

JOHNSON COUNTY RECYCLING CENTER

100% CONSTRUCTION DOCUMENT
04/22/2024



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0 N. GRAHAM ROAD, FRANKLIN, IN 46131

PROJECT LOCATION



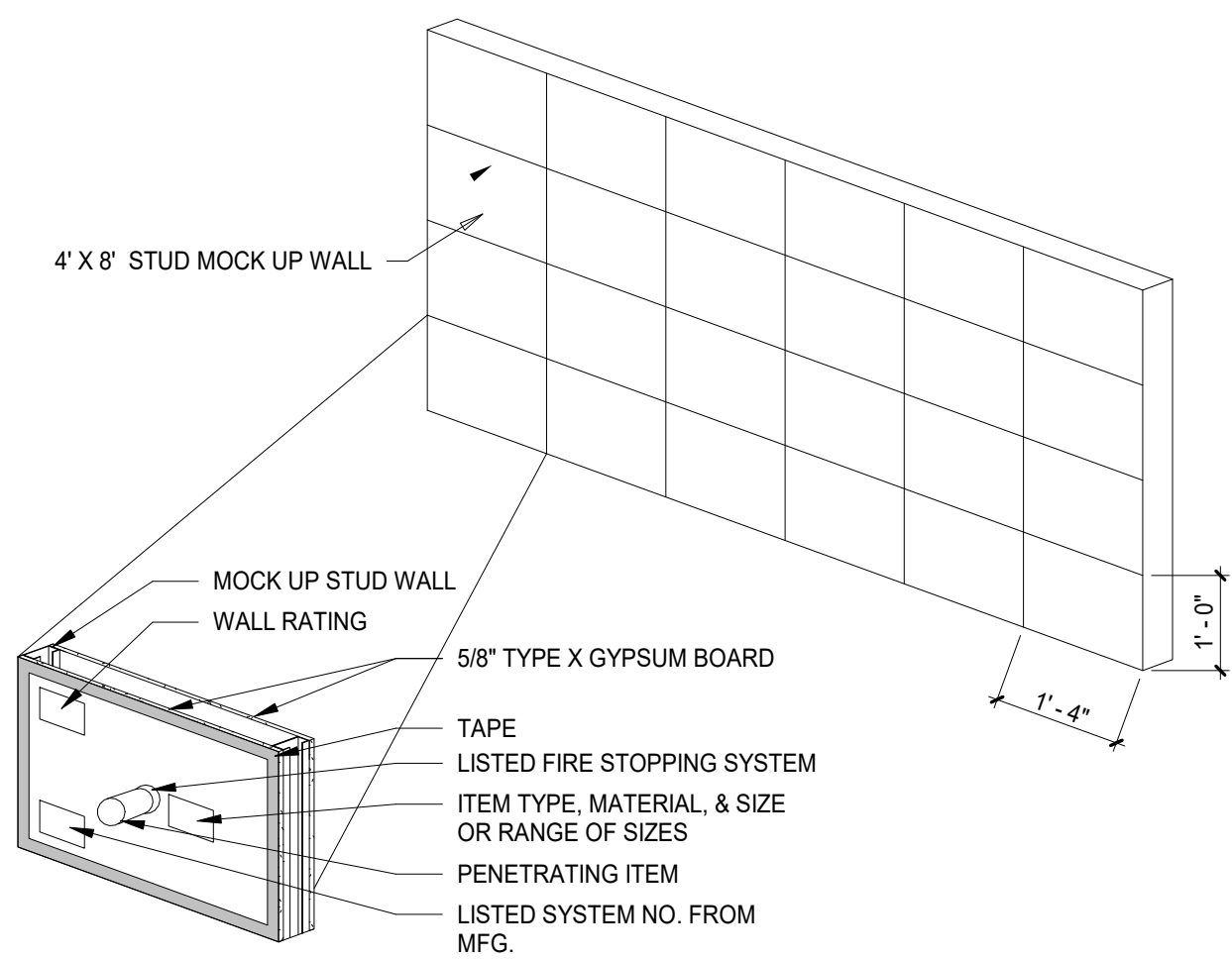
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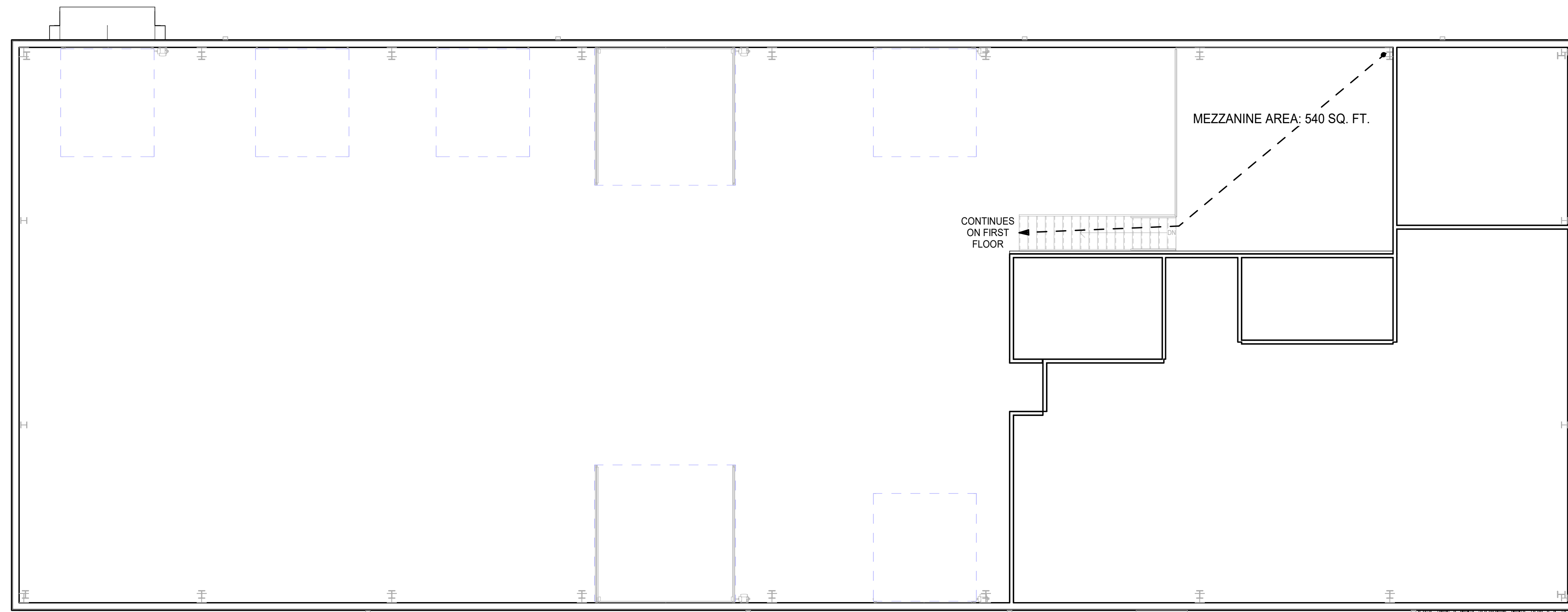
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DATE: 04/22/2024
DRAWN BY: Author

COVER

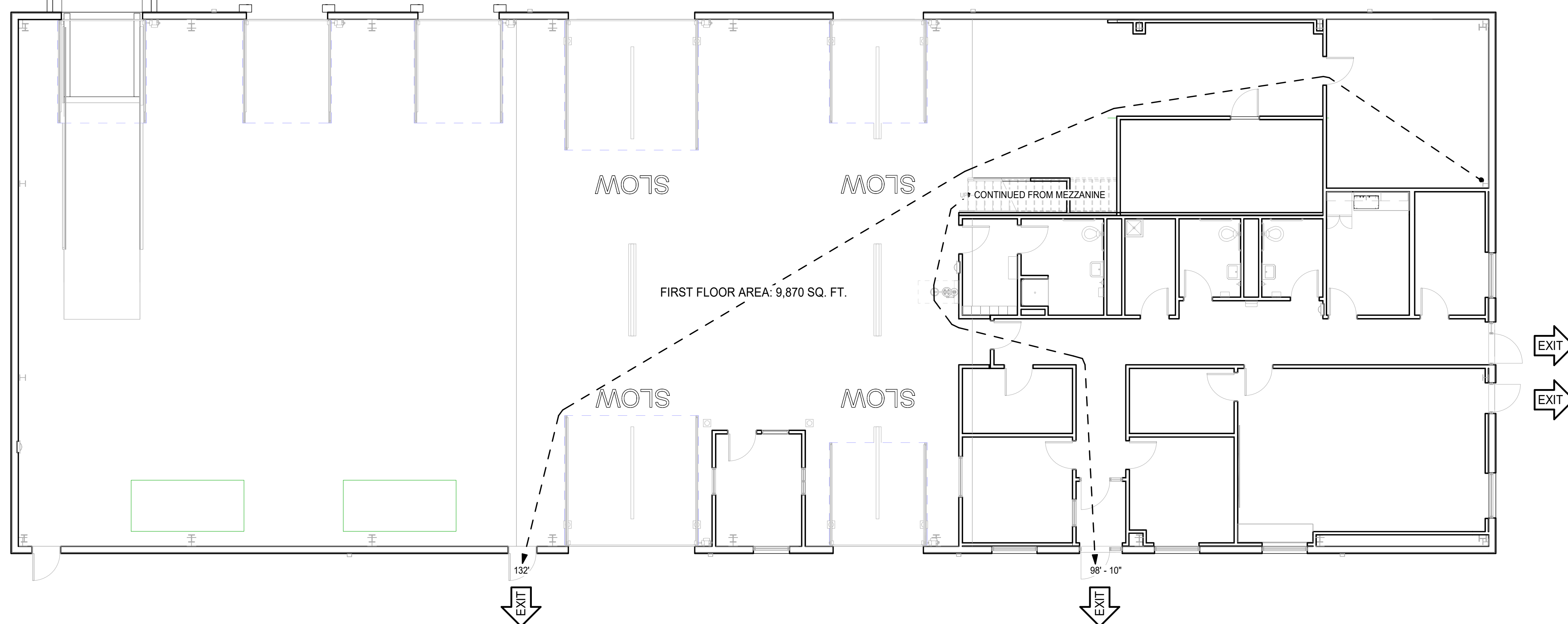
G000



1 FIRESTOPPING PENETRATION MOCKUP PANEL
SCALE: 1/2" = 1'-0"



4 LIFE SAFETY PLAN - MEZZANINE
SCALE: 1/8" = 1'-0" REF. 1 / A201



2 LIFE SAFETY PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0" REF. 1 / A201

**CODE SUMMARY - JOHNSON COUNTY
RECYCLING CENTER**

Applicable Codes:	General Administrative Division (GAR) 2014 Indiana Building Code (IBC) 2014 Indiana Fire Code (IFC) 2014 Indiana Mechanical Code (IMC) 2012 Indiana Plumbing Code (IPC) 2009 Indiana Electrical Code (IEC) ICC/ANSI A-117.1 Standard, 2009 Edition *Code referenced unless otherwise noted
Project Scope:	Construction of a new recycling center for Johnson County. The building will have 9,870 sq ft on the main level, and will have a storage mezzanine of 540 sq ft.
Occupancy Classification:	Storage and sorting of recycled materials - hazardous materials will be maintained within allowable materials - S-1 Occupancy [211.2.4.14.2.5] Office and administrative - B Occupancy [304.1]
Construction Type:	Type VB Construction permitted based upon allowable area [503.1]
Allowable Area	Tabular Area: 9,000 sq ft Table 503 Sprinkler Increase: 27,000 sq ft Frontage Increase: + 6,750 sq ft 506.2 Total allowable area: 42,750 sq ft Actual area 1 st Floor: 9,870 sq ft
Building Elements	Building elements, including bearing walls, mezzanine construction, and roof structure are permitted to be of non-rated combustible construction [Table 601] Exterior walls are permitted to be of non-rated, combustible construction, where 10 feet of fire separation distance [Table 602]
Incidental Use Areas	None applicable to this project [Table 509]
Exit Access Travel Distance:	The maximum travel distance to an exterior exit is permitted to be a maximum of 250 feet for S-1 areas, and 300 feet for B Occupancy areas [1016.2]
Panic Hardware	Panic hardware not required for either an S-1 Occupancy or a B Occupancy [1008.1.10]
Corridor Construction	Corridor is permitted to be non-rated construction based upon automatic sprinkler protection throughout the building [1018.1]
Mezzanine Egress	The mezzanine is permitted to have a single means of egress based upon a common path of egress travel not exceeding 100 feet, and an occupant load of 29 or less [1015.1]
Automatic Sprinklers:	Automatic sprinkler protection will be provided throughout the building



REVISIONS:	#	Date	Disc.

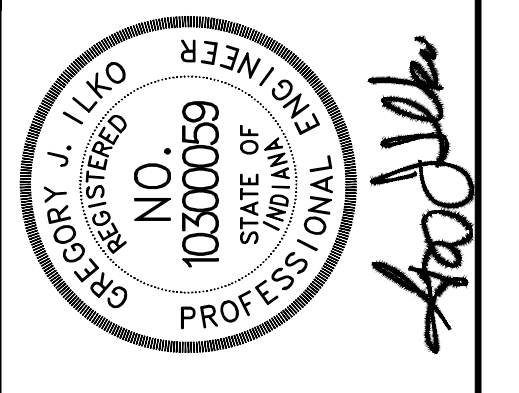
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LIFE SAFETY PLAN - FIRST FLOOR

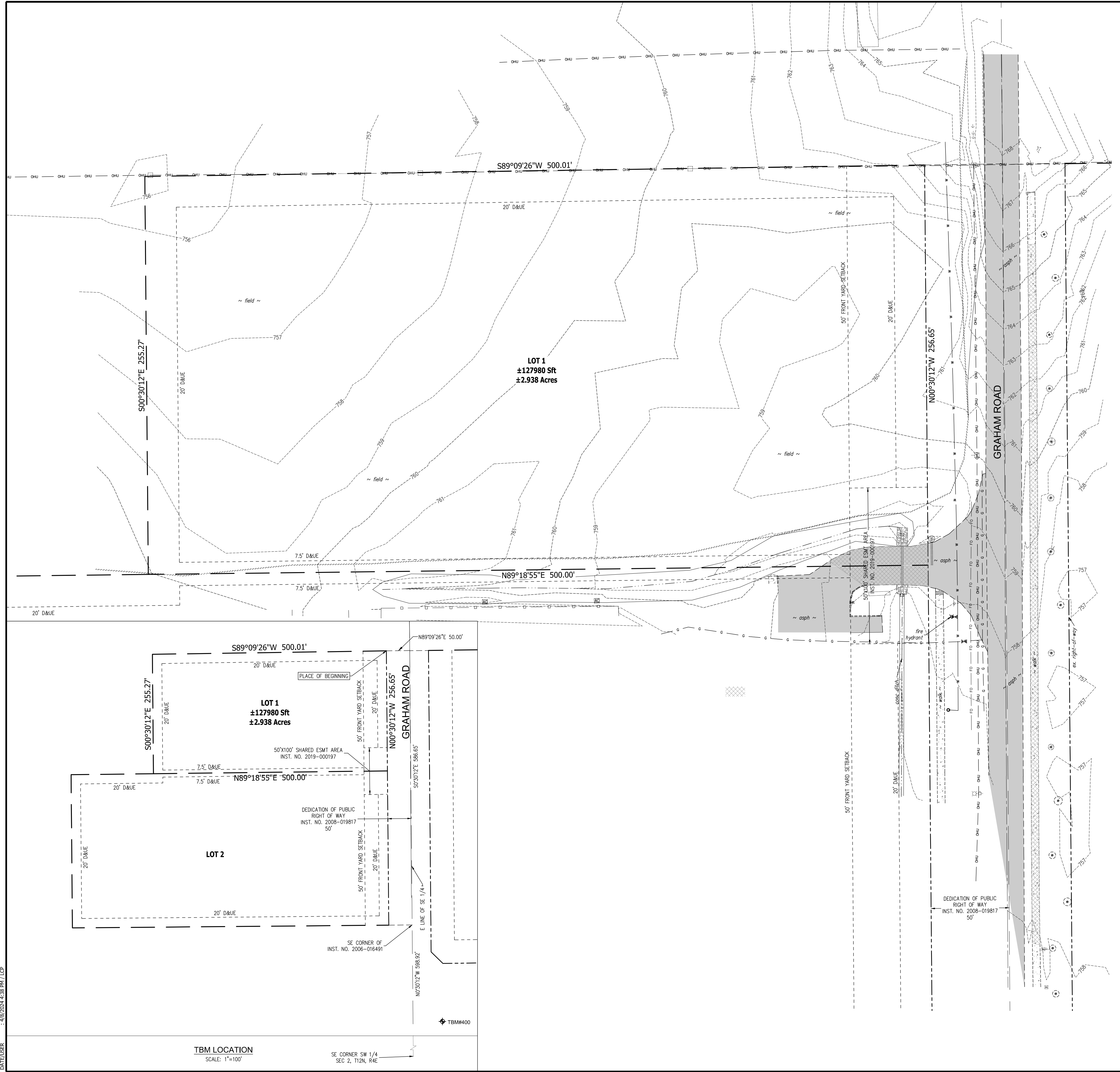
TOPOGRAPHICAL SURVEY

JOHNSON COUNTY RECYCLE CENTER

JOB NO.	DATE	DESIGNED	DRAWN	CHECKED	BTW	GJI
	APRIL 11, 2024					



NO.	DATE	REVISIONS	BY	APPR.
1				
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EXISTING LEGEND

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
GUY WIRE	RIGHT-OF-WAY
WATER VALVE	EASEMENT
FIRE HYDRANT	ADJOINER LINE
WATER METER	PAVEMENT LINE
GAS VALVE	FIELD LINE
SIGN	FENCE
MAILBOX	DITCH
TEMP. BENCHMARK	WATER LINE
MONUMENT FOUND	GAS LINE
ASPHALT	FIBER OPTIC LINE
GRAVEL	OVERHEAD UTILITY LINE
CONCRETE	SANITARY SEWER W/MANHOLE
REMOVAL/DEMOLISH	STORM SEWER W/ END SECTION

TOPOGRAPHICAL NOTES

- CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND IS NOT IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 180801045E, WHICH BEARS AN EFFECTIVE DATE OF JANUARY 29, 2021.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK
 DESIGNATION - X 13
 FID - KADDIS
 STATE/COUNTY - IN/MORGAN
 USGS QUAD - MOOREVILLE EAST (1980)
 VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
 1.2 MI N FROM WAVERLY, IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY, A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.
 RECOVERY NOTE BY IN DEPT OF NAT RES 1985
 NEW DESC - AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.
 ELEV. = 685.94 (NAVD 88)
 TRM #400
 CUT 'BOX' ATOP SW MOST CORNER OF CONC HEADWALL @ SE QUAD OF 'UNVILLE WAY' & 'GRAHAM RD'
 ELEV. = 754.94

LEGAL DESCRIPTION

INSTRUMENT NO. 2023-000852
 LOT NUMBERED ONE IN THE UNVILLE COMMERCIAL MINOR SUBDIVISION AS RECORDED IN PLAT CABINET E, SLIDE 3598 AND AS INSTRUMENT NO. 2019-000197 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

UTILITY CONTACTS

Note: Listed below are the Indiana Underground Plant Protection Services Contacts. Others not listed may exist. The underground utilities shown have been located from field survey information and existing drawings. The primary meter for gas service, but the underground utility contacts of each utility in the area, other than the service of gas service, are not shown. Utility lines are shown as they appear on the ground. The surveyor has not physically located the underground utilities.

UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MCI	DEAN BOYERS	469-886-4238	investigators@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	melissa.teague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DEKARD	812-253-2196	mwd@metrofiber.net
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-662-2007	jessica.turner@duke-energy.com
SANITARY	CITY OF FRANKLIN DPW	EVAN HART	317-412-8450	ehart@franklin.in.gov
WATER	INDIANA AMERICAN WATER COMPANY	TRACY WHITE	317-885-2426	tracy.white@iamwater.com
GAS	CENTERPOINT ENERGY	JON EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BYRNE PURSIFULL	317-736-3650	bpursifull@franklin.in.gov



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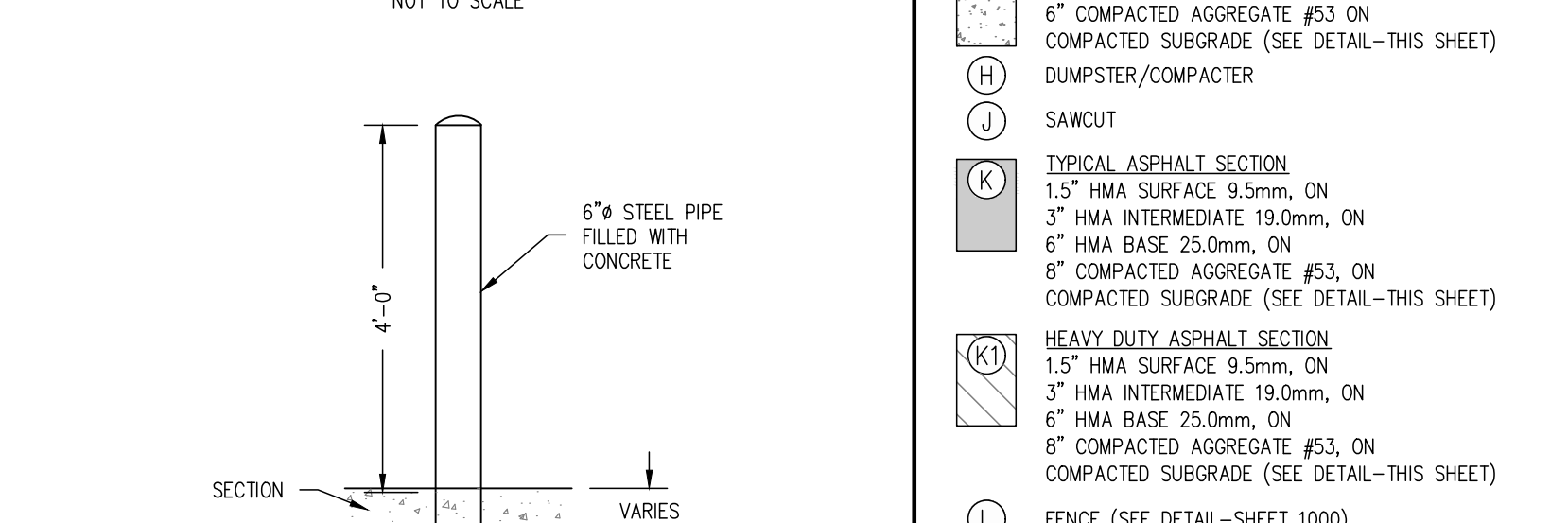
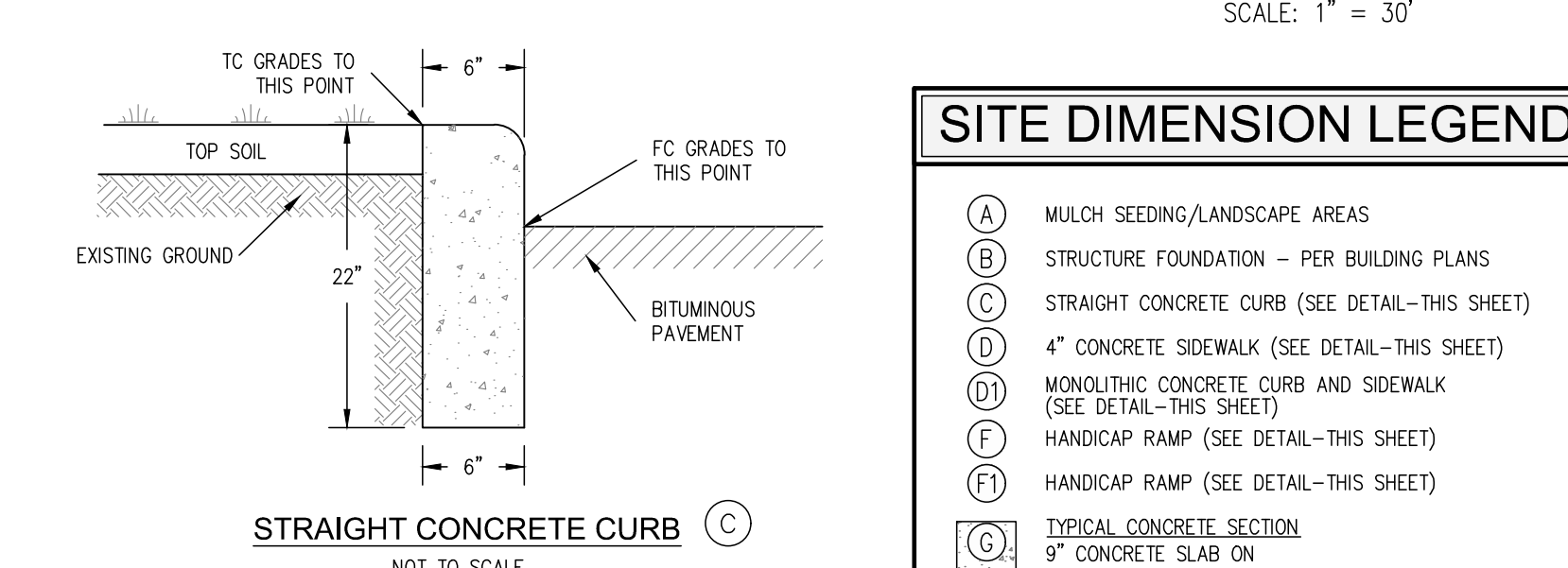
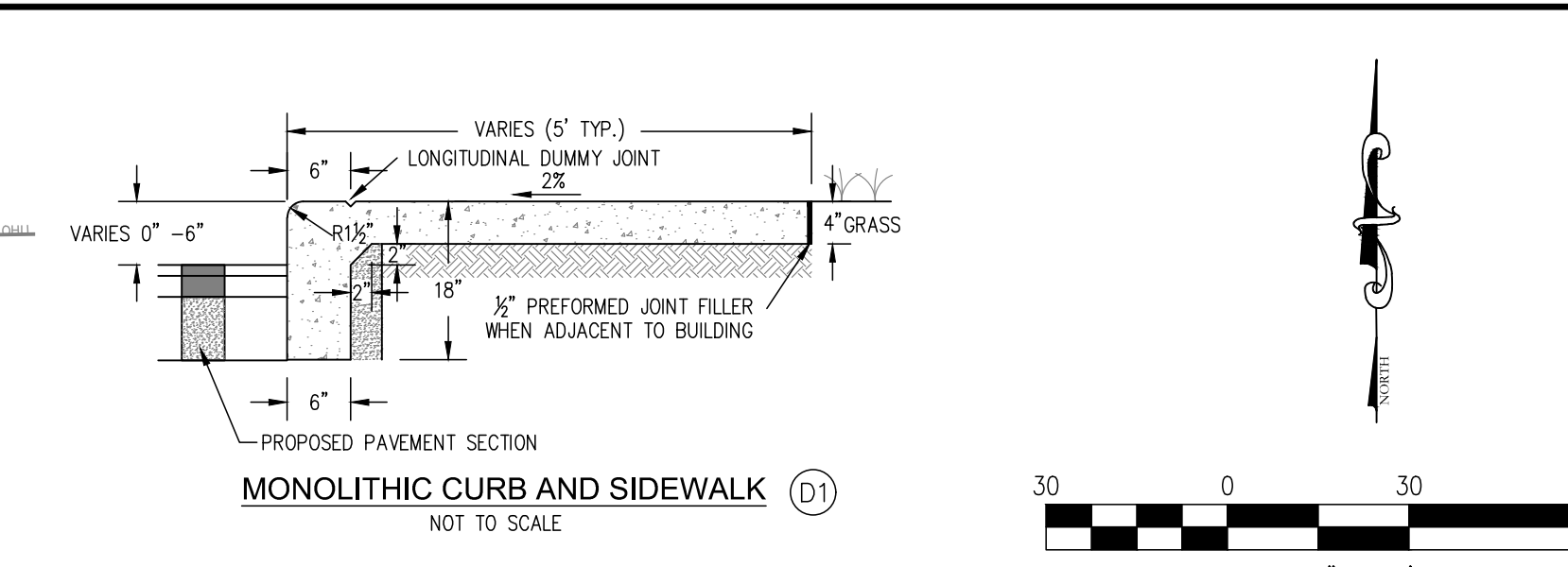
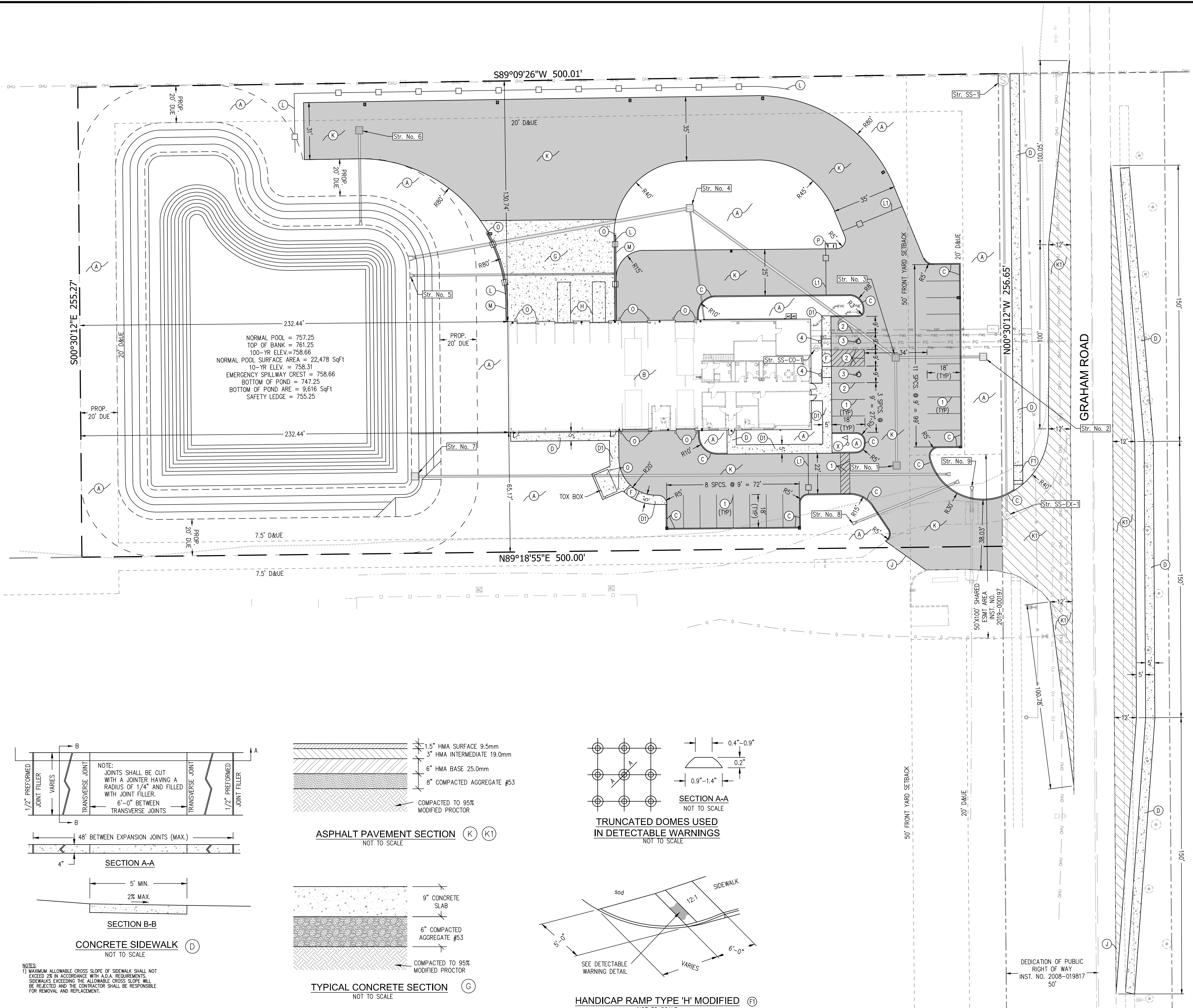
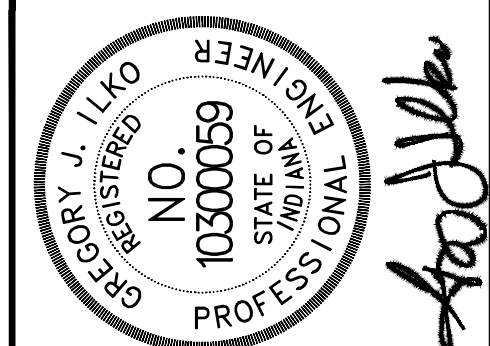
TBM LOCATION
 SCALE: 1"=100'

SE CORNER SW 1/4
 SEC 2, T12N, R4E

SITE DIMENSION PLAN

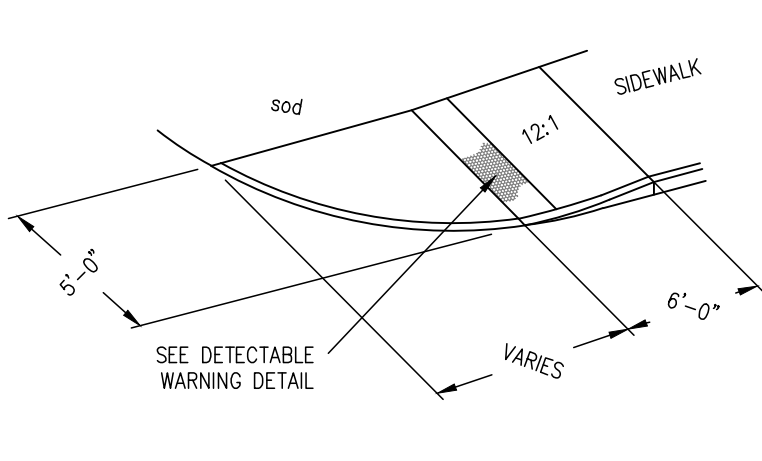
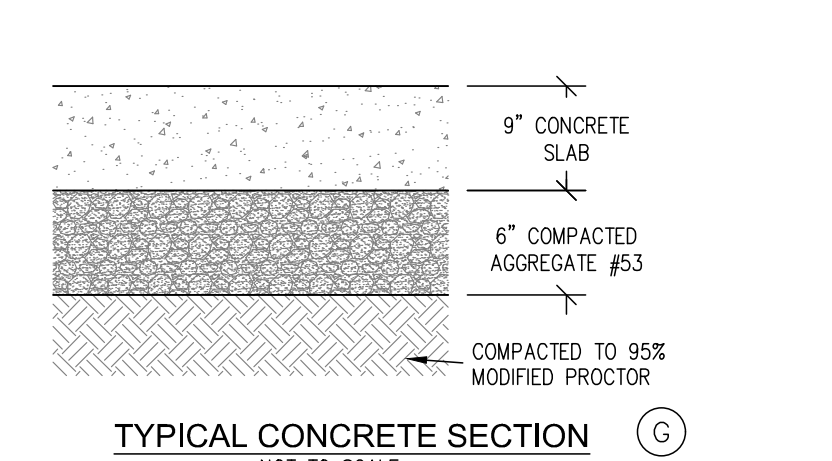
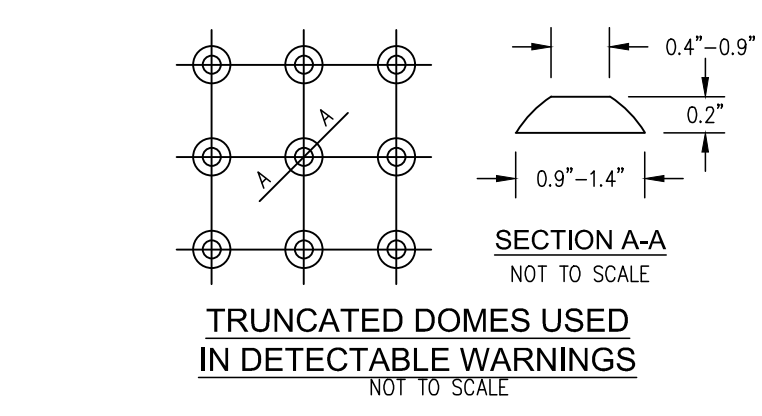
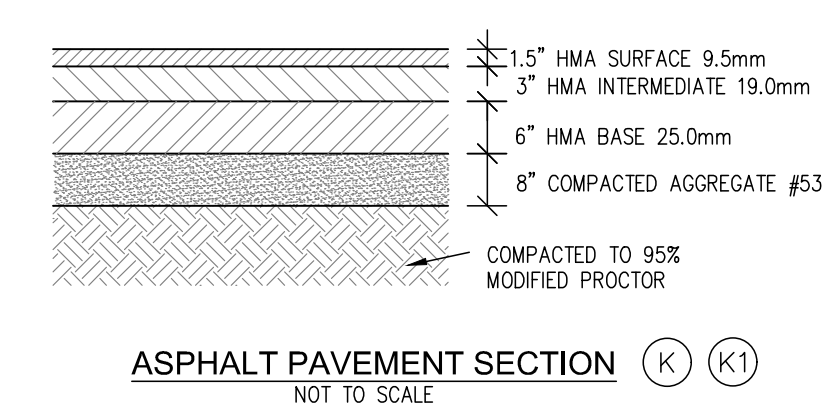
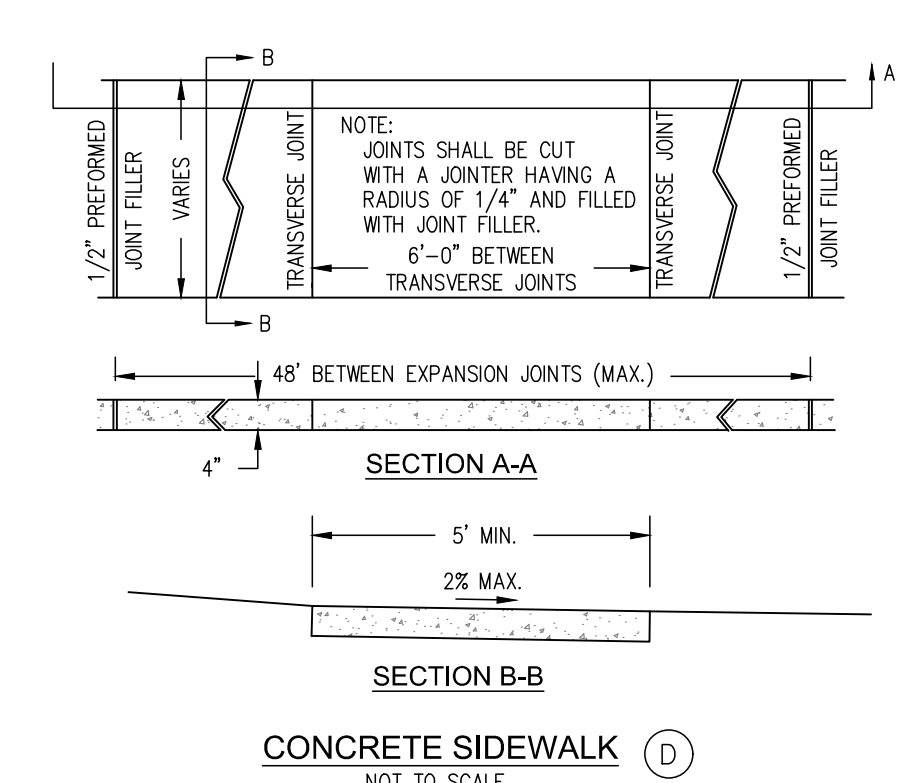
JOHNSON COUNTY RECYCLE CENTER

JOB No.	BTW	CHECKED	BTW	CU
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SITE DIMENSION LEGEND

- (A) MULCH SEEDING/LANDSCAPE AREAS
- (B) STRUCTURE FOUNDATION - PER BUILDING PLANS
- (C) STRAIGHT CONCRETE CURB (SEE DETAIL-THIS SHEET)
- (D) 4" CONCRETE SIDEWALK (SEE DETAIL-THIS SHEET)
- (D1) MONOLITHIC CONCRETE CURB AND SIDEWALK (SEE DETAIL-THIS SHEET)
- (E) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (F) HANDICAP RAMP (SEE DETAIL-THIS SHEET)
- (G) TYPICAL CONCRETE SECTION
9" CONCRETE SLAB ON
6" COMPACTED AGGREGATE #53 ON
COMPACTED SUBGRADE (SEE DETAIL-THIS SHEET)
- (H) DUMPSTER/COMPACTER
- (I) SAWCUT
- (K) TYPICAL ASPHALT SECTION
1.5" HMA SURFACE 9.5mm, ON
3" HMA INTERMEDIATE 19.0mm, ON
6" HMA BASE 25.0mm, ON
8" COMPACTED AGGREGATE #53, ON
COMPACTED SUBGRADE (SEE DETAIL-THIS SHEET)
- (K1) HEAVY DUTY ASPHALT SECTION
1.5" HMA SURFACE 9.5mm, ON
3" HMA INTERMEDIATE 19.0mm, ON
6" HMA BASE 25.0mm, ON
8" COMPACTED AGGREGATE #53, ON
COMPACTED SUBGRADE (SEE DETAIL-THIS SHEET)
- (L) FENCE (SEE DETAIL-SHEET 1000)
- (L1) SWING GATE (DETAIL PER OWNER)
- (M) RETAINING WALL (SEE DETAIL-SHEET 1000)
- (N) BOLLARD (SEE DETAIL-THIS SHEET)
- (P) BICYCLE RACK (SEE DETAIL-THIS SHEET)
- (X) FLAG POLE PER OWNER
- (1) LINE, PAINTED, SOLID WHITE, 4"
- (2) LINE, PAINTED, SOLID BLUE, 4"
- (3) HANDICAP SYMBOL, PAINTED, SOLID BLUE, 4"
- (4) ADA SIGNAGE (SEE DETAIL THIS SHEET)



NOTES
1) MAXIMUM ALLOWABLE CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2% IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
SIDEWALKS EXCEEDING THE ALLOWABLE CROSS SLOPE WILL BE REJECTED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT.

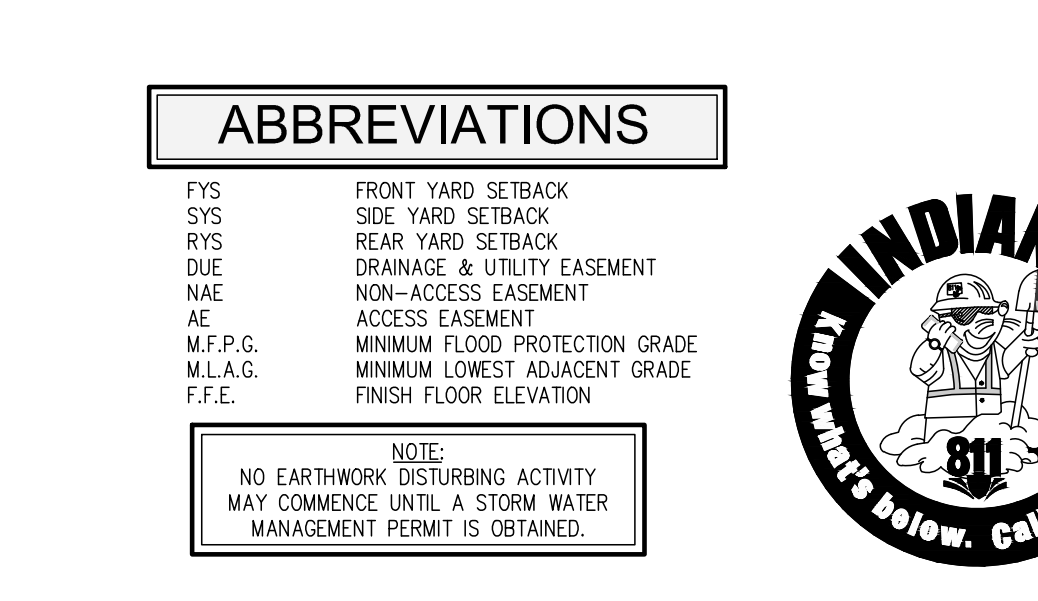
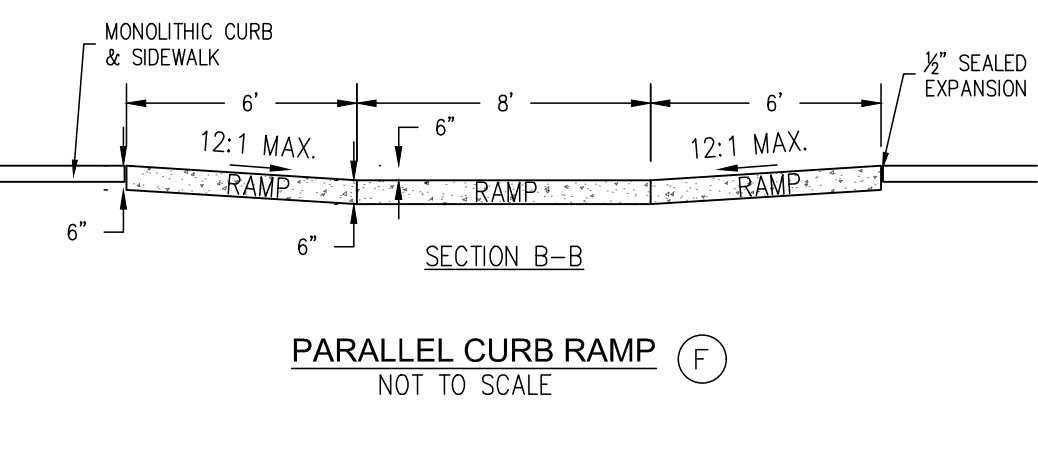
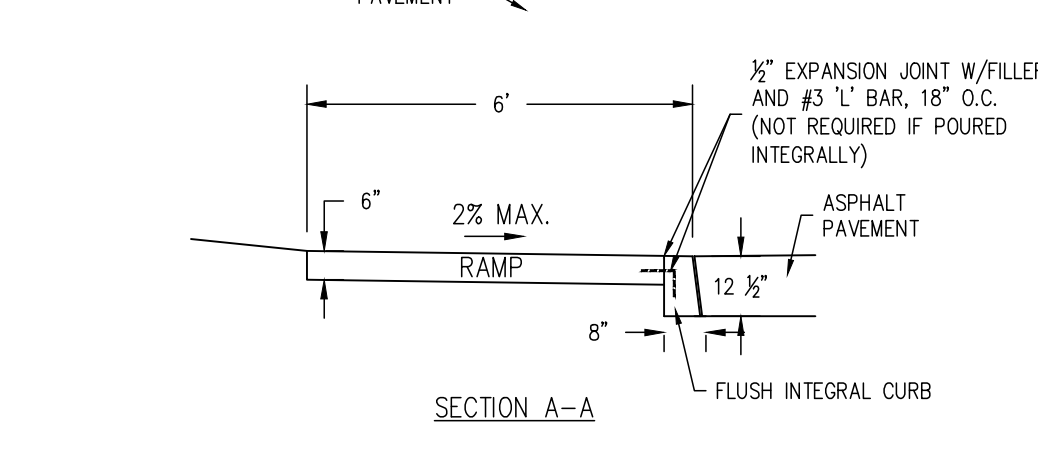
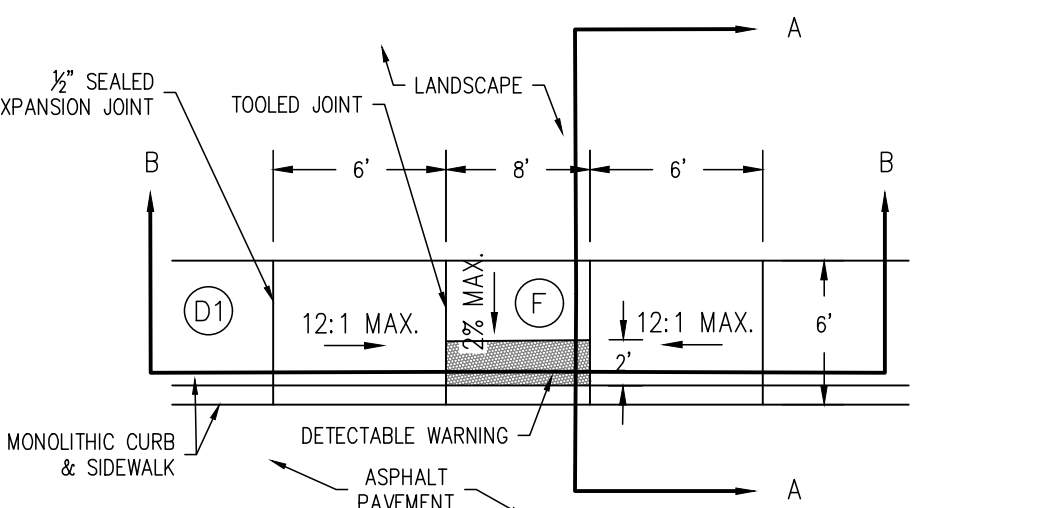
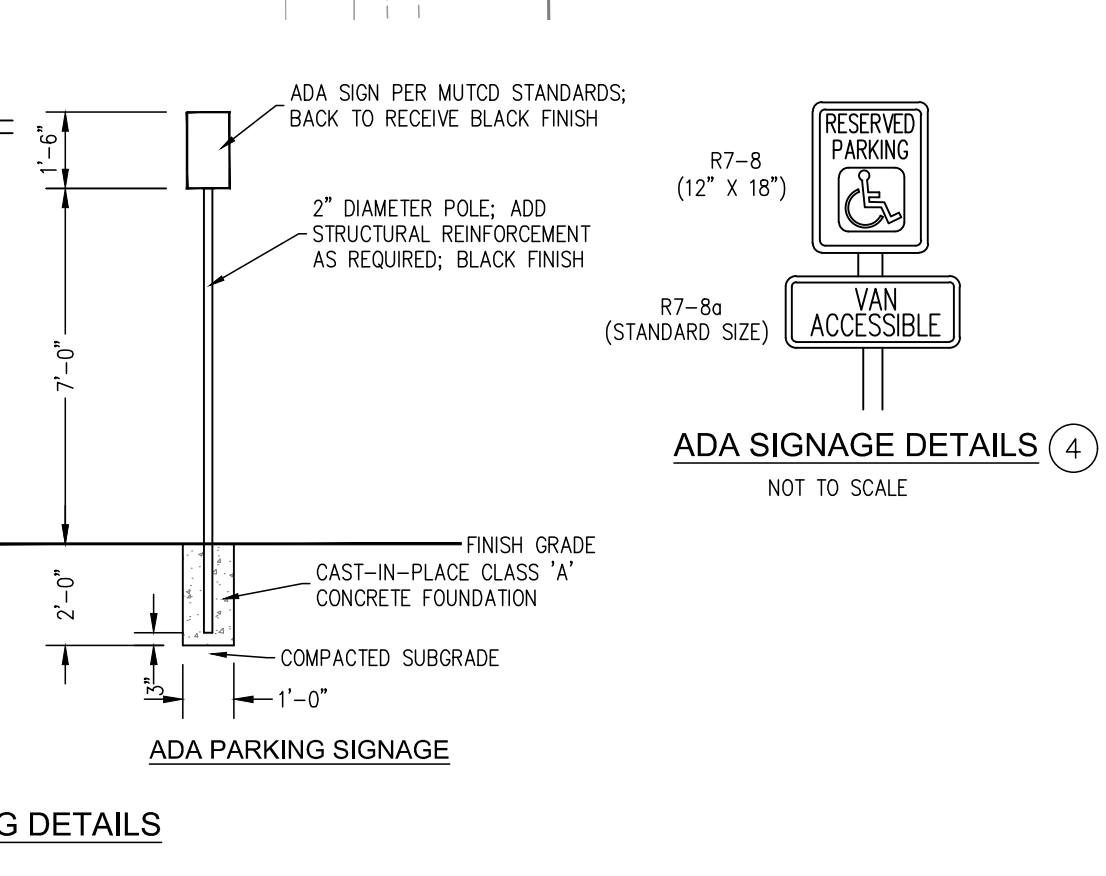
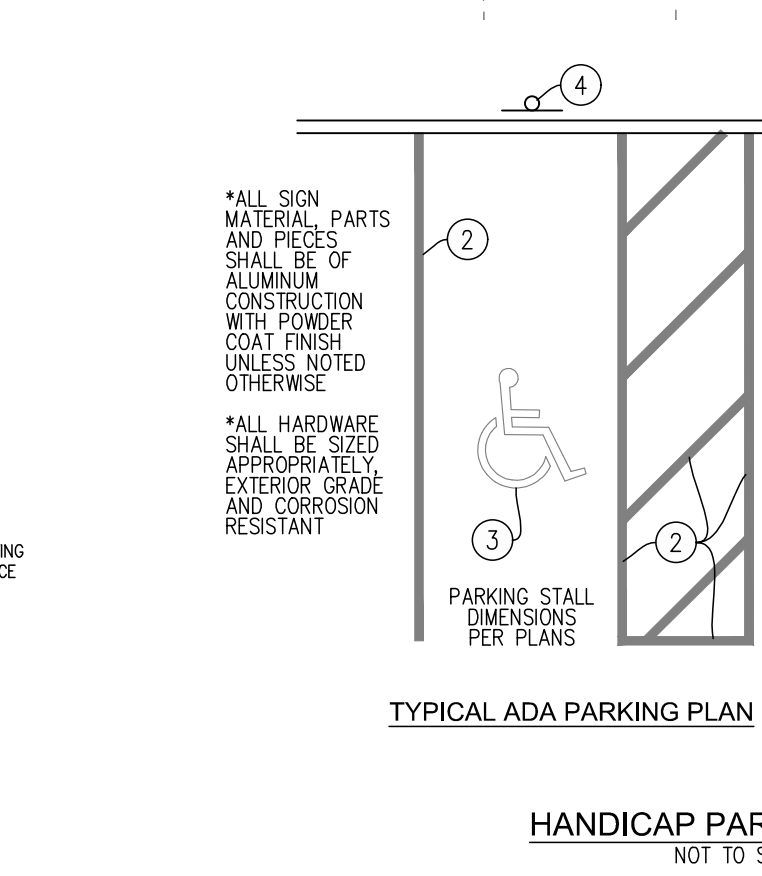
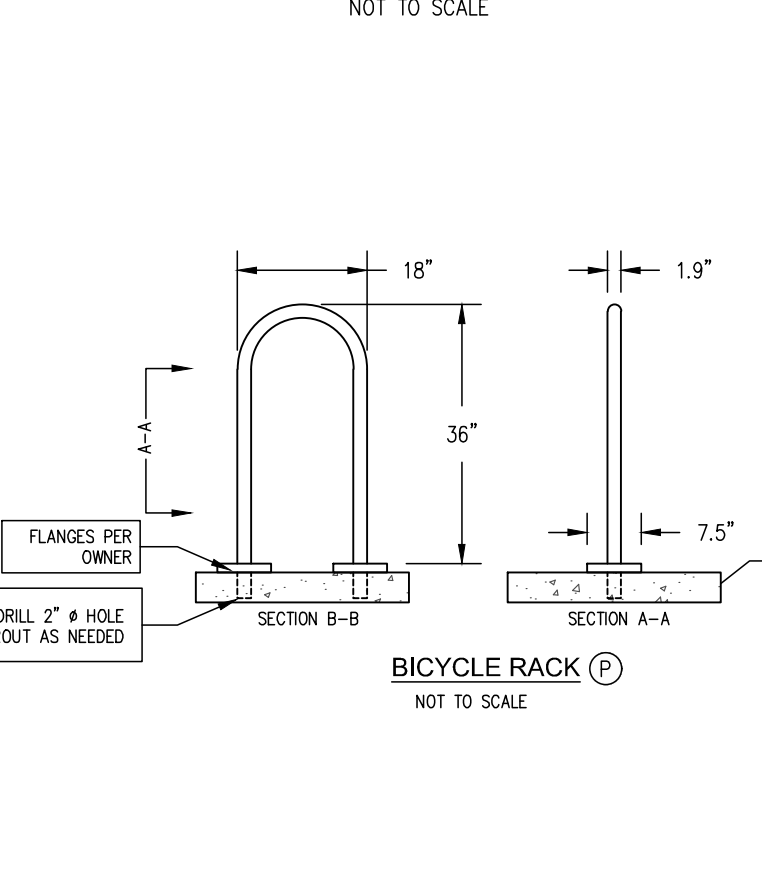
SITE DIMENSION NOTES

- CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LINE STABILIZATION OF SUBGRADE IS NECESSARY.
- ALL RADIUS DIMENSIONS ARE TO THE BACK OF PROPOSED CURB OR EDGE OF PAVEMENT.
- SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRIERS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND APPLICABLE UTILITY COMPANIES FOR CABLE, ELECTRIC, GAS, AND TELEPHONE SERVICE INSTALLATIONS.
- EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED, IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
- PROOF ROLL OF PAVEMENT SECTIONS IN THE R/W (SUBGRADE AND STONE BASE) SHALL BE PERFORMED AND SHALL BE WITNESSED BY CITY ENGINEERING STAFF. CONTACT CITY OF FRANKLIN ENGINEERING AT LEAST 48 HOURS PRIOR TO PERFORMING PROOF ROLLS.

NOTE: MAXIMUM ALLOWABLE CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2% IN ACCORDANCE WITH A.D.A. REQUIREMENTS. SIDEWALKS EXCEEDING THE ALLOWABLE MAX. WILL BE REJECTED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT.

PARKING ANALYSIS

RECYCLING FACILITY	=	8 TOTAL
TOTAL EMPLOYEES	=	1 SPCS/EMP.
REQUIRED RATIO	=	512 SFT.
OFFICE SPACE	=	1 SPC./250 SFT.
REQUIRED RATIO	=	11 SPACES
TOTAL REQUIRED SPACES	=	23 SPACES
STANDARD PARKING SPACES	=	2 SPACES
HANDICAP ACCESSIBLE SPACES	=	2 SPACES
TOTAL PROPOSED PARKING SPACES	=	25 SPACES

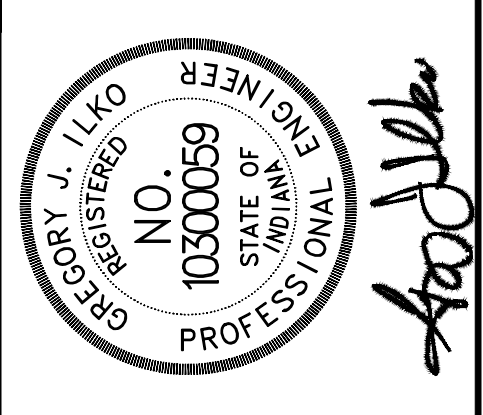


ABBREVIATIONS

FYS	FRONT YARD SETBACK
SYS	SIDE YARD SETBACK
RYS	REAR YARD SETBACK
DUE	DRAINAGE & UTILITY EASEMENT
NAE	NON-ACCESS EASEMENT
AE	ACCESS EASEMENT
M.F.P.G.	MINIMUM FLOOD PROTECTION GRADE
M.L.A.G.	MINIMUM LOWEST ADJACENT GRADE
F.F.E.	FINISH FLOOR ELEVATION

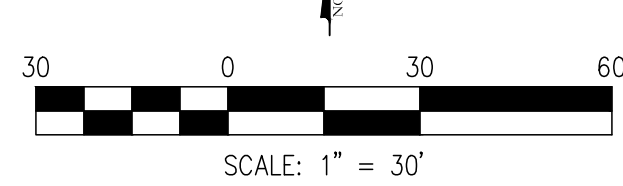
NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



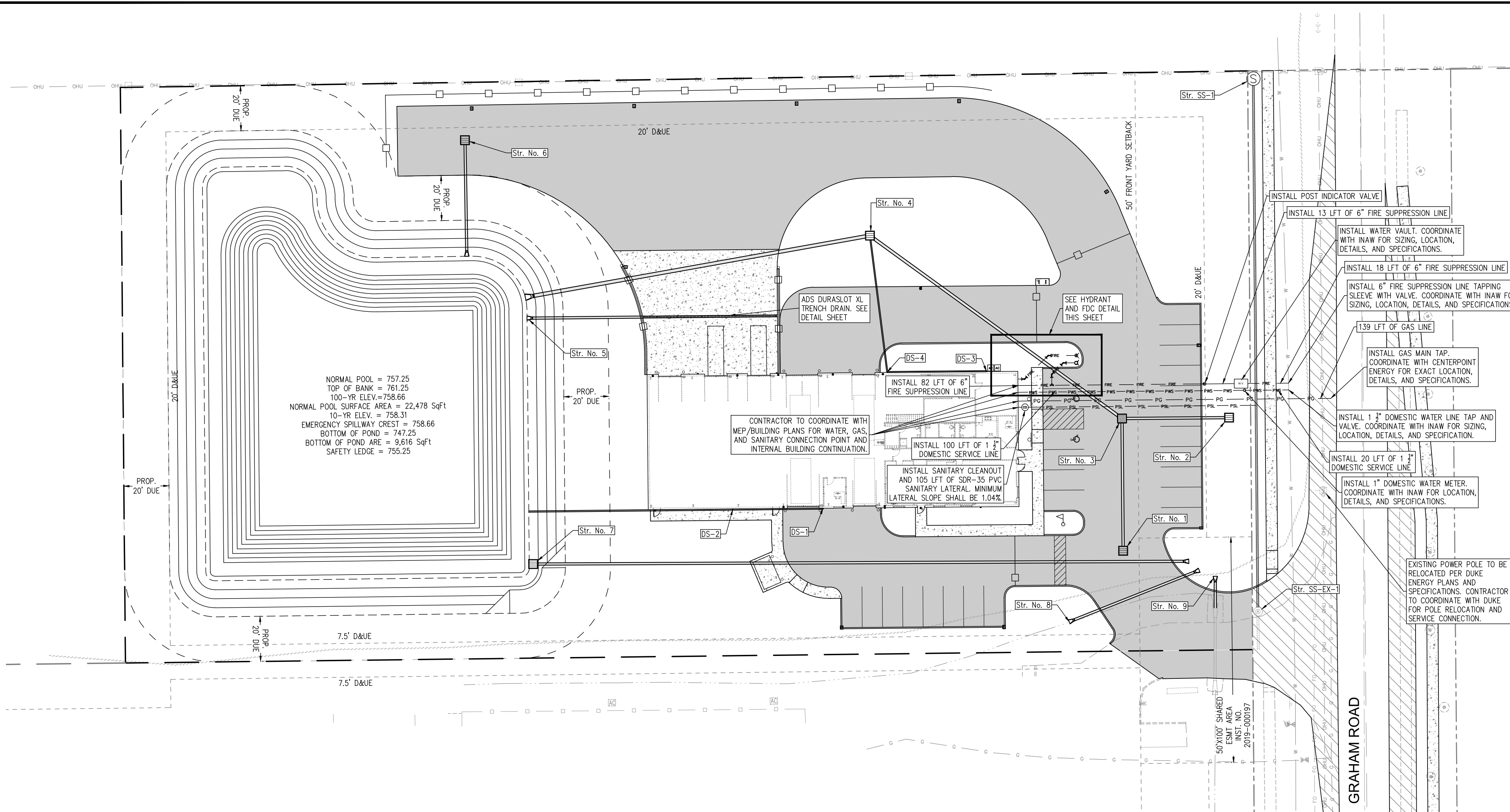


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DATE		APPROVED	GU
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DATE		DRAWN	BTJ
DATE		LMC	

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
GUY WIRE	RIGHT-OF-WAY
WATER VALVE	EASEMENT
FIRE HYDRANT	ADJOINER LINE
WATER METER	PAVEMENT LINE
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	SANITARY SEWER W/MANHOLE
	STORM SEWER W/ END SECTION

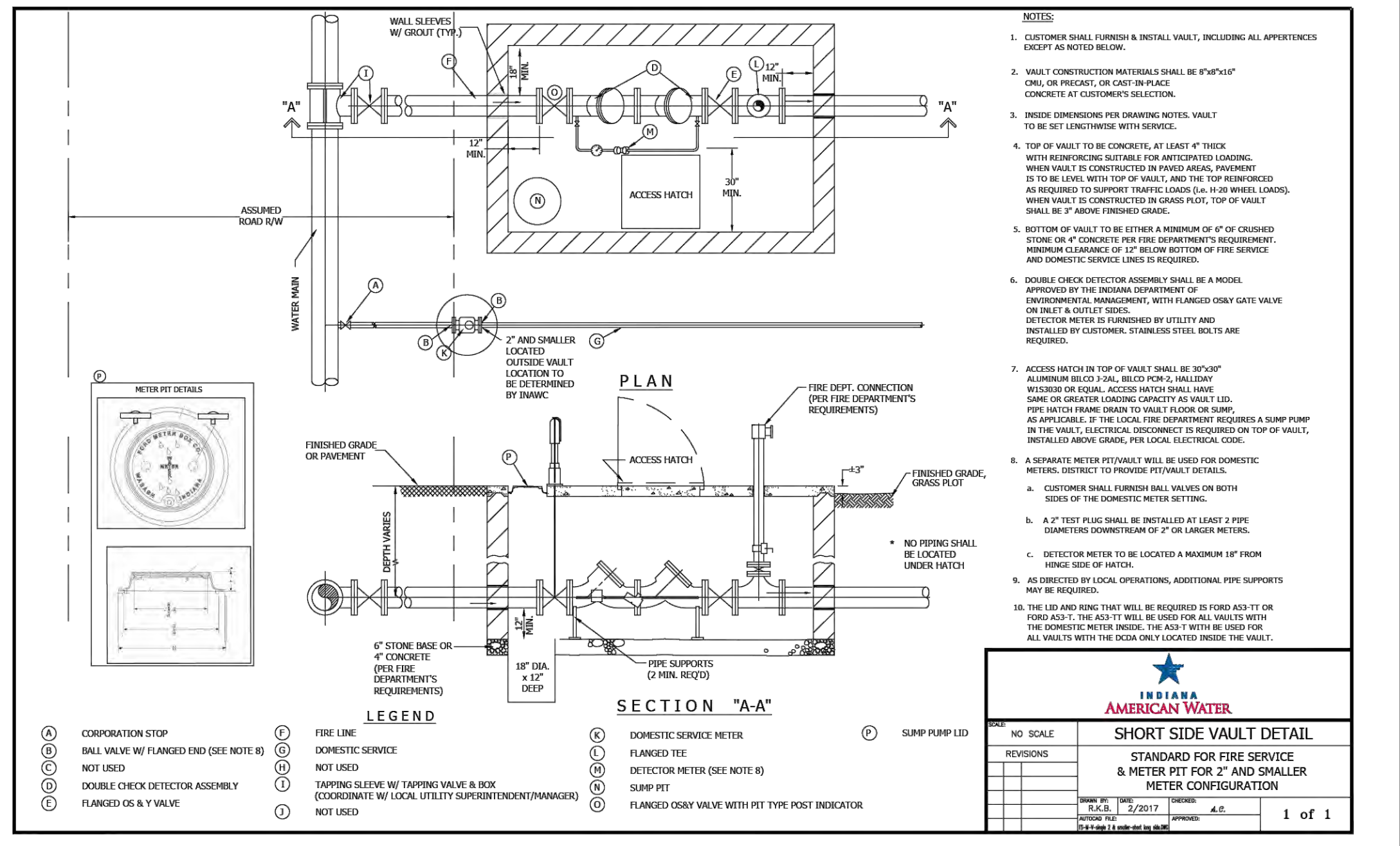


STORM SEWER STRUCTURE TABLE	STORM SEWER STRUCTURE TABLE	STORM SEWER STRUCTURE TABLE	SANITARY SEWER STRUCTURE TABLE
STR. NO. 1 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 59 LFT OF 12" RCP @ 0.25% RIM=760.70 INV OUT (12"-W)=758.24	STR. NO. 4 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 155 LFT OF 12" RCP @ 0.25% RIM=761.00 INV IN (15"-SE)=757.63 INV IN (6"-S)=757.63 INV OUT (18"-W)=757.63	STR. NO. 7 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 291 LFT OF 12" RCP @ 0.29% RIM=760.00 INV OUT (12"-S)=747.02	STR. NO. SS-1 INSTALL SANITARY SEWER MANHOLE TYPE "C" WITH NEENAH R-1712-B-SP CASTING OR APPROVED EQUAL AND 236 LFT OF 10" PVC @ 0.35% RIM=761.95 INV OUT (10"-S)=747.02
STR. NO. 2 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-4215-C OR APPROVED EQUAL AND 48 LFT OF 12" RCP @ 0.25% RIM=760.80 INV OUT (12"-W)=758.22	STR. NO. 5 60 LFT OF ADS DURASLOT XL TRENCH DRAIN PIPE 10" AND ONE (1) CONCRETE END SECTION TRENCH DRAIN U.S. ELEV=758.05 D.S. ELEV=757.90 12" RCP U.S. ELEV=757.90 D.S. ELEV=757.25	STR. NO. 8 INSTALL TWO (2) CONCRETE END SECTION AND 62 LFT OF 12" RCP @ 1.84% U.S. ELEV=757.64 D.S. ELEV=756.50	STR. NO. SS-EX-1 EXISTING SANITARY SEWER MANHOLE. MECHANICAL CORE AND DENOTE FLEXIBLE BOOT CONNECTION FOR NEW INCOMING PIPE. ADJUST CASTING TO GRADE. RIM=758.82 PROP. INV IN (10"-N)=746.21 EX. INV OUT (10"-S)=745.91
STR. NO. 3 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND 138 LFT OF 15" RCP @ 0.35% RIM=761.00 INV IN (12"-S)=758.10 INV IN (12"-S)=758.10 INV OUT (15"-NW)=758.10	STR. NO. 6 INSTALL TYPE "E" INLET WITH NEENAH CASTING R-3405-A OR APPROVED EQUAL AND ONE (1) CONCRETE END SECTION AND 52 LFT OF 12" RCP @ 0.35% RIM=759.70 INV OUT (12"-S)=757.43 D.S. ELEV=757.25	STR. NO. 9 INSTALL ONE (1) CONCRETE END SECTION AND EXTEND 14 LFT OF 12" RCP @ 0.64% U.S. ELEV=756.40	STORM DOWNSPOUT DATA TABLE STR. DATA DOWNSPOUT D5-1 SEE DETAIL-SHEET 1000 40 LFT OF 6" PVC @ 0.50% U.S. EL=757.90 D.S. EL=757.70 D5-2 SEE DETAIL-SHEET 1000 90 LFT OF 6" PVC @ 0.50% U.S. EL=757.70 D.S. EL=757.25
		STORM DOWNSPOUT DATA TABLE STR. DATA DOWNSPOUT D5-3 SEE DETAIL-SHEET 1000 44 LFT OF 6" PVC @ 0.50% U.S. EL=758.00 D.S. EL=757.94 D5-4 SEE DETAIL-SHEET 1000 61 LFT OF 6" PVC @ 0.50% U.S. EL=757.94 D.S. EL=757.63	

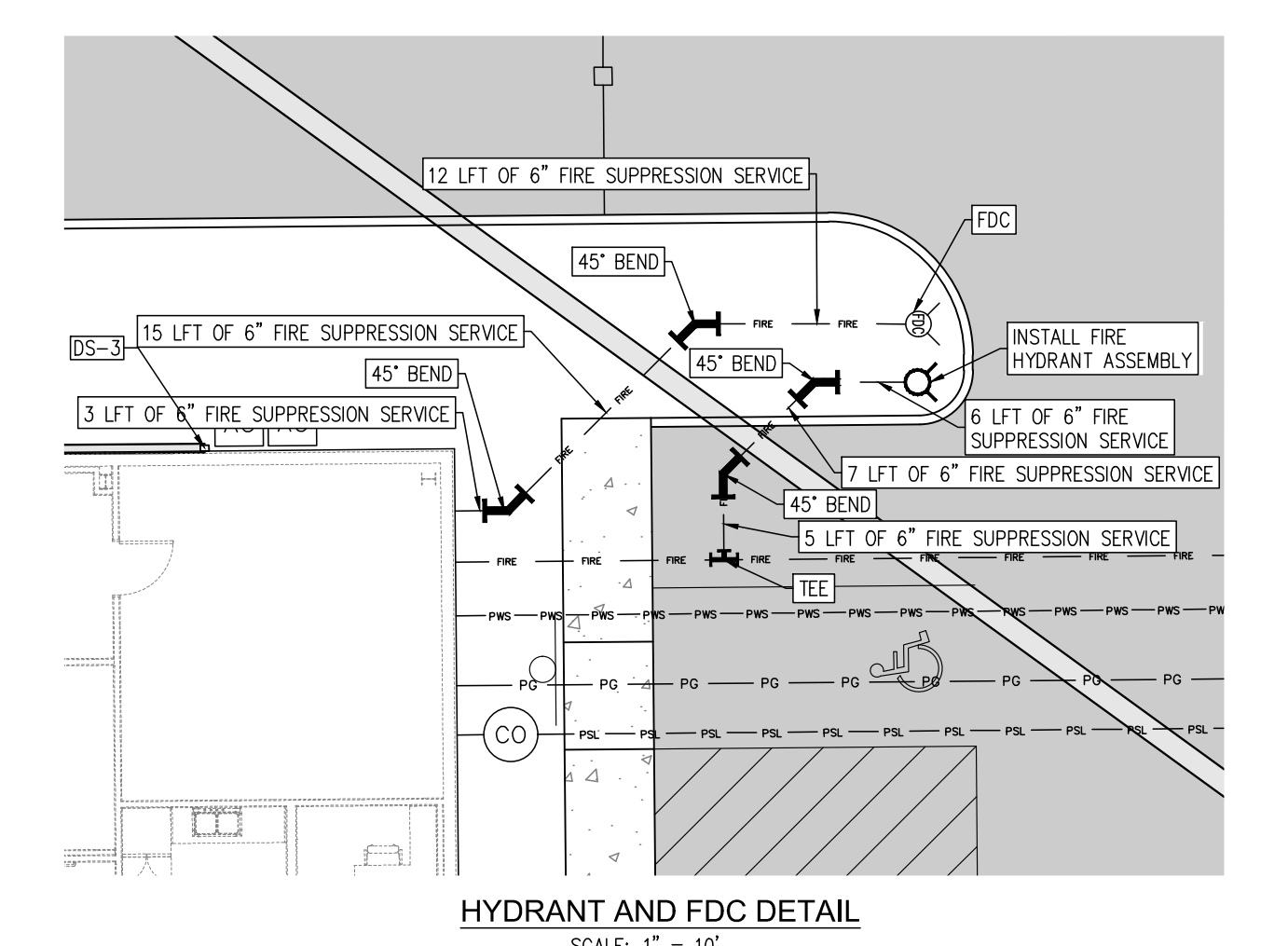


UTILITIES NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND CABLE, ELECTRIC, AND TELEPHONE CONNECTION SERVICE INSTALLATIONS. ALL LIGHTING FIXTURES AND POLES SHALL BE PER OWNER AND PHOTOGRAPHIC DETAILS, SHEET XXXX OF THESE PLANS.
- CONTRACTOR TO INSTALL 1" SCH. 40 PVC AT 3" TO 4" DEPTH AS NEEDED FOR ALL SITE LIGHTING. INSTALL 2" SCH. 40 PVC AT ALL PAVEMENT CROSSINGS. CONTRACTOR SHALL CONFIRM ELECTRICAL TRANSFORMER LOCATION, SERVICE CONNECTION REQUIREMENTS, DIMENSIONS, AND SPECIFICATIONS, WITH DUKE ENERGY.
- ALL LIGHT FIXTURES SHALL USE PULSE START BALLASTS AND TWO PHOTOCELL CONTROL RELAYS.
- EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL CONFIRM DEPTH AND LOCATION OF SANITARY SEWER MAIN STUB REPORT TO ENGINEERING PRIOR TO INSTALLING STR. NO. SS-XX.
- ALL SANITARY SEWER MAIN SHALL BE SDR-35 PVC PIPE.
- DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL TWO (2) GREEN METAL SIGN POSTS AT EACH LATERAL STUB, AND ONE (1) GREEN METAL SIGN POST AT EACH LATERAL STUB. CONTRACTOR SHALL PROTECT POSTS DURING CONSTRUCTION ACTIVITIES.
- ALL STORM SEWER CASTINGS SHALL HAVE RECESSED OR RAISED LETTERS AT LEAST ONE INCH HIGH WITH THE PHRASE "DUMP NO WASTE - DRAINS TO WATERWAY" AND INCLUDE AN ENVIRONMENTAL LOGO (FISH). PHRASE AND LOGO SHALL BE A PART OF ALL CASTINGS.
- ALL FIELD TILES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED/CONNECTED TO NEW DRAINAGE FACILITIES.
- GATE VALVES SHALL BE INSTALLED ON ALL SERVICE LINE TAPS. COORDINATE WITH THE INAW UTILITY FOR ALL STANDARDS AND SPECIFICATIONS.
- COORDINATE INSTALLATION OF FIRE HYDRANTS WITH INDIANA AMERICAN WATER AND THE CITY OF FRANKLIN FIRE DEPARTMENT. TYPE, MATERIAL, AND MANUFACTURER OF FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH FRANKLIN FIRE DEPARTMENT REQUIREMENTS. ALL PUBLIC FIRE HYDRANTS ARE TO BE YELLOW AND ALL PRIVATE FIRE HYDRANTS ARE TO BE RED WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW, AS FOLLOWS: 1500 gpm=BLUE, 1000-1499 gpm=GREEN, AND 500-999 gpm=ORANGE.
- ALL HYDRANTS SHALL HAVE A STORZ CONNECTION.

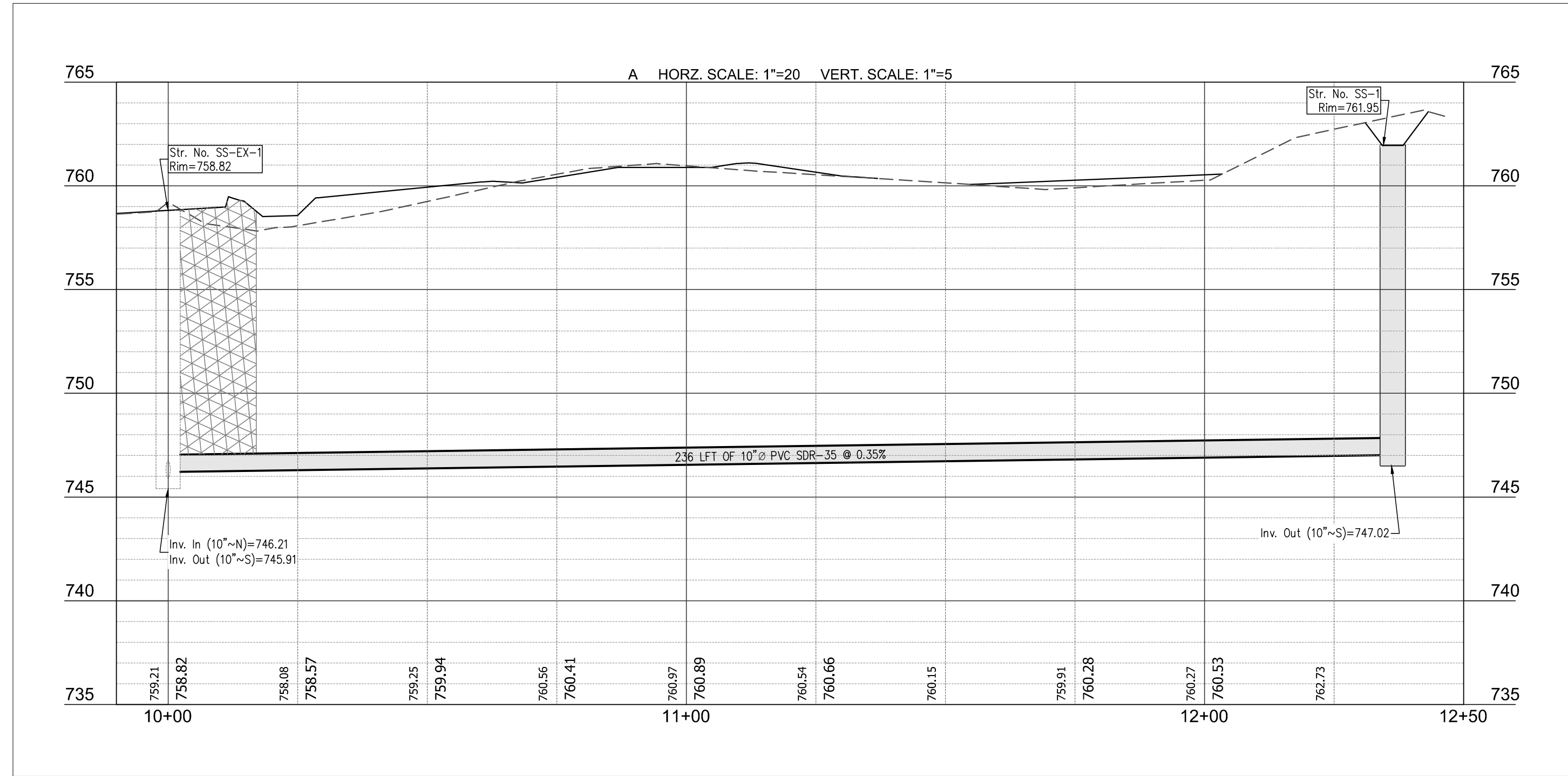
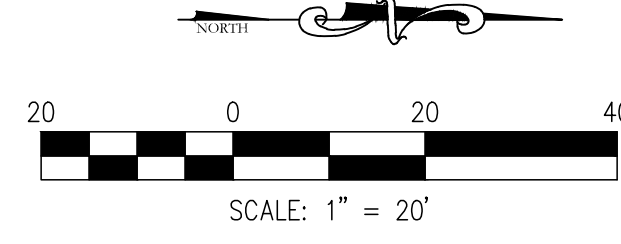
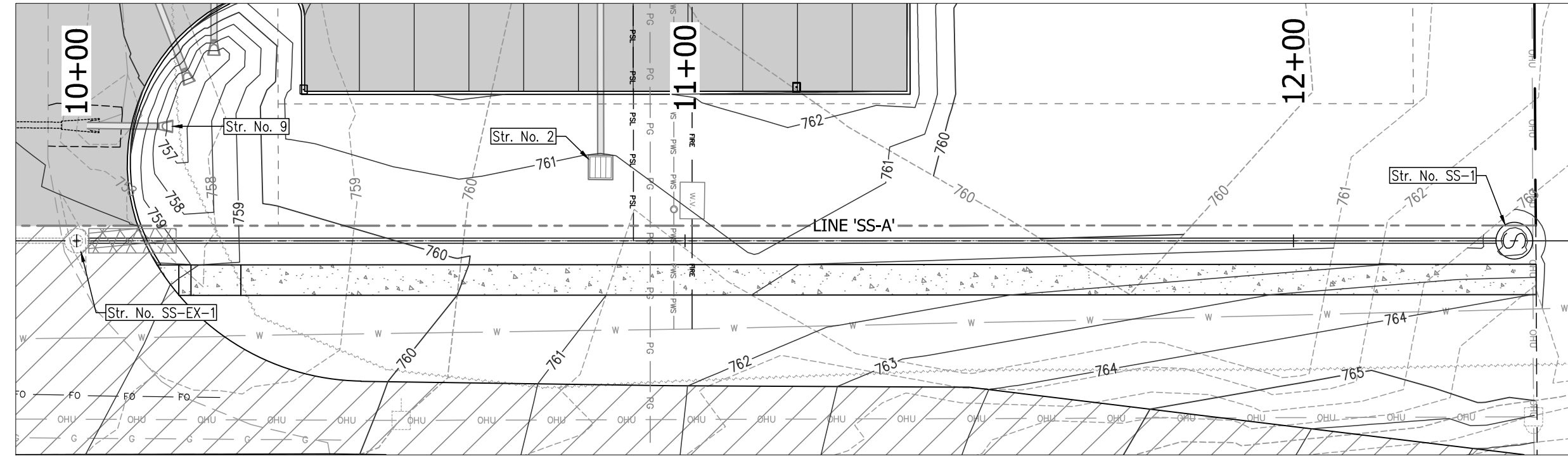


UTILITY	COMPANY	CONTACT	PHONE	EMAIL
COMMUNICATIONS	MC	DEAN BOYERS	469-886-4238	investigations@verizon.com
FIBER OPTIC	BRIGHTSPEED	MELISSA TEAGUE	765-656-4663	mteague@brightspeed.com
FIBER OPTIC	METRO FIBERNET	MARK DEKARD	812-253-2196	mrdkard@metronetinc.com
ELECTRIC	DUKE ENERGY	JESSICA TURNER	812-462-2007	jessica.turner@duke-energy.com
SANITARY	CITY OF FRANKLIN DPW	EVAN HART	317-412-8450	ehart@franklin.in.gov
WATER	INDIANA AMERICAN WATER COMPANY	TRACY WHITE	317-885-2426	tracy.white@iamwater.com
GAS	CENTERPOINT ENERGY	JON EASTHAM	765-287-2119	publicproject@centerpointenergy.com
FIRE DEPARTMENT	CITY OF FRANKLIN	BRYNE PURSIFULL	317-736-3650	bpursifull@franklin.in.gov



DIRECTORY PATH : R:\Active\Licenses\Revised\JOJO Recycle Center Design\CAD\Plans
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 UTILITY FIELD PROFILES.dwg
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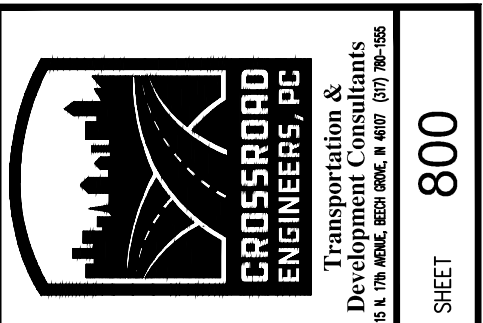
GRANULAR BACKFILL
ALONG SANITARY SEWER

PROPOSED LEGEND	
---	PROPERTY LINE
---	SECTION LINE
---	SETBACK LINE
---	EASEMENT LINE
---	FENCE LINE
---	SANITARY SEWER LATERAL WITH CLEANOUT
---	STORM SEWER W/INLET & END SECTION
---	FIRE SERVICE LINE
---	WATER SERVICE LINE
---	GAS LINE
△	SIGN
□	WATER VAULT
⊕	45° BEND
○	PIV
⊕	FDC
⊕	FIRE HYDRANT
⊕	TEE

ALL STORM, SANITARY AND UTILITY TABLES ARE LOCATED ON SHEET _____

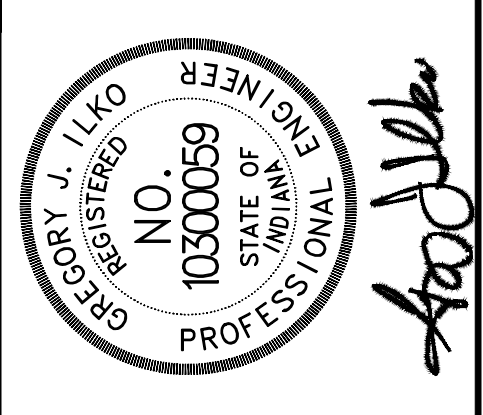
NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF STRUCTURE SS-____ PRIOR TO INSTALLATION OF ANY PROPOSED INFRASTRUCTURE. PROPOSED INVERT SHALL BE CORE DRILLED INTO EXISTING MANHOLE PER ALL REQUIRED FRANKLIN REQUIREMENTS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



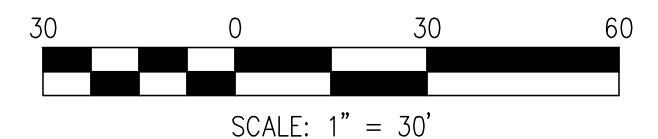
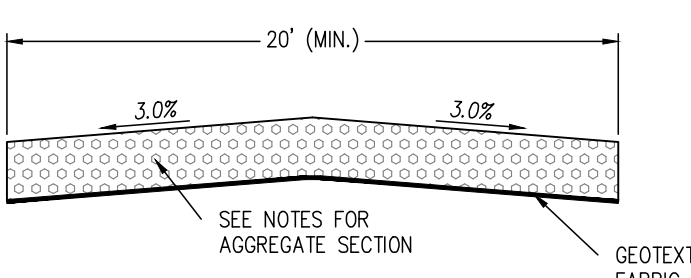
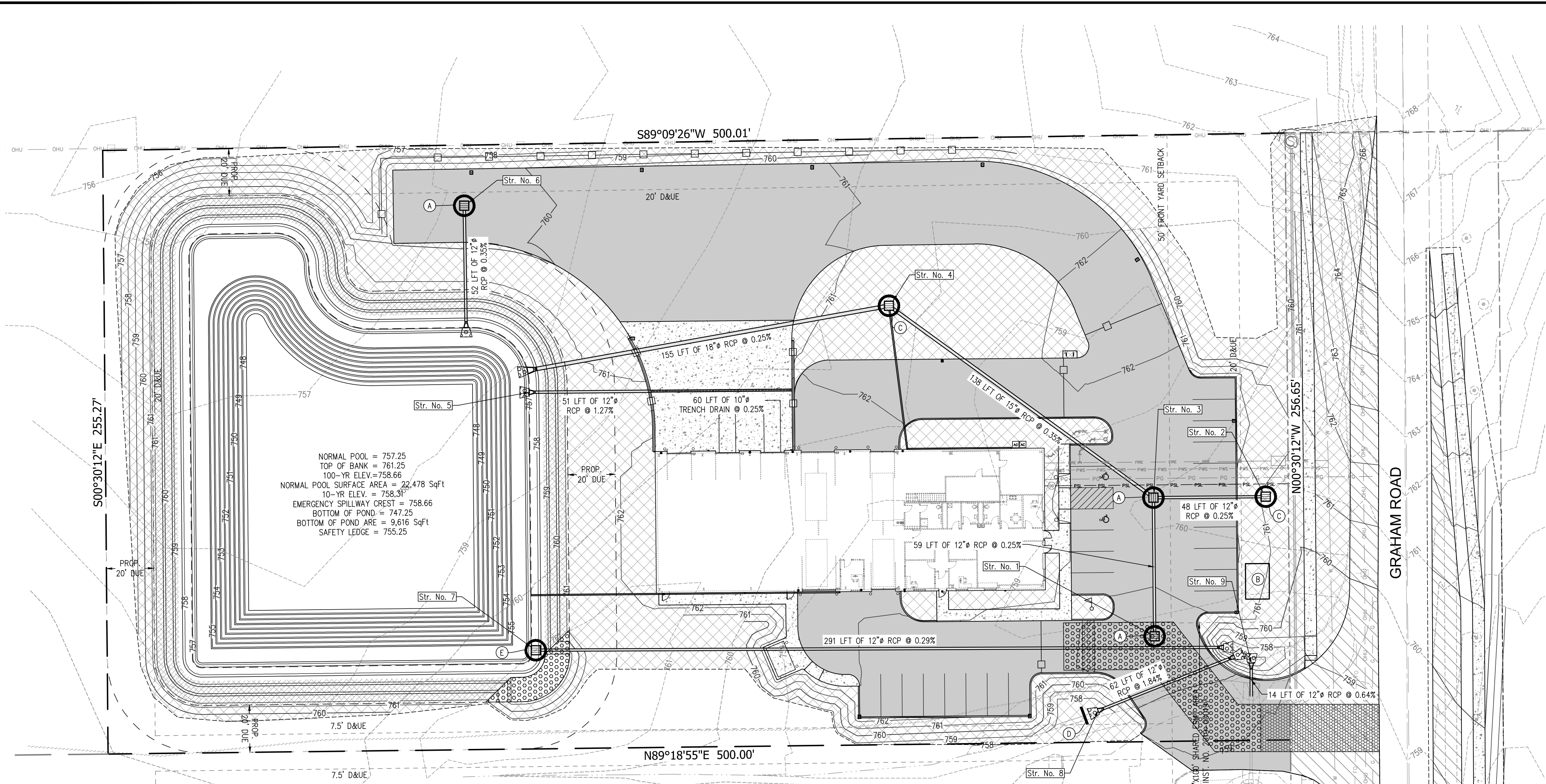
SANITARY PLAN AND PROFILE
JOHNSON COUNTY RECYCLE CENTER

JOB No. _____ DATE APRIL 11, 2024
 DRAWN LMC DESIGNED BTY
 CHECKED BTY APPR. GJI



NO.	DATE	REVISIONS	BY	APPR.
9				
8				
7				
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NO.	DATE	REVISIONS	BY	APPR.
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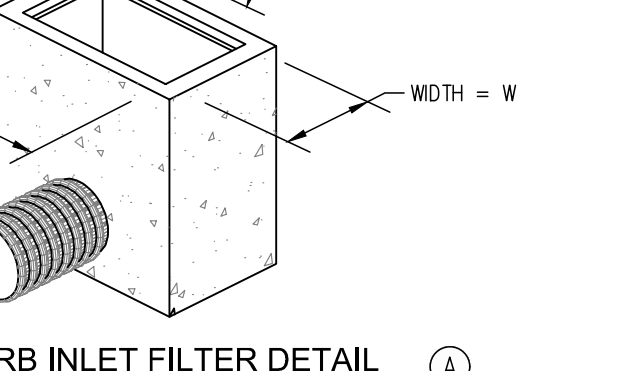
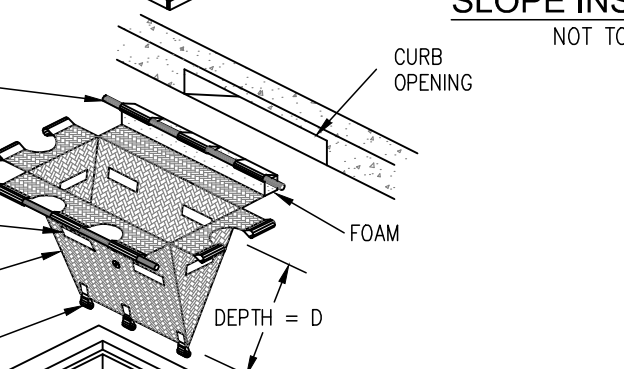
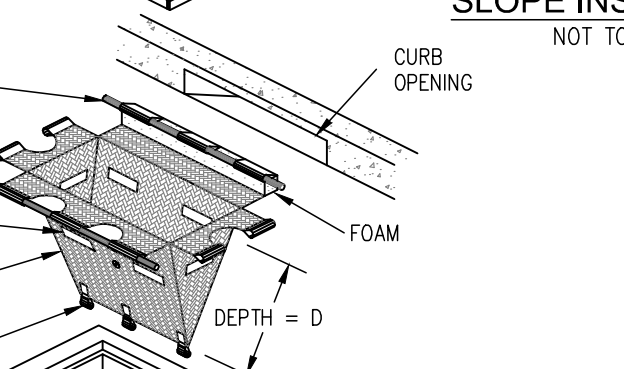
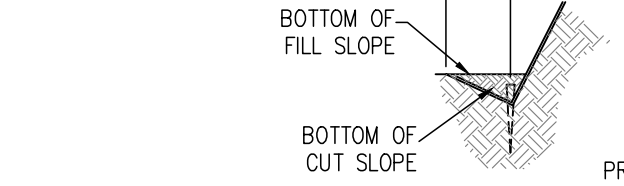
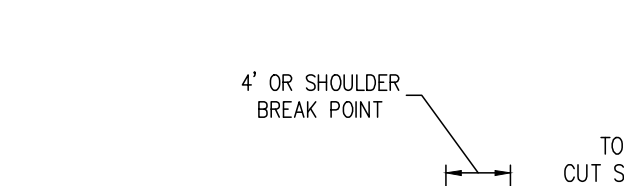
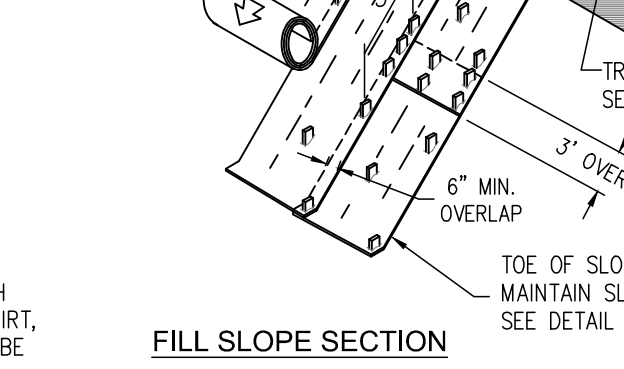
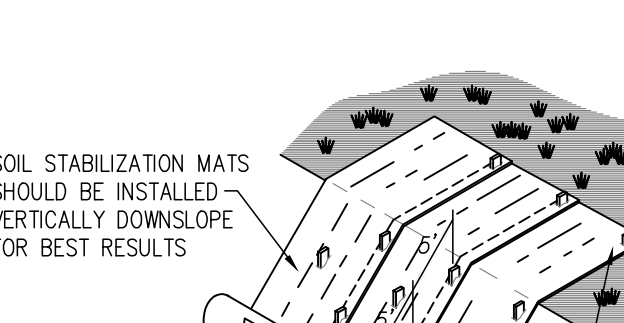
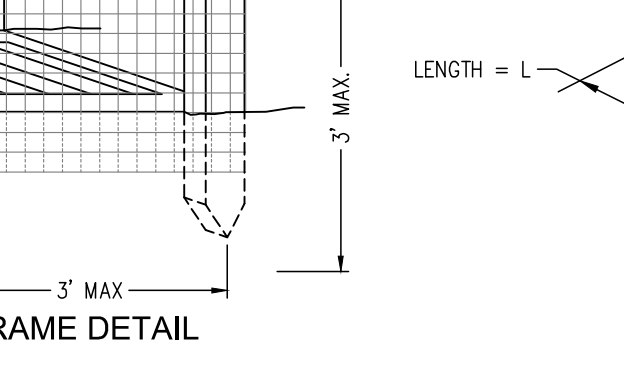
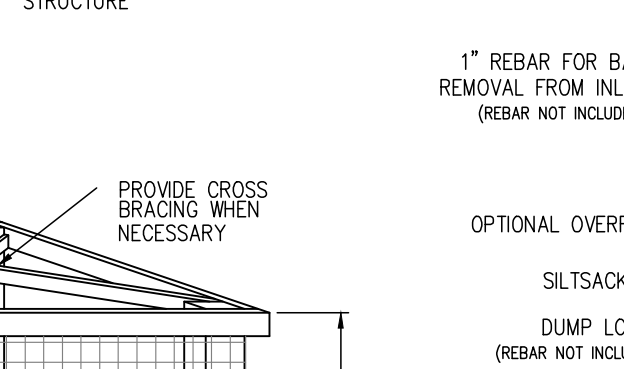
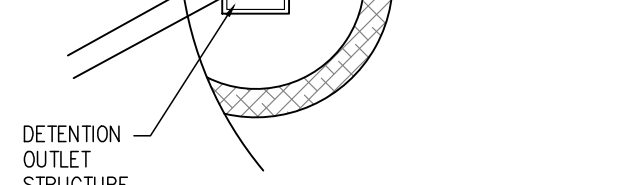
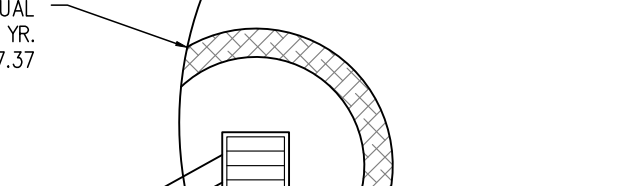
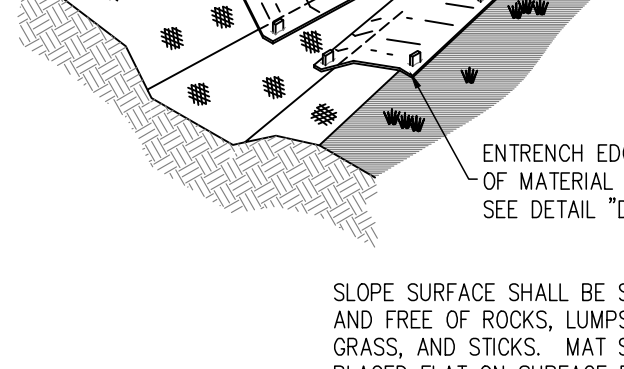
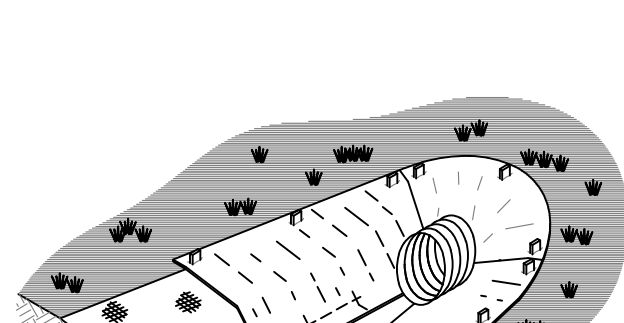
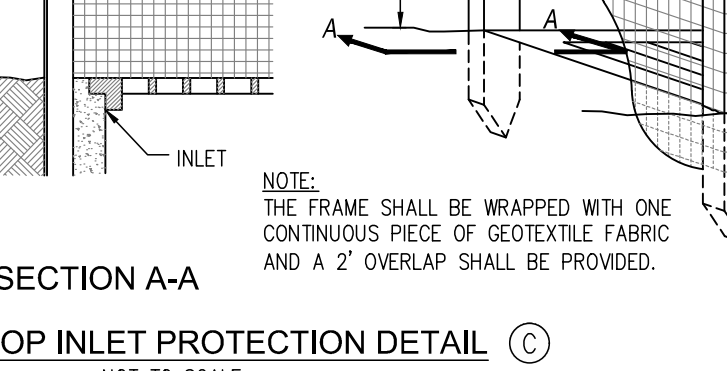
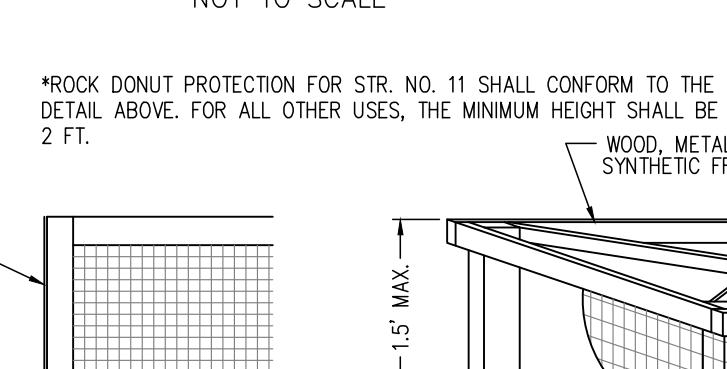
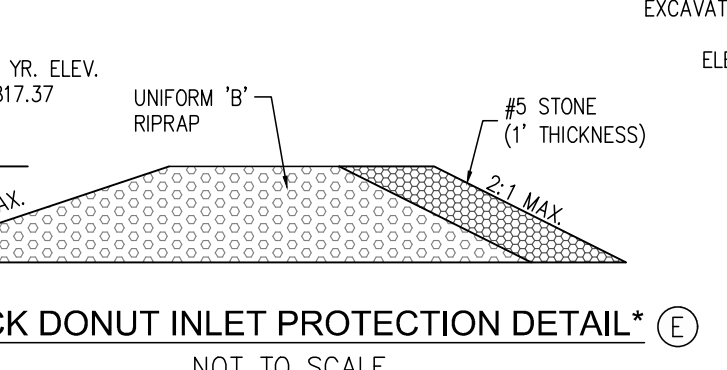
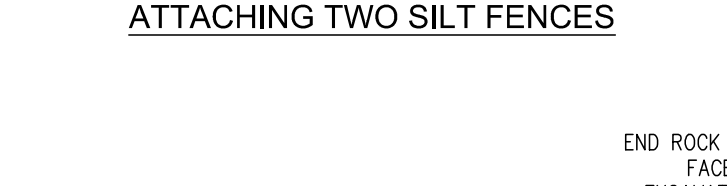
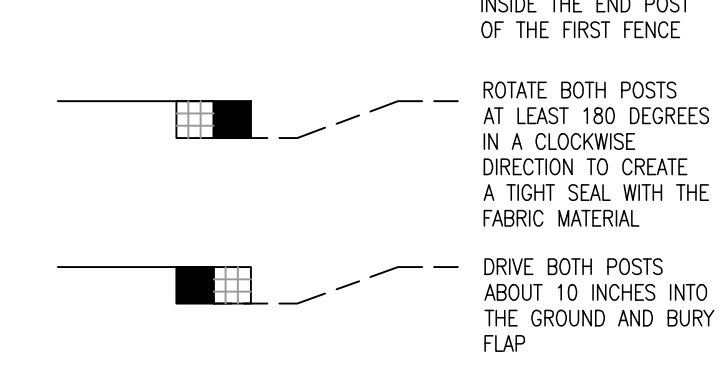
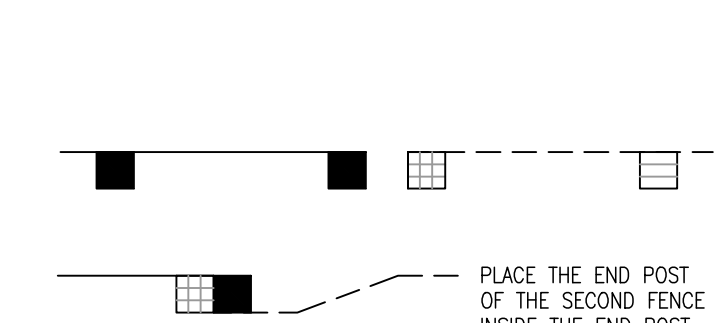
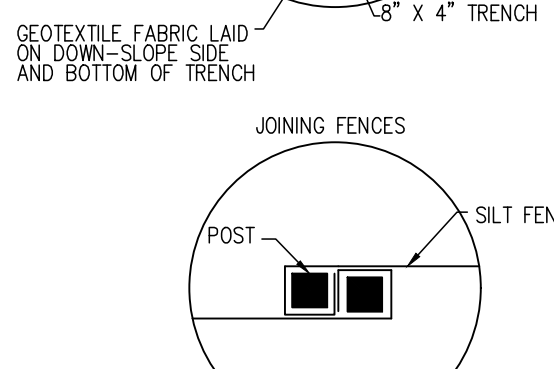
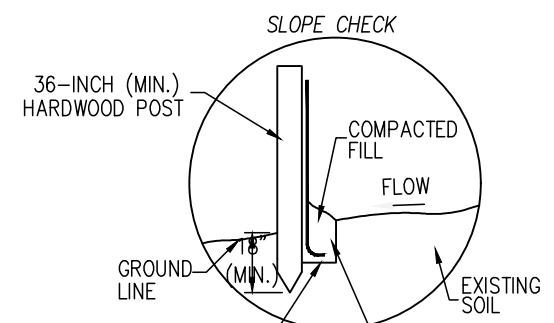


EROSION CONTROL LEGEND

- MULCHED SEEDING
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150 OR EQUAL) AND MULCHED SEEDING
- REVETMENT RIPRAP
- CONSTRUCTION DRIVE (SEE DETAIL THIS SHEET)
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- CURB INLET PROTECTION (SEE DETAIL-THIS SHEET)
- CONCRETE WASHOUT AREA (SEE DETAIL-THIS SHEET)
- FABRIC DROP INLET PROTECTION (SEE DETAIL-THIS SHEET)
- ROCK CHECK DAM (SEE DETAIL-THIS SHEET)
- ROCK DONUT INLET PROTECTION (SEE DETAIL-THIS SHEET)

EROSION CONTROL NOTES

1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS.
4. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY 3\"/>



ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS.

