERVICE	PHYSICAL DATA				SUPPLY FAN							POWERED EXHAUST FAN		ELECTRICAL DATA					REMARKS
					WIDTH (IN.)	LENGTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	TOTAL SA CFM	MIN. OA CFM	# OF FANS	FAN RPM	E.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	VFD	TOTAL EA CFM	FAN MOTOR TYPE	VOLT.	PH.	MCA	MOCP	
RTU	4	TRANE	YCD330D4M	NEW ADDITION	90	180	74	5299.00 lbf	10500	3150	1	875	2.45	15	11	Yes	3150	PROP	460 V	3	88 A	100	ALL

PACKAGED AIR HANDLING UNIT - COIL SCHEDULE																	REMARKS
MARK	INSTANCE MARK	COOLING PERFORMANCE							GAS HEATING								
		TOTAL (MBH)	SENSIBLE (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VELOCITY (FPM)	EER	TOTAL CAPACITY (MBH)	LAT (°F)	INPUT HEATING CAPACITY (MBH)	OUTPUT HEATING CAPACITY (MBH)	MAX PRESURE (PSI)	MIN PRESSURE (PSI)	OPERATING PRESSURE (PSI)	
RTU	4	342.3	245.8	81 °F	68 °F	54 °F	54 °F	382 FPM	15.2	299.8	70 °F	350.0	284	0.50 lb/in²	0.25 lb/in²	0.50 lb/in²	

REMARKS:
1. ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN, AND VALENT.
2. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS. NO EXCEPTIONS.
3. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION WITH FOAM INJECTED PANELS.
4. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
5. PROVIDE WITH STAINLESS STEEL COIL CASING.
6. PROVIDE WITH HIGH EFFICIENCY SUPPLY AIR AND EXHAUST AIR FAN MOTORS AND INTEGRAL VFD'S WITH DISCONNECT. PROVIDE GATEWAY FOR INTERFACE WITH BAS.
7. UNIT DESIGN DIMENSIONS AND WEIGHTS ARE LISTED IN THE SCHEDULE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE FIT, CLEARANCES, ELECTRICAL REQUIREMENTS, ETC. ARE APPROPRIATE RELATIVE TO THE DESIGN INTENT.
8. PROVIDE UNIT WITH ROOF CURB.

FAN POWERED VAV BOX SCHEDULE																								REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE (IN)			DUCT CONNECTIONS		AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	ELECTRIC HEATING COIL			ELECTRICAL DATA								
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE			HEATING CFM	EAT (°F DB)	LAT (°F DB)	HEAT CAPACITY (MBH)	VOLTAGE	ø	Hz	FAN HP	FLA			
FVAV	06	4-1	TRANE	VSEG-06	SERIES	64	23	18	6" ø	11.5" x 14.25"	550	150	500	70 °F	95 °F	14.7 Btu/h	277	1	60 Hz	0.33	19 A	ALL		
FVAV	10	4-2	TRANE	VSEG-10	SERIES	64	31	18	10" ø	19" x 14.25"	1200	400	1200	70 °F	96 °F	36.8 Btu/h	480	3	60 Hz	0.75	44 A	ALL		
FVAV	10	4-3	TRANE	VSEG-10	SERIES	64	31	18	10" ø	19" x 14.25"	1200	400	1200	70 °F	96 °F	36.8 Btu/h	480	3	60 Hz	0.75	44 A	ALL		
FVAV	10	4-4	TRANE	VSEG-10	SERIES	64	31	18	10" ø	19" x 14.25"	1200	400	1200	70 °F	96 °F	36.8 Btu/h	480	3	60 Hz	0.75	44 A	ALL		
FVAV	10	4-5	TRANE	VSEG-10	SERIES	64	31	18	10" ø	19" x 14.25"	1200	400	1200	70 °F	96 °F	36.8 Btu/h	480	3	60 Hz	0.75	44 A	ALL		

REMARKS:
1. ACCEPTABLE MANUFACTURERS: TRANE, ENVIRO-TEC, GREENHECK.
2. PROVIDE WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
4. PROVIDE FILTER RACK AND MERV 8 FILTER.
5. PROVIDE EACH BOX WITH AN INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY A CONTROLLER LOCATED ON ANOTHER BOX.
6. INTEGRAL ELECTRIC HEATER WITH SCR CONTROL, HIGH LIMIT THERMOSTAT, AND HINGED ACCESS PANEL.
7. UNIT TO BE DOUBLE WALL CONSTRUCTION.

VAV BOX SCHEDULE W/ REHEAT COILS																								REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			ELECTRIC HEATING COIL			ELECTRICAL DATA							
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS	HEATING CFM	EAT (°F DB)	LAT (°F DB)	HEAT CAPACITY (MBH)	HEATER KW	VOLTAGE	PHASE			
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes	1200	75 °F	95 °F	25.9 Btu/h	11	480	3	ALL		
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes	1200	75 °F	95 °F	25.9 Btu/h	11	480	3	ALL		
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes	1200	75 °F	95 °F	25.9 Btu/h	11	480	3	ALL		
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes	200	75 °F	100 °F	5.4 Btu/h	1	120	1	ALL		

REMARKS:
1. ACCEPTABLE MANUFACTURERS: TRANE, ENVIRO-TEC, GREENHECK.
2. PROVIDE WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
4. PROVIDE EACH BOX WITH AN INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY A CONTROLLER LOCATED ON ANOTHER BOX.
5. INTEGRAL ELECTRIC HEATER WITH SCR CONTROL, HIGH LIMIT THERMOSTAT, AND HINGED ACCESS PANEL.
6. UNIT TO BE DOUBLE WALL CONSTRUCTION.

EXHAUST FAN SCHEDULE														REMARKS
MARK	MANUFACTURER	MODEL #	SERVICE	AIRFLOW (CFM)	TYPE	E.S.P.	DRIVE	RPM	FAN HP	ELECTRICAL DATA				
										VOLTAGE	PHASE	HZ		
EF-1	GREENHECK	G-098	ADDITION EXHAUST	475	DOWNBLAST CENTRIFUGAL ROOF EXHAUSTER	0.50 in-wg	DIRECT	1315	0.25	120	1	60	ALL	
EF-2	GREENHECK	G-060	UTILITY CLOSET EXHAUST	75	DOWNBLAST CENTRIFUGAL ROOF EXHAUSTER	0.25 in-wg	DIRECT	1550	0.10	120	1	60	ALL	

REMARKS:
1. ACCEPTABLE MANUFACTURERS: GREENHECK, LOREN COOK, TWIN CITY AND CAPTIVE-AIRE.
2. PROVIDE WITH ROOF CURB.
3. PROVIDE WITH BACKDRAFT DAMPER.
4. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
5. PROVIDE WITH SPEED CONTROLLER.

ELECTRIC WALL HEATER SCHEDULE								REMARKS	
MARK	INSTANCE MARK	MANUFACTURER	MODEL #	TYPE	ELECTRICAL DATA				
					KW	VOLTAGE	PHASE		
EVH	1	REZNOR	EHA-5	WALL MOUNTED UNIT HEATER	5 W	208	1	ALL	

REMARKS:
1. ACCEPTABLE MANUFACTURERS: REZNOR, MARKEL, DAYTON AND TRANE.
2. PROVIDE WITH INTEGRAL DISCONNECT AND SINGLE POINT CONNECTION.
3. PROVIDE WITH APPROPRIATE MOUNTING HARDWARE FOR RECESSED WALL MOUNTING.
4. PROVIDE WITH THERMAL OVERHEAT PROTECTION.
5. PROVIDE WITH MANUFACTURER'S FIELD INSTALLED IN-UNIT THERMOSTAT. SET TEMPERATURE TO 65 DEG F.
6. PROVIDE WITH RECESSING TRIM FRAME FOR FULLY RECESSED INSTALLATION.

REGISTERS, GRILLES, AND DIFFUSERS										REMARKS
MARK	MANUFACTURER	MODEL	TYPE	CFM RANGE	FACE SIZE	INLET DUCT SIZE	NECK SIZE			
E-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	0-100	10"x10"	6" DIA.	6" DIA.			1,2,3
R-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	101-225	22"x22"	8" DIA.	8" DIA.			1,2,3
R-2	TITUS	50F	ALUMINUM 1/2" EGG CRATE	226-400	22"x22"	-	10" DIA.			1,2,3
R-3	TITUS	50F	ALUMINUM 1/2" EGG CRATE	401-600	22"x22"	12" DIA.	12" DIA.			1,2,3
S-1	TITUS	OMNI AA	SQUARE PLAQUE DIFFUSER	0-100	10"x10"	6" DIA.	6" DIA.			1,2,3,4
S-2	TITUS	OMNI AA	SQUARE PLAQUE DIFFUSER	101-225	15"x15"	8" DIA.	8" DIA.			1,2,3,4
S-3	TITUS	OMNI AA	SQUARE PLAQUE DIFFUSER	226-400	18"x18"	10" DIA.	10" DIA.			1,2,3,4
T-1	TITUS	350FL	EXTRUDED ALUMINUM 3/4" BLADE SPACING	50 - 200	14"x10"	12"x8"	12"x8"			1,2

REMARKS:
1. ACCEPTABLE MANUFACTURERS: TITUS, PRICE, METALEARE.
2. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR AIR DEVICE MOUNTING TYPE. FOR LAY-IN CEILINGS, PROVIDE T-BAR MOUNTED AND 24"x24" ALUMINUM FILLER PANELS AS REQUIRED.
3. PROVIDE SQUARE TO ROUND TRANSITION BOX.
4. PROVIDE ALL SUPPLY DIFFUSERS WITH A MOLDED INSULATION BLANKET.

TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

REMARKS:
1. ACCEPTABLE MANUFACTURERS: REZNOR, MARKEL, DAYTON AND TRANE.
2. PROVIDE WITH INTEGRAL DISCONNECT AND SINGLE POINT CONNECTION.
3. PROVIDE WITH APPROPRIATE MOUNTING HARDWARE FOR RECESSED WALL MOUNTING.
4. PROVIDE WITH THERMAL OVERHEAT PROTECTION.
5. PROVIDE WITH MANUFACTURER'S FIELD INSTALLED IN-UNIT THERMOSTAT. SET TEMPERATURE TO 65 DEG F.
6. PROVIDE WITH RECESSING TRIM FRAME FOR FULLY RECESSED INSTALLATION.

TYPICAL FVAV INSTALLATION DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

REMARKS:
1. ACCEPTABLE MANUFACTURERS: REZNOR, MARKEL, DAYTON AND TRANE.
2. PROVIDE WITH INTEGRAL DISCONNECT AND SINGLE POINT CONNECTION.
3. PROVIDE WITH APPROPRIATE MOUNTING HARDWARE FOR RECESSED WALL MOUNTING.
4. PROVIDE WITH THERMAL OVERHEAT PROTECTION.
5. PROVIDE WITH MANUFACTURER'S FIELD INSTALLED IN-UNIT THERMOSTAT. SET TEMPERATURE TO 65 DEG F.
6. PROVIDE WITH RECESSING TRIM FRAME FOR FULLY RECESSED INSTALLATION.

TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

REMARKS:
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2. PROVIDE WITH INTEGRAL DISCONNECT AND SINGLE POINT CONNECTION.
3. PROVIDE WITH APPROPRIATE MOUNTING HARDWARE FOR RECESSED WALL MOUNTING.
4. PROVIDE WITH THERMAL OVERHEAT PROTECTION.
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6. PROVIDE WITH RECESSING TRIM FRAME FOR FULLY RECESSED INSTALLATION.

TYPICAL FVAV INSTALLATION DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

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TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
						LENGTH	WIDTH	HEIGHT	INLET SIZE	OUTLET SIZE	TOTAL A.P.D @ MAX. CFM ("WG)	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	PRESSURE INDEPENDENT CONTROLS
VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

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4. PROVIDE WITH THERMAL OVERHEAT PROTECTION.
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TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL														REMARKS
MARK	INSTANCE MARK	ZONE	MANUFACTURER	MODEL #	BOX TYPE	BOX SIZE			DUCT CONNECTIONS		VOLUME CONTROL DAMPER			
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VAV	10	4-6	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

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VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.02 in-wg	200	200	Yes

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TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL														REMARKS
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VAV	10	4-7	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	10	4-8	TRANE	VCEF-10	SINGLE DUCT	43	22	14	10	14X12	0.05 in-wg	1200	400	Yes
VAV	04	4-9	TRANE	VCEF-04	SINGLE DUCT	43	19	12	4	11X10	0.0			

GENERAL NOTES (LEGEND):

- A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES, INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.
- D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
- G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
- I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
- J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
- K. DO NOT SCALE FROM DRAWINGS. AS PRINTING DISTORTS SCALE, WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.
- M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
- N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- O. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
- R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
- S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITH OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
- U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
- V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2" DIMENSION OF 2'X4" TILE AND ON CENTERLINE OR A QUARTER POINT ON 4" DIMENSION.
- W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
- Y. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- Z. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- AA. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- BB. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
- CC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES, CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
- DD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES), COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- EE. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- FF. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
- GG. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- HH. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- II. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
- JJ. ALL ITEMS HAVING KEYEDED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYS SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- KK. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- LL. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK, ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
- MM. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ISSUED FOR

DATE

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL	DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL	DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL	DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL	DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES			LIGHTING			ABBREVIATIONS			SECURITY PANIC ALARM			SYSTEM RESPONSIBILITY MATRIX		
LIGHT SWITCH-GENERAL PURPOSE	46"	\$	REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.			UNLESS OTHERWISE NOTED	46"	PS	PANIC ALARM BUTTON	46"	PS			
EXAM LIGHT SWITCH	46"	\$X				OWNER FURNISHED CONTRACTOR INSTALLED	46"	PA	PANIC ALARM ANNUNCIATOR	46"	PA			
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	\$N	SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)			OWNER FURNISHED OWNER INSTALLED	80"	AS	AMBER STROBE	80"	AS			
SURGICAL LIGHT INTENSITY CONTROL	46"	\$SL	POLE MOUNTED AREA LIGHT			CONTRACTOR FURNISHED CONTRACTOR INSTALLED	46"	SEC-P	PANIC ALARM POWER SUPPLY CABINET	46"	SEC-P			
DIMMER SWITCH	46"	\$D	EMERGENCY BATTERY WALL-PACK			INDICATES EMERGENCY POWER								
THREE-WAY SWITCH	46"	\$3	WALL MOUNT FIXTURE			SPECIAL OUTLETS			SECURITY INTERCOM					
FOUR-WAY SWITCH	46"	\$4	FLOODLIGHT			FLOORBOX, POWER ONLY, AS SCHEDULED	FLOOR		AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM	18"	IM			
KEYED SWITCH	46"	\$K	SURGICALEXAM LIGHT			FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, REFER TO FLOORBOX SCHEDULE	FLOOR		DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	46"	IMW			
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	\$OS, \$VS	EXIT LIGHT (CEILING, END, WALL MOUNT)			FIRE RATED PONE-TURN FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR		AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE, ALPHAONE #AX-DVF.	46"	IR			
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	\$U	STRIP FIXTURE			AUDIOVISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV	SECURITY ACCESS CONTROL					
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	\$IL	CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH			COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"		DOOR ALARMPPOSITION SWITCH	DOOR FRAME	DA			
LOW VOLTAGE MOMENTARY SWITCH	46"	\$LV	PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH			COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"		MAGNETIC LOCK(S)	ABV DOOR	MA			
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	\$PL				OVERHEAD PROJECTOR, PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (S) PLATES	CLG		DOOR POWER SUPPLY	ABV CLG	DS			
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	\$M	MISCELLANEOUS			SPECIAL VIDEO SYSTEM SIGNAL INPUT			ELECTRIC STRIKE	AT LATCH	ES			
MOMENTARY CONTACT SWITCH	46"	\$MC	CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE, ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS, HASHMARKS INDICATE # OF CONDUCTORS, DASHED LINE INDICATES CONDUIT BELOW FLOOR			SURFACE FLUG-MOLD			AUTOMATIC DOOR CONNECTION MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS	CLG	AD			
HAND-OFF-AUTO 3-POSITION SWITCH	46"	\$HOA	DISCONNECT SWITCH	5'-0"		SURFACE WIRE-MOLD			DOOR RELEASE PUSH-PLATE / INFRARED OPERATOR STATION, PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PS			
TIMER SWITCH	46"	\$T	MAGNETIC STARTER	5'-0"		POWER POLE AS NOTED			DOOR RELEASE KEYSWITCH STATION	6'-0"	KS			
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	\$C	MAGNETIC COMBINATION STARTER	5'-0"					DOOR RELEASE CARD READER STATION, PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	NR			
PHOTO-CELL AS NOTED	AS NOTED	\$C	VARIABLE FREQUENCY DRIVE	5'-0"		TELEVISION			SAME AS "CR" EXCEPT MILLION MOUNT	46"	CM			
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAILS)	AS NOTED	\$ER	ENCLOSED FLUSH MTD, CIRCUIT BREAKER	5'-0"		TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"		MOTION SENSOR DOOR CONTROL	CEIL.	MS			
			BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIRE-MOLD						PUSH-TO-EXIT BUTTON	46"	PE			
			CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT			OVERHEAD PAGING			ACCESS CONTROL, POWER SUPPLIES/CONTROL PANEL	46"	SECA			
			WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN		PAGING SPEAKER: CEILING	CLG		SECURITY CCTV VIDEO SURVEILLANCE					
			TRENCH DUCT (SIZE AS NOTED)	AS SHOWN		PAGING SPEAKER W/ VOLUME CONTROL	CLG		REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	RR			
			PUSHBUTTON STATION	46"		PAGING SPEAKER: WALL	9'-0"		CCTV CAMERA: CEILING MOUNT DOME	CLG	CC			
			FLEXIBLE CONDUIT			RECESSED WALL MOUNTED PAGING SPEAKER	8'-0"		CCTV CAMERA: WALL MOUNT DOME	WALL	CCW			
			PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP		CALL INITIATION STATION	46"		INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILIARY HEATER		WP			
			TRANSFORMER	AS NOTED		WALL VOLUME CONTROL	46"		CCTV POWER SUPPLIES/CONTROL PANEL	46"	PTZ			
			EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE			LCD WALL DISPLAY			SECURITY INTRUSION DETECTION					
			TAGGED NOTE			PAGING MICROPHONE	1'-6"		MOTION DETECTOR	CLG	MD			
			REVISION TAG			PAGING SYSTEM AMPLIFIER/TUNER CABINET	46"		MOTION DETECTOR KEYPAD CONTROLLER	46"	MX			
			MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)			CLOCKS			SECURITY SYSTEM HEAD END	46"	SECM			
			WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN		ANALOG CLOCK	84"		CEILING MOUNTED PROJECTOR					
			LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN		ELAPSED TIMER			AV SYSTEM CABLE TERMINATIONS / WALLPLATE	46"	AV			
			SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN		DIGITAL CLOCK: SINGLE FACE	84"		CLASSROOM PROJECTOR SPEAKER	H-39	CS			
			LOW VOLTAGE CABLE PATH			DIGITAL CLOCK: DUAL FACE	84"		SMARTBOARD		SB			
			DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	46"		CLOCK SYSTEM HEAD END	84"		SMARTBOARD WITH INTEGRAL PROJECTOR		P SB			
			DOORBELL AUDIOVISUAL STATION, PROVIDE CONNECTION TO PUSHBUTTON, STATION IN AREA COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OWNER/ARCHITECT, NUTONE OR EQUAL	7'-6"		PANEL FURNITURE			CART / CEILING / WALL PROJECTOR (AS NOTED)		P			
			ELECTRIC WATER COOLER RECEPTACLE: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET(S) BEHIND COOLER, PROVIDE MULTIPLE RECEPTACLES WHERE REQUIRED BY MANUFACTURER, PROVIDE READILY ACCESSIBLE DEAD FRONT GFCI DEVICE AT 18" ADJACENT TO WATER COOLER FOR PROTECTION OF WATER COOLER RECEPTACLE(S)			PANEL FURNITURE DUPLEX RECEPTACLE, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR								
						PANEL FURNITURE DATA/VOICE OUTLET, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR								
						POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"							
						COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"							
						DATA / VOICE								
						DATA OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D						
						VOICE OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V						
						COMBINATION OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D#V						
						MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF						
						INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF						
						TELECOMMUNICATIONS SYSTEM BACKBOARD, PROVIDE 96"x 3/4" FIRE-RETARDANT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #30 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 36-PT GROUND BAR AND A 6'-0" x 8' AVG PIGTAIL AT BACKBOARD, INSTALL BOARD AT 2' AFF, LENGTH OF BOARD AS INDICATED ON FLOOR PLAN		TEL						
						WIRELESS ACCESS POINT WITH PROVISIONS FOR 1) DATA OUTLET FOR ANTENNA, PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING, AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION, THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS, WAPS ARE OWNER FURNISHED, OWNER-INSTALLED		WAP						

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FIRST FLOOR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



GENERAL NOTES (DEMOLITION):

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND GRAY SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- C. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- D. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- E. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- G. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- H. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- I. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- J. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- K. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- L. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

KEYNOTES

- D1 LIGHTING FIXTURES AND CONTROLS SHALL BE DEMOLISHED. LIGHT FIXTURE CIRCUITS SHALL REMAIN FOR REUSE.
- D2 COORDINATE RELOCATION OF COMMUNICATIONS UTILITY ENTRANCE EQUIPMENT WITH OWNER.
- D4 CEILING MOUNTED DEVICES SHALL REMAIN FOR REUSE DURING NEW CEILING INSTALLATION. PROTECT DURING DEMOLITION.
- D5 RELOCATE EXISTING FIXTURES, EXTENDED CONDUIT AND CABLING TO NEW LOCATIONS INDICATED ON NEW WORK PLANS.

SHEET TITLE

SHEET TITLE
ELECTR

 **KEY PLAN**
SCALE: NO SCALE

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAYOUT. AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTOR SHALL BE RUN IN THE SAME RACEWAY AND CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CIRCUITS CARRYING THE SAME CONDUIT. CONTRACTOR SHALL FOLLOW UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIRATE BRANCH CIRCUITS AS DEFINED IN N.E.C.#110.4. CONTRACTOR SHALL FOLLOW A COMMERCIAL CODE OF PRACTICE. CONTRACT SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTABLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR NEAR PANELS WITH BLACK LETTERING. IN HIGH RISK AREAS, CUTLIES ENGRAVE EMERGENCY USE ONLY OVERLAP PATENT AND OTHER AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID WIRE AND PIPING. TO MAXIMIZE AVAILABLE LIGHT SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS. PROVIDE INDICATED EXIT SIGNS TO ALL AREAS OF CONSTRUCTION. IDENTIFY ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS. REMOVE LIGHT AND REMOVE BASKET, ALLOY OR CONE. ALL LIGHTING FIXTURES, PARABOLIC LOUVERS, DOWNLIGHTING ALZON CONES AND "PARABOLIC" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID DAMAGE TO OR DISCOLORING OF THE SURFACE. ALL LAMPS SHALL BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LAMPS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS CHANGING, REMOVE BAGS, BASKET, ALLOY OR CONE. SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

G. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIP LIGHTING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILING AT COMPLETION OF CONSTRUCTION.

H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED TO CLEAN LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIP LIGHTING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILING AT COMPLETION OF CONSTRUCTION.

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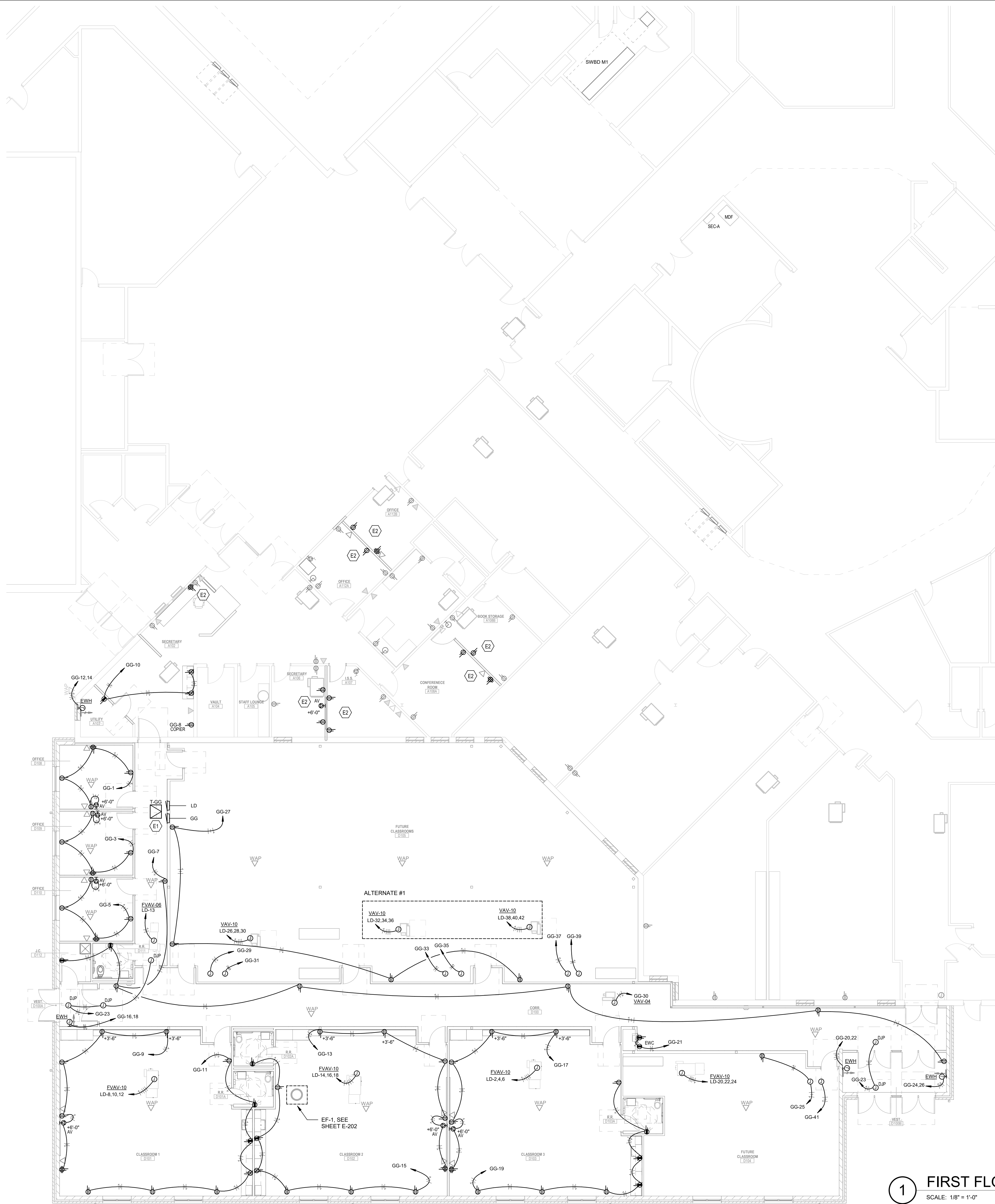
L1 UTILIZE EXISTING LIGHTING CIRCUIT IN AREA. EXTEND CABLING AND CONDUIT TO NEW FIXTURES AND DEVICES.

L2 RELOCATED LIGHT FIXTURES IN ADMIN SPACE SHALL UTILIZE LOCAL EXISTING LIGHTING CONTROLS.

SCALE: 1/8" = 1'-0"

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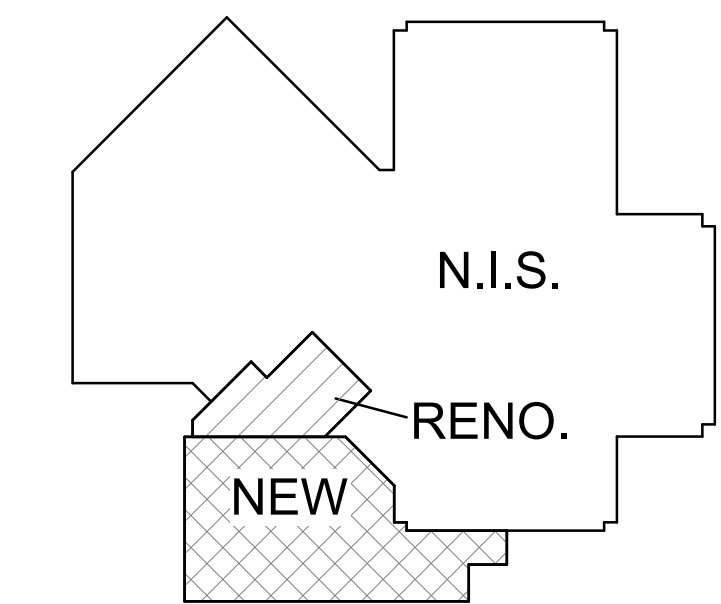
GENERAL NOTES (POWER):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

KEYNOTES

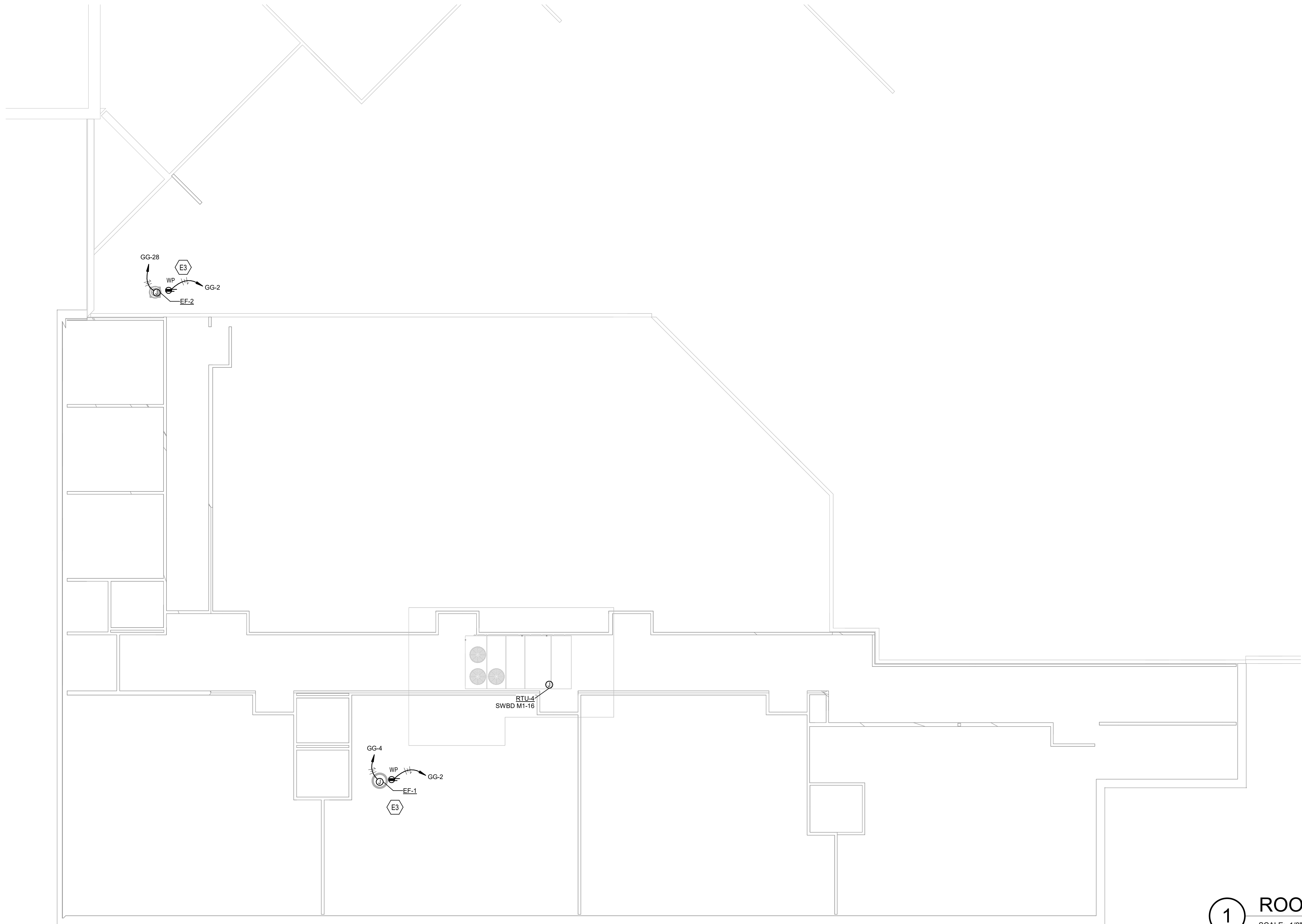
- E1 LOCATE DRY-TYPE TRANSFORMER ABOVE CEILING. PROVIDE VIBRATION ISOLATION PADS. REFER TO DETAIL FOR MORE INFORMATION.
- E2 UTILIZE EXISTING CIRCUIT IN AREA FOR CONNECTION TO NEW RECEPTACLES. EXTEND CABLING AND CONDUIT TO NEW DEVICE LOCATIONS. PROVIDE 120V, 1PH, #12, #12G, 34°C.