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.



EROSION CONTROL PLAN INDEX PLAN ELEMENTS

Table with 8 columns: ELEMENT, SHEET, ELEMENT, SHEET, ELEMENT, SHEET, ELEMENT, SHEET. Lists various erosion control measures and their corresponding sheet numbers.

VICINITY MAP A vicinity map depicting the project site location is located in right half of the Stormwater Pollution Prevention Plan.

PROJECT NARRATIVE The project involves the construction of a new recycling center for Johnson County. The project is located along Graham Road, north of Livable Way, Drives, curbs, parking and walks necessary for the development shall be constructed as part of the construction plans hereon. A storm sewer system shall be utilized for stormwater collection. Drainage will discharge into the existing drive culvert located in the southeast corner of the property.

LATITUDE & LONGITUDE Latitude N 39°30'41" Longitude W 86°03'24"

LEGAL DESCRIPTION The legal description of the project site is located in the lower right quadrant of the Stormwater Pollution Prevention Plan.

100 YEAR FLOOD PLAINS, FLOODWAYS AND FLOODWAY FRINGS By graphic plotting only, this tract of land described hereon lies within Zone 'X' (areas outside of the 0.2% annual chance floodplain) and is not in a Special Flood Hazard Area as shown on the Federal Emergency Management Agency Flood Insurance Rate Map for Johnson County, Indiana, Community Panel No. 1808100143E, which bears an effective date of January 25, 2021.

ADJACENT LAND USE The adjacent landuses are labeled on the Erosion Control Plan.

DESCRIPTION OF TOTAL MAXIMUM DAILY LOAD (TMDL) REPORT Name: Canary Ditch (INDW463_11006) Location: West of the project site.

POLLUTANTS ADDRESSED: Not applicable, as there are no TMDL associated with this watershed.

RECEIVING WATERS The receiving water for this project is Canary Ditch.

DESCRIPTION OF 303(d) LIST Name: Canary Ditch (INDW463_11006) Location: West of the project site.

WETLANDS, LAKES, AND WATER COURSES There are no potential wetland areas located within the project site, nor shall any potential wetland areas be disturbed as a result of construction.

STATE AND/OR FEDERAL WATER QUALITY PERMITS DEM CDP is required for this project.

EXISTING VEGETATIVE COVER The existing site is cultivated farm land.

EXISTING SITE TOPOGRAPHY Existing one-foot contours are shown on the Erosion Control Plan.

EXISTING RUN-OFF ENTRANCE AREA Runoff enters the site from the northeast corner via roadside ditch. Runoff also comes into the site from the existing ditch south of the site.

EXISTING RUN-OFF DISCHARGE AREA Runoff from the eastern half of the site discharges into the existing drive culvert at the southeast corner of the site. Runoff from the western half of the site discharges west to the adjacent farm field.

EXISTING STORMWATER SYSTEMS The existing stormwater system sizes and dimensions are labeled on the Topographic Survey Plan.

EXISTING RETENTION/DETENTION FACILITIES There are no existing retention/detention facilities onsite.

POTENTIAL DISCHARGES TO GROUND WATERS There are no potential locations where stormwater may enter the groundwater.

TOTAL PROJECT AREA The total project area covers ±3.25 acres.

EXPECTED DISTURBED AREA The expected project land disturbance is ±3.25 acres.

PROPOSED SITE TOPOGRAPHY Proposed one-foot contours are shown on the Erosion Control Plan.

DISTURBED AREAS The construction limits (boundary of disturbed area) are shown on the Erosion Control Plan.

PROPOSED STORMWATER SYSTEMS The proposed stormwater system sizes and dimensions are labeled on the Erosion Control Plan.

PROPOSED STORMWATER DISCHARGE Stormwater will discharge from the site through the existing drive culvert in the southeast corner of the site.

SITE IMPROVEMENTS This project involves the construction of a new recycle center. New parking and drives will be installed as well as a wet detention pond and storm system.

SOIL STOCKPILES, BORROW/DISPOSAL AREAS Topsoil shall be stockpiled in a convenient location (as determined by the owner and/or contractor) within the construction site as shown on the Erosion Control Plan. There is no anticipated soil stockpile location.

CONSTRUCTION SUPPORT ACTIVITIES There are no construction support activities anticipated with these improvements.

IN-STREAM ACTIVITIES There are no in-stream activities anticipated with these improvements.

STORMWATER POLLUTION PREVENTION - DURING CONSTRUCTION

POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES There is a potential for pollutants associated with construction machinery including diesel fuel, hydraulic fluid, engine oils and lubricants, antifreeze and other petroleum products. It is unavoidable for a small amount of these pollutants to contaminate soil in the grading and construction of the site.

CONSTRUCTION ENTRANCE The construction entrance shall be constructed at the existing drive entrance off of Graham Road. Specifications and details are located on the Stormwater Pollution Prevention Plan.

TEMPORARY & PERMANENT STABILIZATION Temporary & Permanent surface stabilization methods are shown on the Erosion Control Plan and detailed on the Stormwater Pollution Prevention Plan.

SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS Sediment control measures for concentrated flow areas are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS Sediment control measures for sheet flow areas are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

RUNOFF CONTROL MEASURES Runoff control measures are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

STORMWATER OUTLET PROTECTION MEASURES Stormwater outlet protection measures are shown on the Erosion Control Plan. Specifications and details are located on the Stormwater Pollution Prevention Plan.

GRADE STABILIZATION STRUCTURES No grade stabilization structures are required for this project.

DEWEATERING ACTIVITIES If required during excavation operations, dewatering shall be completed as shown on the Erosion Control Plan. Specifications and details are located on the Erosion Control Plan and Stormwater Pollution Prevention Plan.

WATERBODY QUALITY MEASURES Measures utilized for work within waterbodies are shown on the Erosion Control Plan and associated details/specifications are shown on the Stormwater Pollution Prevention Plan.

MONITORING AND MAINTENANCE GUIDELINES Monitoring and Maintenance Guidelines are located in the middle on the Stormwater Pollution Prevention Plan.

PLANNED CONSTRUCTION GUIDELINES Planned Construction Sequence guidelines are located in the middle on the Stormwater Pollution Prevention Plan.

EROSION & SEDIMENT CONTROL MEASURES FOR INDIVIDUAL BUILDING LOTS Not applicable, as this is to be developed as a standalone recycle center.

MATERIAL HANDLING AND SPILL PREVENTION Spill prevention shall be accomplished by utilizing spillspalls for equipment fueling and servicing operations. Spillspalls shall be 3"x3"x6" and shall be constructed of a material resistant petroleum products (including diesel fuel and oil). On-site fuel storage tanks shall have emergency storage capacity directly below the tank in case of rupture. Any hazardous material spillage shall be cleaned immediately by a trained individual and disposed of in accordance with all federal, state and local regulations.

Indiana Department of Environmental Management Office of Emergency Response (317) 233-7745, Toll Free (800) 233-7745, Franklin Fire Department (317) 738-3851

Additional Material Handling and Spill Prevention (this sheet)

MATERIAL HANDLING AND STORAGE Material Handling and Storage Procedure guidelines are located in the middle on the Stormwater Pollution Prevention Plan.

STORMWATER POLLUTION PREVENTION - POST CONSTRUCTION

C1. PROPOSED POLLUTANTS AND SOURCES ASSOCIATED WITH PROPOSED LAND USE Potential pollutants include petroleum products and antifreeze from automobiles using the parking areas and sediment.

C2. PROPOSED POST CONSTRUCTION STORMWATER MEASURES Post construction stormwater quality measures shall consist of a wet detention pond.

C3. LOCATION, DIMENSIONS, SPECIFICATIONS AND DETAILS OF EACH STORMWATER QUALITY MEASURE The location of the wet detention pond is shown on the construction plans.

C4. STORMWATER QUALITY MEASURE IMPLEMENTATION Stormwater quality measures are implemented by construction of the site improvements which include the wet detention pond for stormwater quality treatment.

C5. MAINTENANCE GUIDELINES OF POST CONSTRUCTION STORMWATER QUALITY MEASURES All landscape areas shall be maintained by mowing, removing trash and debris, and re-planting any vegetated areas as necessary. The proposed storm sewer inlets shall be inspected for blockage of any type after each storm event. All obstructions, trash, and debris shall be removed upon inspection. Maintenance and inspection of the wet detention pond and outlet structure shall be performed in accordance with the manufacturer's recommendation and the Operations and Maintenance (O&M) Manual approved by the City of Franklin MS4 Coordinator.

C6. PARTY RESPONSIBLE FOR POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION Johnson County Solid Waste District, Kevin Walls, Phone: (317) 346-4306, Email: kwalls@jco.johnsoncounty.in.gov

MONITORING AND MAINTENANCE GUIDELINES

GRAVEL CONSTRUCTION DRIVE AND PARKING AREA: A. Inspect daily and after each storm event. Immediately remove mud and sediment tracked or washed onto public roads.

B. Top dress with clean aggregate as needed. Reshape pad as needed for drainage and runoff control.

C. Flushing should only be used if the water can be conveyed into a sediment trap or basin.

TOPSOIL: A. Inspect daily until vegetation is established.

B. Check for erosion or damage of newly spread topsoil and repair immediately.

TEMPORARY AND PERMANENT SEEDING: A. Inspect seeding within 24 hours of each rain event and at least once every seven calendar days until vegetation is established.

B. Check for erosion or movement of mulch and repair immediately.

C. Plan to add fertilizer the following growing season according to soil test recommendations.

D. Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching.

E. If plant cover is sparse or patchy, re-tilt the plant materials chosen, soil fertility, moisture condition, and mulching; repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seed bed.

F. If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems.

G. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

H. Reference INDOT Specification 621.05.

EROSION CONTROL BLANKET: A. Inspect within 24 hours of each rain event and at least once every seven calendar days. Check for erosion or displacement of the blanket.

B. If any areas of erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, re-seed the area, and re-lay and staple the blanket.

C. After vegetation establishment, check the treated area periodically.

MULCHING: A. Inspect within 24 hours of each rain event to check for movement of mulch or for erosion.

B. If washout, breakage, or erosion is present, repair damage areas, re-seed, apply new mulch, and re-lay mulch in place.

C. Continue inspections until vegetation is firmly established.

D. Reference INDOT Specification 621.05.

RIPRAP: A. Inspect periodically for displaced rock material, slumping, and erosion at edges, especially downstream or downslope.

SILT FENCE: A. Inspect within 24 hours of each rain event and at least once every seven calendar days.

B. If fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately.

C. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to sag.

D. Take care to avoid undermining the fence during clean out.

E. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize.

SILT SACK INLET PROTECTION: A. Inspect the silt sack inlet protection periodically and after each 1/2" storm event.

B. Remove deposited sediment when it reaches half the height of the filter at the lowest point.

C. Remove the Silt Sack Inlet Protection and sediment deposits after contributing drainage area is stabilized.

ROCK CHECK DAM: A. Inspect the check dam and channel after each storm event, and repair any damage immediately.

B. If significant erosion occurs between dams, install a riprap liner in that portion of the channel.

C. Remove sediment accumulated behind each dam as needed to maintain channel capacity, to allow drainage through the dam, and to prevent large flows from displacing sediment.

D. Add rock to the dams as needed to maintain design height and cross section.

CONCRETE WASHOUT: A. Concrete washout area shall be installed prior to any concrete placement on site.

B. Signs shall be placed at the construction entrance, at the washout area, and elsewhere as necessary to clearly indicate the location of the concrete washout area to operators of concrete trucks and pump trucks.

C. The concrete washout area shall be repaired and enlarged or cleaned out as necessary to maintain capacity for washout concrete.

D. At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site.

E. When the concrete washout area is removed, the disturbed area shall be seeded and mulched or otherwise stabilized in a manner approved by the inspector.

CONSTRUCTION SEQUENCE & SCHEDULE OF EROSION CONTROL IMPLEMENTATION

1. Silt fence and/or straw bales shall be placed around existing structures and in ditches as shown in these plans before any land disturbing activities are started.

2. Schedule a pre-construction meeting with Johnson County SWCD and City of Franklin 48 hours prior to start of earthwork.

3. Construct temporary gravel entrance in accordance with the "INDIANA STORM WATER QUALITY MANUAL". All other erosion control measures and detention areas shall be installed and constructed as shown at the beginning of the project.

4. Construct detention pond and install respective outlet structures.

5. Strip topsoil and stockpile as shown.

6. Rough grade site. Disturbed areas should be seeded immediately following rough grading. Areas that will not be disturbed areas should be permanently seeded. No unvegetated areas should be exposed for more than seven days.

7. Place drainage structures. Erosion control measures shall be placed around proposed structures as soon as they are in place and until vegetation is secure.

8. Construct building and other remaining site improvements and utilities.

9. Final grade site. All erosion control blankets shall be installed per manufacturers recommendations as soon as final grading is complete.

10. Final paving operations. Temporary erosion control measures shall remain in place until vegetation is secure.

GENERAL EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH IDEM GENERAL PERMIT RULES FOR STORM WATER RUNOFF FROM CONSTRUCTION SITES

1. All Erosion Control practices shall be in accordance with the latest edition of the INDIANA STORM WATER QUALITY MANUAL.

2. The Erosion Control measures included in this plan shall be installed prior to initial land disturbance activities or as soon as practical. Sediment shall be prevented from discharging from the project site by installing and maintaining silt fence, straw bales, sediment basins, etc. As shown on this plan. If shown on this plan, energy-dissipation devices or Erosion Control at the outlet of the storm sewer system shall be installed at the time of the construction of the outlet.

3. All on-site storm drain inlets shall be protected against sedimentation with silt sack inlet filters, filter fabric, or equivalent barriers as shown on this plan.

4. Except as prevented by inclement weather conditions or other circumstances beyond the control of the contractor/developer appropriate Erosion Control practices will be initiated within (7) seven days of the last land disturbing activity at the site. The site shall be stabilized by seeding, sodding, mulching, covering, or by other equivalent Erosion Control measures.

5. This Erosion Control plan shall be implemented on all disturbed areas within the construction site. All measures involving Erosion Control practices shall be installed under the guidance of a qualified person experienced in Erosion Control and following the plans and specifications included herein.

6. During the period of construction activity, all sediment basins and other Erosion Control measures shall be maintained by the contractor. At the completion of construction, the contractor shall coordinate the transfer of required maintenance responsibilities with the owner.

7. Public or private roadways shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Cleared sediment shall be returned to the point of origin or other suitable location.

8. The contractor shall control wastes, garbage, debris, wastewater, and other substances on the site in such a way that they shall not be transported from the site by the action of winds, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building materials appropriate to the nature of the waste or material is required.

9. Additional Erosion Control measures may be required by state or county agencies.

ADDITIONAL MATERIAL HANDLING AND SPILL PREVENTION PLAN

A. PURPOSE The purpose of this plan is to: 1. To help protect the health and safety of those working on the site as well as the environment.

2. Preventing the contamination of storm water runoff. Pollutants generated onsite may include gasoline, diesel fuel, oils, grease, paints, pesticides, nutrients, concrete washout, soil, solvents, paper, plastic, Styrofoam, metals, glass and other forms of liquid or solid wastes.

This plan outlines procedures to help prevent health and safety issues, contamination of storm water by onsite pollutants, help prevent fuel and chemical spills and provide a response procedure should a spill occur.

B. PREVENTION AND READINESS 1. The contractor or responsible party will prepare a contact list in the event of a spill on the site. The contact list will have names and contact numbers. The contact list will specify first responders and a chain of command. Include information on what circumstances require the initiation of the contact list and chain of command.

2. The contractor/owner shall maintain a list of qualified contractors, Vac-Trucks, tank pumpers and other equipment or businesses qualified to do clean-up operations. Absorbent materials and supplies need to be available onsite in sufficient quantities to address minor spills. All employees need to be educated on the proper application of the absorbent materials.

3. All maintenance and equipment operators must be aware and trained for prevention of spills. A continuing education program is required for new employees and emphasizing the importance to all employees.

4. All materials used in the course of a cleanup will be disposed in a manner approved by Indiana Department of Environmental Management.

5. Using water to flush spilled material will not be permitted unless authorized by a state, federal, or local agency. Trops can be used to cover spilled material during rain events.

C. SPILL RESPONSE Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid etc. Minor spills can be controlled by the first responder at the discovery of the spill.

• Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.

• Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from a spill response professional. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:

• Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.

• Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.

• Contact 911 if this spill could be a safety issue.

• Contact supervisors and designated inspectors immediately.

• Contaminated solids to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or the potential for surface or groundwater pollution.

Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.

Immediately contact the local Fire Department at 911 to report any hazardous material spill.

Contact supervisors and designated inspectors immediately. Other county or municipal officials (list as needed) responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.

As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management.

Office of Emergency Response 1-888-233-7745. The following information should be noted for IDEM or the National Response Center.

Name, address and phone number of person making the spill report

The location of the spill

The time of the spill

Identification of the spilled substance

Approximate quantity of the substance that has been spilled or may be further spilled

Name and location of source of the spill

Name and location of the damaged waters

Name of spill response organization

What materials were taken in the spill response

Other information that may be significant

Additional regulation or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

D. THE FOLLOWING PROCEDURES AND PRACTICES WILL HELP PREVENT UNNECESSARY SPILLS

I. Vehicle and Equipment Fueling Description and Purpose:

Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Limitations: Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling.

Implementation: Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.

Discourage "topping-off" of fuel tanks. Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.

Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.

Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.

Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.

Train employees and subcontractors in proper fueling and cleanup procedures.

Dedicated fueling areas should be provided from stormwater run-on and runoff, and should be located at least 50 feet away from the downstream drainage facilities and watersheds. Fueling must be performed on level-grade areas.

Protect fueling areas with berms and dikes to prevent run-on, and to contain spills.

Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.

Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Inspection and Maintenance: Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.

Keep ample supplies of spill cleanup materials onsite.

Immediately clean up spills and properly dispose of contaminated soils.

II. Soil Waste Management Description of Purpose:

Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable Applications: This BMP is suitable for construction sites where the following wastes are generated or stored:

Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (including concrete) and building construction.

Packaging materials including wood, paper, and plastic.

Slop or surplus building materials including scrap metals, rubber, plastic, glass pieces, and masonry products.

Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes.

Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, Styrofoam and other materials send transport and package construction materials.

Implementation: The following steps will help keep a clean site and reduce stormwater pollution:

Select designated waste collection areas onsite.

Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.

Inspect dumpsters for leaks and repair any dumpster that is not watertight.

Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.

Plan for additional containers and more frequent pickup during the demolition phase of construction.

Collect site trash daily, especially during rainy and windy conditions.

Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.

Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acid, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for construction debris.

Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.

Arrange for regular waste collection before containers overflow.

Clean up immediately if a container does spill.

Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located in areas prone to flooding or ponding.

Locate solid waste dumpster a minimum of 50' away from storm water inlets or other drainage facilities.

Locate dumpster on stone or earth to minimize the potential for spills or leaks to drain immediately into a drainage facility.

Inspection and Maintenance: Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. Inspect activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.

Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur.

Inspect construction waste are regularly.

Arrange for regular waste collection.

III. Concrete Washout The following steps will help reduce stormwater pollution from concrete wastes:

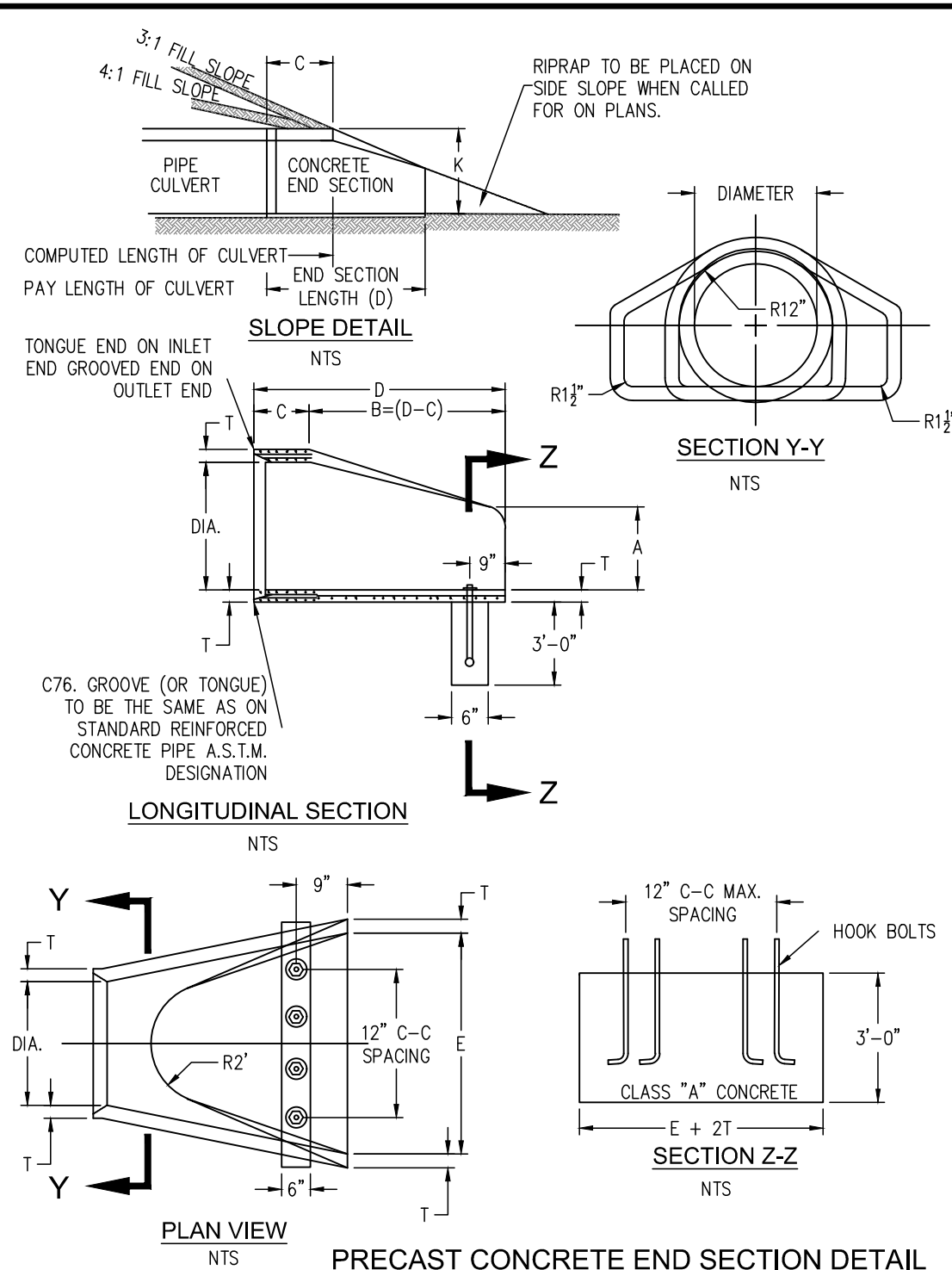
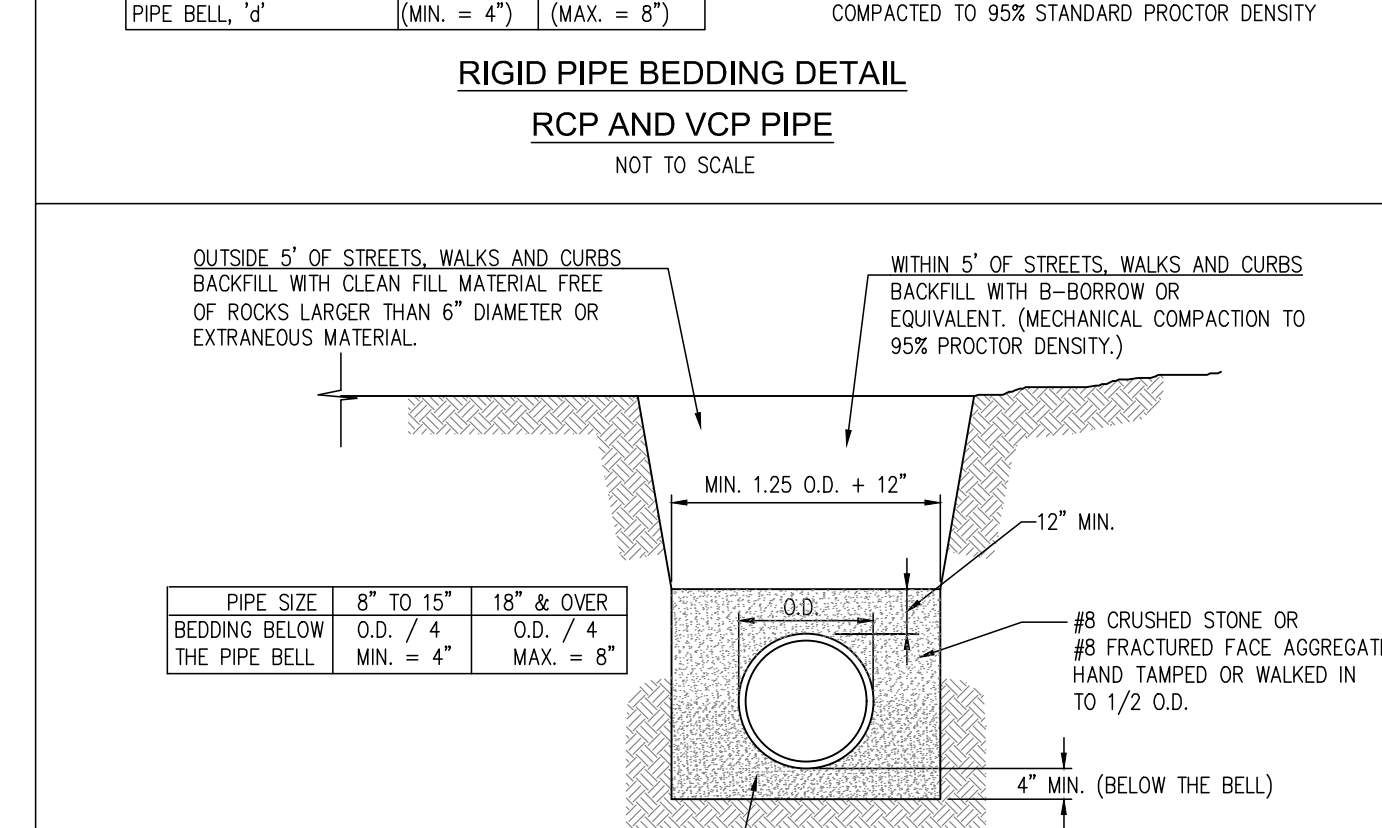
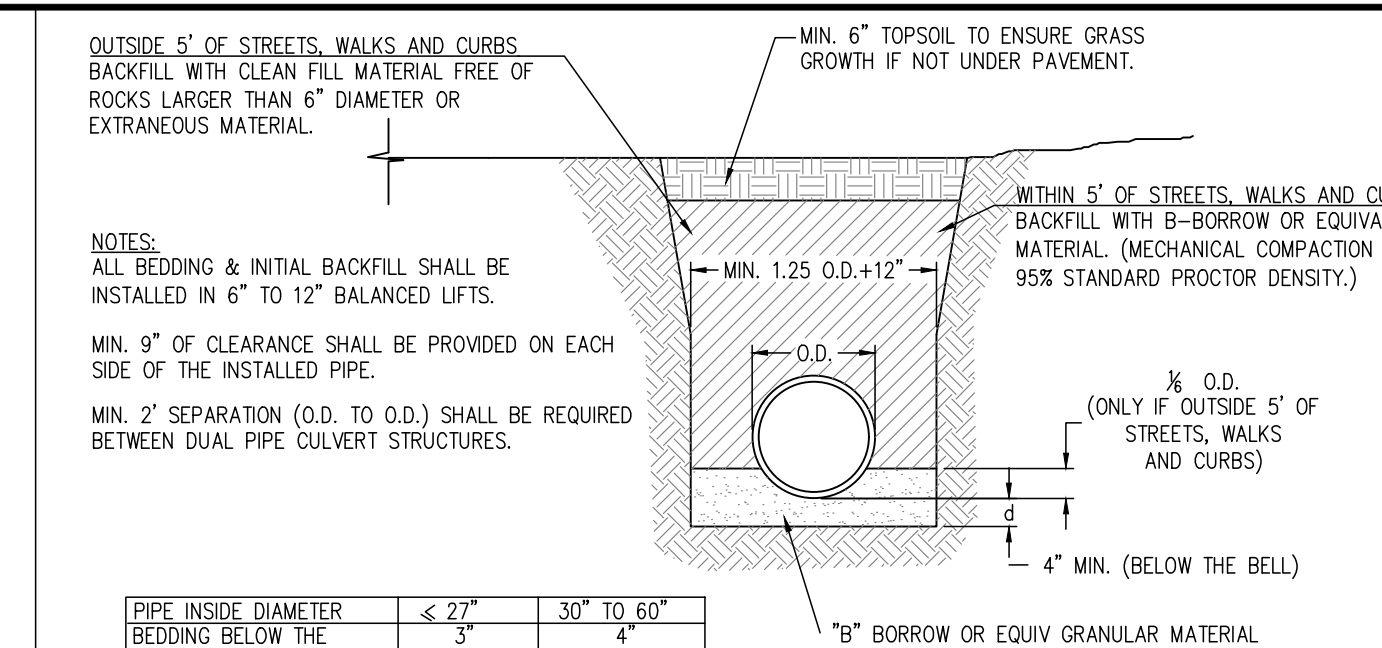
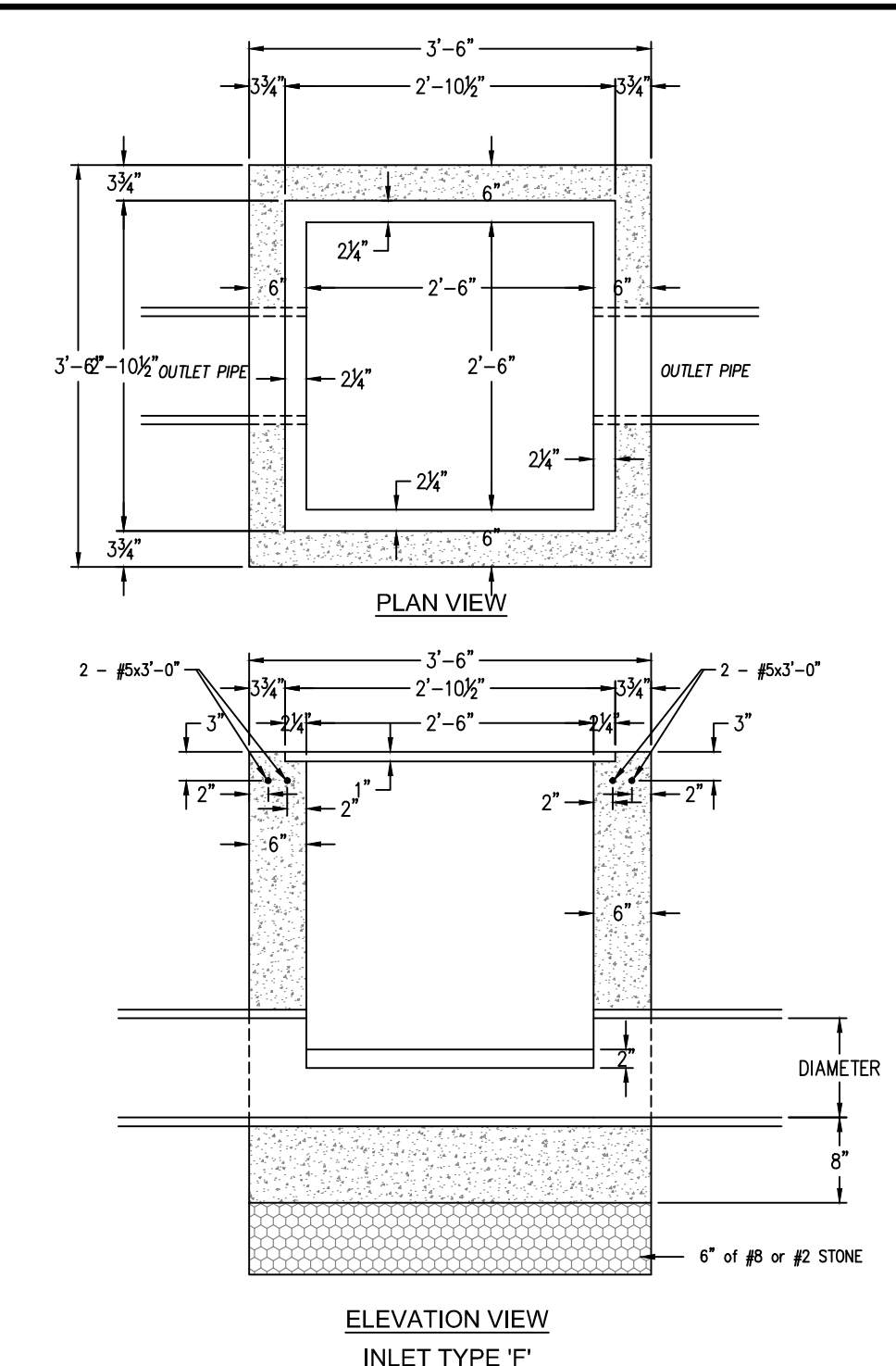
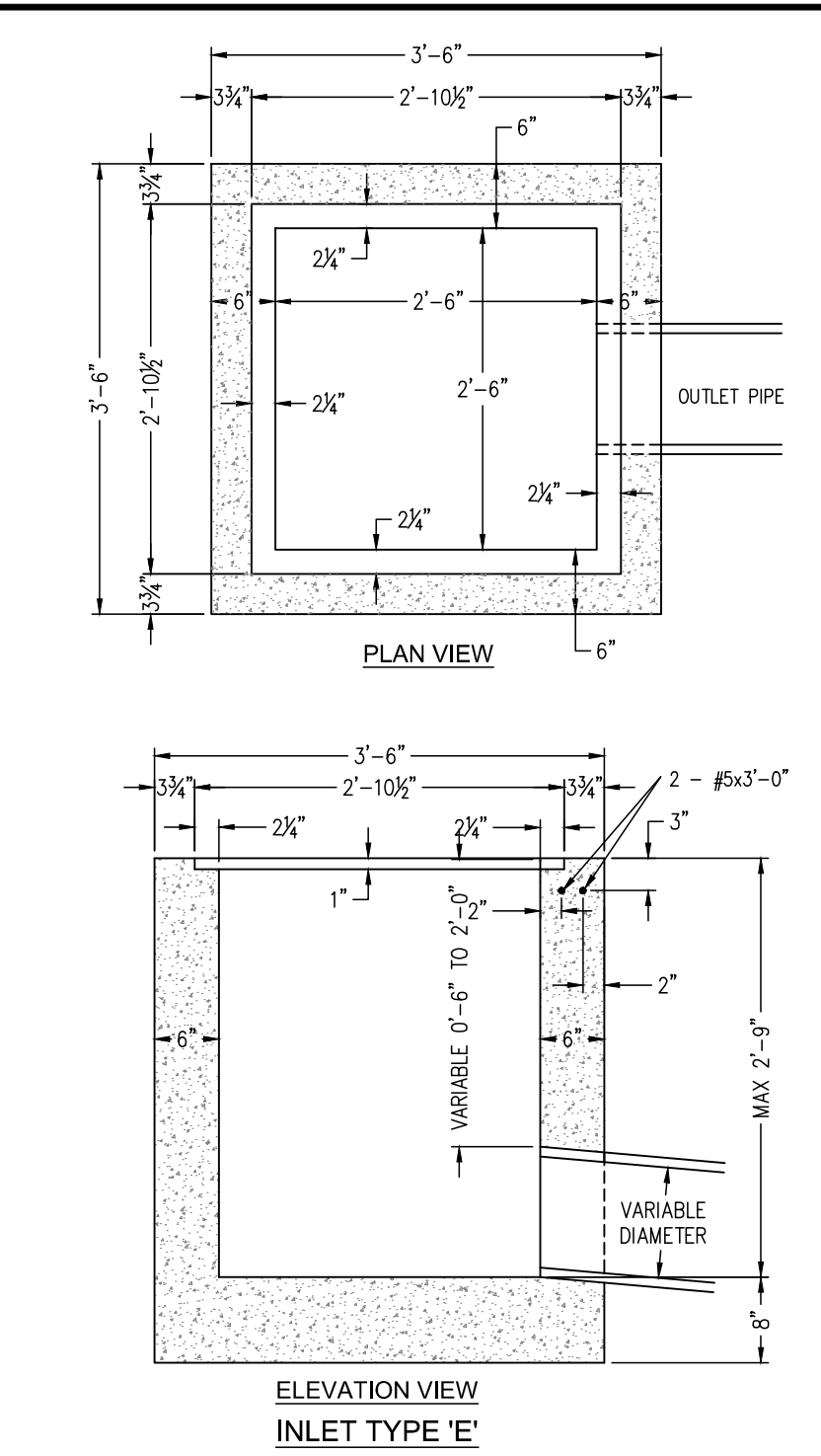
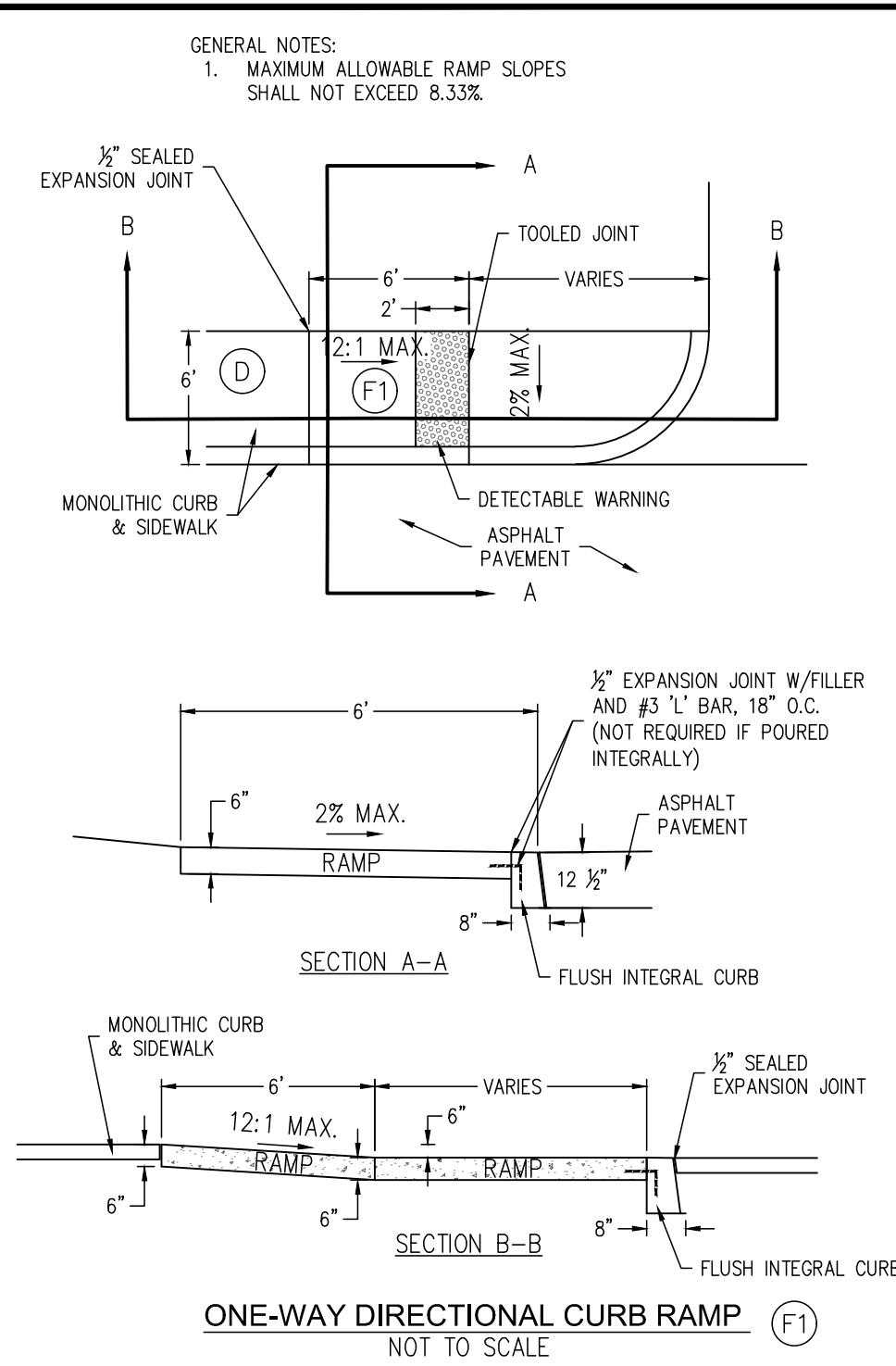
Discuss the concrete management techniques described in the BMP (such as handling of concrete waste and washout) with the ready-mix concrete supplier before any deliveries are made.

Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.

Store dry and wet materials under cover, away from drainage areas.

Avoid mixing excess amounts of fresh concrete.

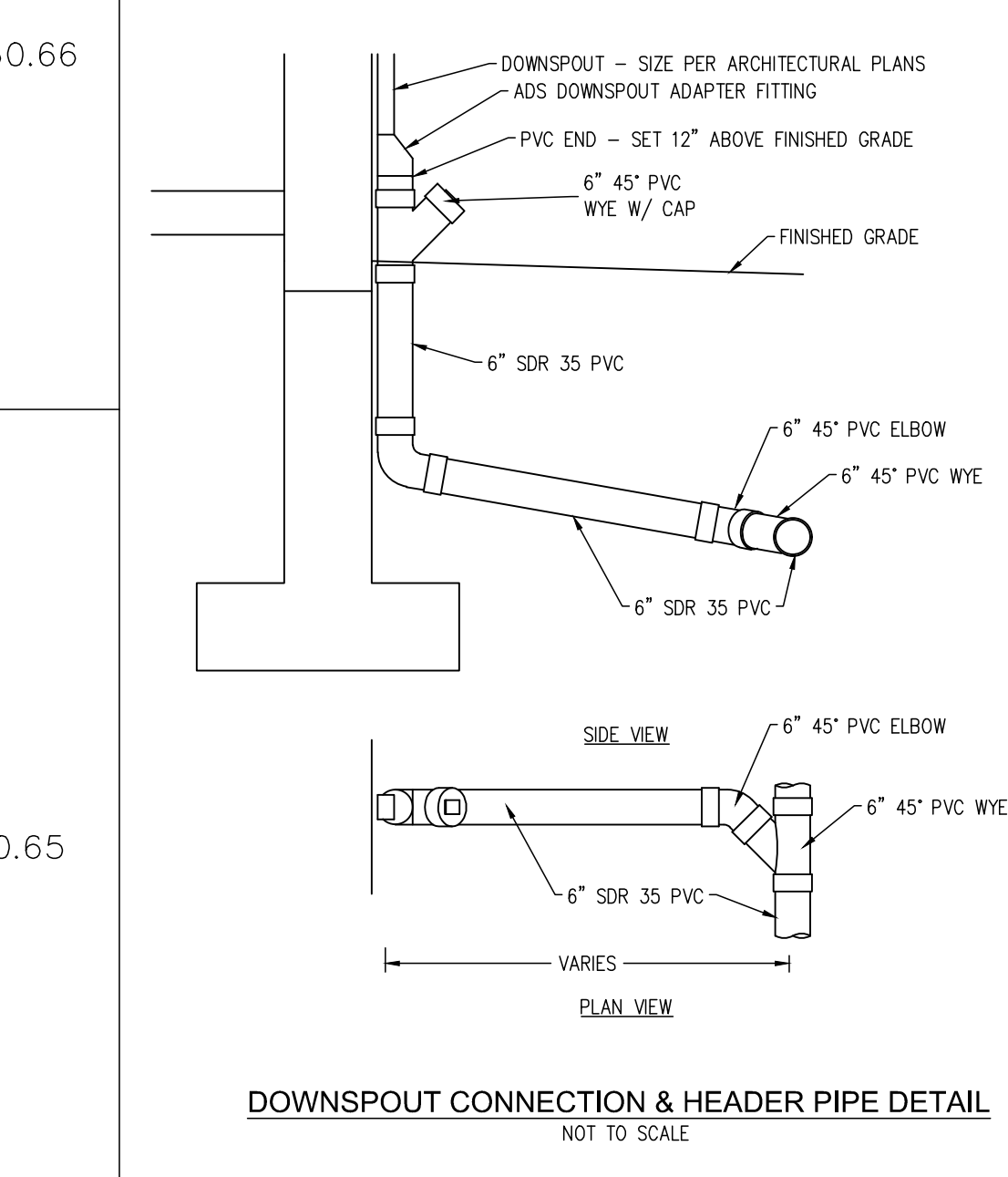
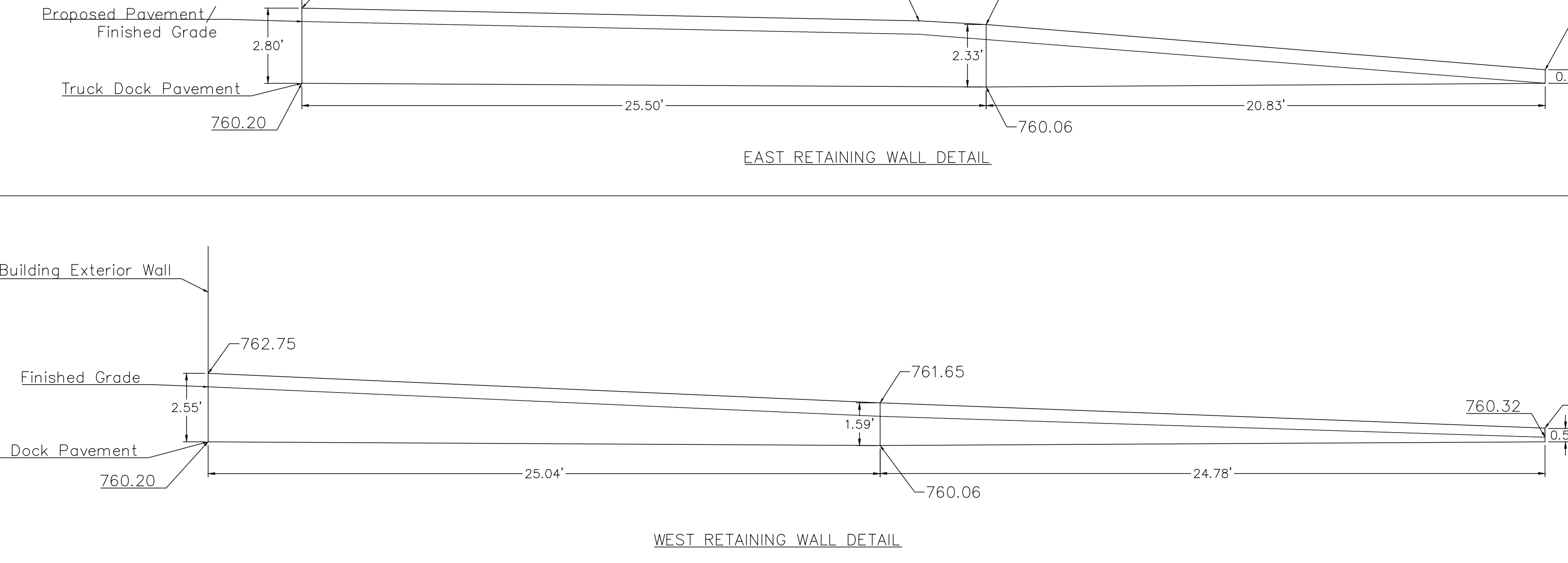
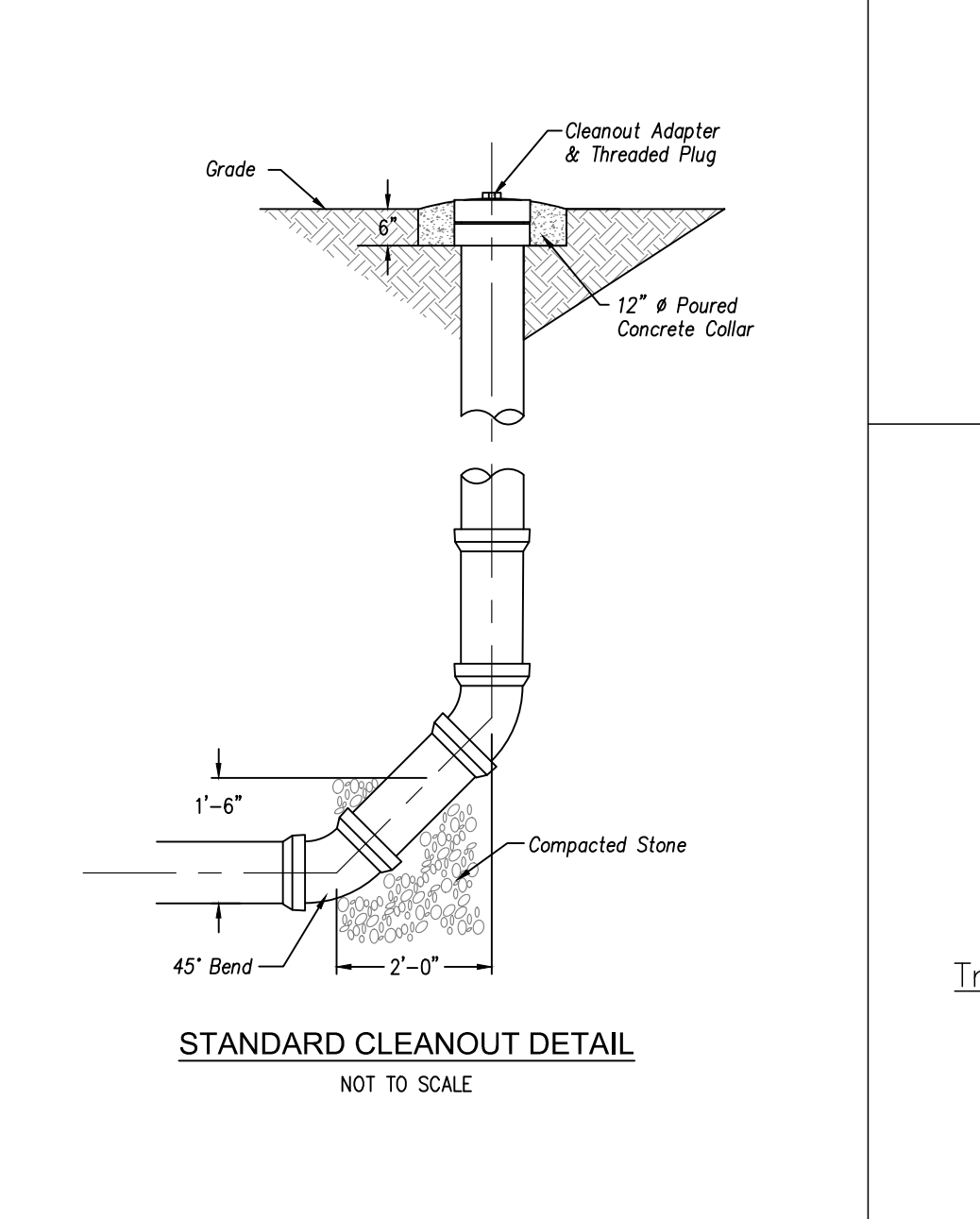
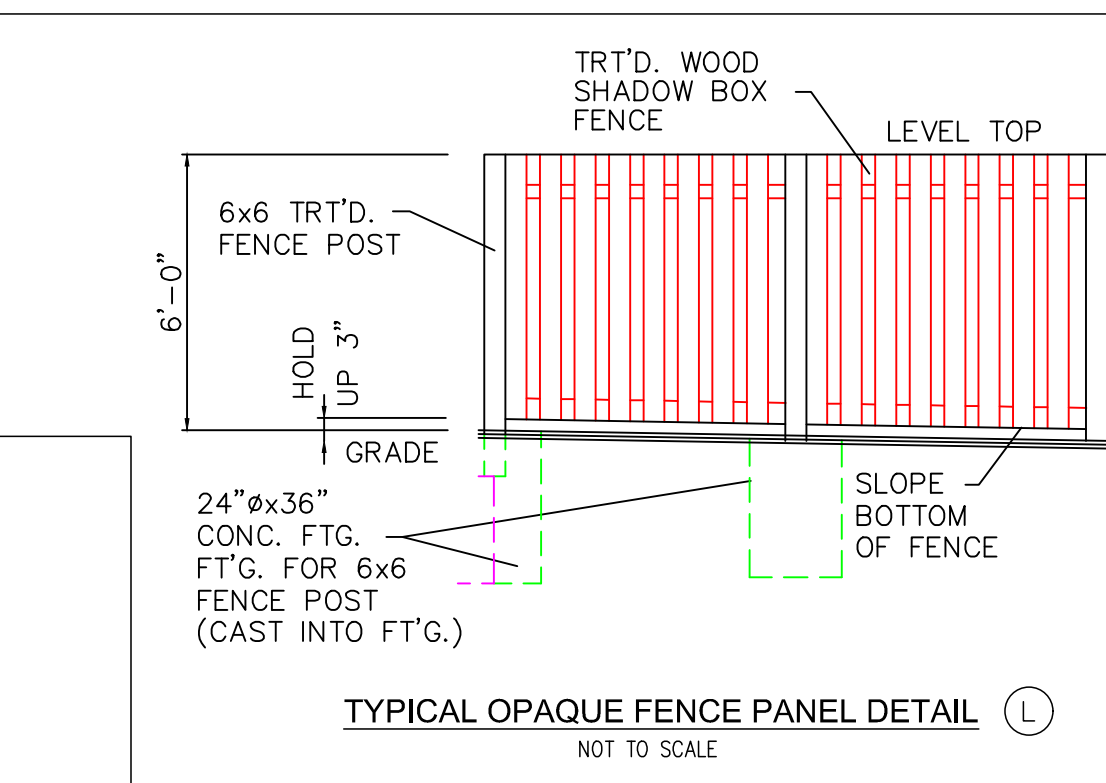
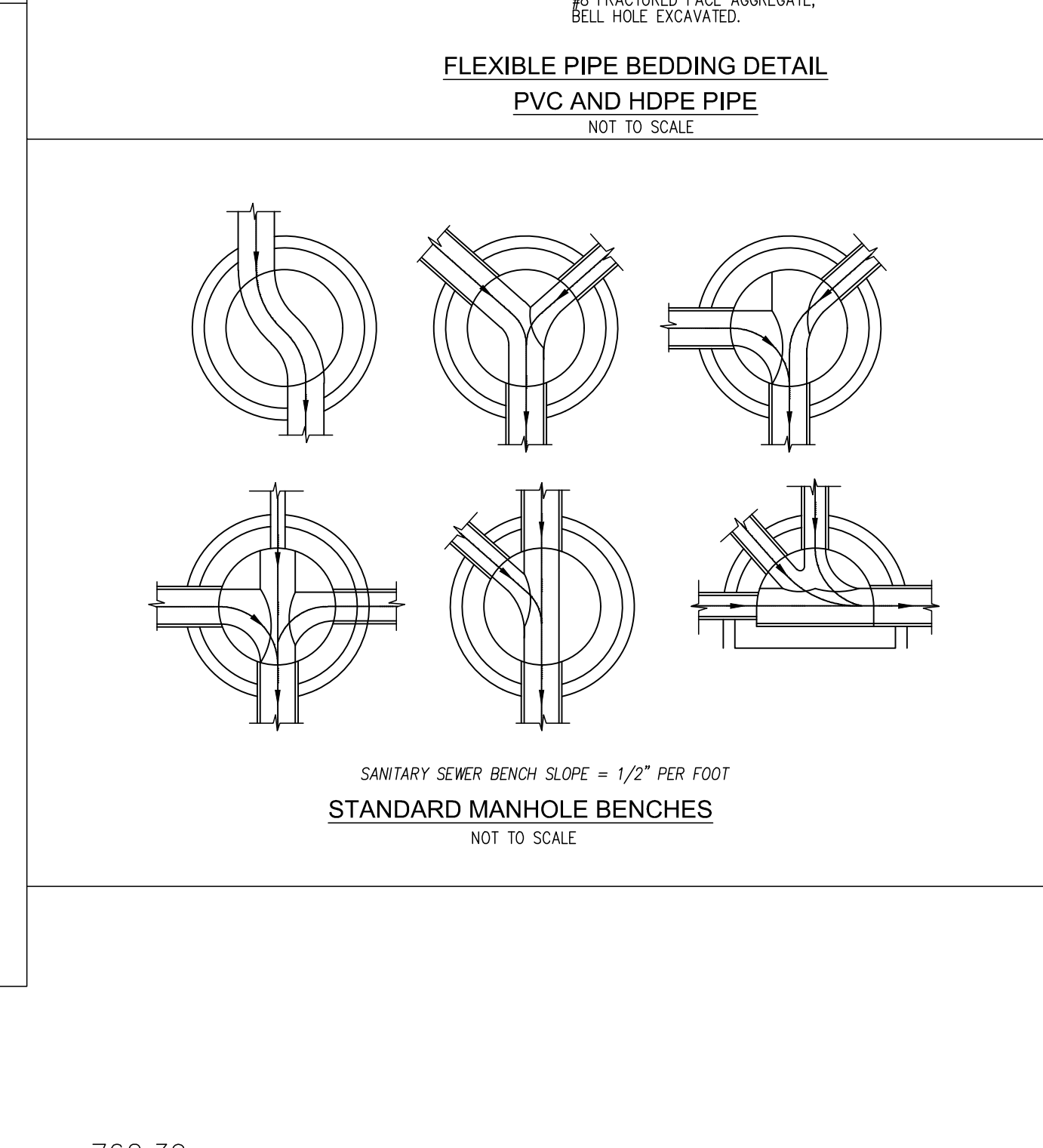
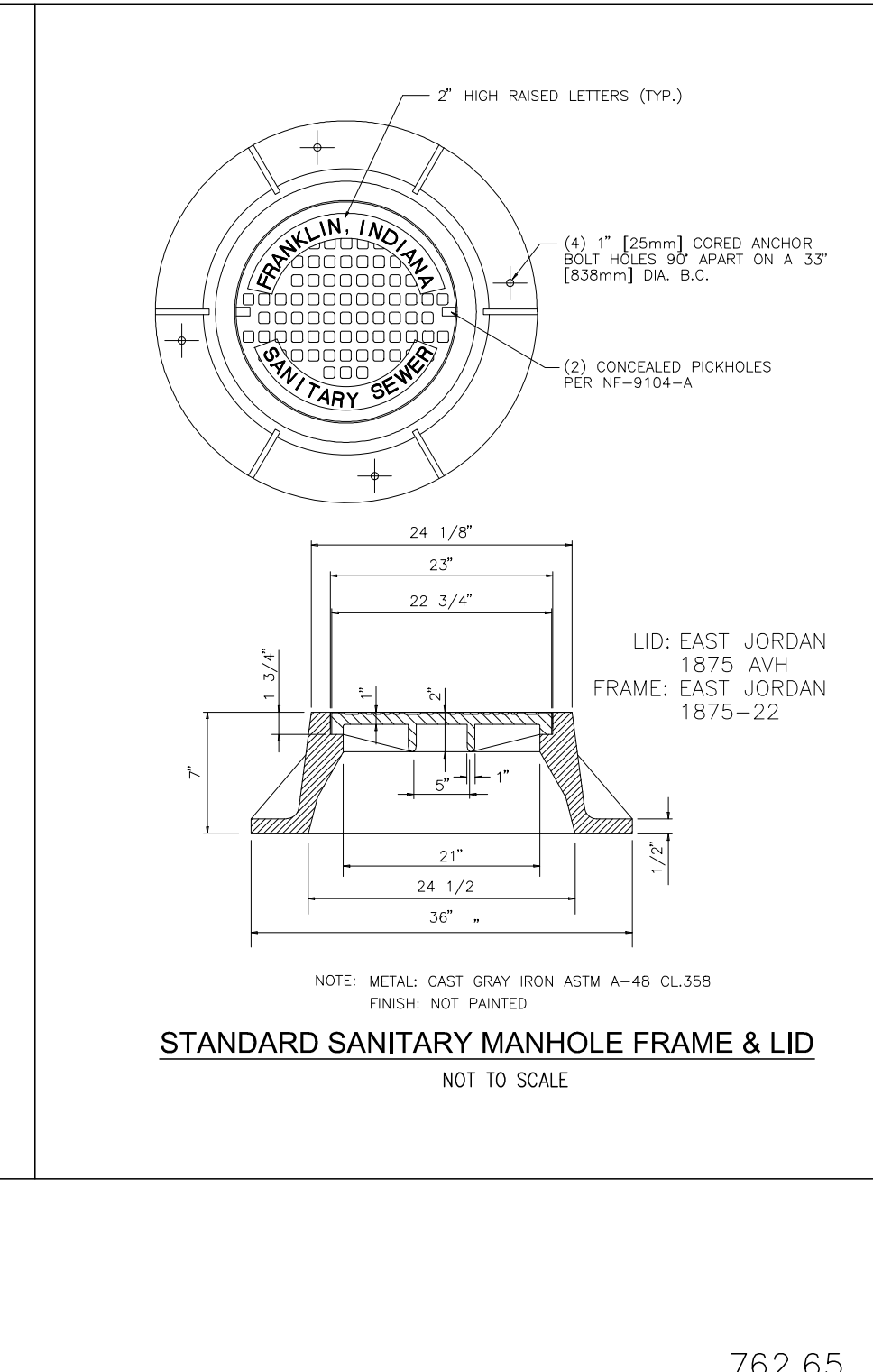
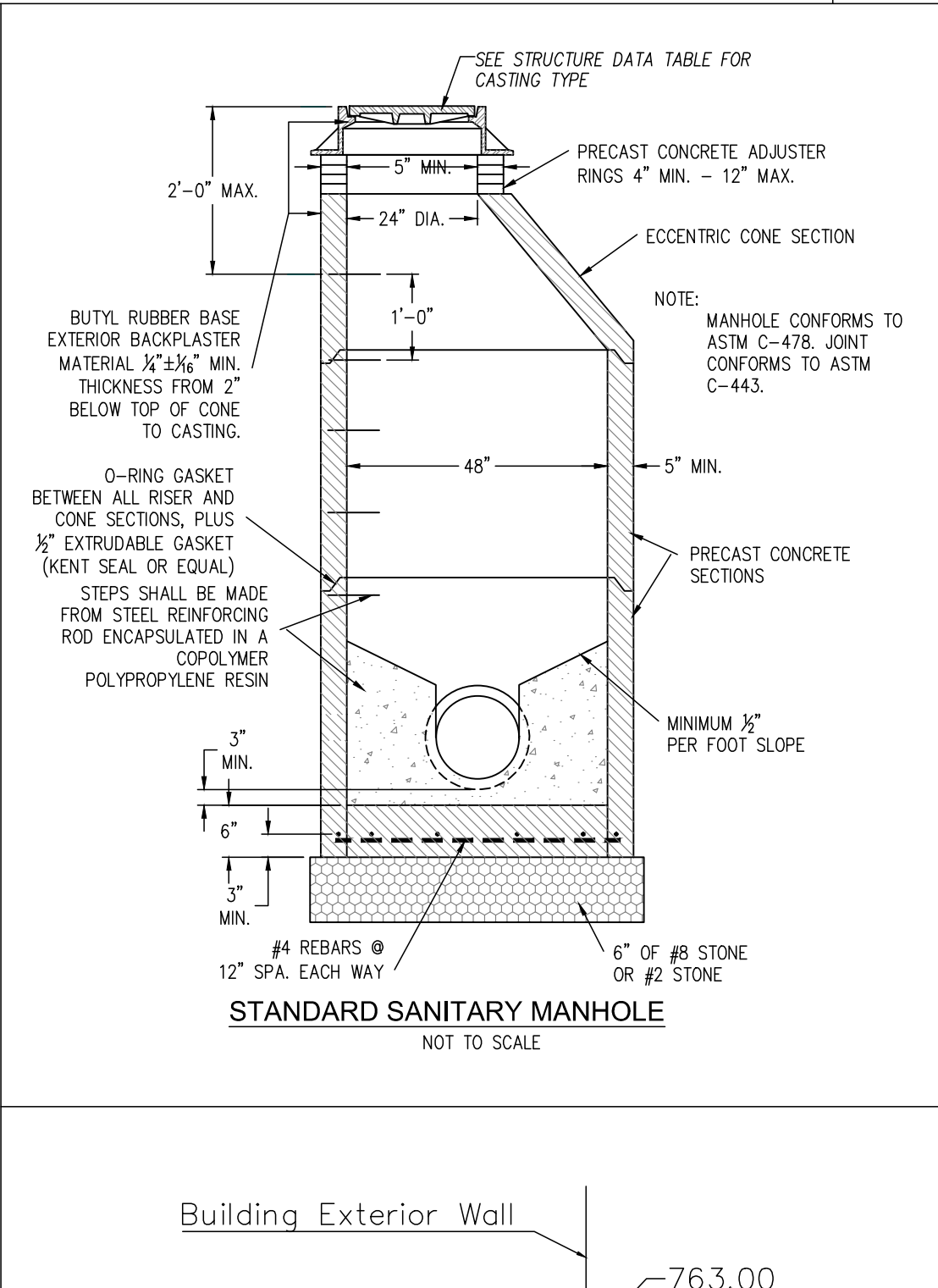
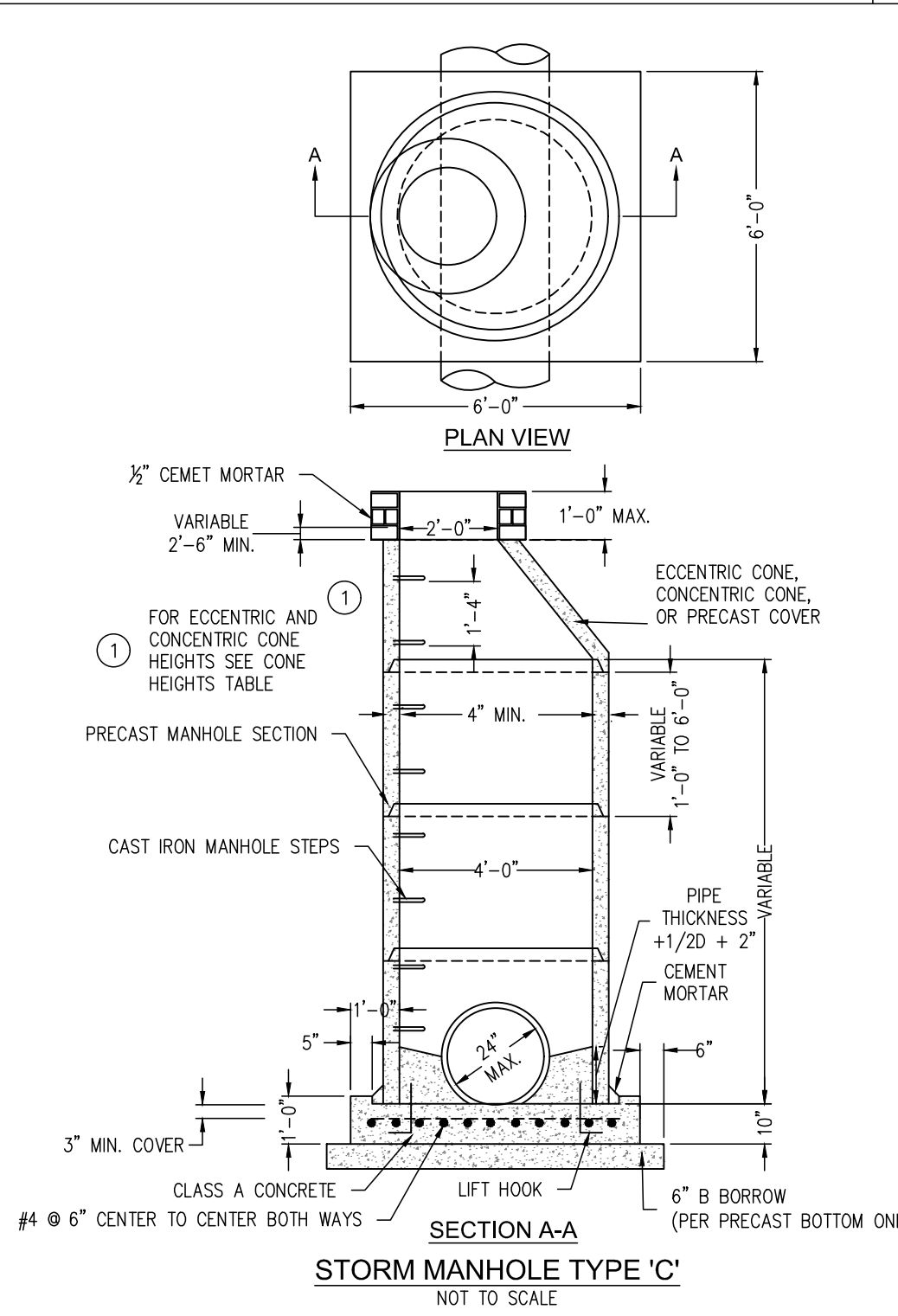
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PRECAST CONCRETE END SECTION TABLE

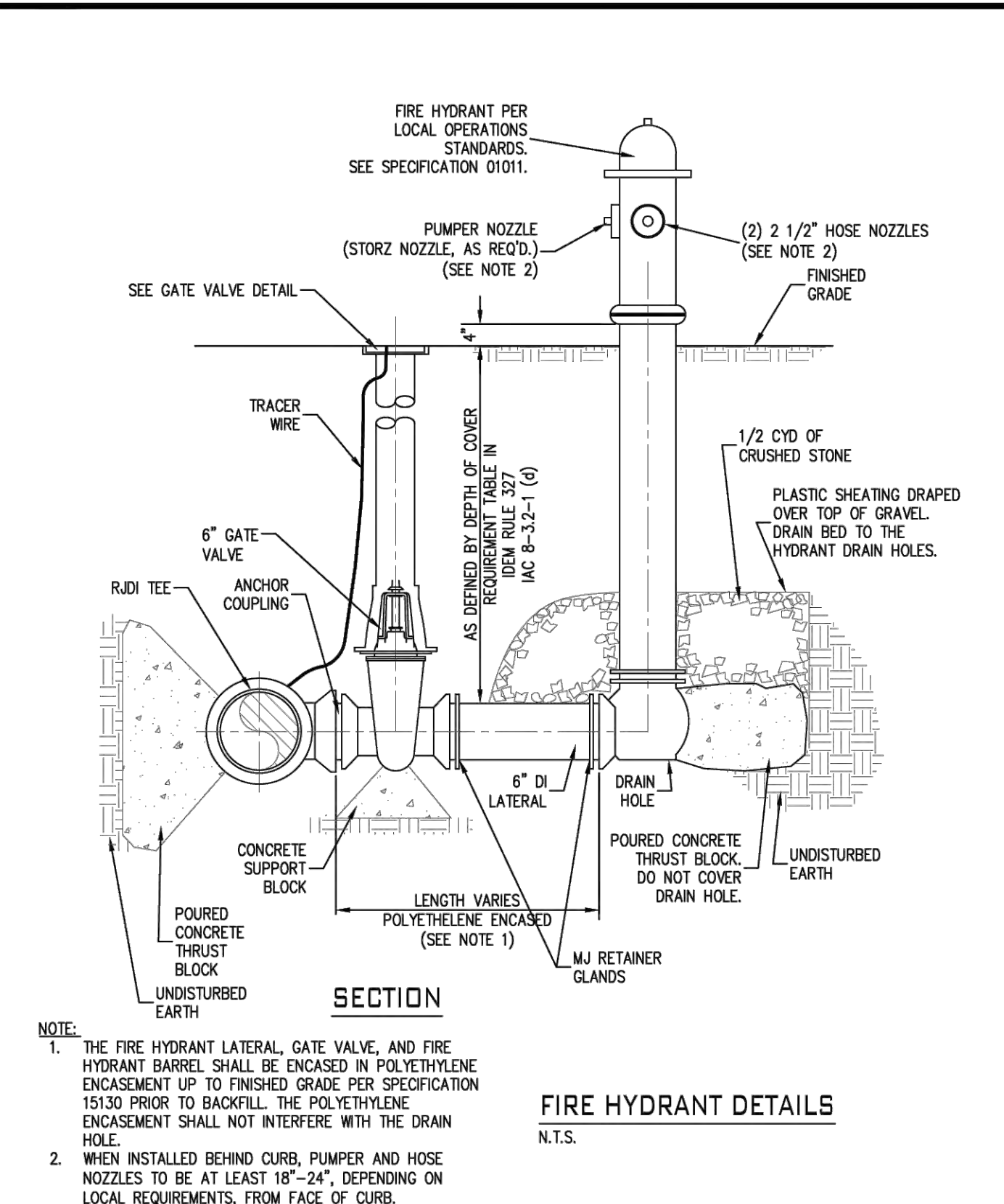
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15	2 1/4	2	740	6	27	46	7/8	73	30	16	12	1/2	3 1/2	4
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NOTES:
1. MANUFACTURE OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.



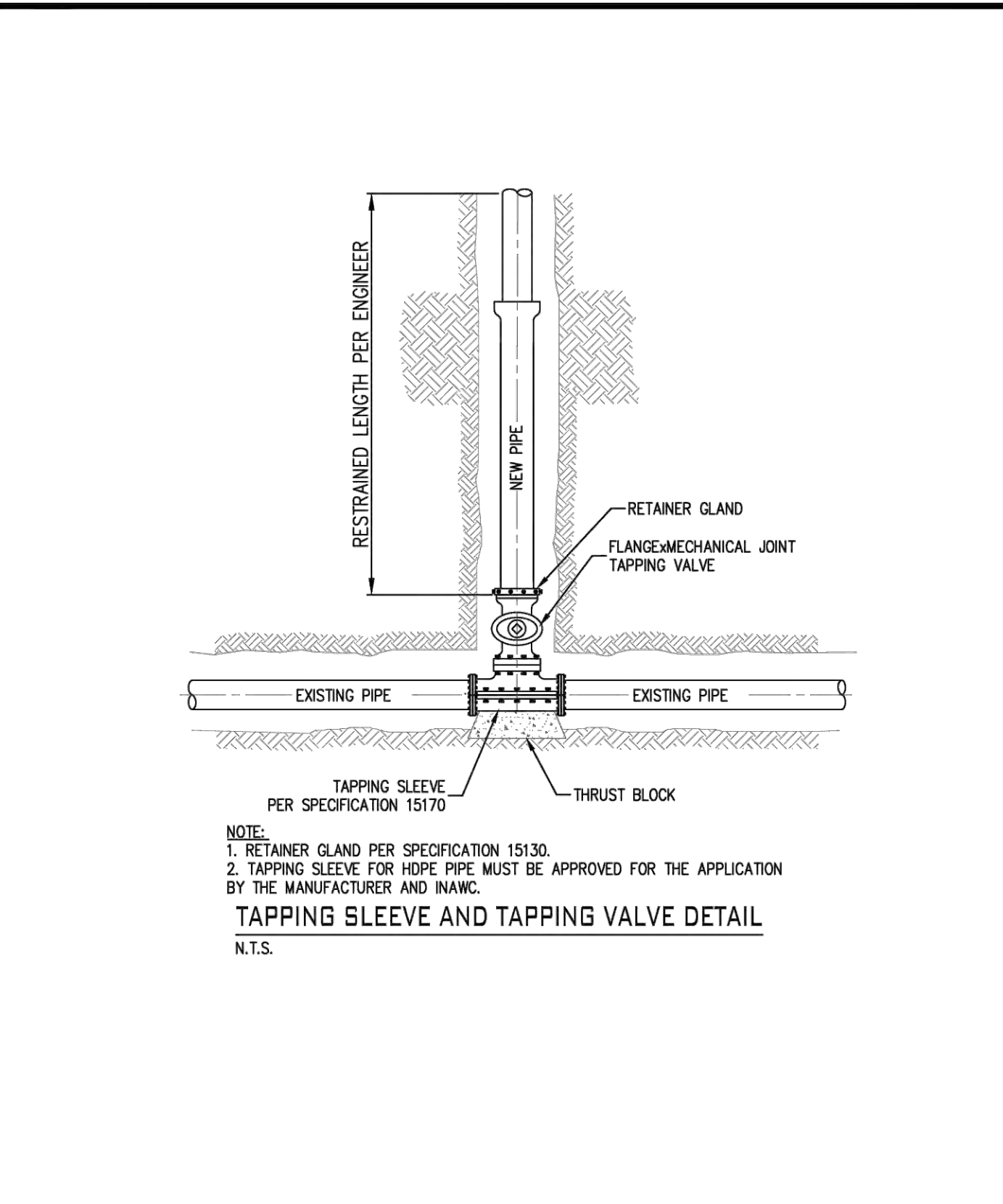
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STANDARD DETAIL
FIRE HYDRANT DETAIL

DATE: JANUARY, 2018 DRAWN BY: S. FORD
LATEST REV: JULY, 2018 APP'D BY: E.N.



STANDARD DETAIL
TAPPING SLEEVE AND TAPPING VALVE

DATE: JANUARY, 2018 DRAWN BY: S. FORD
LATEST REV: JANUARY, 2018 APP'D BY: E.N.

PIPE Ø, in (mm)	H1-H2, in (mm)	W, in (mm)	O, in (mm)	S, in (mm)	R, in (mm)	PRODUCT #
6 (150)	3.00 - 24.00 (76 - 610)	0.46 (13)				0690DSXL
8 (200)	3.00 - 24.00 (76 - 610)	0.61 (15)				0890DSXL
10 (250)	3.00 - 24.00 (76 - 610)	0.73 (19)				1090DSXL
12 (300)	3.50 - 24.00 (89 - 609)					1290DSXL
12 (300)	24.01 - 36.00 (610 - 914)	1.15 (29)				1290SDTXL
15 (375)	3.75 - 24.00 (95 - 609)					1590DSXL
15 (375)	24.01 - 36.00 (610 - 914)	1.30 (33)				1590SDTXL
18 (450)	4.00 - 24.00 (102 - 609)		5.00 (127)	2.25 (57)	0.32 (8)	1890DSXL
18 (450)	24.01 - 36.00 (610 - 914)	1.57 (40)				1890SDTXL
24 (600)	4.25 - 24.00 (121 - 609)					2490DSXL
24 (600)	24.01 - 36.00 (610 - 914)	1.86 (40)				2490SDTXL
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30 (750)	24.01 - 36.00 (610 - 914)					3090SDTXL
36 (900)	5.25 - 24.00 (133 - 609)					3690DSXL
36 (900)	24.01 - 36.00 (610 - 914)	2.85 (72)				3690SDTXL

NOTES:
1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS
2. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS AND MAY NOT RESEMBLE THE IMAGES SHOWN ABOVE.

REV. 1 Updates to dimensions KJS 05/19/2023
DESCRIPTION BY MM/DD/YY CHK'D

Duraslot XL Pipe Custom Slot Height
DRAWING NUMBER: STD-1401B

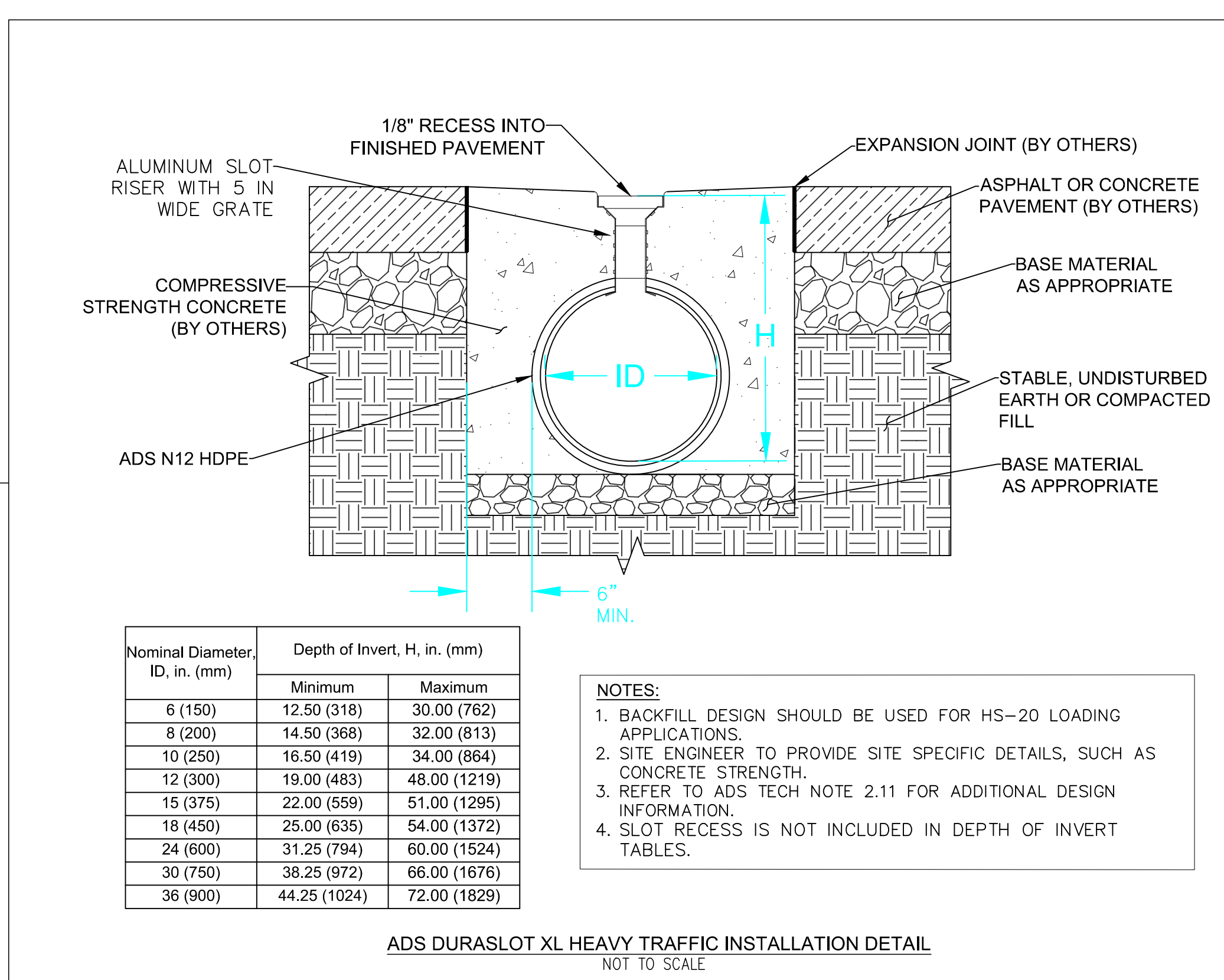
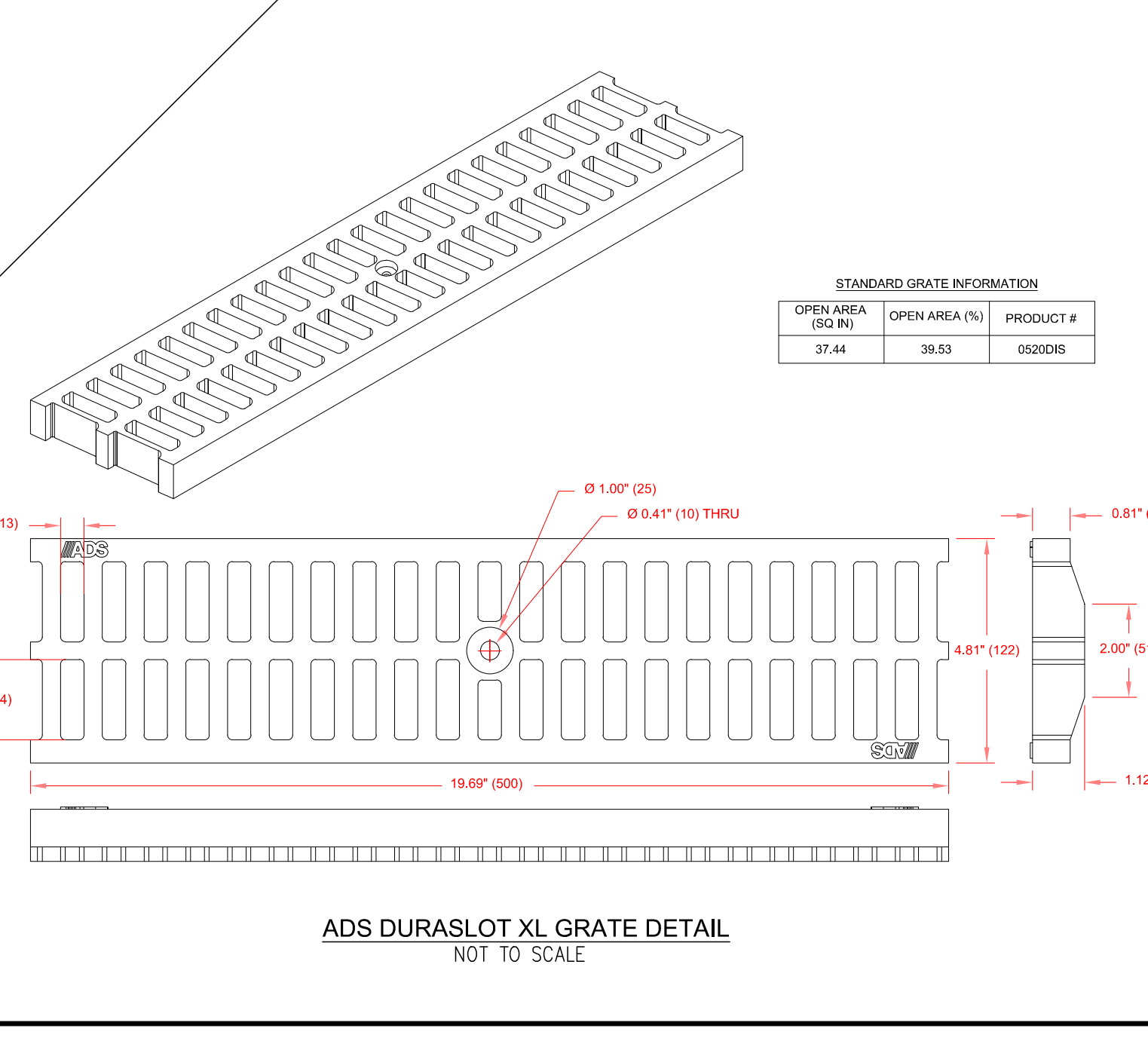
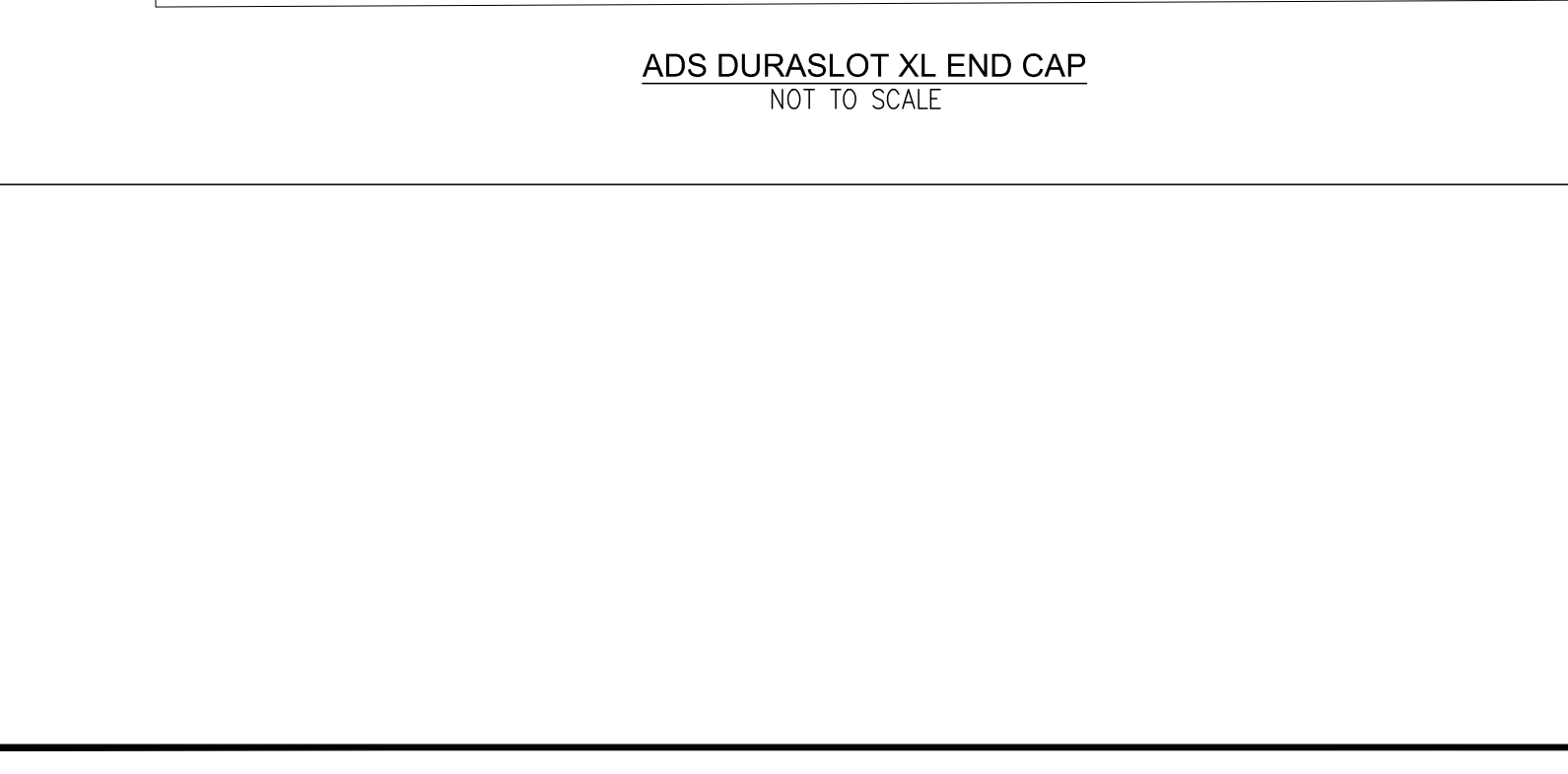
ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

SPIGOT END CAP FOR 6 & 10" PIPE DIAMETER

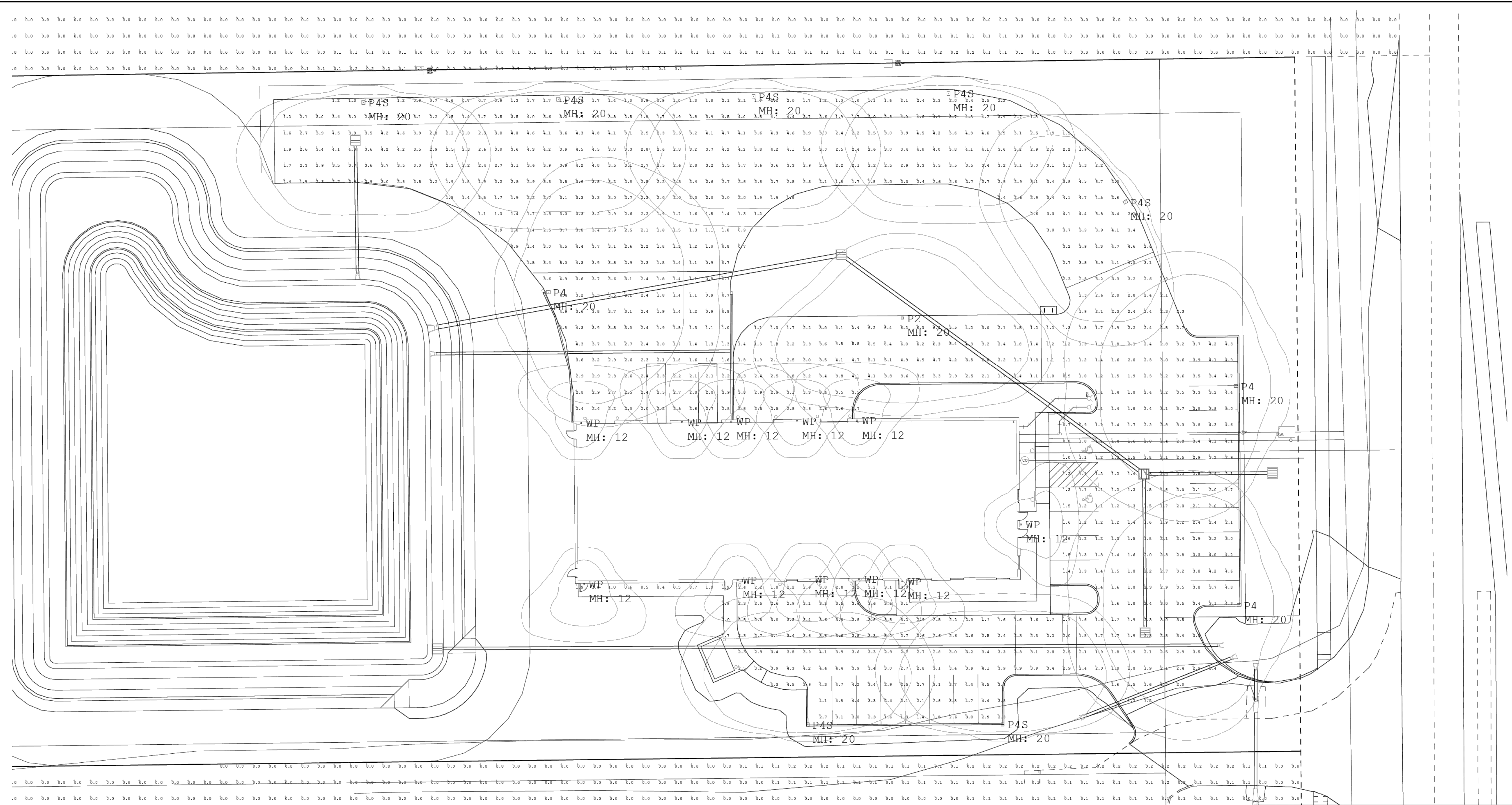
END CAP FOR DURASLOT XL DIMENSIONS

PIPE Ø, in (mm)	A, in (mm)	B, in (mm)	C, in (mm)	D, in (mm)	E, in (mm)	PRODUCT # (Std./Cust. Slot)
6 (150)	4.50 (114)	5.12 (130)	7.63 (194)	3.00 (76)	2.50 (64)	0633DSXL/ 0693DSXL
8 (200)	4.25 (108)	6.95 (177)	N/A	2.50 (64)	2.50 (64)	0833DSXL/ 0893DSXL
10 (250)	5.00 (127)	9.88 (251)	12.13 (308)	3.50 (89)	2.50 (64)	1033DSXL/ 1093DSXL
12 (300)	5.76 (146)	11.56 (294)	N/A	4.25 (108)	2.50 (64)	1233DSXL/ 1293DSXL
15 (375)	7.77 (197)	N/A	N/A	6.25 (159)	2.50 (64)	1533DSXL/ 1593DSXL
18 (450)	8.04 (204)	N/A	N/A	6.50 (165)	2.50 (64)	1833DSXL/ 1893DSXL
24 (600)	9.45 (240)	N/A	N/A	8.00 (200)	2.50 (64)	2433DSXL/ 2493DSXL
30 (750)	N/A	N/A	N/A	N/A	N/A	3033DSXL/ 3093DSXL
36 (900)	N/A	N/A	N/A	N/A	N/A	3633DSXL/ 3693DSXL

NOTES:
1. ALL FITTING DIMENSIONS ARE FOR REFERENCE ONLY.
2. ALL HARDWARE REQUIRED FOR ASSEMBLY IS INCLUDED WITH THE PURCHASE OF A COUPLER BAND, INCLUDING A SLOT END CAP.
3. THE TAYLOR END PLUG IS UTILIZED AS A PERMANENT END TREATMENT WITH DURASLOT PIPE.