EQUIPMENT CONNECTION SCHEDULE						
EQUIP ID	DESCRIPTION	DISCONNECT MEANS	VOLTAGE	POLES	HP	POWER (kVA)
EF-1	EXHAUST FAN	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	120	1	1/4	0.70
EF-2	EXHAUST FAN	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	120	1	1/4	0.70
EW1	ELECTRIC WALL HEATER	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	208	2		5.00
FVAV-06	VARIABLE AIR VOLUME BOX	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	277	1		5.26
FVAV-10	VARIABLE AIR VOLUME BOX	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	480	3		38.56
RTU-4	ROOF TOP UNIT	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	480	3		66.48
VAV-04	VARIABLE AIR VOLUME BOX	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	120	1		1.00
VAV-10	VARIABLE AIR VOLUME BOX	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT	480	3		11.00



KEY PLAN
SCALE: NO SCALE





1 ROOF - POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER):

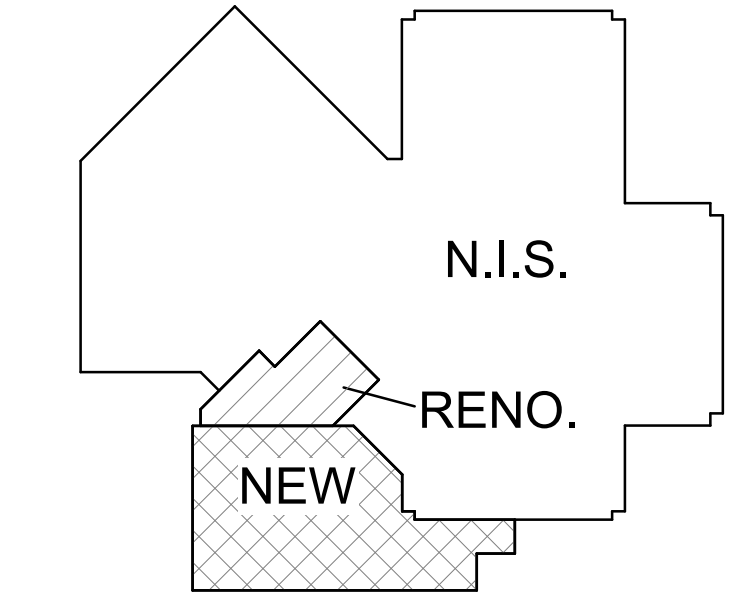
- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

GENERAL NOTES (ROOF):

- A. REFER TO POWER, SYSTEMS, AND LIGHTING PLANS FOR GENERAL NOTES APPLICABLE TO INTERIOR SPACES SHOWN ON THIS PLAN.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE ENGRAVED LAMACOID LABELS FOR ALL EXTERIOR DEVICES. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. PROVIDE UNI-STRUT AS REQUIRED FOR MOUNTING OF ALL DEVICES ON ROOF. COORDINATE WITH ROOFING CONTRACTOR PRIOR TO CONSTRUCTION FOR ALL PENETRATIONS. SEAL PENETRATIONS AS REQUIRED PER ROOFING CONTRACTOR AND ROOFING MANUFACTURER'S RECOMMENDATIONS AS REQUIRED TO MAINTAIN ROOF WARRANTY. PROVIDE CURBS AND/OR FLASHED BOOTS AT ALL DEVICES AND PENETRATIONS.
- E. CONDUITS SHALL PENETRATE ROOF FROM BELOW AS CLOSE TO FINAL ROOF EQUIPMENT TERMINATION POINT AS POSSIBLE. SUPPORT ALL ROOF MOUNTED CONDUITS AT INTERVALS NOT EXCEEDING 10 FEET WITH STRUT-BASED SUPPORT SYSTEM. SUPPORT SYSTEM TO BE CADDY PYRAMID ST SERIES OR APPROVED EQUAL.
- F. ALL CONDUIT EXPOSED TO DIRECT SUNLIGHT SHALL BE AT LEAST 12" ABOVE THE ROOF-TOP. NO CONDUIT SHALL BE EXPOSED TO DIRECT SUNLIGHT BELOW THIS HEIGHT.
- G. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.
- H. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- I. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.
- J. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED IN CEILING SPACE BELOW ROOF DECK UNO.

KEYNOTES

- E3 PROVIDE ALUMINUM SLOTTED CHANNEL WITH ACCESSORIES, AS REQUIRED, FOR ROOF MOUNTING MAINTENANCE RECEPTACLE.



KEY PLAN
SCALE: NO SCALE



1 FIRST FLOOR - SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES (SYSTEMS):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

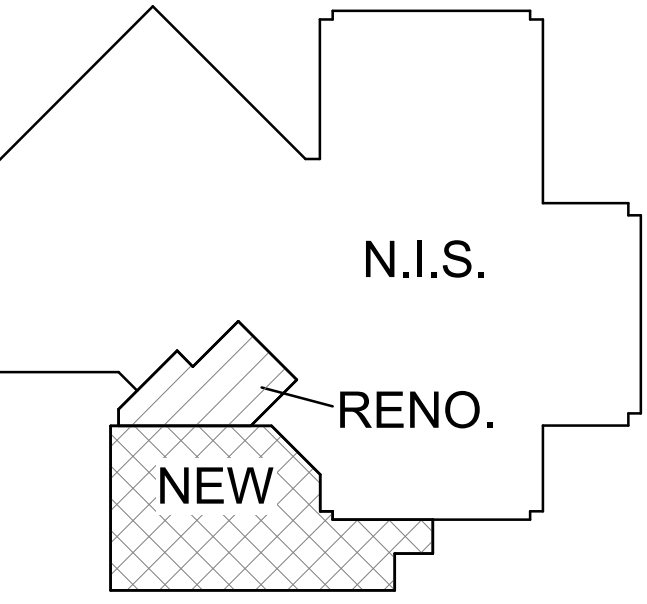
GENERAL NOTES (INTERCONNECTION):

- A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.
- B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).
- C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
- D. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
- E. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.
- F. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.
- G. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.
- H. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

KEYNOTES

- S1 PROVIDE RE-PENETRABLE FIRE STOPPING, STI EZPATH SERIES 44+ OR EQUAL.
- S3 PROVIDE DUCT SMOKE DETECTOR FOR ROOF TOP UNIT RETURN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- S4 NEW PROPOSED LOCATION OF COMMUNICATIONS EQUIPMENT. PROVIDE (2) 4" STUB-UP WITHIN JANITOR'S CLOSET. PROVIDE UNDERGROUND CONDUIT CAPPED FOR UTILITY CABLING FEED THRU. COORDINATE EXACT LOCATION WITH OWNER AND OWNER SERVICE PROVIDER PRIOR TO INSTALLATION.

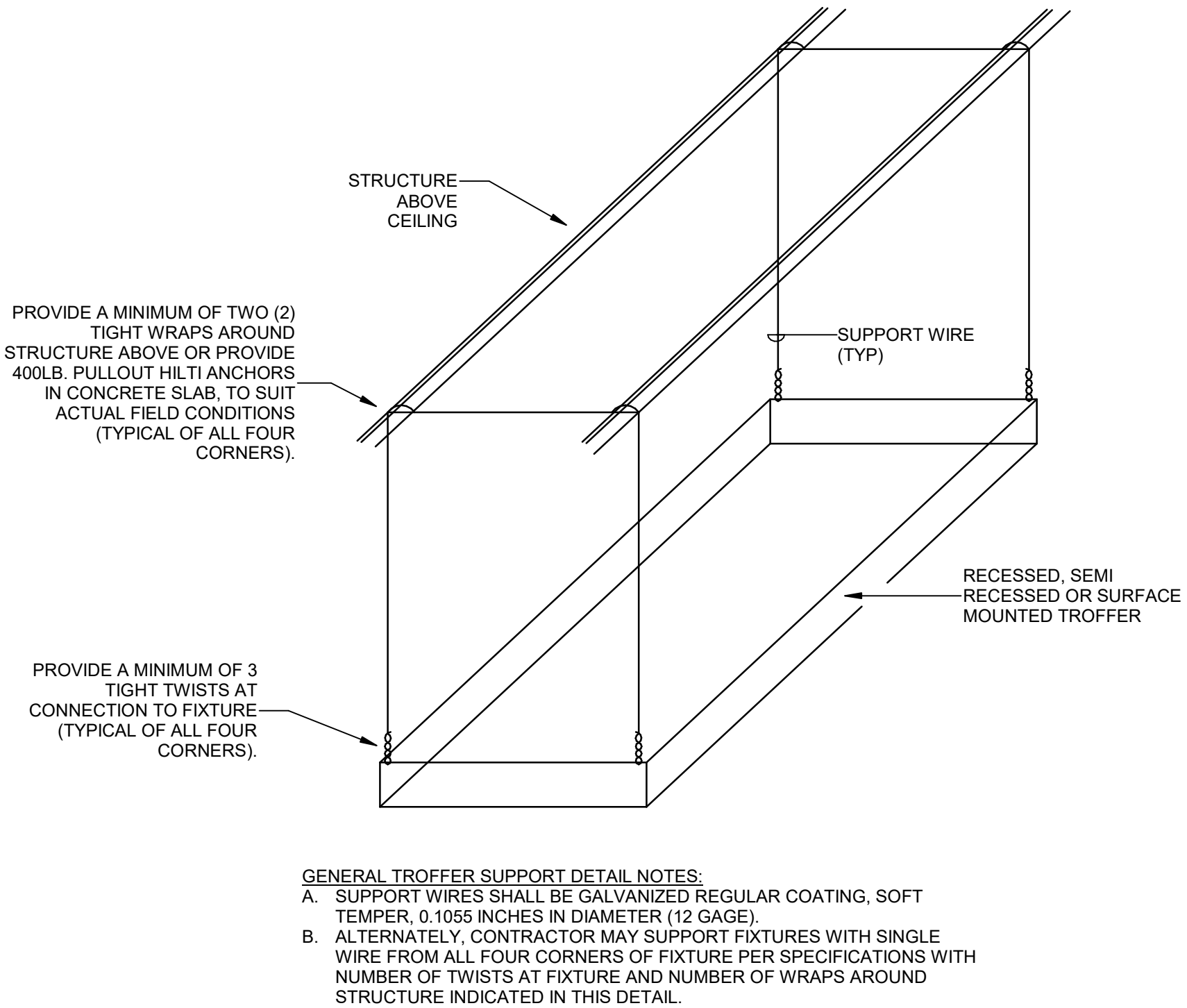
MILAN ELEMENTARY SCHOOL



KEY PLAN
SCALE: NO SCALE

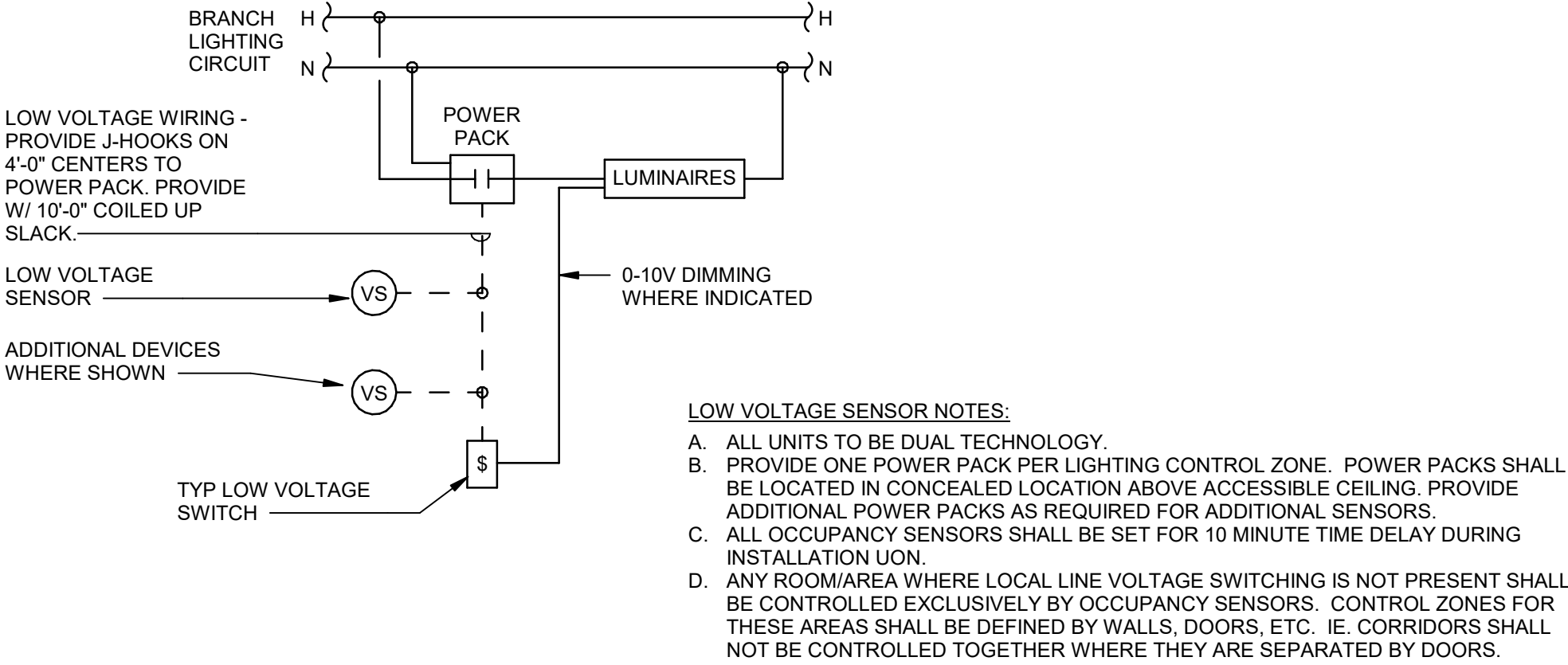
3 TROFFER SUPPORT DETAIL

NO SCALE



4 TYPICAL LOCAL SENSOR DETAIL

NO SCALE



2 LIGHTING CONTROL LEGEND

NO SCALE

LIGHTING CONTROL LEGEND	
WALL SWITCH SENSOR, STAND ALONE, DUAL TECHNOLOGY, SINGLE POLE	SENSOR SWITCH: WSX P0T
WALL SWITCH SENSOR, STAND ALONE, DUAL TECHNOLOGY, 0-10V DIMMING	SENSOR SWITCH: WSX P0T D
DIGITAL WALL SWITCH, ON/OFF, SINGLE ZONE	SENSOR SWITCH: sP0DM
DIGITAL WALL SWITCH, DIMMING, SINGLE ZONE	SENSOR SWITCH: nP0DM D SA
WALL TIMER SWITCH, LOW TEMP, HIGH HUMIDITY, FLASH WARNING	SENSOR SWITCH: P1S-B0LT
CEILING SENSOR, DUAL TECHNOLOGY, RECESSED 'X' DENOTES EXTENDED RANGE	SENSOR SWITCH: nRM P0T 9 nRM P0T 10
POWER PACK RELAY, DIMMING, SINGLE ZONE, 16A	SENSOR SWITCH: nPP16 D
POWER PACK RELAY, DIMMING, SINGLE ZONE, 16A, UL284 EMERGENCY FUNCTION	SENSOR SWITCH: nPP16 D ER

- NOTES:
- A. OS - OCCUPANCY SENSORS TO BE PROGRAMMED AS AUTOMATIC ON, AUTOMATIC OFF.
- B. VS - VACANCY SENSORS TO BE PROGRAMMED AS MANUAL ON, AUTOMATIC OFF.
- C. OR EQUAL BY WATTSSTOPPER OR HUBBELL.
- D. SENSOR AUTOMATIC OFF TIME INTERVAL TO BE SET AT 20 MIN.
- E. ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
- F. ALL DEVICES TO BE LOCATED IN ACCESSIBLE LOCATIONS APPROVED BY ENGINEER.
- G. REFER TO SPECIFICATIONS FOR DEVICE FINISHES.

	SENSOR		SCHEDULE				WALL SWITCH		DAYLIGHT SENSOR	OTHER				
	VACANCY	OCCUPANCY	SCHEDULED ON AT	SCHEDULED OFF AT	SCHEDULE OVERRIDE SWITCH	BAS INTERFACE	ON/OFF	ON/OFF W/ CONT. DIMMING		EXTERIOR LOCATION	PLUG LOAD CONTROL	AV INTEGRATION	INTERIOR PHOTOCELL	OCCUPANCY TO BAS
CLASSROOM	X	10 MIN	X							40				B2
PRIVATE OFFICE	X	10 MIN	X					X		40				B3
RESTROOM-PRIVATE	X	15 MIN	X							30				A1
CORRIDOR	X	20 MIN			X					15				D1
VESTIBULE	X	10 MIN								20				E1
JANITORIAL CLOSET	X	10 MIN	X				X			30				B1
SHELL							X							C
BUILDING EXTERIOR			DUSK	DAWN	X					X	X			F1

SEQUENCE	CONTROL TYPE	DESCRIPTION	SEQUENCE OF OPERATION
A1	OCCUPANCY	AUTO ON AUTO OFF	ON: AUTO ON WHEN OCCUPANCY IS DETECTED OFF: MANUAL OVERRIDE TO OFF VIA WALL SWITCH OFF: AUTOMATIC OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY.
B1	VACANCY	MANUAL ON TO 100% AUTO OFF	ON: MANUAL ON VIA WALL SWITCH OFF: MANUAL OVERRIDE TO OFF VIA WALL SWITCH OFF: AUTO OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY.
B2	VACANCY W/ PRESET DIMMING	MANUAL ON TO 50% MANUAL ADJUST TO 100% AUTO OFF	ON: MANUAL ON TO 50% VIA WALL SWITCH(ES) ADJUST: MANUAL ADJUSTMENT TO 0%,50%,100% VIA WALL SWITCH(ES) OFF: AUTO OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY.
B3	VACANCY W/ CONTINUOUS DIMMING	MANUAL ON TO 100% CONTINUOUS DIMMING AUTO OFF	ON: MANUAL ON VIA WALL SWITCH(ES) ADJUST: 0-100% CONTROL VIA WALL SWITCH(ES) AT ROOM ENTRY OFF: AUTO OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY.
C	MANUAL	MANUAL ON MANUAL OFF	ON: MANUAL ON VIA WALL SWITCH OFF: MANUAL OFF VIA WALL SWITCH
D1	OCCUPANCY SETBACK	ALWAYS ON TO 100% AUTO DIM TO 50%	ON: ALWAYS ON SETBACK: AUTO DIM TO 50% OUTPUT WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY. OVERRIDE: ON TO 100% FOR 2 HOUR PERIOD VIA OVERRIDE SWITCH.
E1	ALWAYS ON W/OCCUPANCY SETBACK	ALWAYS ON TO 100% AUTO DIM TO 20%	ON: ALWAYS ON SETBACK: AUTO DIM TO 20% OUTPUT WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY.
F1	PHOTOCELL	AUTO ON AUTO OFF	ON: AUTO ON VIA PHOTOCELL AT DUSK OFF: AUTO OFF VIA PHOTOCELL AT DAWN

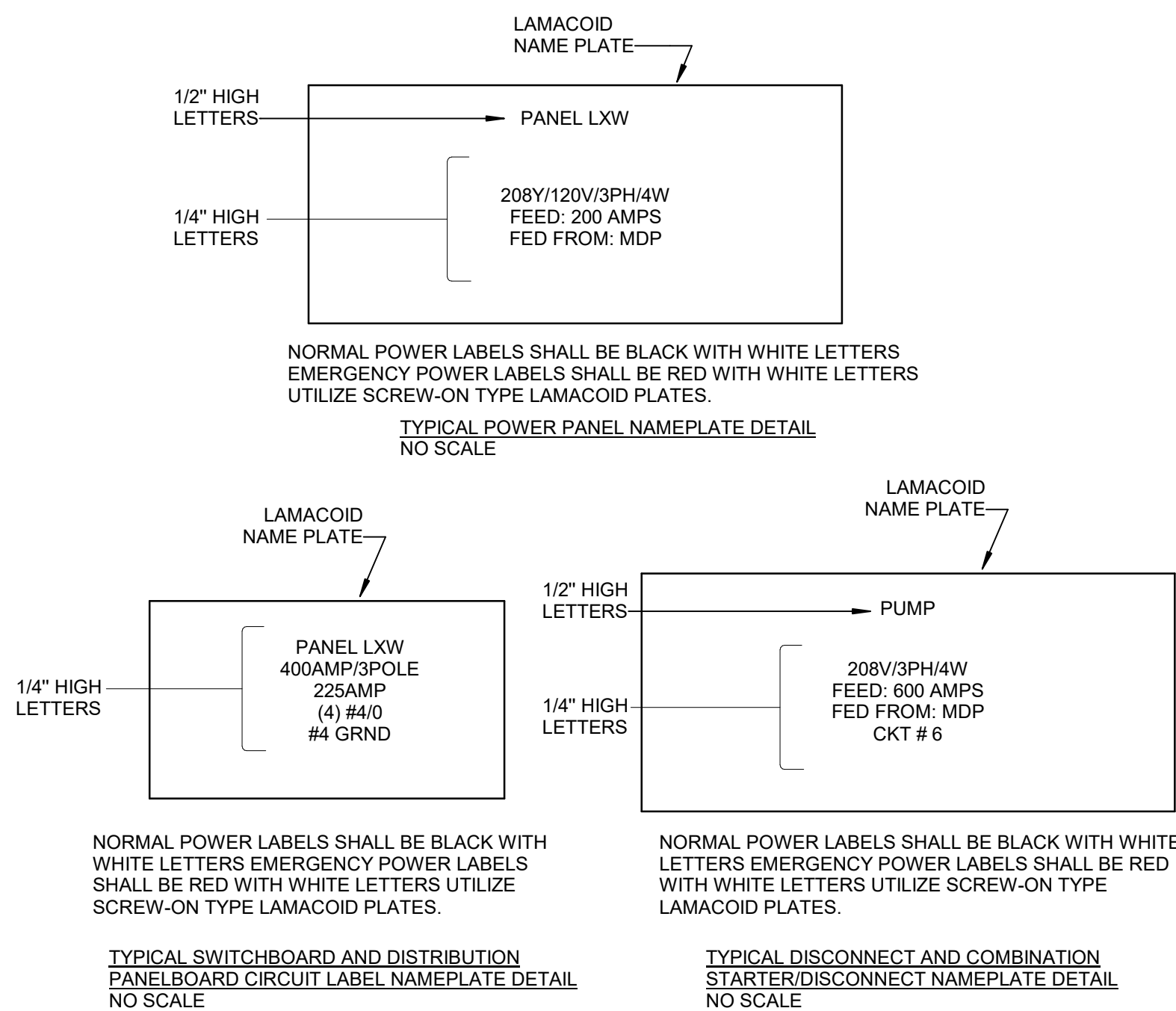
1 TYP LIGHTING CONTROL WIRING

NO SCALE

- GENERAL NOTES (LUMINAIRE SCHEDULE):**
- A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
- B. WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER/ HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.
- C. PROVIDE BALLASTS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS. WHERE A SINGLE FIXTURE IS POWERED FROM NORMAL AND EMERGENCY POWER, HALF OF THE LAMPS WITH A MINIMUM OF TWO LAMPS SHALL BE ON EMERGENCY POWER.
- D. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
- E. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.
- F. ALL BATTERY POWERED FIXTURES SHALL HAVE TEST SWITCHES FACTORY INSTALLED INTEGRAL TO THE REFLECTOR. REMOTE TEST SWITCHES WILL NOT BE ACCEPTED.