DIRECTORY PATH : R:\Active\unarc+Revised\JCO_Recycle_Center\Design\CAD\Plans
 DATE/USER : 4/5/2024 3:15 PM / Broughman



1 SITE LIGHTING AND PHOTOMETRIC PLAN
 SCALE: 1/16" = 1'-0" (24 x 36 sheet)

National Lighting Vendor:
 For pricing and technical assistance contact: Rob Thomson of
 CBMC INC, tel# 317-828-4119 / rthomson@cbmcinc.com

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CBMC LIGHTING SOLUTIONS

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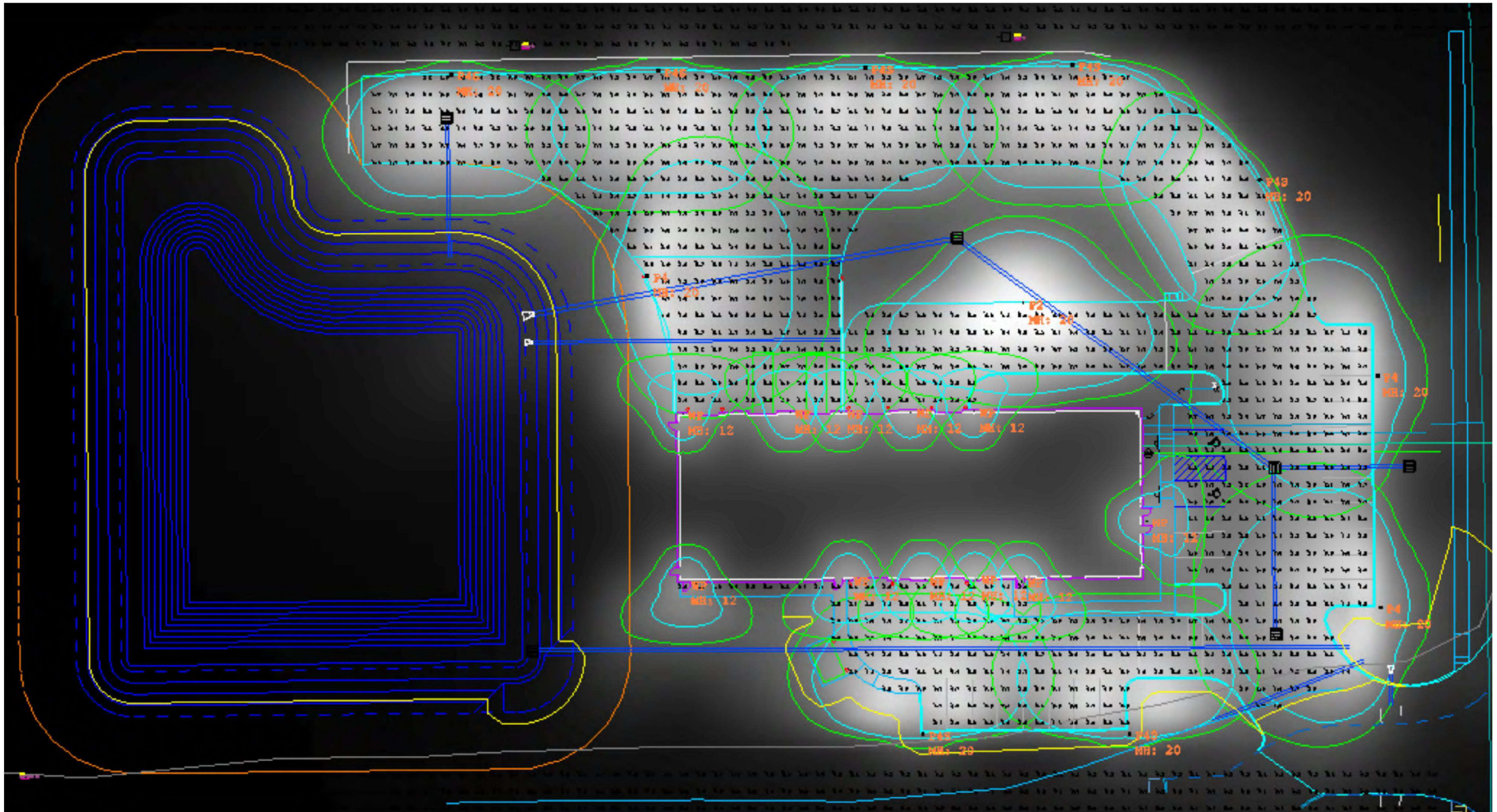


This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, location adjustments, and other variable field conditions.

Contractor to check and verify all dimensions on site before commencing any work shown.

**JOHNSON COUNTY
 RECYCLE CENTER**

SITE LIGHTING & PHOTOMETRIC PLAN	
Scale: 1/16"=1'-0"	Project No: E00
Date: 4/05/24	Drawing No: E00
Drawn By: FG	Checked By: RT
1	



1 GREY SCALE RENDERING
SCALE: NONE

National Lighting Vendor:
For pricing and technical assistance contact: Rob Thomson of
CBMC INC, tel# 317-828-4119 / rthomson@cbmcinc.com

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This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, location adjustments, and other variable field conditions.

Contractor to check and verify all dimensions on site before commencing any work shown.

**JOHNSON COUNTY
RECYCLE CENTER**

GREY SCALE RENDERING

Scale:	NONE	Project No:	E01	Revision
Date:	4/05/24	Drawing No:	E01	1
Drawn By:	FG			
Checked By:	RT			

Mirada Small Area (MRS)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Flr, PCL

QUICK LINKS

- Ordering Guide
- Performance
- Photometrics
- Dimensions

FEATURES & SPECIFICATIONS

- Construction**
- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
- Electrical**
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
 - L70 Calculated Life: >60k Hours
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
 - Power factor: > 90
 - Input power stays constant over life.
 - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Installation**
- Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
 - Utilizes LSI's traditional B3 drill pattern.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Area (MRS)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Flr, PCL

QUICK LINKS

- Ordering Guide
- Performance
- Photometrics
- Dimensions

FEATURES & SPECIFICATIONS

- Construction**
- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
- Electrical**
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
 - L70 Calculated Life: >60k Hours
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
 - Power factor: > 90
 - Input power stays constant over life.
 - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Installation**
- Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
 - Utilizes LSI's traditional B3 drill pattern.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Area (MRS)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Flr, PCL

QUICK LINKS

- Ordering Guide
- Performance
- Photometrics
- Dimensions

FEATURES & SPECIFICATIONS

- Construction**
- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 27 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70.
 - Integral lower (IL) and integral half lower (IH) options available for enhanced backlight control.
- Electrical**
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
 - L70 Calculated Life: >60k Hours
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L lumen packages rated to +40°C.
 - Power factor: > 90
 - Input power stays constant over life.
 - Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Controls**
- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Installation**
- Designed to mount to square or round poles.
 - A single fastener secures the hinged door,
- underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
 - Utilizes LSI's traditional B3 drill pattern.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP66 rated Luminaire per IEC 60598-1
 - 3G rated for ANSI C136.31 high vibration applications are qualified.
 - IK08 rated luminaire per IEC 66262 mechanical impact code
 - DesignLights Consortium™ (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Wall Sconce Silicone (XWS SIL)

Outdoor LED Wall Light



OVERVIEW	
Lumen Package (lm)	2,000 - 8,000
Wattage Range (W)	13 - 61
Efficacy Range (LPW)	126 - 162
Weight lbs (kg)	10 (4.5)

QUICK LINKS

- Ordering Guide
- Performance
- Photometrics
- Dimensions

FEATURES & SPECIFICATIONS

- Construction**
- Rugged die-cast aluminum housing.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Extended housing available with 1/2" threaded hubs for surface conduit and rated wire.
 - Standard luminaire shipping weight: TBD lbs in carton.
 - Max luminaire shipping weight: 12 lbs in carton (20 lbs w/EH option)
- Optical System**
- State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving fixture reliability.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, and FT.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
 - Zero uplight.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
 - Minimum CRI of 70
- Electrical**
- High-performance driver features over-voltage under-voltage, short-circuit, and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
 - L70 Calculated Life: >60k Hours
 - Total harmonic distortion (THD): <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F).
 - Power factor (PF): >90
 - Input power stays constant over life.
 - Optional 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Driver is fully encased in potting material for moisture resistance. Driver complies with FCC standards. Accessible driver and electrical components.
 - Optional battery backup provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. Standard battery rated for 0°C to 50°C with cold weather battery rated for -20°C to 50°C (40°C max for 8L). 120-277V Only.
- Controls**
- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via IOS or Android configuration app.
 - Optional button photocell turns fixtures on and off based on ambient light levels for dusk to dawn lighting.
- Installation**
- Universal wall mounting plate mounts directly to vertical surface or 4" junction box (octagonal or square).
 - Luminaire hinges to the top of the mounting plate and is secured via two flush mount screws that help to conceal the hardware and prevent over tightening during installation.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - IDA compliant, with 3000K color temperature selection.
 - Title 24 Compliant; see local ordinance for qualification information.
 - RoHS compliant
 - Suitable for wet locations.
 - IP65 rated luminaire per IEC 60598-1
 - IK08 rated luminaire per IEC 66262 mechanical impact code.
 - DesignLights Consortium™ (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

All electrical work shall comply with National, State, and Local codes including and not limited to the National Electric Code, NFPA 101 Life Safety Code, ASHREA and /or IECC Energy Codes.

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Contractor to check and verify all dimensions on site before commencing any work shown.

JOHNSON COUNTY
 RECYCLE CENTER

National Lighting Vendor:
 For pricing and technical assistance contact:
 Rob Thomson of CBMC INC, tel# 317-828-4119
 / rthomson@cbmcinc.com

SITE LIGHTING DETAILS

Scale:	1/16" = 1'-0"	Project No:	E00	Revision
Date:		Drawing No:		
Drawn By:	4/05/24	FC		
Checked By:		RT		

E02

1

GENERAL NOTES

- 1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The Structural Engineer of Record will not advise on, nor issue direction on, any safety precautions and regulations... 2. The Structural Drawings herein represent the finished structure... 3. The Structural Engineer of Record (SER) shall not be responsible for the methods, techniques and sequences... 4. Drawings indicate general and typical details of construction... 5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the supplier's instructions and requirements... 6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members... 7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless otherwise noted... 8. Shop drawings and other items shall be submitted to the Structural Engineer of Record (SER) for review prior to fabrication... 9. Submit Shop Drawings in electronic PDF format... 10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to comments made in the previous submittal... 11. When calculations are included in the submittal for components of work designed and certified by a Specialty Structural Engineer (SSE)... 12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof... 13. The Contractor may be held, notched, or otherwise induced in strength without written direction from the Structural Engineer of Record... 14. When modifications are proposed to structural elements under the design and certification of a Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Structural Engineer of Record prior to performing the proposed modification.

COORDINATION WITH OTHER TRADES

- 1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and conveyors, etc., and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question... 2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications... 3. There shall be vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the Structural Engineer of Record... 4. Mechanical and electrical openings through supported slabs and walls, 8" diameter or larger, not shown on the Structural Drawings must be approved by the Structural Engineer of Record (SER) prior to fabrication... 5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings and the Mechanical and Electrical Contractors... 6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings... 7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck or wood roof sheathing... 8. The Mechanical Contractor shall verify that mechanical units supported by the steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings... 9. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

SPECIALTY STRUCTURAL ENGINEERING (SSE)

- 1. A Specialty Structural Engineering is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record, who performs Structural Engineering services necessary for the structure to be completed and who has shown experience and/or training in the Specialty Specification... 2. It is the Specialty Structural Engineer's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering... 3. The intent of the Drawings and Specifications is to provide sufficient information for the Specialty Structural Engineer (SSE) to perform his design and analysis... 4. The Specialty Structural Engineer (SSE) shall forward documents to the Structural Engineer of Record for review... A) Drawings introducing engineering input, such as defining the configuration of structural capacity of structural components and/or their assembly into structural systems... B) Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input data information to permit their proper evaluation... C) Temporary and Permanent Retention Systems... D) Strapping and Bracing Systems... E) High-Performance Concrete Mix Designs... F) Steel Stairs... G) Pre-engineered Wood Wall Panels... 5. When modifications are proposed to elements under the design and certification of the Specialty Structural Engineer (SSE), written authorization by the SSE must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

FOUNDATIONS

- 1. Proofroll slab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil... 2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 95% of the Modified Proctor maximum dry density (ASTM D-1557)... 3. Compaction shall be accomplished by placing fill in approximate 8" lifts and mechanically compacting each lift to at least the specified minimum dry density... 4. Column footings and wall footings to bear on firm natural soils or well-compactd engineered fill with allowable bearing pressures of XXXX PSF and XXXX PSF for column and wall footings respectively, as outlined in the Subsurface Investigation Report... 5. It is essential that the foundations be inspected to insure that all loose, soft, or otherwise undesirable material (such as organics, existing uncontrolled fill, etc.) is removed and that the foundations will bear on satisfactory material... 6. Place footings on same day the excavation is completed... 7. The Contractor shall lay out the entire building and field verify all dimensions prior to excavation... 8. For information regarding subsurface conditions, refer to the Subsurface Investigation & Foundation Remediation Report... 9. The recommendations in the report will be updated on these drawings when the report has been received.

DESIGN CRITERIA

- 1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows: General: The 2014 Indiana Building Code (2012 International Building Code (IBC) with Amendments) Concrete: ACI 318 Masonry: ACI 530 Wood: NDS All referenced standards and codes, as well as ASTM numbers, are for the editions of these publications referenced in the Building Code listed above, unless otherwise noted... 2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairways, roof partitions, finishes, cladding and other structural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and feed service equipment, including the weight of cranes... 3. LIVE LOADS: Gravity live loads used in the design of the structure meet, or exceed the following table (IBC 2012, 1607.1)...

Table with 3 columns: OCCUPANCY OR USE, UNIFORM (PSF), and CONCENTRATED (LB/ [FOOT 2])

- 4. HANDRAILS AND GUARDS A. Handrails Assemblies and Guards 50 PLF applied in any direction 200 LB concentrated load applied in any direction (non-concurrent with 50 PLF load) 50 LB horizontally applied normal load on an area not exceeding 1 square foot not superimposed with those of handrail assemblies... B. Components, Intermediate Rails, Balusters, Fliers, Etc.

- 5. ROOF LIVE/WEAR LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:

Table with 3 columns: Snow Load, Wind Exposure Category, Risk Category, and Minimum Roof Live Load

- 6. LATERAL LOADS: Lateral loads were computed using the following criteria: A. Wind Load: Ultimate Design Wind Speed, Vult 115 MPH Nominal Design Wind Speed, Vnd 89 MPH Wind Exposure Category II Internal Pressure Coefficient, GCp 0. ± 0.18 B. Seismic Load: Site Classification D Seismic Importance Factor, I 1.0 Seismic Design Response Acceleration, Sa Mapped Spectral Response Acceleration, S1 0.089 Design Spectral Response Acceleration, Sds 0.176 Design Spectral Response Acceleration, Sd1 0.143 C. Seismic Design Category, SDC C Response Modification Factor, R 5.0 Equivalent Lateral Force Coefficient, Fc 0.09 Base Seismic Force-Resisting System (ASCE 7-10, Table 12.2-1) B. Seismic Load: Site Classification D Seismic Importance Factor, I 1.0 Seismic Design Response Acceleration, Sa Mapped Spectral Response Acceleration, S1 0.089 Design Spectral Response Acceleration, Sds 0.176 Design Spectral Response Acceleration, Sd1 0.143 C. Seismic Design Category, SDC C Response Modification Factor, R 5.0 Equivalent Lateral Force Coefficient, Fc 0.09 Base Seismic Force-Resisting System (ASCE 7-10, Table 12.2-1)

CONCRETE REINFORCING

- 1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305... 2. Reinforcing steel shall conform to ASTM A616, Grade 60, unless noted... 3. Welded wire fabric shall conform to ASTM A1064, unless noted... 4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details... 5. Reinforcement in footings, walls and beams shall be continuous... 6. Reinforcement shall be supported and secured against displacement in accordance with the CRSI Manual of Standard Practice... 7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 Details and Detailing of Concrete Reinforcement and ACI 318R Manual of Reinforcing and Fixing Drawings for Reinforced Concrete Structures, unless otherwise indicated... 8. Spread reinforcing steel around main springs and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the nominal spacing... 9. Provide individual high chairs with support bars, as required for the footing, top reinforcement for supported slabs... 10. Provide snap-up plastic space wheels to maintain required concrete cover for vertical wall reinforcement... 11. Where walls are on column footings, provide dowels for the wall... 12. Where walls are on the application surfaces, install dowels in the footing forms before concrete is placed... 13. Field bending of reinforcing steel is prohibited, unless noted on drawings... 14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note:

Table: MINIMUM COVER FOR REINFORCEMENT. Columns: FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, OR WEATHER; EXPOSED TO EARTH, WATER, SEWAGE, OR WEATHER; FOR DRY CONDITIONS; FOR DRY CONDITIONS - WALLS

CONCRETE MIX CLASSES

Table: CONCRETE MIX CLASSES. Columns: COMPRESSION STRENGTH, MAXIMUM WATER-REDUCING RATIO, AIR CONTENT, WATER-REDUCING ADMIXTURE, SLUMP, INTERIOR CONCRETE SLABS, EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW, LEAN CONCRETE FILL

- 1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements not otherwise covered by the Plans and Specifications... 2. Cold weather concreting shall be in accordance with ACI 308... 3. Hot weather concreting shall be in accordance with ACI 305... 4. Certified Testing Agency: The contractor shall provide a testing laboratory including measurement of slump, air temperature, concrete cylinder testing, etc., to ensure conformance with the Contract Documents... 5. Finishing of Slabs: After screeding, bull dozing and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast-In-Place Concrete Specification of the Project Manual... 6. Saw or tooled contraction joints shall be provided in all slabs on grade... 7. The Contractor shall coordinate with the Structural Engineer of Record before starting concrete work to establish a satisfactory placing schedule and to determine the effects of contraction joints so as to minimize the effects of shrinkage in the floor system... 8. Slump: MIXES CONTAINING TYPE A WIRDA: MINIMUM CONTAINING LOW-RANGE WIRDA: MIXES CONTAINING HIGH-RANGE WIRDA: 5" MAXIMUM 5 1/2" 5" 8"

FINISH FLOORS AND SLABS

- 1. Comply with recommendations of ACI 302.1R for screeding, restraining, and finishing operations for concrete surfaces... 2. Deposit and consolidate concrete floors and slabs in a continuous operation... 3. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement... 4. Maintain reinforcement in position on chairs during concrete placement... 5. Broom slab surfaces to concrete placement with a straightedge and strike off... 6. Slope slab surfaces uniformly to drains where required... 7. Begin initial floating using footings or dories to form a uniform and open-textured surface plan, free of rumps or hollows, before access moisture or bleedwater appears on the surface... 8. Finish slab surfaces before starting finishing operations... 9. Unless otherwise specified in the Contract Documents, the minimum F10 and F15 numbers shall be met... 10. Scratch Finish: When not plastic, texture concrete surfaces that have been screeded and bulkheaded or dished... 11. Option: Finish and measure surface so gap at any point between concrete surface and an unviewed freestanding 10' foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4"... 12. Option: Finish and measure surface so gap at any point between concrete surface and an unviewed freestanding 10' foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4"...

- 13. Field bending of reinforcing steel is prohibited, unless noted on drawings... 14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note: (See MINIMUM COVER FOR REINFORCEMENT table) 15. Option: Finish and measure surface so gap at any point between concrete surface and an unviewed freestanding 10' foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4"... 16. Option: Finish and measure surface so gap at any point between concrete surface and an unviewed freestanding 10' foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4"...

PRE-ENGINEERED METAL BUILDING (PEMB) NOTES

- 1. The entire PEMB system shall be designed by the PEMB Manufacturer in conformance with the provisions of the 2014 Indiana Building Code and the "Low Rise Building Systems Manual" as published by the Metal Building Manufacturers' Association... 2. The PEMB Manufacturer shall be certified by the American Institute of Steel Construction (AISC), Category MB... 3. The foundation design is based upon the Nucor Building System... 4. The size, number and pattern of all anchors bolts shall be determined by the PEMB Manufacturer... 5. The PEMB Manufacturer shall submit shop drawings of the entire PEMB system for review... 6. Design criteria and loading to be used in the design of the PEMB shall match those shown in the "Design Load Criteria" section of the structural notes... 7. Calculations for frame members shall be performed using only the Bare Frame Method... 8. The PEMB shall be designed to resist lateral loads as follows: A. Interior Frame Lines: Rigid Frames with Diagonal Bracing or Cable Bracing... B. Endwall Frame Lines: Rigid Frames with Pinned Roof or Cable Bracing... C. Expandable Endwall Frame Lines: Full-Load Rigid Frame w/ Pinned Bases & Removable Wind Columns... D. Sideload Parallel to Eaves: Diagonal Rod Cable Bracing, or Portal Frames... E. Wall Girts w/ Brtite Cladding: L6030... F. Wind Braces - Flexible Cladding: L6030... G. Wind Braces - Brtite Cladding: L6030... H. Wind Columns - Flexible Cladding: L2400... I. Wind Columns - Flexible Cladding: L2400... J. Wind Columns - Brtite Cladding: L400

- 9. Denotes the span of the element between supports... 10. For 50-year wind values, use 75% of the 50-year wind pressure... 11. The PEMB shall be designed to resist lateral loads as follows: A. Interior Frame Lines: Rigid Frames with Diagonal Bracing or Cable Bracing... B. Endwall Frame Lines: Rigid Frames with Pinned Roof or Cable Bracing... C. Expandable Endwall Frame Lines: Full-Load Rigid Frame w/ Pinned Bases & Removable Wind Columns... D. Sideload Parallel to Eaves: Diagonal Rod Cable Bracing, or Portal Frames... E. Wall Girts w/ Brtite Cladding: L6030... F. Wind Braces - Flexible Cladding: L6030... G. Wind Braces - Brtite Cladding: L6030... H. Wind Columns - Flexible Cladding: L2400... I. Wind Columns - Flexible Cladding: L2400... J. Wind Columns - Brtite Cladding: L400

STRUCTURAL WOOD PANEL/SHEATHING NOTES

- 1. All plywood and Oriented Strand Board (OSB) construction shall be in accordance with the American Plywood Association (APA) Specification for PS-1 or PS-2... 2. All floor sheathing shall be 3/4" nominal (23/32" actual), APA-Rated Stud-Up floor, with long-grain grooved edges, unless otherwise noted... 3. The use of heavily loaded drywall caps or similar conveniences to transport building materials and/or debris can exceed the APA PS-2 concentrated load test standard capacity... 4. All structural wall panel sheathing shall be 7/16" APA-Rated PS-2 sheathing, unless otherwise indicated... 5. All gypsum wall board sheathing shall be 5/8" unless otherwise noted on the Architectural Drawings... 6. Provide 2 blocking with specified edge nailing at unsupported panel edges as follows: A) Roofs and Floors - Not required unless indicated on the plans, notes, or details... B) Walls - Required at all wood panel joints, unless noted otherwise... 7. Unless otherwise noted or shown, install plywood sheathing with the strength axis of the panel across supports and with panel continuous over two or more spans... 8. Wood structural panels used in shear walls shall be 4" x 8" minimum... 9. For shear walls, where a vertical sheathing joint falls on the joint between two adjacent studs (such as the ends of shops or site built panels at a vertical joint in the building floor), the ends of shops together with the vertical sheathing joint shall be reinforced with 2 #3 longitudinal bars... 10. All wall-wood framed roof, ceiling, and wall areas where wood sheathing and/or gypsum wall board sheathing is applied, attach the sheathing to the wood framing members regardless of the closeness of their spacing... 11. Installation of gypsum panel products must follow the requirements of the Gypsum Association... 12. The following interior Angled members shall be described in the schedule and shall be used to avoid racking from potential truss uplift, wood shrinkage, and other causes of framing movement... 13. The requirements shown on the structural drawings for sheathing are the minimum requirements for the structural needs of the structure... 14. All nailing shall be in accordance with the requirements of the International Building Code (IBC)...

DIMENSIONS OF COMMON NAILS

Table: DIMENSIONS OF COMMON NAILS. Columns: PENNYWEIGHT, MIN. LENGTH, IN. NCHES, SHANK DIA., IN. N.

- 1. WALLS CANNOT BE IN PLAN, SECTION, DETAIL, OR SCHEDULE ARE ALWAYS COMMON NAILS. NAIL DIAMETER IS PER ESR-1536, NDS, AND THE TABLE ABOVE EXCEPT THAT NAIL LENGTH WILL ALWAYS BE 3" MINIMUM WHEN NAILING 2 FRAMING MEMBERS TOGETHER AND 3 1/2" WHEN NAILING 1 L.S.
- 2. FOR CONNECTIONS NOT SHOWN, REFER TO BC TABLE 204.9.1 FOR MINIMUM FASTENING REQUIREMENTS.
- 3. FOR FASTENING OF MULTIPLE LVL PILES, FOLLOW THE LVL MANUFACTURER'S REQUIREMENTS.
- 4. FOR FASTENING OF SIMPSON AND OTHER HARDWARE, FOLLOW THE HARDWARE MANUFACTURER'S REQUIREMENTS. FILL ALL FASTENER HOLES WITH THE REQUIRED FASTENERS, U.N.O.

DIAPHRAGM NAILING SCHEDULES

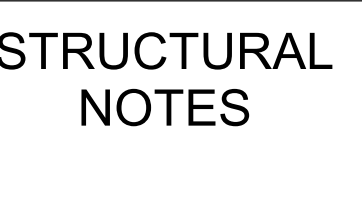
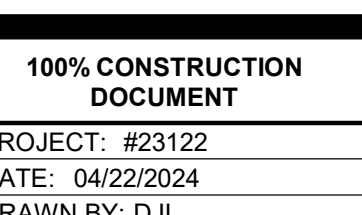
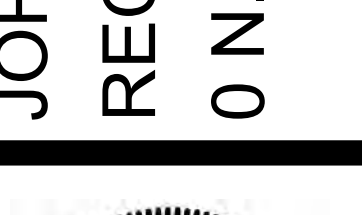
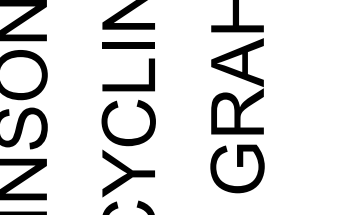
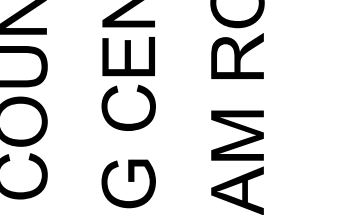
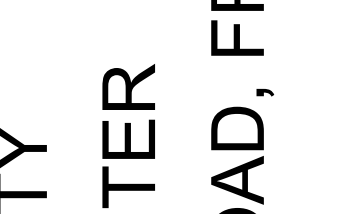
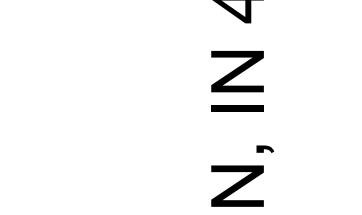
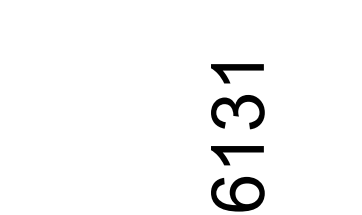
FLOOR DIAPHRAGM

Table: FLOOR DIAPHRAGM. Columns: LOCATION, SIZE, SPACING. Rows: BOUNDARY, PANEL EDGE, FIELD.

- 1. 1:1/2 MINIMUM PENETRATION INTO FRAMING.
- 2. DIAPHRAGMS ARE UNLOCKED U.N.O.
- 3. NAILING SHOWN IS FOR ALL FLOOR LEVELS U.N.O.
- 4. ALL NAIL SCHEDULES COMMON NAILS. REF. SCHEDULE THIS SHEET FOR MIN. LENGTHS AND SHANK DIAMETERS.

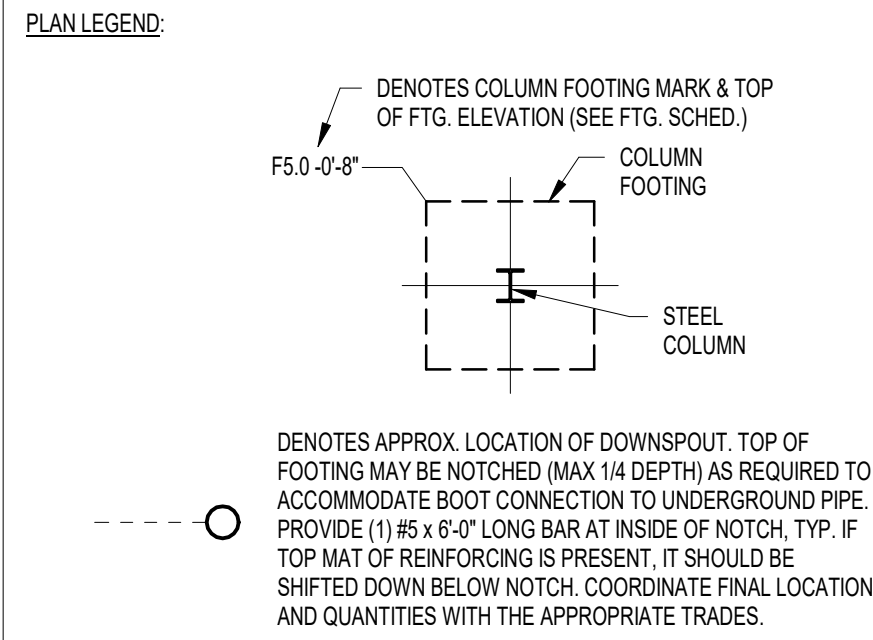
WOOD STAIR FRAMING NOTES

- 1. ALL STAIRS SHOWN ON THE ARCHITECTURAL PLANS & DETAILS WILL HAVE WOOD LANDINGS AND FLIGHT STRINGERS ARE TO BE DESIGNED BY THE STAIR MANUFACTURER FOR 100 psf LIVE LOAD PLUS DEAD LOAD. DO NOT ROUT, RIP, PLANE, OR NOTCH STRINGERS UNLESS DIRECTED TO DO SO BY A LICENSED P.E.
- 2. UNLESS DIRECTED TO DO SO BY A LICENSED P.E., THE STRINGER MAY NOT BE ROUTED, NOTCHED, RIPPED, PLANED, OR OTHERWISE ALTERED IN ANY WAY THAT REDUCES ITS FULL CROSS SECTION.
- 3. SEE ARCHITECTURAL STAIR PLANS, SECTIONS, AND DETAILS FOR ADDITIONAL DIMENSIONS AND ELEVATIONS.



PEMB FOUNDATION PLAN NOTES

- GENERAL NOTES:**
- ALL DIMENSIONS, COLUMN LOCATIONS, COLUMN FOOTING, & TIE ROD SIZES SHOWN ARE PRELIMINARY AND ARE SUBJECT TO CHANGE BASED ON FINAL COORDINATION AND LOADING PROVIDED BY THE PRE-ENGINEERED BUILDING SUPPLIER.
 - ALL DIMENSIONS SHOWN MUST BE COORDINATED WITH THE BUILDING SUPPLIER PRIOR TO SHOP DRAWING SUBMITTALS.
 - COLUMN FOOTINGS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE BASED ON FINAL REACTIONS PROVIDED BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER.
 - COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON SOILS WITH AN ALLOWABLE BEARING PRESSURE PER THE GEOTECHNICAL REPORT. DESIGNS SHOWN WERE BASED ON AN ASSUMED ALLOWABLE BEARING PRESSURE OF 2000 PSF. THIS WILL BE UPDATED ONCE A GEOTECH REPORT IS MADE AVAILABLE.
 - ALL PEMB BASES ARE TO BE SET 8" BELOW FINISHED FLOOR.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXTERIOR FINISHES, ELEVATIONS, ETC.
 - TAPERED COLUMNS ARE ACCEPTABLE AT EXTERIOR WALLS FOR RIGID FRAMES. WIDE-FLANGE, BUILT-UP, OR SQUARE TUBE COLUMNS ARE ACCEPTABLE FOR POST-AND-BEAM FRAMES AND WIND COLUMNS.
 - FRAMING FOR THE INTERIOR MEZZANINE IS NOT PART OF THE P.E.M.B. SCOPE, AND NO LOADS FROM THE MEZZANINE WILL BE IMPARTED ONTO ANY P.E.M.B. MEMBERS.



PEMB KEYED NOTES

- POST-AND-BEAM ENDWALL FRAME AT THIS LOCATION.
- CLEAR-SPAN RIGID FRAME w/ REMOVABLE WIND COLUMNS AT THIS LOCATION.
- A FULL-HEIGHT PORTAL FRAME IS ACCEPTABLE IN THIS BAY FOR LONGITUDINAL BRACING.
- ROD BRACING IS ACCEPTABLE IN THIS BAY FOR LONGITUDINAL BRACING.
- PROVIDE TIE-BACK ROOF BRACING FOR LATERAL BRACING OF POST-AND-BEAM ENDWALL FRAME AS REQUIRED.
- PROVIDE (2) #6 CONTINUOUS TIE RODS ENCASED IN 18" W. x 8" H. CONCRETE TRENCH. TOP OF TRENCH = 0'-8". RODS SHALL BE SPLICED WITH MECHANICAL COUPLERS CAPABLE OF ACHIEVING FULL TENSION, STAGGERED AT LEAST 10 FEET APART.
- TRENCH DRAIN - COORD. FINAL LOCATION w/ ARCH. DRAWINGS. REF. S-400 FOR TYP. DETAIL.
- WALL FOUNDATION TO REMAIN IF THE BUILDING IS EXPANDED. WALL REINFORCING TO BE CONTINUOUS BETWEEN FRAME FOOTINGS AND PASS THROUGH REMOVABLE WIND COLUMN FOOTINGS.

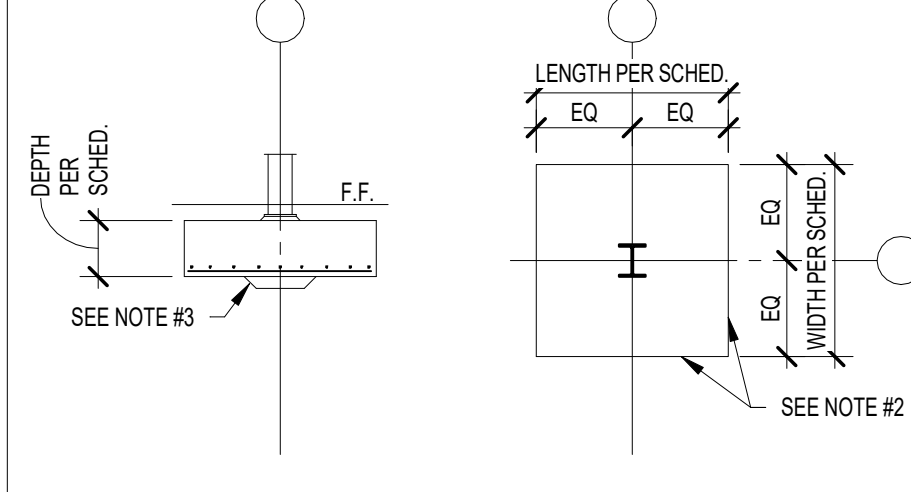
FOUNDATION PLAN NOTES

- REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
- ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
- COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
- ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION 0'-0" REF. CIVL DWGS FOR USGS.
- REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- REF. S400 & S401 FOR TYPICAL FOUNDATION DETAILS.
- PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED TO PASS BELOW UTILITY LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE MEP DRAWINGS. PERIMETER FOUNDATION WALLS SHOULD BE SLEEVED.
- ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.
- GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
- COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQUIRED TO SUITABLE BEARING MATERIAL, AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAIL ON S400.
- PROVIDE CONTROL CONTRACTION JOINTS IN SLABS ON GRADE (REF. THE TYPICAL DETAILS ON SHEET S401). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL COMPOSITION TILE (VCT) OR VINYL SHEET GOODS. EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
- PLAN LEGEND:

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE			REINFORCING (EACH WAY)
	WIDTH	LENGTH	DEPTH	
F5.0T	5'-0"	5'-0"	2'-4"	(5) #5 x 4'-0" TOP & BOTTOM
F6.0T	6'-0"	6'-0"	2'-4"	(8) #5 x 6'-0" TOP & BOTTOM
F7.0T	7'-0"	7'-0"	2'-4"	(7) #5 x 6'-0" TOP & BOTTOM

- NOTES:**
- CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
 - ALL FOOTINGS MUST BE BOARD-FORMED, UNLESS APPROVED.
 - INCREASE FOOTING DEPTH WHERE REQUIRED TO ENCASE COLUMN ANCHOR RODS.
- NOTE: WF STEEL COLUMN SHOWN. TUBES, PIPES, C.I.P. CONCRETE, PRECAST & MASONRY COLUMNS SIM.



TRENCH FOOTING SCHEDULE

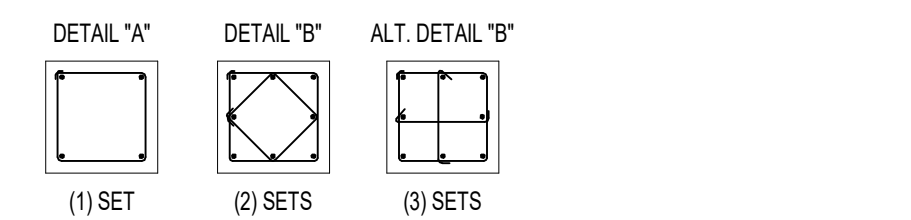
FTG. MARK	FOOTING SIZE		FOOTING REINFORCING	
	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE
TF30	2'-8"	2'-4"	(4) #5 x CONTINUOUS	#5 x 2'-0" @ 32" O.C.
TF42	3'-8"	2'-4"	(5) #7 x CONTINUOUS	#7 x 3'-8" @ 10" O.C.

- CENTER FOOTINGS BENEATH WALLS, U.N.O.
- TRENCH FOOTINGS MAY BE CAST DIRECTLY AGAINST SOIL WITHOUT FORMING WHERE EXISTING SOIL CONDITIONS PERMIT. FORM TOP OF TRENCH FOOTINGS WHERE SOIL HAS SLOUGHED SIGNIFICANTLY, WHERE GRADE IS LOWER THAN THE INDICATED TOP OF FOOTING ELEVATION, OR WHEREVER TRENCH FOOTING WOULD INTERFERE WITH THE INSTALLATION OF DOWNSPOUTS, CONDUIT, BOLLARDS, ETC. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING & SITE/CIVIL DRAWINGS.
- INTERIOR OF TRENCH FOOTING SHALL BE FORMED WITH RIGID INSULATION. TAKE CARE IN TRIMMING INTERIOR FACE OF EXCAVATION TO MINIMIZE GAPS BETWEEN THE INSULATION. FILL WITH #33 STONE, TAMPING AND COMPACTING WHERE SPACE PERMITS.
- FOOTING MARKS THAT END WITH "T" SHALL HAVE THE REINFORCING IN BOTH TOP AND BOTTOM OF THE FOOTING.

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE	PIER REINFORCING			CRITICAL HEIGHT
		VERTICALS	TIE-SIZE & SPA ³	DETAIL	
P28A	2'-4" x 2'-4"	(8) #7	#4 @ 4" O.C.	B	≤ 3'-0"

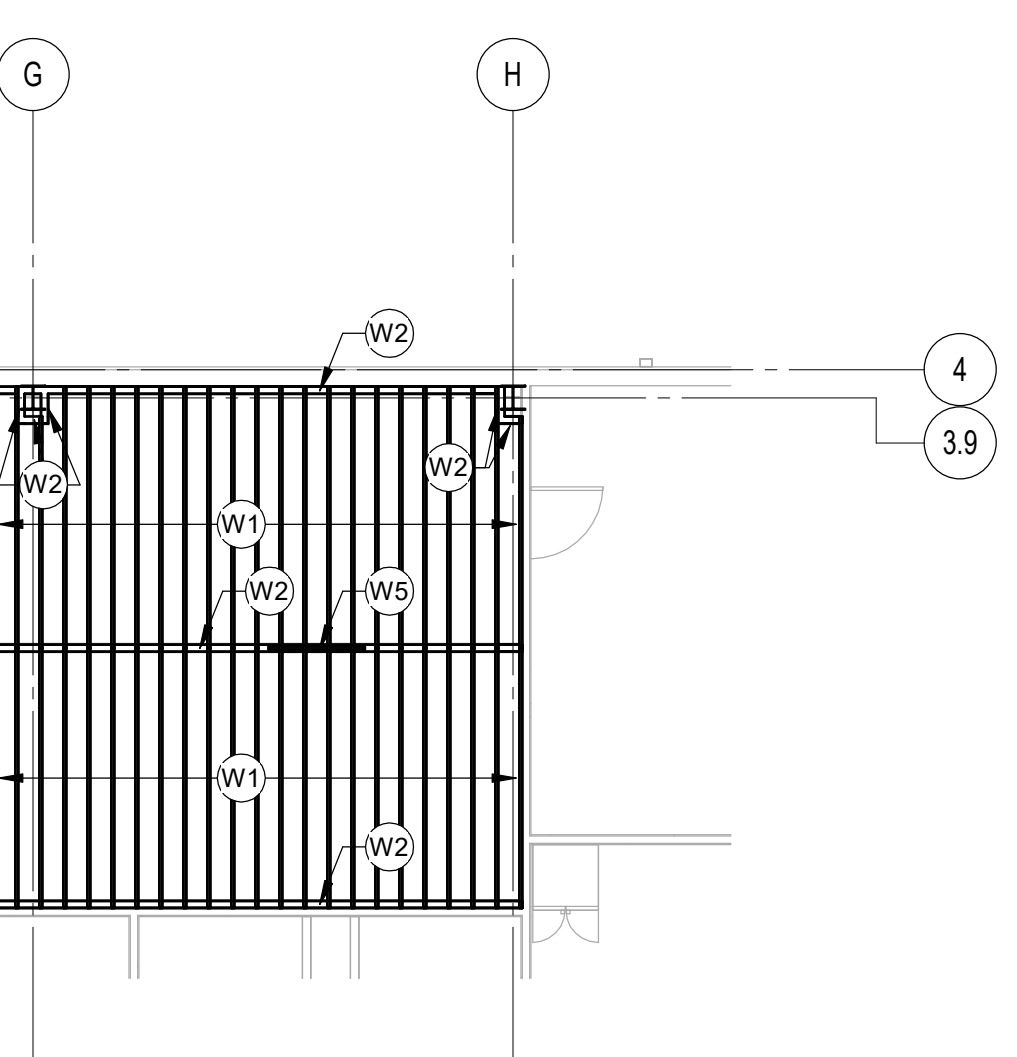
- PROVIDE MIN. 1" CLEAR TO PIER TIES.
- CRITICAL HEIGHT DENOTES THE HEIGHT ABOVE WHICH LARGER DIAMETER VERTICALS WITH FEWER TIES MAY BE USED. REF. FOUNDATION PLANS FOR TOP OF PIER & FOOTING ELEV.
- REF. TYPICAL CONCRETE PIER REINFORCING ON FOUNDATION DETAIL SHEET FOR FURTHER INFORMATION ON THE SPACING.
- VERTICAL DOWELS ARE TO FUNCTION AS PIER VERTICALS FOR PIERS LESS THAN OR EQUAL TO 5'-0" HIGH. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" HIGH, UNLESS APPROVED.
- CONTACT THE STRUCTURAL ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FULL WITH PIER TIES OR VERTICALS.
- MIN. HEIGHT OF PIERS: #6 VERTICALS = 2'-0"; #7 VERTICALS = 2'-8".



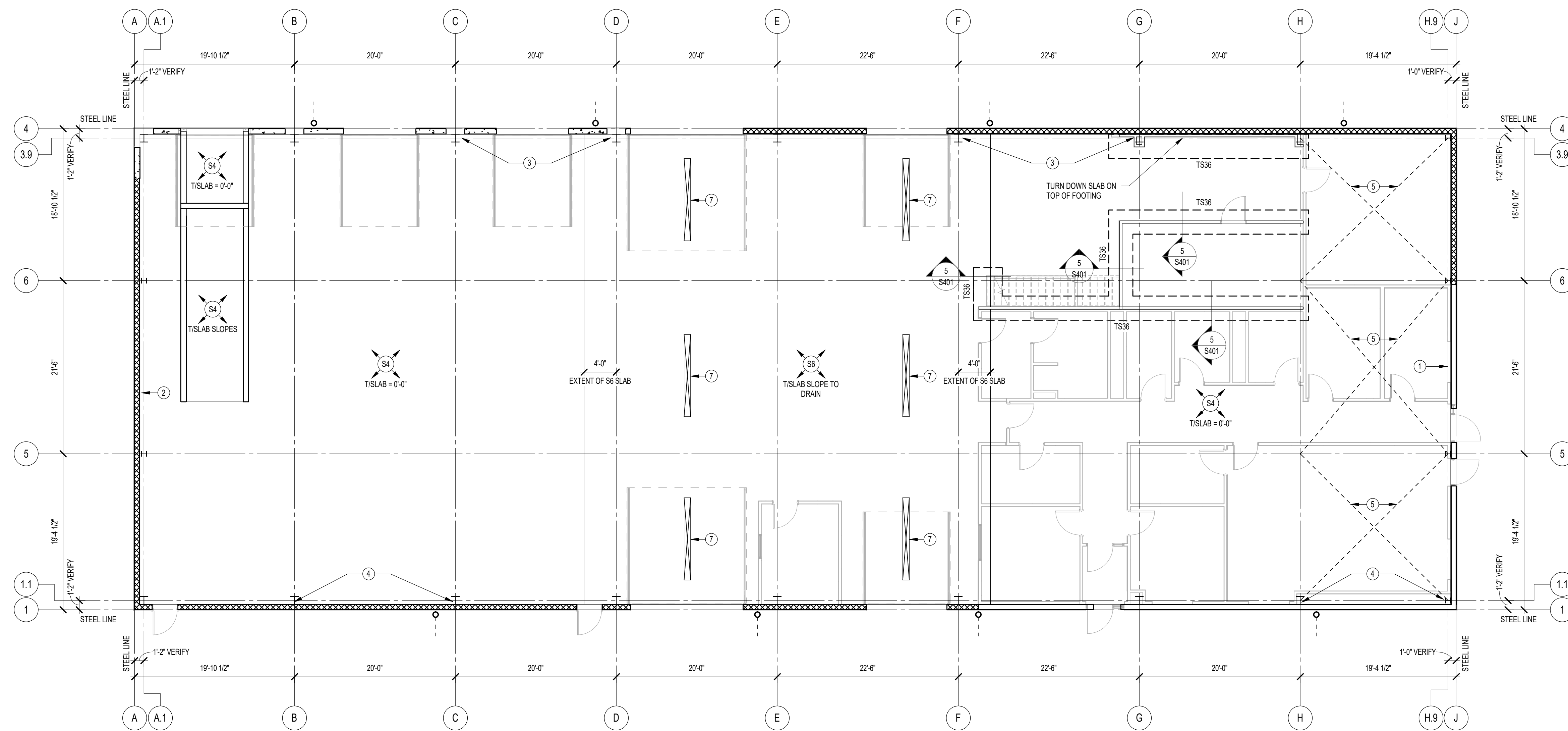
WOOD FRAMING PLAN KEYED NOTES

- 2x12 WOOD SOUTHERN PINE JOISTS @ 12" O.C. MAX. TYPICAL, W/ 3/4" APA-RATED SUBFLOOR WITH TONGUE & GROOVE EDGES. GLUE & NAIL TO FLOOR MEMBERS.
- 2x4 SOUTHERN PINE WOOD BEARING WALLS @ 12" o.c.
- PROVIDE (2) 2x12 AT EDGE OF MEZZANINE
- PROVIDE WOOD STAIR PER WOOD STAIR NOTES ON S001
- PROVIDE 2x8 HEADER OVER DOOR

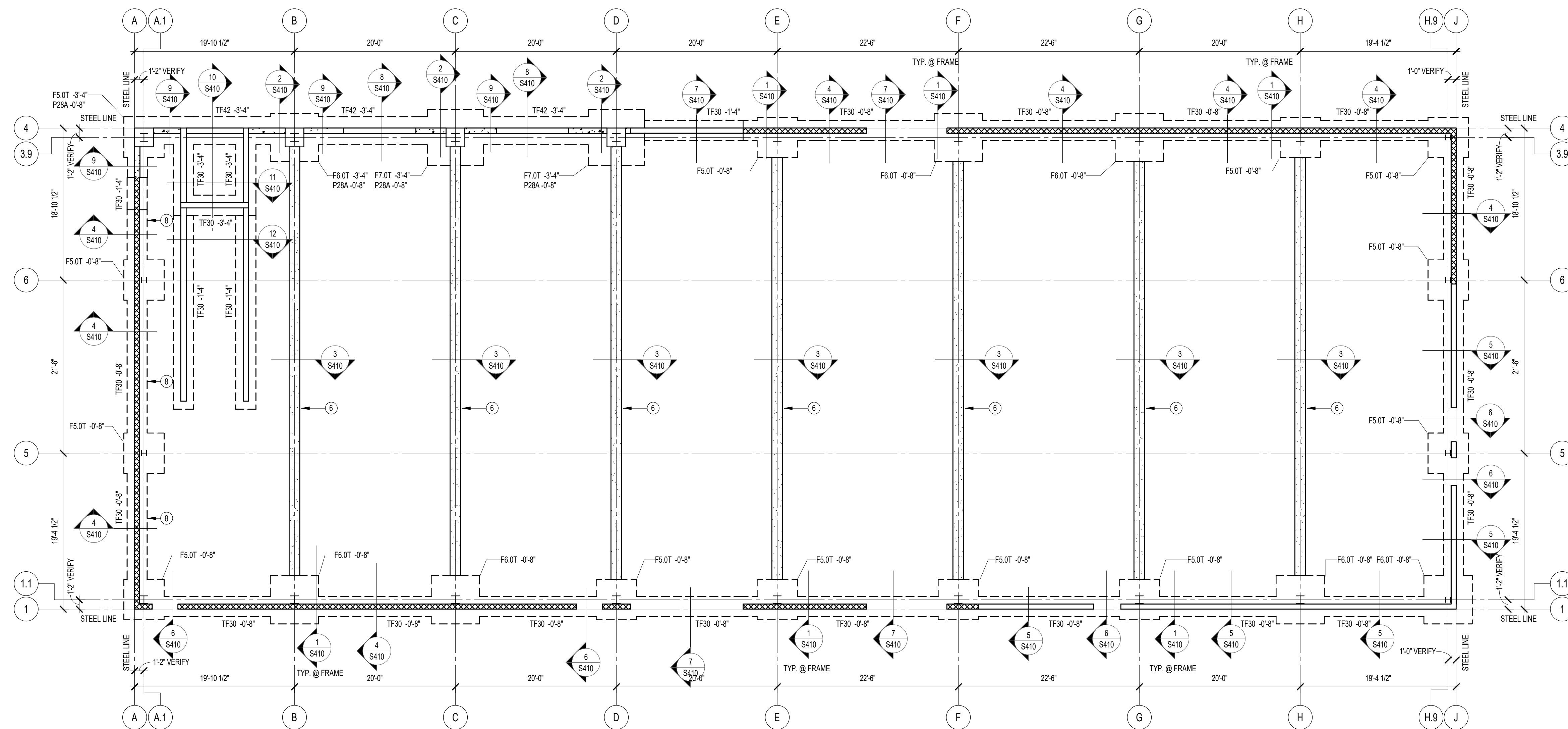
- F.F. DENOTES FINISH FLOOR
- T7X DENOTES TOP OF FTG., GRADE BEAM, SLAB, PIER, ETC.
- TF30 2'-8" DENOTES FOOTING MARK & TOP OF FOOTING ELEVATION (SEE WALL FOOTING SCHEDULE)
- 4" CONCRETE SLAB-ON-GRADE w/ FIBERFORCE 300[®] FIBERS @ 1.5 L.B.C.Y. (OR EQUAL) & "ES INTERNAL CURE" ADMIXTURE AT 4 OZ/CWT & "ES CATALYST" SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL CLASS A VAPOR BARRIER OVER 2" RIGID INSULATION (MIN. COMPRESSIVE STRENGTH OF 10 PSI) OVER 6" COMPACTED GRANULAR FILL (INDOT No. 53 CRUSHED STONE).
- 6" CONCRETE SLAB-ON-GRADE w/ FIBERFORCE 300[®] FIBERS @ 1.5 L.B.C.Y. (OR EQUAL) & "ES INTERNAL CURE" ADMIXTURE AT 4 OZ/CWT & "ES CATALYST" SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL CLASS A VAPOR BARRIER OVER 2" RIGID INSULATION (MIN. COMPRESSIVE STRENGTH OF 25 PSI) OVER 6" COMPACTED GRANULAR FILL (INDOT No. 53 CRUSHED STONE).



3 MEZZANINE FRAMING PLAN
SCALE: 1/8" = 1'-0"



2 SLAB ON GRADE AND KEYED NOTE PLAN
SCALE: 1/8" = 1'-0"



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

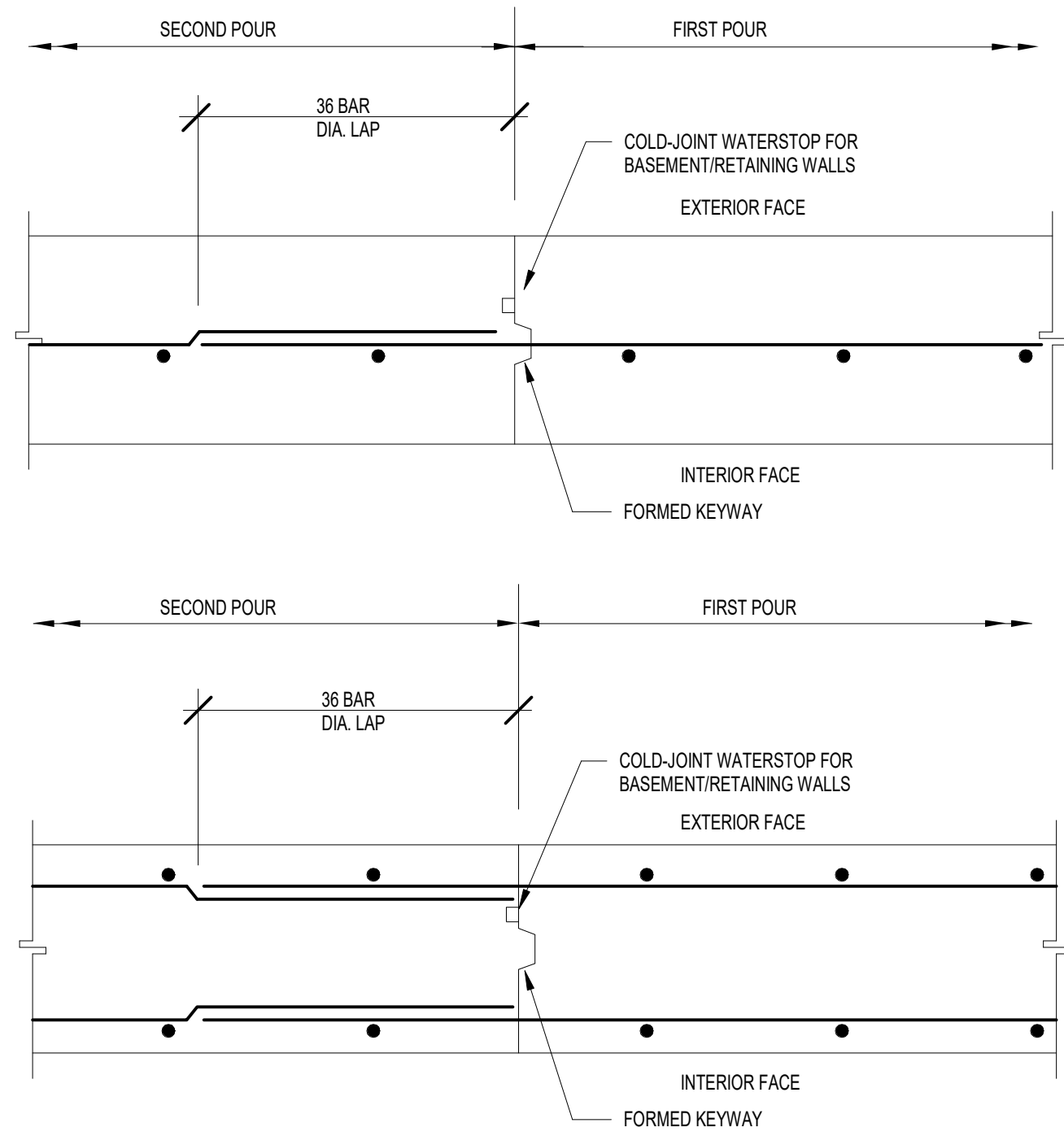


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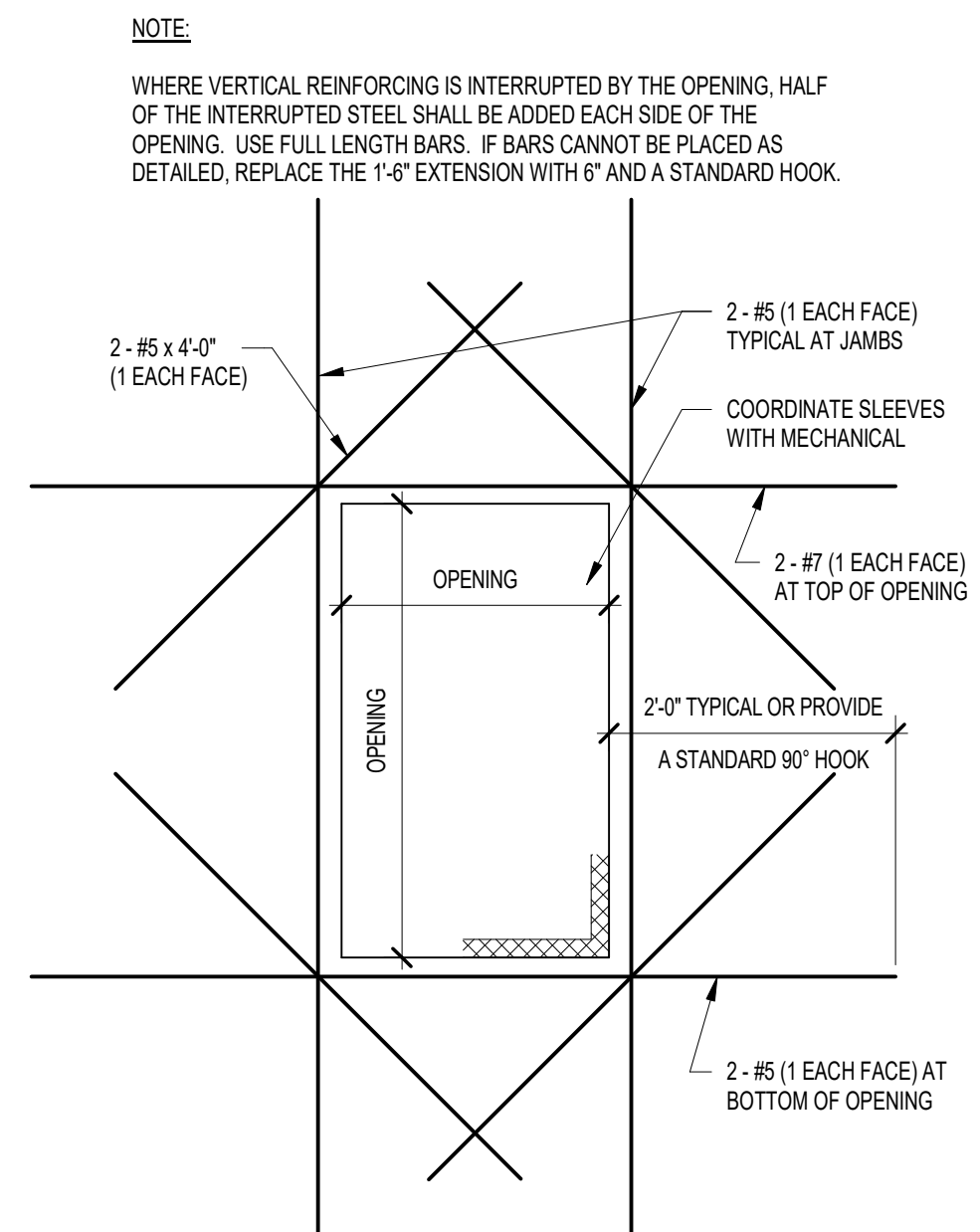
#	Date	Desc.

100% CONSTRUCTION DOCUMENT

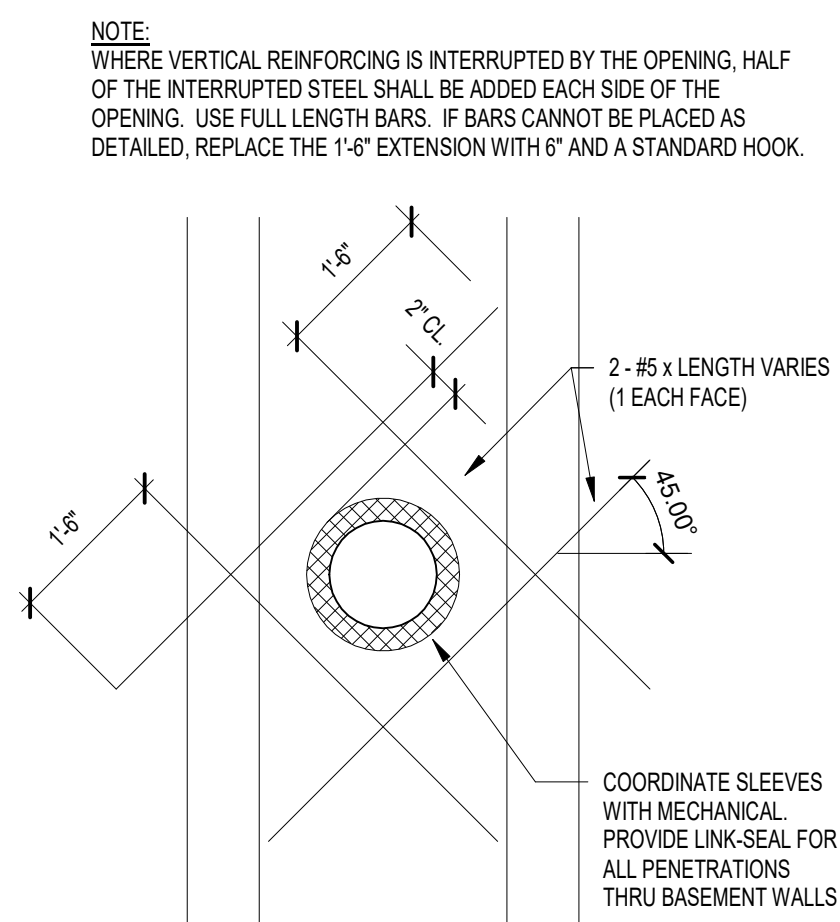
PROJECT: #23122
DATE: 04/22/2024
DRAWN BY: DJL



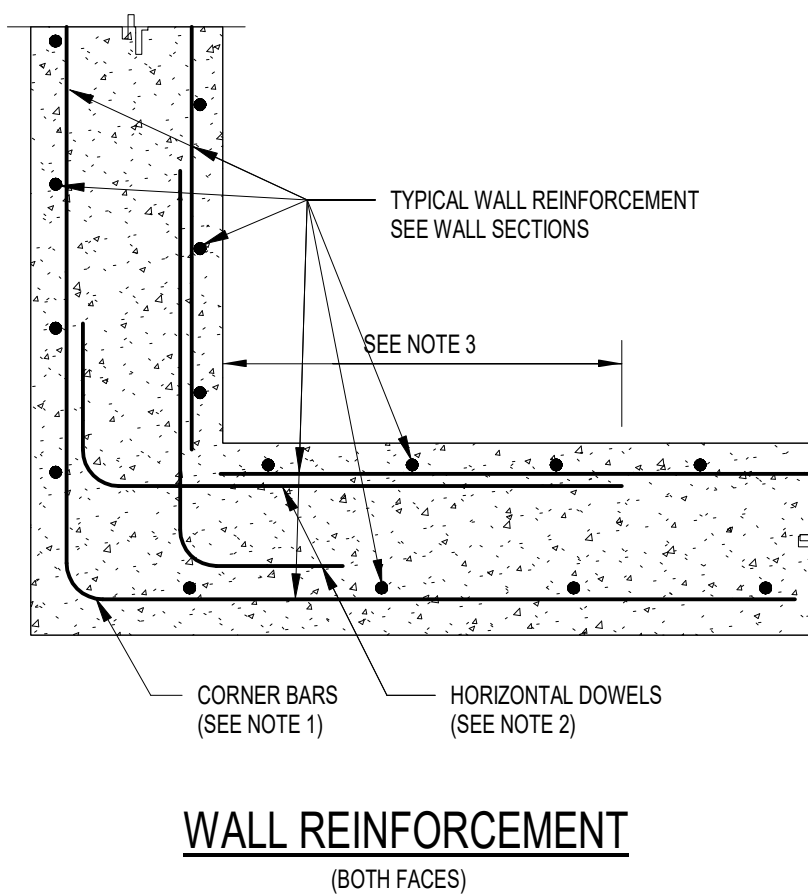
13 C.I.P. WALL CONSTRUCTION JOINTS
S400 SCALE: 1" = 1'-0"



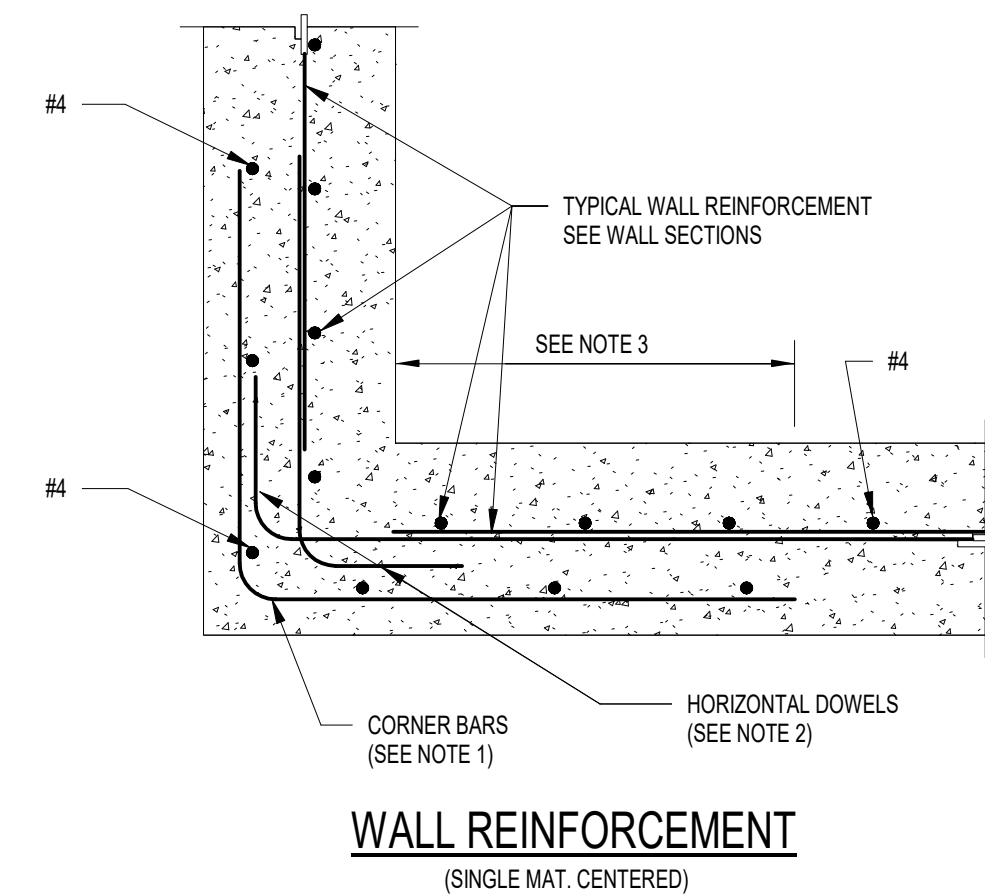
12 C.I.P. WALL RECTANGULAR OPENING
S400 SCALE: 3/4" = 1'-0"



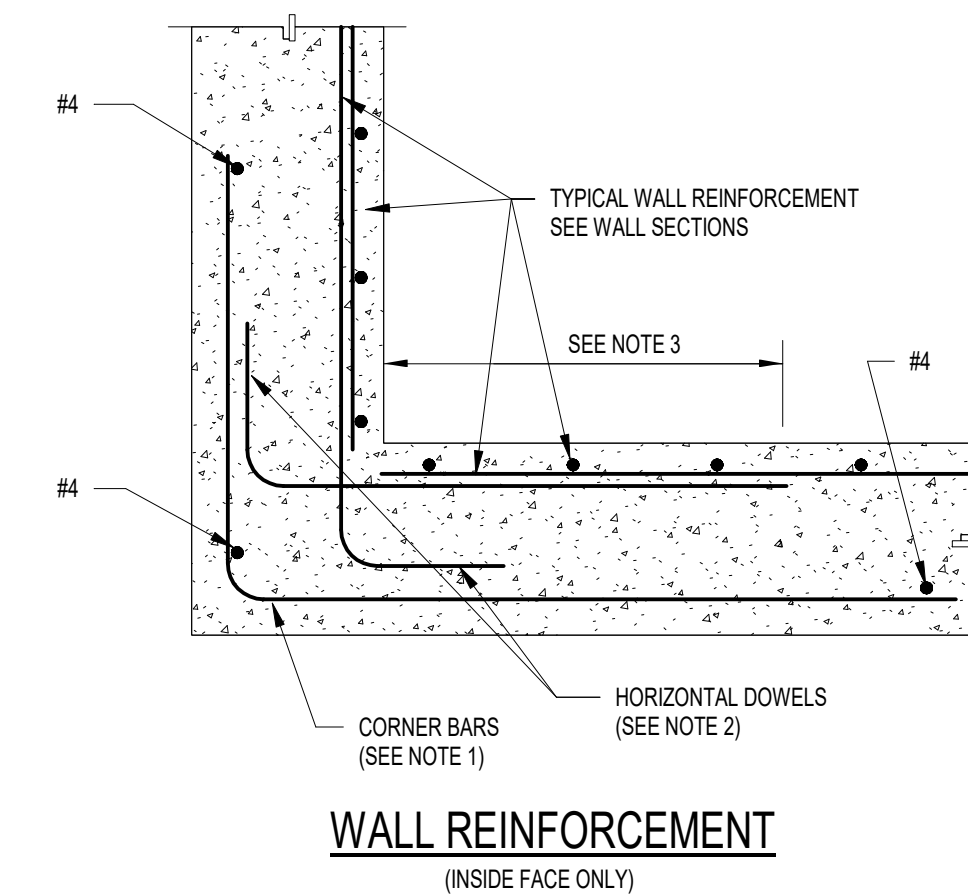
11 C.I.P. WALL ROUND OPENING
S400 SCALE: 3/4" = 1'-0"



WALL REINFORCEMENT (BOTH FACES)



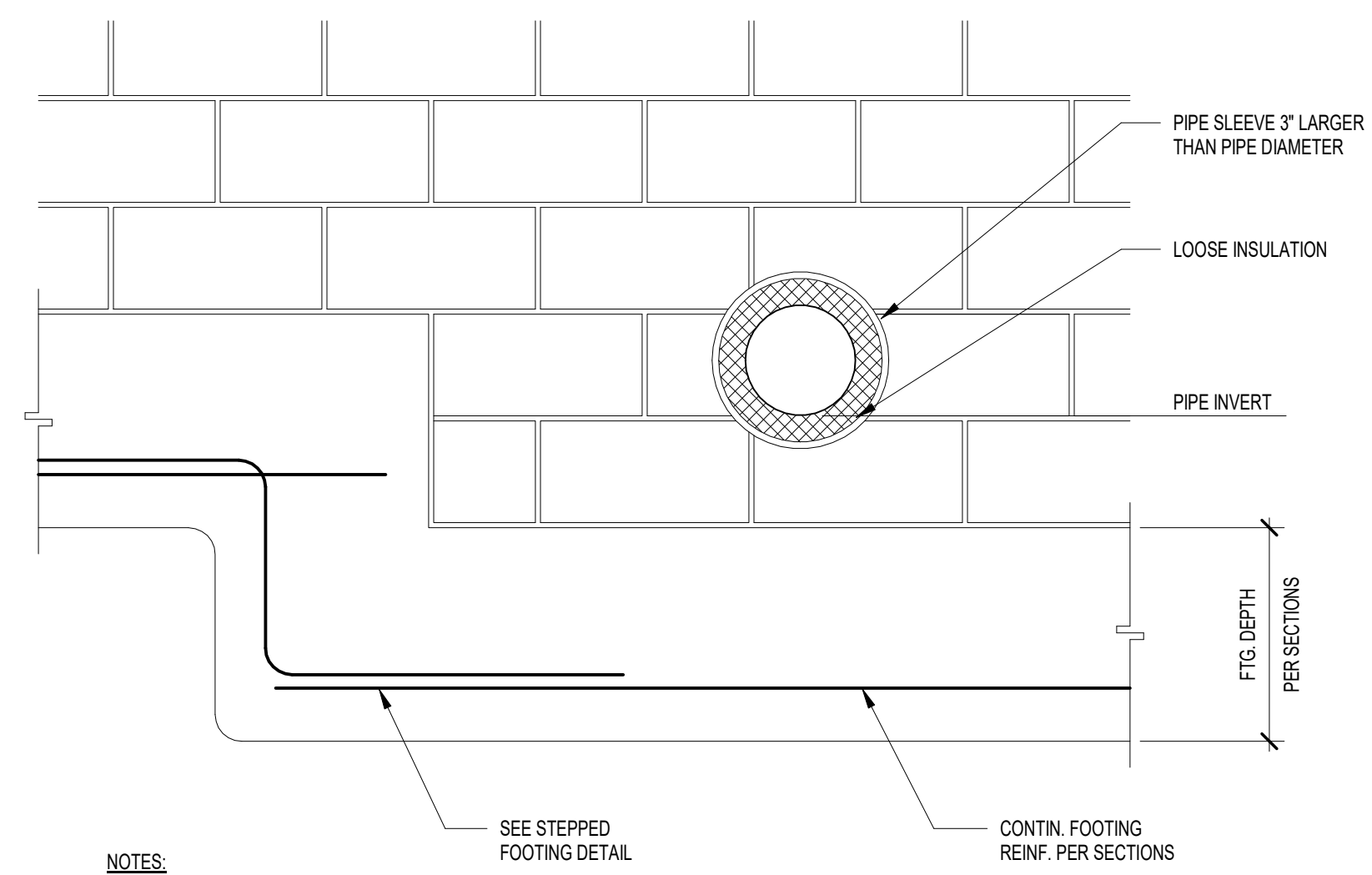
WALL REINFORCEMENT (SINGLE MAT. CENTERED)



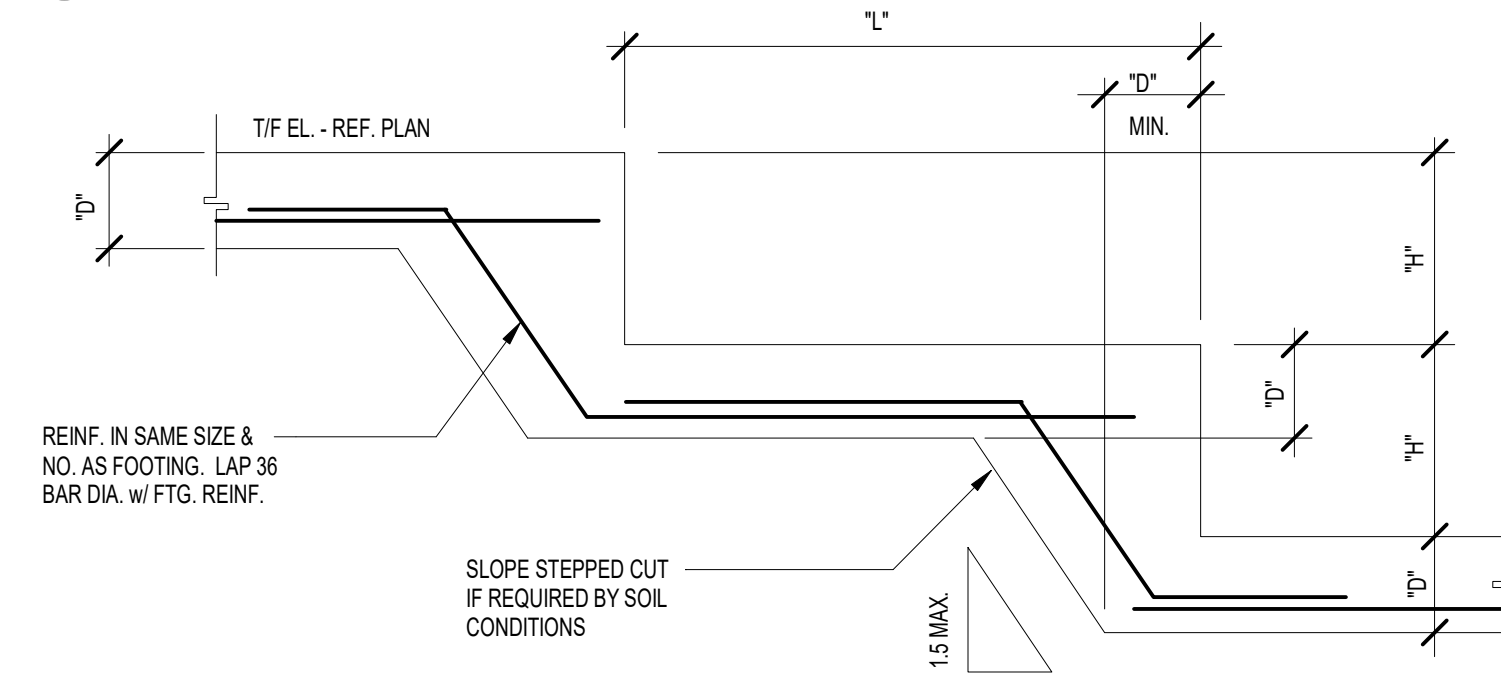
WALL REINFORCEMENT (INSIDE FACE ONLY)

- NOTES:
1. PROVIDE CORNER BARS AS SHOWN. MATCH HORIZONTAL WALL REINFORCEMENT SIZE AND SPACING.
 2. PROVIDE HORIZONTAL DOWELS AS SHOWN, OR STANDARD 90 DEGREE END HOOK ON HORIZONTAL BARS.
 3. PROVIDE TYPE II LAP SPLICE (SEE CONCRETE REINFORCING TENSION LAP SPLICE TABLE).
 4. SEE APPLICABLE SECTIONS FOR REINFORCING STEEL CLEARANCES.
 5. TERMINATE HORIZONTAL WALL REINFORCEMENT 2" CLEAR FROM END OF WALL.
 6. GRADE BEAMS: PROVIDE CORNER BARS FOR LONGITUDINAL REINFORCEMENT AT GRADE BEAM CORNERS WITHOUT A SUPPORTING CONCRETE PIER, AS SHOWN IN "WALL REINFORCEMENT - BOTH FACES".

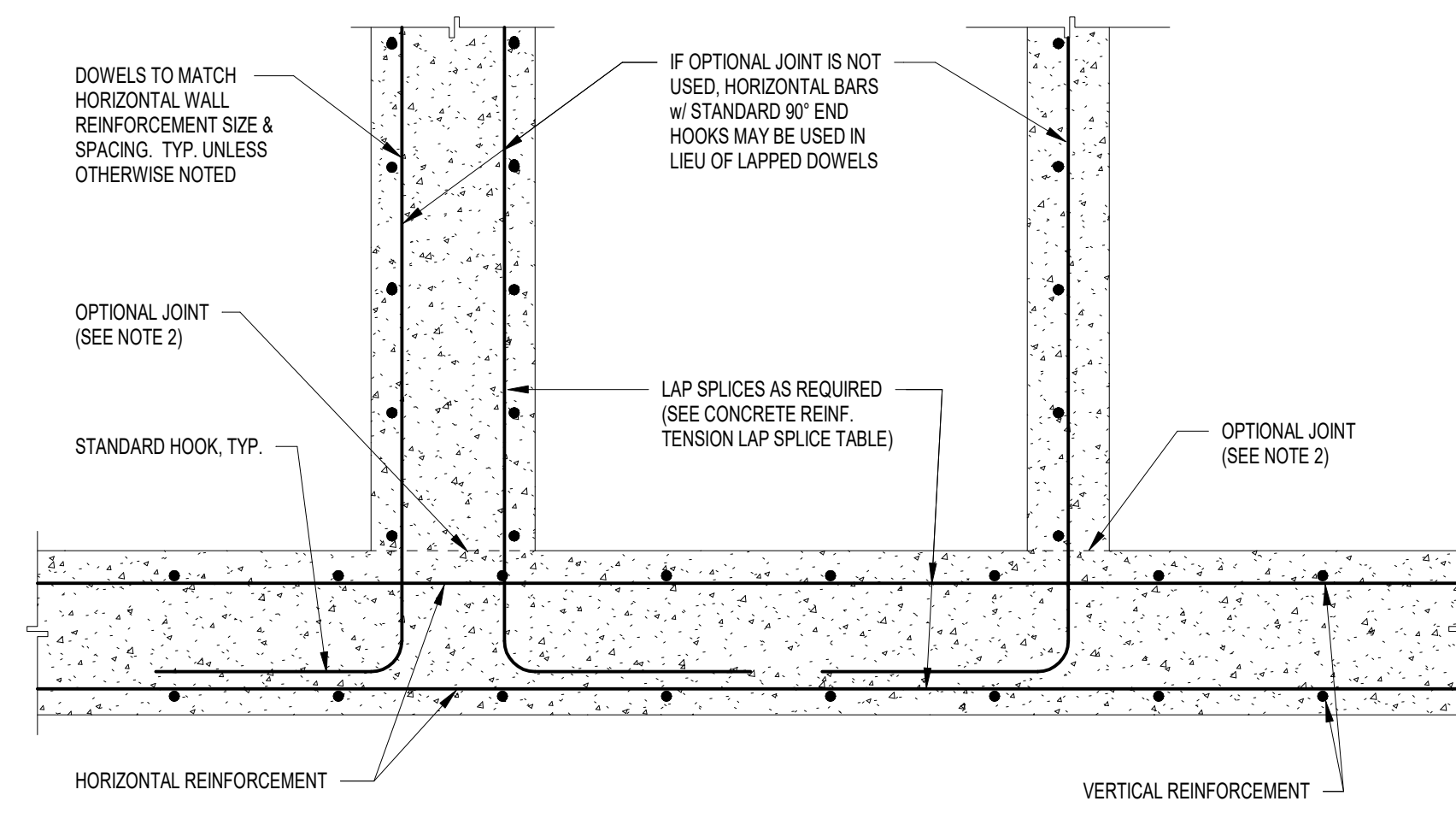
10 TYPICAL CONCRETE WALL CORNERS
S400 SCALE: 3/4" = 1'-0"



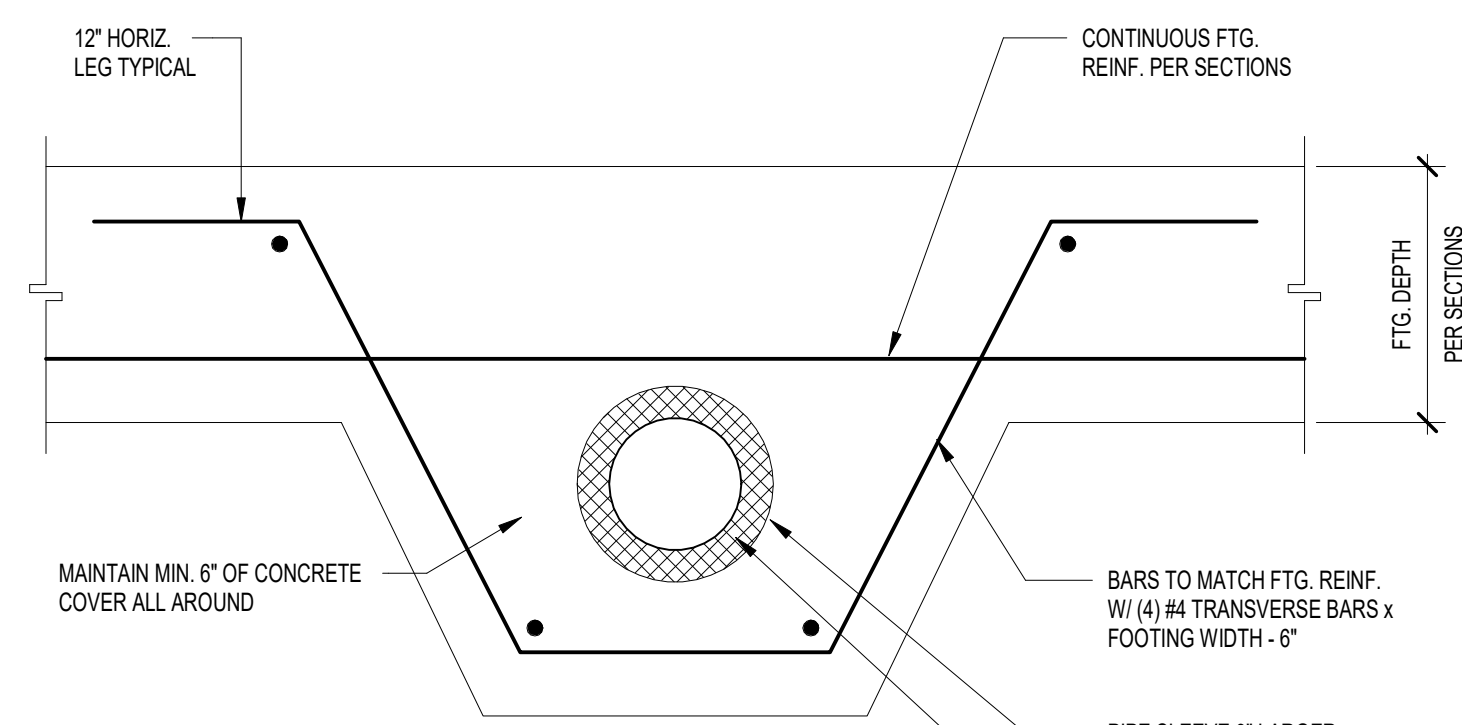
9 CMU FOUNDATION WALL SLEEVE
S400 SCALE: 1" = 1'-0"



8 STEPPED FOOTING DETAIL
S400 SCALE: 3/4" = 1'-0"

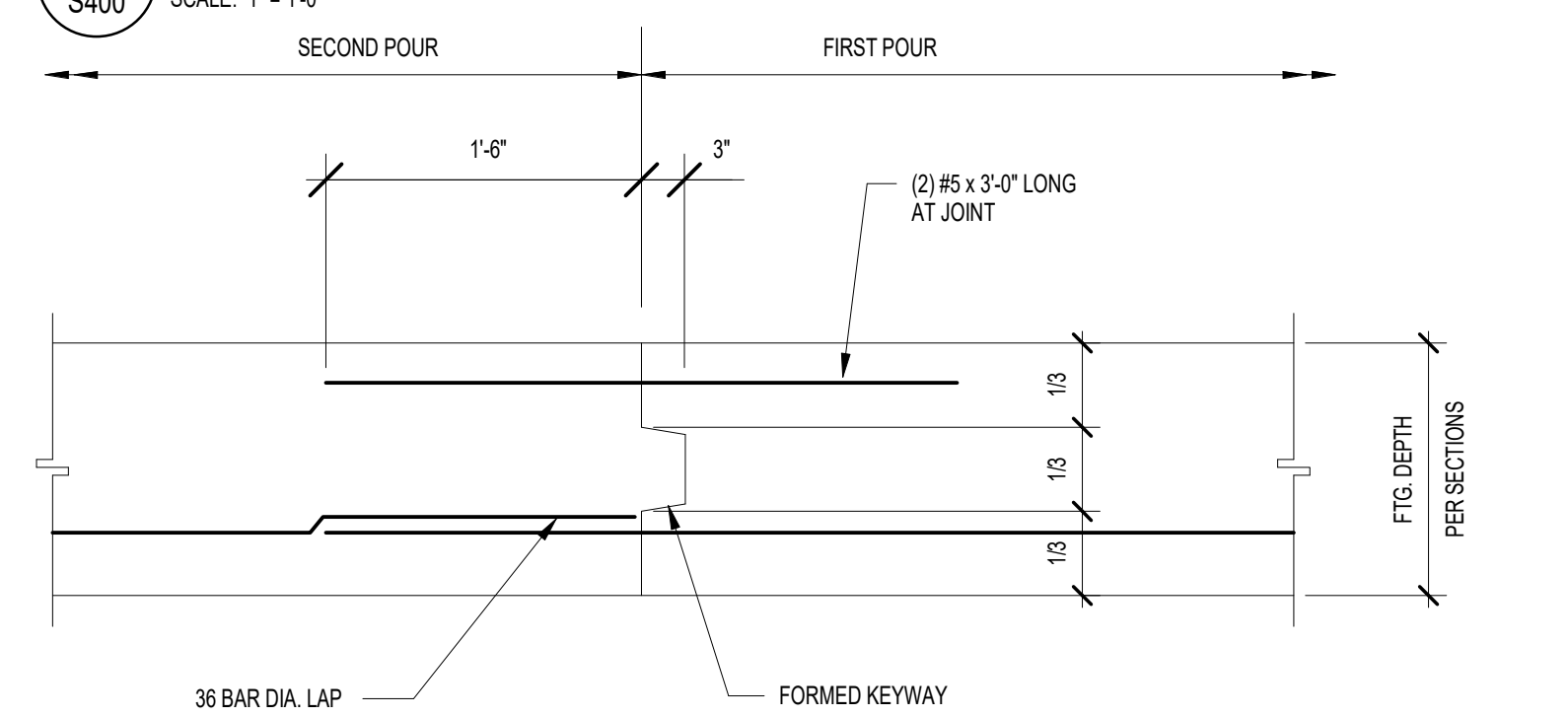


7 TYPICAL CONCRETE WALL INTERSECTIONS
S400 SCALE: 3/4" = 1'-0"

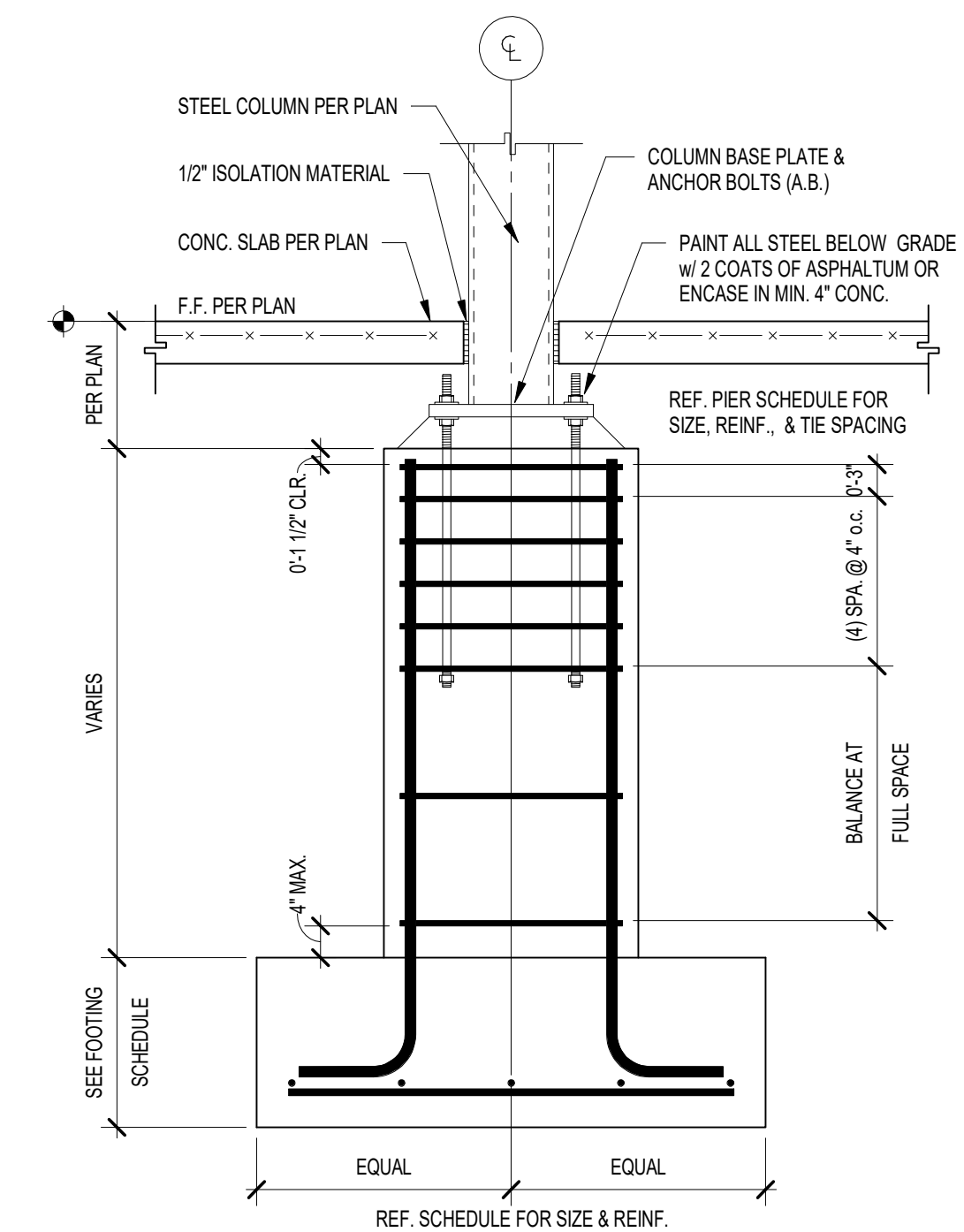


- NOTES:
1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.
 2. PROVIDE THIS DETAIL WHERE A PENETRATION THROUGH A WALL FOOTING IS UNAVOIDABLE AND APPROVED BY THE EOR.
 3. NO SLEEVES IN COLUMN FOOTINGS ARE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

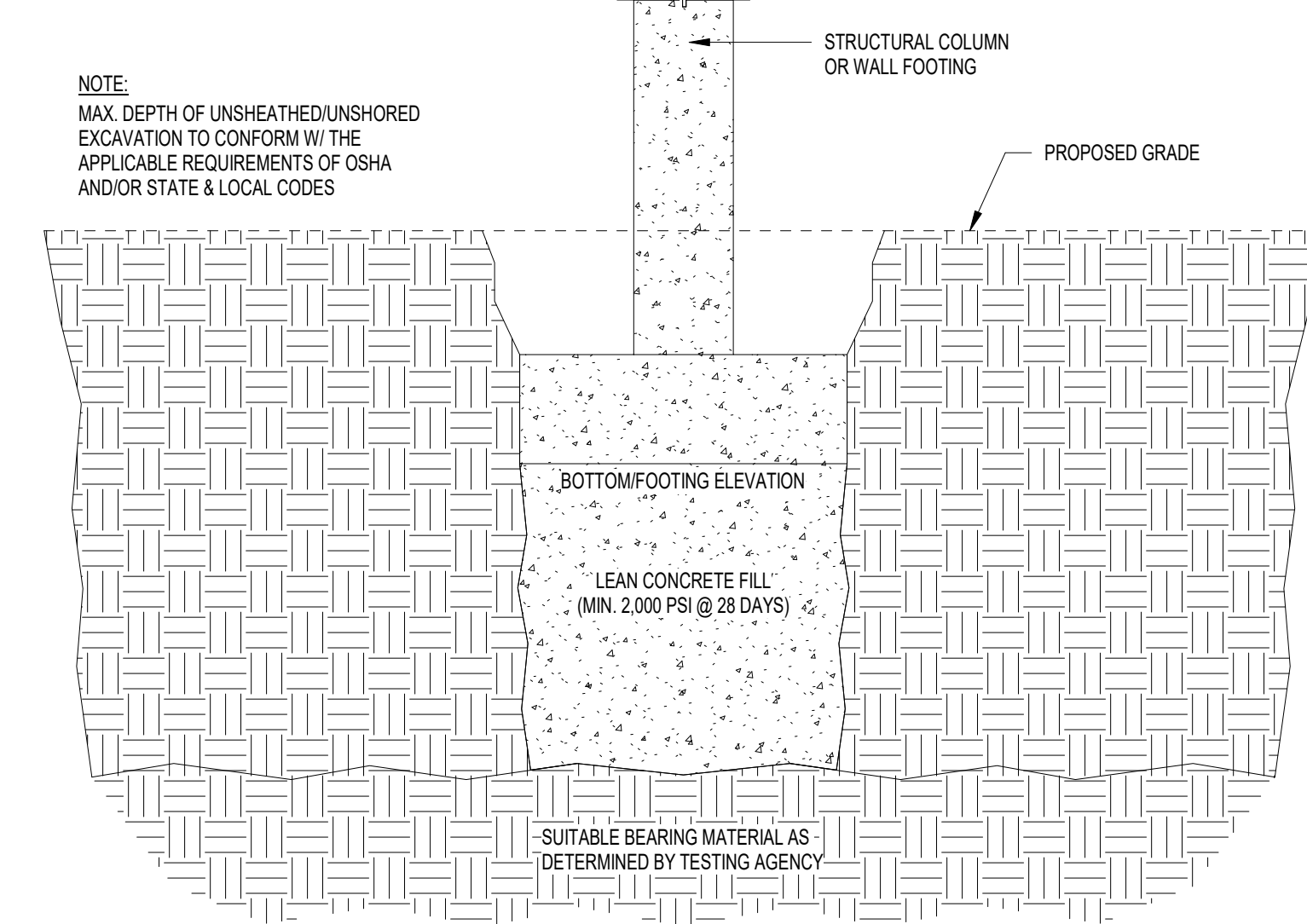
6 WALL FOOTING SLEEVE DETAIL
S400 SCALE: 1" = 1'-0"



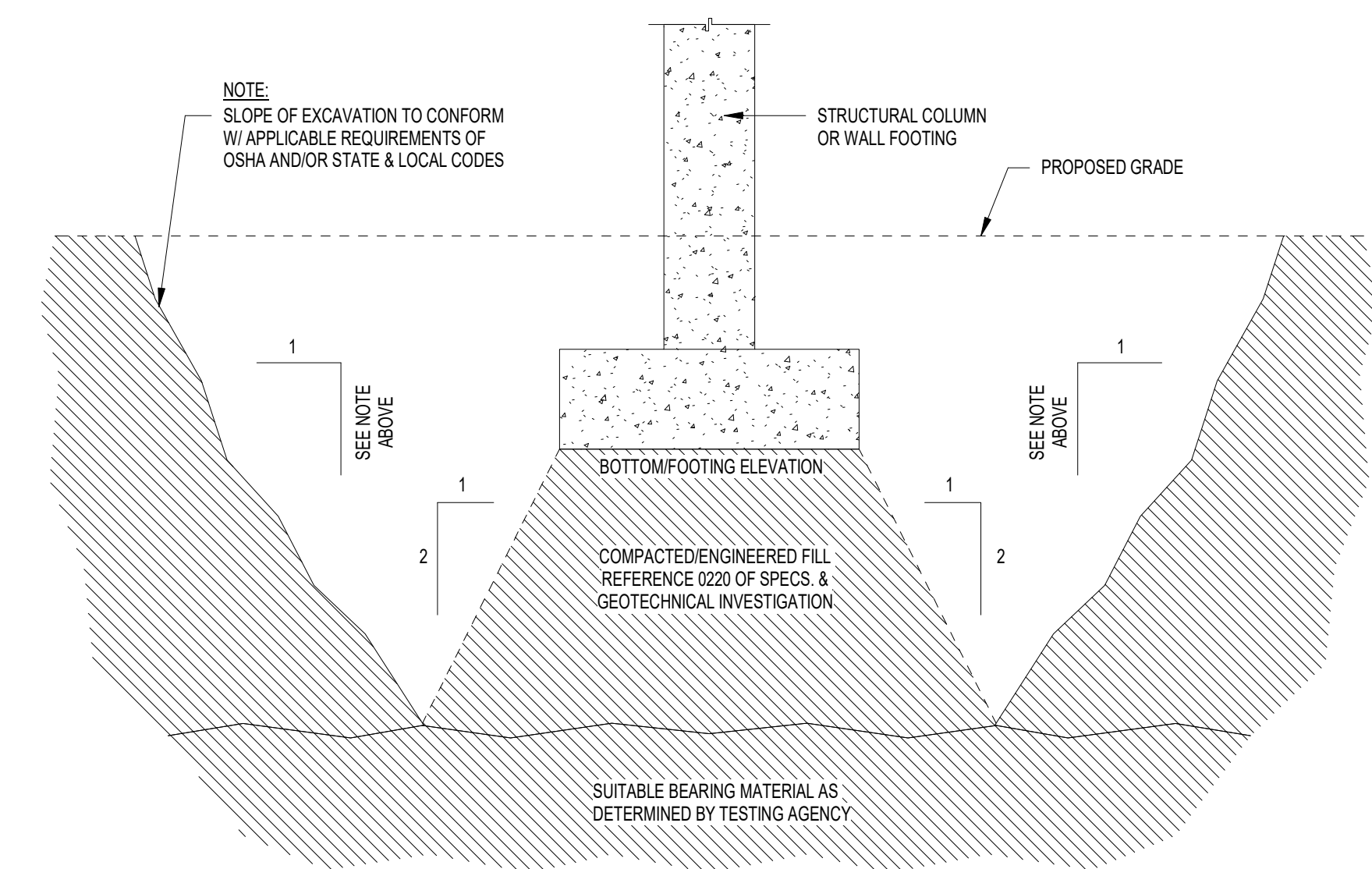
5 WALL FOOTING CONSTRUCTION JOINT
S400 SCALE: 1" = 1'-0"



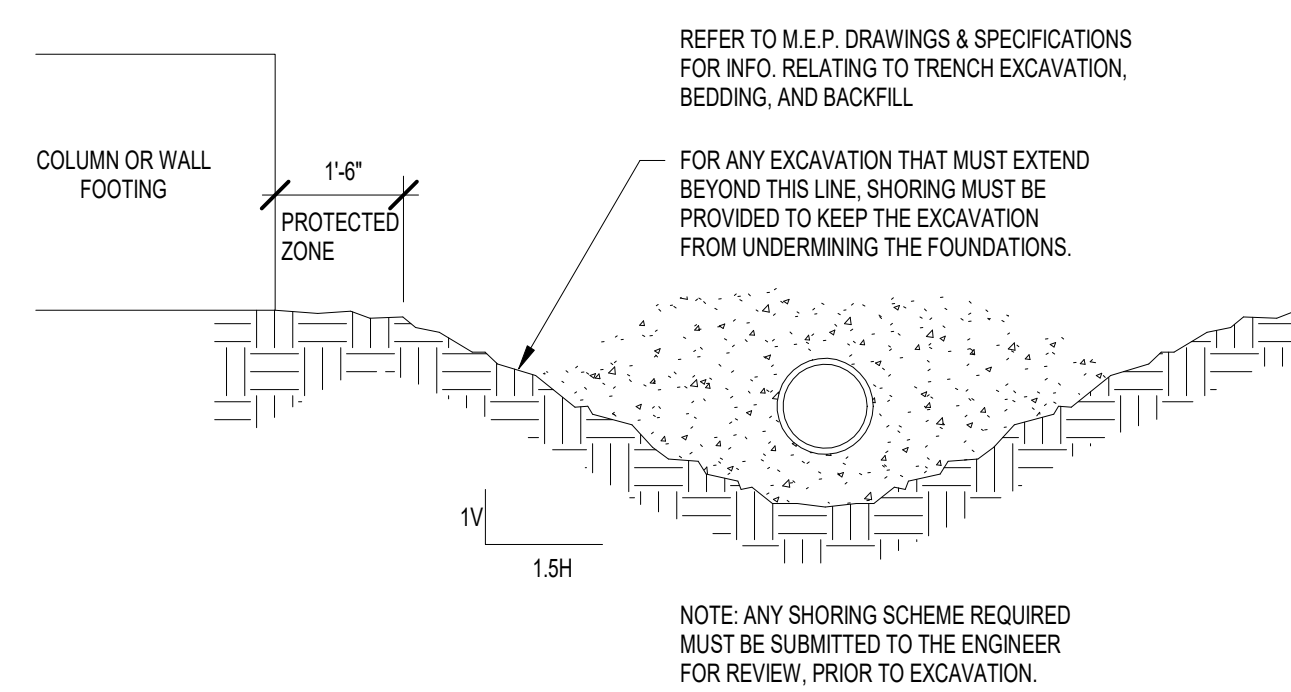
4 TYPICAL CONCRETE PIER REINFORCING
S400 SCALE: 3/4" = 1'-0"



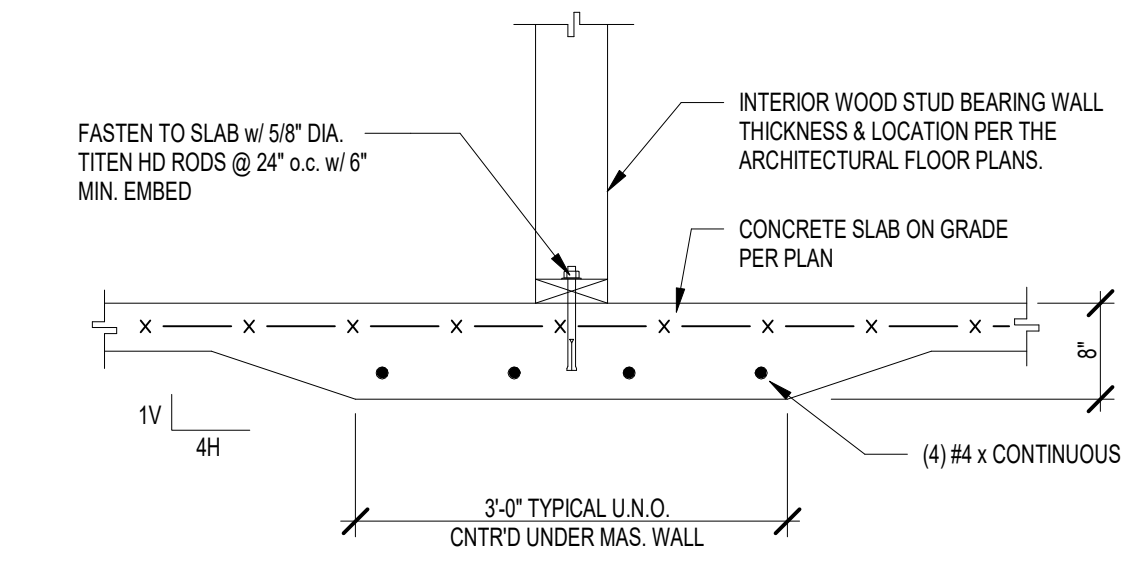
3 OVEREXCAVATION DETAIL - LEAN CONCRETE FILL
S400 SCALE: 3/4" = 1'-0"



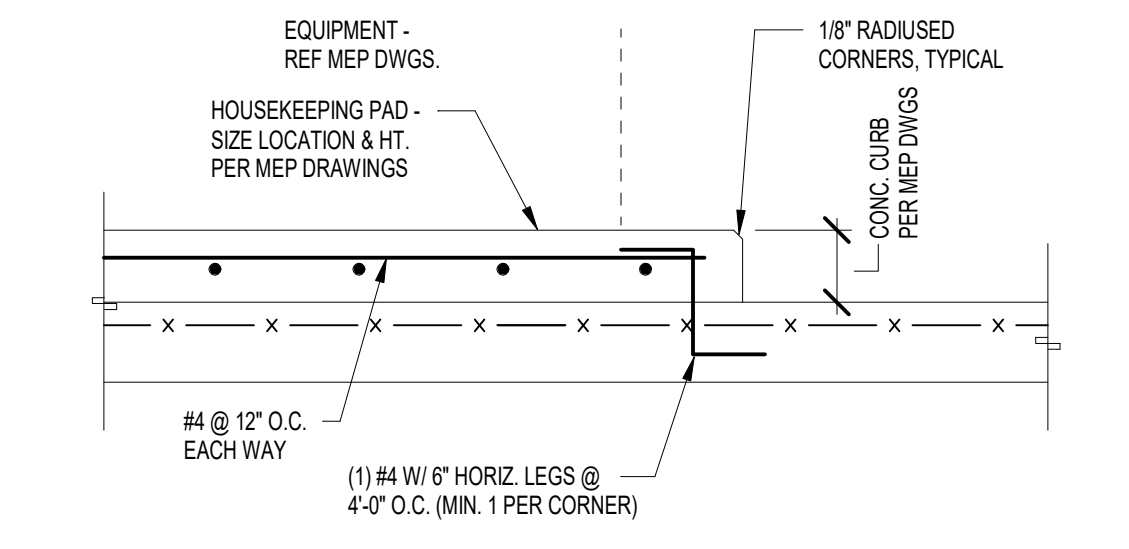
2 OVEREXCAVATION DETAIL - COMPACTED FILL
S400 SCALE: 3/4" = 1'-0"



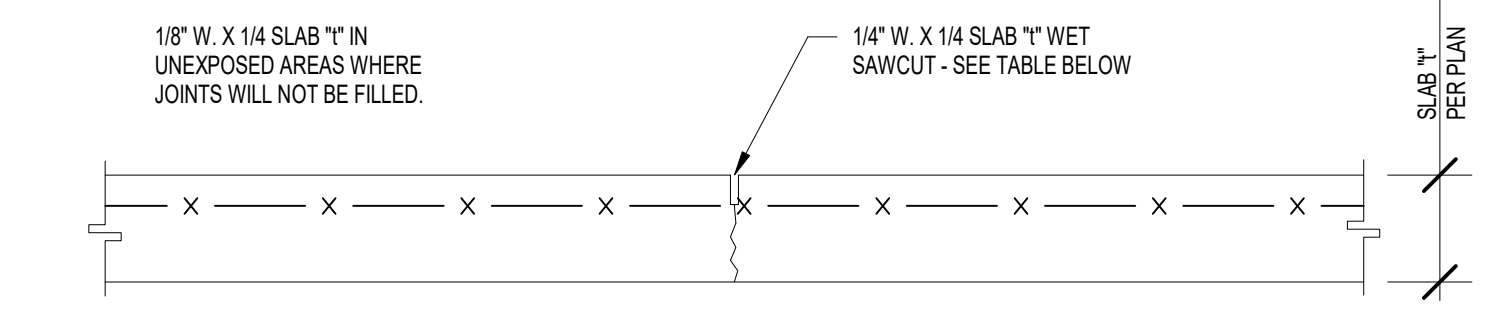
1 EXCAVATION LIMITS DETAILS
S400 SCALE: 3/4" = 1'-0"



5 THICKENED SLAB DETAIL
 S401 SCALE: 3/4" = 1'-0"



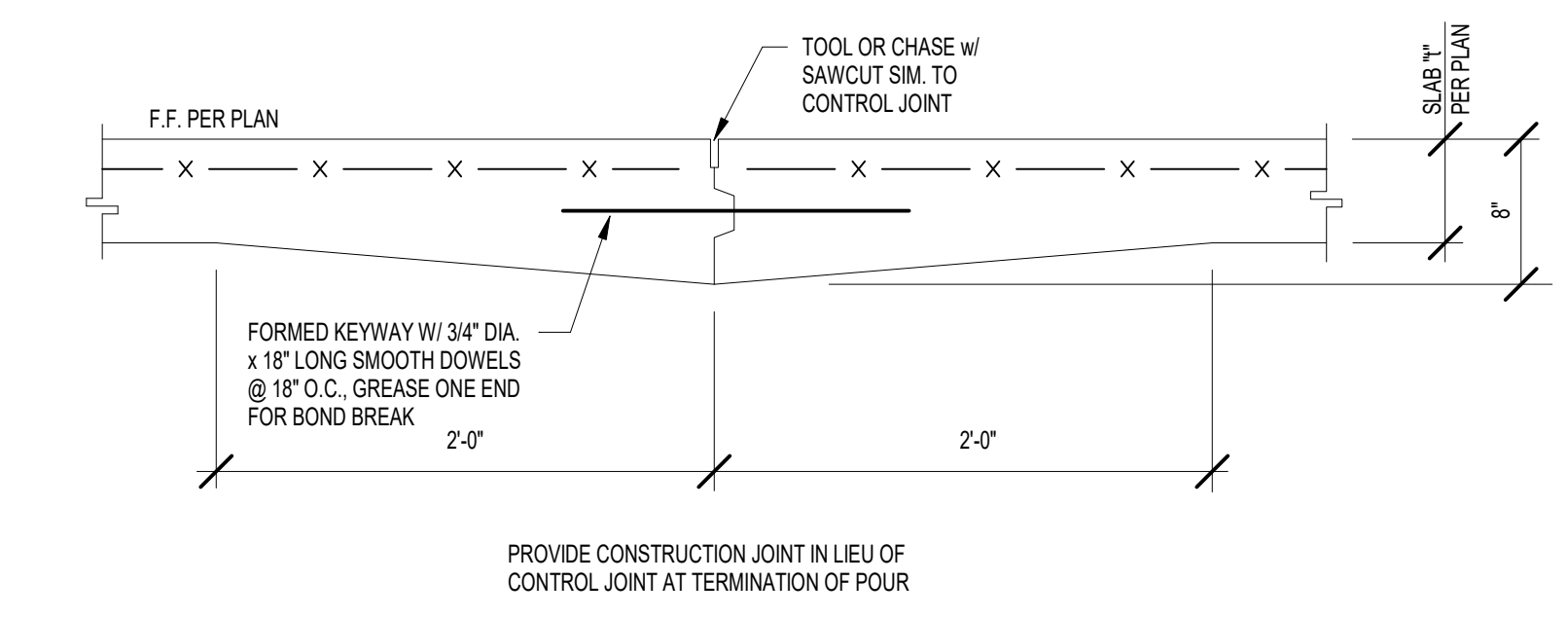
4 MECHANICAL EQUIPMENT PAD
 S401 SCALE: 3/4" = 1'-0"



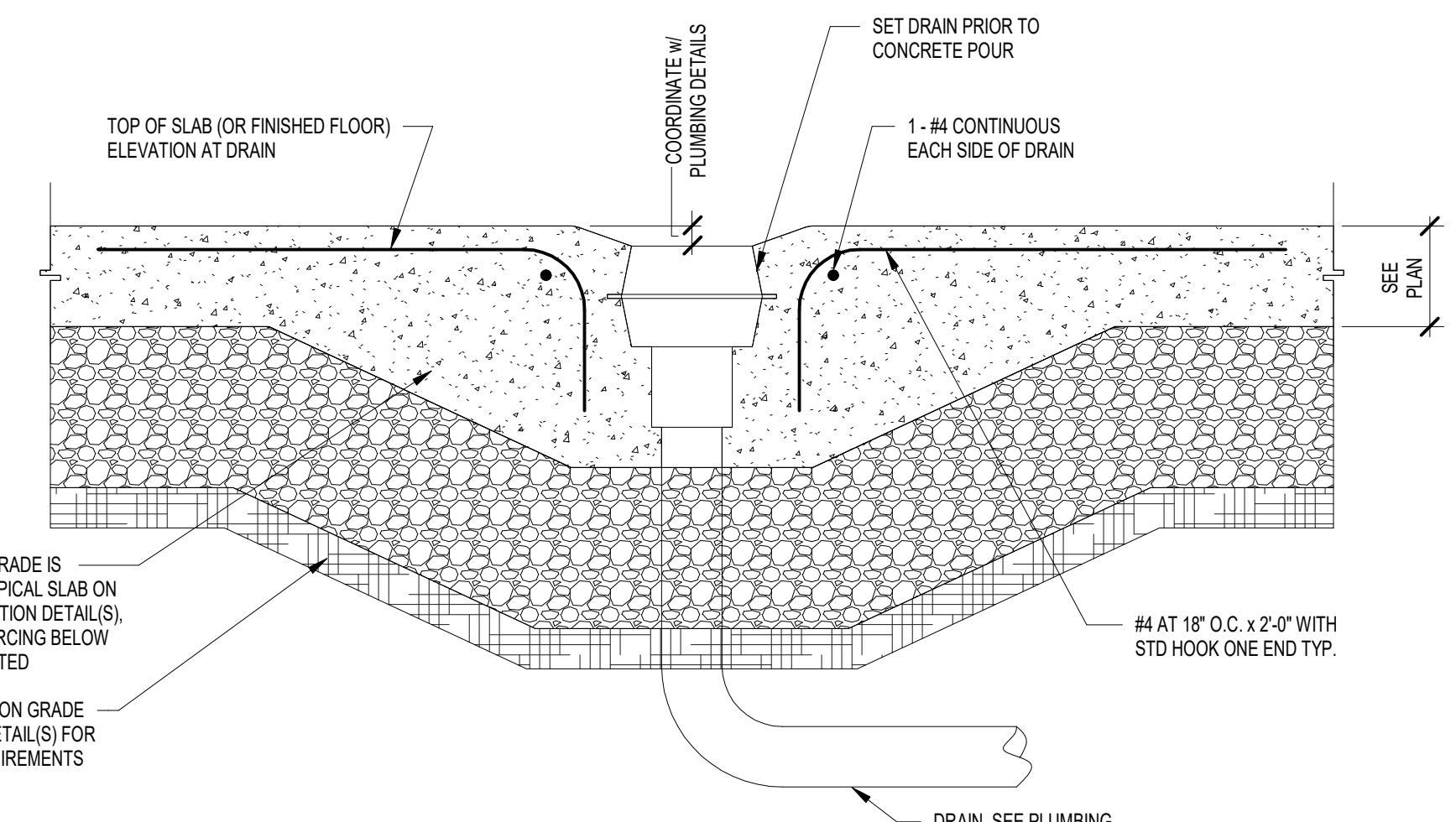
CONTROL JOINTS SHALL BE SAWN NOT LATER THAN THE FOLLOWING TABLE, OR 16 HOURS AFTER FINAL TROWELING (WHICHEVER IS LESS), WHERE TEMP EQUALS THE AMBIENT TEMPERATURE IN DEGREES FAHRENHEIT AT THEN TIME OF FINAL TROWELING. SAWCUTTING SHALL BE SUSPENDED ONLY IF THE LARGE AGGREGATE IS DISLOOED OR LOOSEENED. ALTERNATE: USE PRE-FORMED JOINT FORMER.

TEMP. F°	TIME, HOURS
40°	16
50°	14
60°	8 1/2
70°	5 1/2
80°	4
90°	3

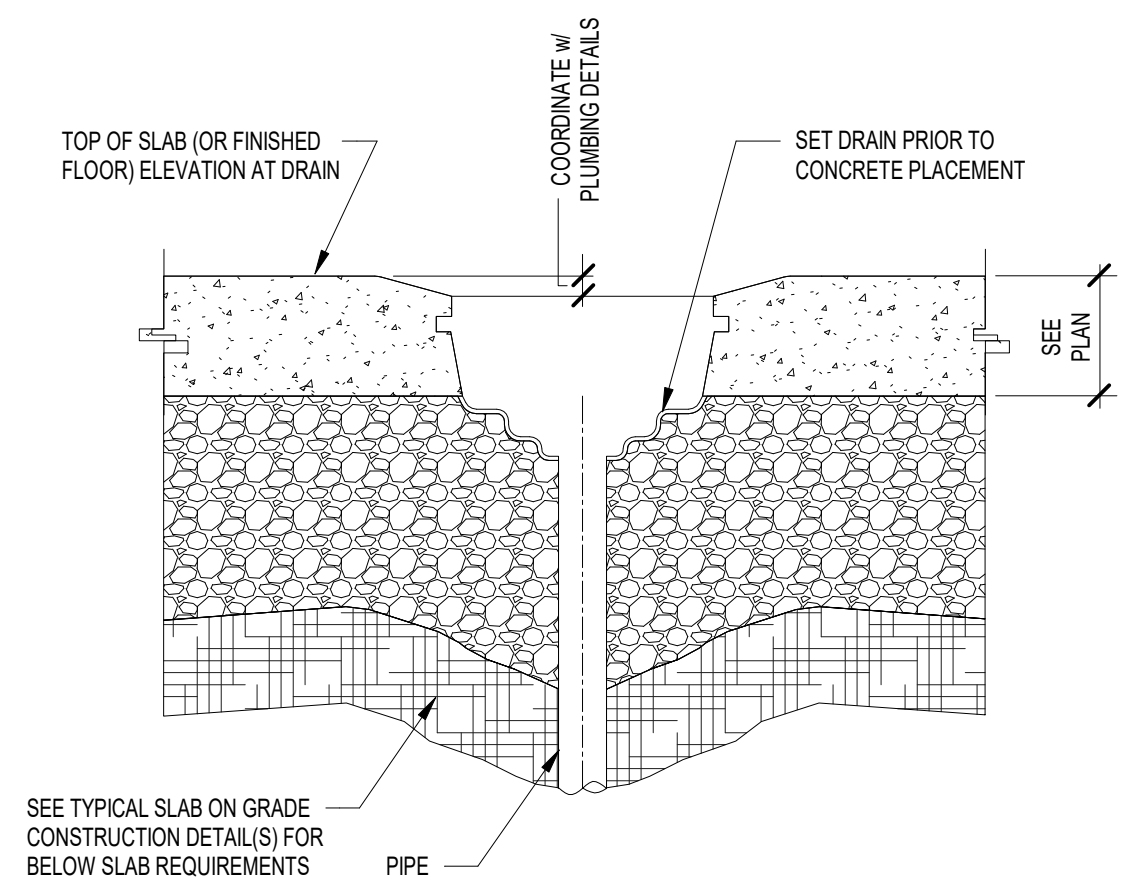
3 SLAB CONTROL/CONTRACTION JOINT
 S401 SCALE: 1" = 1'-0"



2 SLAB CONSTRUCTION JOINT
 S401 SCALE: 1" = 1'-0"

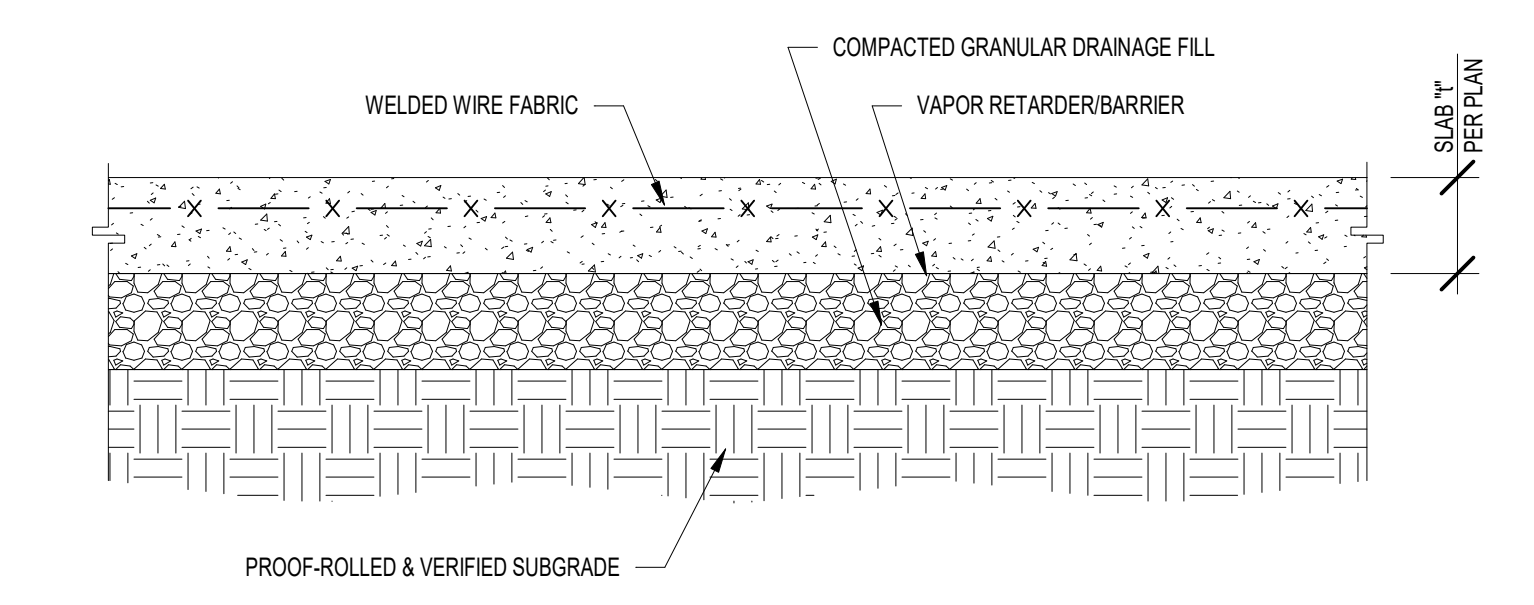


TYPICAL FLOOR TRENCH DRAIN



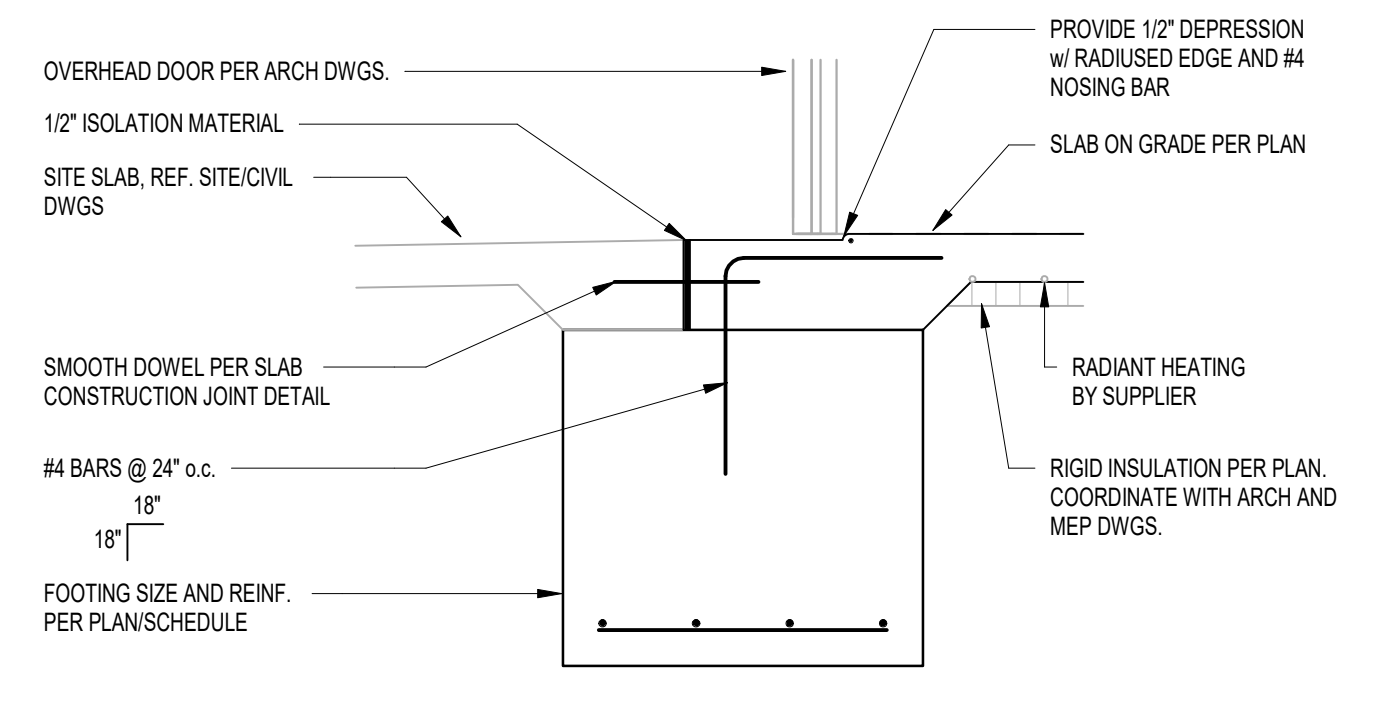
TYPICAL FLOOR DRAIN

6 TYPICAL FLOOR AND TRENCH DRAIN
 S401 SCALE: 3/4" = 1'-0"

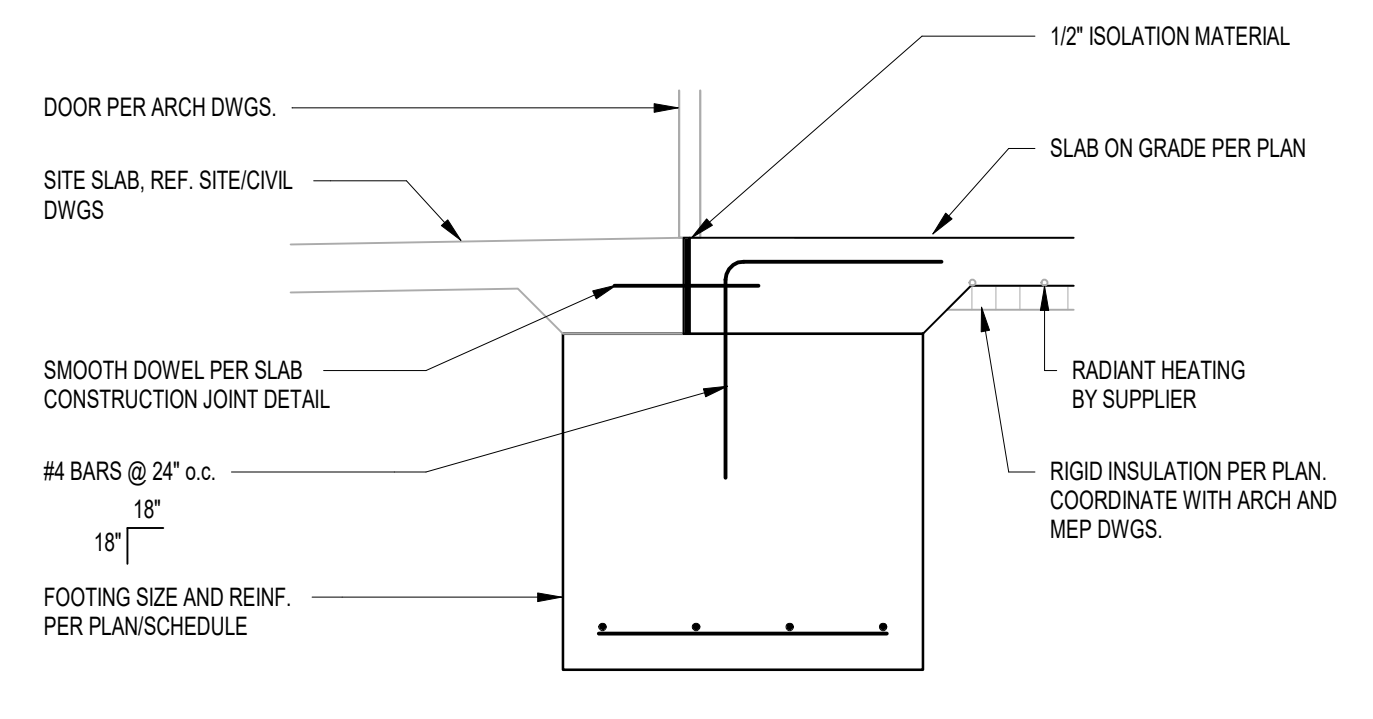


1. LOCATE WELDED WIRE FABRIC IN UPPER THIRD OF SLAB. SUPPORT ON BOLSTERS, CHAIRS, OR CONCRETE BRICKS.
2. LAP WELDED WIRE FABRIC A MIN. OF ONE FULL MESH SPACING.
3. THE USE OF NYLON OR POLYPROPYLENE FIBER IN LIEU OF WELDED WIRE FABRIC AS A SECONDARY REINFORCEMENT IS PERMISSIBLE, UNLESS OTHERWISE NOTED. NOTE: FIBER MAY NOT BE SUBSTITUTED FOR W.W.F. IN SUPPORTED SLABS.
4. SEE PLAN, NOTES, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SUCH AS FINISH, JOINTING, CURING, ETC.

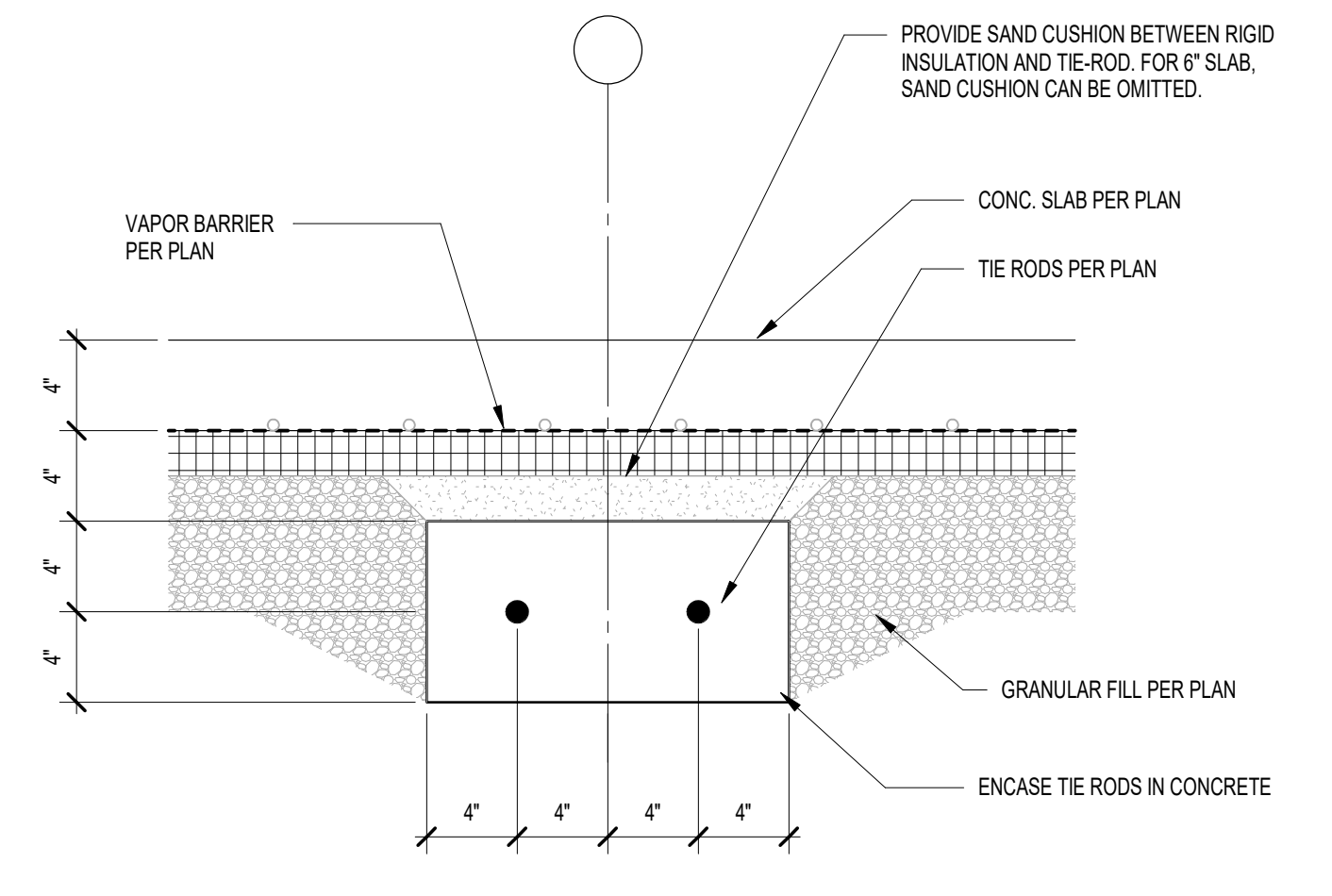
1 SLAB ON GRADE CONSTRUCTION
 S401 SCALE: 1" = 1'-0"



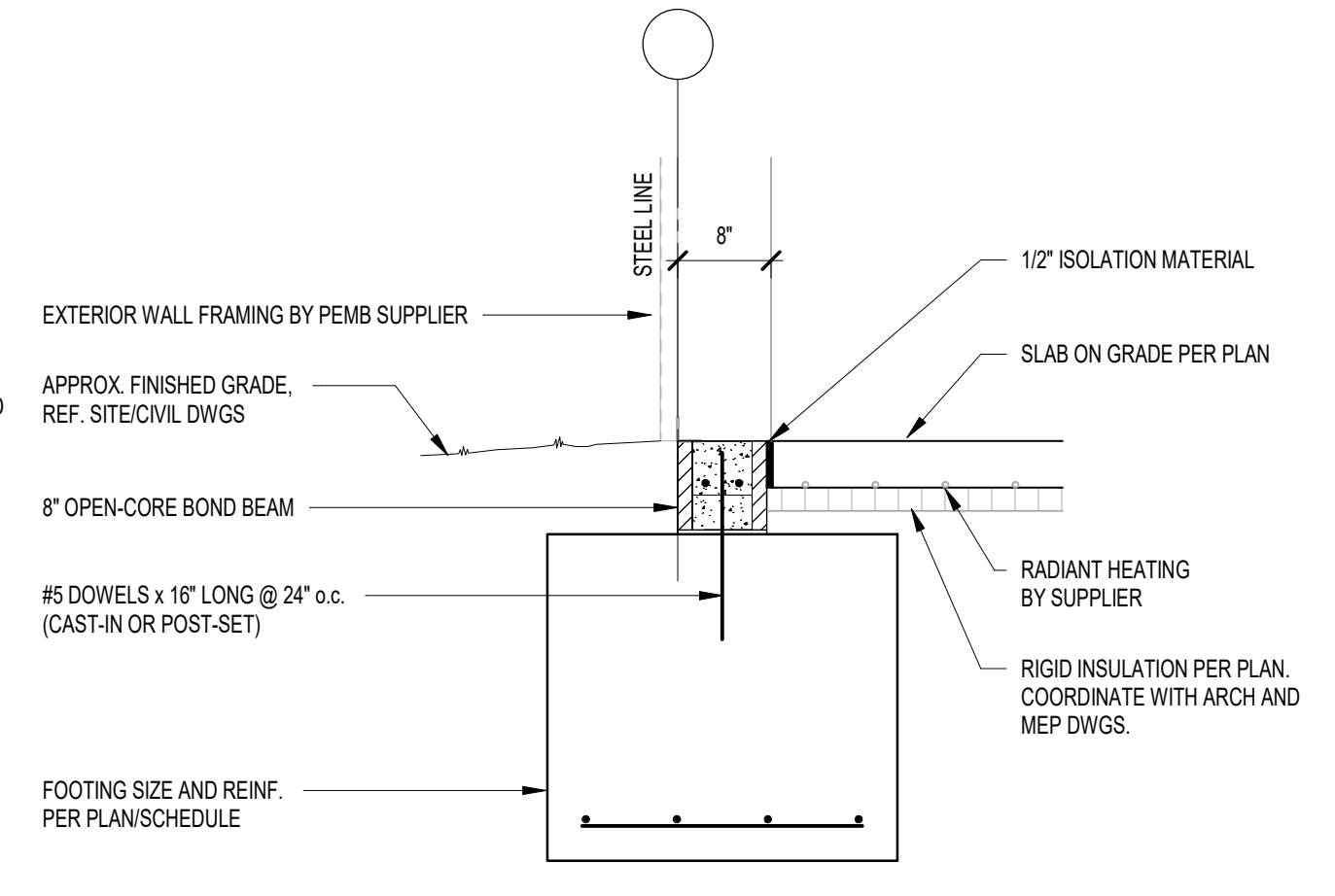
7 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



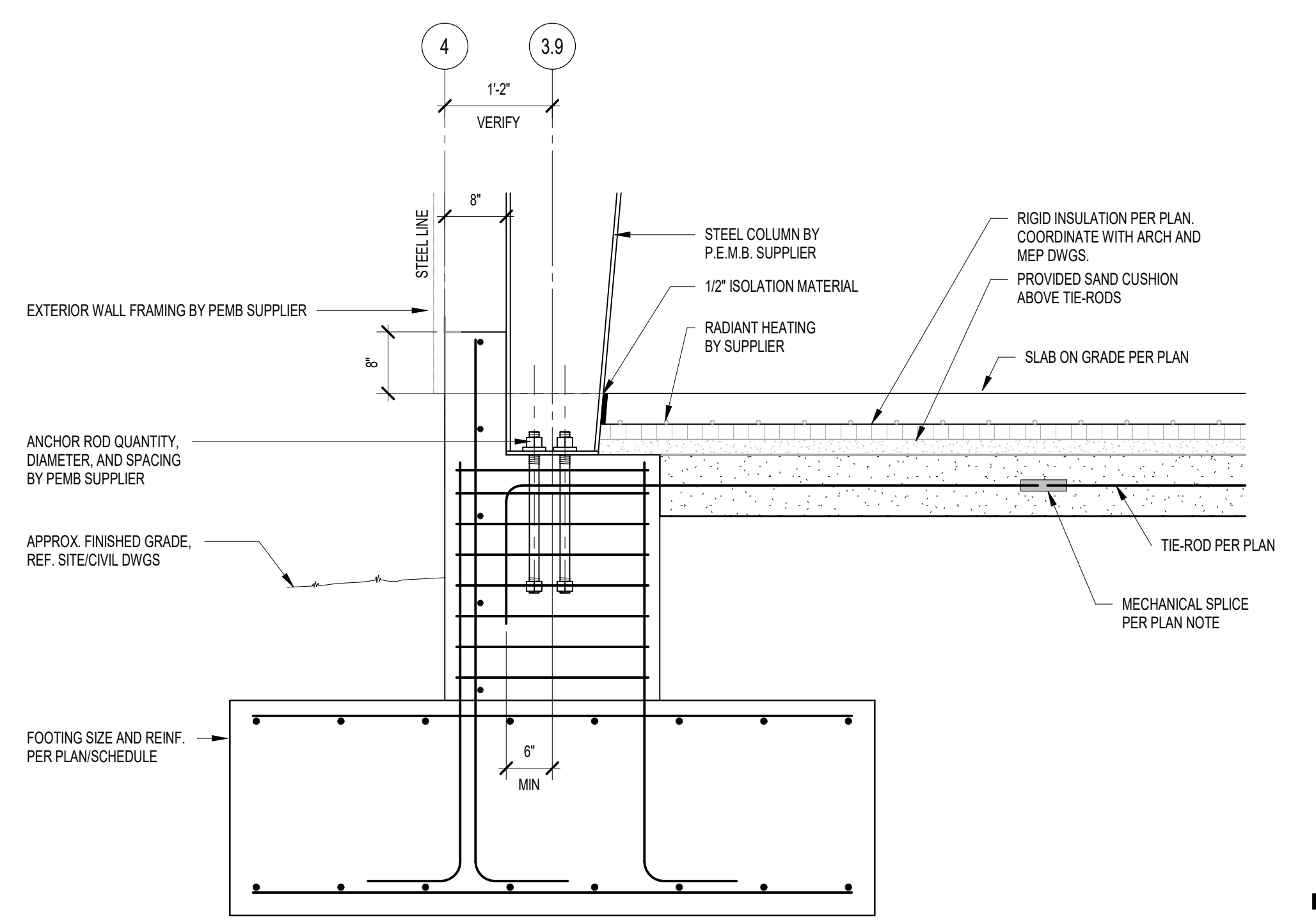
6 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



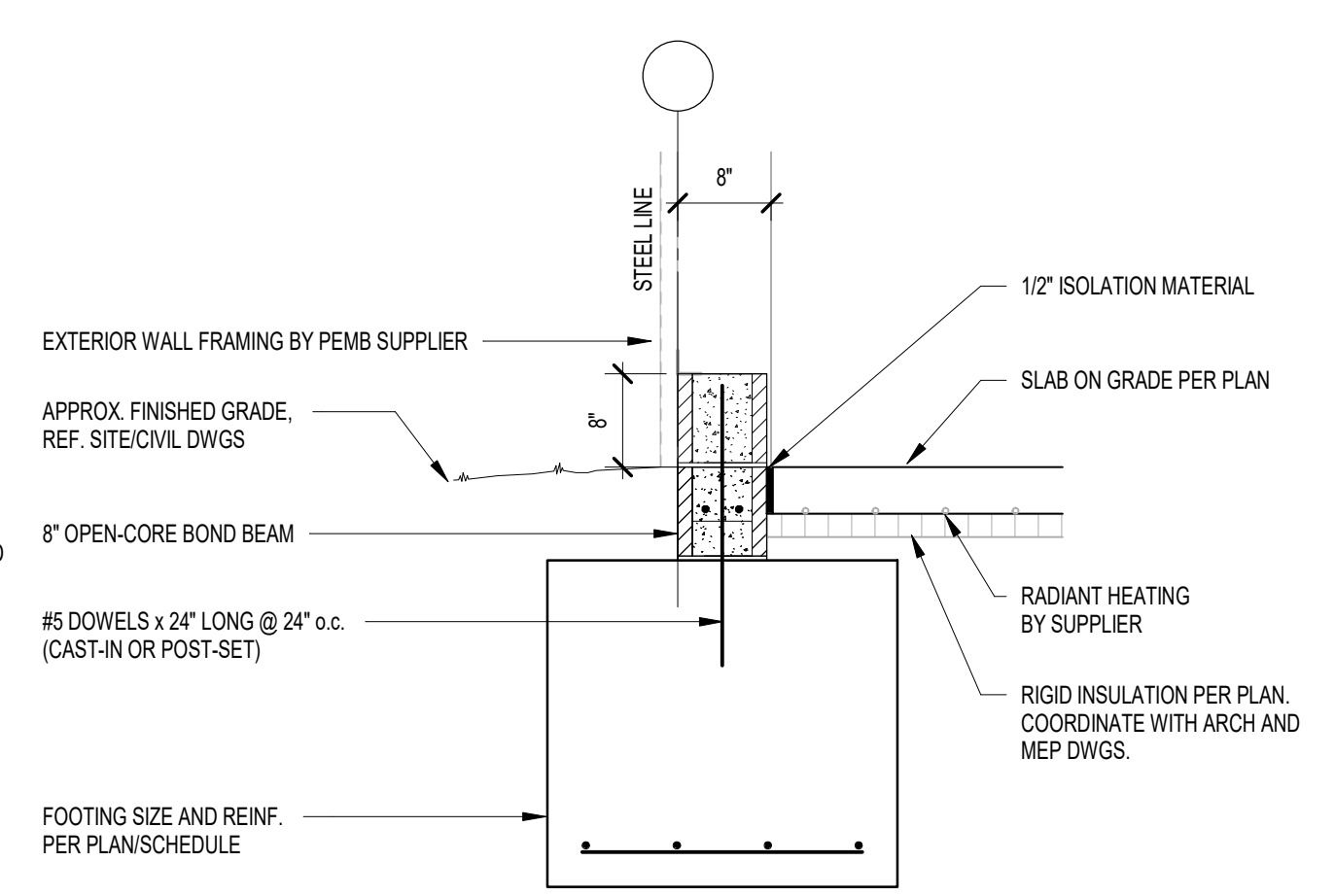
3 FOUNDATION SECTION
S410 SCALE: 1/12" = 1'-0"



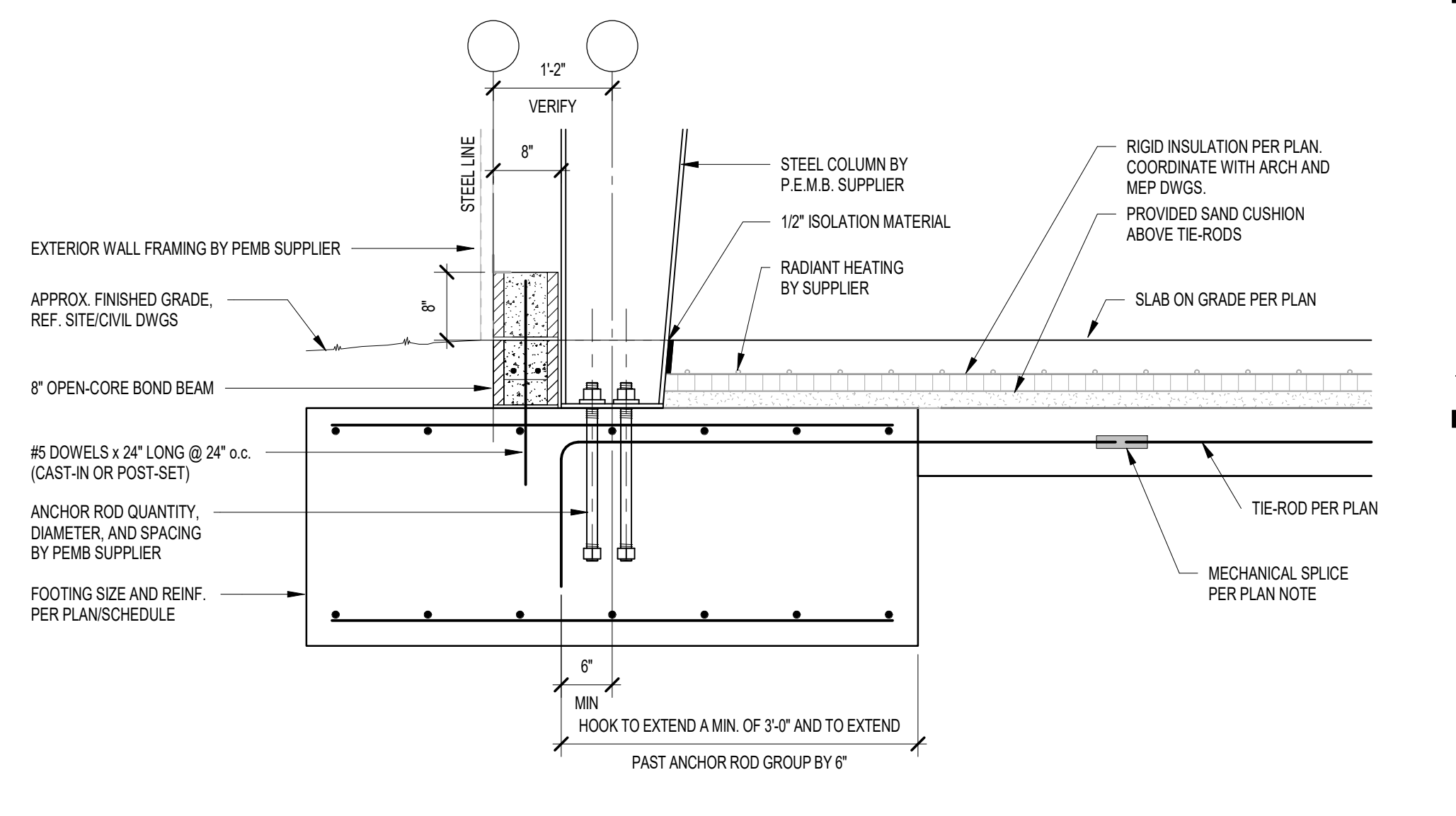
5 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



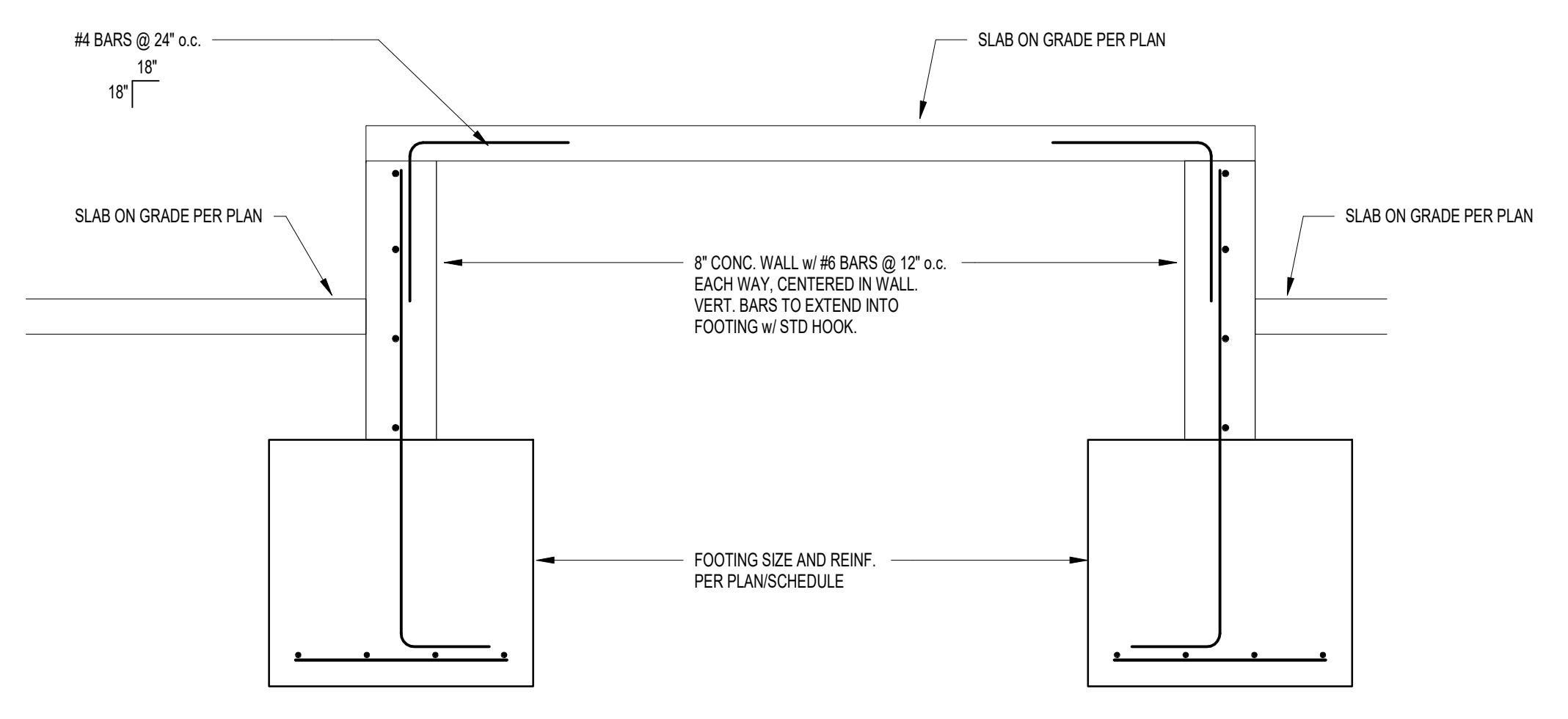
2 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



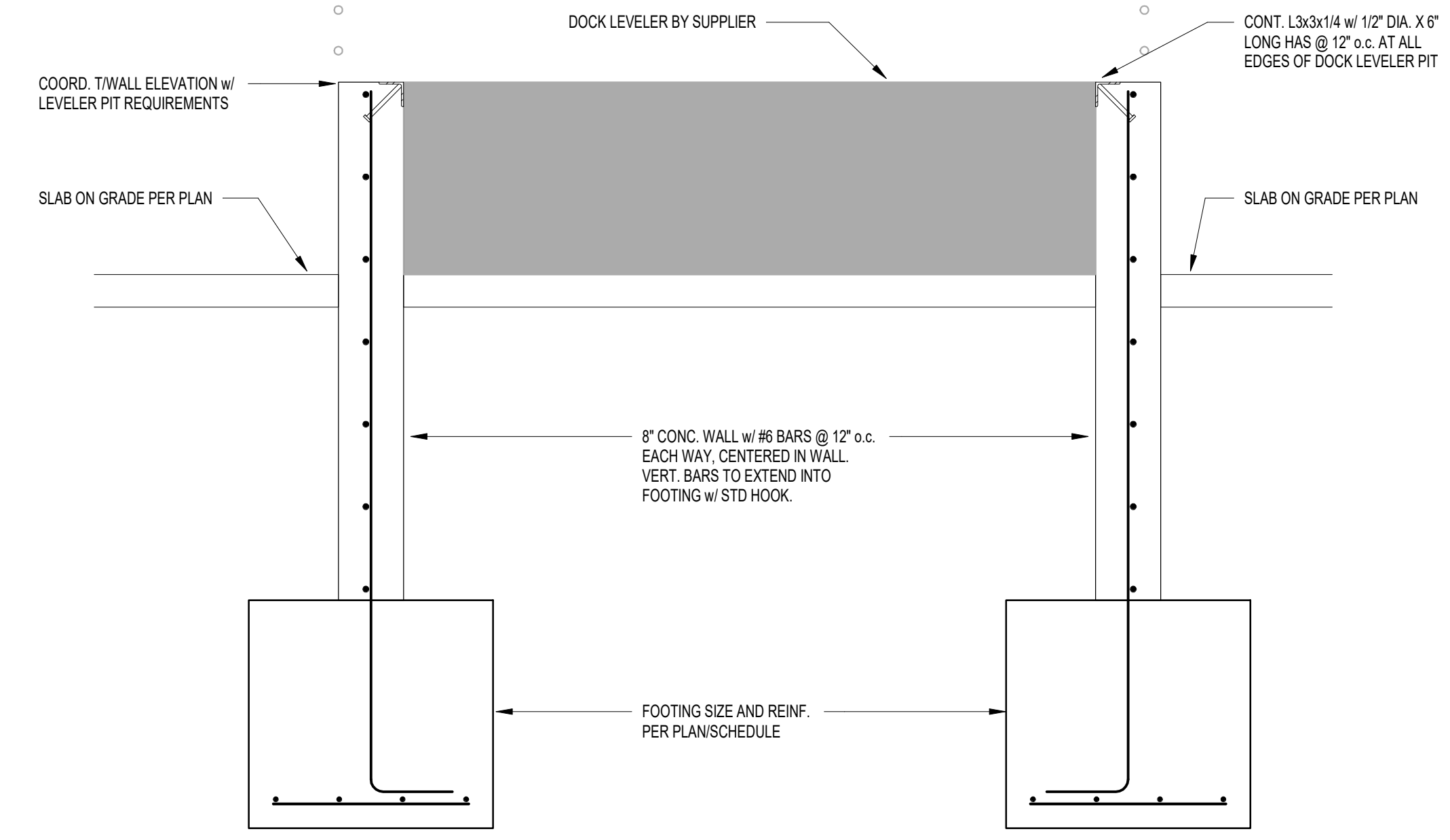
4 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



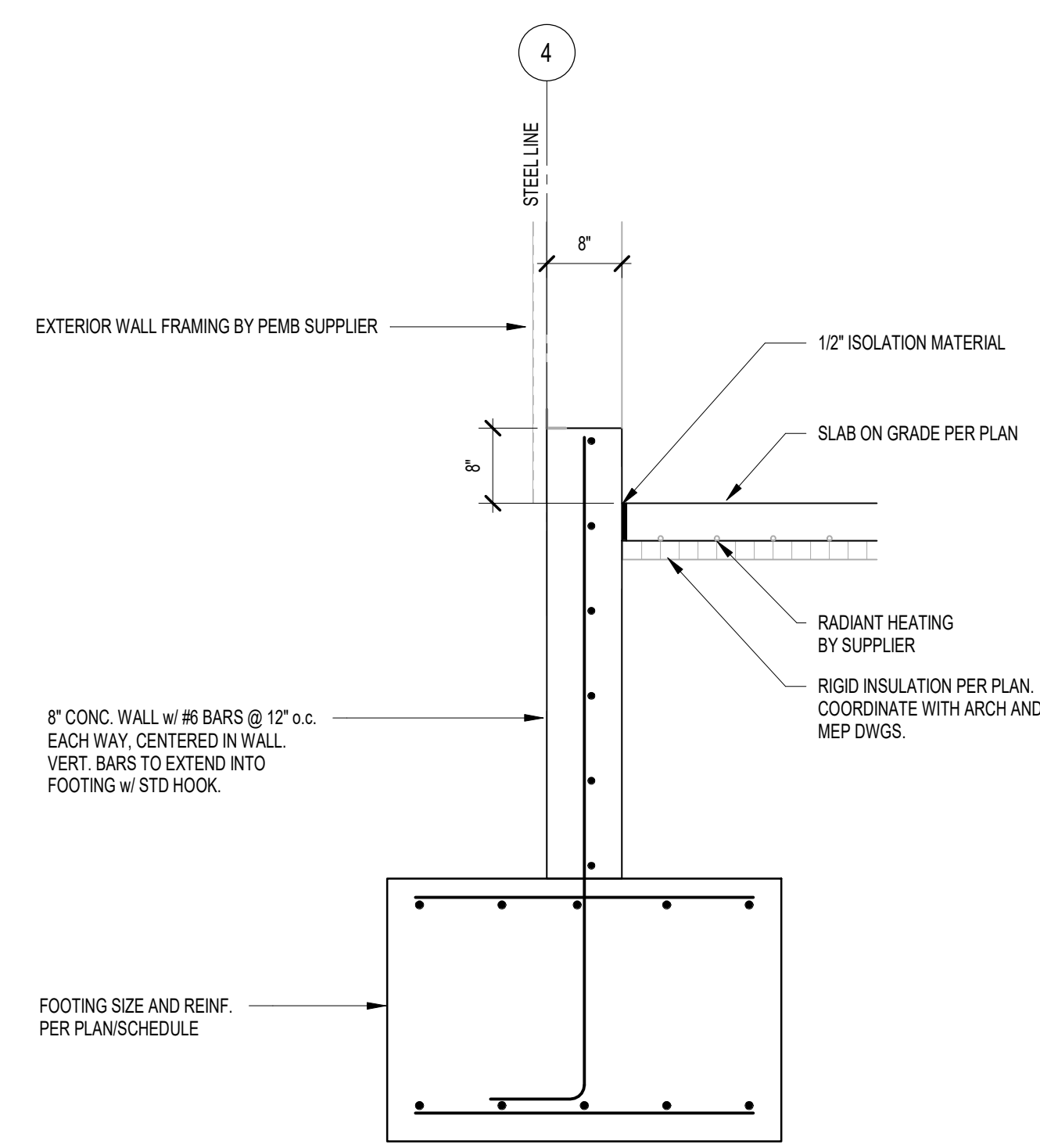
1 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



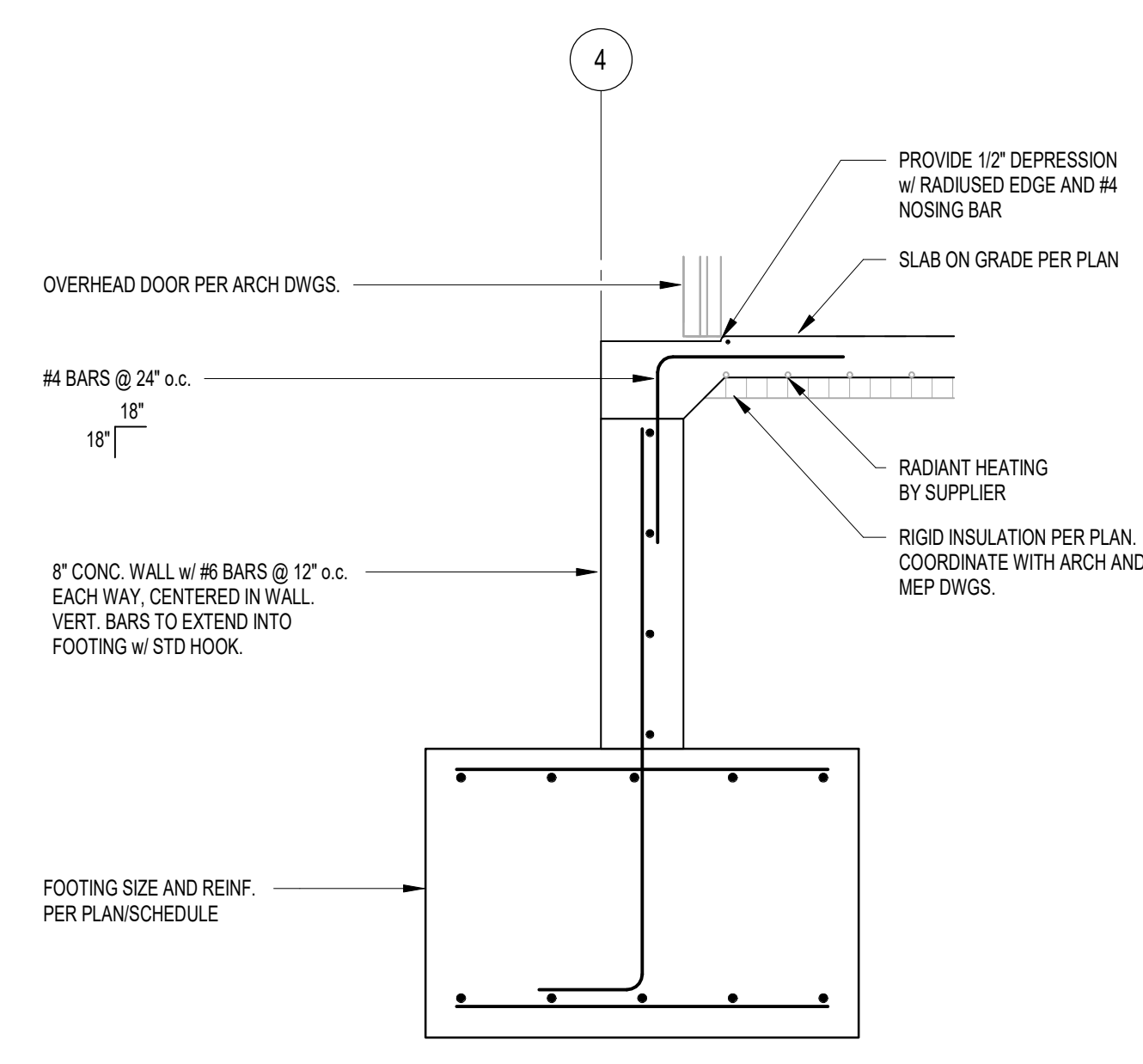
12 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



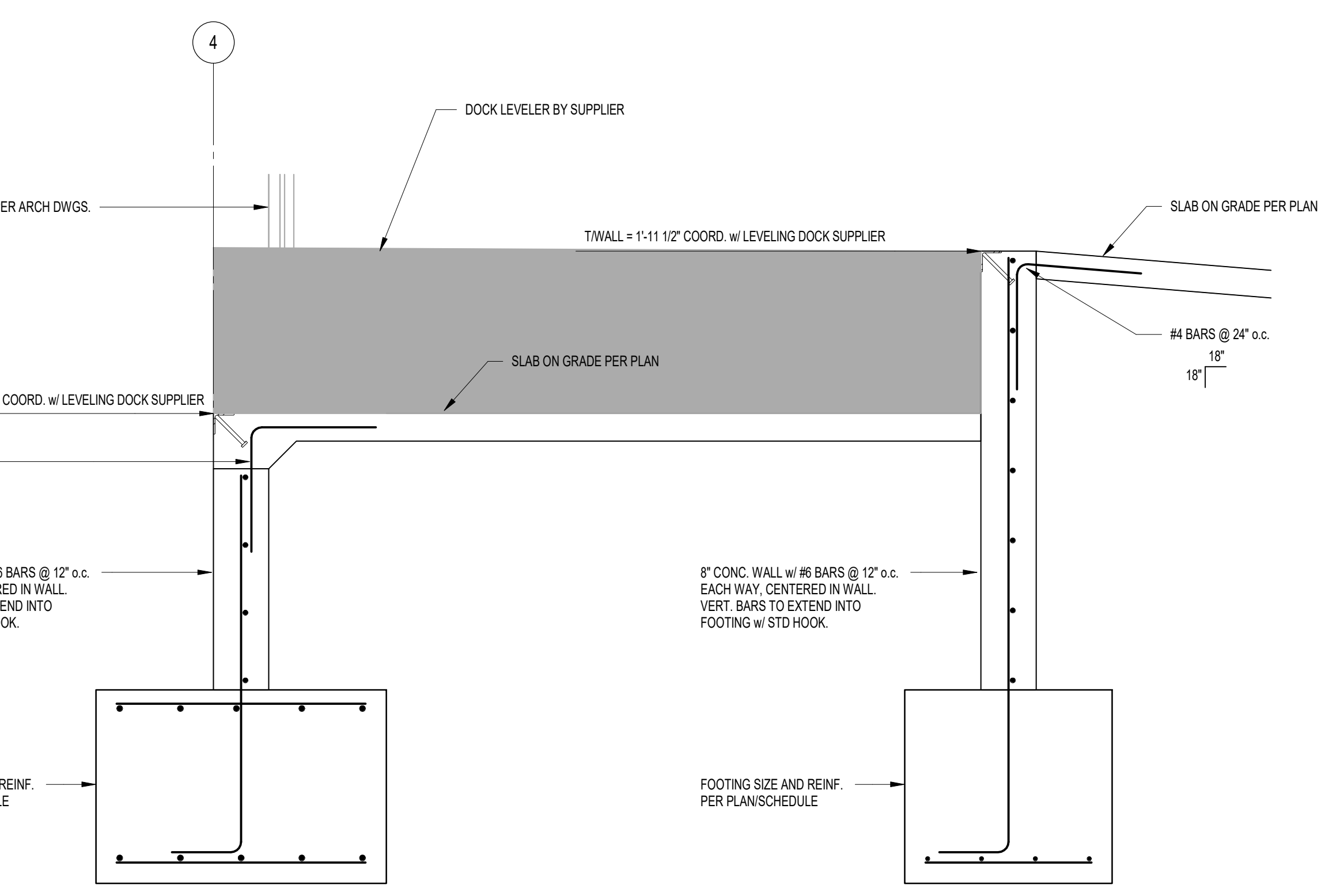
11 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



9 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



8 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



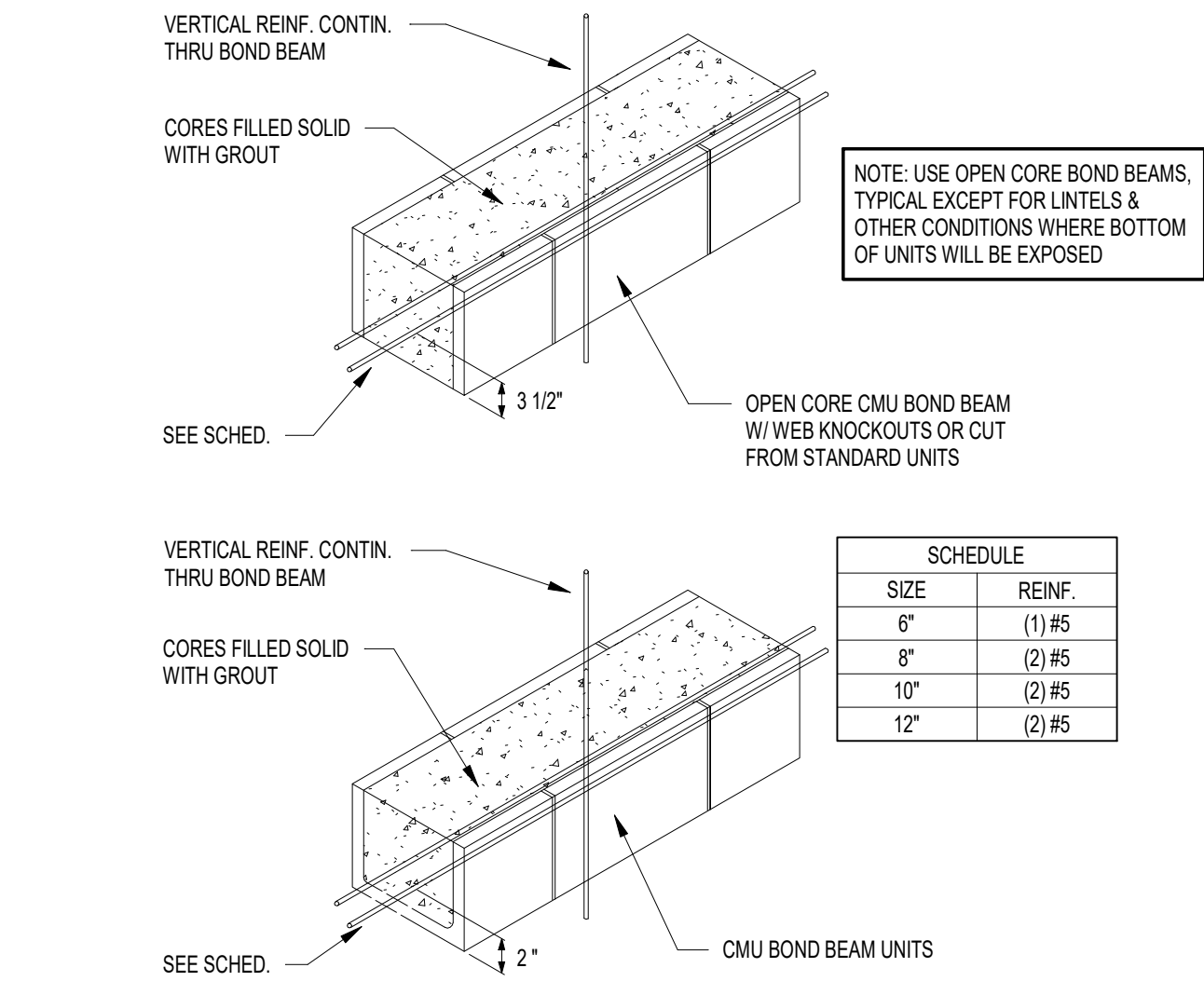
10 FOUNDATION SECTION
S410 SCALE: 3/4" = 1'-0"



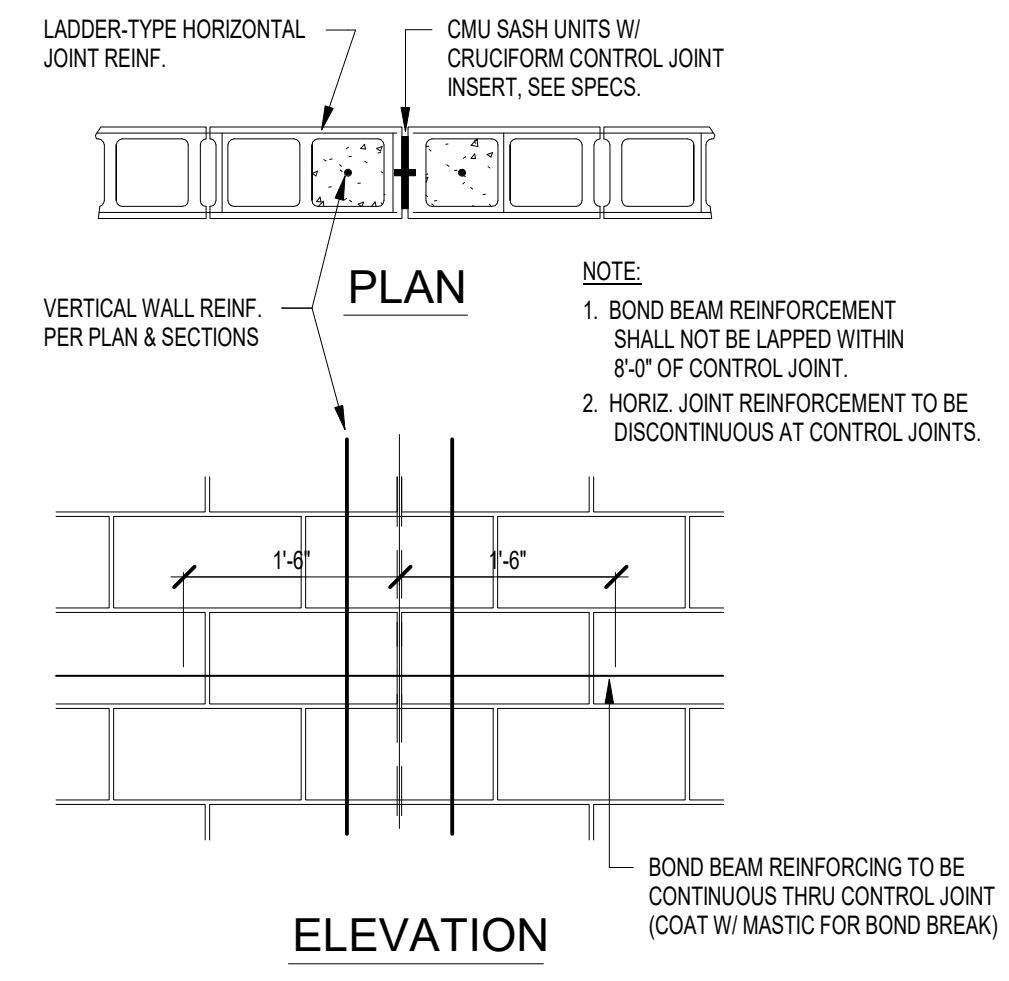
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PROJECT: #23122
DATE: 04/22/2024
DRAWN BY: DJL

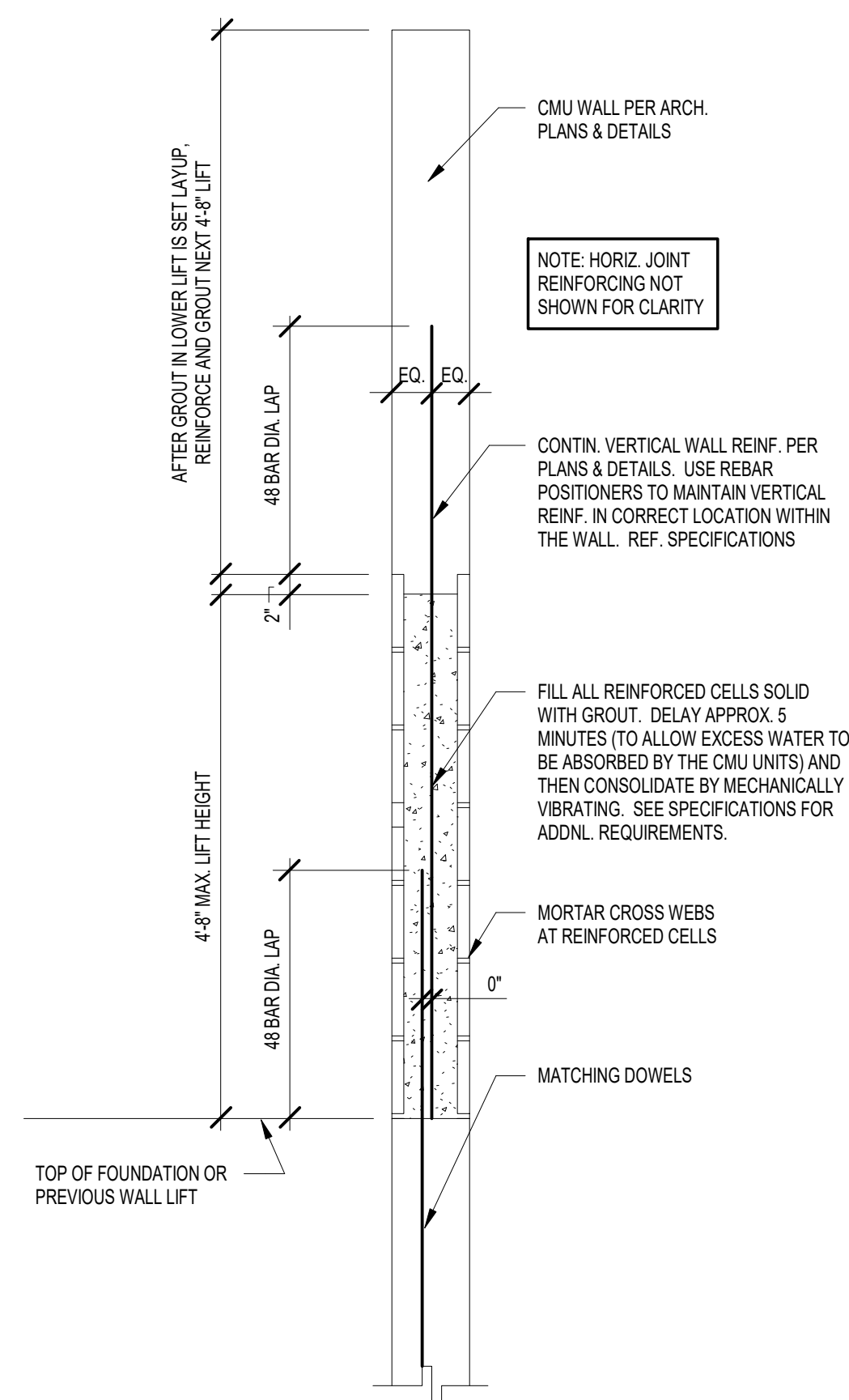
FOUNDATION SECTIONS



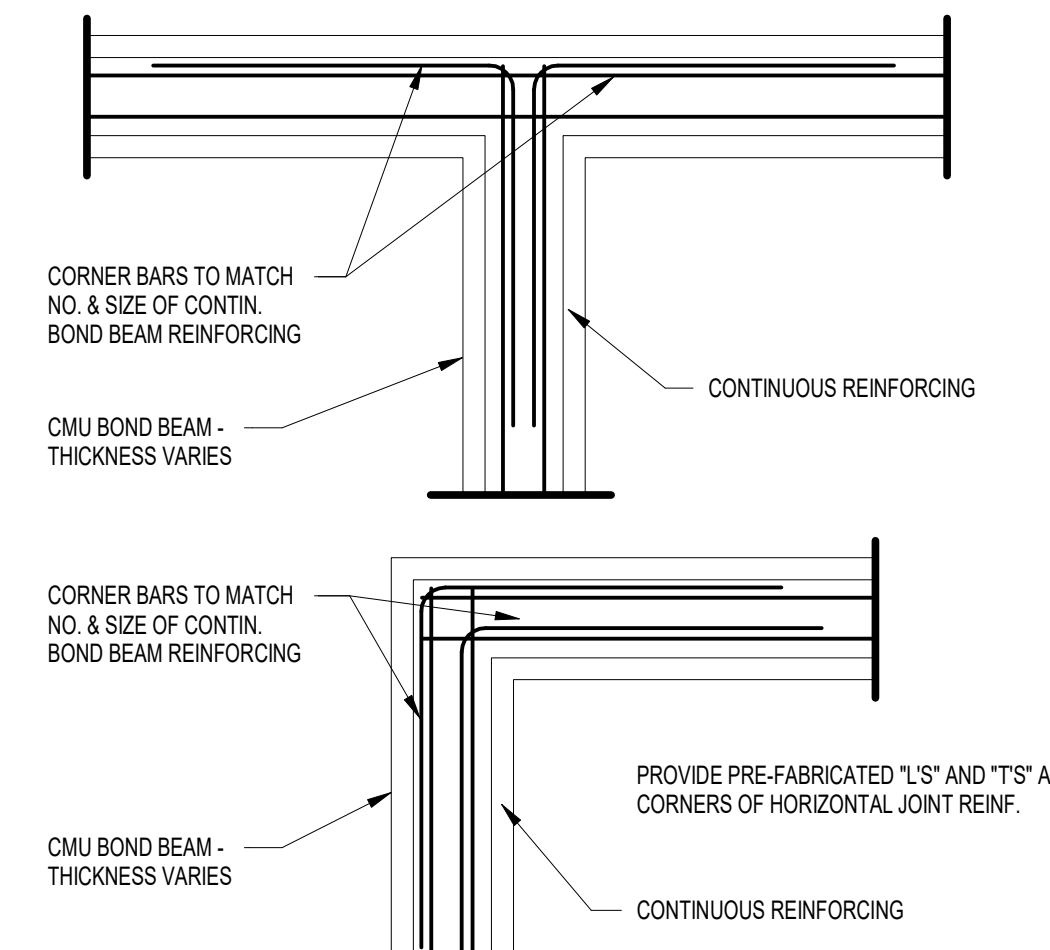
4 CMU BOND BEAM DETAILS
 SCALE: 3/4" = 1'-0"



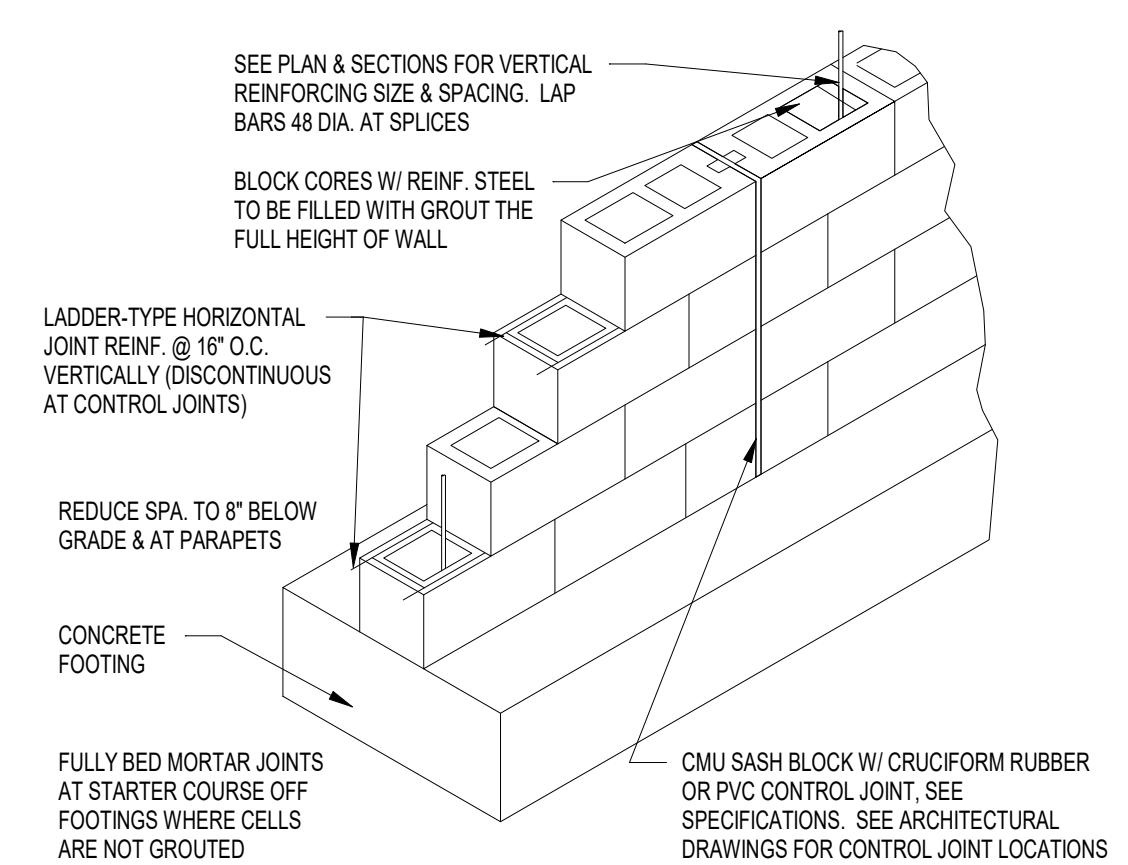
3 CMU CONTROL JOINT DETAIL
 SCALE: 3/4" = 1'-0"



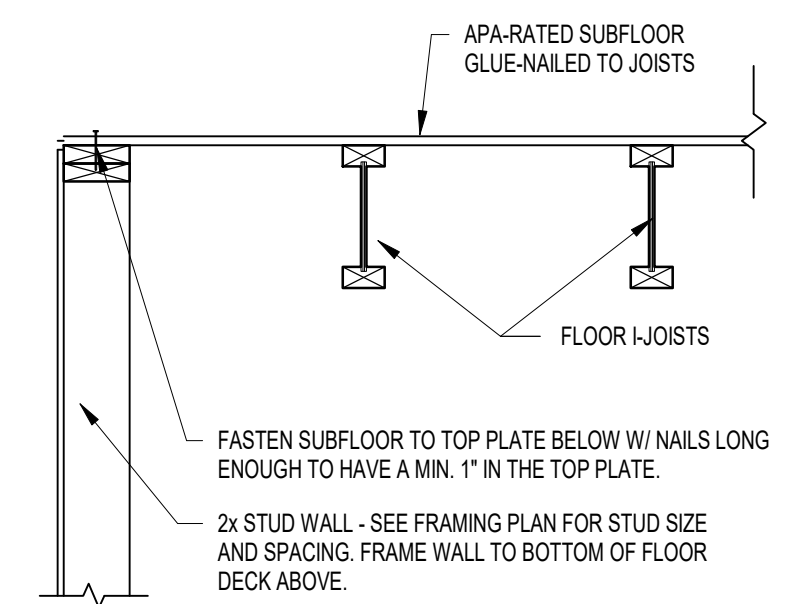
2 LOW-LIFT WALL CONSTRUCTION
 SCALE: 3/4" = 1'-0"



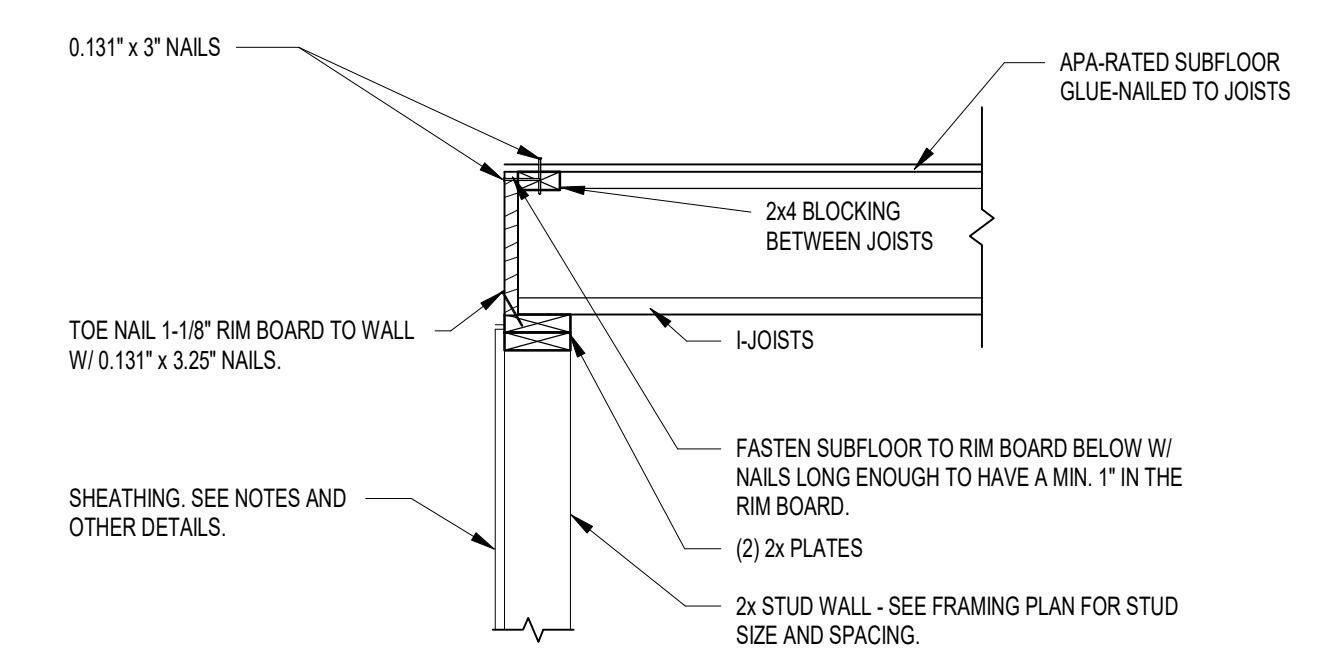
5 BOND BEAM INTERSECTION DETAILS
 SCALE: 3/4" = 1'-0"



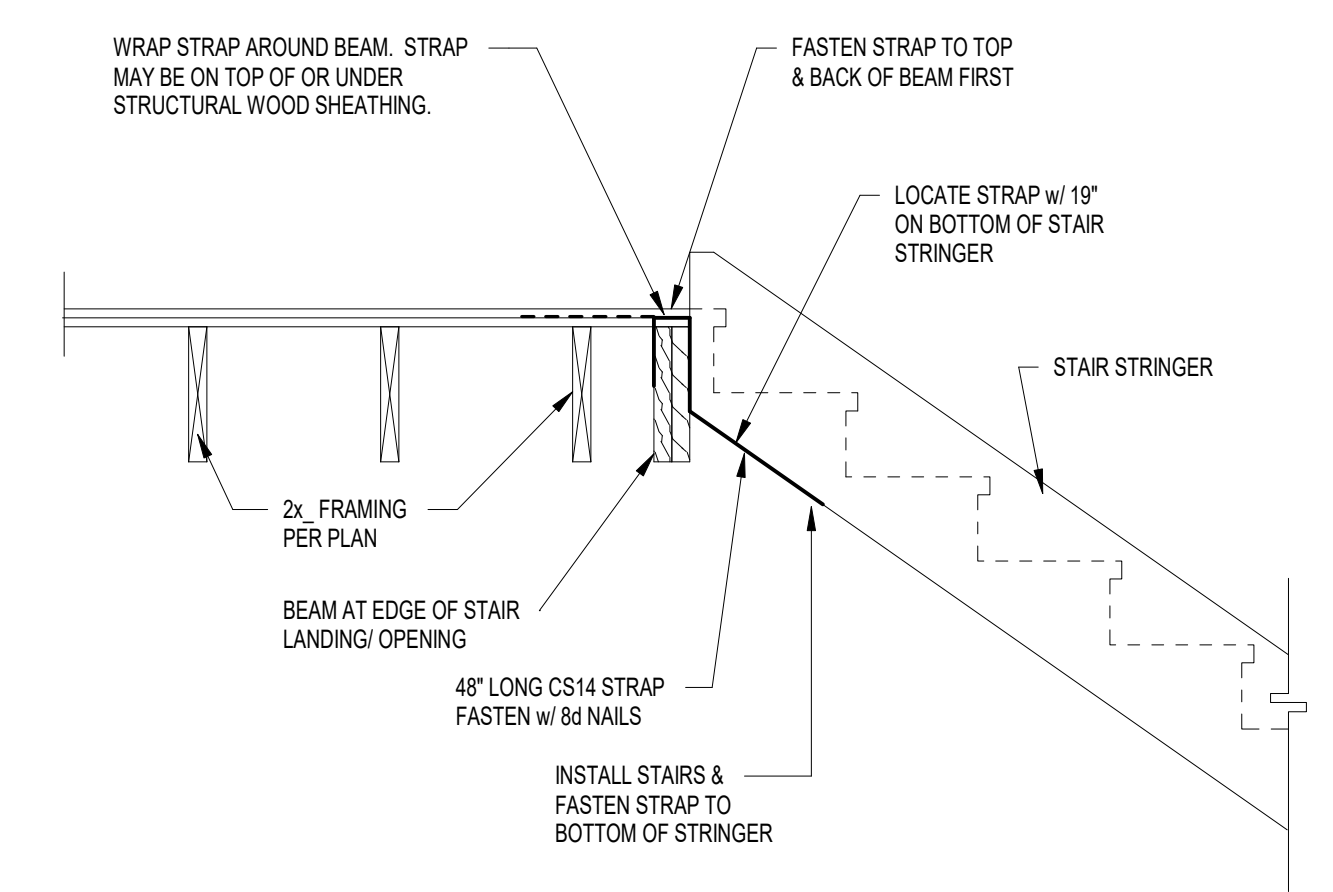
1 REINFORCED MASONRY DETAIL
 SCALE: 3/4" = 1'-0"



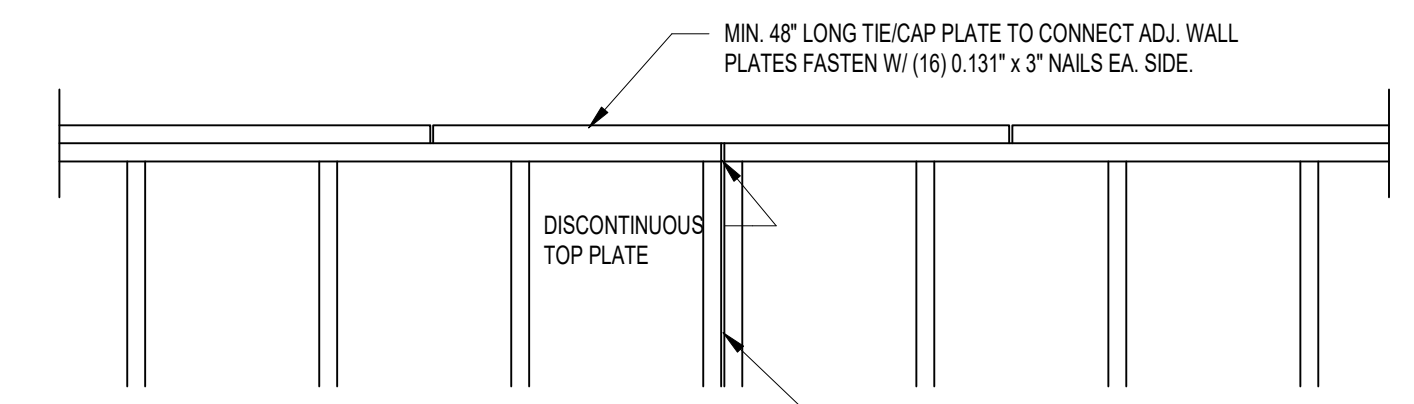
5 WALL JOIST PARALLEL
 SCALE: 3/4" = 1'-0"



4 WALL JOISTS PERPENDICULAR
 SCALE: 3/4" = 1'-0"



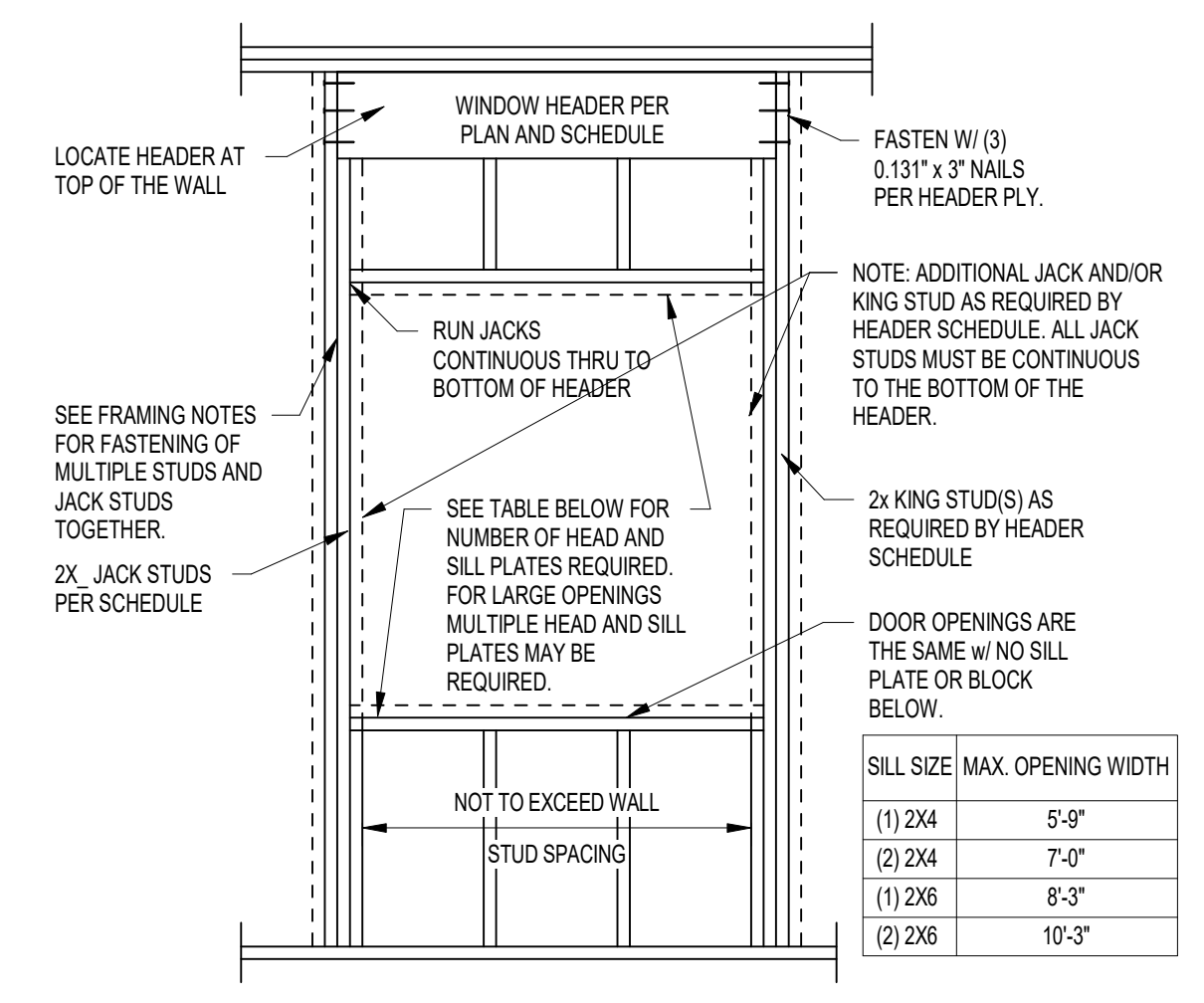
3 STAIR STRINGER SUPPORT DETAIL
 SCALE: 3/4" = 1'-0"



NOTE: DETAIL IS FOR EXTERIOR WALLS, BEARING WALLS AND SHEAR WALLS. FOR OTHER WALLS FOLLOW THE REQUIREMENTS OF THE IBC BUILDING CODE FOR CONVENTIONAL FRAMING.