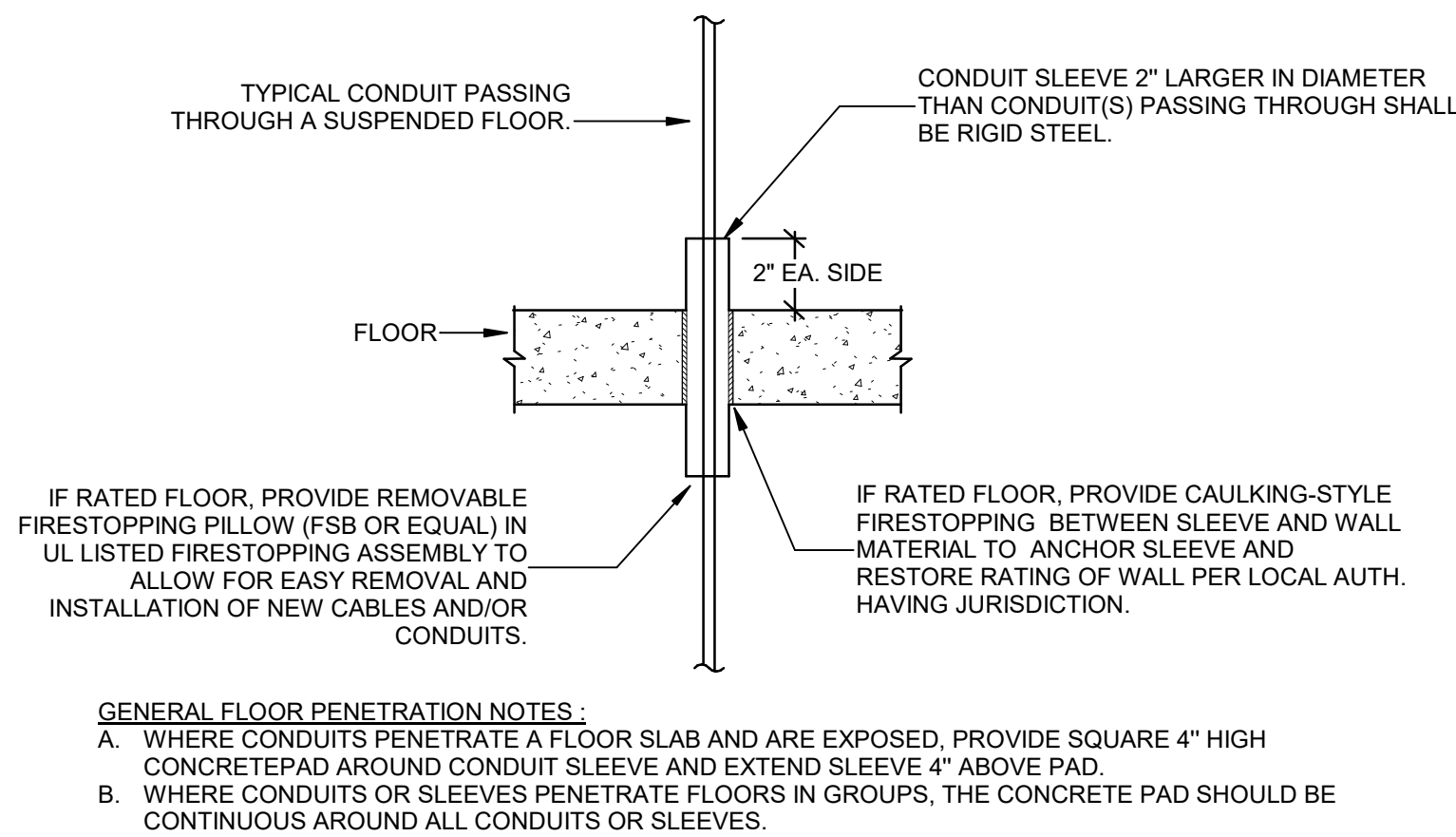
1 PANEL LABELING DETAILS

NO SCALE



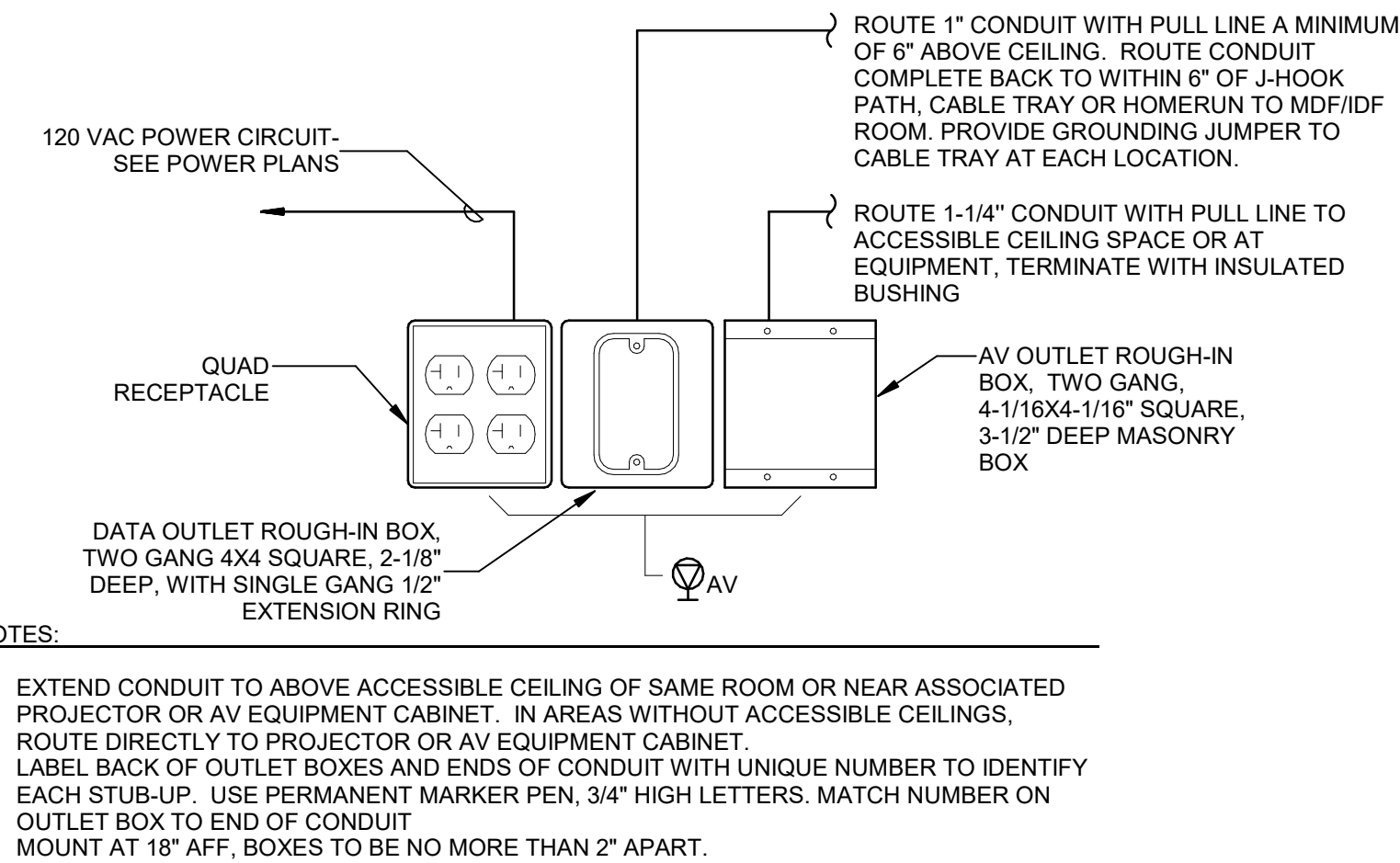
2 CONDUIT PENETRATION SLEEVE INSTALLATION

NO SCALE



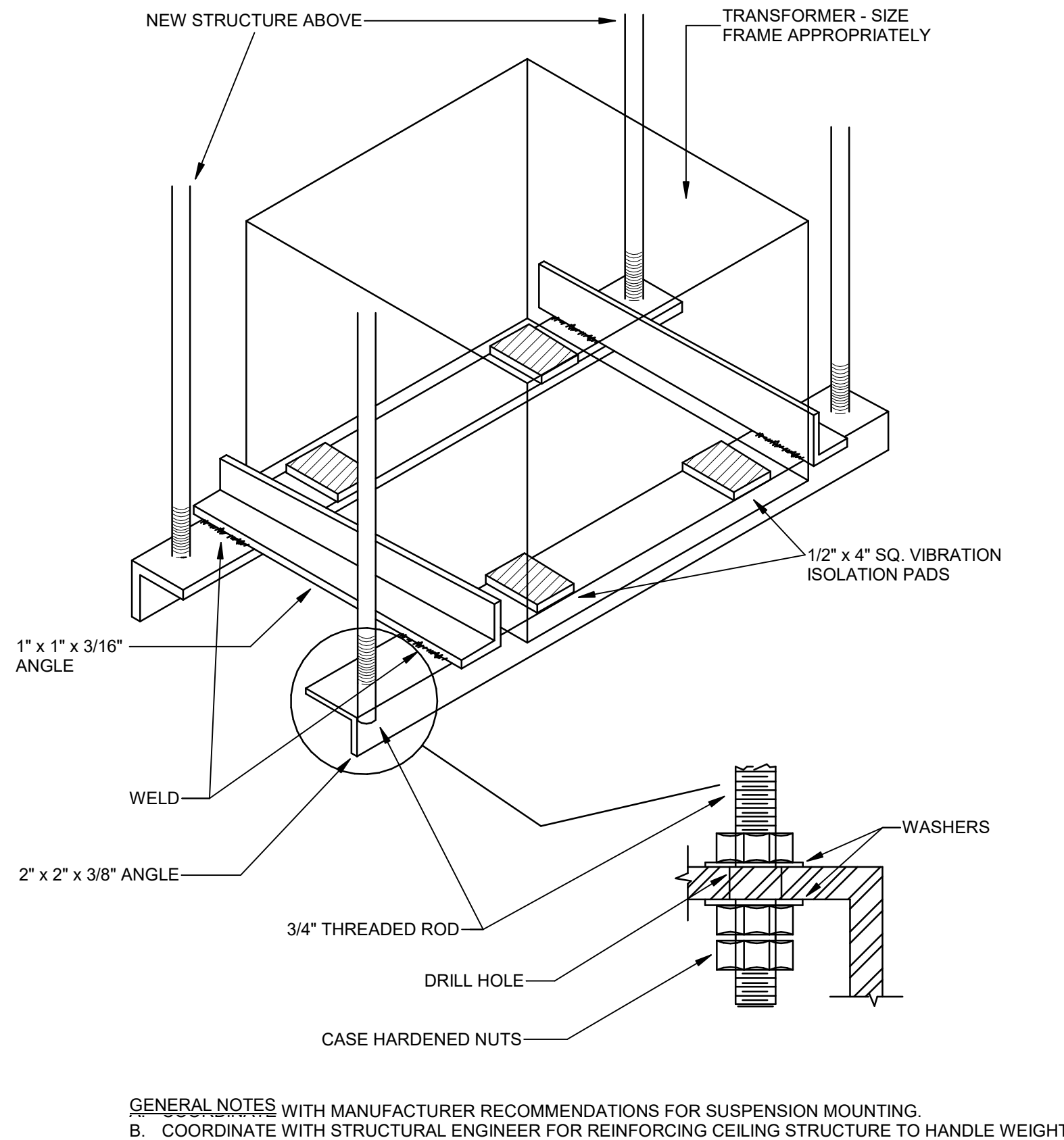