POSSIBLE JOINT IN SHEATHING WITH ADJACENT SHEATHING NOT ATTACHED TO THE SAME STUD (SUCH AS PRE-FAB WALL PANEL JOINT OR WALL WITH DOUBLE STUDS). SEE DETAIL "SHEAR WALL CONTINUITY DETAILS - WALL JOINTS".

2 WALL CONTINUITY CAP PLATE DETAIL
 SCALE: 3/4" = 1'-0"



1 TYPICAL WALL OPENING
 SCALE: 3/4" = 1'-0"

ABBREVIATIONS

AB	Anchor Bolt
ACP	Acoustical Ceiling Panel
ACT	Acoustical Ceiling Tile
ADJ	Adjustable
AFF	Above Finished Floor
AGG	Aggregate
ALT	Alternate
ALUM/AL	Aluminum
ANOD	Anodized Finish
AP	Access Panel
APPROX	Approximate
AV	Audio Visual
AWRB	Air/Water Resistive Barrier
B	Bench Mark
B M	Bench Mark
BATT	Batt Insulation
BCMU	Burnished Concrete Masonry Unit
BD	Board
BFE	Bottom Footing Elevation
BIT	Bituminous
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Beam
BOTT	Bottom
BGT	Brick
BRG	Bearing
BUR	Built-Up Roof
C	Cabinet
CB	Catch Basin
CBD	Cementitious Board
CEM	Cement
CFG	Clear Float Glass
CFM	Cubic Foot Per Minute
CG	Corner Guard
CHBD	Chalk Board
CI	Cast Iron
CIP	Cast In Place
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CLO	Closet
CMU	Concrete Masonry Unit
CO	Cleanout
COL	Column
CONC	Concrete
CONC BLK	Concrete Block
CONF	Conference
CONST	Construction
CONT	Continuous
CORR	Corridor
CP	Cement Plaster
CPT	Carpet
CSWK	Casework
CT	Ceramic Tile
D	Demolition
DEPT	Department
DF	Drinking Fountain
DIA	Diameter
DIM	Dimension
DRG	Decking
DN	Down
DR	Door
DS	Downspout
DWG	Drawing
DWLS	Dowels
E	Existing Material
EA	Each
EDC	Elastomeric Deck Coating
EHD	Electric Hand Dryer
EIFS	Exterior Finished Insulation System
EJ	Expansion Joint
ELEC	Electric
ELEV	Elevation or Elevator
ENT	Entrance
EQ	Equal
EQUIP	Equipment
EW	Each Way
EWIC	Electric Water Cooler
EXIST	Existing
EXP	Exposed
EXT	Exterior
F	Fire Blanket Cabinet
FBC	Face Brick
FD	Floor Drain
FDN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Factory Finish
FFE	Finished Floor Elevation
FG	Fire Glass

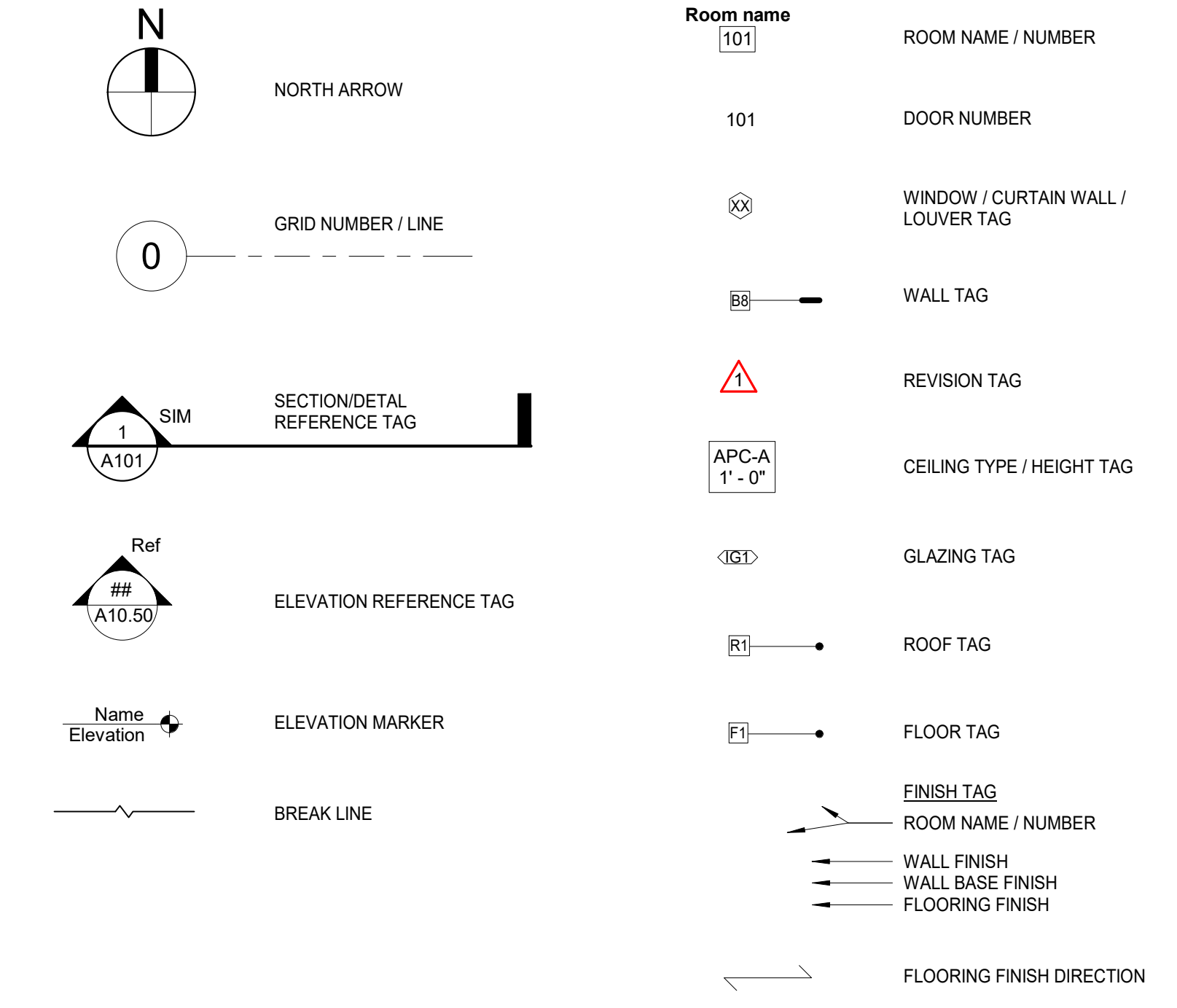
ABBREVIATIONS

FN	Finish
FXT	Fixture
FLR	Floor
FND	Feminine Napkin Dispenser
FNDISP	Feminine Napkin Dispenser
FOM	Face of Masonry
FR	Fire Rated
FRM	Frame
FRMG	Framing
FRP	Fiberglass Reinforced Paneling
FT	Foot or Feet
FTG	Footing
FURR	Furring
G	Galvanized
GALV	Galvanized
GB/ GYP. BD	Gypsum Board
GBLK	Glazed Block
GC	General Contractor
GEN	General
GL	Glass or Glazing
GL BLK	Glass Block
GL-U-LAM	Glue Laminated
H	Handicapped
HC	Handicapped
HDW	Hardware
HDWD	Hardwood
HGT	Height
HM	Hollow Metal
HORZ	Horizontal
HR	Hour/ Handrail
HVAC	Heating or Venting or A/C
HYD	Hydrant
I	Inside Diameter
ID	Inside Diameter
IG	Insulated Glass
IGT	Insulated Glass Tempered
INSUL	Insulation
INT	Interior
INV	Invert
IRGB	Impact Resistant Gypsum Board
ISSO	Insulated Steel Section Overhead
J	Joint
JAN	Janitor
JBE	Joist Bearing Elevation
JST	Joist
K	Knock Out
KO	Knock Out
L	Laboratory
LAB	Laboratory
LAM	Laminated
LAV	Lavatory
LF	Lineal Foot
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LWGB	Lightweight Concrete Block
M	Machine
MACH	Machine
MAF	Modular Athletic Flooring
MAS	Masonry
MAT	Material
MAX	Maximum
MBD	Marker Board
MCC	Multi-Color Coating
MECH	Mechanical
MEMB	Membrane
MET	Metal
MEZZ	Mezzanine
MFR	Manufacturer
MIN	Minimum or Minutes
MISC	Miscellaneous
MO	Masonry Opening
MR	Mirror
MULL	Mullion
N	North
NIC	Not In Contract
NO	Number
NOM	Nominal
VP	Not To Scale
O	Overall
OA	Overall
OC	On Center
OD	Outside Diameter
OFF	Office
OHDR	Overhead Door
OPG	Opening
OPP	Opposite
P	Precast Concrete
P/C	Precast Concrete
PC-TERR	Pre-Cast Terrazzo
PERF	Perforated
PF	Prefinished
PL	Plate
PLAM	Plastic Laminate
PLAS	Plaster

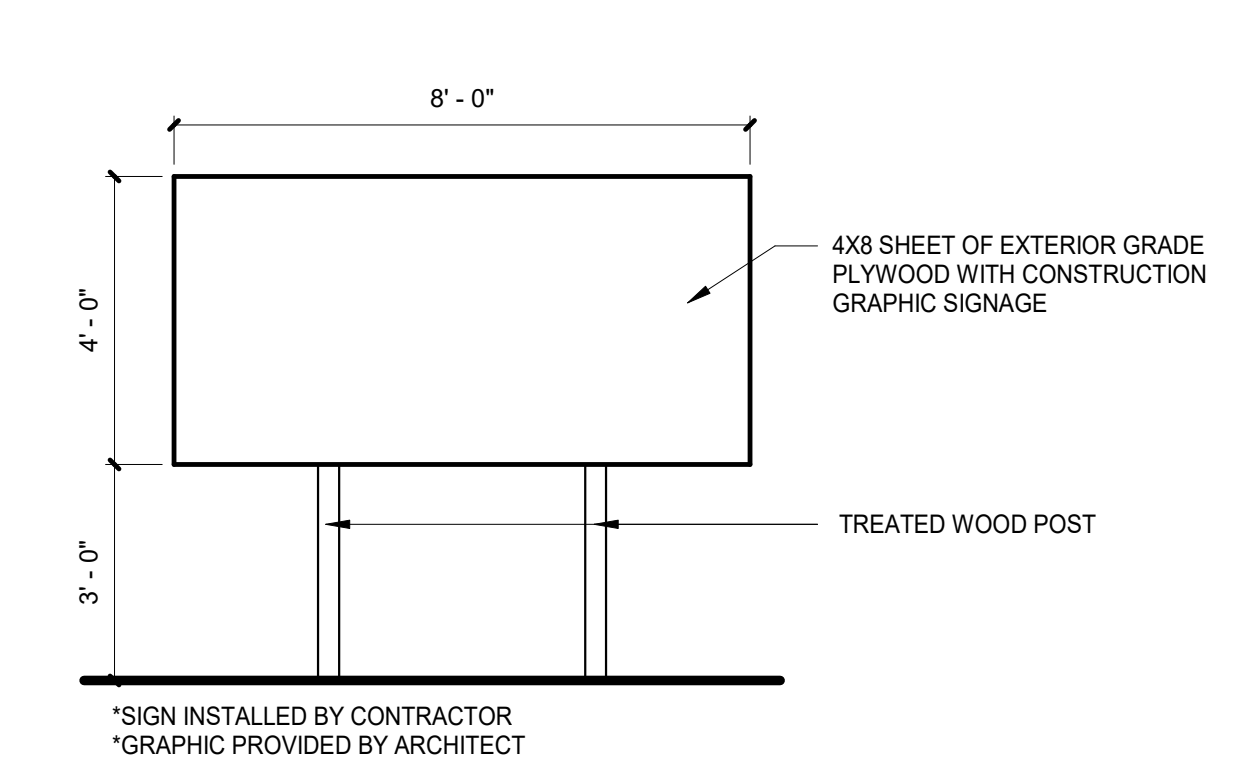
ABBREVIATIONS

PLBG	Plumbing
PLYWD	Plywood
PNL	Panel or Paneling
PPT	Porcelain Paver Tile
PROJ	Projection
PROP	Property
PT	Paint
PTD	Paper Towel Dispenser
PTDR	Paper Towel Dispenser/ Receptor
Q	Quarry Tile
QT	Quarry Tile
R	Riser/ Radius
RAD	Radiation
RB	Rubber Base
RD	Roof Drain
RDS	Roof Drainage Scuppers
REC	Recessed
REF	Refrigerator
REINF	Reinforced or Reinforcing
REOD	Required
REV	Reverse
RM	Room
RO	Rough Opening
ROD	Roof Overflow Drain
RCS	Roof Overflow Scupper
RS	Roof Scupper
RSS	Roof Slope (structural)
RST	Roof Sloped (tapered insulation)
RT	Rubber Tire or Tread
RTU	Roof Top Unit (see mechanical)
RUB	Rubber
RWL	Rain Water Leader
S	Schedule
SCHED	Schedule
SD	Soap Dispenser
SEAL	Sealed Concrete
SECT	Section
SGFT	Structural Glazed Facing Tile
SIM	Similar
SLMT	Sealant
SLR	Stair
SPEC	Specification
SQFT	Square
SRF	Square Foot/ Feet
SRS	Seamless Resilient Floor Section
SST	Stainless Steel
ST	Stain
STL	Steel
STOR	Storage
SUSP	Suspended
SW	Switch
SYM	Symmetry/ Symmetrical
T	Tongue & Groove
T & G	Tongue & Groove
TB	Towel Bar
TBD	Tackboard
TEL	Telephone
TEMP	Temporary
TERR	Terrazzo
TFE	Top of Footing Elevation
TFG	Tempered Floating Glass
TOM	Top of Masonry
TOS	Top of Steel
TOW	Top of Wall
TPH	Toilet Paper Holder
TV	Television
TYP	Typical
U	Unit Heater
UH	Unfinished
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UV	Unit Ventilator
V	Vinyl Base
VCT	Vinyl Composition Tile
VDBD	Visual Display Board
VERT	Vertical
VEST	Vestibule
VPL	Veneer Plaster - Smooth Finish
VP-SF	Veneer Plaster - Sand Float Finish
VRB	Vented Rubber Base
VWC	Vinyl Wall Covering
WC	Water Closet
WD	Wood
WDPNL	Wood Panel
WF	Wash Fountain
WG	Wire Glass
WG	Weight
WH	Water Heater
WP	Waterproofing
WRGB	Water Resistant Gypsum Board
WWF	Welded Wire Fabric

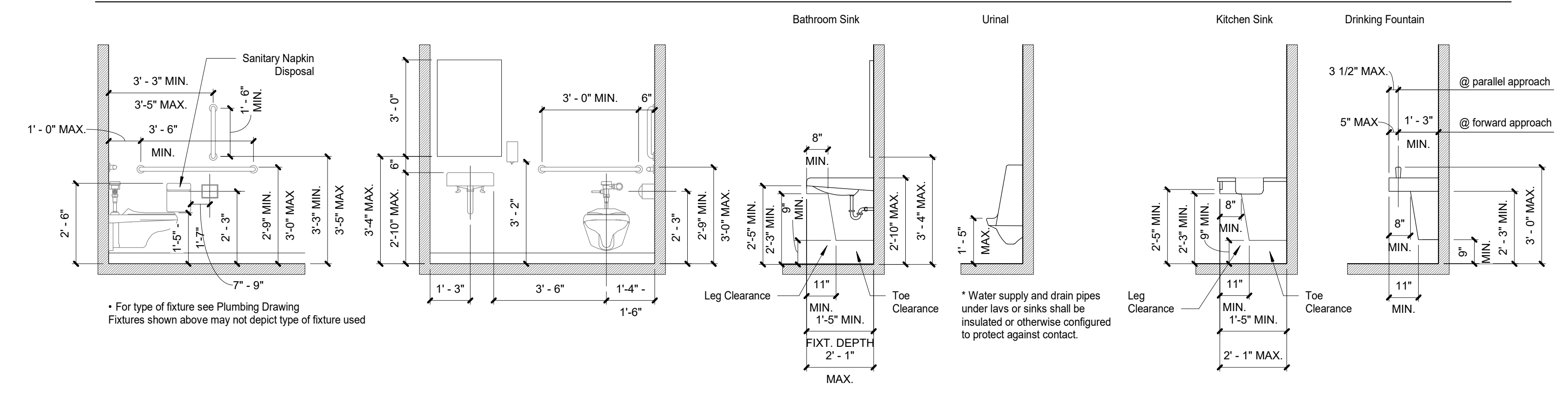
SYMBOLS LEGEND



CONSTRUCTION SIGNAGE DETAIL



PLUMBING FIXTURE AND ACCESSORY LOCATIONS



REVISIONS:

#	Date	Desc.

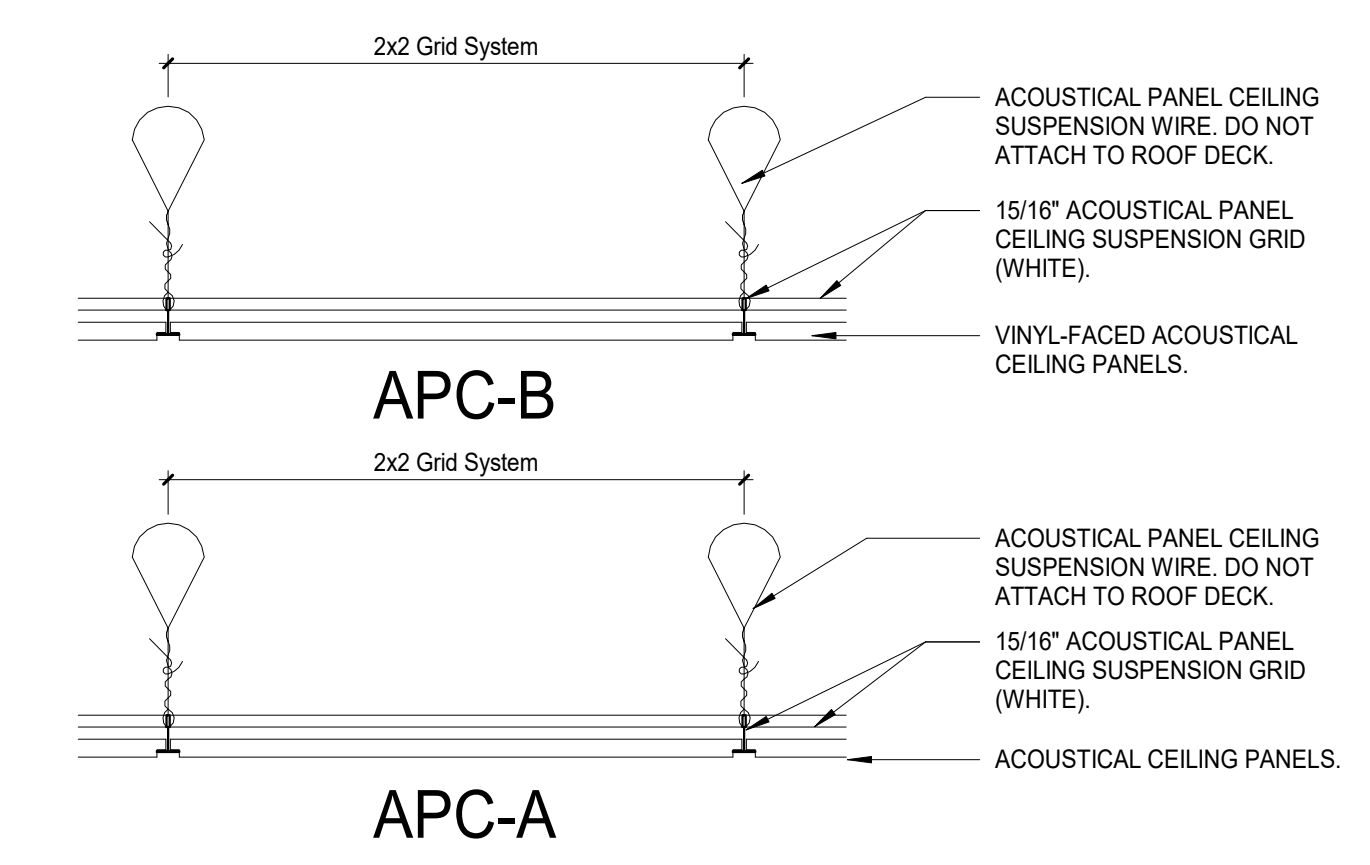
100% CONSTRUCTION DOCUMENT

PROJECT: #23122
DATE: 04/22/2024
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ARCHITECTURAL GENERAL NOTES

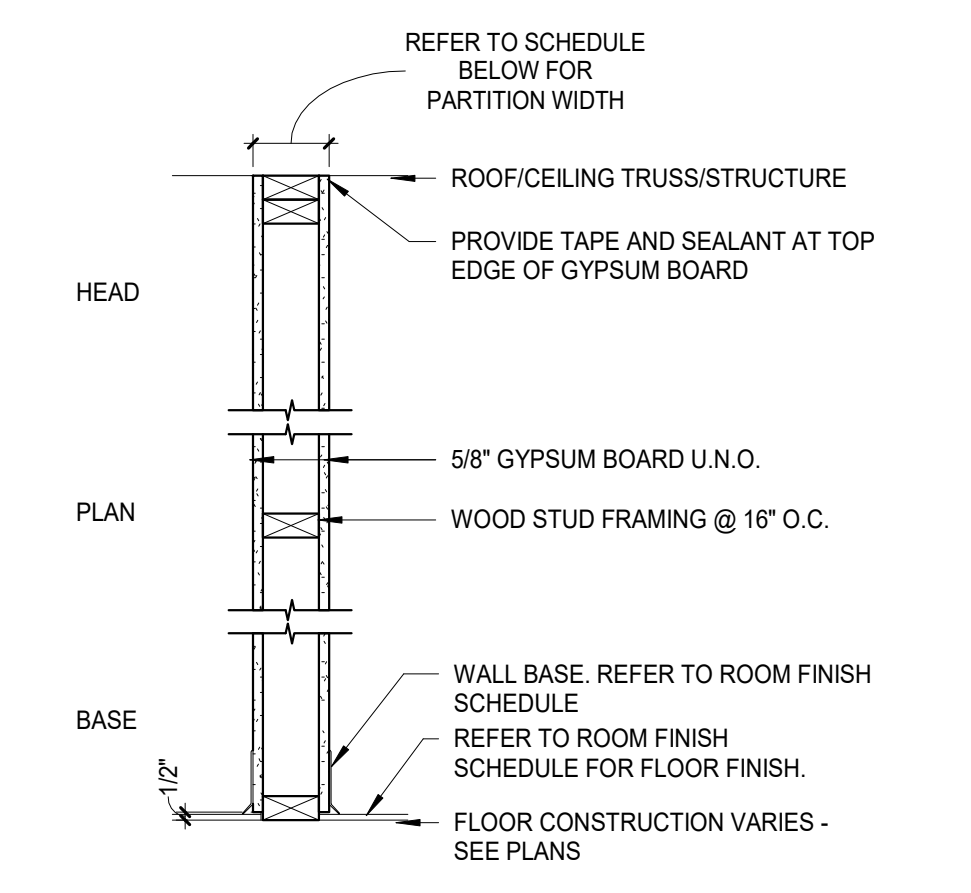
INTERIOR WALL NAMING CONVENTION

WALL CORE MATERIAL A - NON-STRUCTURAL METAL STUDS B - CONCRETE MASONRY UNITS D - SHAFT WALL (CH STUDS) F - FURRING WALL W - WOOD STUDS	A 4 .1 A	WALL CHARACTERISTIC MODIFIER (OPTIONAL) REF. SHEET A002 FOR ADDITIONAL INFORMATION WALL TYPE MODIFIER (OPTIONAL) 1 - ONE SIDED GYP. WALLBOARD 2 - WALL STOPS 6" MIN. ABOVE CEILING 3 - BOTH LINE ITEMS .1 AND .2 4 - DOUBLE LAYER OF GYP. BOTH SIDES 5 - "PONY" WALL, REF. PLANS FOR HEIGHT
--	-----------------	--



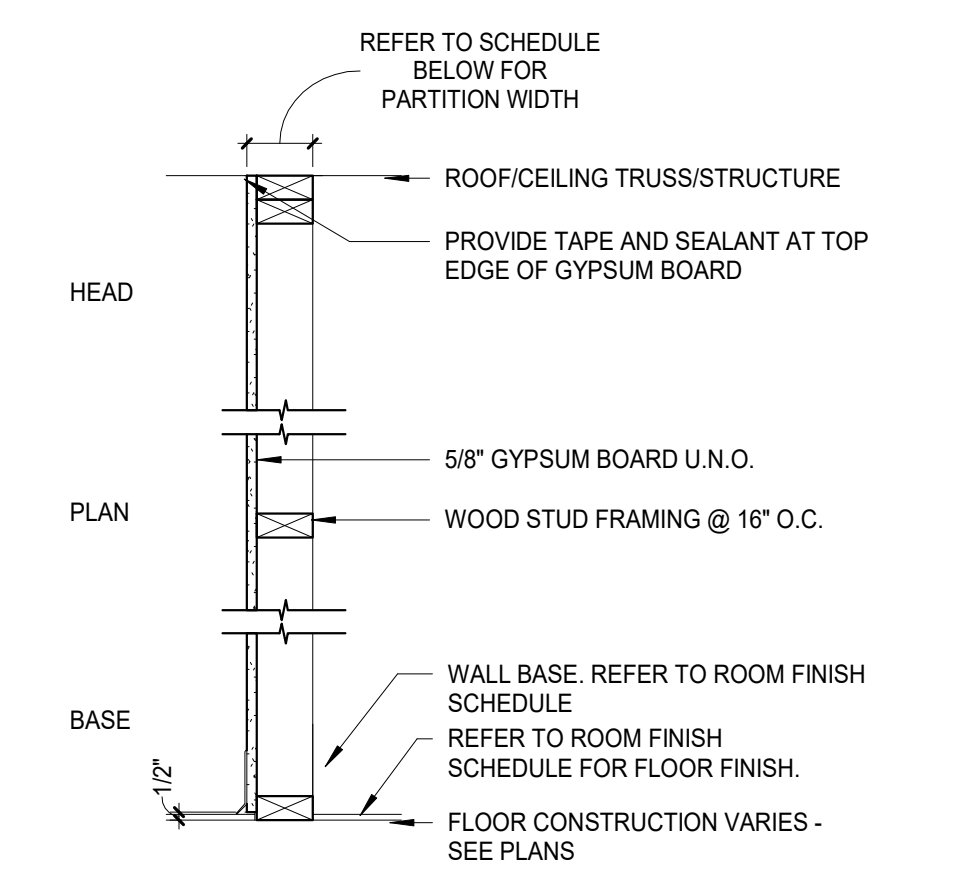
1 CEILING TYPES

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



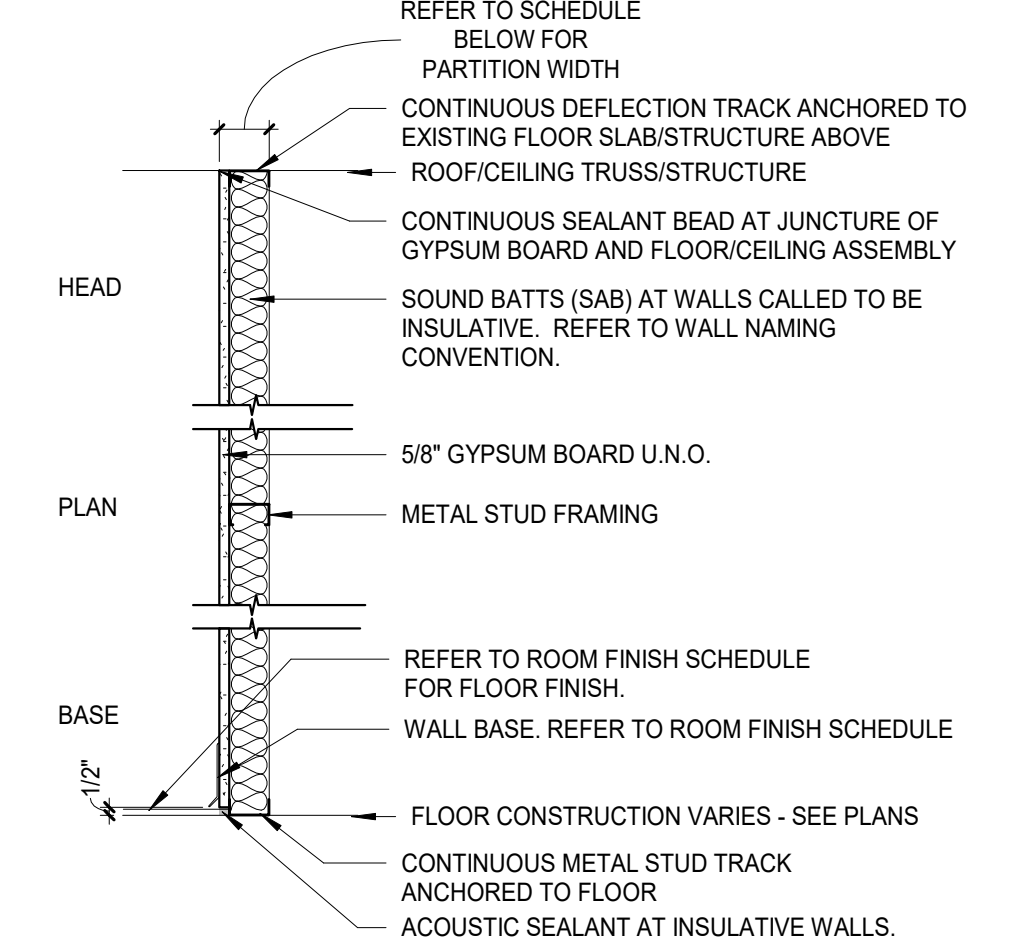
'Wx'

WALL PART	WIDTH	FIRE RATING	UL LISTING	STC	STC TEST
W4	4 3/4"	3 1/2"			



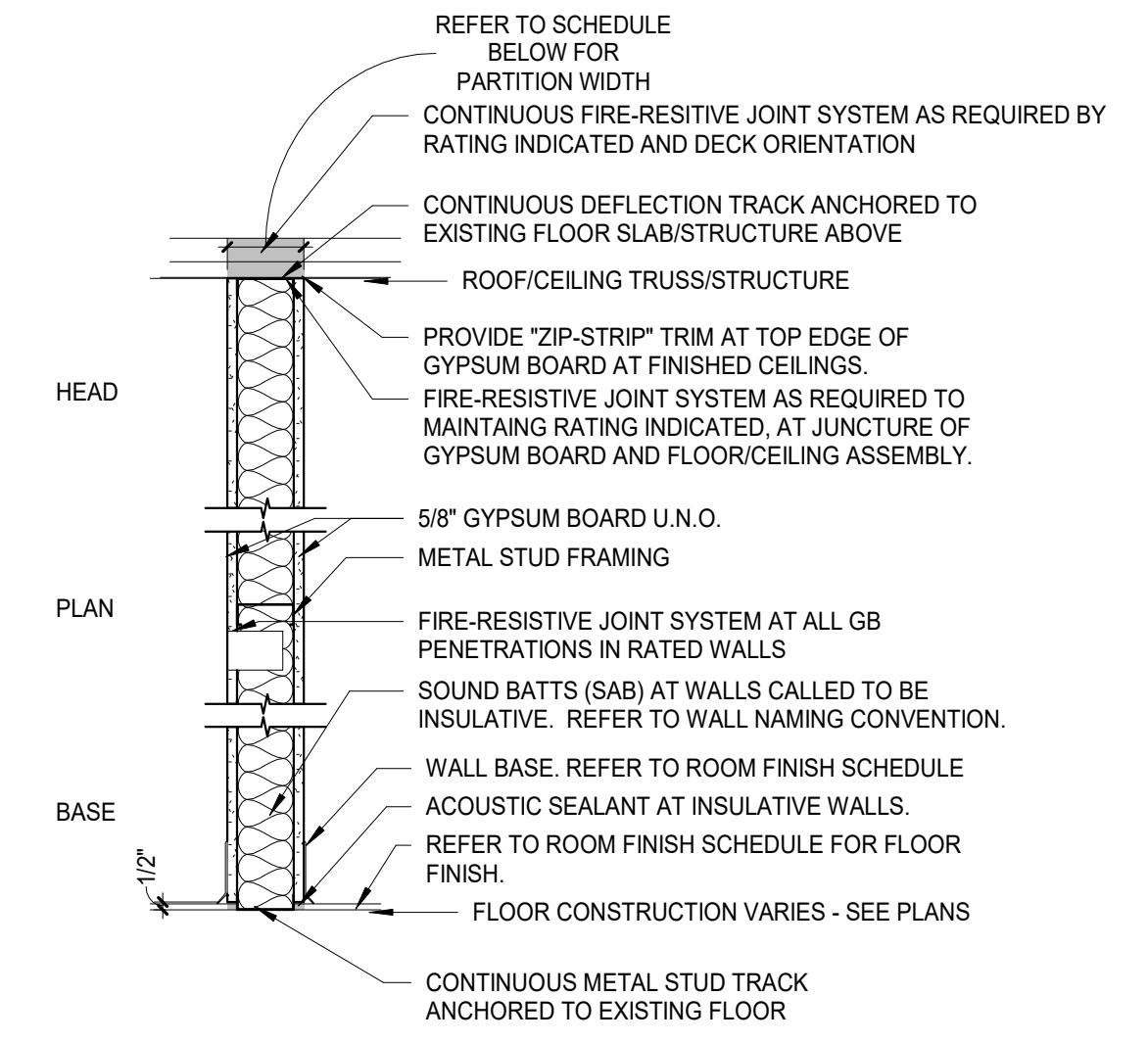
'Wx.1'

WALL PART	WIDTH	FIRE RATING	UL LISTING	STC	STC TEST
W4.1	4 1/8"	3 1/2"			



'Ax.1'

WALL PART	WIDTH	FIRE RATING	UL LISTING	STC	STC TEST
A4.1	4 1/4"	3 5/8"			



'Ax'

WALL PART	WIDTH	FIRE RATING	UL LISTING	STC	STC TEST
A4	4 7/8"	3 5/8"			
A6	7 1/4"	6"			



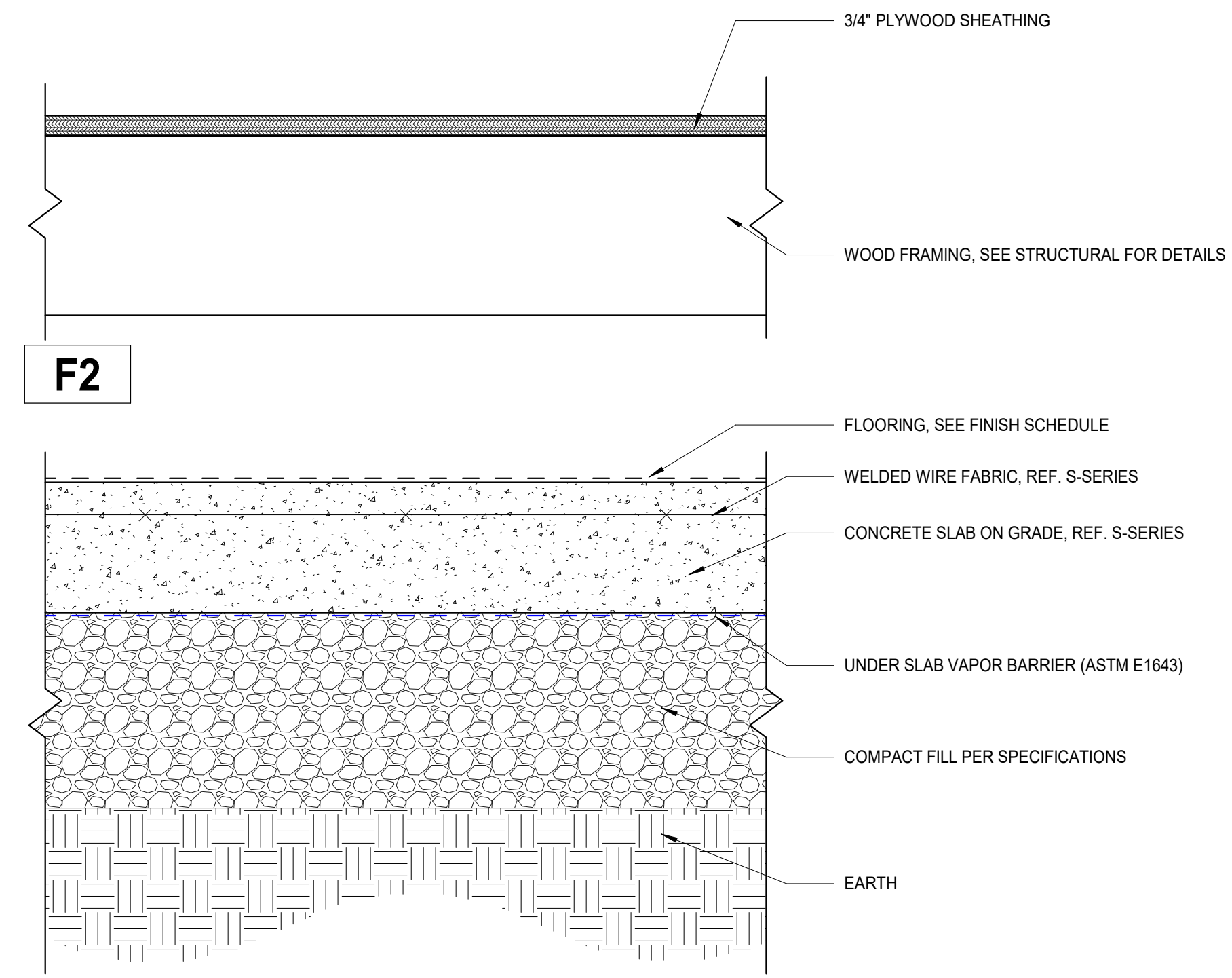
REVISIONS:

#	Date	Desc.

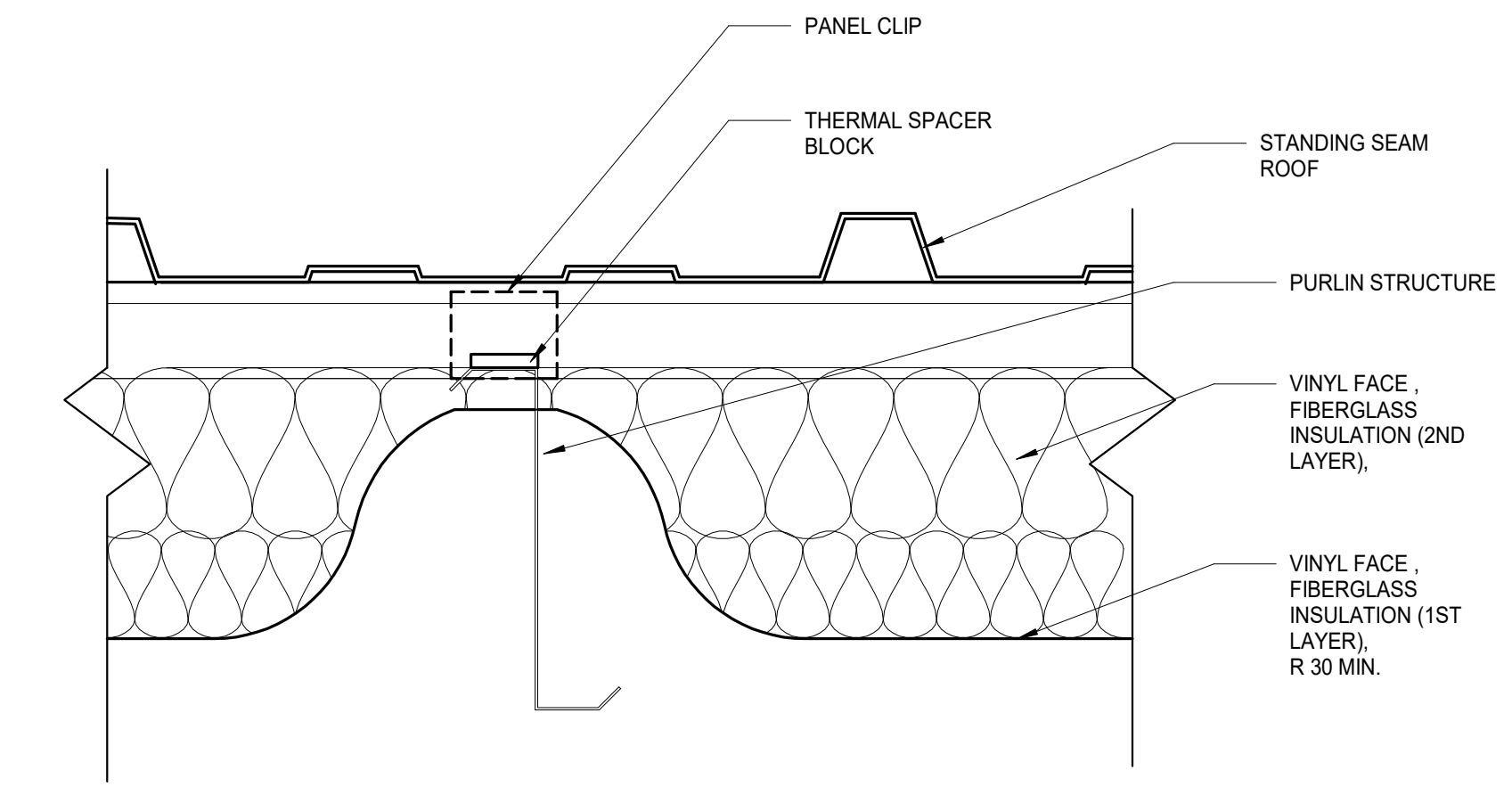
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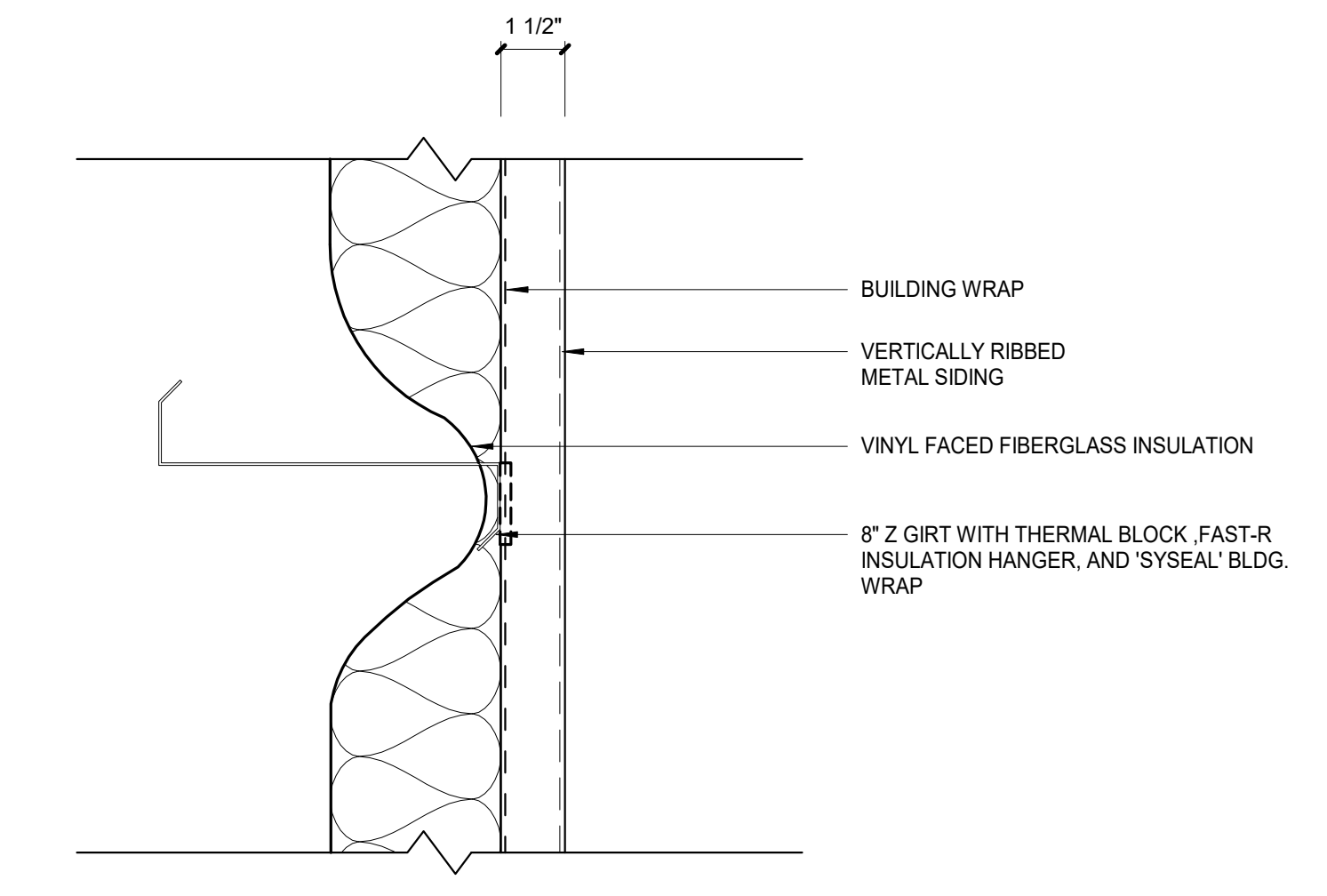
PLOT DATE/TIME: 4/22/2024 4:55:29 PM



3 FLOOR ASSEMBLIES
SCALE: 3" = 1'-0"



2 ROOF ASSEMBLIES
SCALE: 3" = 1'-0"



1 EXTERIOR WALL ASSEMBLIES
SCALE: 3" = 1'-0"



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EXTERIOR TYPES



REVISIONS:

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FLOOR PLAN - FIRST FLOOR

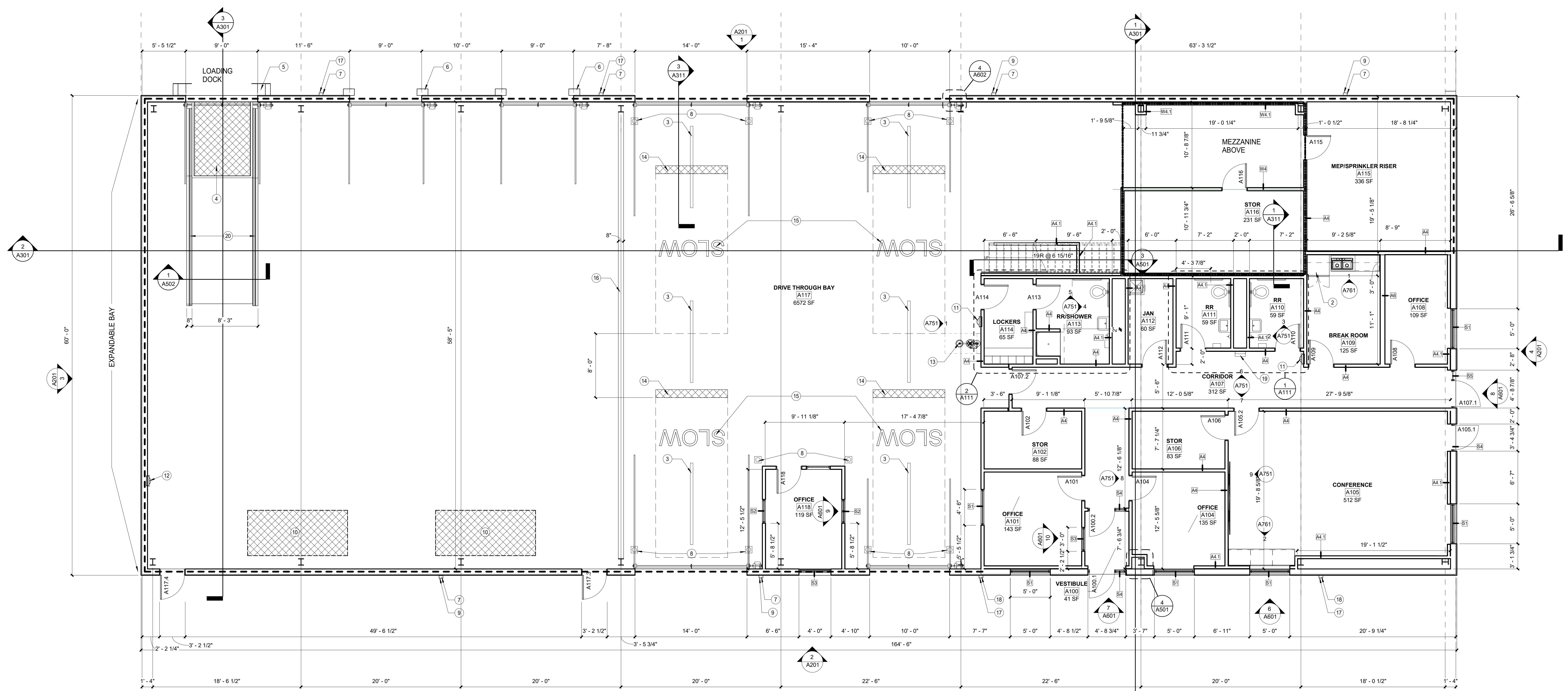
A101

GENERAL NOTES

1. PROVIDE SOLID SURFACE WINDOW SILLS @ ALL STOREFRONT GLAZING SILLS ABOVE FINISHED FLOOR HEIGHT. WINDOW SILL TO EXTEND 1" PAST FINISHED WALL SURFACE, TYP. UNLESS OTHERWISE NOTED
2. SEE A110 FOR ENLARGED PLANS
3. VIF ALL DIMENSIONS FOR WINDOWS AND CASEWORK
4. INTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF MASONRY OR STUDS
5. FOR ALL RESTROOM FACILITIES W/HT GYPSUM WALL FINISH REPLACE 5/8" TYPE "X" GYPSUM BOARD W/HT 5/8" MOISTURE RESISTANT GYPSUM BOARD. SEE SPECS FOR DETAILS
6. PROVIDE WINDOW SHADES AT ALL WINDOWS/STOREFRONTS (INTERIOR AND EXTERIOR). SHADES TO BE FULL PRIVACY SHADES.

----- PEMB WITH ONE (1) COURSE OF 8" CMU

- PLAN NOTES - FLOOR PLAN**
- 1 REMOVEABLE WOOD RAILING
 - 2 REFRIGERATORS, CONTRACTOR PROVIDED CONTRACTOR INSTALLED.
 - 3 TRENCH DRAIN
 - 4 HYDRAULIC DOCK LEVELER
 - 5 DOCK SHELTER
 - 6 DOCK SEAL
 - 7 6"x8" METAL DOWNSPOURT
 - 8 SURFACE MOUNTED BOLLARD
 - 9 CAST IRON BOOT
 - 10 BALER BY OWNER
 - 11 SEMI RECESSED FIRE EXTINGUISHER
 - 12 SURFACE MOUNTED FIRE EXTINGUISHER
 - 13 EMERGENCY SHOWER AND EYE WASH
 - 14 SURFACE MOUNTED SPEED BUMP
 - 15 PAINTED FLOOR GRAPHIC "SLOW" Z' LETTERS
 - 16 PAINTED FLOOR STRIPING
 - 17 CONCRETE SPLASH BLOCK
 - 18 6"x8" METAL DOWNSPOURT WITH A REMOVEABLE SECTION 6" FROM GROUND
 - 19 ADA BOTTLE FILLER
 - 20 ROUND METAL HANDRAIL (36") AND GUARD RAIL (42" MIN.) WITH VERTICAL BALUSTERS



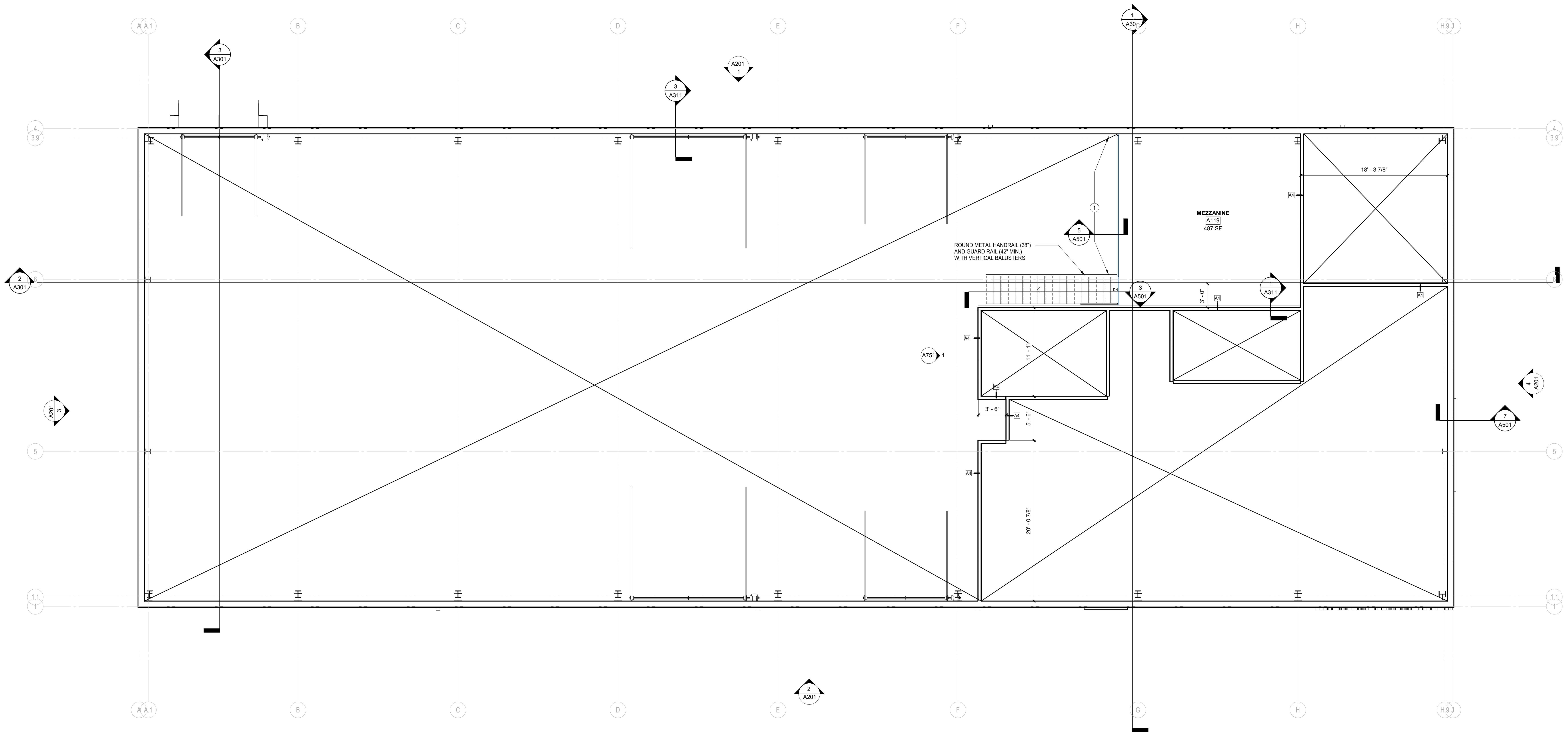
1 FLOOR PLAN - FIRST FLOOR
 SCALE: 3/16" = 1'-0" REF. 1 / A201

GENERAL NOTES

1. PROVIDE SOLID SURFACE WINDOW SILLS @ ALL STOREFRONT GLAZING SILLS ABOVE FINISHED FLOOR HEIGHT. WINDOW SILL TO EXTEND 1" PAST FINISHED WALL SURFACE. TYP. UNLESS OTHERWISE NOTED
 2. SEE A110 FOR ENLARGED PLANS
 3. VIF ALL DIMENSIONS FOR WINDOWS AND CASEWORK
 4. INTERIOR DIMENSIONS ARE TAKEN TO THE FACE OF MASONRY OR STUDS
 5. FOR ALL RESTROOM FACILITIES WITH GYPSUM WALL FINISH REPLACE 5/8" TYPE "X" GYPSUM BOARD WITH 5/8" MOISTURE RESISTANT GYPSUM BOARD. SEE SPECS FOR DETAILS
 6. PROVIDE WINDOW SHADES AT ALL WINDOWS/STOREFRONTS (INTERIOR AND EXTERIOR). SHADES TO BE FULL PRIVACY SHADES.
- PEMB WITH ONE (1) COURSE OF 8" CMU

PLAN NOTES - FLOOR PLAN

- 1 REMOVEABLE WOOD RAILING
- 2 REFRIGERATORS. CONTRACTOR PROVIDED CONTRACTOR INSTALLED.
- 3 TRENCH DRAIN
- 4 HYDRAULIC DOCK LEVELER
- 5 DOCK SHELTER
- 6 DOCK SEAL
- 7 6"X6" METAL DOWNSPOUT
- 8 SURFACE MOUNTED BOLLARD
- 9 CAST IRON BOOT
- 10 BALER BY OWNER
- 11 SEMI RECESSED FIRE EXTINGUISHER
- 12 SURFACE MOUNTED FIRE EXTINGUISHER
- 13 EMERGENCY SHOWER AND EYE WASH
- 14 SURFACE MOUNTED SPEED BUMP
- 15 PAINTED FLOOR GRAPHIC "SLOW" 2" LETTERS
- 16 PAINTED FLOOR STRIPING
- 17 CONCRETE SPLASH BLOCK
- 18 6"X6" METAL DOWNSPOUT WITH A REMOVEABLE SECTION 6" FROM GROUND
- 19 ADA BOTTLE FILLER
- 20 ROUND METAL HANDRAIL (38") AND GUARD RAIL (42" MIN.) WITH VERTICAL BALUSTERS



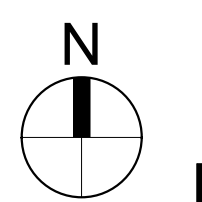
1 FLOOR PLAN - MEZZANINE
SCALE: 3/16" = 1'-0" REF. 1 / A201



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FLOOR PLAN - MEZZANINE

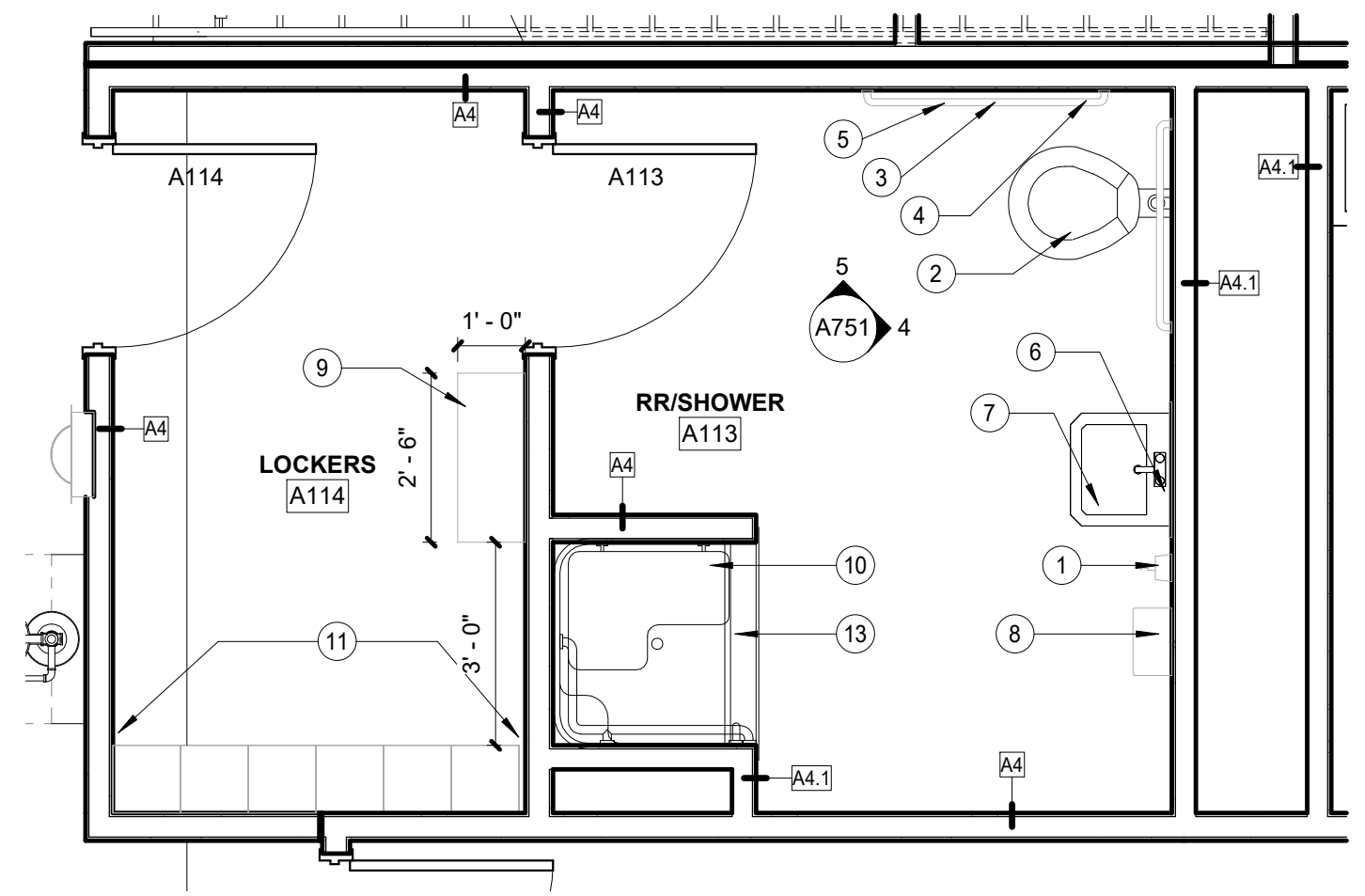


GENERAL NOTES

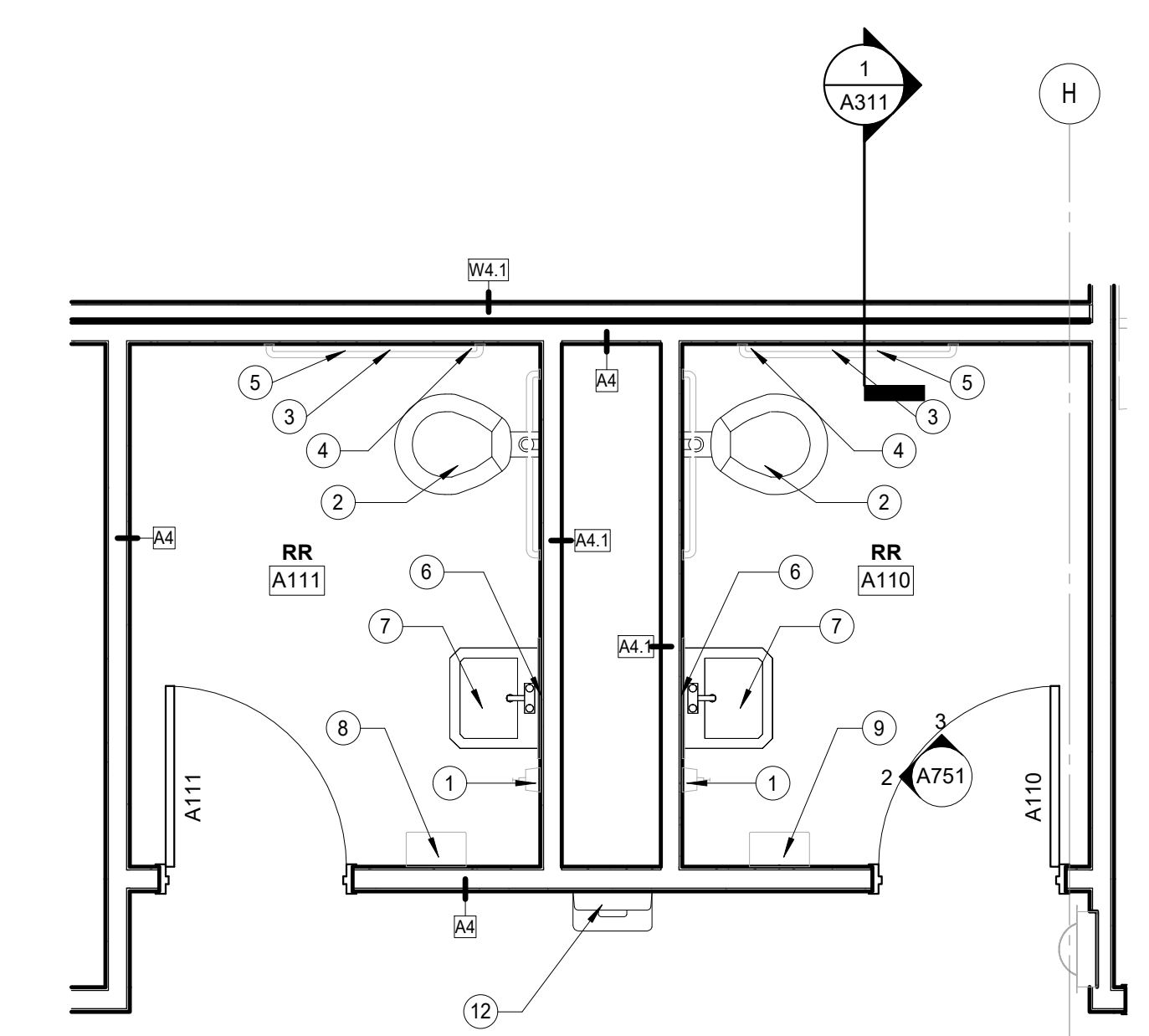
1. PROVIDE HOOKS ON ALL PARTITION DOORS
2. PROVIDE HOOKS ON ALL DOORS INTO SINGLE OCCUPANCY RESTROOMS
3. MOUNT HOOKS AT 48" AFF MAX IN ALL ACCESSIBLE RESTROOMS

PLAN NOTES - ENLARGED FLOOR...

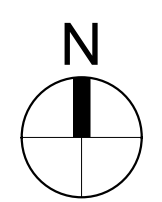
- 1 SOAP DISPENSER. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 2 TOILET PAPER DISPENSE. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 3 TOILET PAPER DISPENSE. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 4 ADA GRAB BARS. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 5 LINED SANITARY WIPING DISPOSAL. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 6 24" X 36" MIRROR. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 7 LAVATORY SINK. SEE P-SERIES
- 8 ELECTRIC HAND DRYER. CONTRACTOR PROVIDE CONTRACTOR INSTALL
- 9 FLOOR MOUNTED WOOD BENCH. 30" X 12"
- 10 ADA SHOWER - ACRYLIC
- 11 METAL LOCKER DOUBLE TIER, SLOPED TOP
- 12 ADA BOTTLE FILLER
- 13 SHOWER ROD AND CURTAIN



2 ENLARGED PLAN - SHOWER/LOCKER ROOM
SCALE: 3/8" = 1'-0" REF. 1 / A101



1 ENLARGED PLAN - RESTROOM
SCALE: 3/8" = 1'-0" REF. 1 / A101



A111



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PROJECT: #23122
DATE: 04/22/2024
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ENLARGED PLANS

GENERAL NOTES

1. ALL INTERIOR CEILINGS AT 9'-0" UNLESS OTHERWISE NOTED.
2. ALL WALLS TO GO 8" ABOVE THE CEILING UNLESS CALL OUT DIFFERENTLY

PLAN NOTES - RCP

RCP PLANLEGEND

--- WALL GO UP TO DECK



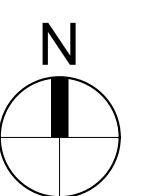
REVISIONS:

#	Date	Desc.

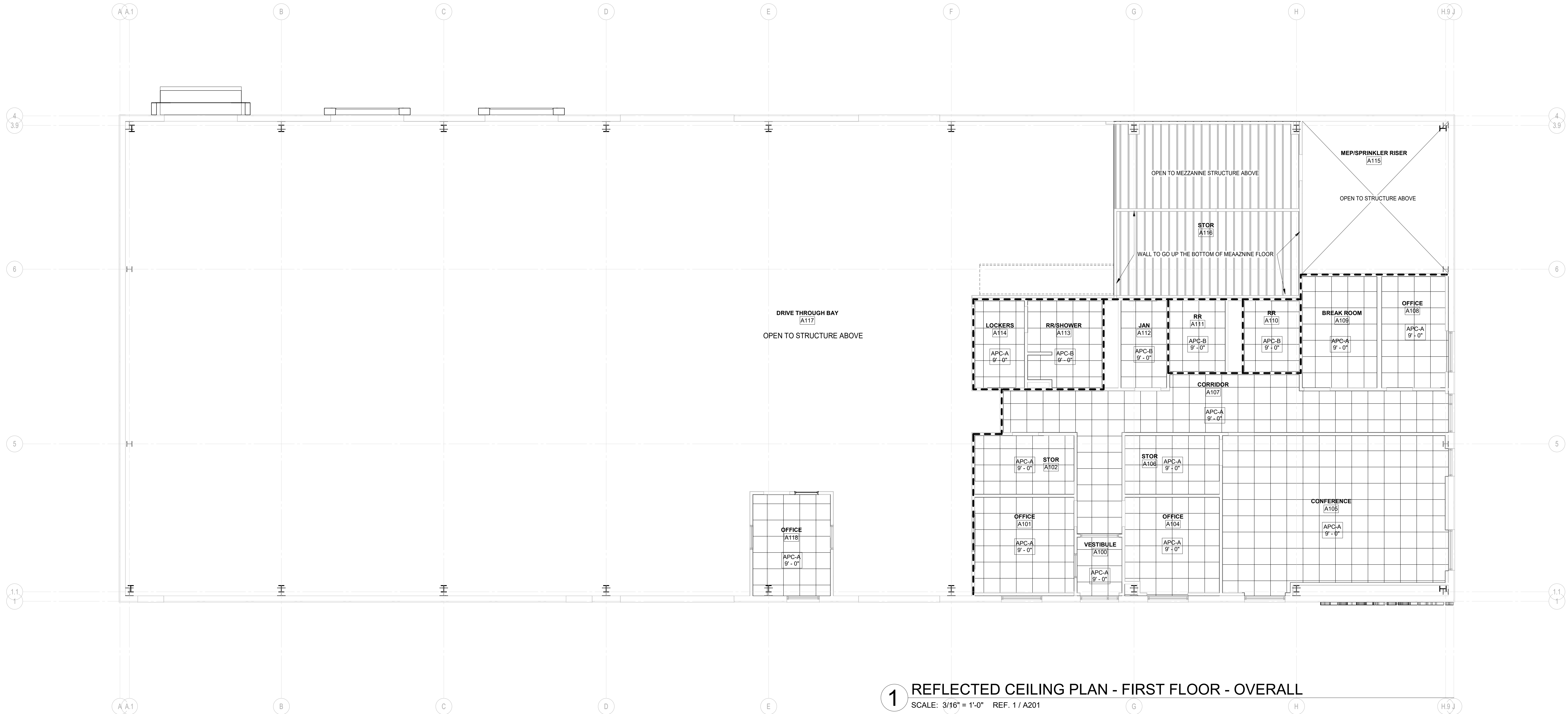
100% CONSTRUCTION DOCUMENT

PROJECT: #23122
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REFLECTED CEILING PLAN



A121



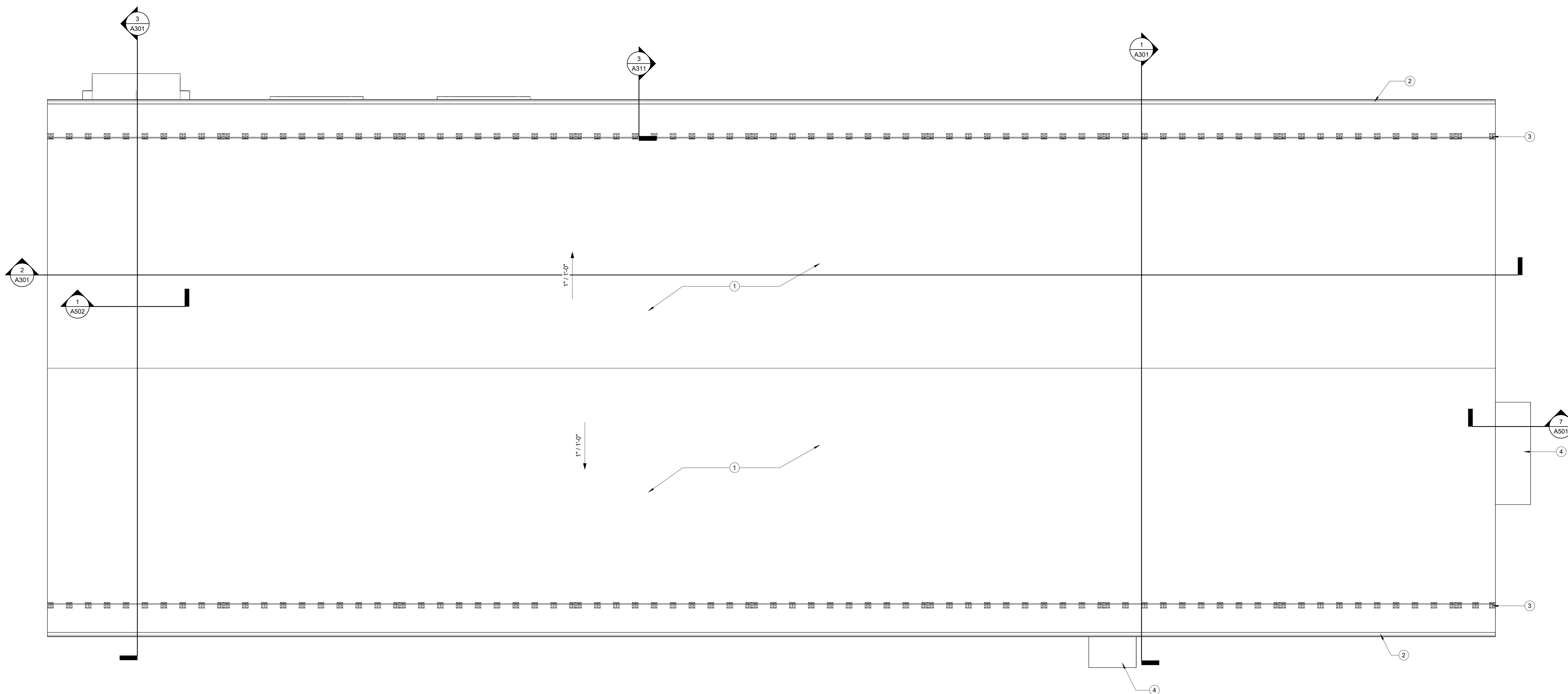
1 REFLECTED CEILING PLAN - FIRST FLOOR - OVERALL
SCALE: 3/16" = 1'-0" REF. 1 / A201

GENERAL NOTES

1. PROVIDE SPLASH BLOCKS WHERE DOWNSPOUTS OR EXTENDERS COME INTO ROOF SURFACE

PLAN NOTES - ROOF PLAN

- 1 STANDING SEAM METAL ROOF BY PEMB MANUFACTURER. COLOR TBD
- 2 5" D X 6" W GUTTER
- 3 SNOW GUARD
- 4 CANOPY BY PEMB MANUFACTURER



1 ROOF PLAN - OVERALL
SCALE: 3/16" = 1'-0" REF. 1 / A201



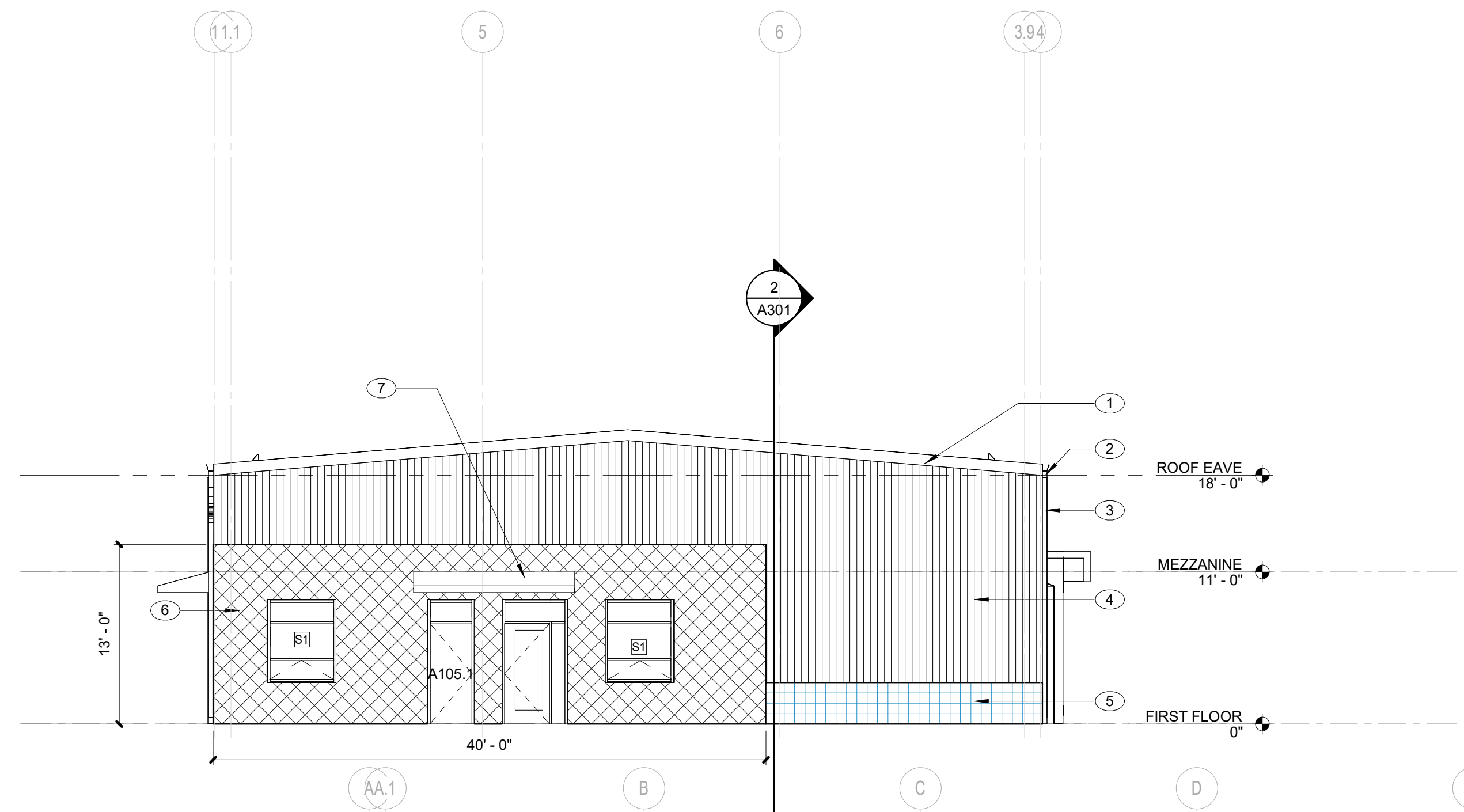
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DATE: 04/22/2024
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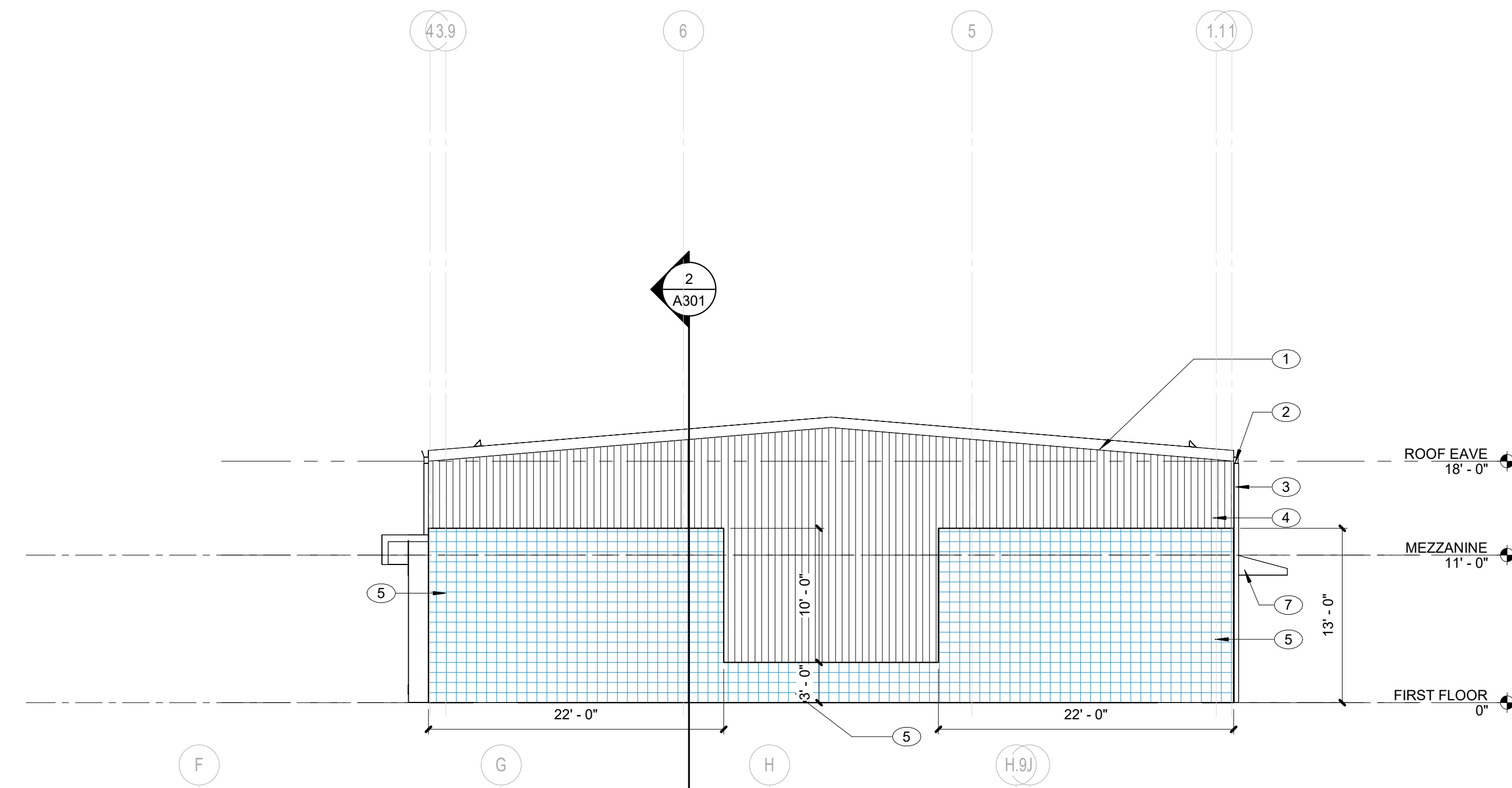
ROOF PLAN

ELEVATION NOTES - EXTERIOR

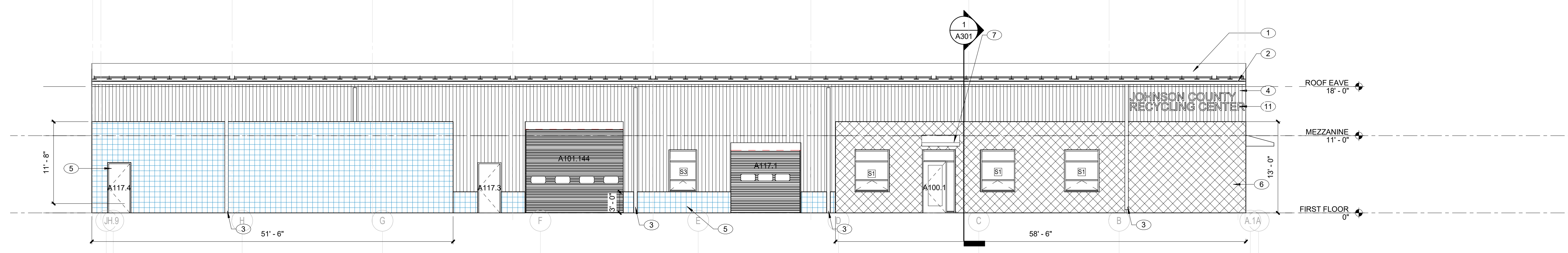
- 1 STANDING SEAM METAL ROOF, COLOR D
- 2 8" X 8" W METAL GUTTER
- 3 METAL DOWNSPOUT 6" X 6"
- 4 STANDING SEAM METAL WAL PANEL, COLOR A
- 5 STANDING SEAM METAL WAL PANEL, COLOR B
- 6 STANDING SEAM METAL WAL PANEL, COLOR C
- 7 CANOPY BY PEMB
- 8 DOCK LEVELER
- 9 DOCK SHELTER
- 10 DOCK SEAL
- 11 14" METAL LETTER SIGNAGE, CONFIRM WITH OWNER ON FINAL TEXT



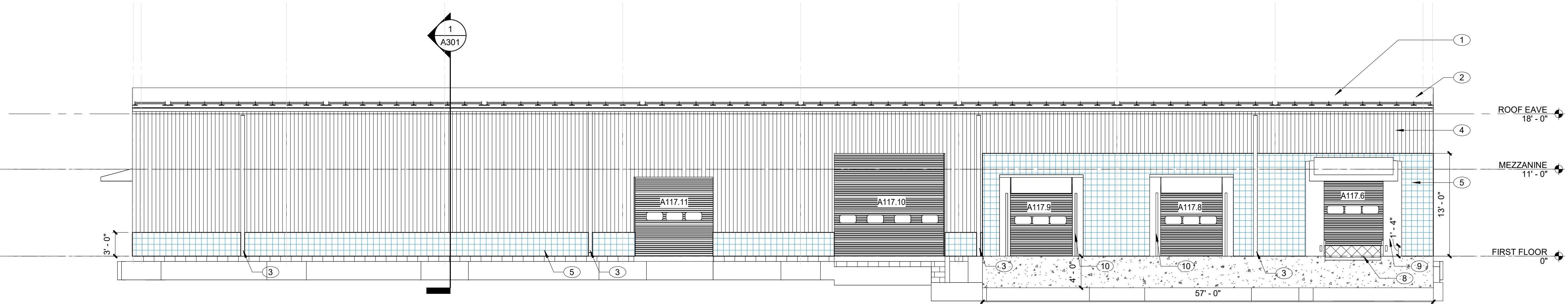
4 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0" REF. 1 / A101



3 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0" REF. 1 / A101



2 EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0" REF. 1 / A101



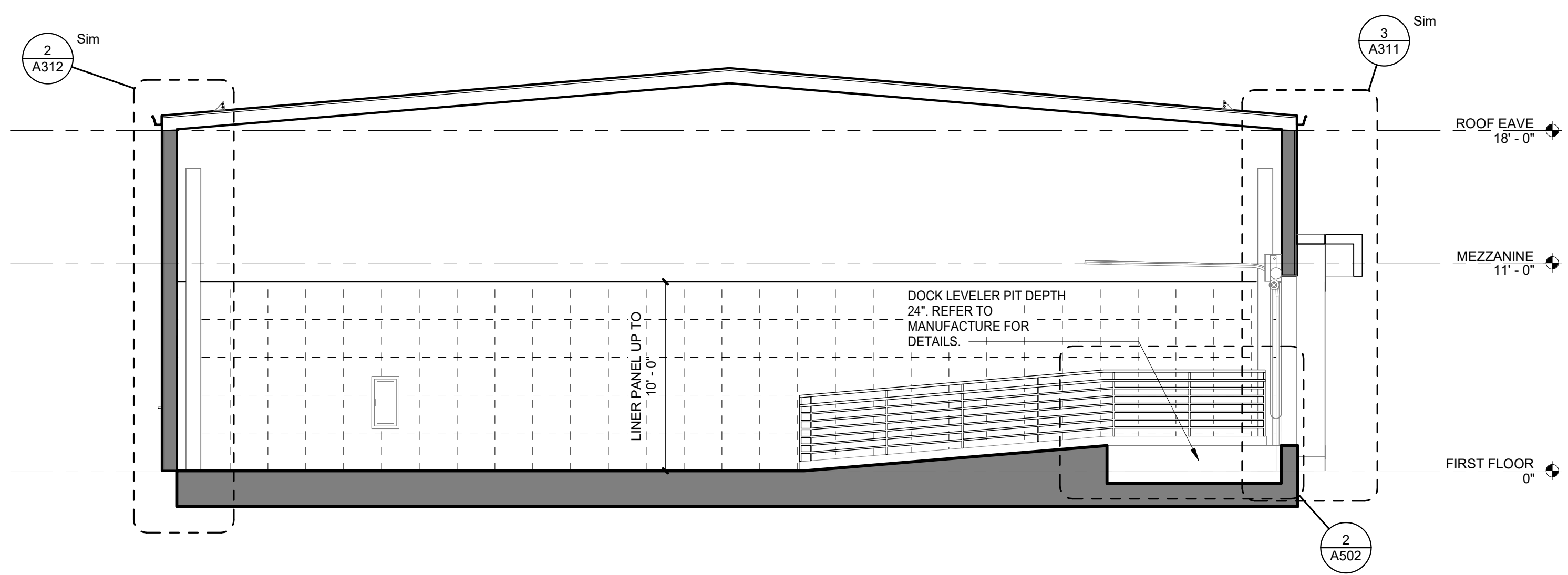
1 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0" REF. 1 / A101



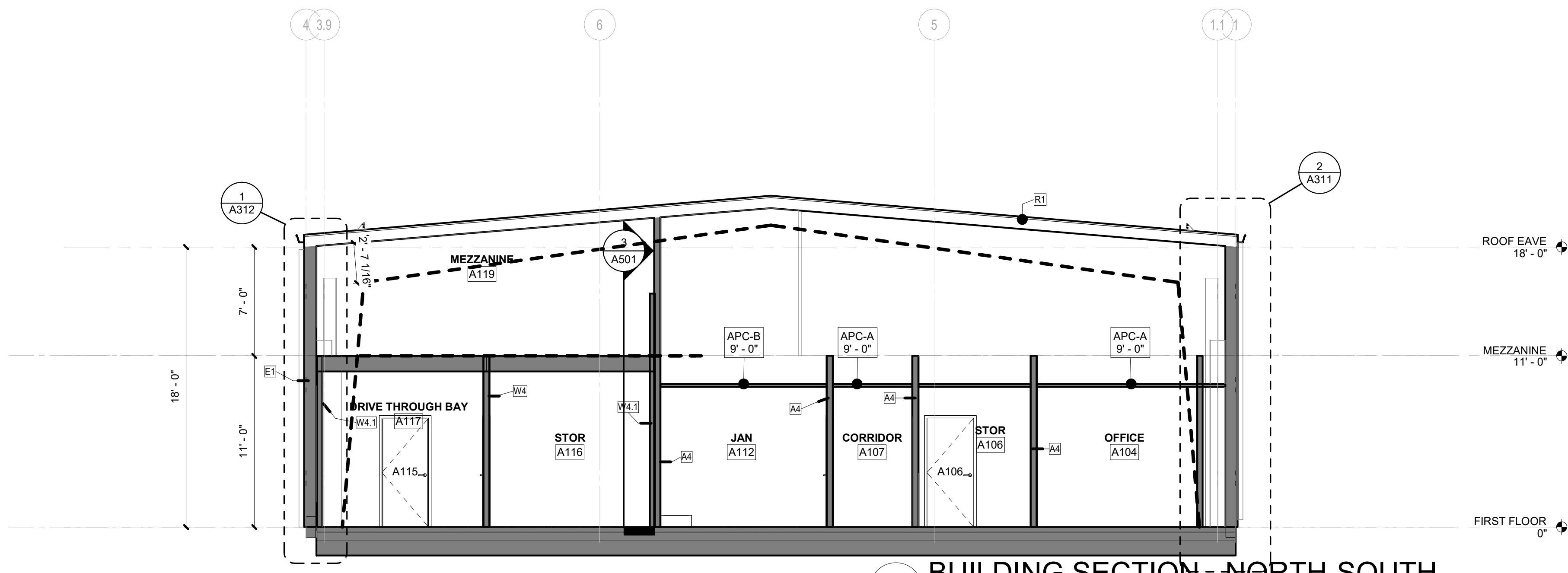
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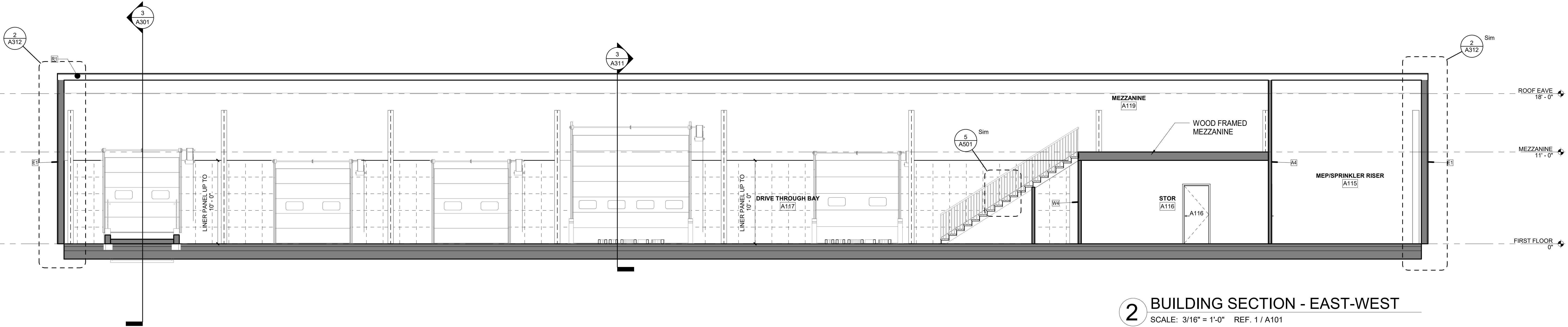
EXTERIOR ELEVATIONS



3 BUILDING SECTION - LOADING DOCK
 SCALE: 3/16" = 1'-0" REF. 1 / A101



1 BUILDING SECTION - NORTH-SOUTH
 SCALE: 3/16" = 1'-0" REF. 1 / A101



2 BUILDING SECTION - EAST-WEST
 SCALE: 3/16" = 1'-0" REF. 1 / A101

**JOHNSON COUNTY
 RECYCLING CENTER
 0 N. GRAHAM ROAD, FRANKLIN, IN 46131**

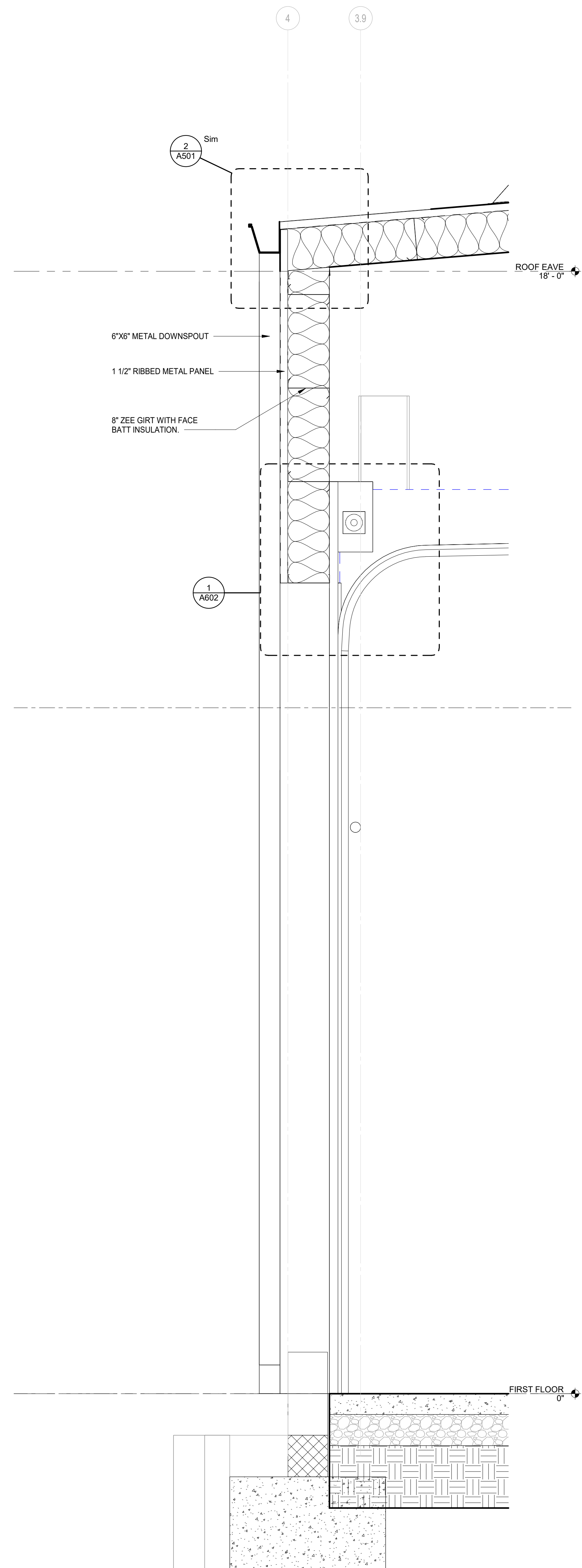


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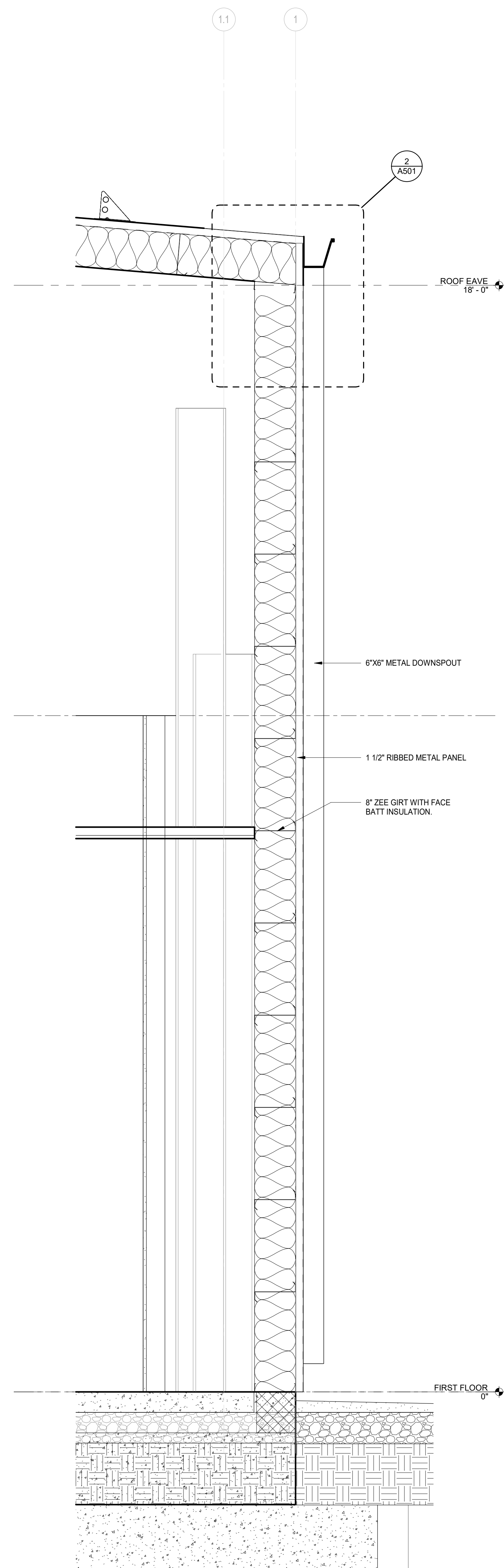
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BUILDING SECTIONS

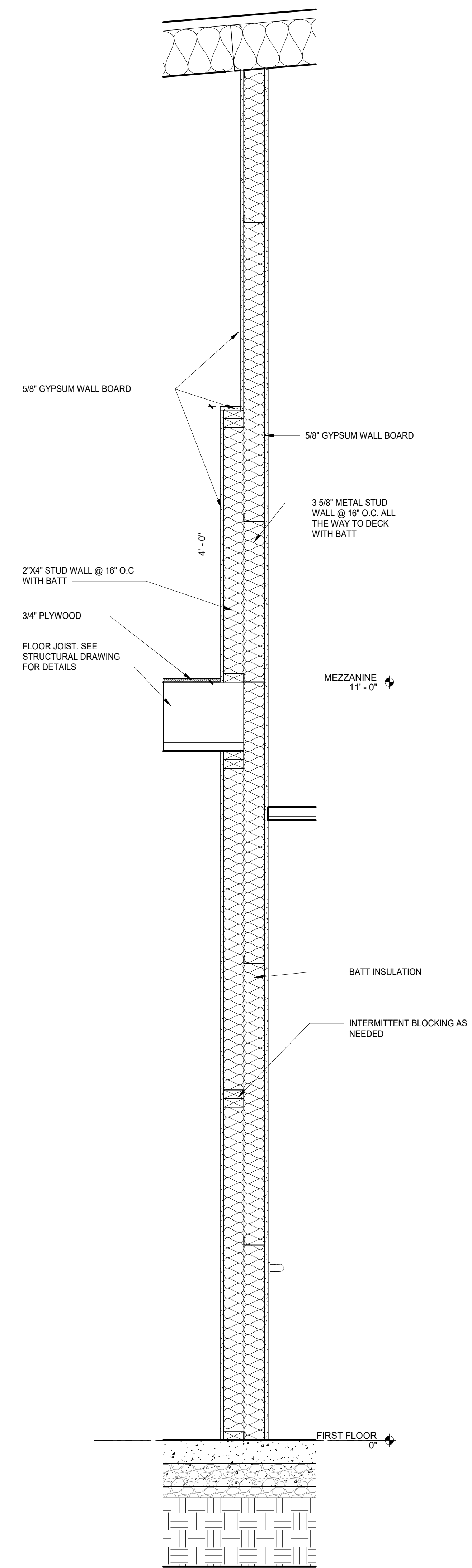
A301



3 WALL SECTION - OVERHEAD DOOR
SCALE: 1" = 1'-0" REF. 1 / A101



2 WALL SECTION - METAL STUD @ PEMB
SCALE: 1" = 1'-0" REF. 1 / A301



1 WALL SECTION - METAL AND WOOD STUD WALL
SCALE: 1" = 1'-0" REF. 1 / A101



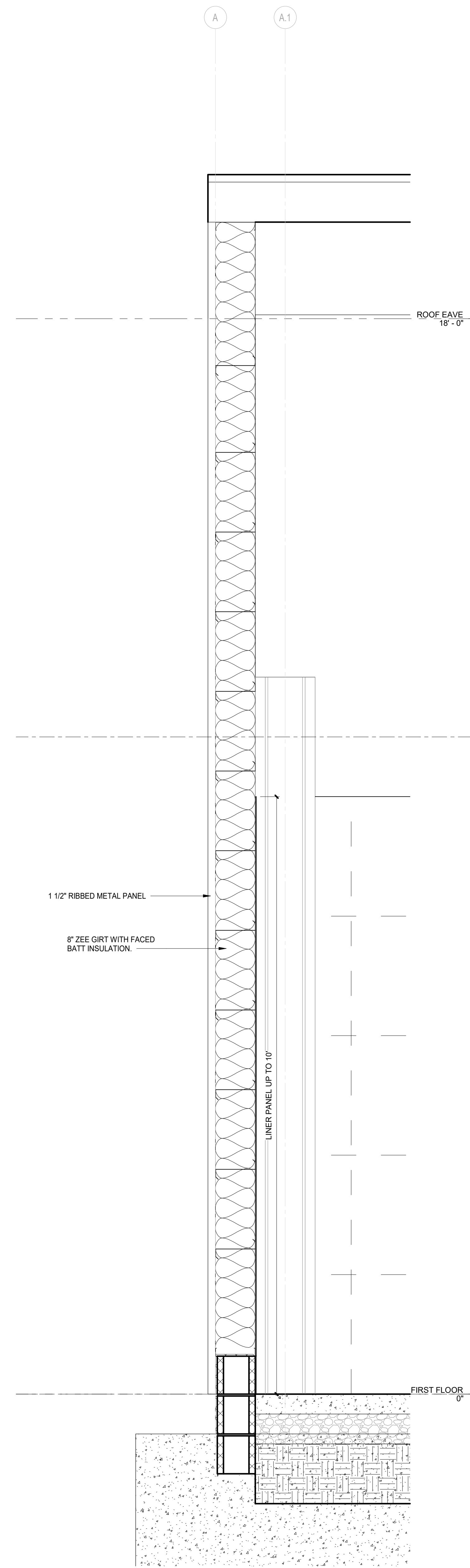
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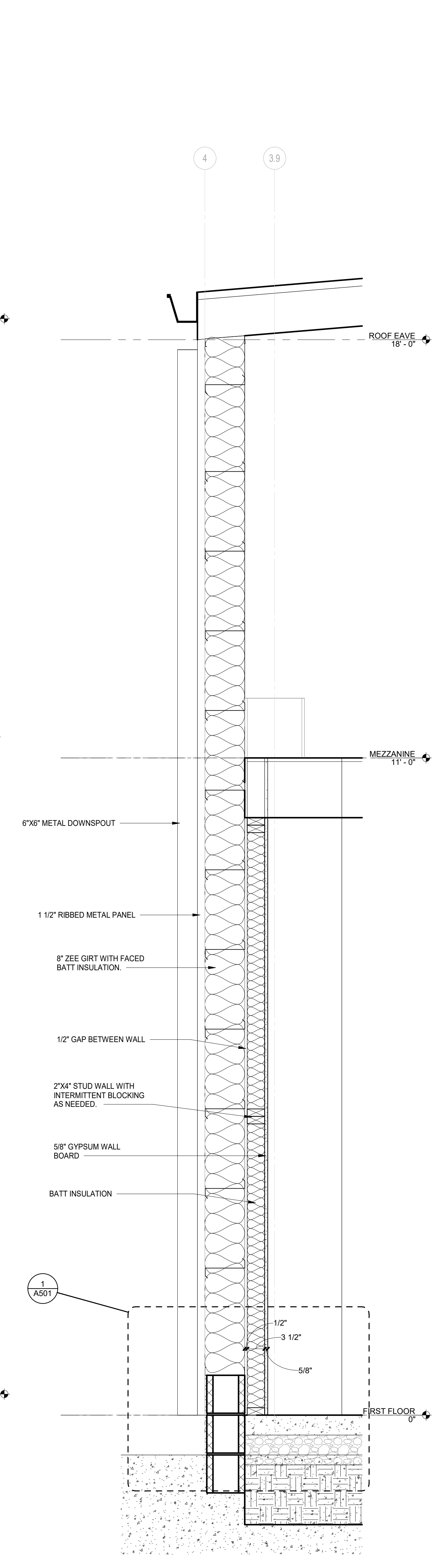
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WALL SECTIONS

A311



2 WALL SECTION - PEMB
 SCALE: 1" = 1'-0" REF. 2 / A301



1 WALL SECTION - WOOD STUD @ EXTERIOR
 SCALE: 1" = 1'-0" REF. 1 / A301



#	Date	Desc.

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WALL SECTIONS

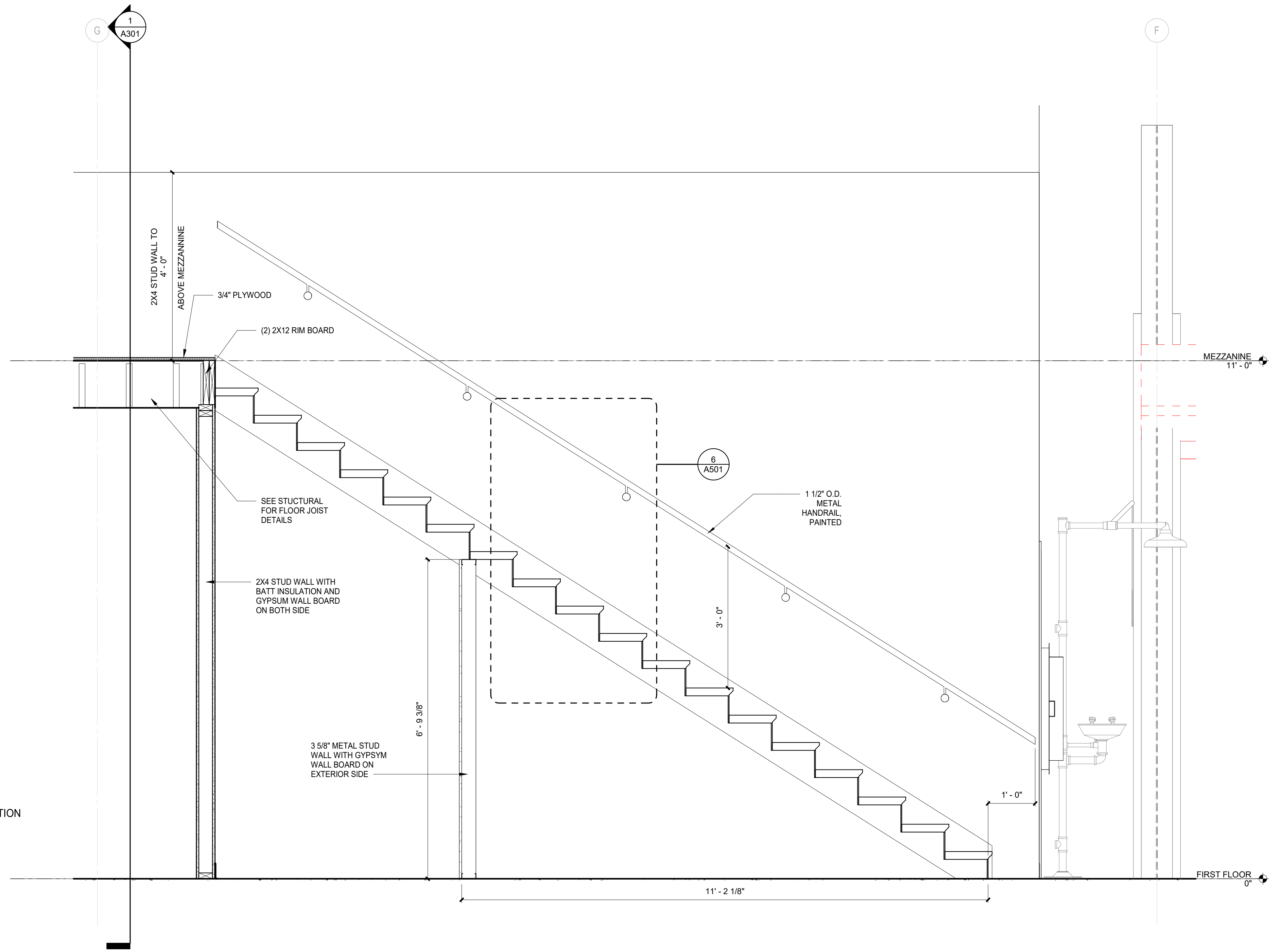


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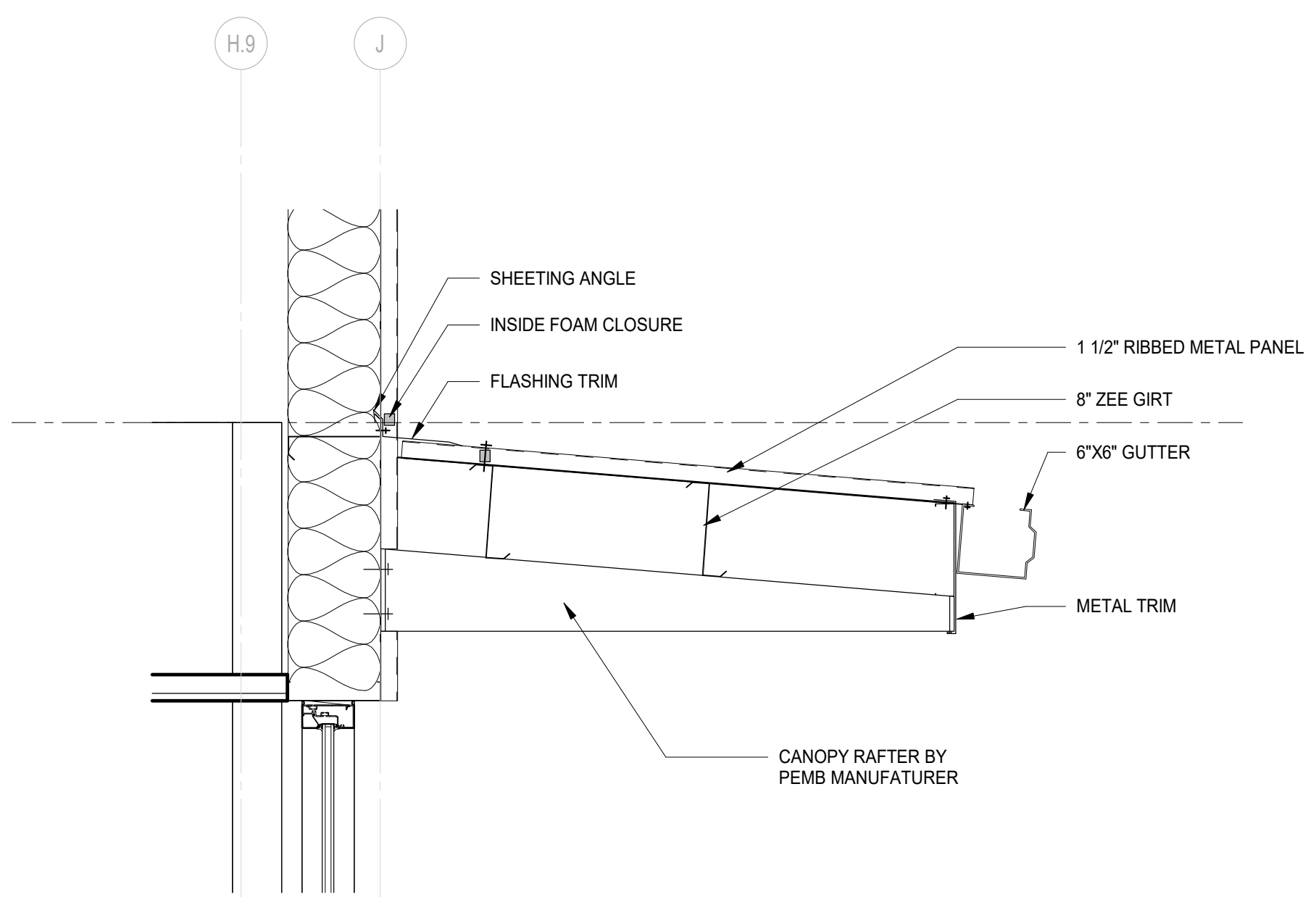
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DETAILS

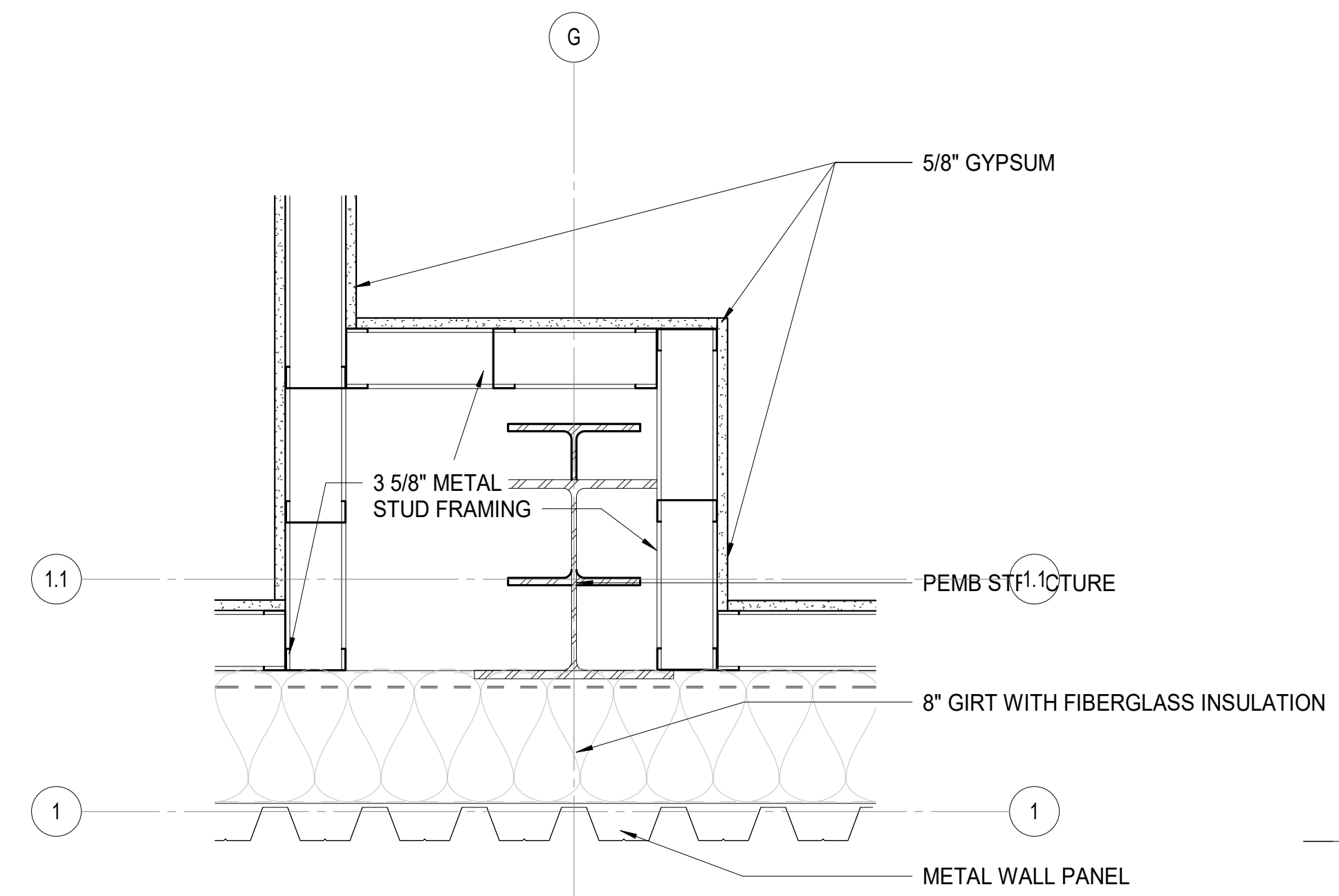
A501



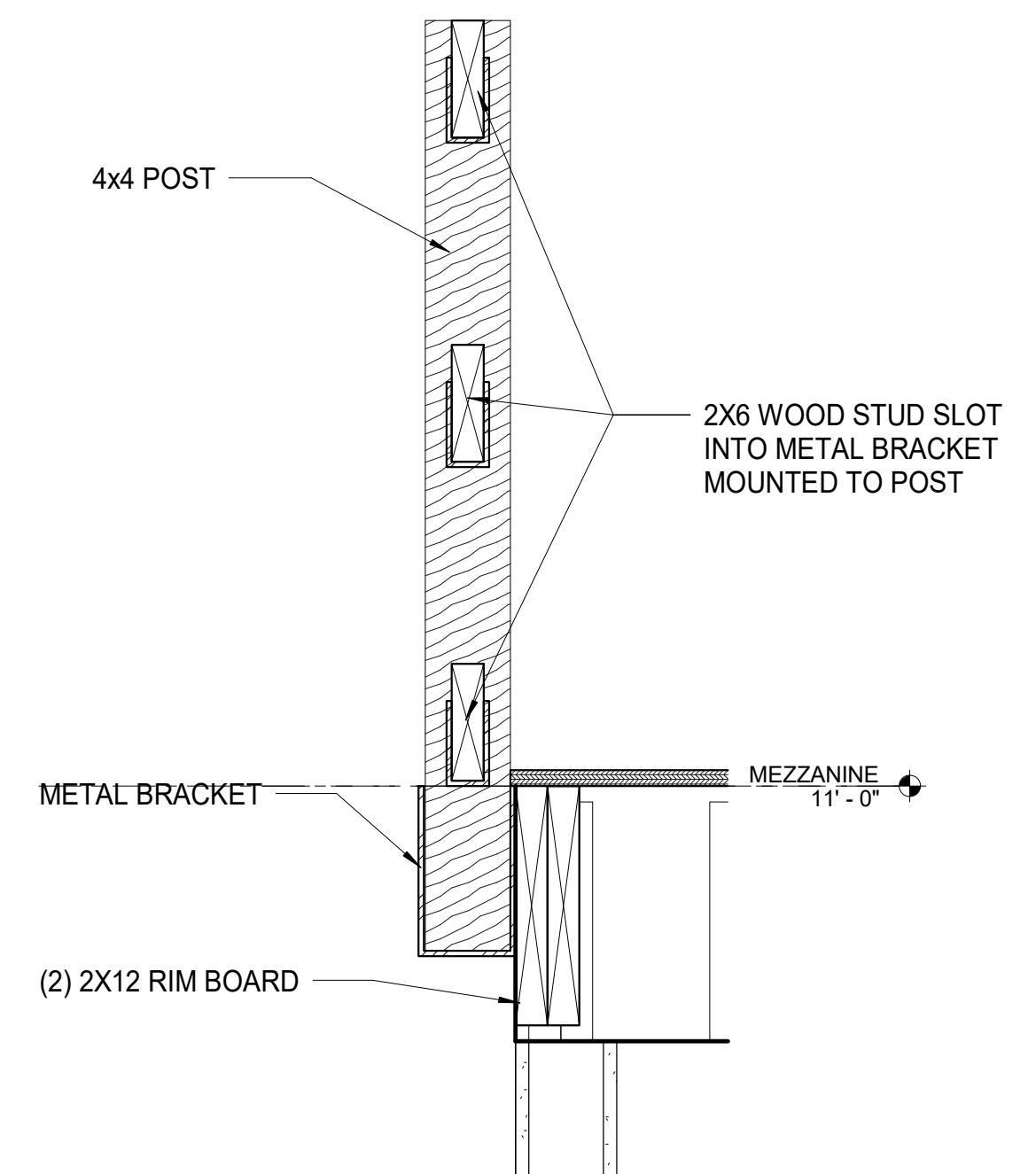
3 SECTION - MEZZANINE STAIR
 SCALE: 3/4" = 1'-0" REF. 1 / A101



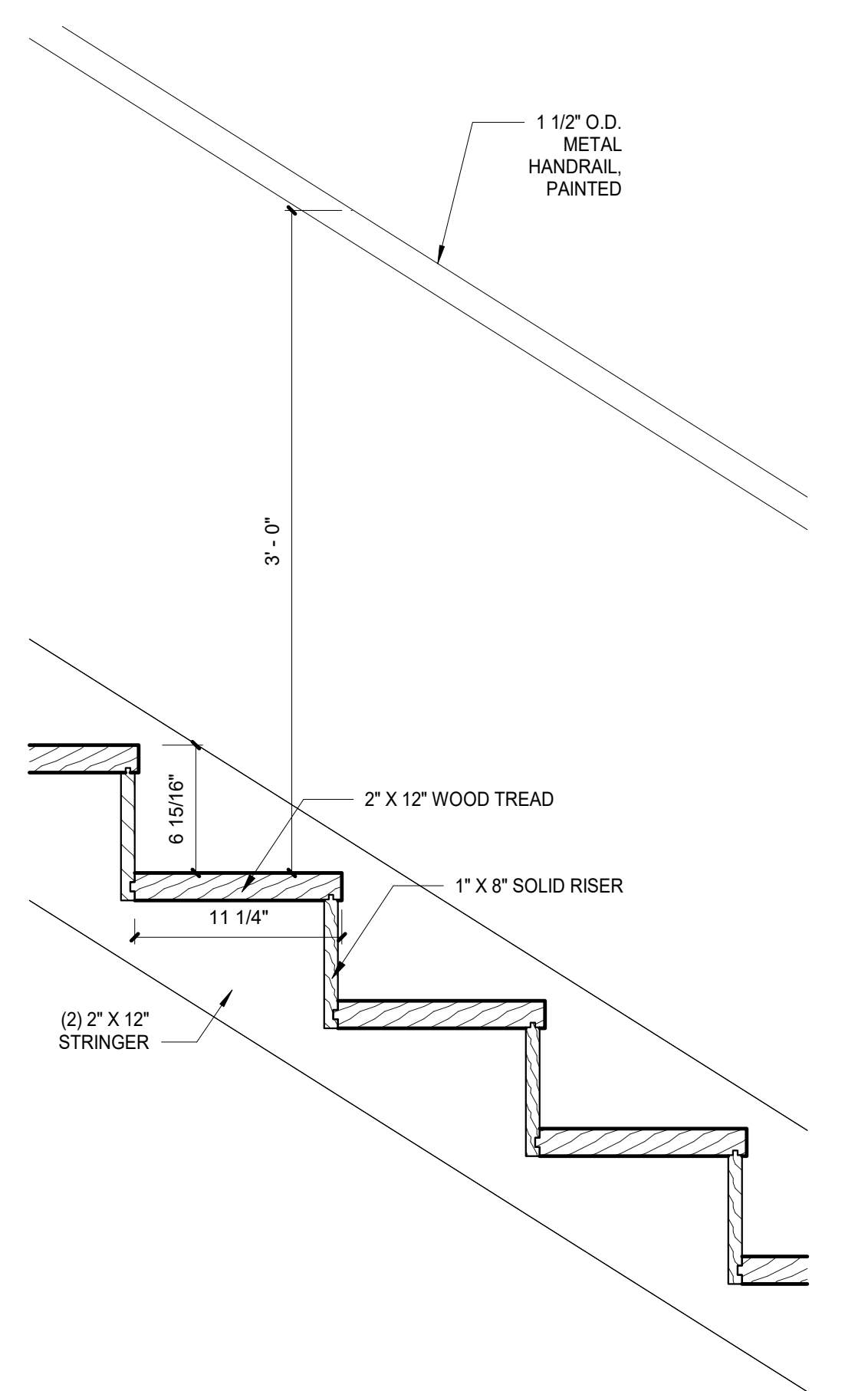
7 CANOPY DETAIL
 SCALE: 1" = 1'-0" REF. 1 / A102



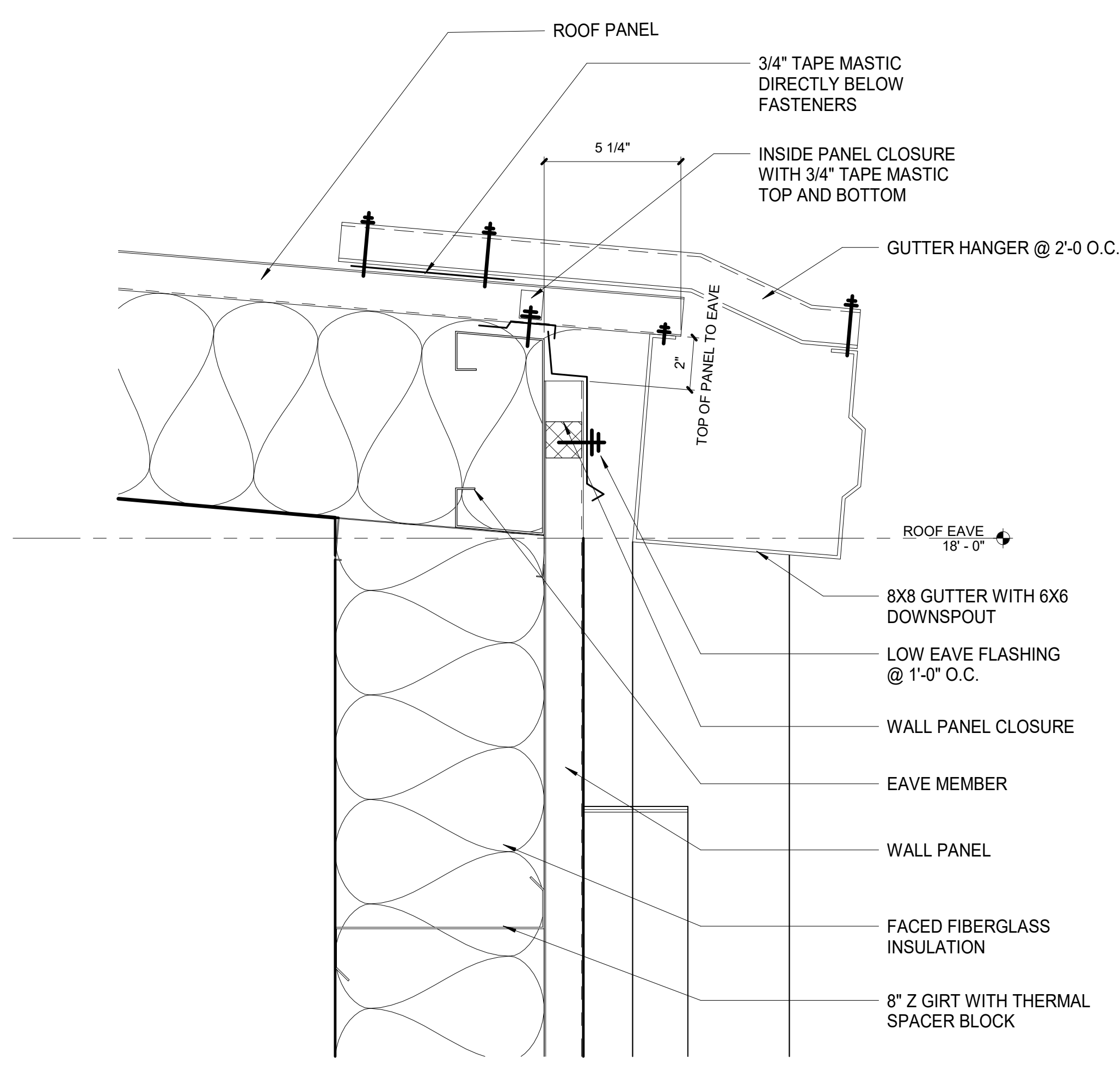
4 COLUMN ENCLOSURE DETAIL
 SCALE: 1 1/2" = 1'-0" REF. 1 / A101



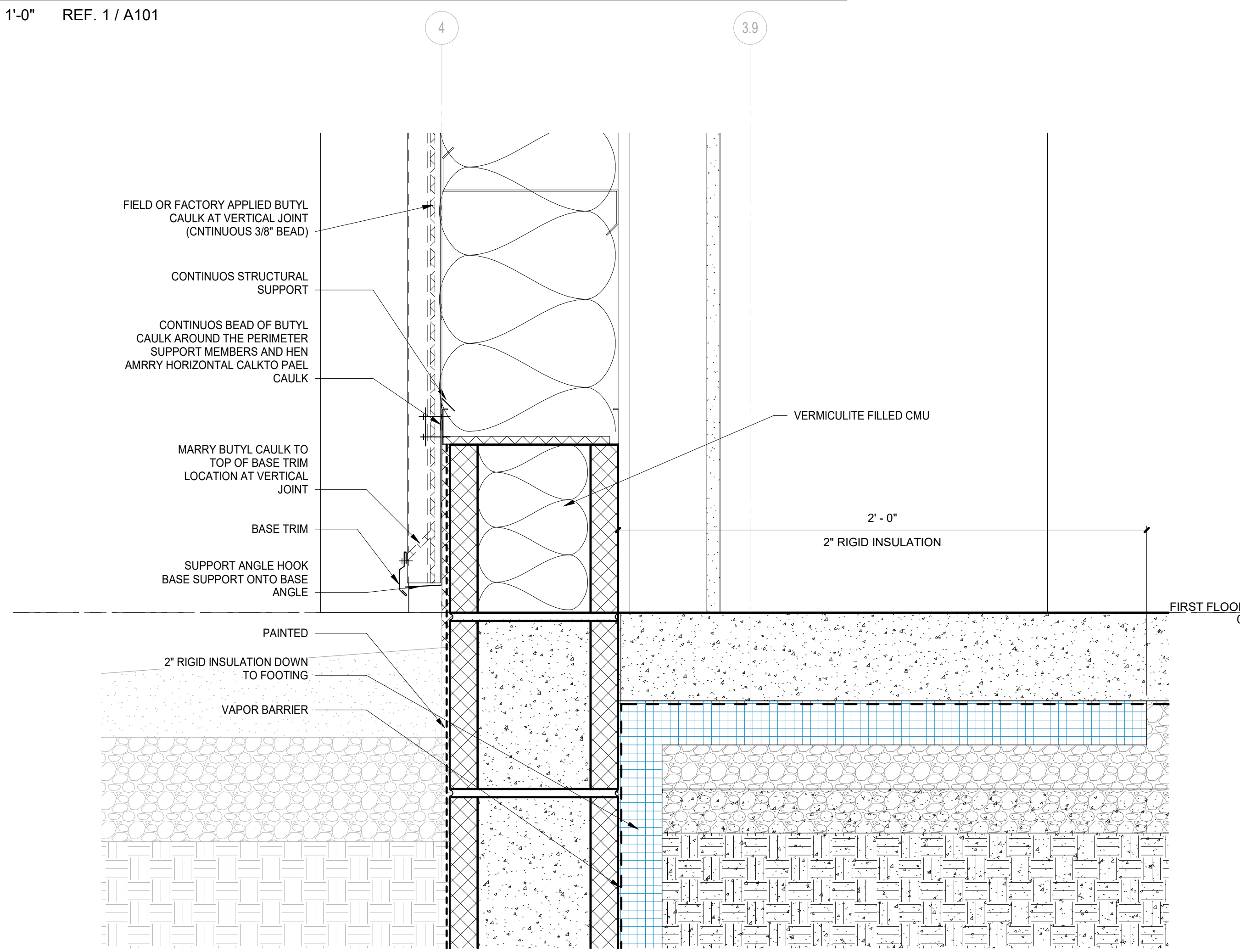
5 MEZZANINE RAILING DETAIL
 SCALE: 1 1/2" = 1'-0" REF. 1 / A102



6 STAIR DETAIL
 SCALE: 1 1/2" = 1'-0" REF. 3 / A501

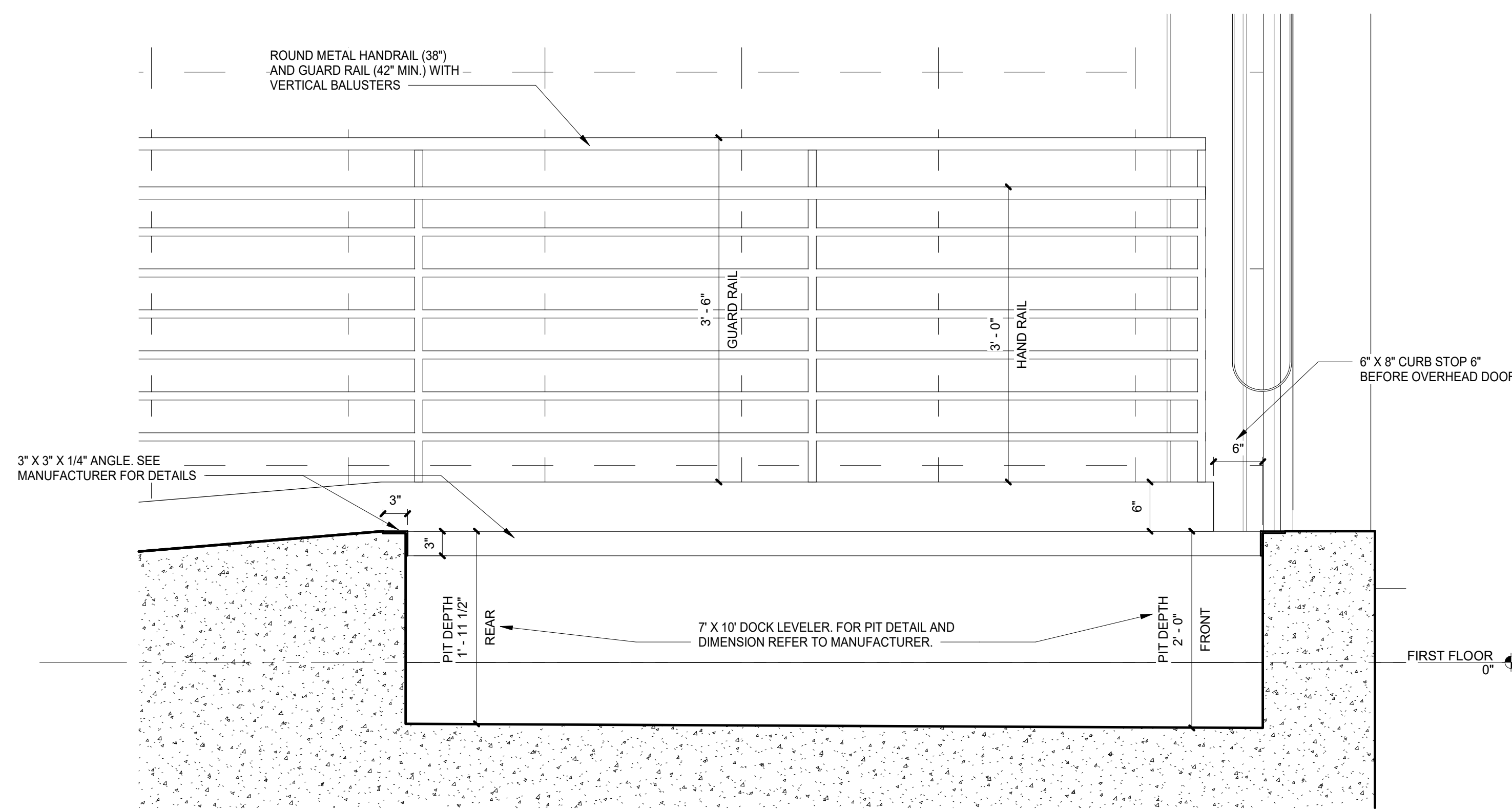


2 PEMB LOW EAVE DETAIL
 SCALE: 3" = 1'-0" REF. 2 / A311

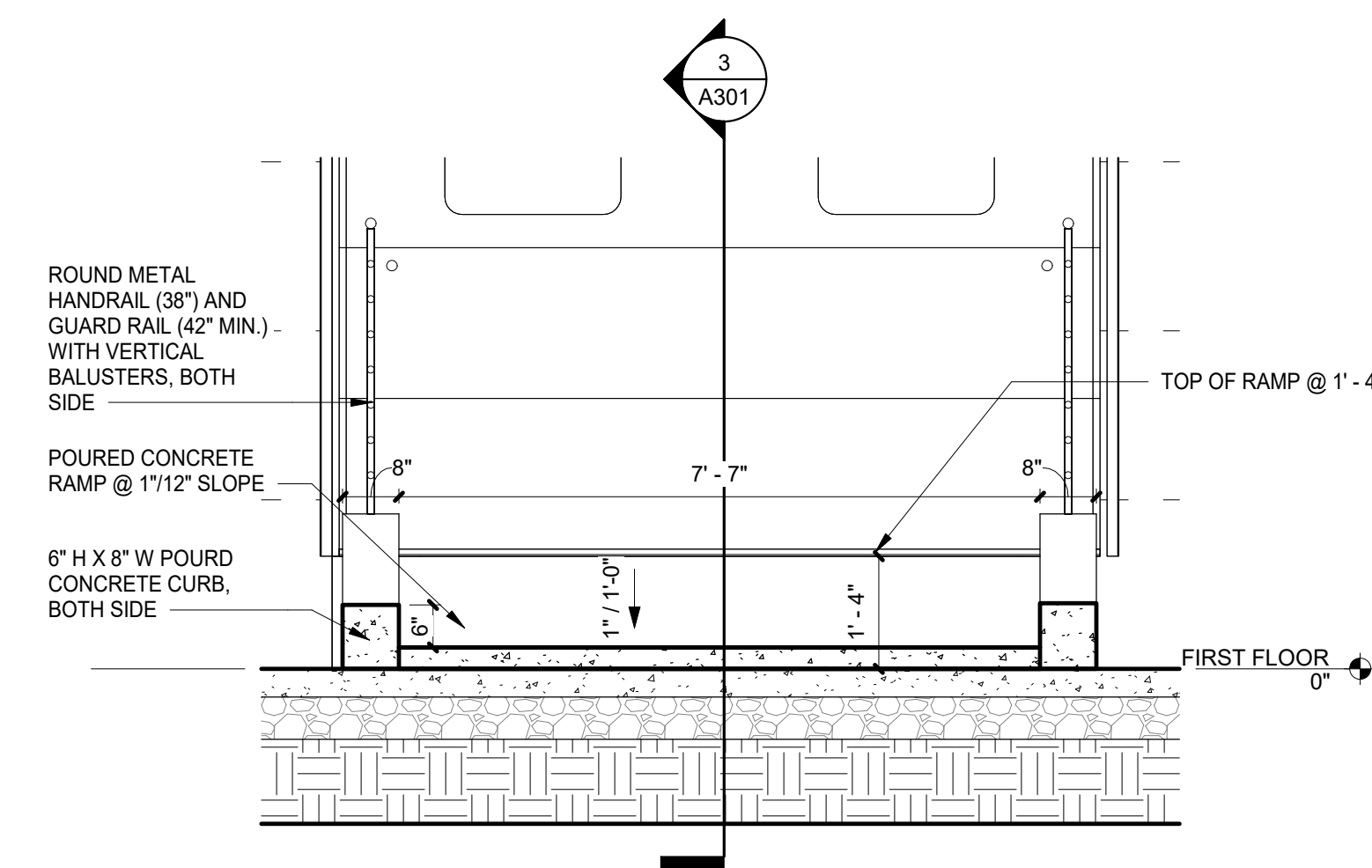


1 PEMB WALL TO FLOOR DETAILS
 SCALE: 3" = 1'-0" REF. 1 / A312

PLT DATE/TIME: 4/22/2024 4:55:27 PM



2 DOCK LEVELER PIT DETAIL
 SCALE: 1" = 1'-0" REF. 3 / A301



1 DOCK LEVELER RAMP DETAIL
 SCALE: 1/2" = 1'-0" REF. 1 / A101



#	Date	Disc.

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PROJECT:	#23122
DATE:	04/22/2024
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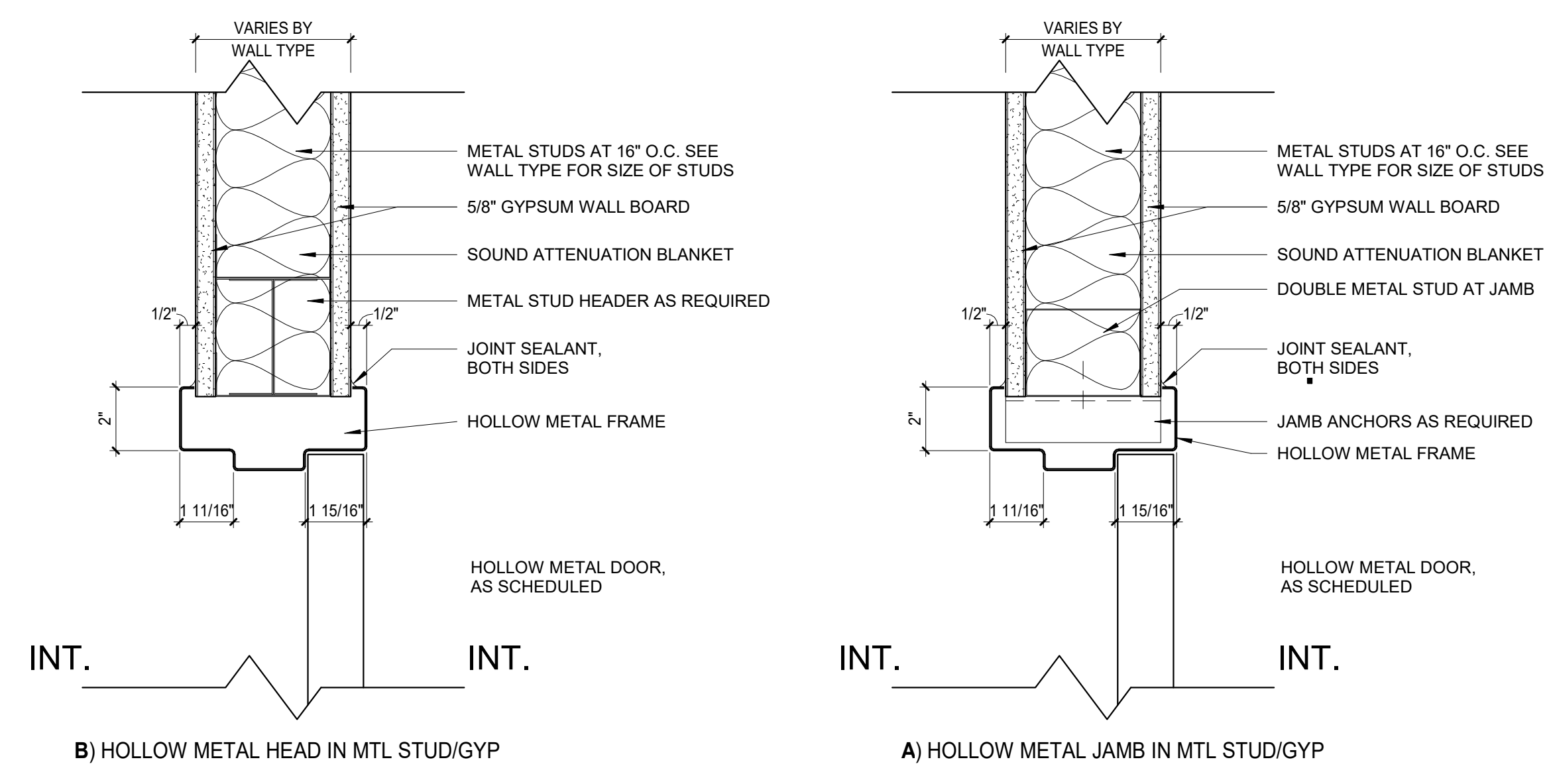
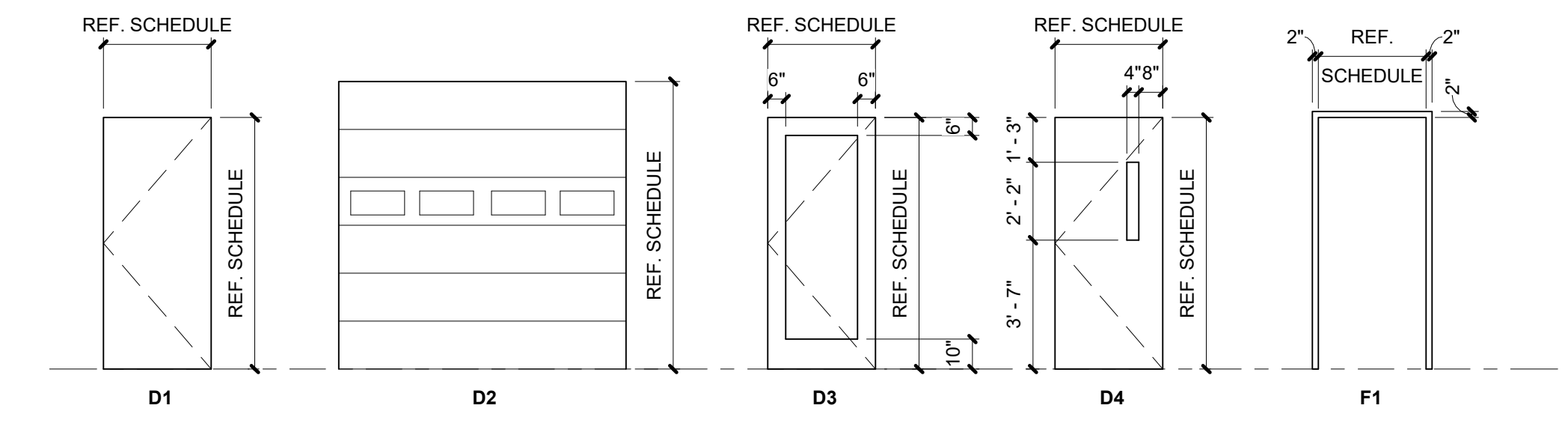
REVISIONS:

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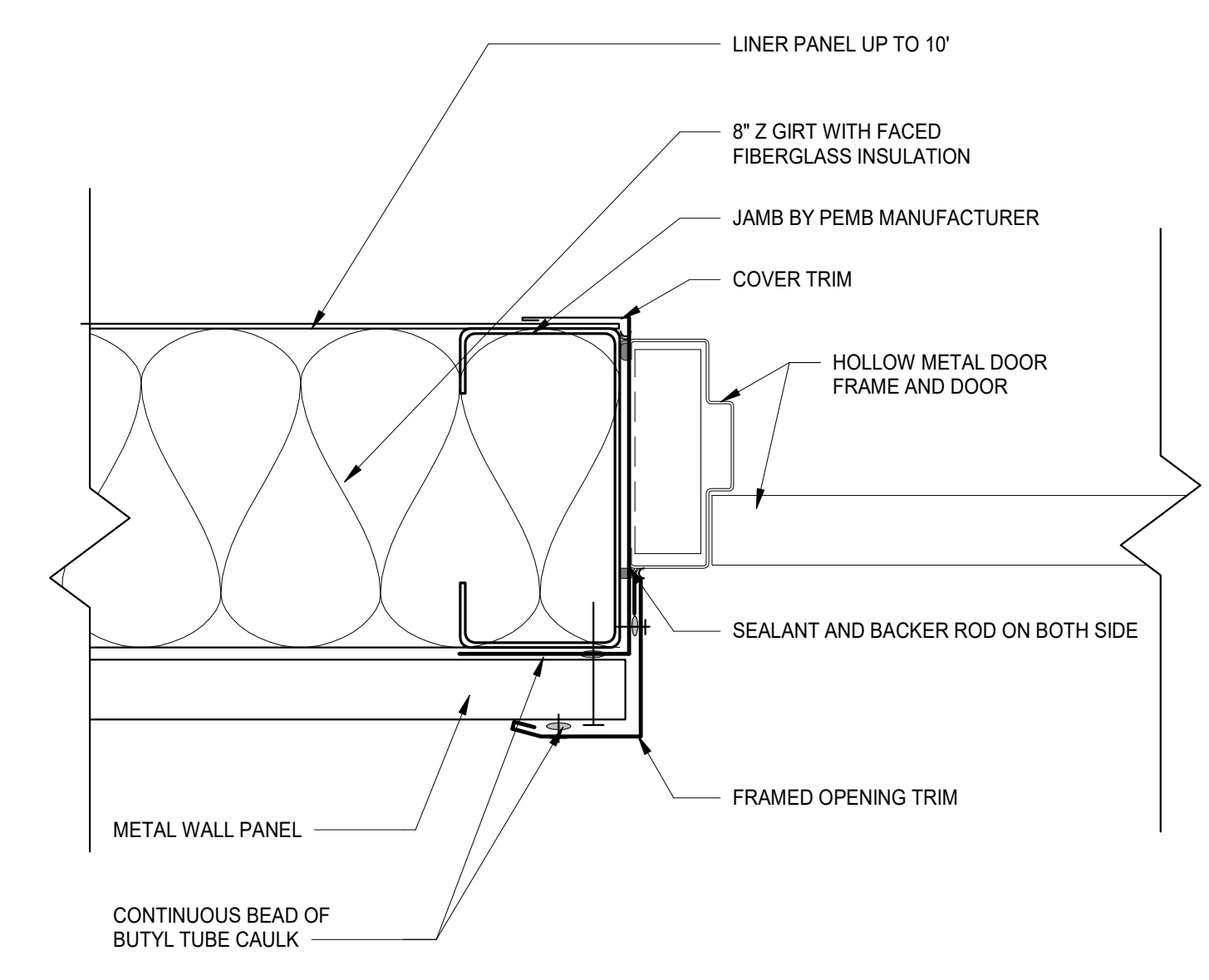
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 PROJECT: #23122
 DATE: 04/22/2024
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DOORS AND
 SCHEDULE &
 DETAILS
 A601

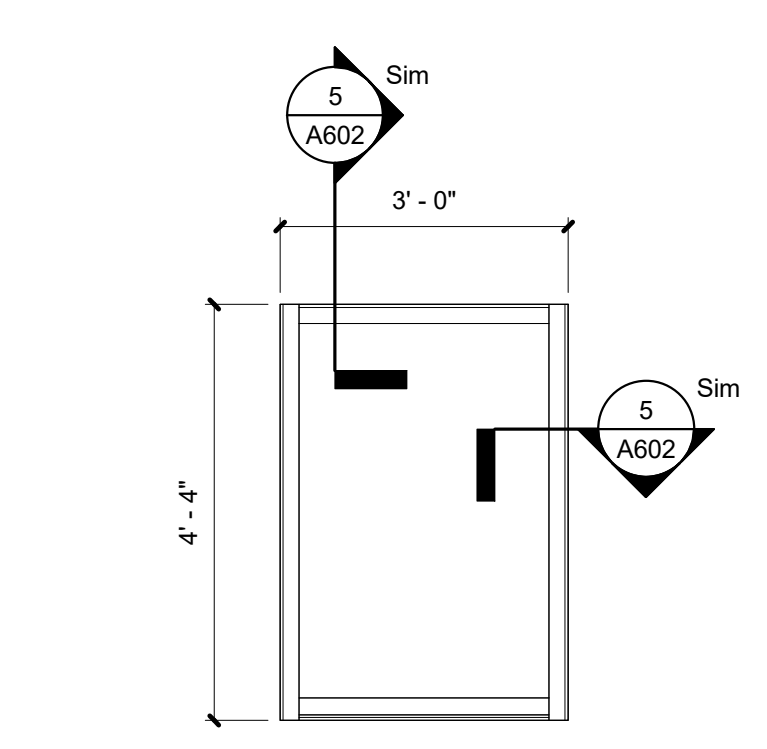
DR #	ROOM NAME	ROOM #	DOOR			FRAME				HARDWARE	GLAZING	NOTES			
			HEIGHT	WIDTH	ELEV	MATERIAL	SIZE	ELEV	MATERIAL				HEAD	JAMB	
A100.1	VESTIBULE	A100	7'-3 3/8"	3'-2 1/8"	D3	ALUM	4 1/2" KAWNEER STOREFRONT	e	N/A	ALUM	2/A602	3/A602	10	TEMPERED	CARD READER
A100.2	CORRIDOR	A103	7'-3 3/8"	3'-2 1/8"	D3	ALUM	4 1/2" KAWNEER STOREFRONT	e	N/A	ALUM	2/A602	3/A602	9	TEMPERED	CARD READER
A101	OFFICE	A101	7'-0"	3'-0"	D4	WD	36" x 84" - 2" HEAD D4	F1	HM	2/A601	2/A601	04	TEMPERED		
A102	STOR	A102	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD D4	F1	HM	2/A601	2/A601	06			
A104	OFFICE	A104	7'-0"	3'-0"	D4	HM	36" x 84" - 2" HEAD D4	F1	HM	2/A601	2/A601	04	TEMPERED		
A105.1	CONFERENCE	A105	7'-3 3/8"	3'-0 3/4"	D3	ALUM	4 1/2" KAWNEER STOREFRONT	N/A	ALUM	2/A602	3/A602	10	TEMPERED	CARD READER	
A105.2	CONFERENCE	A105	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	03			
A106	STOR	A106	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	07			
A107.1	CORRIDOR	A107	7'-3 3/8"	3'-3 1/4"	D3	ALUM	4 1/2" KAWNEER STOREFRONT	N/A	ALUM	2/A602	3/A602	10	TEMPERED		
A107.2	DRIVE THROUGH BAY	A117	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	08			
A108	OFFICE	A108	7'-0"	3'-0"	D4	WD	36" x 84" - 2" HEAD D4	F1	HM	2/A601	2/A601	04	TEMPERED		
A109	BREAK ROOM	A109	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	04			
A110	RR	A110	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	02			
A111	RR	A111	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	02			
A112	JAN	A112	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	07			
A113	RR/SHOWER	A113	7'-0"	3'-0"	D1	WD	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	02			
A114	LOCKERS	A114	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	01			
A115	MEP/SPRINKLER RISER	A115	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	11			
A116	DRIVE THROUGH BAY	A117	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	07			
A117.1	DRIVE THROUGH BAY	A117	10'-0"	10'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.2	DRIVE THROUGH BAY	A117	13'-0"	14'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.3	DRIVE THROUGH BAY	A117	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	3/A601	4/A601	05			
A117.4	DRIVE THROUGH BAY	A117	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	3/A601	4/A601	05			
A117.6	DRIVE THROUGH BAY	A117	9'-0"	9'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.8	DRIVE THROUGH BAY	A117	9'-0"	9'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.9	DRIVE THROUGH BAY	A117	9'-0"	9'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.10	DRIVE THROUGH BAY	A117	13'-0"	14'-0"	D2	HM	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A117.11	DRIVE THROUGH BAY	A117	10'-0"	10'-0"	D2	STEEL	OVERHEAD SECTIONAL DOOR	N/A		1/A602	4/A602	12			
A118	OFFICE	A118	7'-0"	3'-0"	D1	HM	36" x 84" - 2" HEAD	F1	HM	2/A601	2/A601	04			



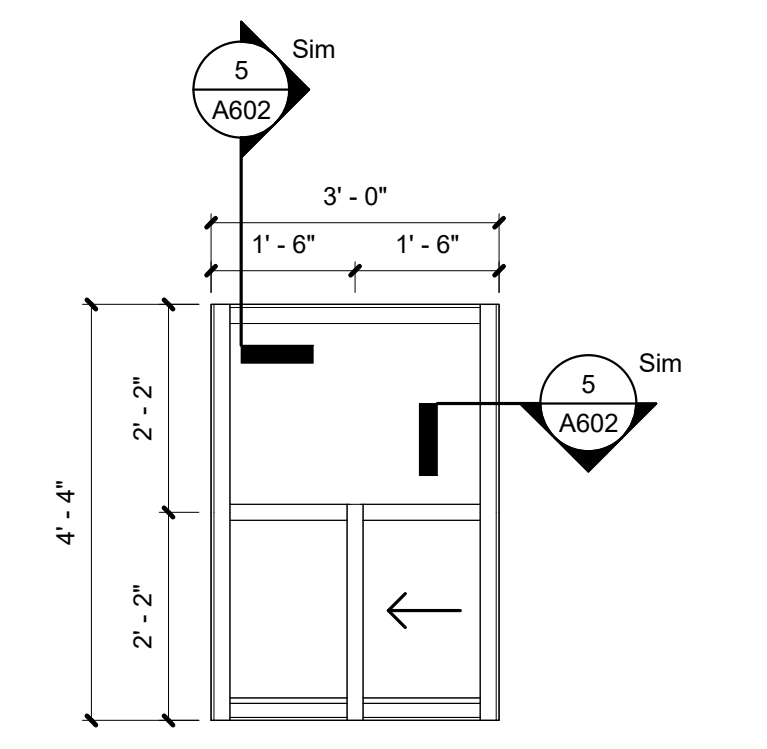
12 STANDARD INTERIOR DOOR DETAILS
 SCALE: 3" = 1'-0"



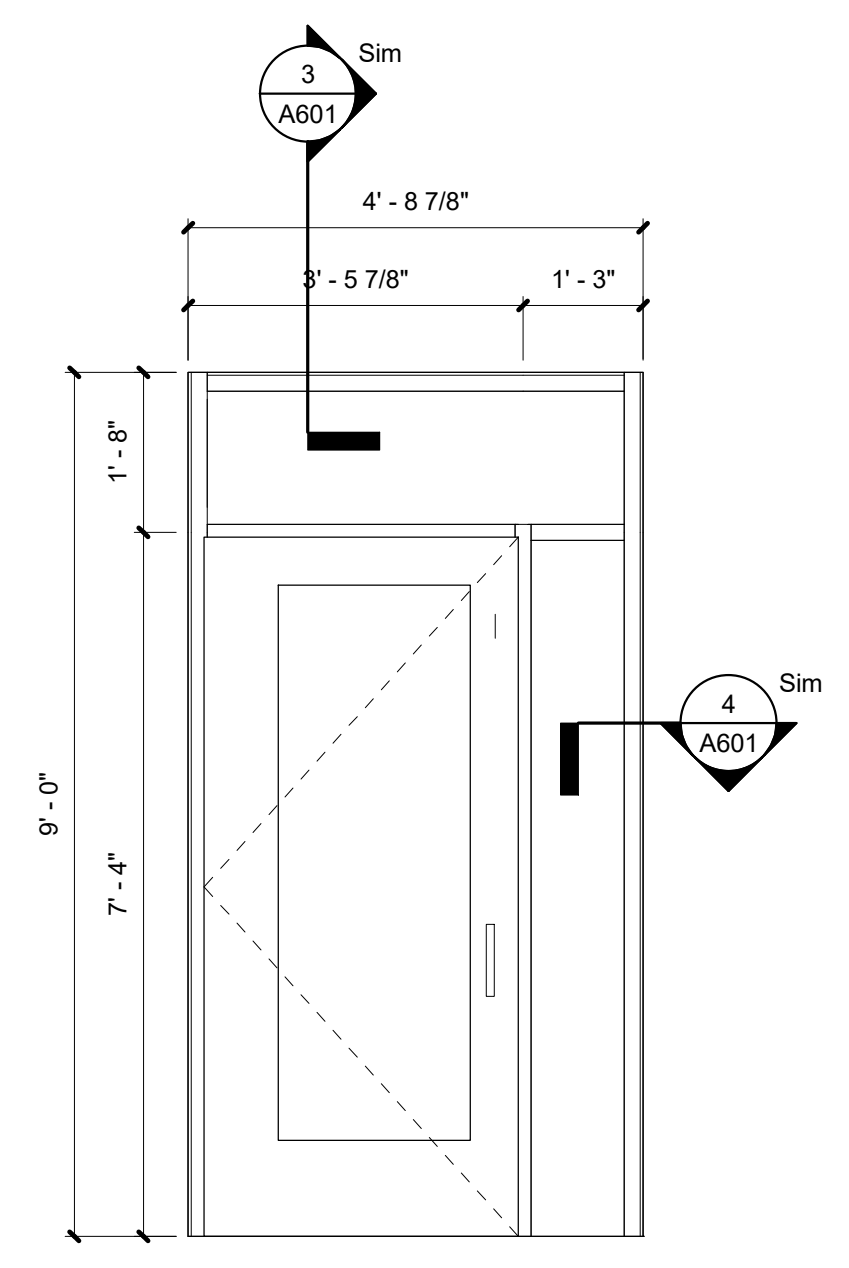
11 HM DOOR JAMB @ PEMB
 SCALE: 3" = 1'-0"



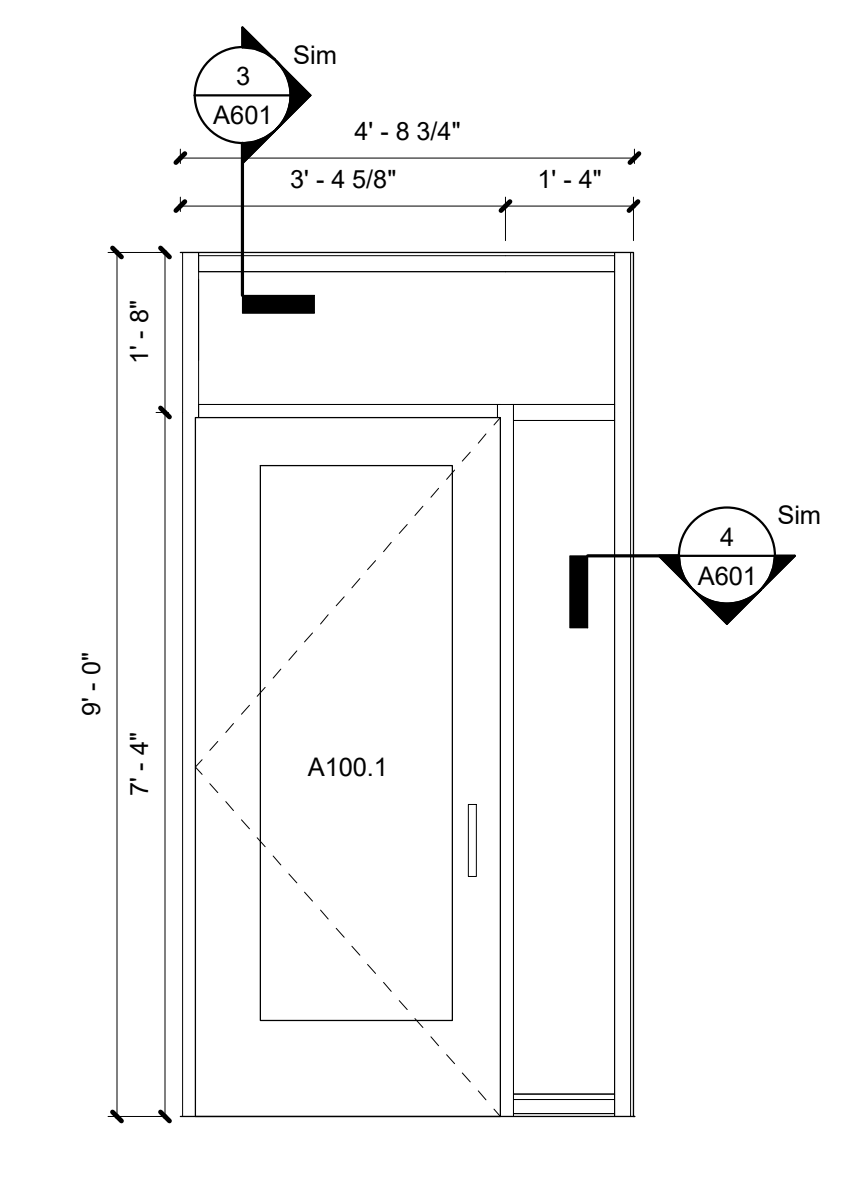
10 S3
 SCALE: 1/2" = 1'-0" REF. 1 / A101



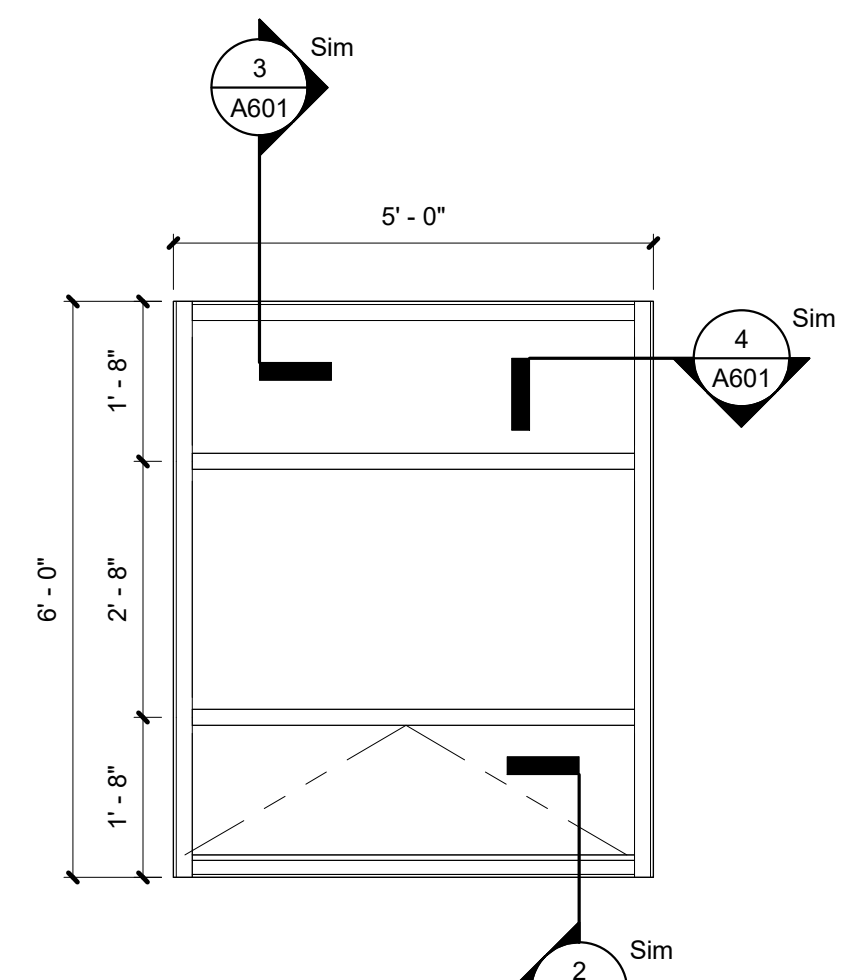
9 S2
 SCALE: 1/2" = 1'-0" REF. 1 / A101



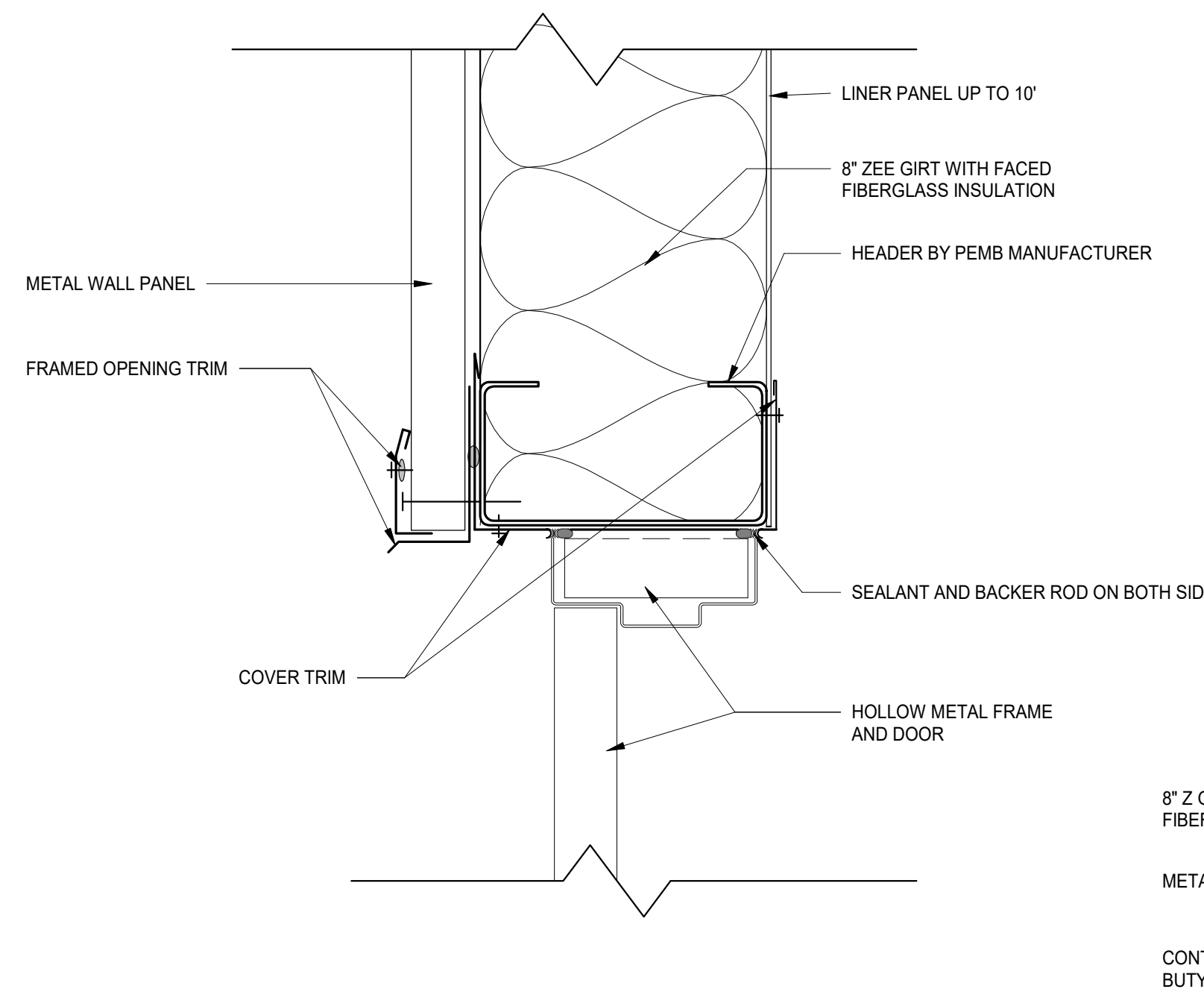
8 S5
 SCALE: 1/2" = 1'-0" REF. 1 / A101



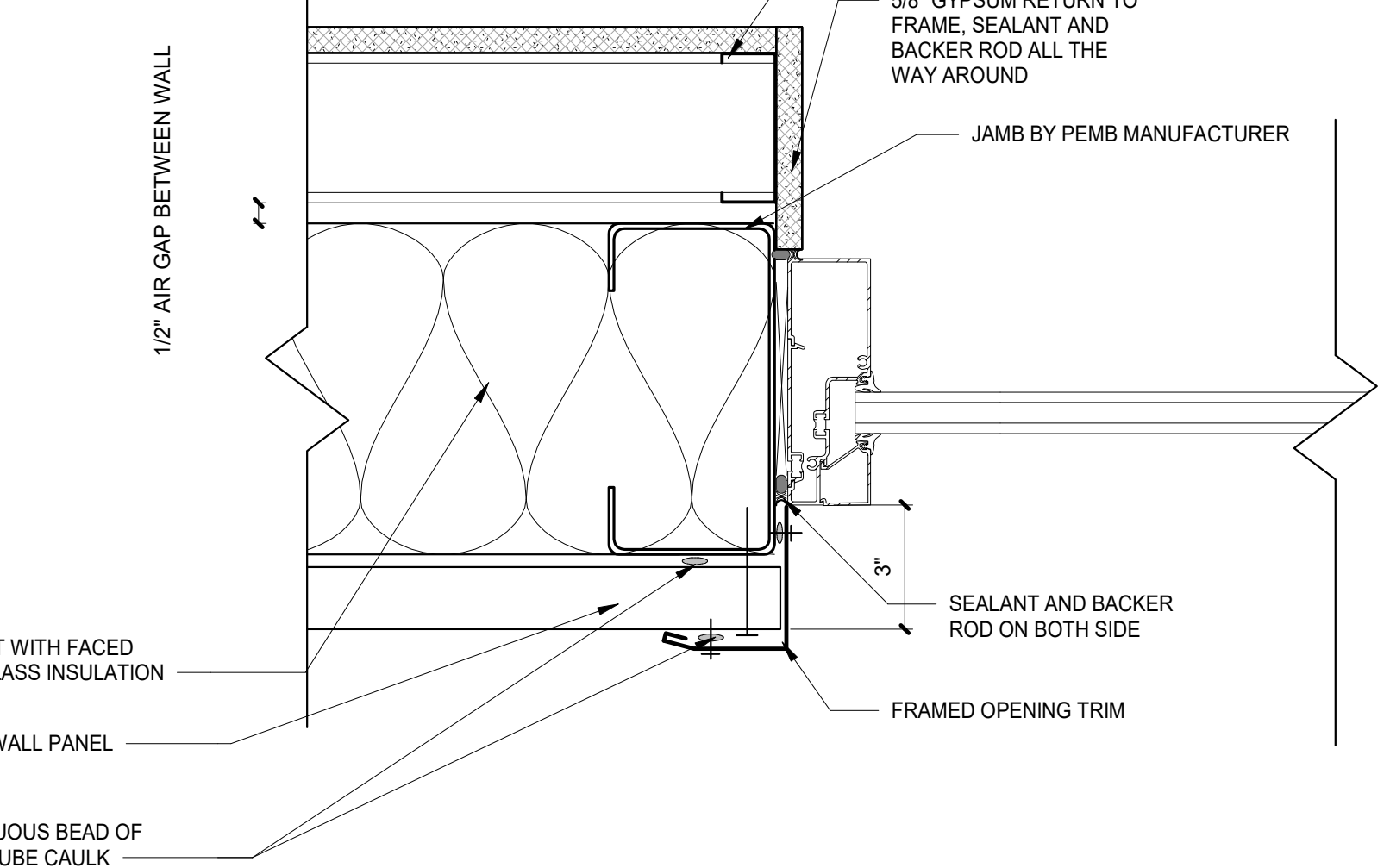
7 S4
 SCALE: 1/2" = 1'-0" REF. 1 / A101



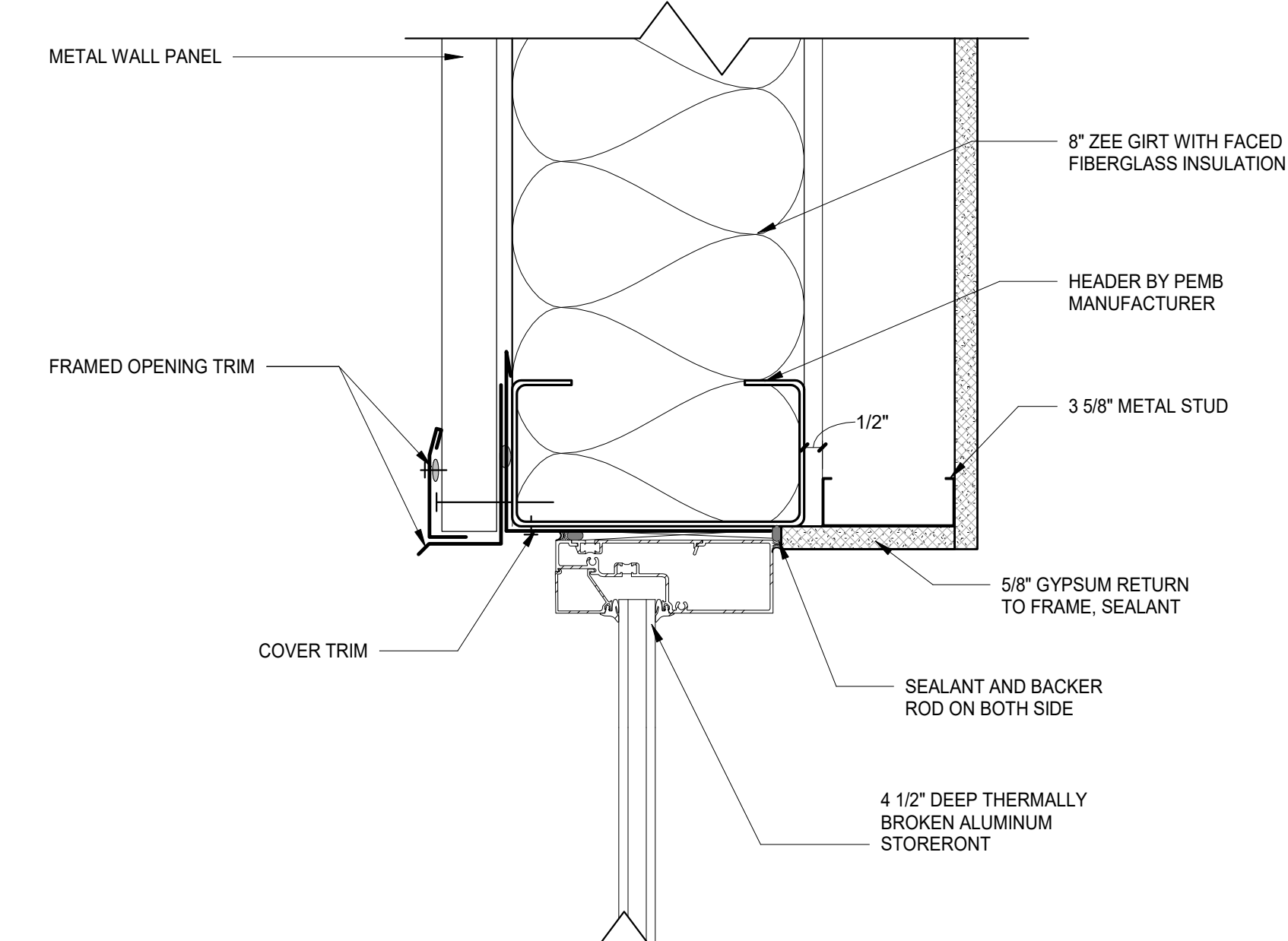
6 S1
 SCALE: 1/2" = 1'-0" REF. 1 / A101



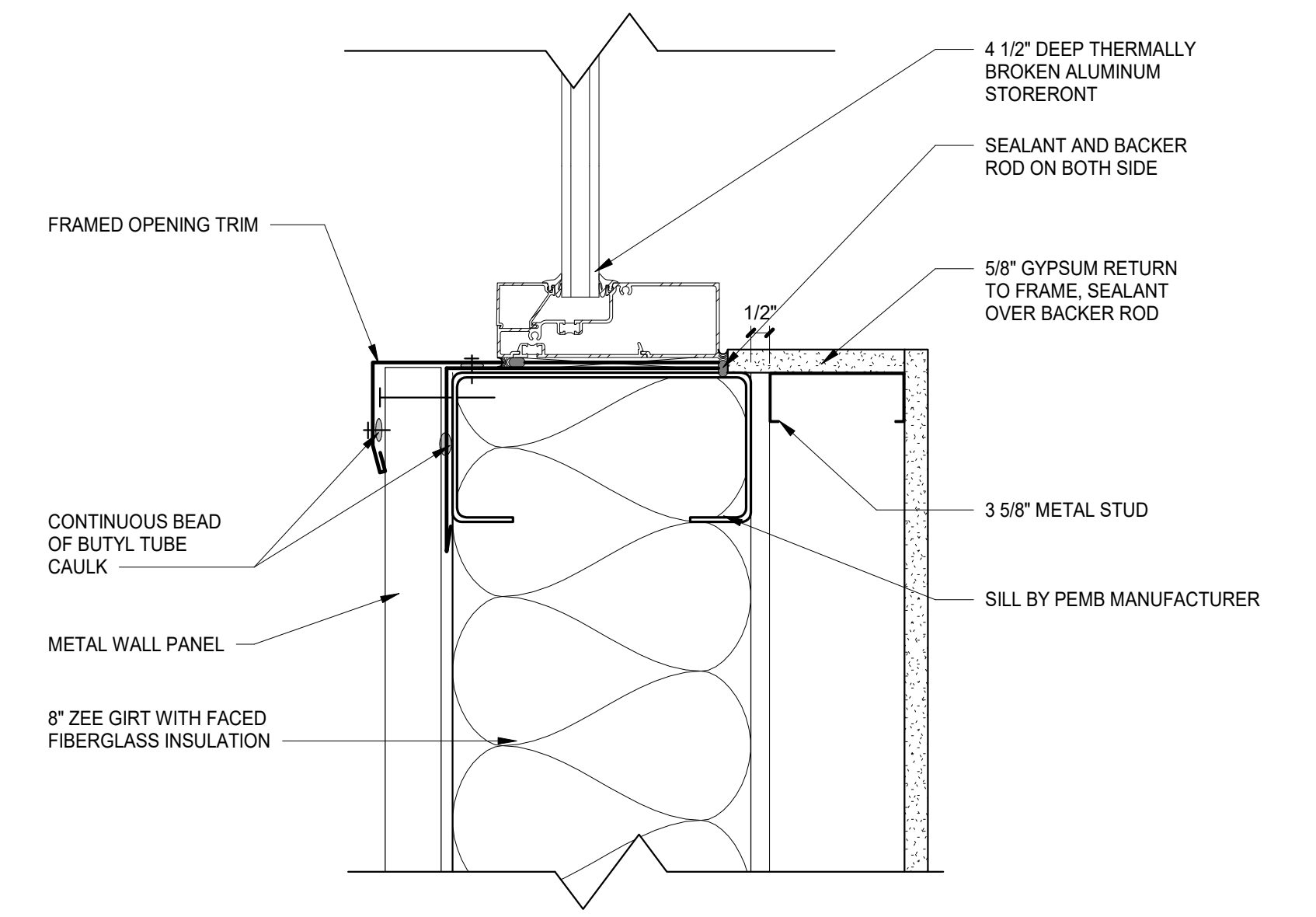
5 HM DOOR HEAD @ PEMB
 SCALE: 3" = 1'-0"



4 SFW JAMB @ PEMB & METAL STUD
 SCALE: 3" = 1'-0" REF. 6 / A601



3 SFW HEAD @ PEMB & METAL STUD
 SCALE: 3" = 1'-0" REF. 6 / A601



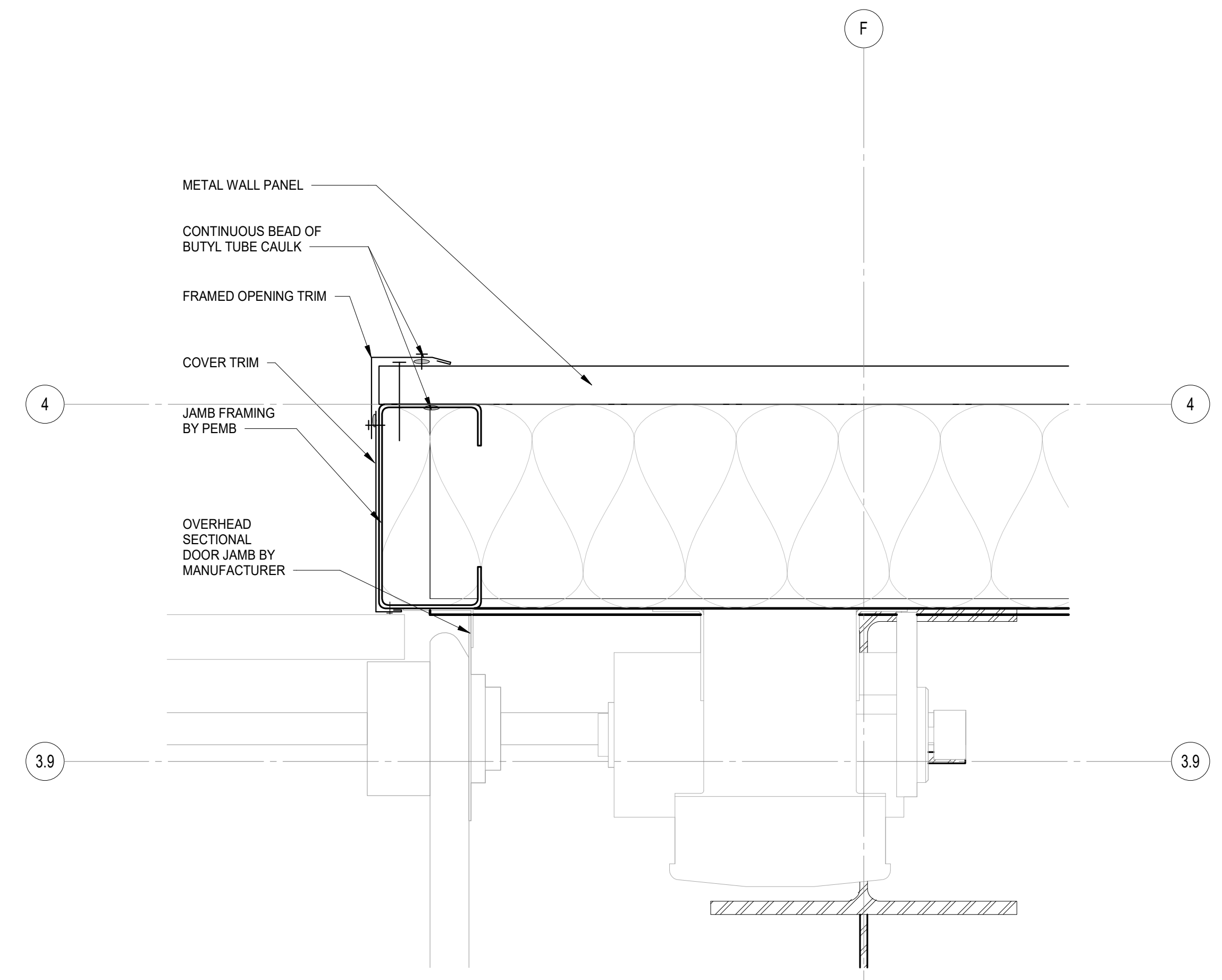
2 SFW SILL @ PEMB & METAL STUD
 SCALE: 3" = 1'-0" REF. 6 / A601