6 AV OUTLET BOX DETAIL

NO SCALE



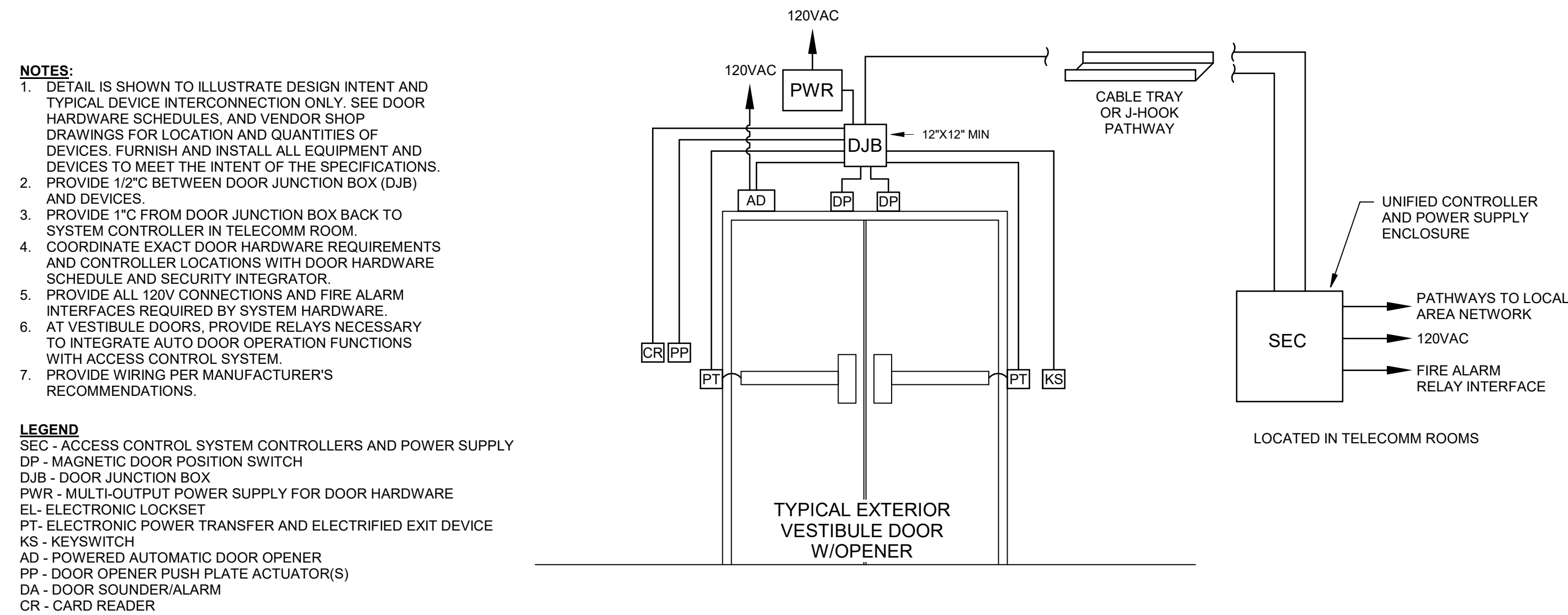
3 SUSPENDED DRY-TYPE TRANSFORMER INSTALLATION

NO SCALE



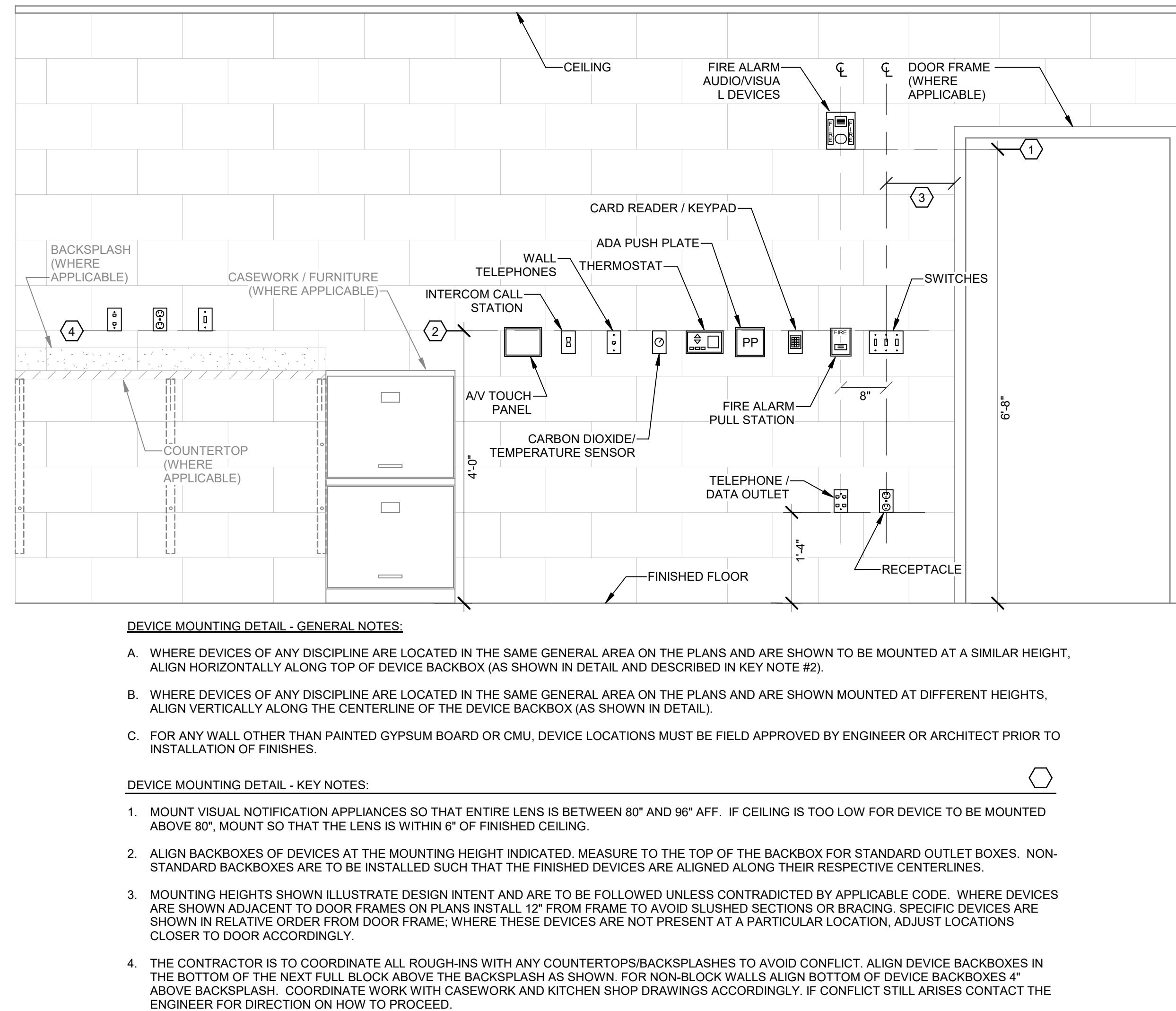
5 TYP DOOR ACCESS CONTROL & MONITORING DETAIL