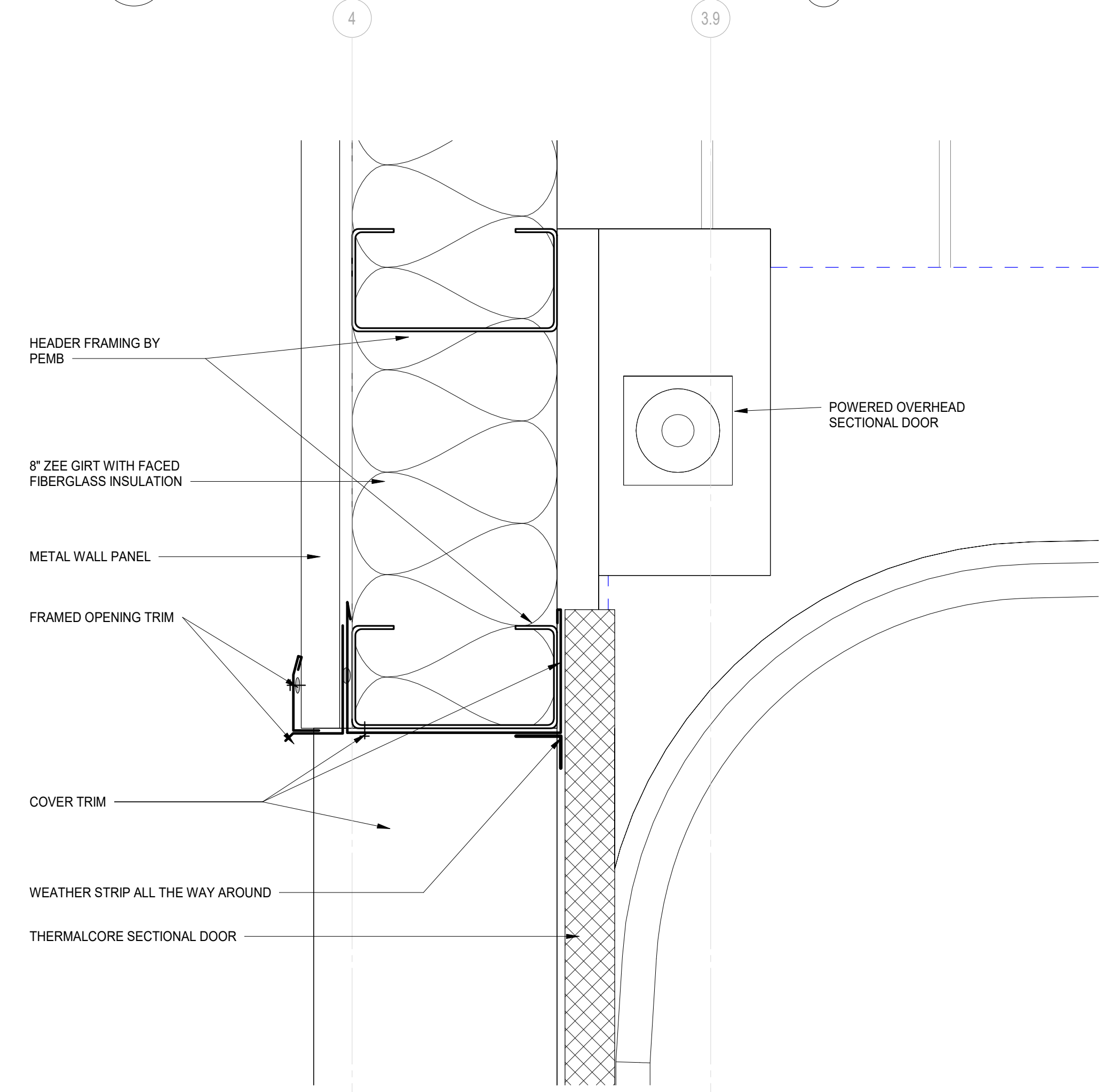
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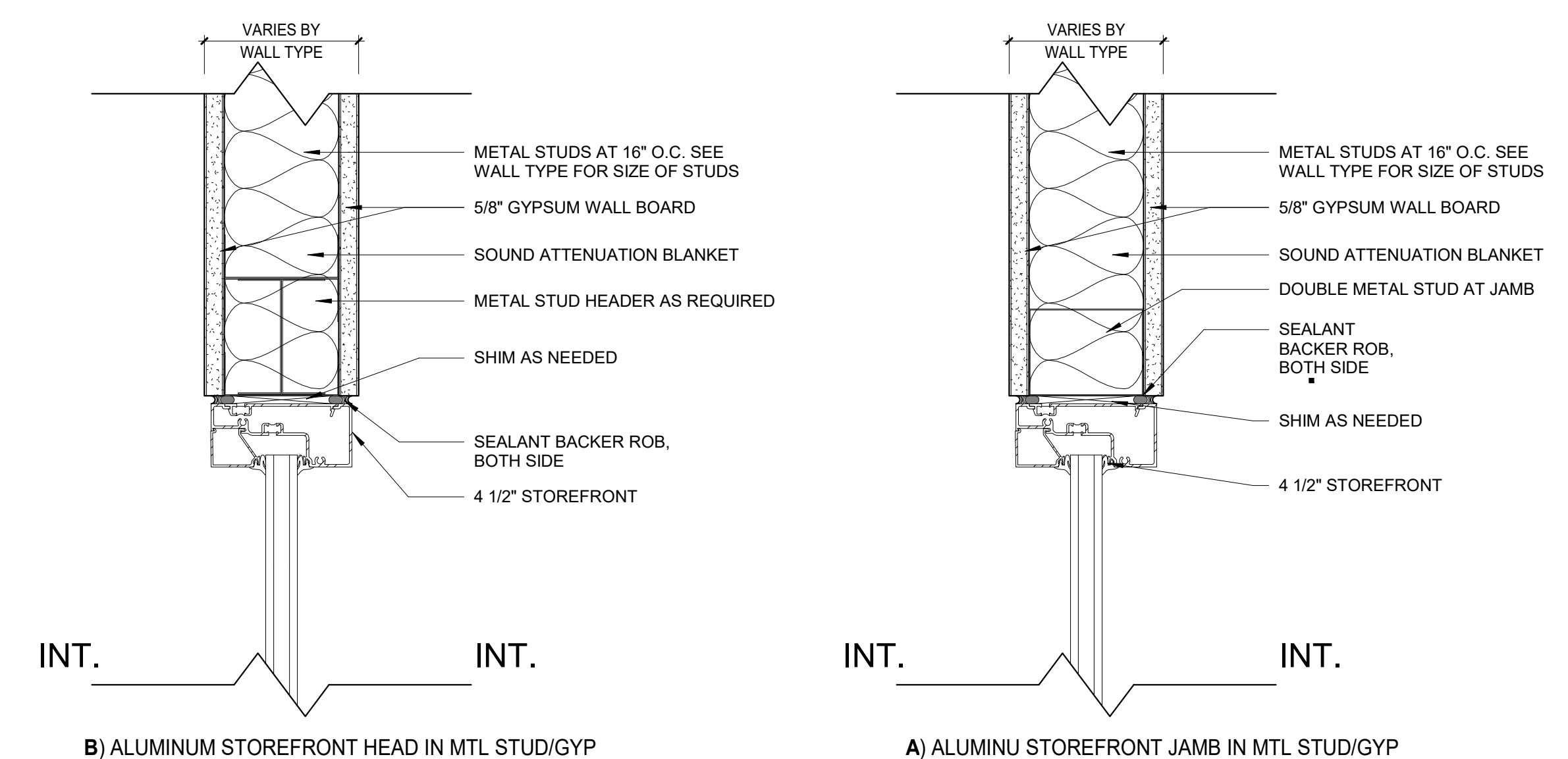
DOOR & ASF/CW DETAILS



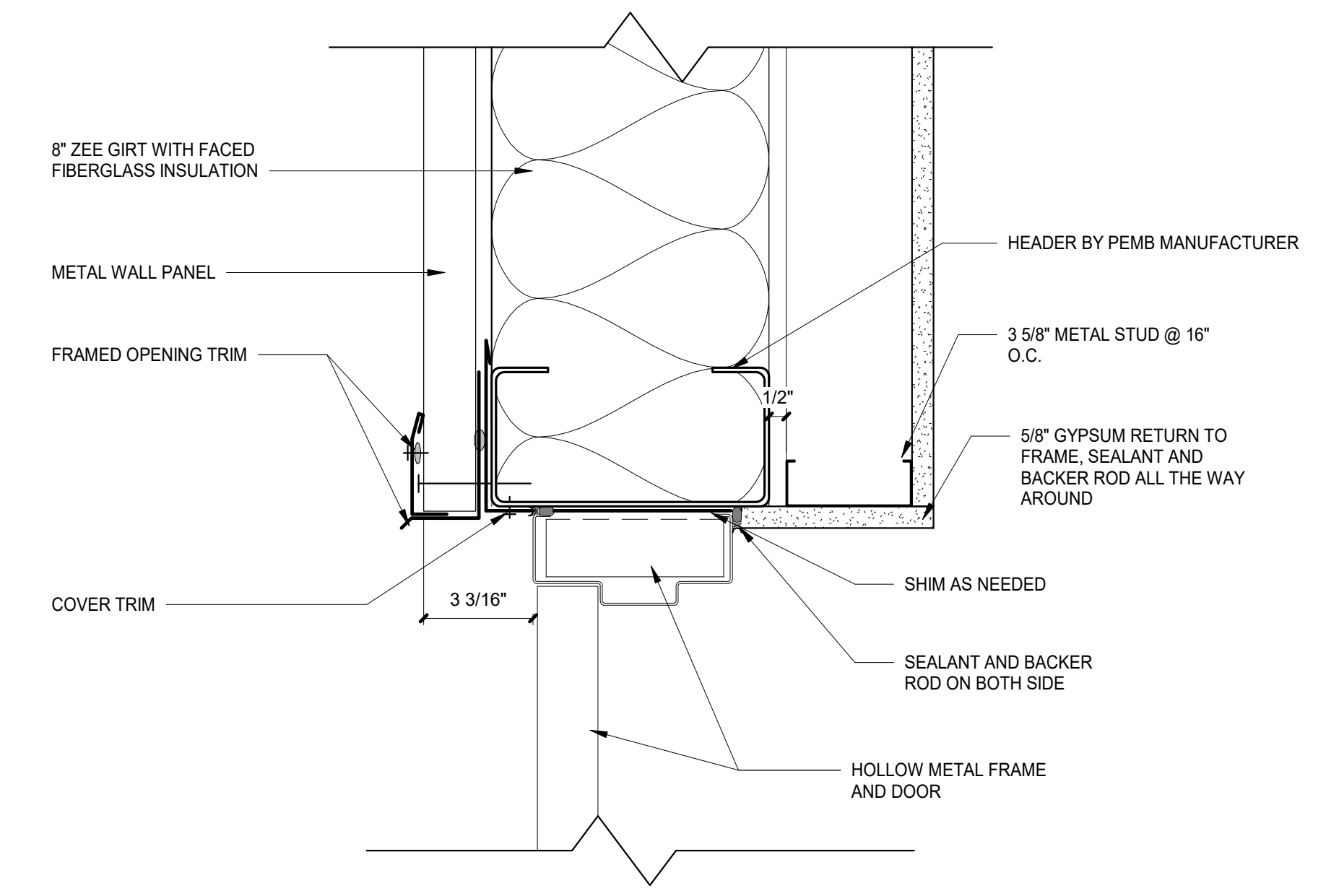
4 OVERHEAD SECTIONAL DOOR JAMB DETAIL
 SCALE: 3" = 1'-0" REF. 1 / A101



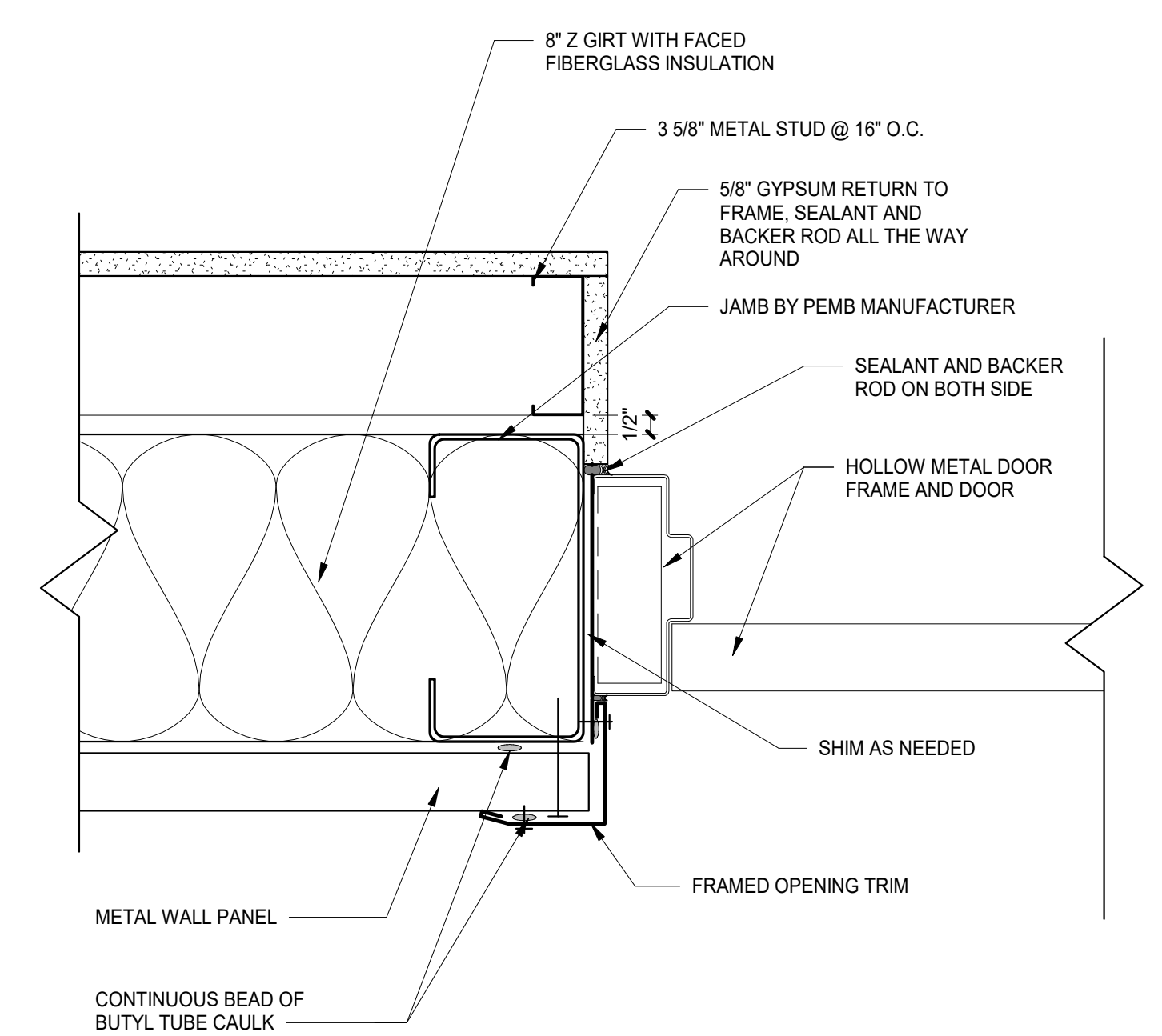
1 OVERHEAD SECTIONAL DOOR HEAD DETAIL
 SCALE: 3" = 1'-0" REF. 3 / A311



5 STANDARD INTERIOR WINDOW DETAILS
 SCALE: 3" = 1'-0" REF. 9 / A601



2 HM DOOR HEAD @ PEMB & METAL STUD
 SCALE: 3" = 1'-0"



3 HM DOOR JAMB @ PEMB & METAL STUD
 SCALE: 3" = 1'-0"

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPAIR ALL EXISTING WALLS, SLAB, AND CEILINGS TO A CONDITION SUITABLE FOR ACCEPTING NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. MINIMUM LEVEL 4 FINISH ON EXISTING AND NEW WALLS, UNLESS NOTED OTHERWISE.
- ALL FLOORING TRANSITIONS TO COMPLY WITH ADA GUIDELINES AND TO OCCUR UNDER CENTER OF DOORWAYS AND OR AT CENTERLINE OF WALL, UNLESS INDICATED DIFFERENTLY ON FINISH PLANS. PROVIDE REDUCER STRIPS WHEREVER CARPET OR LVT MEET CONCRETE.
- CONTRACTOR TO PROVIDE PROTECTION AS NEEDED DURING CONSTRUCTION. IF, ANY, TO PRESERVE NEW FINISHES WHILE COMPLETING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.
- WHERE WALLS ARE INDICATED TO RECEIVE PAINT FINISH, PRIME AND PAINT GRILLES, FIRE EXTINGUISHER CABINETS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR.
- CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.
- CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.
- DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.
- IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.
- ALL MECHANICAL CLOSETS TO HAVE A SEALED CONCRETE FLOOR FINISH. PROVIDE RESILIENT TRANSITION STRIP TO MATCH RB-1.
- ALL WALLS, COLUMNS, AND CEILINGS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.
- ALL NEW HM DOORS AND HM DOOR FRAMES ARE TO BE PAINTED PT-5, UNLESS NOTED OTHERWISE.
- WINDOW SILLS TO RECEIVE SOLID SURFACE, SS-1. REFER TO FINISH LEGEND.

FINISH LEGEND

NOTES

ETR EXISTING TO REMAIN
TBD TO BE DETERMINED

FLOOR COVERING

CARPET TILE
CPT-1: MFG: INTERFACE
TYPE: 25CM X 1M CARPET PLANK
PATTERN: OPEN AIR 410
COLOR: 107739 MIST
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: OFFICES, CONFERENCE ROOM - MAIN
REMARKS: WHEN CPT-1 AND CPT-2 ARE COMBINED, CPT-1 IS TO BE 90%.
CONTACT: JAE PARK 317-459-8762

CPT-2: MFG: INTERFACE
TYPE: 25CM X 1M CARPET PLANK
PATTERN: OPEN AIR 410 STRIA
COLOR: 103253 MIST
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: OFFICES, CONFERENCE ROOM - ACCENT
REMARKS: WHEN CPT-1 AND CPT-2 ARE COMBINED, CPT-2 IS TO BE 10%.
CONTACT: JAE PARK 317-459-8762

WOM-1: MFG: MILLIKEN
TYPE: 50CM X 50CM WALK-OFF TILE
PATTERN: OBEX TILE - CUTX THREAD
COLOR: TDX118-119 DARK GREY
INSTALL: ASHLAR, REF. PLAN FOR DIRECTION
LOCATION: VESTIBULES
CONTACT: JESSALYN AYON 317-617-5057

CONCRETE
S-CON TYPE: SEALED CONCRETE, REF. SPECS

WALL BASE

RESILIENT BASE
RB-1: MFG: TARKETT JOHNSONITE
TYPE: 4" RESILIENT WALL BASE
COLOR: 48 GREY
LOCATION: TYPICAL, UNLESS NOTED OTHERWISE
REMARKS: COLOR TO BE USED WITH ALL VINYL TRANSITION STRIPS
CONTACT: JEN MAYNARD 765-480-3266

PAINT/WALL FINISH

PAINT
PT-1: MFG: PPG
TYPE: REF. SPECS FOR TYPE
COLOR: BLOWING CLOUDS PPG1041-3
LOCATION: TYPICAL

PT-2: MFG: PPG
TYPE: REF. SPECS FOR TYPE
COLOR: GOSLING GRAY PPG099-3
LOCATION: ACCENT

PT-3: MFG: PPG
TYPE: REF. SPECS FOR TYPE
COLOR: BLUE OASIS PPG1156-6
LOCATION: ACCENT

PT-4: MFG: PPG
TYPE: REF. SPECS FOR TYPE
COLOR: MALLARD GREEN PPG1132-6
LOCATION: ACCENT

PT-5: MFG: PPG
TYPE: SEMI-GLOSS, REF. SPECS FOR TYPE
COLOR: CITY SKYLINE PPG095-6
LOCATION: HM DOORS AND HM FRAMES

WALL TILE
WT-1: MFG: PLATFORM SURFACES
TYPE: 12" X 24" GLAZED PORCELAIN TILE
PATTERN: MIAMI
COLOR: TITANIUM
GROUT: MAPEI 27 SILVER
INSTALL: HORIZONTAL QUARTER OFFSET
LOCATION: RESTROOM WALLS, DRINKING FOUNTAIN WALLS
REMARKS: USE SCHLUTER TRIM AT EDGES
CONTACT: TRACEY KESSENS-GRiffin 317-366-2835

PLASTIC LAMINATE/SOLID SURFACE

PLASTIC LAMINATE
PL-1: MFG: FORMICA
TYPE: PLASTIC LAMINATE
COLOR: BEIGE ELM 5794-NG
INSTALL: MONOLITHIC, VERTICAL GRAIN
LOCATION: TYPICAL CASEWORK
CONTACT: KYLIE LEYBA 317-869-8717

SOLID SURFACE
SS-1: MFG: CORIAN
TYPE: 1/2" SOLID SURFACE
COLOR: ANTARCTICA
INSTALL: MONOLITHIC
LOCATION: COUNTERTOP, WINDOW SILLS

MISCELLANEOUS

DOORS
DR-1: TYPE: STANDARD FINISH FROM SELECTED MANUFACTURER
COLOR: DESIGNER TO APPROVE
LOCATION: ALL NEW WOOD DOORS

LOCKERS
LR-1: TYPE: STANDARD FINISH FROM SELECTED MANUFACTURER
COLOR: DESIGNER TO APPROVE
LOCATION: LOCKER ROOM

WALL PROTECTION
WP-1: MFG: MARLITE OR SIMILAR
TYPE: 4" HIGH FRP WALL PANEL
COLOR: LIGHT GRAY
LOCATION: CUSTOMER CLOSETS, GARAGE BAY
REMARKS: INSTALL ON WALLS BEHIND AND ADJACENT TO MOP SINK



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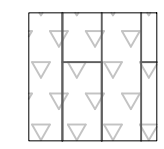
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FINISH LEGEND

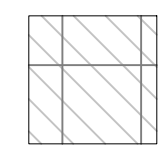
FLOOR FINISH HATCH LEGEND



CPT-1



CPT-1, CPT-2



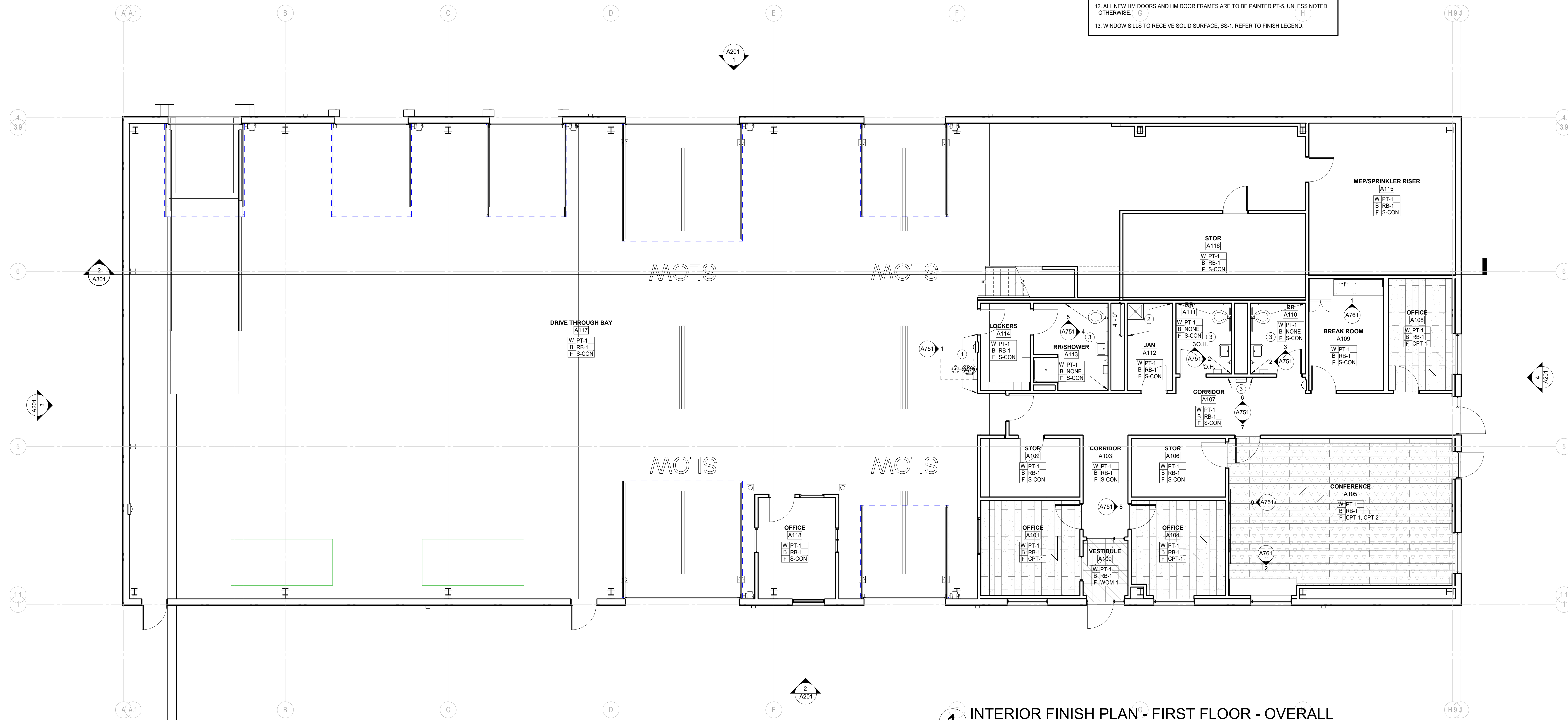
WOM-1

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPAIR ALL EXISTING WALLS, SLAB, AND CEILINGS TO A CONDITION SUITABLE FOR ACCEPTING NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. MINIMUM LEVEL 4 FINISH ON EXISTING AND NEW WALLS, UNLESS NOTED OTHERWISE.
- ALL FLOORING TRANSITIONS TO COMPLY WITH ADA GUIDELINES AND TO OCCUR UNDER CENTER OF DOORWAYS AND OR AT CENTERLINE OF WALL UNLESS INDICATED DIFFERENTLY ON FINISH PLANS. PROVIDE REDUCER STRIPS WHEREVER CARPET OR LVT MEET CONCRETE.
- CONTRACTOR TO PROVIDE PROTECTION AS NEEDED DURING CONSTRUCTION. IF ANY, TO PRESERVE NEW FINISHES WHILE COMPLETING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT'S AND DESIGNERS. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL UNLESS NOTED OTHERWISE.
- WHERE WALLS ARE INDICATED TO RECEIVE PAINT FINISH, PRIME AND PAINT GRILLES, FIRE EXTINGUISHER CABINETS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR.
- CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.
- CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.
- DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.
- IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.
- ALL MECHANICAL CLOSETS TO HAVE A SEALED CONCRETE FLOOR FINISH. PROVIDE RESILIENT TRANSITION STRIP TO MATCH RB-1.
- ALL WALLS, COLUMNS, AND CEILINGS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.
- ALL NEW HM DOORS AND HM DOOR FRAMES ARE TO BE PAINTED PT-5, UNLESS NOTED OTHERWISE.
- WINDOW SILLS TO RECEIVE SOLID SURFACE, SS-1. REFER TO FINISH LEGEND.

PLAN NOTES - FINISH PLAN

- PROVIDE FIBERGLASS REINFORCED PANELS, WP-1 AT THIS LOCATION. INSTALL FROM TOP OF BASE UP TO ALIGN WITH DOOR FRAME.
- PROVIDE FIBERGLASS REINFORCED PANELS, WP-1 ON WALLS ADJACENT TO TO MOP SINK, 4'-0" A.F.F. FINISH WITH TRIM.
- WALL TILE, WT-1 AT THIS LOCATION. REFER TO INTERIOR ELEVATIONS.



1 INTERIOR FINISH PLAN - FIRST FLOOR - OVERALL
SCALE: 3/16" = 1'-0" REF. 1 / A201



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INTERIOR FINISH PLAN - FIRST FLOOR



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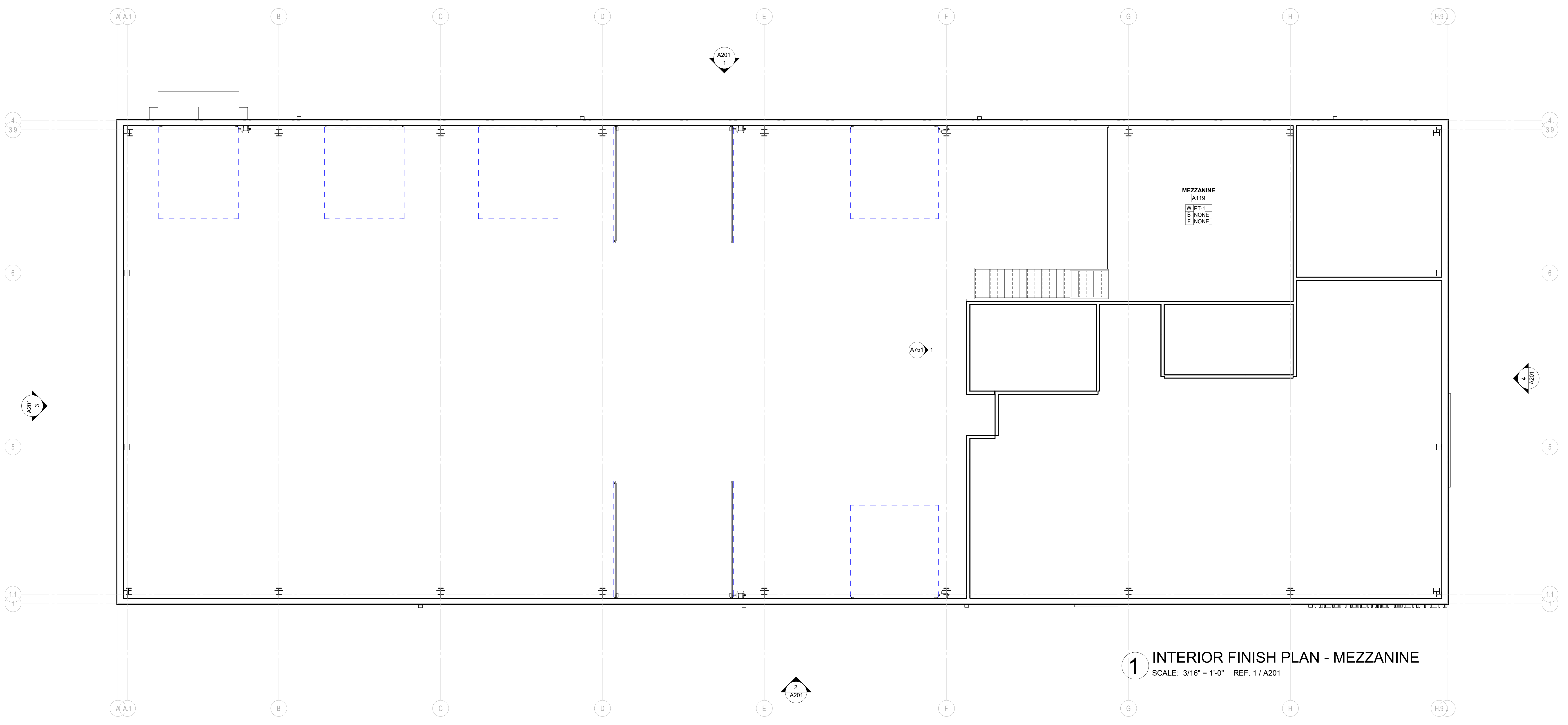
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INTERIOR FINISH PLAN - MEZZANINE

- ### GENERAL NOTES
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPAIR ALL EXISTING WALLS, SLAB, AND CEILINGS TO A CONDITION SUITABLE FOR ACCEPTING NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. MINIMUM LEVEL 4 FINISH ON EXISTING AND NEW WALLS, UNLESS NOTED OTHERWISE.
 - ALL FLOORING TRANSITIONS TO COMPLY WITH ADA GUIDELINES AND TO OCCUR UNDER CENTER OF DOORWAYS AND OR AT CENTERLINE OF WALL UNLESS INDICATED DIFFERENTLY ON FINISH PLANS. PROVIDE REDUCER STRIPS WHEREVER CARPET OR LVT MEET CONCRETE.
 - CONTRACTOR TO PROVIDE PROTECTION AS NEEDED DURING CONSTRUCTION. IF, ANY, TO PRESERVE NEW FINISHES WHILE COMPLETING CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT'S AND DESIGNERS. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL UNLESS NOTED OTHERWISE.
 - WHERE WALLS ARE INDICATED TO RECEIVE PAINT FINISH, PRIME AND PAINT GRILLES, FIRE EXTINGUISHER CABINETS, AND OTHER ITEMS EMBEDDED IN WALL CONSTRUCTION TO MATCH SURFACE ON WHICH THEY OCCUR.
 - CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.
 - CONTRACTOR TO PROVIDE SCHLUTER EDGE WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.
 - DO NOT INSTALL GYPSUM BOARD BEHIND TILE BACKER BOARD LOCATIONS.
 - IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.
 - ALL MECHANICAL CLOSETS TO HAVE A SEALED CONCRETE FLOOR FINISH. PROVIDE RESILIENT TRANSITION STRIP TO MATCH RB-1.
 - ALL WALLS, COLUMNS, AND CEILINGS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.
 - ALL NEW HM DOORS AND HM DOOR FRAMES ARE TO BE PAINTED PT-5, UNLESS NOTED OTHERWISE.
 - WINDOW SILLS TO RECEIVE SOLID SURFACE, SS-1. REFER TO FINISH LEGEND.

- ### PLAN NOTES - FINISH PLAN
- PROVIDE FIBERGLASS REINFORCED PANELS, WP-1 AT THIS LOCATION. INSTALL FROM TOP OF BASE UP TO ALIGN WITH DOOR FRAME.
 - PROVIDE FIBERGLASS REINFORCED PANELS, WP-1 ON WALLS ADJACENT TO MOP SINK, 4'-0" A.F.F. FINISH WITH TRIM.
 - WALL TILE, WT-1 AT THIS LOCATION. REFER TO INTERIOR ELEVATIONS.



1 INTERIOR FINISH PLAN - MEZZANINE
 SCALE: 3/16" = 1'-0" REF. 1 / A201



#	Date	Desc.

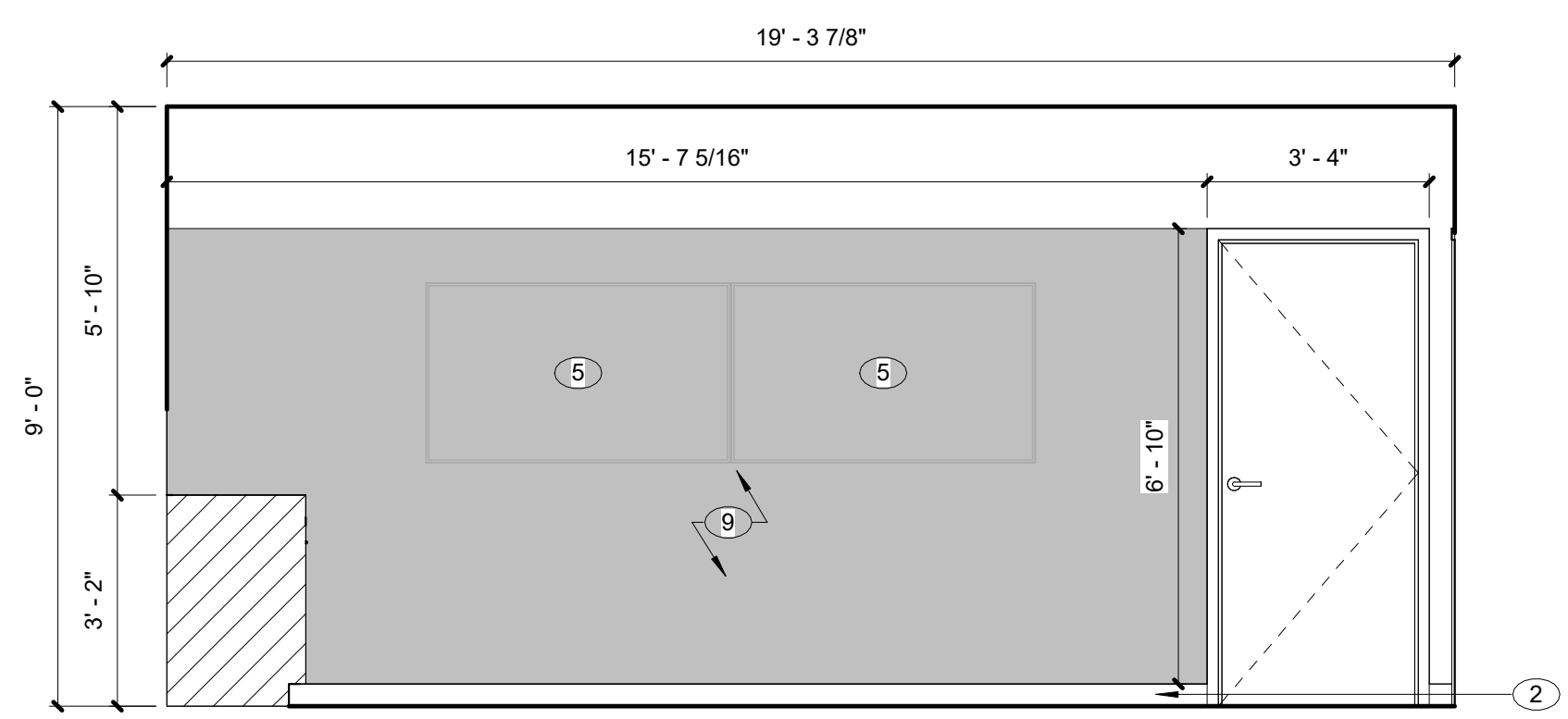
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INTERIOR ELEVATIONS

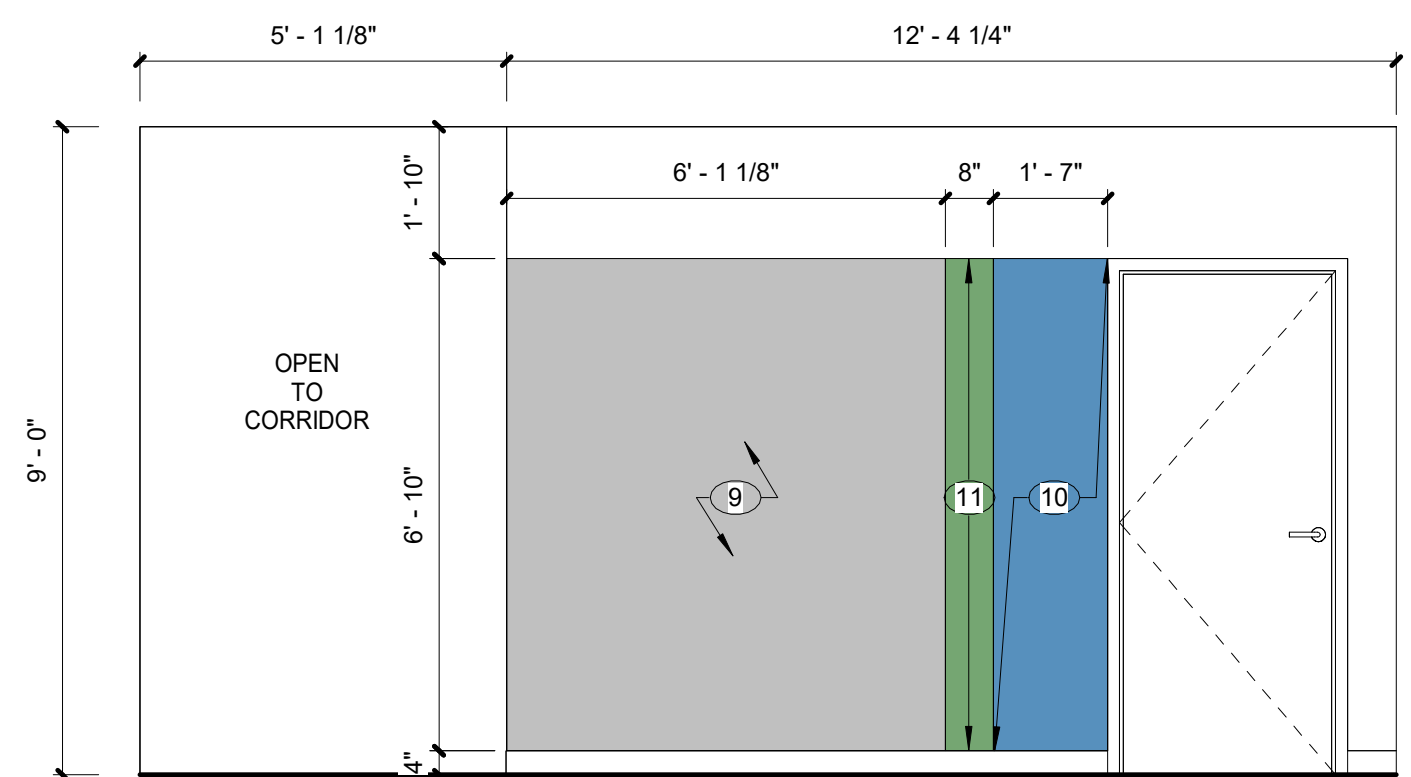
GENERAL NOTES

- CONTRACTOR TO PROVIDE SCHLUTER TRIM WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.
- DO NOT INSTALL GYPSUM BOARD BEHIND BACKER BOARD WHERE TILE FINISH IS INDICATED.
- CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.
- IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.
- ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE PRIMED AND PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.
- ALL WALLS AND COLUMNS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.

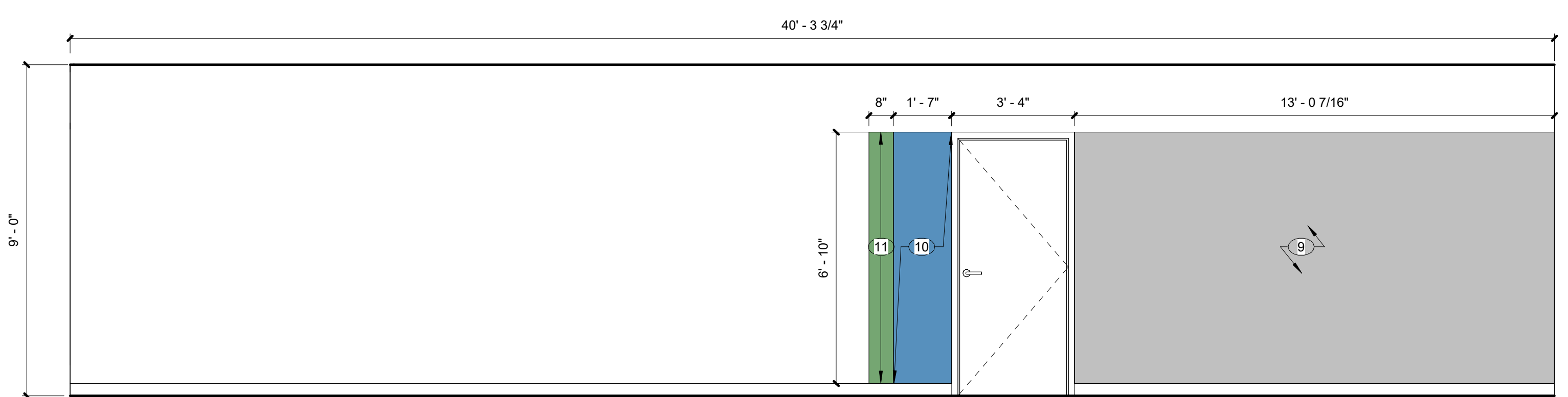
- ELEVATION NOTES - INTERIOR**
- WALL TILE, WT-1 AT THIS LOCATION. 7'-0" A.F.F.. FINISH WITH SCHLUTER JOLLY EDGE TRIM.
 - WALL BASE, RB-1. REFER TO FINISH LEGEND.
 - SOLID SURFACE COUNTERTOP, SS-1 WITH 4" HIGH BACKSPLASH AT THIS LOCATION. REFER TO FINISH LEGEND.
 - PLASTIC LAMINATE CASEWORK, PL-1 AT THIS LOCATION. REFER TO FINISH LEGEND.
 - SPACE FOR OWNER PROVIDED. CONTRACTOR INSTALLED APPLIANCE.
 - FIBERGLASS REINFORCED PANELS, WP-1 AT THIS LOCATION. INSTALL FROM TOP OF BASE TO ALIGN WITH DOOR FRAME.
 - 1/4" BRUSHED NICKEL FINISH, SCHLUTER TRIM - FLOOR/WALL TRANSITION.
 - WALL TILE, WT-1 AT THIS LOCATION. ALIGN WITH TOP OF DOOR FRAME. FINISH EDGES WITH SCHLUTER JOLLY TRIM.
 - ACCENT PAINT, PT-2 AT THIS LOCATION. REFER TO FINISH LEGEND.
 - ACCENT PAINT, PT-3 AT THIS LOCATION. REFER TO FINISH LEGEND.
 - ACCENT PAINT, PT-4 AT THIS LOCATION. REFER TO FINISH LEGEND.



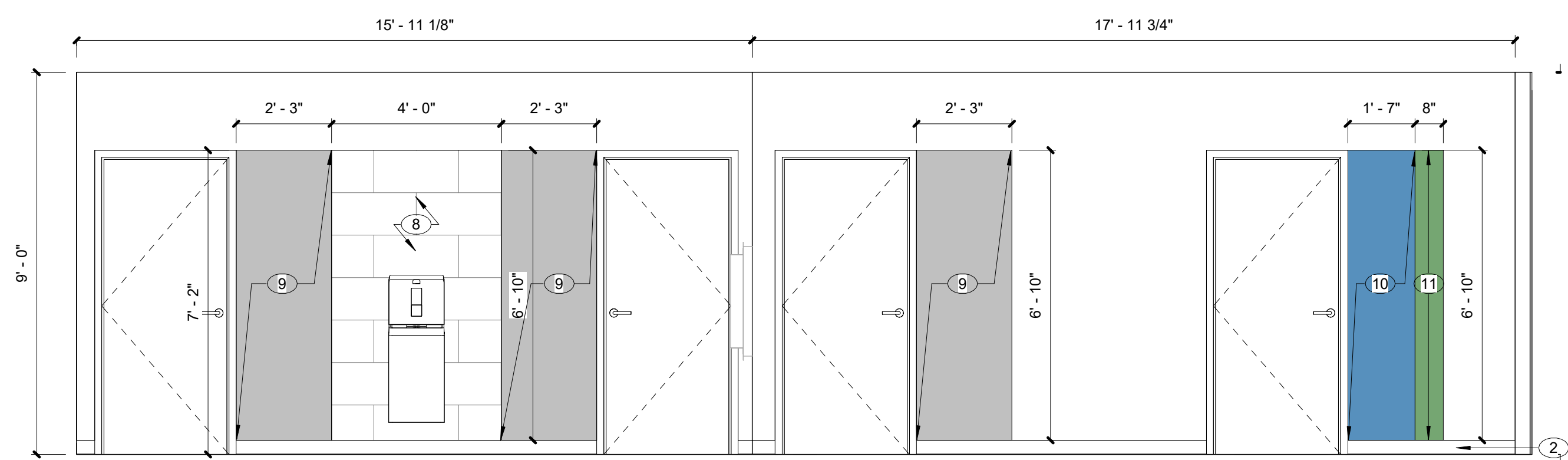
9 INT. ELEV. A105 CONF. ROOM
 SCALE: 3/8" = 1'-0" REF. 1 / A101



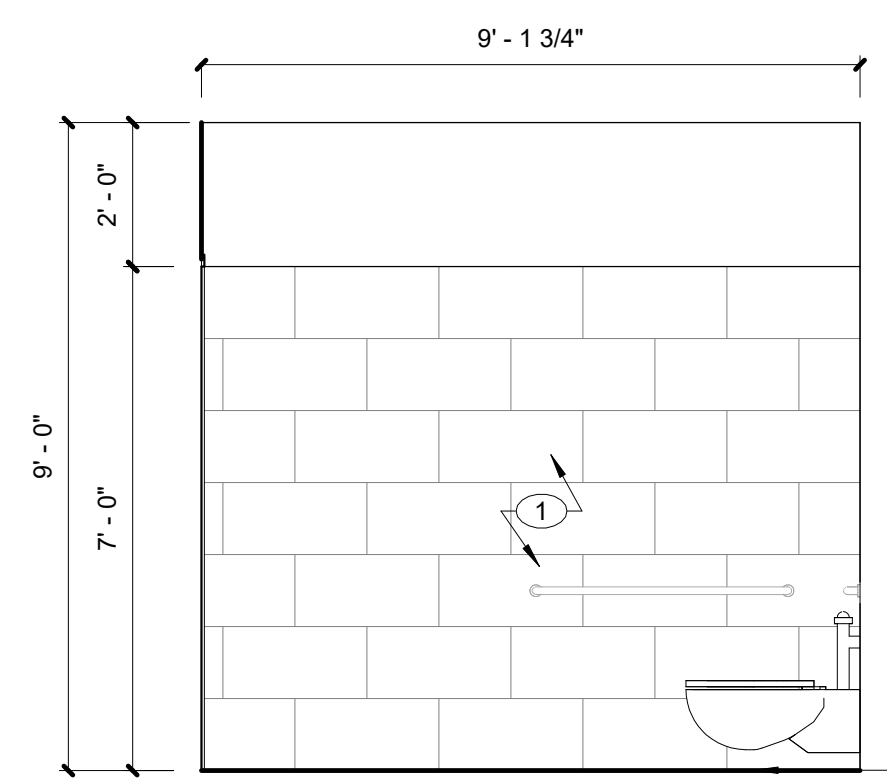
8 INT. ELEV. A103 CORRIDOR EAST
 SCALE: 3/8" = 1'-0" REF. 1 / A101



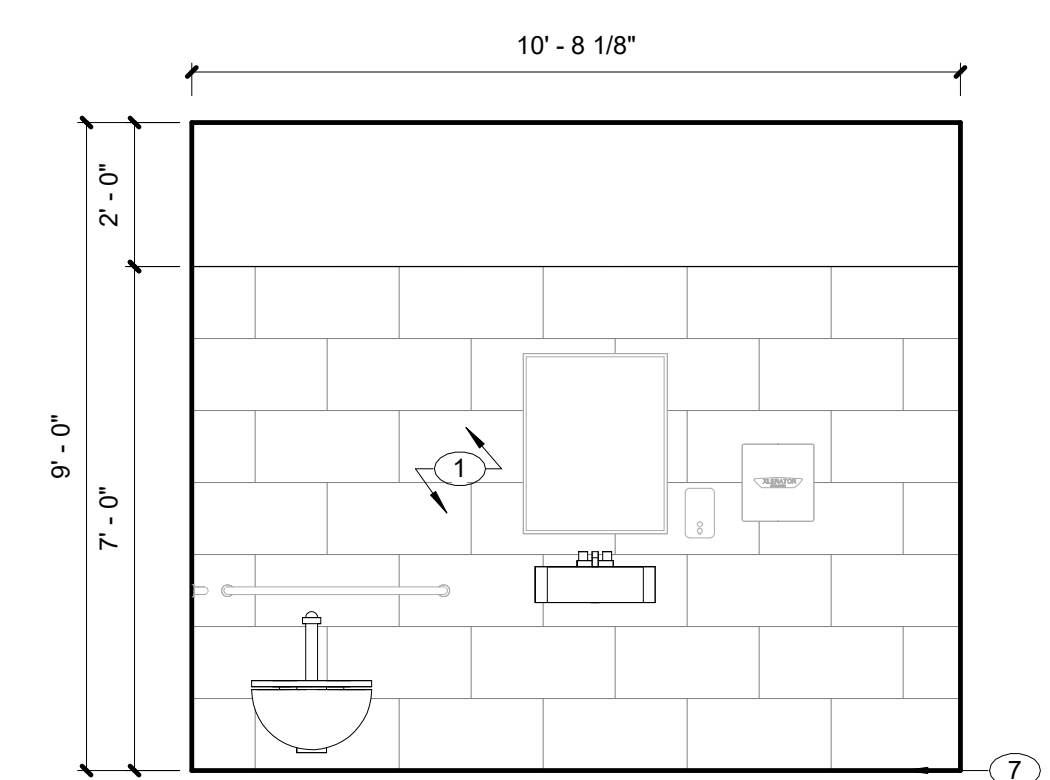
7 INT. ELEV. A107 CORRIDOR SOUTH
 SCALE: 3/8" = 1'-0" REF. 1 / A101



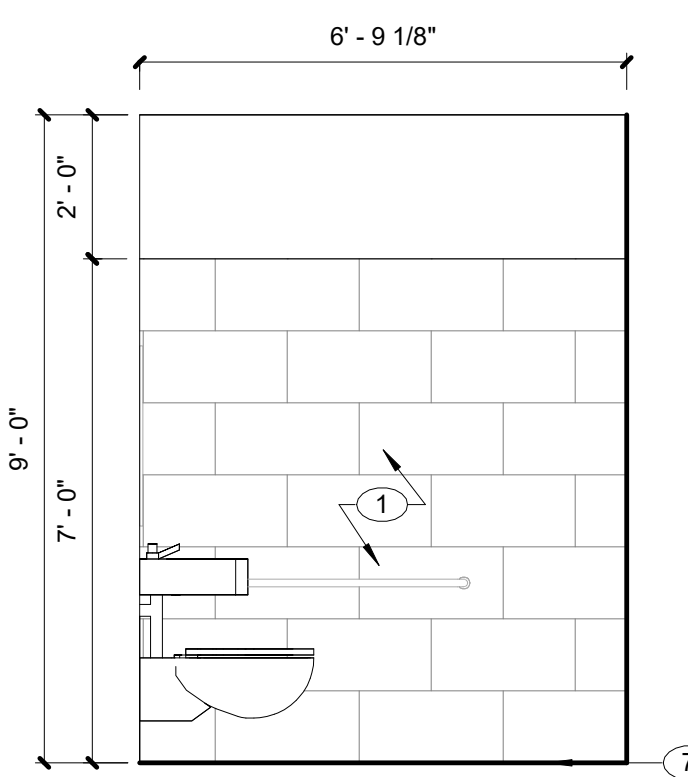
6 INT. ELEV. A107 CORRIDOR NORTH
 SCALE: 3/8" = 1'-0" REF. 1 / A101



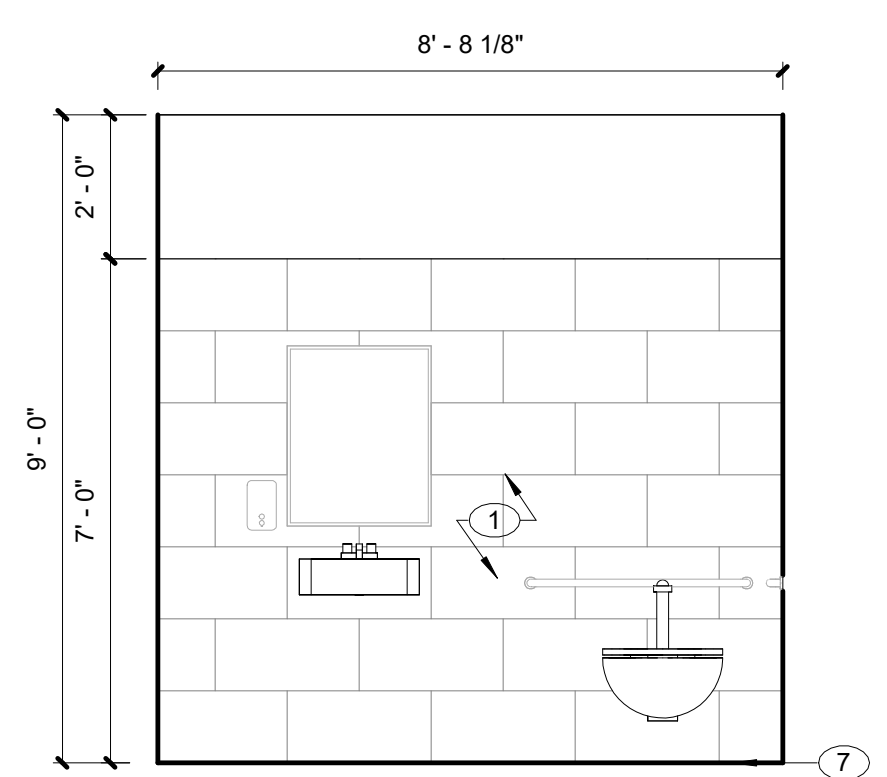
5 INT. ELEV. R.R. SHOWER SIDE
 SCALE: 3/8" = 1'-0" REF. 1 / A101



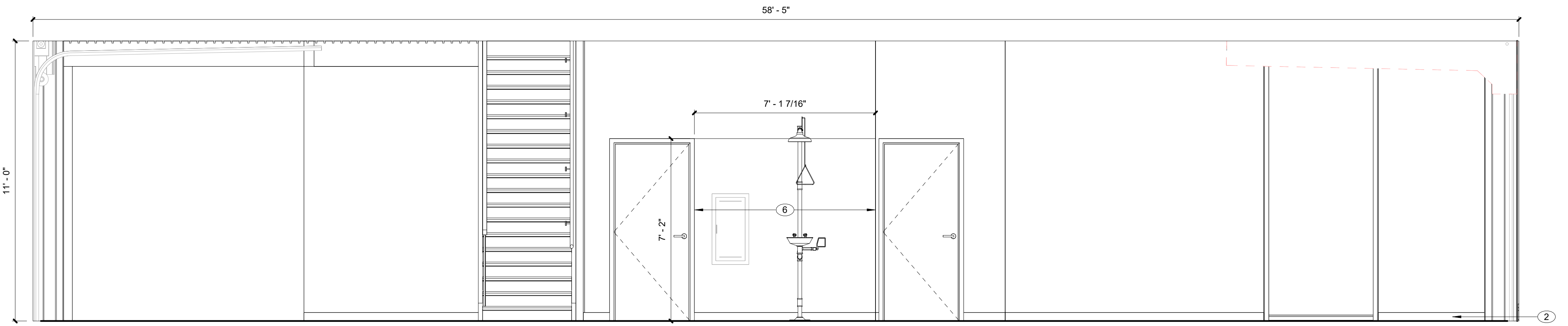
4 INT. ELEV. R.R. SHOWER PLUMBING
 SCALE: 3/8" = 1'-0" REF. 1 / A101



3 INT. ELEV. R.R. SIDE
 SCALE: 3/8" = 1'-0" REF. 1 / A101



2 INT. ELEV. R.R. PLUMBING
 SCALE: 3/8" = 1'-0" REF. 1 / A101



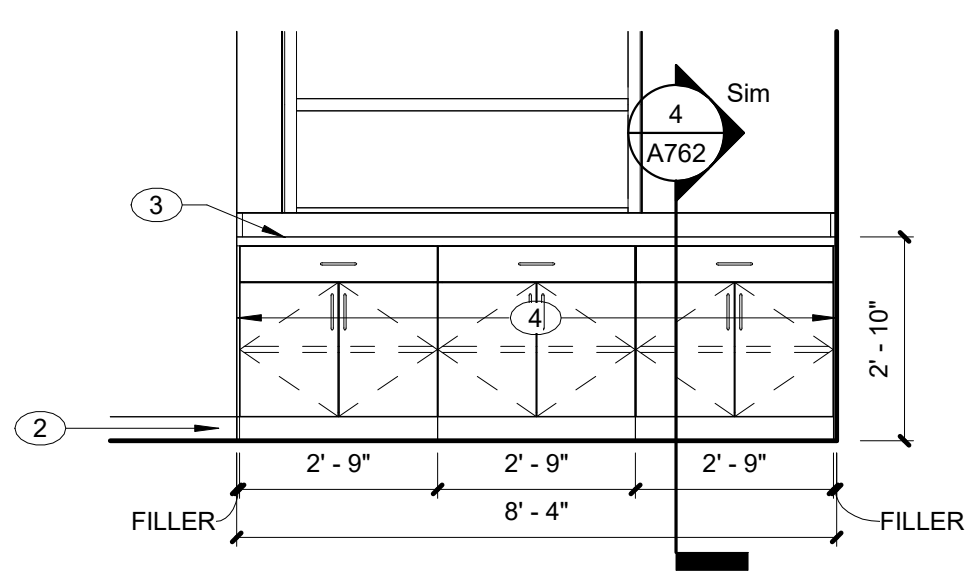
1 INT. ELEV. - OFFICE AREA
 SCALE: 3/8" = 1'-0" REF. 1 / A101

GENERAL CASEWORK NOTES		ALTERNATES
<p>1. FABRICATE WOODWORK/ MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT FOR DESIGNERS APPROVALS SHOP DRAWING SAMPLES OR MANUFACTURER'S LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL SHOW SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH STANDARDS AND DESIGN INTENT.</p> <p>2. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR WOODWORK AND FINISH ITEMS. COORDINATE LOCATION OF BLOCKING WITHIN FRAMED WALLS AS NECESSARY FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.</p> <p>3. FINISH ALL SIDES AND BACK OF MILLWORK/ CASEWORK.</p> <p>4. PROVIDE GROMMETS IN COUNTERTOPS ABOVE ALL ELECTRICAL RECEPTICALS AND TELEPHONE DATA ROUTINGS.</p>	<p>5. ALL PULLS TO BE 4" SATIN NICKEL SOLID WIRE PULL</p> <p>6. PROVIDE LOCKS FOR ALL STORAGE CASE CABINETS/ TALL STORAGE CABINETS, ALL DRAWERS AND DOORS, AND ALL UPPER WALL CABINETS</p> <p>7. ALL PLASTIC LAMINATE SURFACES ON EXTERIOR OF CABINETS SHALL BE A STANDARD COLOR AS LISTED ON THE FINISH SCHEDULE. • PLAM 2 - COUNTERTOPS AND WINDOW SILLS • PLAM 1 - ALL CABINETS AND CASEWORK</p> <p>8. ALL INTERIORS BEHIND DOORS/ DRAWERS AND NOT VISIBLE SHALL BE WHITE. ALL COUNTERTOPS SHALL BE A STANDARD COLOR AS SELECTED BY DESIGNER.</p> <p>9. SEE ELEC. DWGS FOR ELECTRICAL DEVICES.</p> <p>10. INCLUDE FILLERS AS NEEDED.</p>	

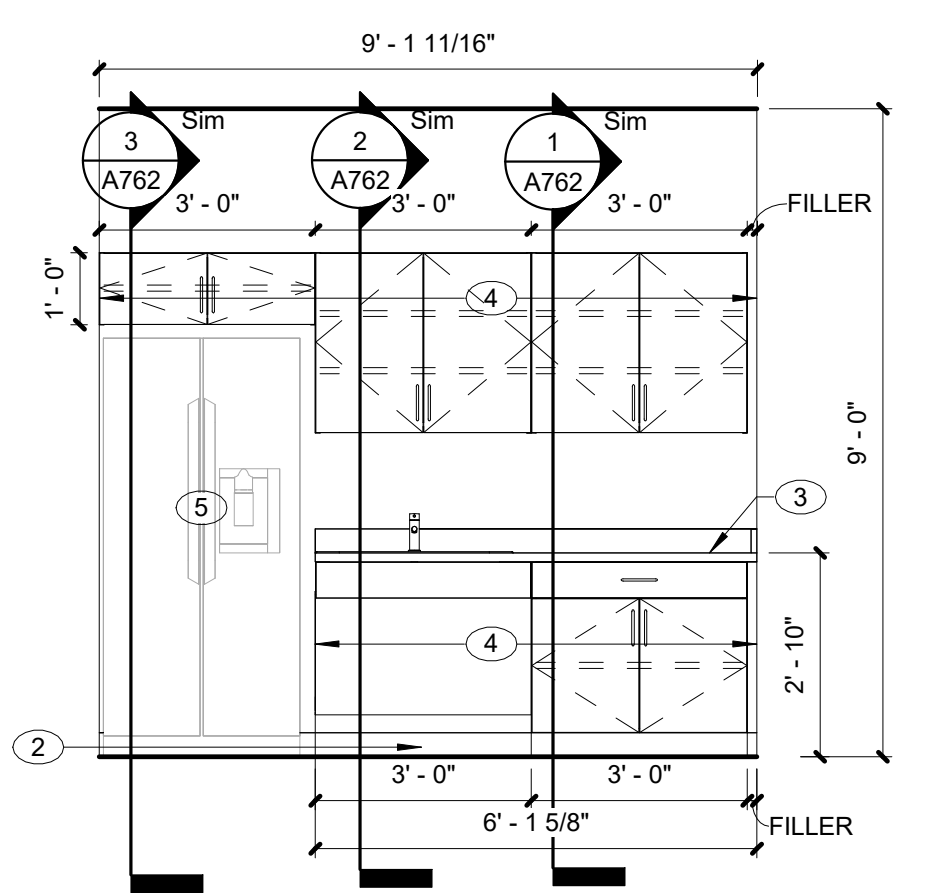
GENERAL NOTES
<p>1. CONTRACTOR TO PROVIDE SCHLUTER TRIM WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.</p> <p>2. DO NOT INSTALL GYPSUM BOARD BEHIND BACKER BOARD WHERE TILE FINISH IS INDICATED.</p> <p>3. CONTRACTOR TO PROVIDE DRYWALL REVEAL JOINT WHERE DRYWALL MEETS DISSIMILAR MATERIALS.</p> <p>4. IF ONLY PAINT IS INDICATED AS THE FINISH, REFER TO ARCHITECTURAL FLOOR PLANS FOR SUBSTRATE INFORMATION.</p> <p>5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.</p> <p>6. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.</p> <p>7. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE PRIMED AND PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.</p> <p>8. ALL WALLS AND COLUMNS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.</p>

ELEVATION NOTES - INTERIOR

1. WALL TILE, WT-1 AT THIS LOCATION. 7'-0" A.F.F. FINISH WITH SCHLUTER JOLLY EDGE TRIM
2. WALL BASE, RB-1, REFER TO FINISH LEGEND.
3. SOLID SURFACE COUNTERTOP, SS-1 WITH 4" HIGH BACKPLASH AT THIS LOCATION. REFER TO FINISH LEGEND.
4. PLASTIC LAMINATE CASEWORK, PL-1 AT THIS LOCATION. REFER TO FINISH LEGEND.
5. SPACE FOR OWNER PROVIDED. CONTRACTOR INSTALLED APPLIANCE.
6. FIBERGLASS REINFORCED PANELS, WP-1 AT THIS LOCATION. INSTALL FROM TOP OF BASE TO ALIGN WITH DOOR FRAME.
7. 1/4" BRUSHED NICKEL FINISH, SCHLUTER TRIM - FLOOR/WALL TRANSITION.
8. WALL TILE, WT-1 AT THIS LOCATION. ALIGN WITH TOP OF DOOR FRAME. FINISH EDGES WITH SCHLUTER JOLLY TRIM.
9. ACCENT PAINT, PT-2 AT THIS LOCATION. REFER TO FINISH LEGEND.
10. ACCENT PAINT, PT-3 AT THIS LOCATION. REFER TO FINISH LEGEND.
11. ACCENT PAINT, PT-4 AT THIS LOCATION. REFER TO FINISH LEGEND.



2 CSWK - A105 CONF. RM. SOUTH
 SCALE: 3/8" = 1'-0" REF. 1 / A101



1 CSWK - A109 BREAK ROOM NORTH
 SCALE: 3/8" = 1'-0" REF. 1 / A101



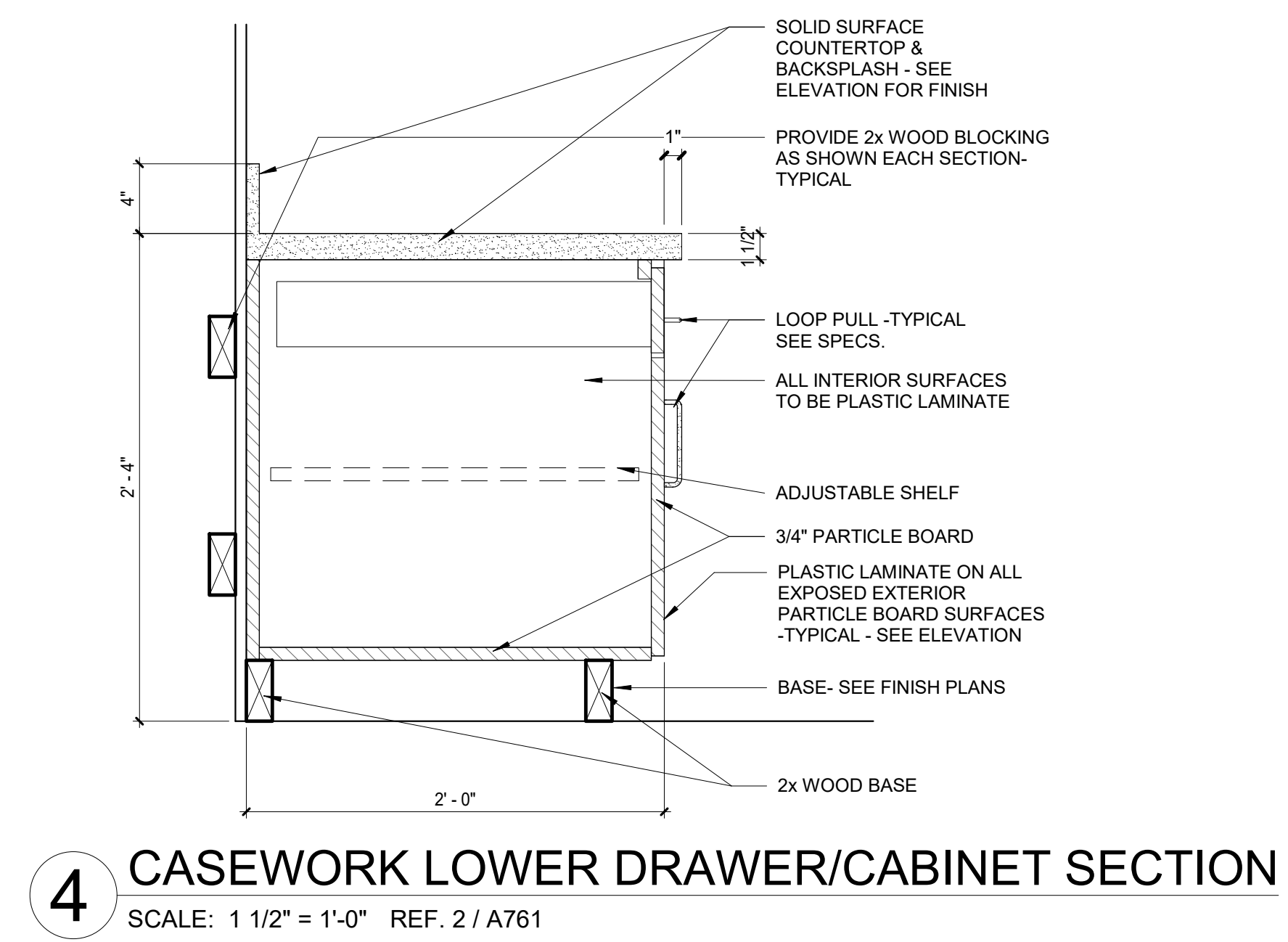
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 PROJECT: #23122
 DATE: 04/22/2024
 DRAWN BY: Author

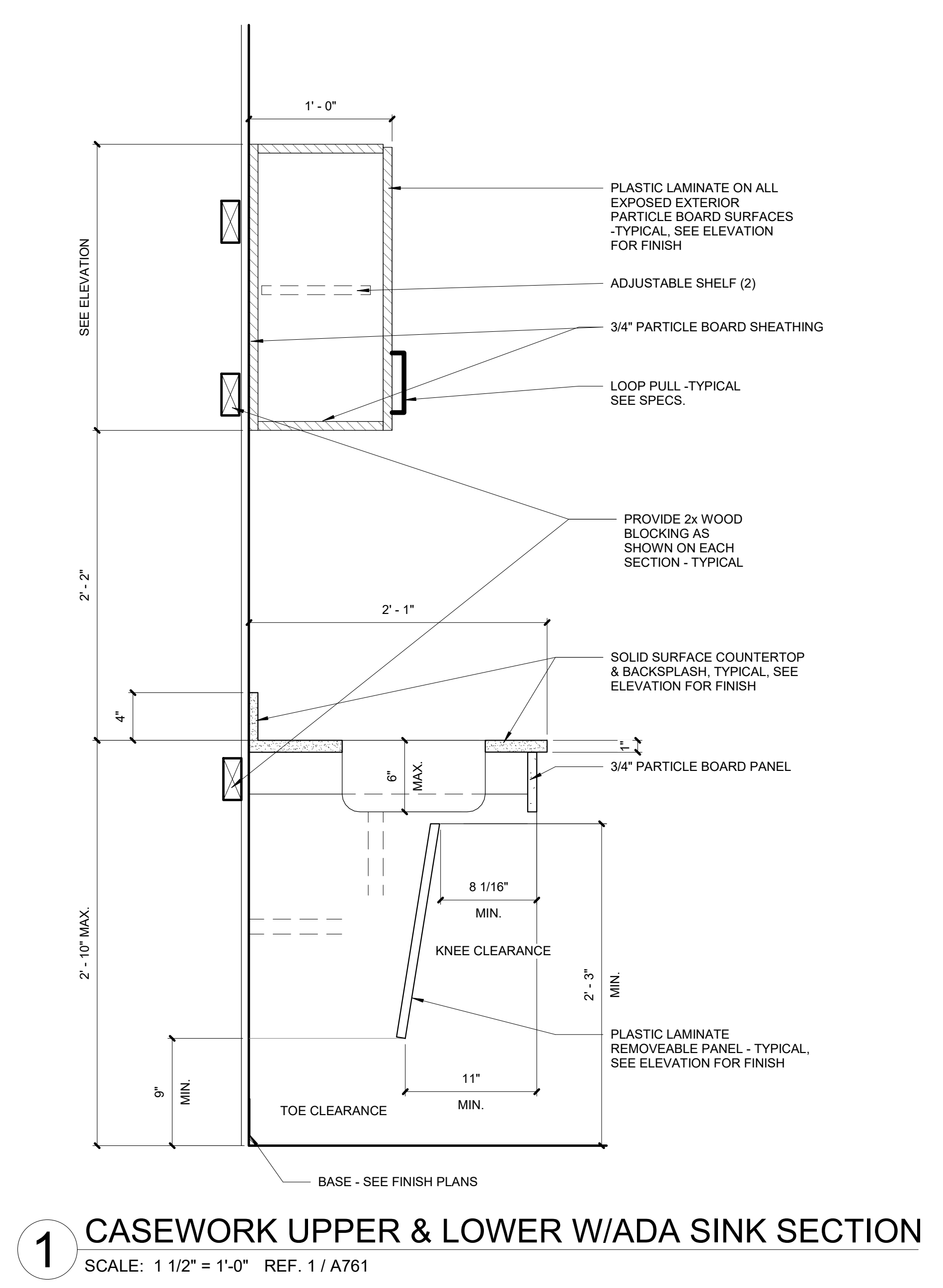
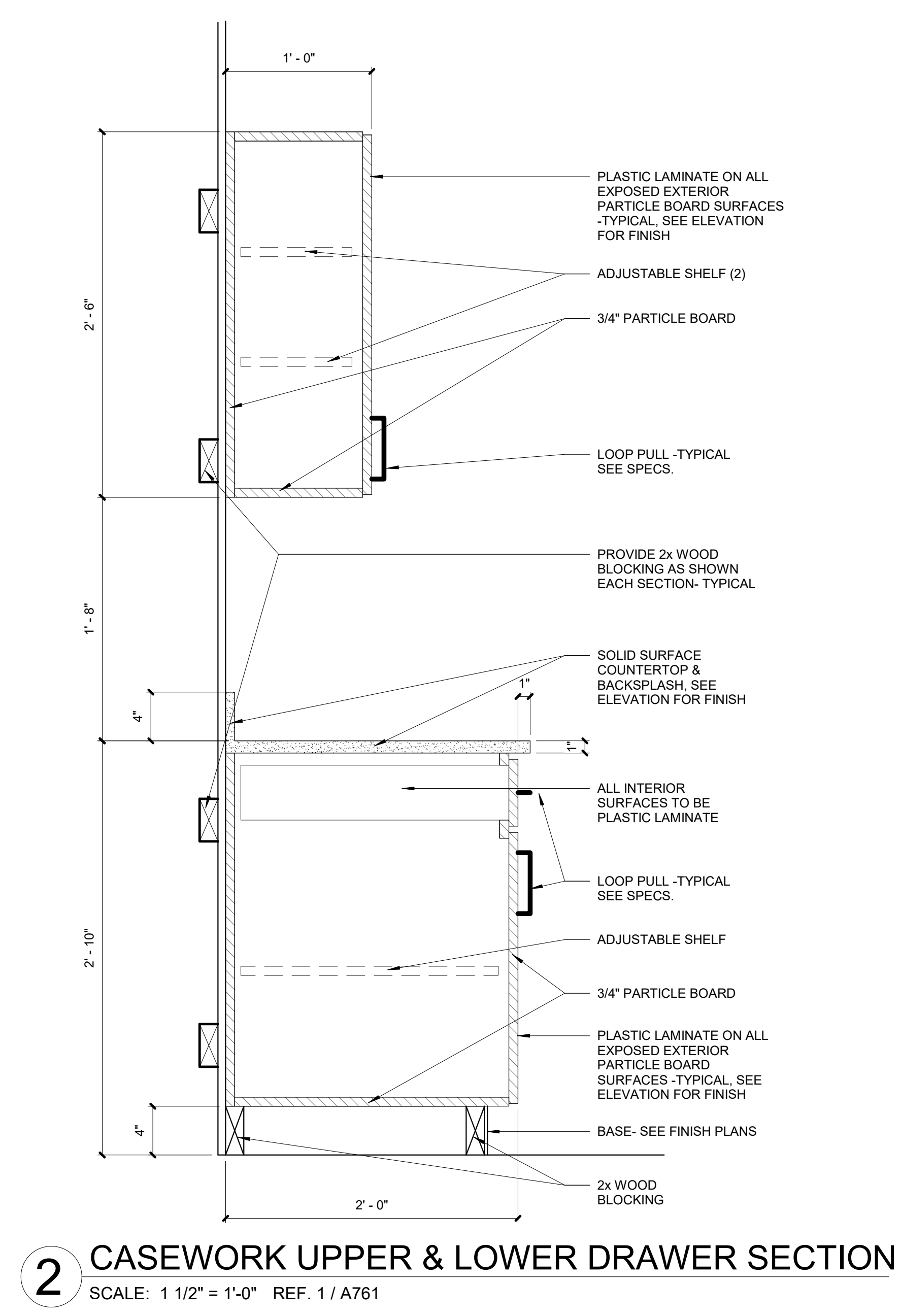
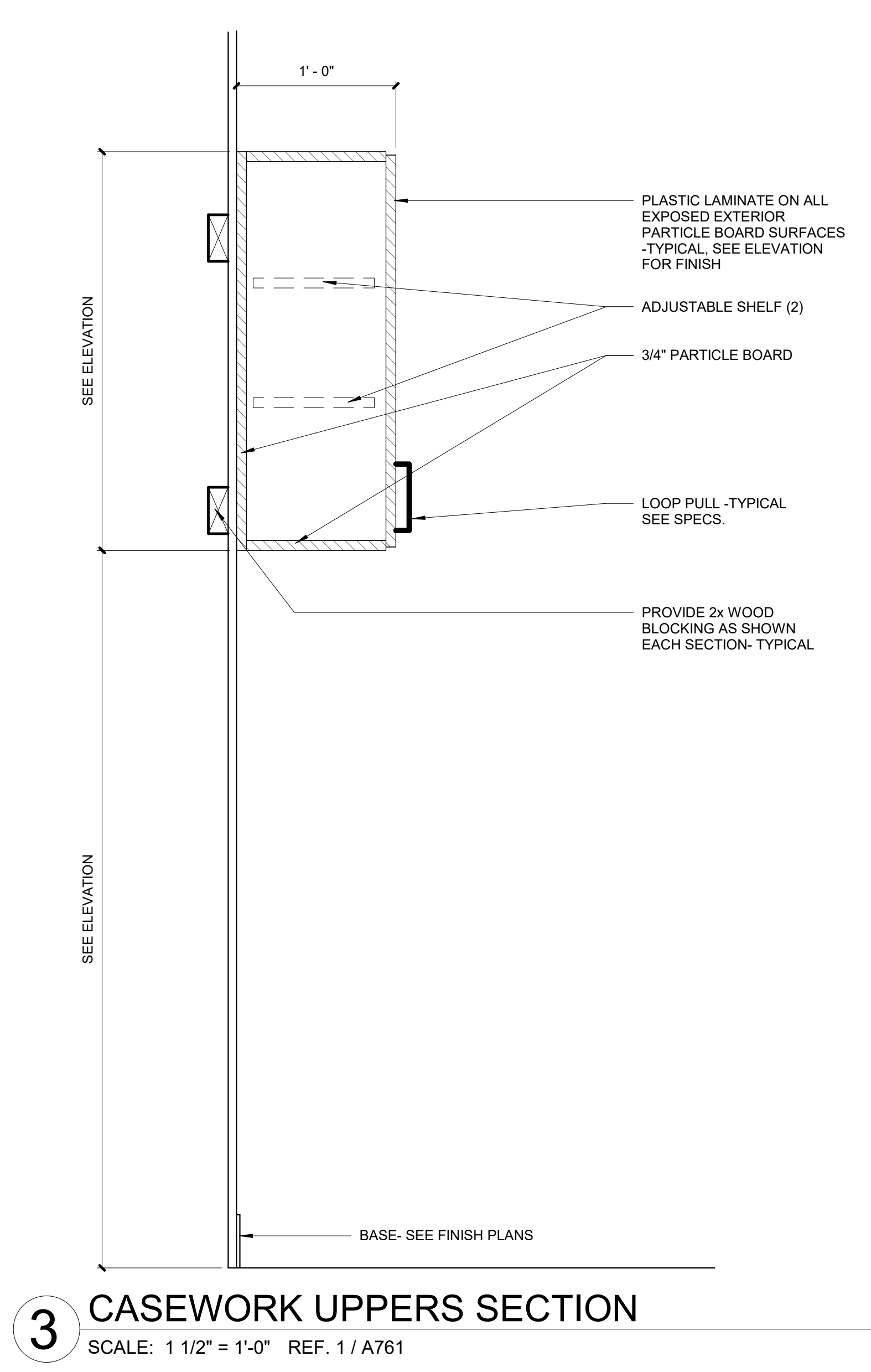
CASEWORK ELEVATIONS

GENERAL CASEWORK NOTES		ALTERNATES
1. FABRICATE WOODWORK/MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT FOR DESIGNERS APPROVALS SHOP DRAWING SAMPLES OR MANUFACTURER'S LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL SHOW SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH STANDARDS AND DESIGN INTENT.	5. ALL PULLS TO BE 4" SATIN NICKEL SOLID WIRE PULL	
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3. FINISH ALL SIDES AND BACK OF MILLWORK/ CASEWORK.	7. ALL PLASTIC LAMINATE SURFACES ON EXTERIOR OF CABINETS SHALL BE A STANDARD COLOR AS LISTED ON THE FINISH SCHEDULE: • PLAM 2 - COUNTERTOPS AND WINDOW SILLS • PLAM 1 - ALL CABINETS AND CASEWORK	
4. PROVIDE GROMMETS IN COUNTERTOPS ABOVE ALL ELECTRICAL RECEPTICALS AND TELEPHONE DATA ROUTINGS.	8. ALL INTERIORS BEHIND DOORS/ DRAWERS AND NOT VISIBLE SHALL BE WHITE. ALL COUNTERTOPS SHALL BE A STANDARD COLOR AS SELECTED BY DESIGNER.	
	9. SEE ELEC. DWGS FOR ELECTRICAL DEVICES.	
	10. INCLUDE FILLERS AS NEEDED.	

GENERAL NOTES
1. CONTRACTOR TO PROVIDE SCHLUTER TRIM WHERE TILE MEETS DISSIMILAR MATERIALS. REFER TO INTERIOR ELEVATIONS FOR FURTHER DETAILS.
2. DO NOT INSTALL GYPSUM BOARD BEHIND BACKER BOARD WHERE TILE FINISH IS INDICATED.
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5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS INDICATED ON THE FINISH PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS AND DESIGNERS.
6. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.
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8. ALL WALLS AND COLUMNS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.



ELEVATION NOTES - INTERIOR
1. WALL TILE, WT-1 AT THIS LOCATION. 7'-0" A.F.F. FINISH WITH SCHLUTER JOLLY EDGE TRIM.
2. WALL BASE, RB-1. REFER TO FINISH LEGEND.
3. SOLID SURFACE COUNTERTOP, SS-1 WITH 4" HIGH BACKSPLASH AT THIS LOCATION. REFER TO FINISH LEGEND.
4. PLASTIC LAMINATE CASEWORK, PL-1 AT THIS LOCATION. REFER TO FINISH LEGEND.
5. SPACE FOR OWNER PROVIDED. CONTRACTOR INSTALLED APPLIANCE.
6. FIBERGLASS REINFORCED PANELS, WP-1 AT THIS LOCATION. INSTALL FROM TOP OF BASE TO ALIGN WITH DOOR FRAME.
7. 1/4" BRUSHED NICKEL FINISH, SCHLUTER TRIM - FLOOR/WALL TRANSITION.
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10. ACCENT PAINT, PT-3 AT THIS LOCATION. REFER TO FINISH LEGEND.
11. ACCENT PAINT, PT-4 AT THIS LOCATION. REFER TO FINISH LEGEND.

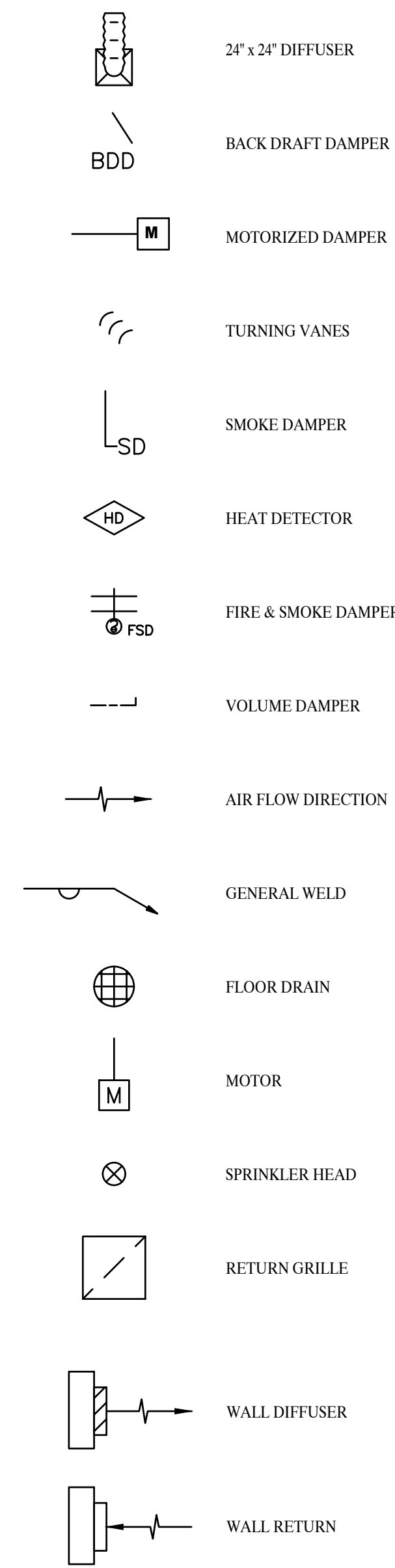


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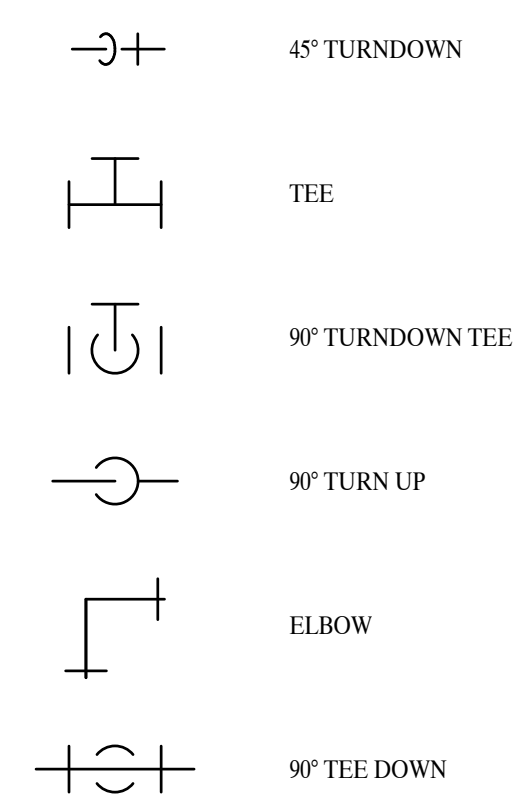
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DATE: 04/22/2024
DRAWN BY: Author

CASEWORK SECTIONS

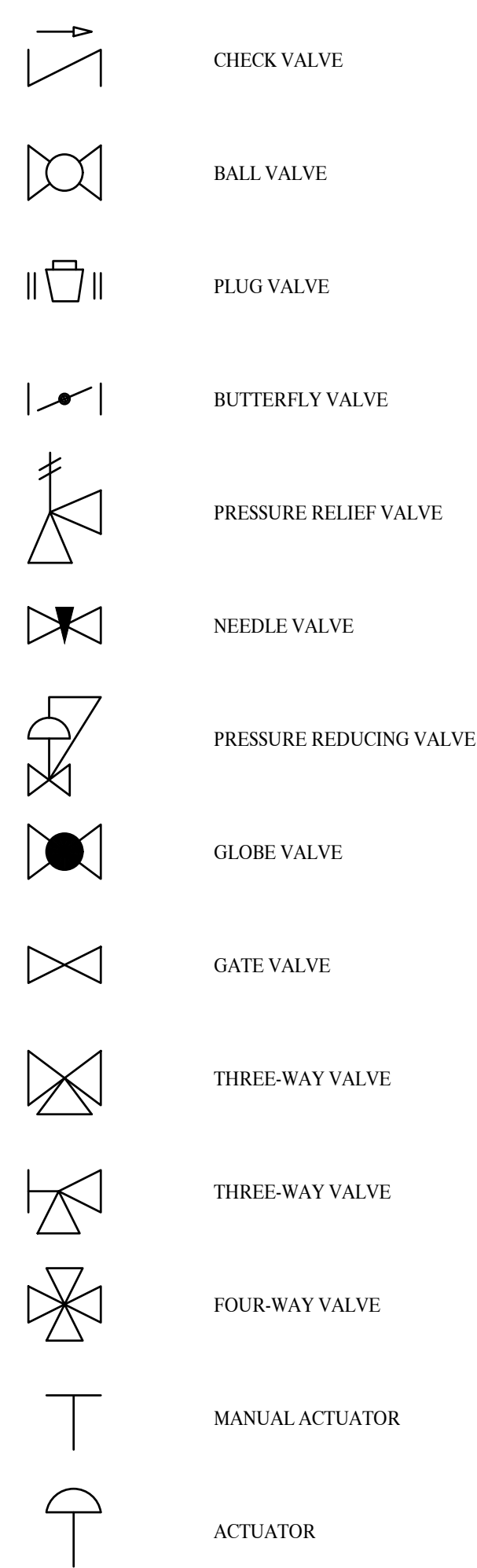
MECHANICAL SYMBOLOGY



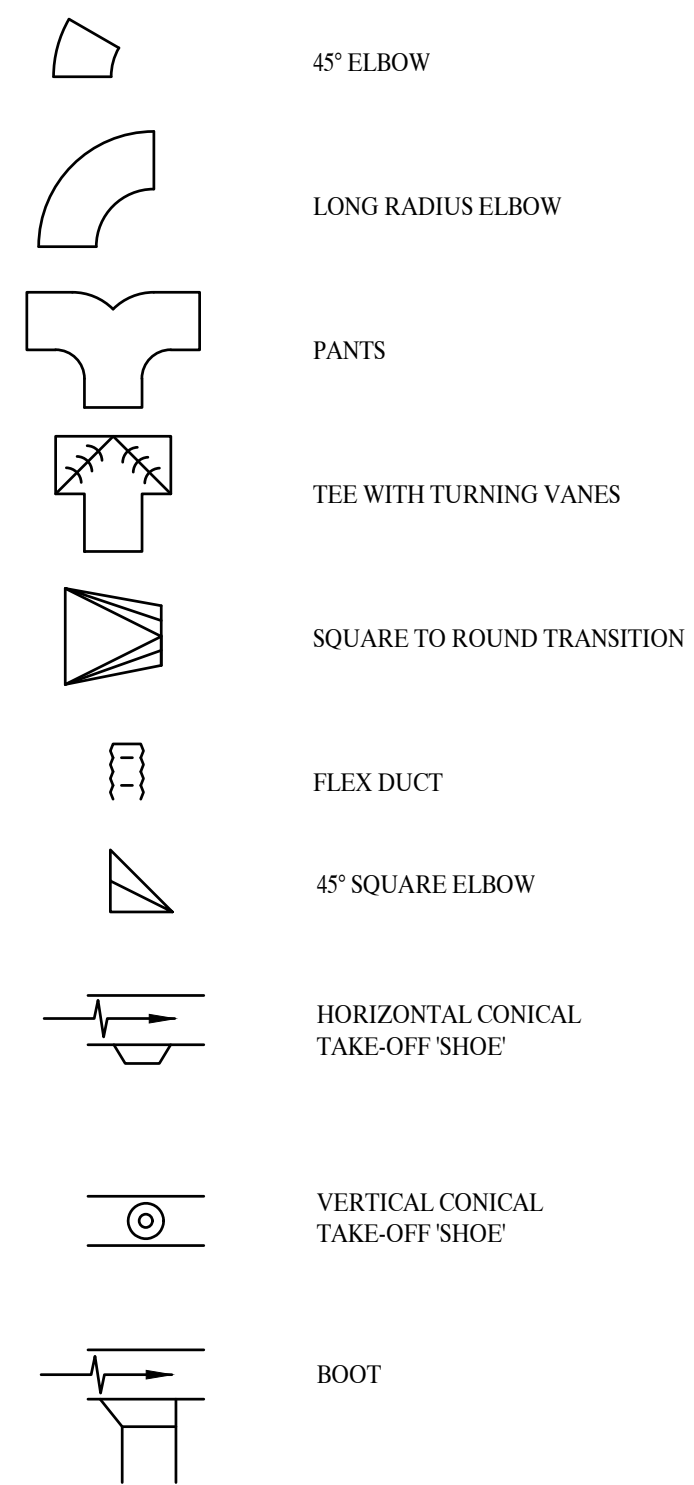
PIPING SYMBOLOGY



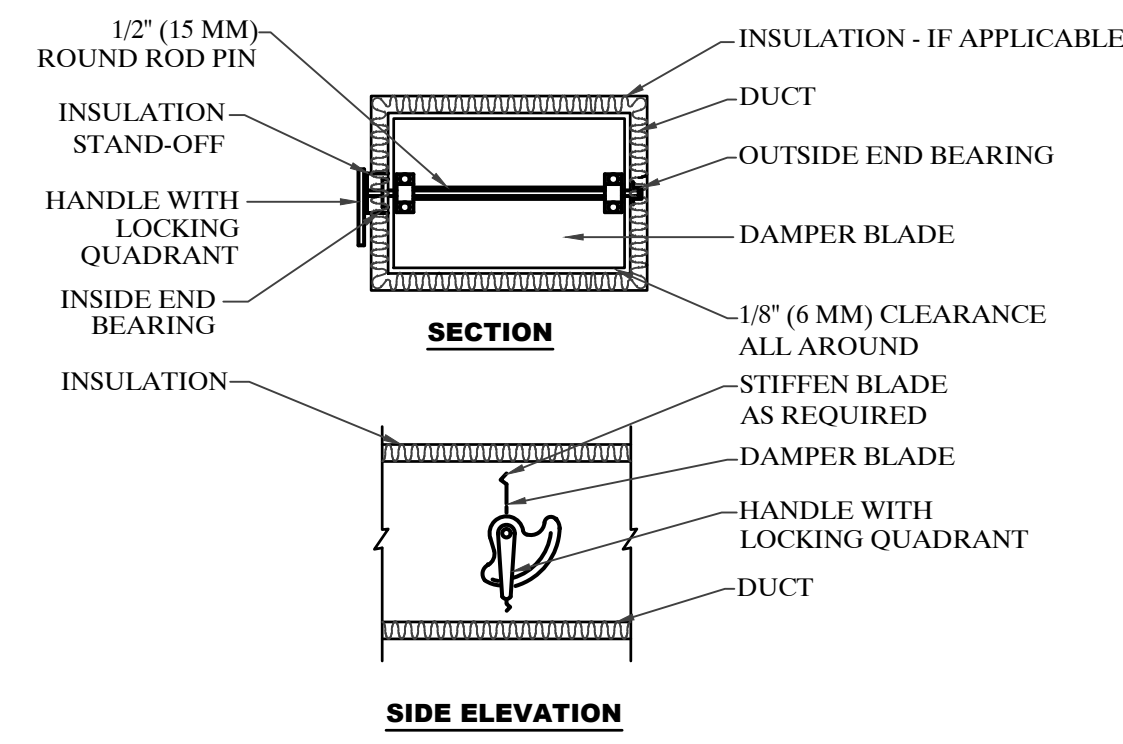
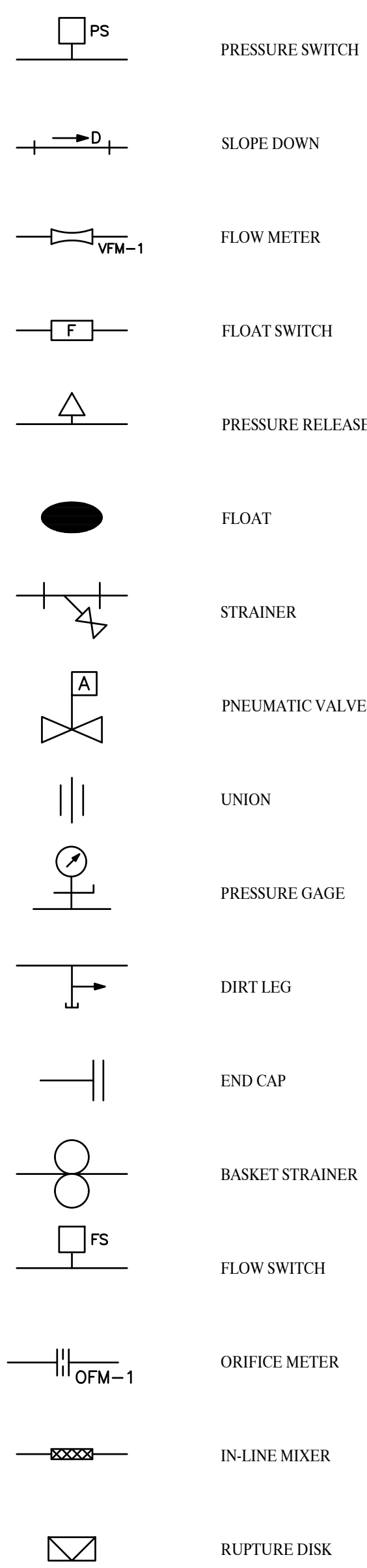
VALVES



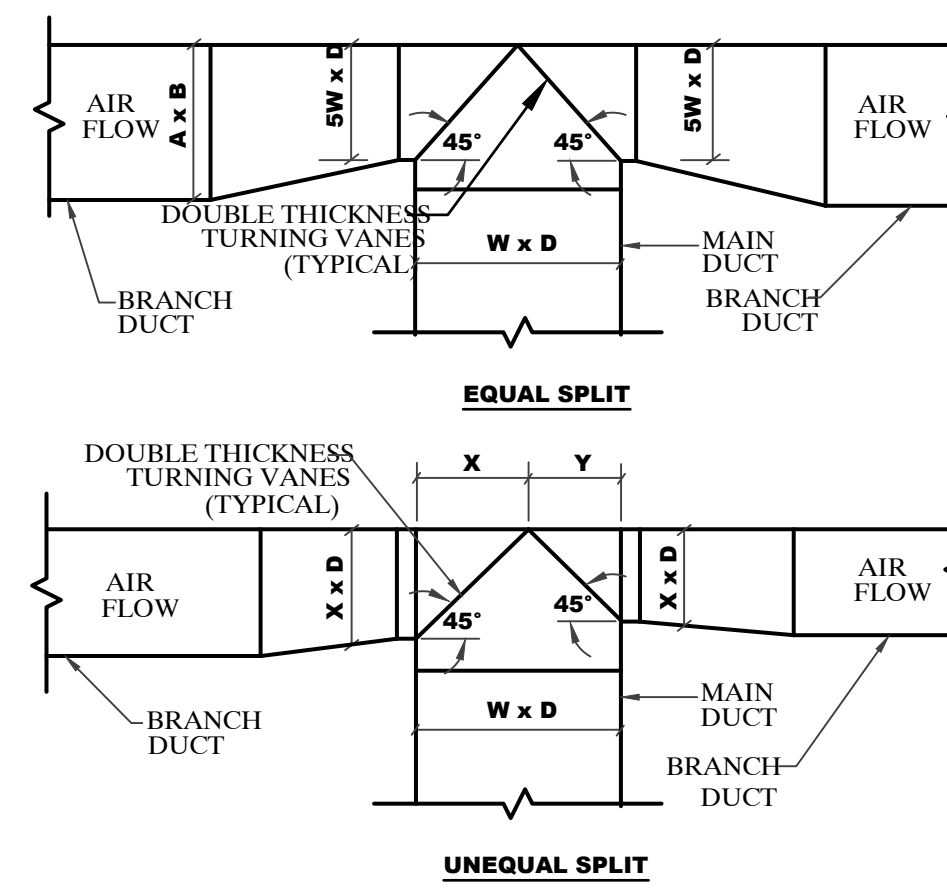
DUCT SYMBOLOGY



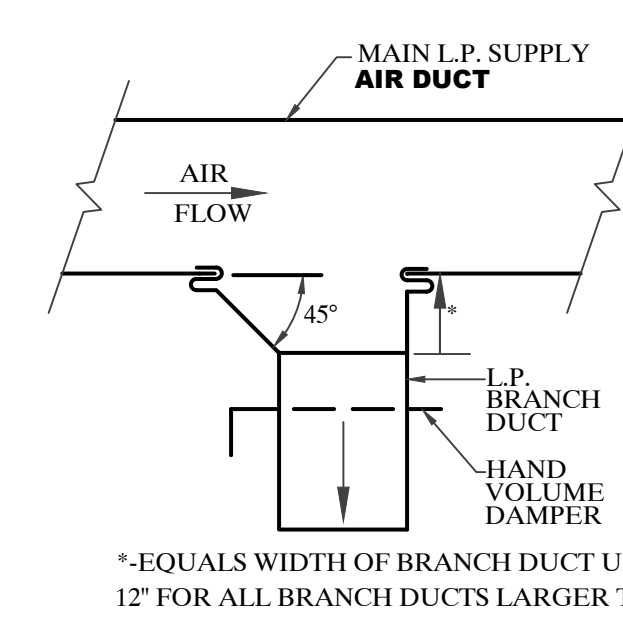
PIPING SYMBOLS



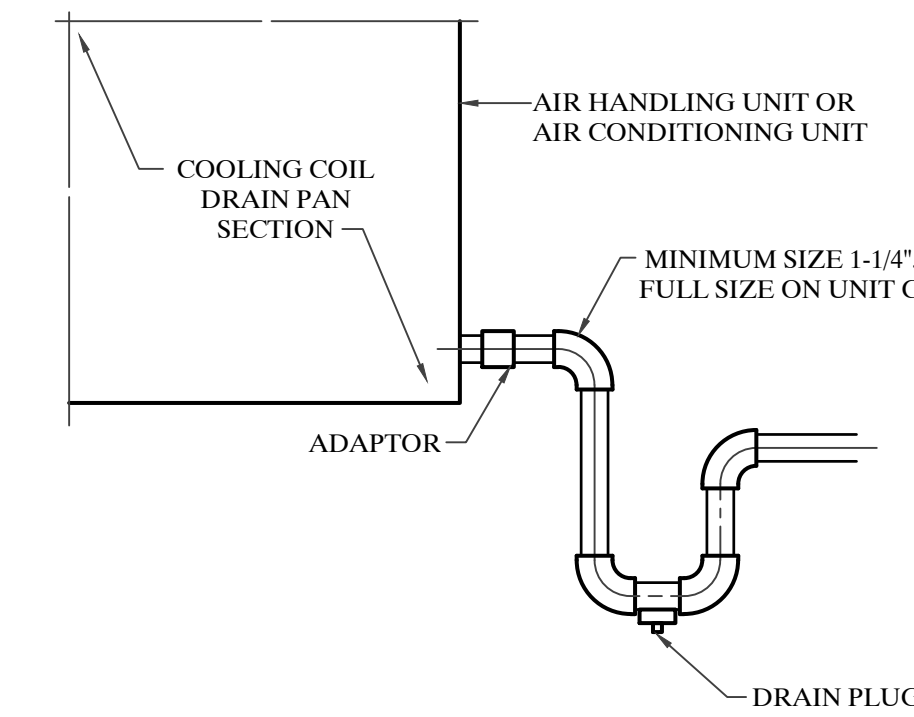
A VOLUME DAMPER DETAIL
SCALE: NTS



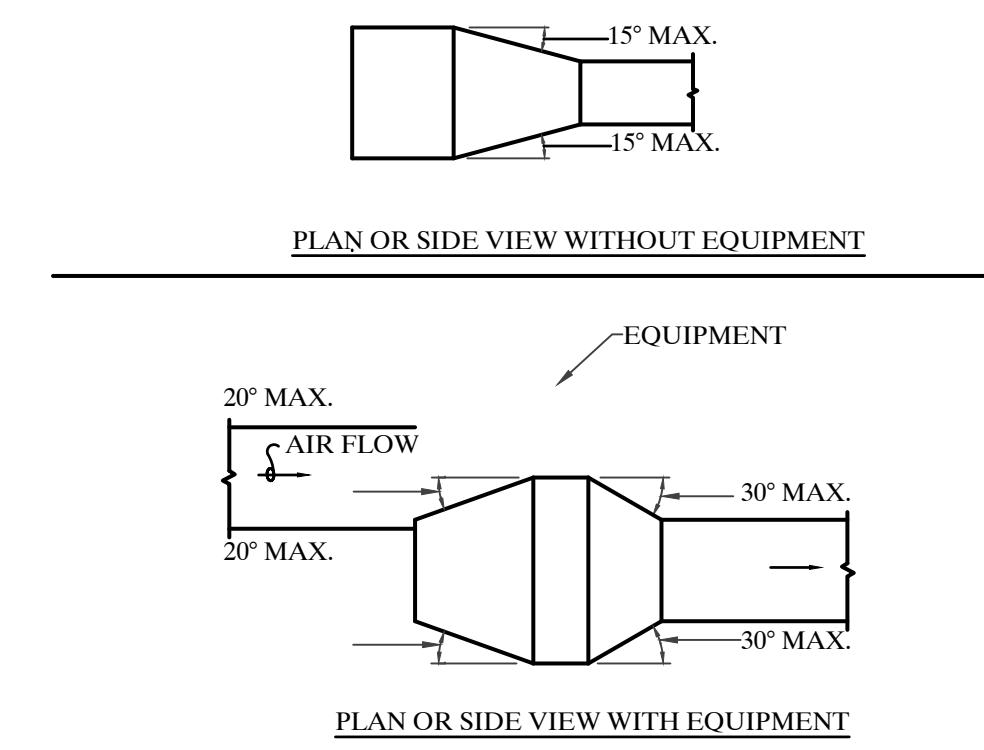
E DUCT DETAIL
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B TYPICAL LOW PRESSURE BRANCH
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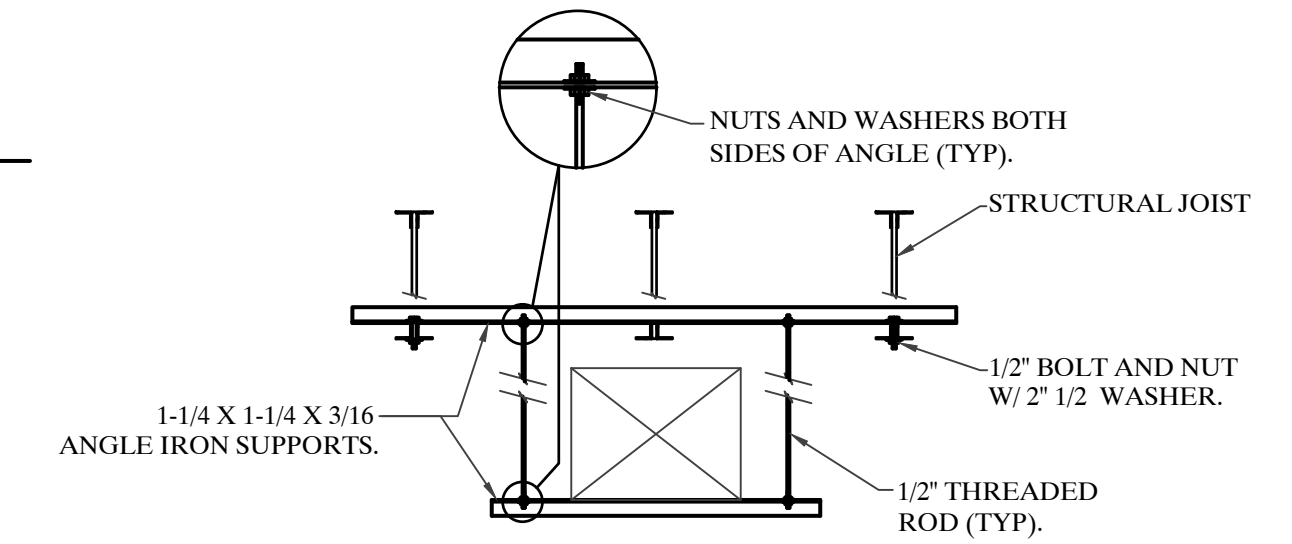


G CONDENSATE DRAIN DETAIL
SCALE: NTS

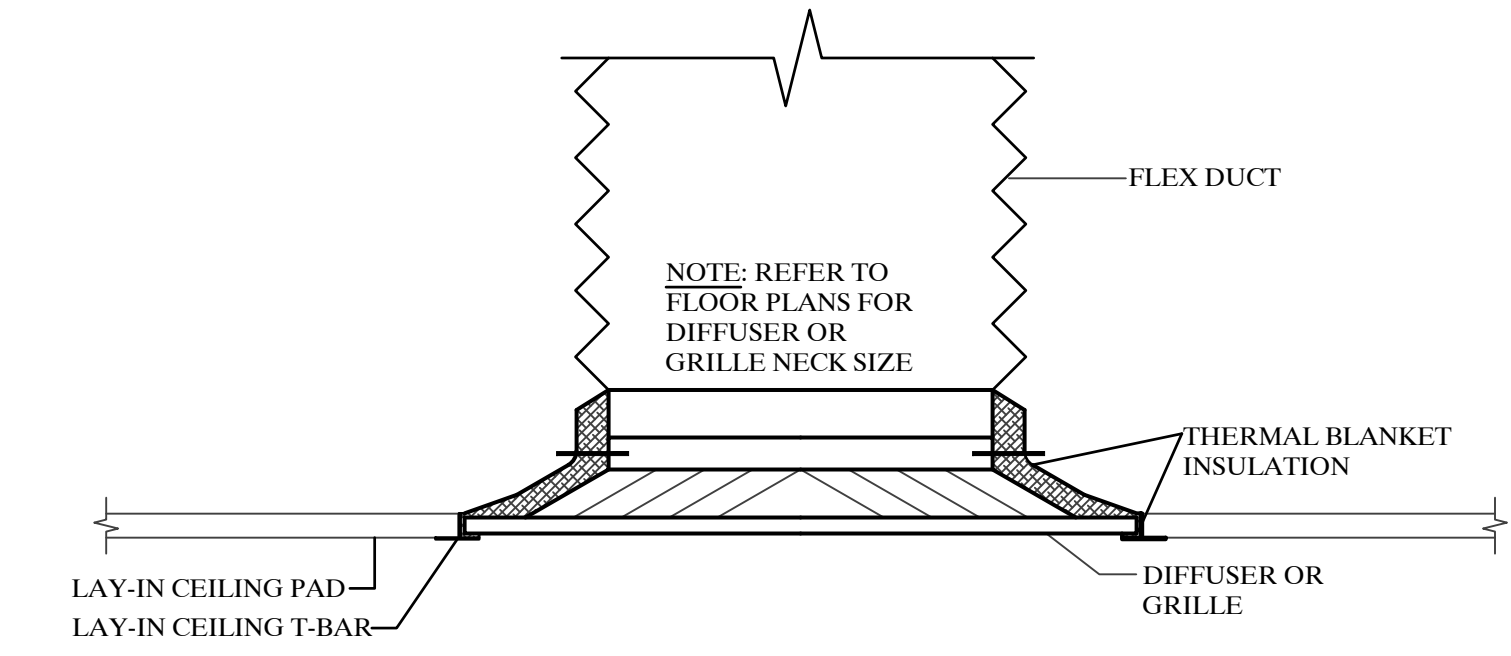


C TYPICAL DUCTWORK TRANSITIONS
SCALE: NTS

NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

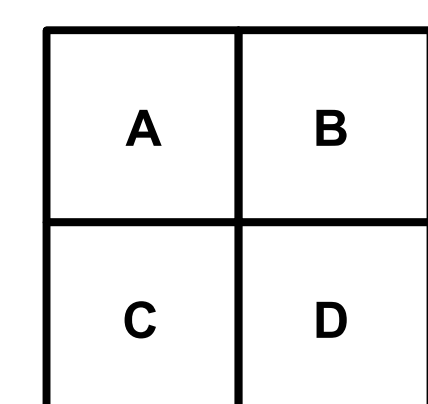


D DUCT HANGER DETAIL
SCALE: NTS



M DIFFUSER INSTALLATION DETAIL
SCALE: NTS

DRAWING INDEX	
DRAWING No.	DRAWING TITLE
M001	MECHANICAL SYMBOLS
M002	MECHANICAL SCHEDULES & SPECIFICATIONS
M101	FIRST FLOOR - MECHANICAL PLAN



REVISIONS:	Date	Disc.