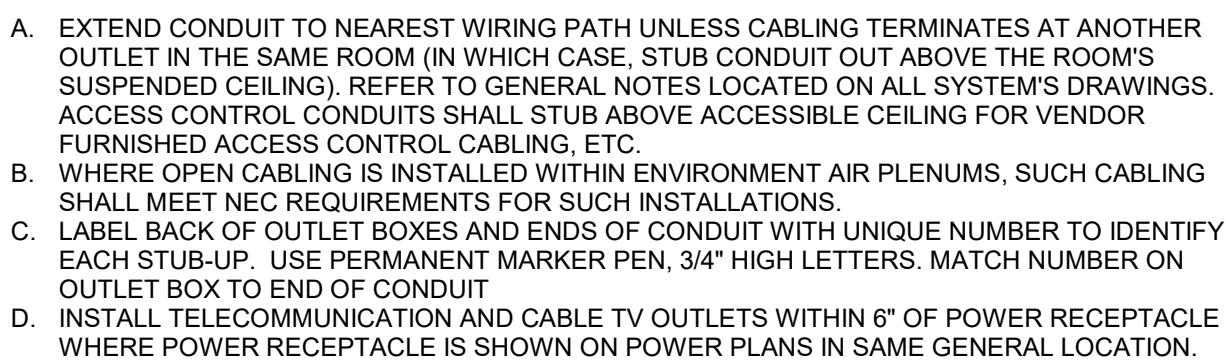
NO SCALE



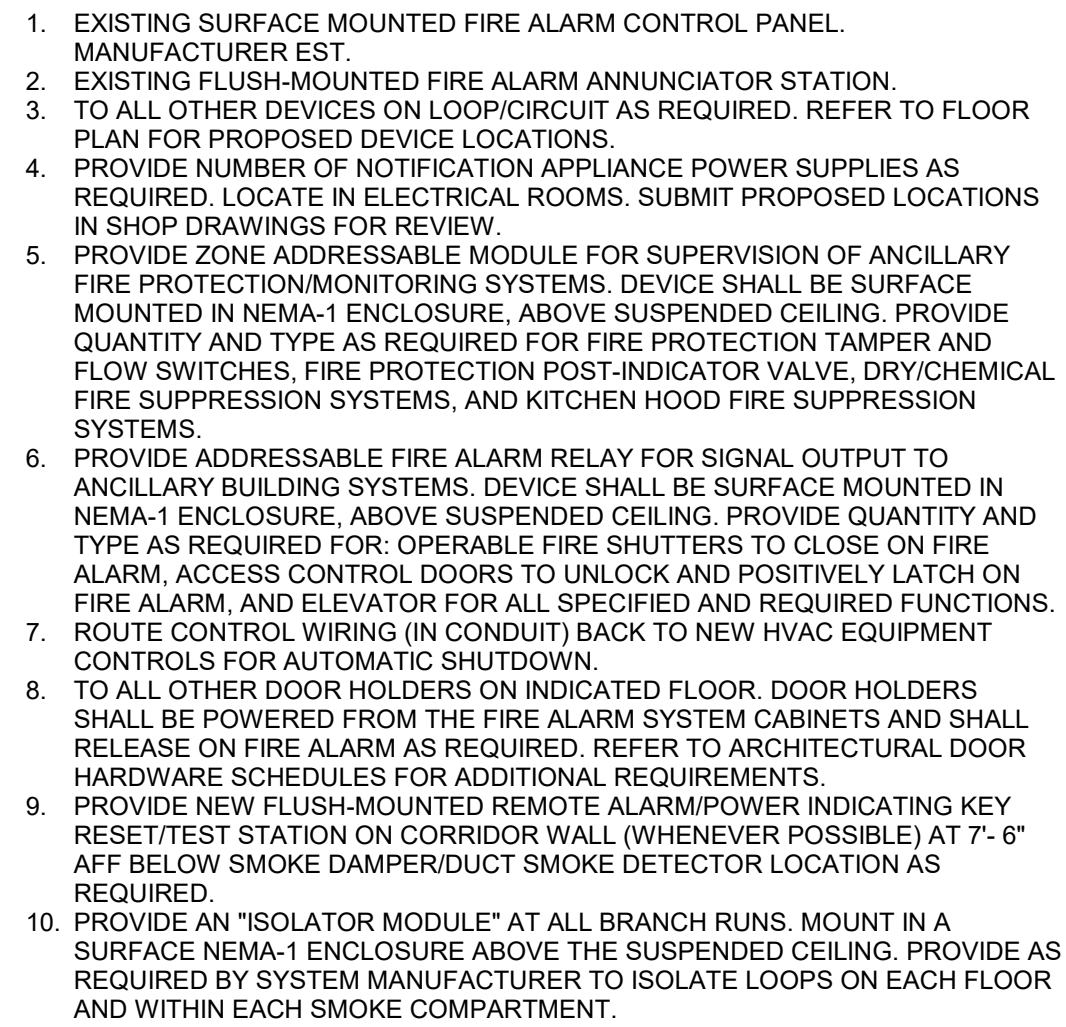
4 TYPICAL WALL DEVICE MOUNTING DETAIL

NO SCALE





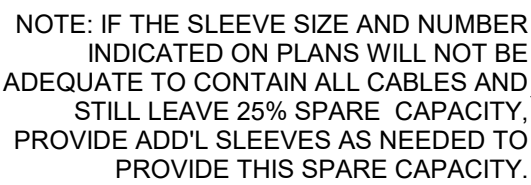
NO SCALE



NO SCALE



NO SCALE



A. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.

B. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

NO SCALE

EXISTING SWITCHBOARD AND WIRING SCHEDULE										
NAME: SWBD M1			BUS RATING: 1A				SPD: Yes			
FED FROM:			VOLTAGE: 480Y/277V/3Ø/4W				MIN. SCOR (KA):			
MOUNTING: FLOOR			MAINS TYPE: 1A.MCB				AVAIL FAULT (KA):			
CKT	LD	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCB	POLES	LOAD	NOTES
1		EXISTING LOAD - KPH	--	--	--	--	400 A	3	0.0	
2		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
3		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
4		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
5		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
6		EXISTING LOAD - DECTRON UNIT	--	--	--	--	400 A	3	0.0	
7		SPACE	--	--	--	--	--	3	--	(100 A)
8		SPACE	--	--	--	--	--	3	--	(100 A)
9		SPACE	--	--	--	--	--	3	--	(100 A)
10		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
11		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
12		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
13		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
14		EXISTING LOAD	--	--	--	--	200 A	3	0.0	
15		SPACE	--	--	--	--	--	3	--	(100 A)
16	RTU		1	(4) #1	#4	1-1/2"	125 A	3	66.5	
17	LD		2	(4) #3/0	#3	Z"	400 A	3	232.1	
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS			
EQUIP		71080 VA	100.00%		71080 VA		TOTAL CONNECTED LOAD: 299 kVA			
HVAC		185516 VA	100.00%		185516 VA		TOTAL ESTIMATED DEMAND: 294 kVA			
LTNG		2514 VA	125.00%		3143 VA		TOTAL CONNECTED CURRENT: 359 A			
REC		19440 VA	75.72%		14720 VA		TOTAL ESTIMATED DEMAND CURRENT: 354 A			
SPACE HEATING		20000 VA	100.00%		20000 VA					
NOTES:										

PANELBOARD AND WIRING SCHEDULE																			
NAME: LD			BUS RATING: 400 A							SPD: No			FEED THRU LUIGS:						
FED FROM: SWBD M1			VOLTAGE: 480Y/277V/3Ø/4W							MIN. SCOR (KA): 18			MULTI-SECTION: No						
MOUNTING: FLUSH			MAINS TYPE: 400A MCB							AVAIL FAULT (KA): 12.6									
CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCB	P	CKT	A	B	C	CKT	P	OCB	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION	
T-GG		(3) #1	#4	1-1/4"	125	3	3	15.6	12.2		2	4	3	60	3/4"	#10	#6	FVAV-10	
LTNG - CORR / OFFICE					20	1	7	1.0	12.2		16.0	12.2	6						
LTNG - CLASSROOM					20	1	9			1.4	12.2		10	3	60	3/4"	#10	#6	
LTNG - EXTERIOR					20	1	11				0.1	12.2	12						
FVAV-06		#10	#10	3/4"	25	1	13	5.3	12.2				14						
SPARE	--	--	--	--	20	1	15			0.0	12.2		16	3	60	3/4"	#10	#6	
SPARE	--	--	--	--	20	1	17				0.0	12.2	18						
SPARE	--	--	--	--	20	1	19	0.0	12.2				20						
SPARE	--	--	--	--	20	1	21			0.0	12.2		22	3	60	3/4"	#10	#6	
SPARE	--	--	--	--	20	1	23				0.0	12.2	24						
SPARE	--	--	--	--	20	1	25	0.0	3.7				26						
SPARE	--	--	--	--	20	1	27			0.0	3.7		28	3	20			VAV-10	
SPARE	--	--	--	--	20	1	29				0.0	3.7	30						
SPARE	--	--	--	--	20	3	33	0.0	3.7				32						
SPARE	--	--	--	--	20	3	35			0.0	3.7		34	3	20			VAV-10	
SPARE	--	--	--	--	20	3	37	0.0	3.7				36						
SPARE	--	--	--	--	20	3	39			0.0	3.7		38						
SPARE	--	--	--	--	20	3	41				0.0	3.7	42						
TOTAL LOAD (kVA):					81.7 kVA					74.6 kVA					75.8 kVA				
TOTAL CURRENT (A):					296 A					269 A					274 A				
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS											
EQUIP		4600 VA		100.00%		4600 VA		TOTAL CONNECTED LOAD: 232 kVA											
HVAC		185516 VA		100.00%		185516 VA		TOTAL ESTIMATED DEMAND: 228 kVA											
LTNG		2514 VA		125.00%		3143 VA		TOTAL CONNECTED CURRENT: 279 A											
REC		19440 VA		75.72%		14720 VA		TOTAL ESTIMATED DEMAND CURRENT: 274 A											
SPACE HEATING		20000 VA		100.00%		20000 VA													
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																			

PANELBOARD AND WIRING SCHEDULE																		
NAME: GG				BUS RATING: 225 A							SPD: No				FEED THRU LUGS:			
FED FROM: T-GG				VOLTAGE: 208Y/120V/3Ø/4W							MIN. SCOR (KA): 10				MULTI-SECTION: No			
MOUNTING: FLUSH				MAINS TYPE: 225A MCB							AVAIL FAULT (KA): 4.5							
CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCB	P	CKT	A	B	C	CKT	P	OCB	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - OFFICE D108					20	1	1	0.9	0.4		2	1	20					REC - ROOFTOP
REC - OFFICE D109					20	1	3		0.9	0.7		4	1	20				EF-1
REC - OFFICE D110					20	1	5			0.9	0.5	6	1	20				NAC PANEL
REC - CORR D100					20	1	7	1.4	0.2			8	1	20				COPPER
REC - CLASS 1 D101					20	1	9		1.1	0.5		10	1	20				REC - ADMIN
REC - CLASS 1 D101					20	1	11			1.3	2.5	12	2	35	#10	#8		EWH-1
REC - CLASS 2 D102					20	1	13	1.1	2.5									
REC - CLASS 2 D102					20	1	15			1.3	2.5		16					
REC - CLASS 3 D103					20	1	17			1.1	2.5	18	2	35	#10	#8		EWH-1
REC - CLASS 3 D103					20	1	19	1.3	2.5				20					
REC - EWC					20	1	21			0.7	2.5		22	2	35	#10	#8	EWH-1
DOOR HARDWARE					20	1	23				1.0	2.5	24					
REC - FUTURE CLASSROOM					20	1	25	1.1	2.5				26	2	35	#10	#8	EWH-1
REC - FUTURE CLASSROOM					20	1	27			0.7	0.7		28	1	20			EF-2
REC - FUTURE CLASSROOM					20	1	29				0.9	1.0	30	1	20			VAV-04
REC - FUTURE CLASSROOM					20	1	31	0.9	0.0				32	1	20	--	--	SPARE
REC - FUTURE CLASSROOM					20	1	33			0.9	0.0		34	1	20	--	--	SPARE
REC - FUTURE CLASSROOM					20	1	35				0.9	0.0	36	1	20	--	--	SPARE
REC - FUTURE CLASSROOM					20	1	37	0.9	0.0				38	1	20	--	--	SPARE
REC - FUTURE CLASSROOM					20	1	39			0.9	0.0		40	1	20	--	--	SPARE
REC - FUTURE CLASSROOM					20	1	41				0.9	0.0	42	1	20	--	--	SPARE
				TOTAL LOAD (kVA):				15.6 kVA		13.4 kVA		16.0 kVA						
				TOTAL CURRENT (A):				133 A		112 A		136 A						
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS														
EHVAC	4603 VA	100.00%	4603 VA	TOTAL CONNECTED LOAD: 45 kVA														
HWAC	1000 VA	100.00%	1000 VA	TOTAL ESTIMATED DEMAND: 40 kVA														
REC	19440 VA	75.72%	14720 VA	TOTAL CONNECTED DEMAND: 125 A														
SPACE HEATING	20000 VA	100.00%	20000 VA	TOTAL ESTIMATED DEMAND CURRENT: 112 A														
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																		