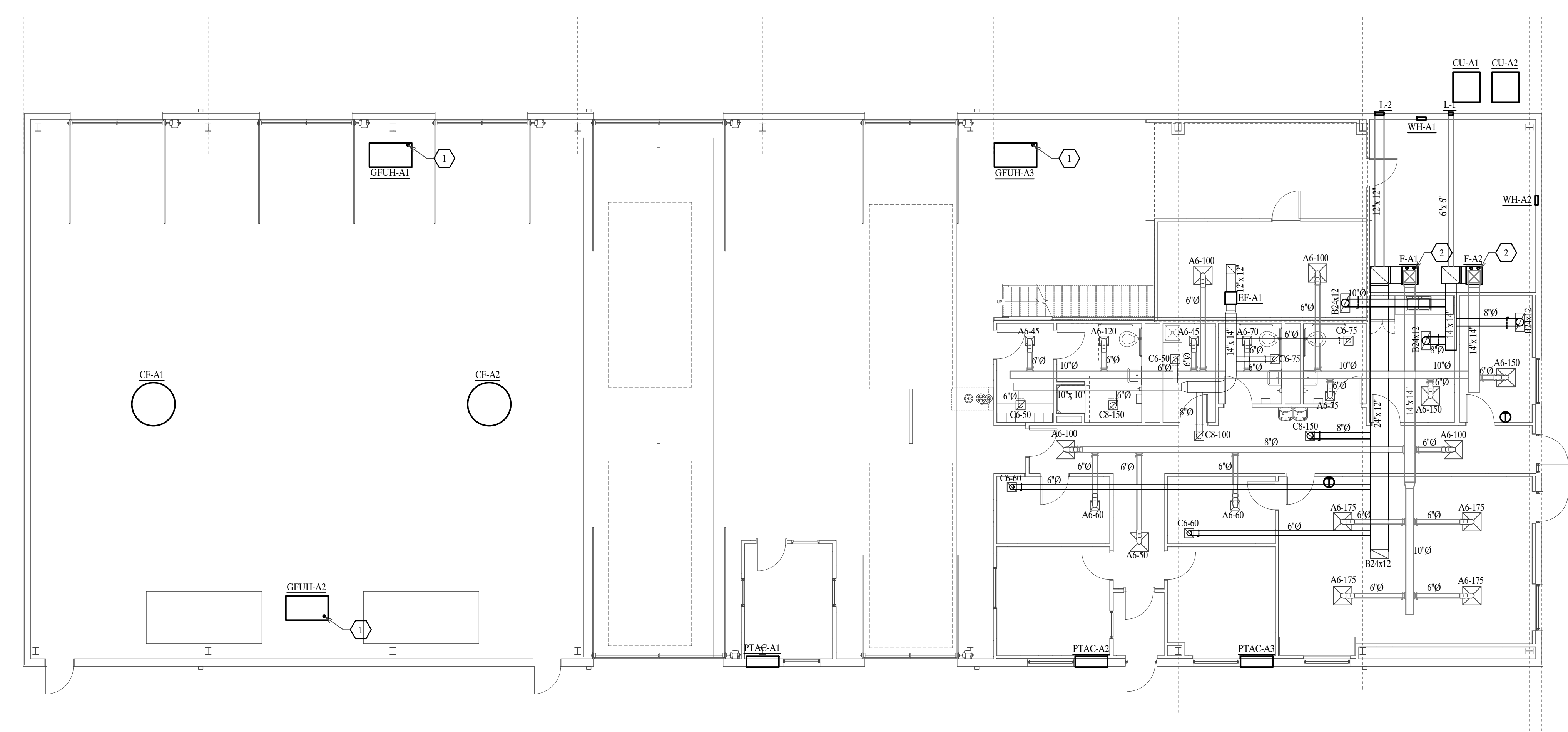
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SHEET NAME
FIRST FLOOR MECHANICAL PLAN

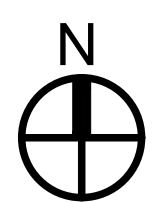
M101

- KEYED PLAN NOTES:**
1. INSTALL OUTSIDE AIR AND FLUE VENT FROM PROPELLER UNIT HEATER. ROUTE TO ROOF.
 2. INSTALL OUTSIDE AIR AND FLUE VENT FROM FURNACE. ROUTE TO ROOF.



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

A	B
C	D



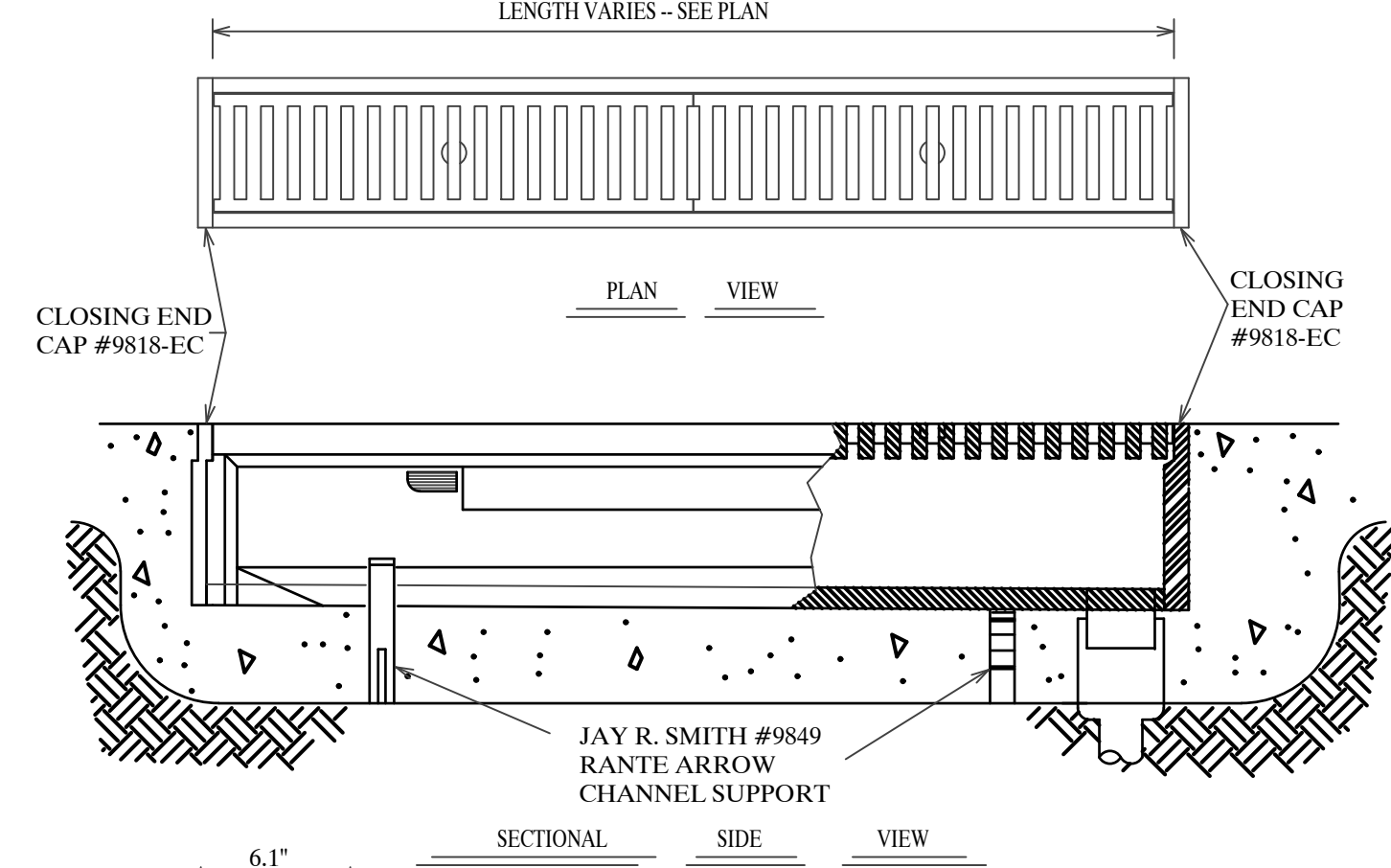
GENERAL NOTES

- SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
- COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- COORDINATE LOCATION OF PLUMBING SYSTEMS TO AVOID INTERFERENCE WITH LOCATION OF STRUCTURE AND OTHER BUILDING SYSTEMS. NOTIFY OWNER PRIOR TO CONSTRUCTION OF CONFLICTS, WHICH CANNOT BE RESOLVED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST QUALITY IN EVERY RESPECT. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE LATEST DESIGN, AND FREE OF DEFECTS. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST AMENDED EDITION OF ALL APPLICABLE STANDARDS, INCLUDING BUT NOT LIMITED TO, SMACNA, UL, AND NEMA STANDARDS.
- OBTAIN ALL EQUIPMENT OF THE SAME TYPE FROM THE SAME MANUFACTURER.
- WATER QUALITY TESTING IS REQUIRED.
- DISRUPTIONS TO EXISTING SERVICES MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER AND THE OWNER NO LESS THAN 10 BUSINESS DAYS IN ADVANCE.
- INSTALL DIELECTRIC FITTINGS AS REQUIRED.
- SEE OTHER SECTIONS FOR DETAILS ON EXCAVATION REQUIREMENTS.
- DRAWINGS ARE ONLY SCHEMATIC AND DIAGRAMMATIC IN NATURE. INSTALL PIPING AS GENERALLY INDICATED.
- INSTALL VALVES AT ALL LOW POINT IN SYSTEM.
- INSTALL AIR RELIEF VALVES AT ALL HIGH POINTS IN THE SYSTEM.
- PROVIDE O&M MANUALS FOR ALL EQUIPMENT.
- MINIMUM DESIGN WORKING PRESSURE SHALL BE 125 PSIG FOR ALL SUPPLY PIPING.
- PROTECT ALL EQUIPMENT AND MATERIALS DURING WHILE IN STORAGE AND DURING CONSTRUCTION. REPLACE ANY DAMAGED ITEMS. DO NOT ATTEMPT TO REPAIR.
- INSTALL FORCE MAINS AT ELEVATIONS INDICATED.
- PROVIDE FINAL CONNECTIONS TO EQUIPMENT WITH SHUT-OFF VALVES, BALANCE REGULATORS, UNIONS, ETC. AS SPECIFIED AND AS REQUIRED BY EQUIPMENT OPERATION. COORDINATE WITH OWNER'S REPRESENTATIVE FOR EQUIPMENT IDENTIFICATION, CONNECTION REQUIREMENTS, EXACT LOCATIONS AND MOUNTING HEIGHTS.

THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES INVOLVED IN ACCOMPLISHING THE NEW WORK. PROBLEMS, DISCREPANCIES OR INFORMATION NEEDED SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO SUBMITTING A PROPOSAL. THE SUBMISSION OF PROPOSAL WILL INDICATE THAT THE CONTRACTOR HAS FULLY UNDERSTOOD AND HAS INCLUDED ALL COSTS FOR THIS PROJECT.

NOTE:

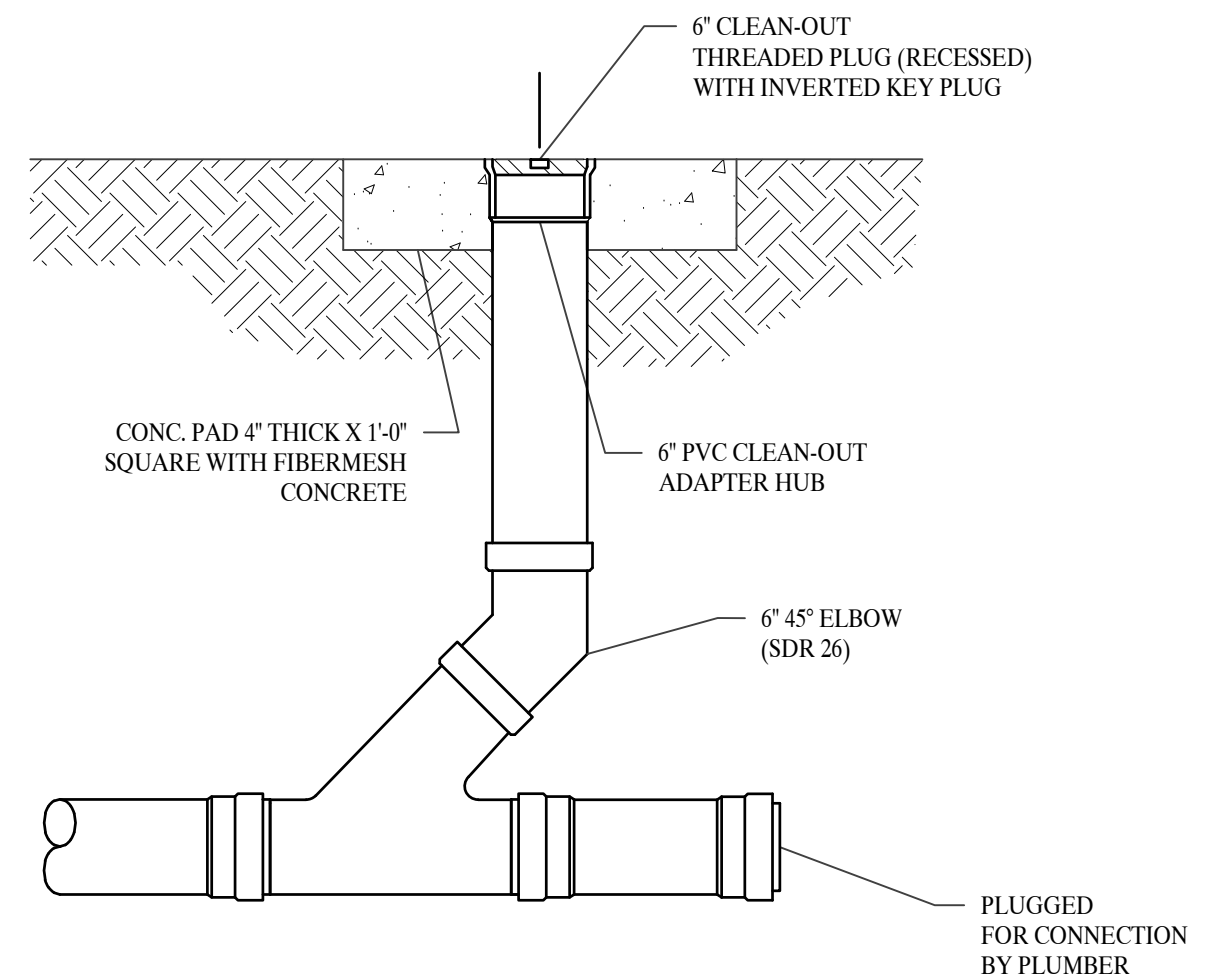
JAY R. SMITH #9818 SERIES MODULAR PRECAST POLYMER CONCRETE ON 12" AND 6" LENGTHS OF INTERLOCKING DESIGN WITH INTEGRAL GALVANIZED PROTECTIVE RAIL EDGE, WITH RADIUS INTERIOR, WITH BUILT-IN .6% SLOPE PER CHANNEL, WITH DUCTILE IRON #9870-461 MILD DUCTILE IRON SLOTTED GRATES WITH LOCKING DEVICES WITH CLOSING END CAPS ON EACH END, WITH 4" VERTICAL PVC BOTTOM OUTLET CONNECTION, WITH #9849 RANTE ARROW CHANNEL SUPPORTS, WITH P-J EPOXY JOINT COMPOUND SEALANT. REFER TO THE DRAWINGS FOR THE VARIOUS LENGTHS. OR APPROVED EQUAL PLUMBING CONTRACTOR TO FURNISH PLYWOOD INSERTS 3/4" THICK x 4-15/16" WIDE IN GRATE OPENING BEFORE THE POUR TO PREVENT THE COMPRESSION OF THE CHANNEL. LENGTH VARIES - SEE PLAN



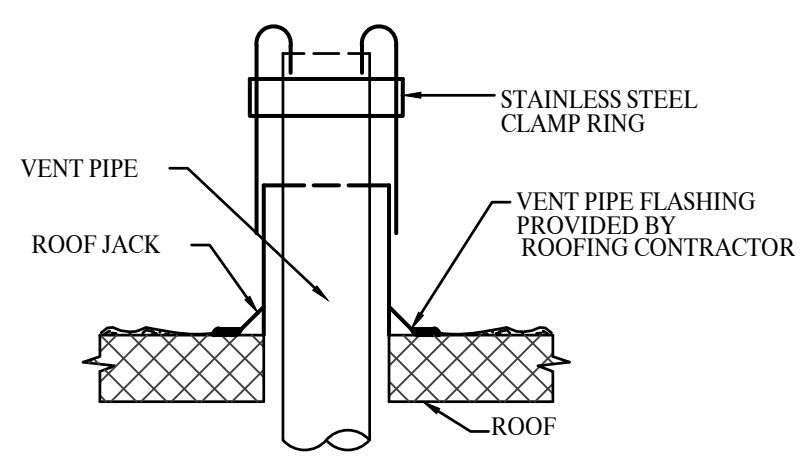
NOTICE:
JAY R. SMITH POLYMER CAST CHANNELS #9818 SERIES (3.28' AND 1.64') WITH DUCTILE IRON SLOTTED CLASS I LOAD RATED GRATES.

M TRENCH DRAIN DETAIL
SCALE: NTS

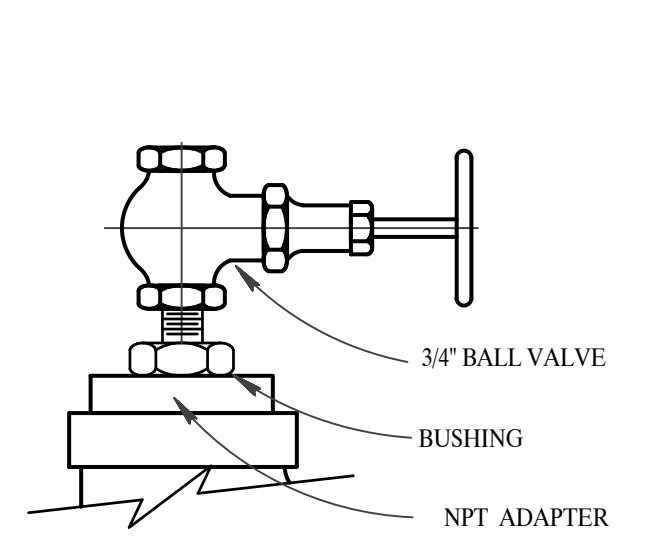
NATURAL GAS LOAD	
TAG	BTU/HR
GFUH-1, 2, 3 (400,000 EACH)	1,200,000
F-A1, A2 (60,000 EACH)	60,000
BOILER	-
-	-
TOTAL	3,320,000



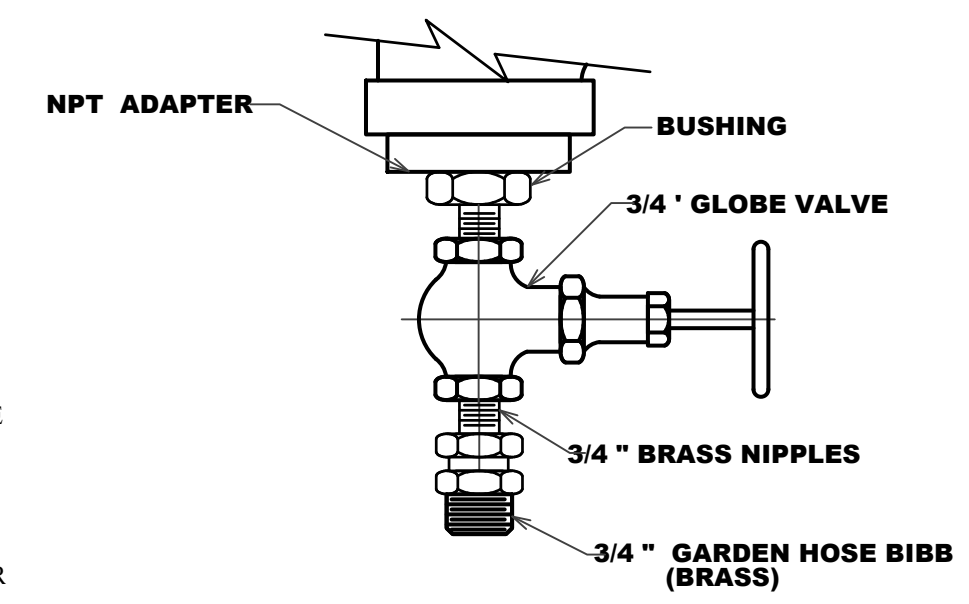
A TYPICAL CLEAN OUT DETAIL
SCALE: NTS



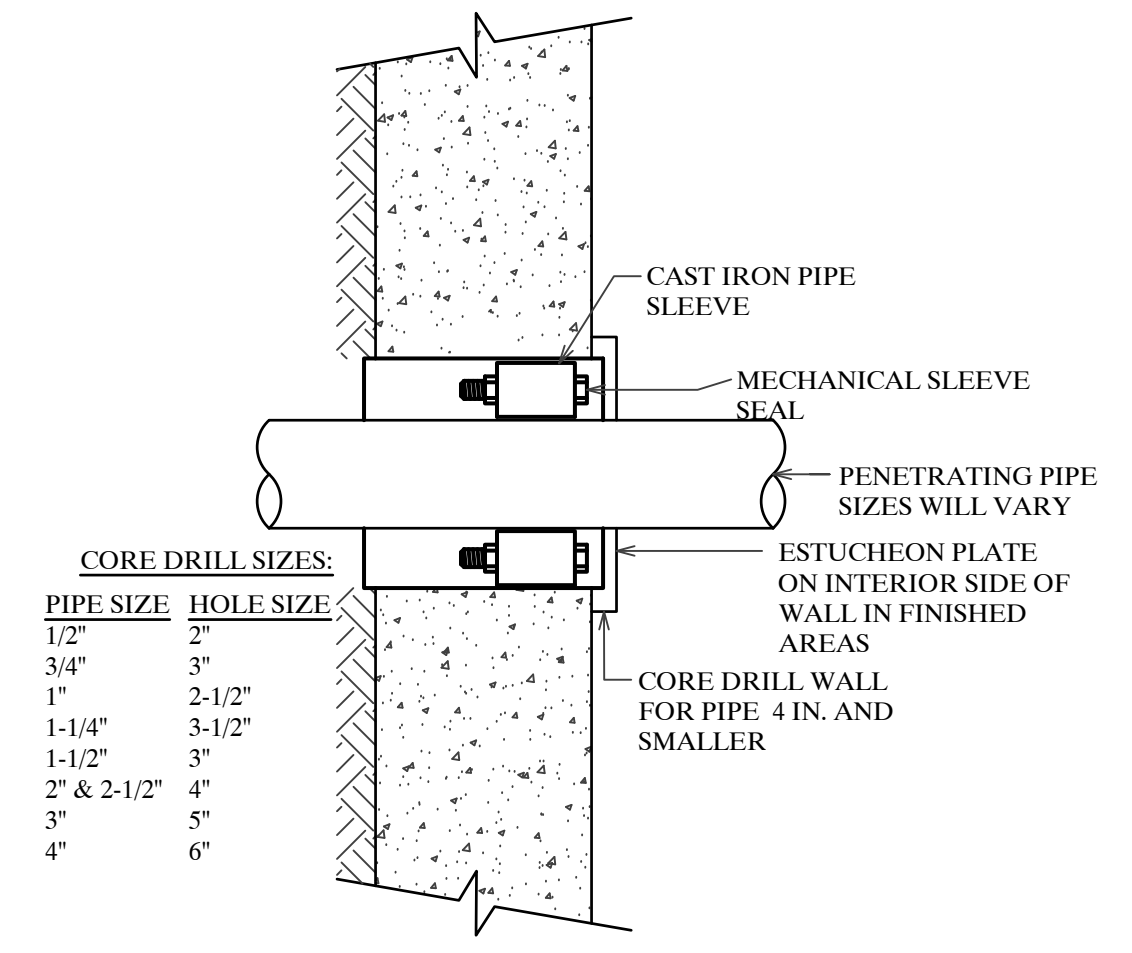
B PLUMBING VENT THRU ROOF DETAIL
SCALE: NTS



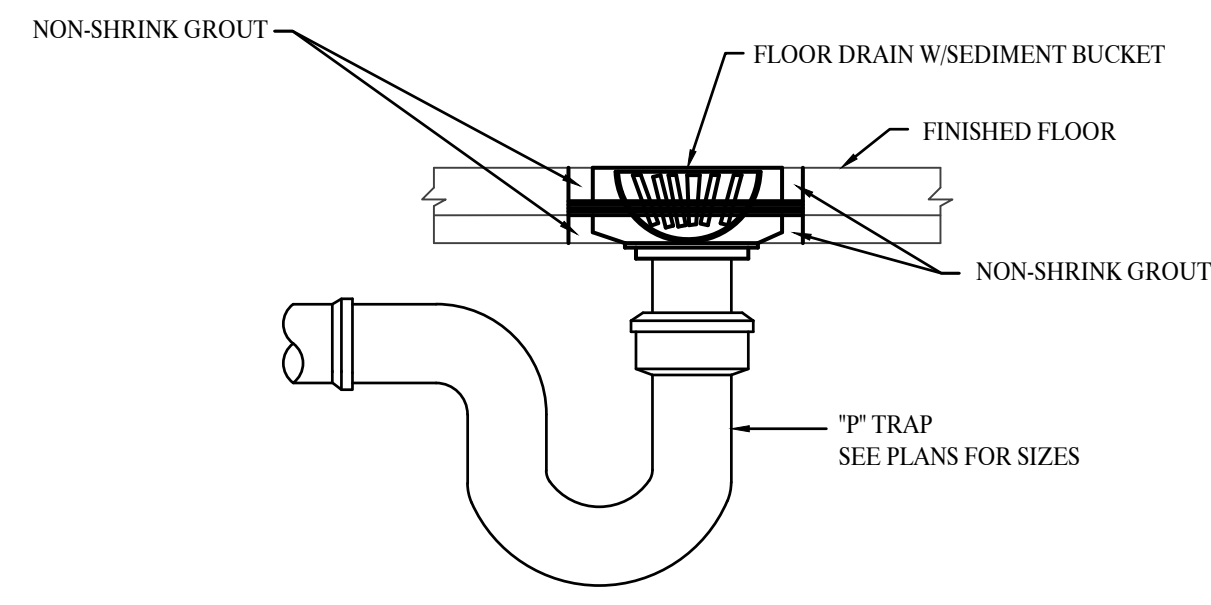
C MANUAL AIR VENT
SCALE: NTS



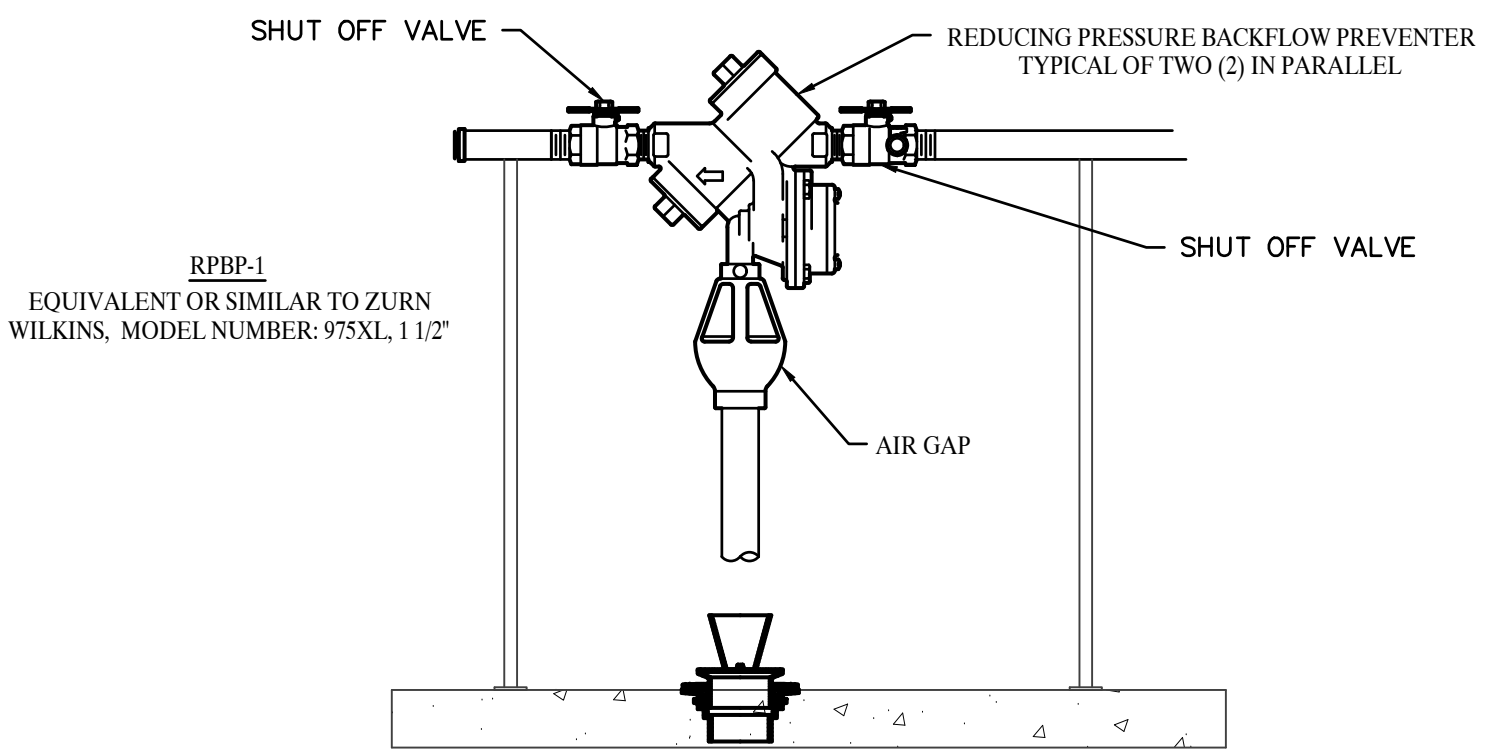
D DRAIN VALVE DETAIL
SCALE: NTS



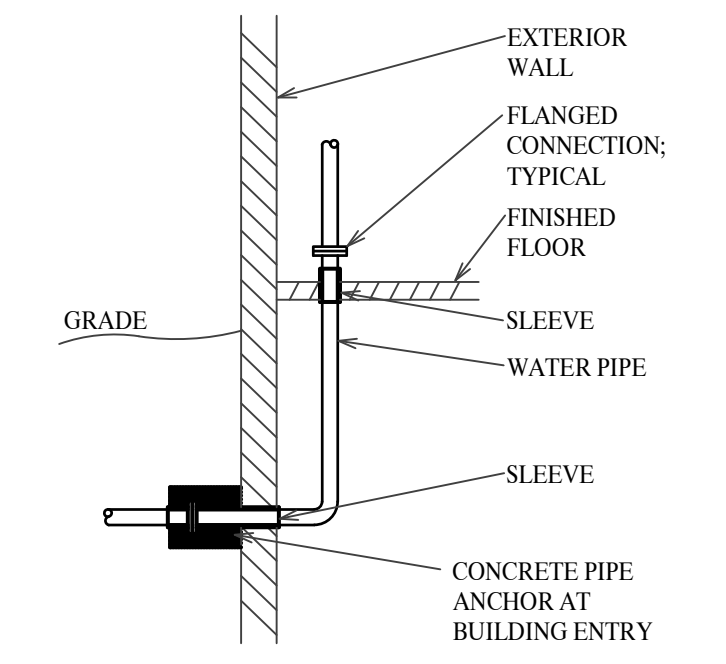
E UNDERGROUND EXTERIOR WALL PIPING PENETRATION DETAIL
SCALE: NTS



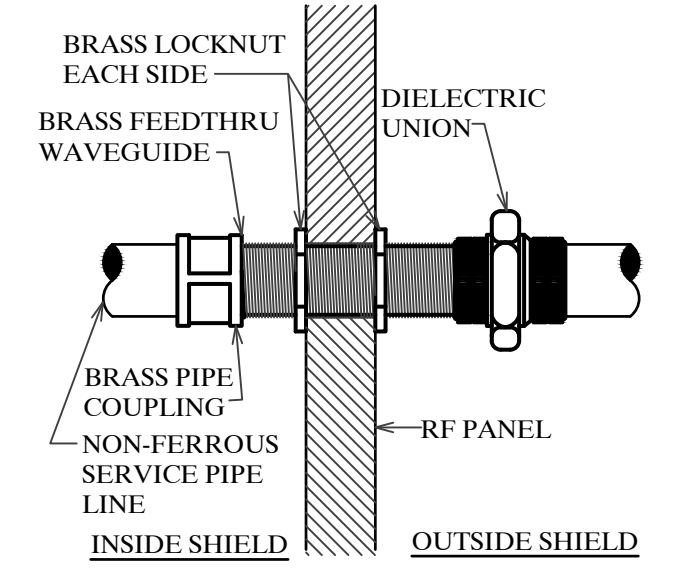
F TYPICAL FLOOR DRAIN DETAIL
SCALE: NTS



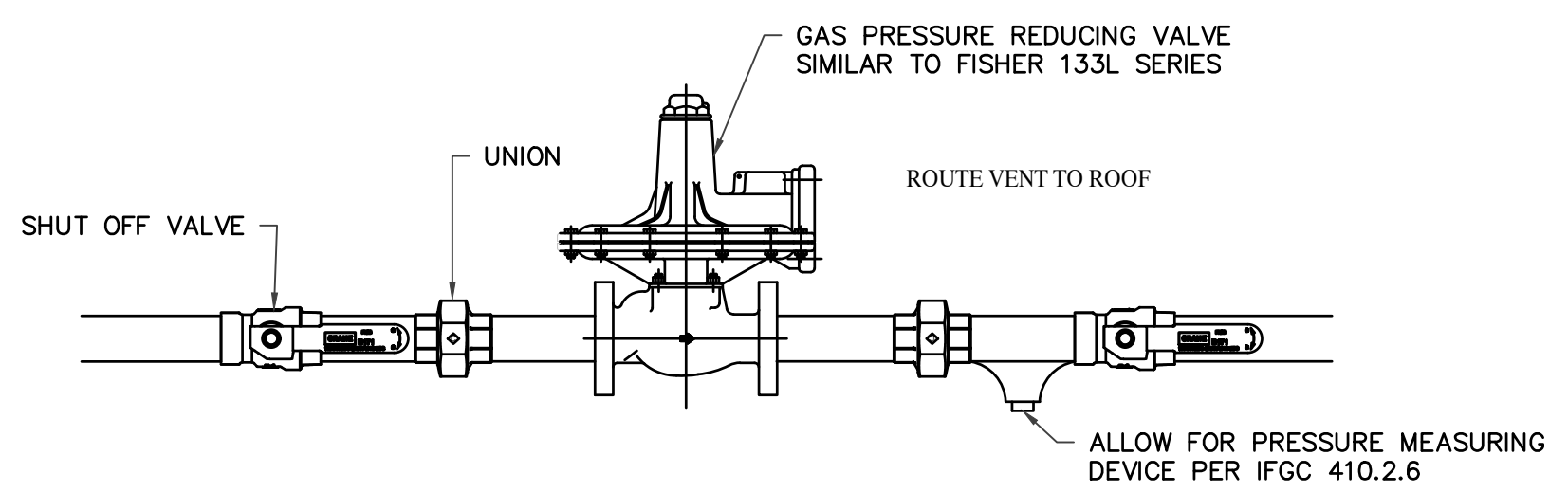
G REDUCING PRESSURE BACKFLOW PREVENTER DETAIL
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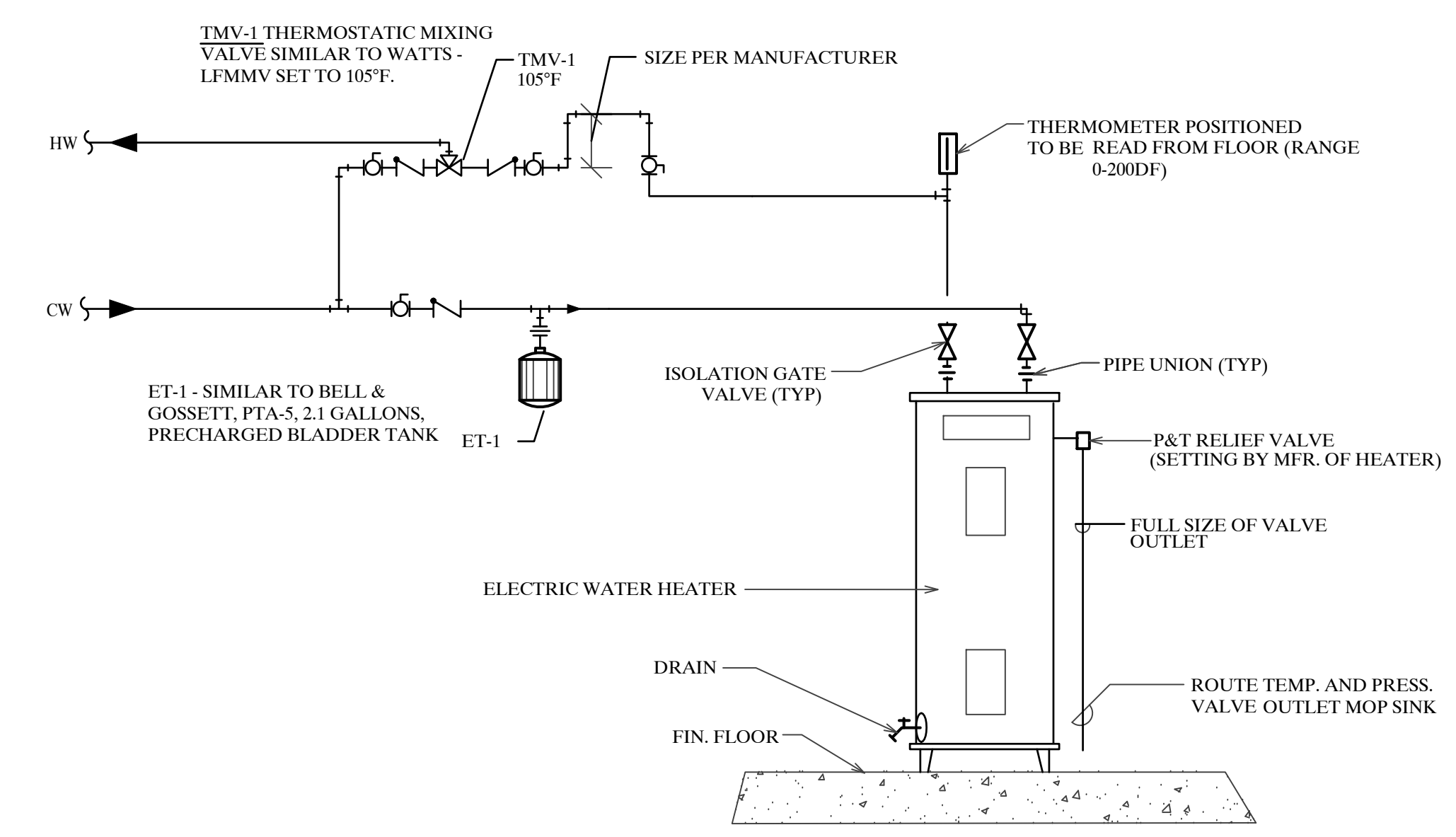
H BUILDING ENTRY DETAIL - WATER SUPPLY
SCALE: NTS



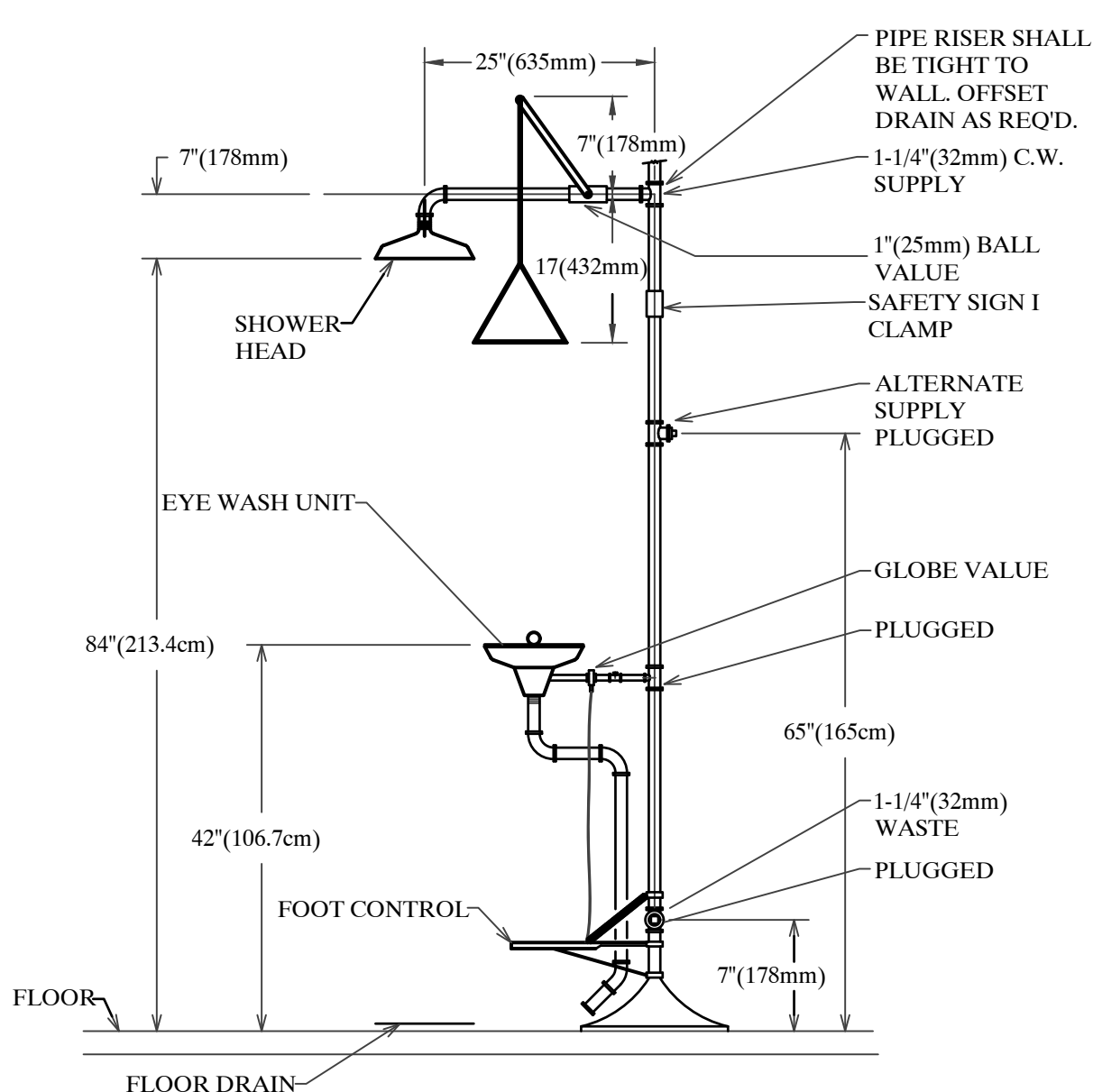
J DIELECTRIC WAVE GUIDE DETAIL
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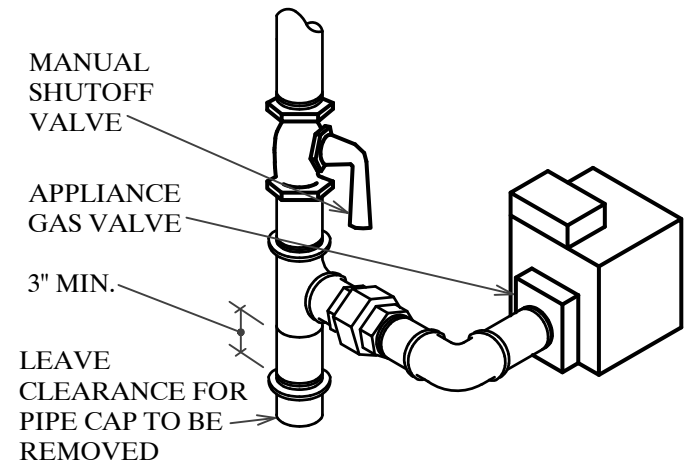
K GAS PRESSURE REDUCING VALVE
SCALE: NTS



L ELECTRIC WATER HEATER DETAIL
SCALE: NTS

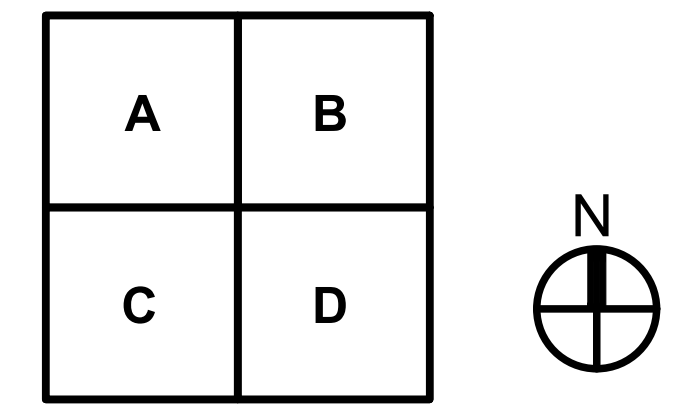


N EMERGENCY SHOWER AND EYE WASH
SCALE: NTS



P GAS DIRT LEG DETAIL
SCALE: NTS

DRAWING INDEX	
DRAWING No.	DRAWING TITLE
P001	PLUMBING SYMBOLS
P002	PLUMBING SCHEDULES AND RISERS
P003	PLUMBING SPECIFICATIONS
P101	FIRST FLOOR PLUMBING PLANS
FP101	FIRST FLOOR FIRE PROTECTION PLAN





MARK NO.	WC-1 & WC-2*
LOCATION	RESTROOMS
MANUFACTURER	AMERICAN STANDARD
MODEL	285.128
DESCRIPTION	MADERA® FLOWISE, WALL MOUNT, FLUSHOMETER
MATERIAL	VITREOUS CHINA
FLOW RATE	1.28 GPF
BOWL	ELONGATED
ROUGH-IN DIM	12"
ADA COMPLIANT	YES
INLET SPUD DIA.	1 1/2"
COLOR	WHITE
COMMENTS	WITH EVERCLEAN® DIRECT-FED SIPHON JET ACTION TOP SPUD INCLUDE TOILET SEAT: 5901.100
*WC-2 IS NOT ADA COMPLIANT	



NAME	WATER CLOSET WC-1
MANUF.	SLOAN
MODEL	ROYAL 111 ESS-1.6
INTERNAL DES.	DIAPHRAGM
STYLE	EXPOSED
INLET SIZE	1"
TRIP MECH	HARD WIRED
	SENSOR ACTUATED
CONSUMPTION	1.6 GPF
TAIL PECT. SZ	1 1/2"
COMMENTS	



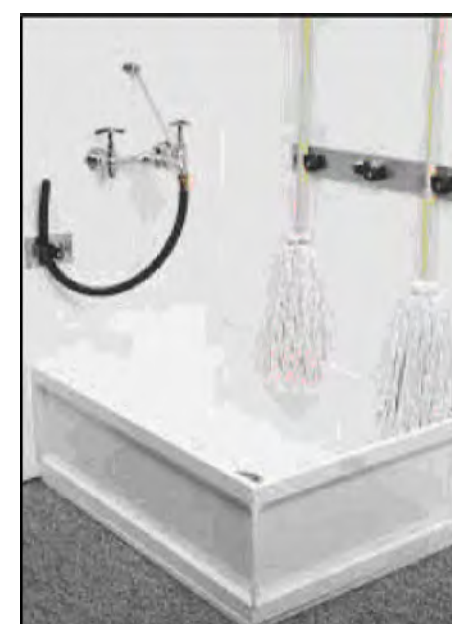
NAME	WATER CLOSET WC-1 & WC-2
MANUF.	AMERICAN STANDARD
MODEL	COMMERCIAL TOILET SEAT
CONFIGUR	OPEN FRONT
	WITHOUT COVER
MATERIAL	SOLID POLYPROPYLENE
SIZE	ELONGATED
HINGE TYPE	ELONGATED
ACTION	CHECK
CLASS	STANDARD COMMERCIAL
COLOR	WHITE



MARK NO.	L-111
LOCATION	RESTROOMS
MANUFACTURER	AMERICAN STANDARD
MODEL	055612
DESCRIPTION	LUCERNE™ SELF-RIMMING
MATERIAL	VITREOUS CHINA
DIMENSIONS	20 5/8" x 18 1/2"
FAUCET HOLES	1" CENTER HOLE
DEPTH	6 1/2"
ADA COMPLIANT	YES
COLOR	WHITE
COMMENTS	CUTOUT TEMPLATE SUPPLIED FRONT OVERFLOW INCLUDE ADA INSULATION PACKAGE FOR ALL EXPOSED PIPING



NAME	FAUCET L-1
MANUF.	SLOAN
MODEL	SF-2390-BAT-TEE-CP-0.8-GPM-MLM-IR-1
BODY MAT.	CAST BRASS
FINISH	POLISHED CHROME
MAX FLOW	0.5 GPM
TEMPERING	MECHANICAL
CENTERS	ONE HOLE
MOUNTING	DECK
HANDLES	SENSOR, HARD WIRED
INLET	1/2" MALE SHANKS
SPOUT TYPE	RIGID
SPOUT OUTLET	AERATOR
OPERATION	NON COMPRESS. MANUAL
DRAIN	NONE



NAME	MOP SINK MS-1
MANUF.	FLAT
MODEL	MOLDED STONE
DESCRIPTION	CAST POLYMER WITH RIM GUARD
SHAPE	SQUARE
SIZE	24" x 24" x 10"D
TILING FL.	ON TWO SIDES
RIM GUARD	ON ALL SIDES
COLOR	WHITE
FAUCET	INCLUDE MODEL 830 AA
DRAIN	GRID WITH 3" OUTLET
COMMENTS	INCLUDE MOP BRACKET



NAME	HOSE BIBB HB-1
MANUF.	WOODFORD MANUF. COMPANY
MODEL	185
MAX PRESS.	165 PSI
MAX TEMP	120 °F
CONNECTIO	3/4" MALE HOSE
TEE KEY	YES
VOLTS/HER	220/60
INLET	3/4" FEMALE THREADED
REMARKS	BRASS VALVE BODY CHROME FINISH

NAME	WATER HEATER WH-1
MANUF.	AO SMITH
MODEL	ENT-50
TYPE	ELECTRIC; 50 GALLONS
HEAT RECOVERY	90 °F @ 21 GPH
KW	9.0
WATER CONNECTION	3/4"
DIMENSIONS	
VOLTS/HERTZ/PHASE	240V/60/1
COMMENTS	MAX TEMP SETTING: 120

DRAIN SCHEDULE			
FIXTURE I.D.	MANUFACTURER	MODEL & (#) NO.	SIZE
FD-1	ZURN	Z300 FLOOR DRAIN INC. TRAP GUARD BY PROSET SYSTEMS MODEL TG33	3"
FD-2	ZURN	Z300 FLOOR DRAIN W/FUNNEL INC. TRAP GUARD BY PROSET SYSTEMS MODEL TG33	3"
CO-1	ZURN	Z1400 CLEAN OUT	3"
TD-1	ZURN	ZXXX	8x6" 4" OUTLET
YCO-1	ZURN	YARD CLEAN OUT	4"



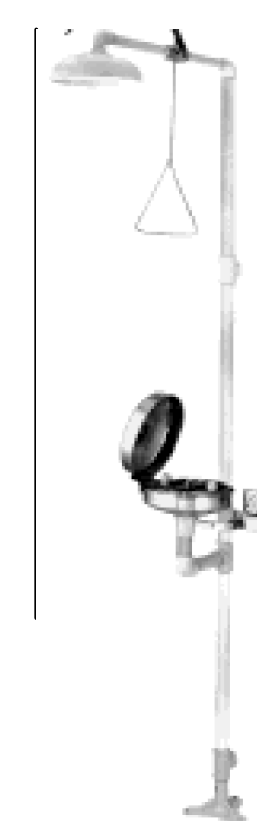
NAME	BOTTLE FILLER BF-1
MANUF.	ELKAY
MODEL	LZWSM8K
DESCRIPTION	BOTTLE FILLER WALL MOUNTED
CABINET	SINGLE LEVEL
BUBBLER	N/A
SUPPLY	3/8" WITH VALVE
FILTER	ONE FILTER
DRAIN	GRID WITH TRAP
COOLING SYS.	ELECTRIC
CAPACITY	GPH
SUPPORT	TYPE II CARRIER



NAME	WATER HEATER WH-1
MANUF.	AO SMITH
MODEL	DSE-40A
TYPE	ELECTRIC; 40 GALLONS
HEAT RECOVERY	100 °F @ 37 GPH
KW	9.0
WATER CONNECTION	3/4"
DIMENSIONS	54.75"H x 22" Ø
VOLTS/HERTZ/PHASE	208/60/3; FLA: 25A
COMMENTS	MAX TEMP SETTING: 110

NAME	KITCHEN SINK KS-1
MANUF.	DAYTON
MODEL	DXUB118
DESCRIPTION	DOUBLE-BOWL RESIDENTIAL COUNTER-MOUNTING STAINLESS-STEEL
OVERALL DIM.	31.75" x 18.25"
METAL THICK.	18 GAUGE
BOWL SIZE	14x15.75x8" DEEP
HOLE PUNCH.	FOUR

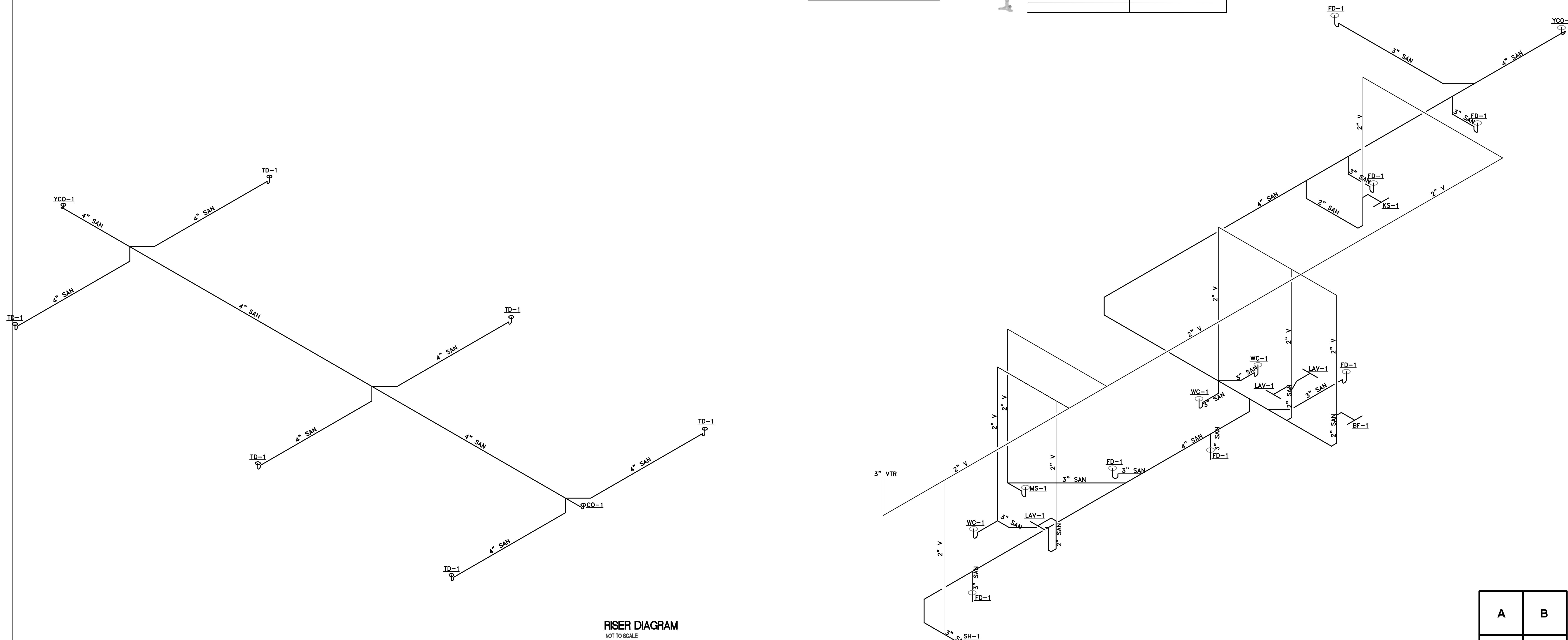
NAME	FAUCET, KS-1
MANUF.	DELTA
MODEL	400-DST
BODY MAT.	CAST BRASS
FINISH	POLISHED CHROME
MAX FLOW	1.8 GPM
MIXING VALVE	SINGLE CONTROL
CENTERS	4-HOLE
MOUNTING	DECK
HANDLES	LEVER
INLET	3/8" COMPRESS. CON.
SPOUT TYPE	SWING SOLID BRASS
SPOUT OUTLET	SWIVEL
VACUUM BREAK	NOT REQUIRED
OPERATION	NON COMPRESS. MANUAL



MARK NO.	EEWS-1
NAME/SERVICE	EMERGENCY EYEWASH
LOCATION	PLANT FLOOR
MANUFACTURER	BRADLEY CORP
MODEL	S-18-310DC
MOUNTING	FLOOR
CAPACITY	NOT LESS THAN 30 GPM
SUPPLY PIPE SIZE	1 1/4"
MAT. OF CONSTRUCTION	GALVANIZED STEEL
CONTROL VALVE ACTUATOR	PULL CHAIN
SHOWER HEAD SIZE	10"
SHOWER HEAD MOC	IMPACT-RESISTANT PLASTIC
BOWL SIZE	10"
BOWL MOC	STAINLESS STEEL
EYEWASH VALVE	1/2" STAY-OPEN BALL VALVE
COMMENTS	

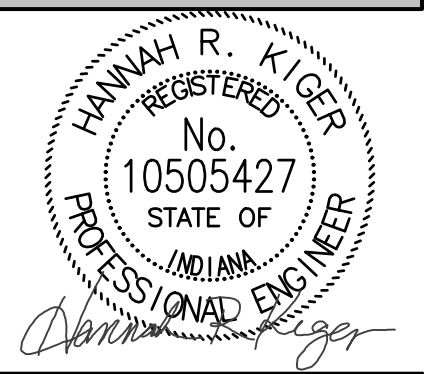
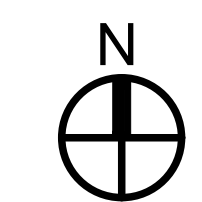


HAND HELD/SLIDE BAR PL-404-MO_SHR-01	
MARK NO.	SHOWER HEAD
MANUFACTURER	MOEN
MODEL	S670EP; A725
FUNCTION	4-SETTINGS
FLOW	1.75 GPM (WATERSENSE CERT)
TYPE	HAND HELD SHOWER HEAD
FINISH	POLISHED CHROME
REMARKS	NON POSITIVE SHUTOFF DROP EL WALL CONNECTION: ADA COMPLIANT



**RISER DIAGRAM
 NOT TO SCALE**

A	B
C	D



Disc:		
REVISIONS:		
#	Date	

100% CONSTRUCTION DOCUMENTS
PROJECT: 24020
DATE: 04-22-2024
DRAWN BY: DAE

DOMESTIC WATER PIPING

1.1 COPPER TUBE AND FITTINGS

- A. ASTM B 88, TYPE L (ASTM B 88M, TYPE B) HARD COPPER TUBE, WATER TUBE, DRAWN TEMPER WITH SOLDER OR PUSH-ON JOINT FITTINGS, BRONZE FLANGES, COPPER UNIONS WITH EPDM-RUBBER O-RING SEALS AND GROOVED-END FITTINGS AND COUPLINGS.
B. ASTM B 88, TYPE K (ASTM B 88M, TYPE A), SOFT COPPER TUBE, WATER TUBE, ANNEALED TEMPER WITH WROUGHT-COPPER PRESSURE FITTINGS OR PRESSURE-SEAL-JOINT FITTINGS WITH EPDM-RUBBER O-RING SEALS.

1.2 PIPING JOINING MATERIALS

- A. PIPE-FLANGE GASKET MATERIALS SHALL BE, NONMETALLIC AND ASBESTOS FREE, FULL-FACE OR RING TYPE.
B. METAL PIPE-FLANGE BOLTS AND NUTS ARE CARBON STEEL.
C. SOLDER FILLER METALS SHALL BE LEAD FREE ALLOYS WITH WATER-FLUSHABLE FLUX.

1.3 TRANSITION FITTINGS

- A. TRANSITION FITTING SHALL BE THE SAME SIZE, PRESSURE RATING AND END CONNECTIONS AS THE ADDING PIPES.

1.4 DIELECTRIC FITTINGS

- A. SEPARATE DISSIMILAR PIPE MATERIALS WITH NONCONDUCTIVE INSULATING MATERIAL THAT IS COMPATIBLE WITH THE FLUID AND ITS CHARACTERISTICS.

1.5 FLEXIBLE CONNECTORS

- A. CORRUGATED-BRONZE TUBING WITH BRONZE WIRE-BRAID COVERING AND ENDS BRAZED TO INNER TUBING, MINIMUM OF 30 PSIG WORKING PRESSURE AND PLAIN ENDS.
B. CORRUGATED-STAINLESS-STEEL TUBING WITH STAINLESS-STEEL WIRE-BRAID COVERING AND ENDS WELDED TO INNER TUBING, MINIMUM OF 300 PSIG WORKING PRESSURE AND THREADED OR FLANGED ENDS.

1.10 PIPING INSTALLATION

- A. INSTALL SHUTOFF VALVE IMMEDIATELY UPSTREAM OF EACH DIELECTRIC FITTING.
B. INSTALL UNIONS IN COPPER TUBING AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT, MACHINE, AND SPECIALTY.
C. IDENTIFY ALL PIPING USING PIPE LABELS.

1.11 HANGER AND SUPPORT INSTALLATION

- A. INSTALL MSS TYPE P OR 42 CLAMPS FOR VERTICAL PIPING.
B. INSTALL MSS TYPE P, ADJUSTABLE STEEL CLEVIS HANGERS FOR PIPING RUNS LESS THAN 100 FEET.
C. INSTALL MSS TYPE 43 ADJUSTABLE ROLLER HANGERS OR MSS TYPE 49 SPRING CUSHION ROLLS FOR PIPING RUNS GREATER THAN 100 FEET.
D. INSTALL MSS TYPE 44 PIPE ROLLS FOR MULTIPLE, STRAIGHT, HORIZONTAL PIPE RUNS 100 FEET OR LONGER. SUPPORT PIPE ROLLS ON TRAPEZE.
E. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.
F. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
G. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH.

1.12 FIELD QUALITY CONTROL

- A. PERFORM TESTS AND INSPECTIONS.
B. COMPLY WITH AUTHORITIES HAVING JURISDICTION ON APPROPRIATE TESTING AND INSPECTIONS. PREPARE INSPECTION REPORTS AS REQUIRED.
C. PIPING TESTS:
1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
3. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.
4. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
5. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL ACCEPTABLE RESULTS ARE OBTAINED.
6. PREPARE REPORTS FOR TESTS AND FOR CORRECTIVE ACTION REQUIRED.
D. DOMESTIC WATER PIPING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
E. PREPARE TEST AND INSPECTION REPORTS.
F. PERFORM ADJUSTMENTS AS NECESSARY TO ALL VALVES, HYDRANTS, HOSE BIBBS.
G. CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING PER AWWA PROCEDURES.

SANITARY WASTE AND VENT PIPING

1.1 PVC PIPE AND FITTINGS

- A. SCHEDULE 40 CELLULAR-CORE PVC PIPE WITH CORRESPONDING ADHESIVE PRIMER AND SOLVENT CEMENT.

1.2 SPECIALTY PIPE FITTINGS

- A. TRANSITION COUPLINGS:
1. FITTING OR DEVICE FOR JOINING PIPING WITH SMALL DIFFERENCES IN ODS OR OF DIFFERENT MATERIALS. INCLUDE END CONNECTIONS SAME SIZE AS AND COMPATIBLE WITH PIPES TO BE JOINED.
2. FITTING-TYPE TRANSITION COUPLINGS SHALL BE MANUFACTURED PIPING COUPLING OR SPECIFIED PIPING SYSTEM FITTING.
3. SHIELDED, NONPRESSURE TRANSITION COUPLINGS SHALL BE ELASTOMERIC OR RUBBER SLEEVE WITH FULL-LENGTH, CORROSION-RESISTANT OUTER SHIELD AND CORROSION-RESISTANT-METAL TENSION BAND AND TIGHTENING MECHANISM ON EACH END.
4. PRESSURE TRANSITION COUPLINGS SHALL BE METAL SLEEVE-TYPE AND THE SAME MATERIAL AND JOINING ENDS AS THE PIPE.
B. PERFORMANCE REQUIREMENTS
A. MINIMUM WORKING PRESSURE FOR SOIL, WASTE AND VENT PIPING SHALL BE 10-FOOT HEAD OF WATER.
C. PIPING INSTALLATION
A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL ONLY SANITARY FITTINGS APPROPRIATE TO THE APPLICATION.
C. INSTALL BUILDING SANITARY DRAIN WITH A 2 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 3 AND SMALLER AND 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4 AND LARGER.
D. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
E. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

1.5 SPECIALTY PIPE FITTING INSTALLATION

- A. INSTALL TRANSITION COUPLINGS WHEN THERE ARE SMALL DIFFERENCES IN ODS, IN SHIELDED NONPRESSURE DRAINAGE PIPING, AND FORCE MAIN PIPING.
B. INSTALL DIELECTRIC FITTINGS IN PIPING AT CONNECTIONS OF DISSIMILAR METAL PIPING AND TUBING.
C. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
D. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, WITH 3/8-INCH MINIMUM RODS.

1.6 HANGER AND SUPPORT INSTALLATION

- A. INSTALL CARBON-STEEL PIPE HANGERS FOR HORIZONTAL PIPING IN NONCORROSIVE ENVIRONMENTS.
B. INSTALL FIBERGLASS PIPE HANGERS FOR HORIZONTAL PIPING IN CORROSIVE ENVIRONMENTS.
C. SUPPORT HORIZONTAL PIPING AND TUBING WITHIN 12 INCHES OF EACH FITTING AND COUPLING.
D. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
E. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, WITH 3/8-INCH MINIMUM RODS.

1.7 CONNECTIONS

- A. CONNECT SANITARY AND VENT PIPING TO ALL INDICATED FIXTURES.
B. CONNECT WITH UNION IN PIPING THAT IS NPS 2 AND SMALLER.
C. CONNECT WITH FLANGES IN PIPING THAT NPS 2 1/2 AND LARGER.

1.8 TESTING

- A. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM ALL TESTS SPECIFIED BY IT AND IN THE PRESENCE OF AUTHORITIES HAVING JURISDICTION.
B. PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.
C. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL PIPES HAVE PASSING RESULTS.

1.9 CLEANING AND PROTECTION

- A. STORE AND PROTECT ALL MATERIALS DURING THE ENTIRE CONSTRUCTION PROCESS.

PLUMBING IDENTIFICATION

1.1 EQUIPMENT LABELS

- A. METAL LABELS FOR EQUIPMENT SHALL BE A MINIMUM OF 2 1/2" X 0.75" 0.025" THICK STAINLESS STEEL WITH PREDRILLED OR STAMPED HOLES FOR ATTACHMENT AND STAINLESS STEEL RIVETS OR SELF-TAPPING SCREWS. LETTER SIZING SHALL BE A MINIMUM OF 0.3" TALL. AT A MINIMUM THE LABEL SHALL INCLUDE THE UNIQUE EQUIPMENT NUMBER DESIGNATION AS SHOWN ON THE DRAWINGS OR SPECIFICATIONS. PROVIDE AN EQUIPMENT SCHEDULE FOR THE OWNER.

1.2 WARNING SIGNS AND LABELS

- A. WARNING SIGNS AND LABELS SHALL BE MULTILAYERED, MULTICOLORED, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 1/8" THICK, AND HAVE PREDRILLED HOLES FOR ATTACHMENT HARDWARE. LETTERING SHALL BE RED WITH A WHITE BACKGROUND. THE MINIMUM SIZE SHALL BE 2 1/2" X 0.75" WITH LETTERING A MINIMUM 0.3" TALL. FASTENERS SHALL BE STAINLESS STEEL RIVETS OR SELF-TAPPING SCREWS. INFORMATION SHOULD INCLUDE CAUTION AND WARNING INFORMATION AND EMERGENCY INSTRUCTIONS.

1.3 PIPE LABELS

- A. ALL PIPE LABELS SHALL BE PREPRINTED, COLOR-CODED WITH LETTERING INDICATING SIZE AND FLOW DIRECTION. LETTERING SIZE SHALL BE AT LEAST 1 1/2" TALL.
B. SELF-ADHESIVE PIPE LABELS SHALL BE PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT-ADHESIVE BACKING.

1.4 VALVE TAGS

- A. VALVE TAGS SHALL BE STAINLESS STEEL, 0.025" THICK WITH PREDRILLED OR STAMPED HOLES FOR BRASS WIRE-LINK, BEADED CHAIN OR SHOOK, AND STAMPED OR ENGRAVED WITH 0.25" LETTERS FOR PIPING SYSTEM ABBREVIATION AND 0.5" NUMBERS. VALVE TAGS SHALL BE 2" ROUND WITH BLACK LETTERING. PROVIDE A VALVE SCHEDULE FOR OWNER.

1.5 WARNING TAGS

- A. WARNING TAGS SHALL BE A MINIMUM OF 7 1/2" X 2 1/2" AND PREPRINTED OR PARTIALLY PREPRINTED, ACCIDENT PREVENTION TAGS, OR PLASTICIZED CARD STOCK WITH MATTE FINISH SUITABLE FOR WRITING. INCLUDE BRASS GROMMET AND WIRES FOR FASTENING. WRITING SHALL BE LARGE-SIZE WITH WORDS SUCH AS "DANGER" OR "CAUTION." USE BLACK LETTERING WITH A YELLOW BACKGROUND.

1.6 INSTALLATION

- A. ENSURE THAT SURFACES ARE CLEAN AND READY TO ACCEPT LABEL.
B. LOCATE LABELS WHERE ACCESSIBLE AND VISIBLE.
C. LOCATE PIPE LABELS WHERE PIPING IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS IN FINISHED SPACES. LOCATE A MAXIMUM OF 30" INTO WALLS AND 25" IF IN CONGESTED AREAS. ALWAYS LOCATE NEAR EQUIPMENT AND DEVICES.
D. PIPE LABEL COLOR SCHEDULE:
1. LOW-PRESSURE, COMPRESSED-AIR PIPING WITH WHITE BACKGROUND AND BLACK LETTERING
2. MEDIUM-PRESSURE, COMPRESSED-AIR PIPING WITH WHITE BACKGROUND AND BLACK LETTERING.
3. DOMESTIC WATER PIPING WITH WHITE BACKGROUND AND BLUE LETTERING.
4. SANITARY WASTE PIPING WITH BLACK BACKGROUND AND BLUE LETTERING.
E. ON WARNING TAGS WRITE REQUIRED MESSAGE OR, AND ATTACH WARNING TAGS TO EQUIPMENT AND OTHER ITEMS REQUIRED BY OWNER.

PIPING INSULATION

1.1 INSULATION MATERIALS

- A. FLEXIBLE ELASTOMERIC INSULATION:
B. MINERAL-FIBER BLANKET INSULATION:
C. MINERAL-FIBER, PREFORMED PIPE INSULATION:
D. INSULATING CEMENTS
A. MINERAL-FIBER INSULATING CEMENT
B. EXPANDED OR EXFOLIATED VERMICULITE INSULATING CEMENT
C. MINERAL-FIBER, HYDRALIC-SETTING INSULATING AND FINISHING CEMENT

1.3 ADHESIVES

- A. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.
B. FLEXIBLE ELASTOMERIC ADHESIVE: COMPLY WITH MIL-A-24179A, TYPE II, CLASS I.
C. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3136C, CLASS 2, GRADE A.
D. ASI ADHESIVE, AND FSK JACKET ADHESIVE: COMPLY WITH MIL-A-3136C, CLASS 2, GRADE A FOR BONDING INSULATION JACKET LAP SEAMS AND JOINTS.
E. PVC JACKET ADHESIVE: COMPATIBLE WITH PVC JACKET.

1.4 SEALANTS

- A. ASI FLASHING SEALANTS AND PVC JACKET FLASHING SEALANTS SHALL BE WHITE WITH FIRE AND WATER RESISTANT ELASTOMERIC AND SERVICE TEMPERATURE RATING OF -40 TO +250 DEG F.
B. ASI IS WHITE WITH KRAFT-PAPER AND FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING.
B. ASSSL IS SELF-SEALING ASI WITH PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP.
C. FACTORY-APPLIED JACKETS
A. ASI IS WHITE WITH KRAFT-PAPER AND FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING.
B. ASSSL IS SELF-SEALING ASI WITH PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP.

1.6 FIELD-APPLIED JACKETS

- A. PVC JACKET SHALL BE HIGH-IMPACT-RESISTANT, UV-RESISTANT. FINISH COLOR SHALL BE CHOSEN BY THE OWNER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

1.7 TAPES

- A. ASI TAPE SHALL BE 3" WIDE WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, 11.5 MILS THICK WITH A TENSILE STRENGTH OF 800 LB/INCH. USE PRECUT DISKS OR SQUARES.
B. PVC TAPE SHALL BE 2" WIDE WHITE VAPOR-RETARDER TAPE MATCHING FIELD-APPLIED PVC JACKET WITH ACRYLIC ADHESIVE AND SUITABLE FOR INDOOR AND OUTDOOR APPLICATIONS; 4 MILS THICK WITH A TENSILE STRENGTH OF 18 LB/INCH IN WIDTH.
C. SECUREMENTS
A. 304 STAINLESS STEEL BANDS 0.015", 1/2" WIDE WITH WING SEAL.
B. STAPLES SHALL BE OUTWARD-CLINCHING INSULATION STAPLES, NOMINAL 3/4-INCH WIDE, STAINLESS STEEL.
C. WIRE SHALL BE 0.062-INCH SOFT-ANNEALED, STAINLESS STEEL.

1.9 INSTALLATION

- A. REVIEW CONDITIONS OF SUBSTRATES BEFORE BEGINNING INSTALLATION FOR COMPLIANCE WITH TOLERANCES, ETC.
B. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.
C. DO NOT WELD BRACKETS, CLIPS, OR OTHER ATTACHMENT DEVICES TO PIPING, FITTINGS, AND SPECIALTIES.
D. APPLY ADHESIVES, MASTICS, AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE AND WET AND DRY FILM THICKNESSES.
E. INSTALL INSULATION WITH FACTORY-APPLIED JACKETS PER MANUFACTURER'S RECOMMENDATIONS.
F. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT.
G. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.
H. FOR ABOVE-AMBIENT SERVICES, DO NOT INSTALL INSULATION TO VIBRATION-CONTROL DEVICES, TESTING AGENCY LABELS AND STAMPS, NAMEPLATES AND DATA PLATES AND CLEANOUTS.
I. INSTALL INSULATION ON FITTINGS, VALVES, STRAINERS, FLANGES, AND UNIONS.
J. INSULATE INSTRUMENT CONNECTIONS FOR THERMOMETERS, PRESSURE GAUGES, PRESSURE TEMPERATURE TAPS, TEST CONNECTIONS, FLOW METERS, SENSORS, SWITCHES, AND TRANSMITTERS ON INSULATED PIPES. SEALE INSULATION AT THESE CONNECTIONS BY TAPERING IT TO AND AROUND THE CONNECTION WITH INSULATING CEMENT AND FINISH WITH FINISHING CEMENT, MASTIC, AND FLASHING SEALANT.

1.10 PENETRATIONS

- A. INSTALL INSULATION CONTINUOUSLY THROUGH ROOF PENETRATIONS AND ABOVE GROUND EXTERIOR WALL PENETRATIONS. SEAL PENETRATIONS WITH FLASHING SEALANT. IF INSULATION IS ONLY REQUIRED INDOORS THEN TERMINATE INSULATION ABOVE ROOF SURFACE. IF REQUIRED OUTDOOR AS WELL THEN INSTALL INSULATION TIGHTLY JOINED TO INDOOR INSULATION AND SEAL THE JOINT WITH SEALANT.
B. INSTALL INSULATION AT UNDERGROUND EXTERIOR WALL PENETRATIONS AND TERMINATE INSULATION FLUSH WITH SLEEVE SEAL. SEAL TERMINATIONS WITH FLASHING SEALANT.
C. INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
D. INSTALL INSULATION CONTINUOUSLY THROUGH FIRE-RATED WALL PARTITION PENETRATIONS AND FLOORS. SEAL WITH FIRE RATED SEALANT.

1.11 FIELD-APPLIED JACKET INSTALLATION

- A. WHERE PVC JACKETS ARE INDICATED, INSTALL WITH 1-INCH (25-MM) OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS. SEAL WITH MANUFACTURER'S RECOMMENDED ADHESIVE.
B. WHERE METAL JACKETS ARE INDICATED, INSTALL WITH 2-INCH (50-MM) OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS. OVERLAP LONGITUDINAL SEAMS ARRANGED TO SHED WATER. SEAL END JOINTS WITH WEATHERPROOF SEALANT RECOMMENDED BY INSULATION MANUFACTURER. SECURE JACKET WITH STAINLESS-STEEL BANDS 12 INCHES (300 MM) O.C. AND AT END JOINTS.

1.12 FINISHES

- A. INSULATION WITH ASI SHALL HAVE TWO FINISH COATS OF FLAT ACRYLIC OVER A PRIMER THAT HAS A FUNGICIDAL AGENT.
B. FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION APPLY TWO COATS OF MANUFACTURER'S RECOMMENDED PROTECTIVE COATING AFTER THE ADHESIVE IS CURED.
C. DO NOT FIELD PAINT ALUMINUM OR STAINLESS-STEEL JACKETS.

1.13 FIELD QUALITY CONTROL

- D. PERFORM TESTS AND INSPECTIONS. REPAIR ANY INSULATION THAT FAILS.

NATURAL GAS PIPING

Table with 3 columns: Description, 1" AND SMALLER, 1" AND BIGGER. Rows include Indoor, Pressure Less Than 0.5 PSIG and Indoor, Pressure More Than 0.5 PSIG but not more than 5 psig.

- 1. JOIN DISSIMILAR MATERIALS WITH DIELECTRIC FITTINGS
2. INSTALL PIPING LEVEL AND PLUMB UNLESS INDICATED OTHERWISE AND WITH RIGHT ANGLES PARALLEL TO WALLS
3. INSTALL SCH. 40 PVC PIPE SLEEVES FOR PIPING PASSING THROUGH FLOORS, ROOFS, AND WALLS. INSTALL FLUSH EXCEPT IN MECHANICAL ROOMS AND THEN EXTEND 2" ABOVE THE FINISHED FLOOR.
5. IF APPLICABLE, MAINTAIN FIRE RATING AROUND PIPE PENETRATIONS

INTERIOR GAS PIPING SHALL BE SUPPORTED BY ROD HANGERS. HANGERS IN THE PIPE RUN SHALL BE 1/2" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR ATTACHMENTS. PROVISIONS SHALL BE MADE TO ACCOMMODATE EXPECTED DEFLECTIONS.

DOMESTIC WATER PIPING

Table with 3 columns: Description, 2" AND SMALLER, 2 1/2" AND BIGGER. Rows include Under-Building-Slab Building Service Piping and Under-Building-Slab Domestic Water Piping.

Table with 3 columns: Description, 2" AND SMALLER, 2 1/2" AND BIGGER. Row includes Above Ground Domestic Water Piping.

Table with 3 columns: Description, 2" AND SMALLER, 2 1/2" AND BIGGER. Row includes Flexible Connectors.

- 1. JOIN DISSIMILAR MATERIALS WITH DIELECTRIC FITTINGS
2. INSTALL FLEXIBLE CONNECTORS TO SUCTION AND DISCHARGE OF WATER PUMPS
3. INSTALL SUFFY PIPING LEVEL AND PLUMB UNLESS INDICATED OTHERWISE AND WITH RIGHT ANGLES PARALLEL TO WALLS
4. INSTALL SCH. 40 PVC PIPE SLEEVES FOR PIPING PASSING THROUGH FLOORS, ROOFS, AND WALLS. INSTALL FLUSH EXCEPT IN MECHANICAL ROOMS AND THEN EXTEND 2" ABOVE THE FINISHED FLOOR.
5. IF APPLICABLE, MAINTAIN FIRE RATING AROUND PIPE PENETRATIONS

VALVES

Table with 3 columns: Description, 2" & SMALLER, 2 1/2" & BIGGER. Rows include Shut-Off Valve, Throttling Service, Hot Water - Balancing, Drain Duty, Compressed Air, Hot & Cold Water.

- 1. DO NOT ATTEMPT TO REPAIR DAMAGED VALVES
2. INSTALL VALVES TO ALLOW FOR SERVICE
3. INSTALL VALVE STEMS AT OR ABOVE CENTER OF HORIZONTAL PIPE
4. INSTALL TO ALLOW FOR FULL STEM MOVEMENT

SEWER AND VENT PIPING

Table with 3 columns: Description, 4" AND SMALLER, 6" AND BIGGER. Rows include Aboveground Soil and Waste Piping, Aboveground Vent Piping, Underground Soil and Waste Piping, Aboveground Sanitary Sewer Force Main.

- 1. JOIN DISSIMILAR MATERIALS WITH DIELECTRIC FITTINGS
2. IF APPLICABLE, MAINTAIN FIRE RATING AROUND PIPE PENETRATIONS

HANGER SPACING

Table with 12 columns: Pipe Size, Spacing 3/4", 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6, 8, 10-12. Rows include Steel Tubing, Copper Piping, PEX, Cast Iron Drainage Piping, PVC Drainage Piping, Corrugated Stainless Steel Tubing.

PIPING INSULATION SCHEDULE (INDOOR)

Table with 6 columns: System, Refrigerant (See Note 4), Domestic Hot Water & Return, Domestic Cold Water, Horizontal Storm Water (Note 3a, 5), Condensate Drain. Rows include Insulation Type, Jacket Type, Vapor Barrier Req'd, Rinsouts (Note 1a & 2), 1" & Less, 1.25" to 2", 2.5" to 4", 5" & Above.

- NOTES:
1. INDOOR INSTALLATION - FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.
2. OUTDOOR INSTALLATION - FLAME SPREAD INDEX OF 75 OR LESS AND SMOKE-DEVELOPED INDEX OF 150 OR LESS.
3. MATERIALS MAY NOT CONTAIN ASBESTOS, LEAD, MERCURY OR MERCURY COMPOUNDS.
4. LONGITUDINAL SEAMS INSTALLED AT TOP AND BOTTOM OF HORIZONTAL RUNS.
5. MULTIPLE LAYERS SHALL HAVE STAGGERED SEAMS.
6. INSTALL WITH MINIMAL AMOUNT OF JOINTS.
7. AVOID COMPRESSING INSULATION TO 75% OR MORE OF ITS NOMINAL THICKNESS.
8. REPAIR ALL DAMAGED PRODUCT AS NECESSARY.
9. RINSOUTS NOT EXCEEDING 12 FEET IN LENGTH AND 2" PIPE TO INDIVIDUAL HVAC TERMINAL UNITS.
10. RINSOUTS THAT ARE NOT LARGER THAN 1" AND NON-CIRCULATING TO INDIVIDUAL PLUMBING UNITS.
11. INCLUDES ROOF DRAIN BODY AND VERTICAL RUN UP TO THE ROOF DRAIN BODY.
12. PROVIDE PVC JACKET ON EXTERIOR REFRIGERANT PIPING.
13. INSTALL 5'X3'X1/4" ARMAFLEX GLUED TO BOTTOM OF ROOF AND OVER BOOTYS. EXISTING & NEW INSULATION TYPES
FE FLEXIBLE ELASTOMERIC - COMPLYING WITH ASTM C 534, TYPE I
MF MINERAL FIBER BLANKET (FIBERGLASS) - COMPLYING WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE I
MP MINERAL FIBER, PREFORMED PIPE INSULATION - COMPLYING WITH ASTM C 547, TYPE 1, GRADE A WITH FACTORY APPLIED ASI-SSL
SS STAINLESS STEEL

ESCUTCHEONS

Table with 2 columns: Description, Type. Rows include New Pipe, Protruding From Wall, Insulated Piping, Bare Pipe, Existing Pipe, All Pipe, For The Floor.

- 1. REPLACE BROKEN AND DAMAGED ESCUTCHEONS AND FLOOR PLATES USING NEW MATERIALS
2. SUBMIT EACH TYPE FOR REVIEW

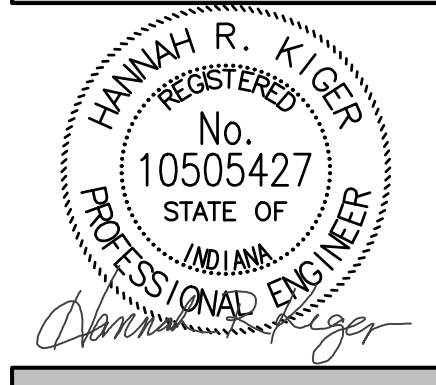


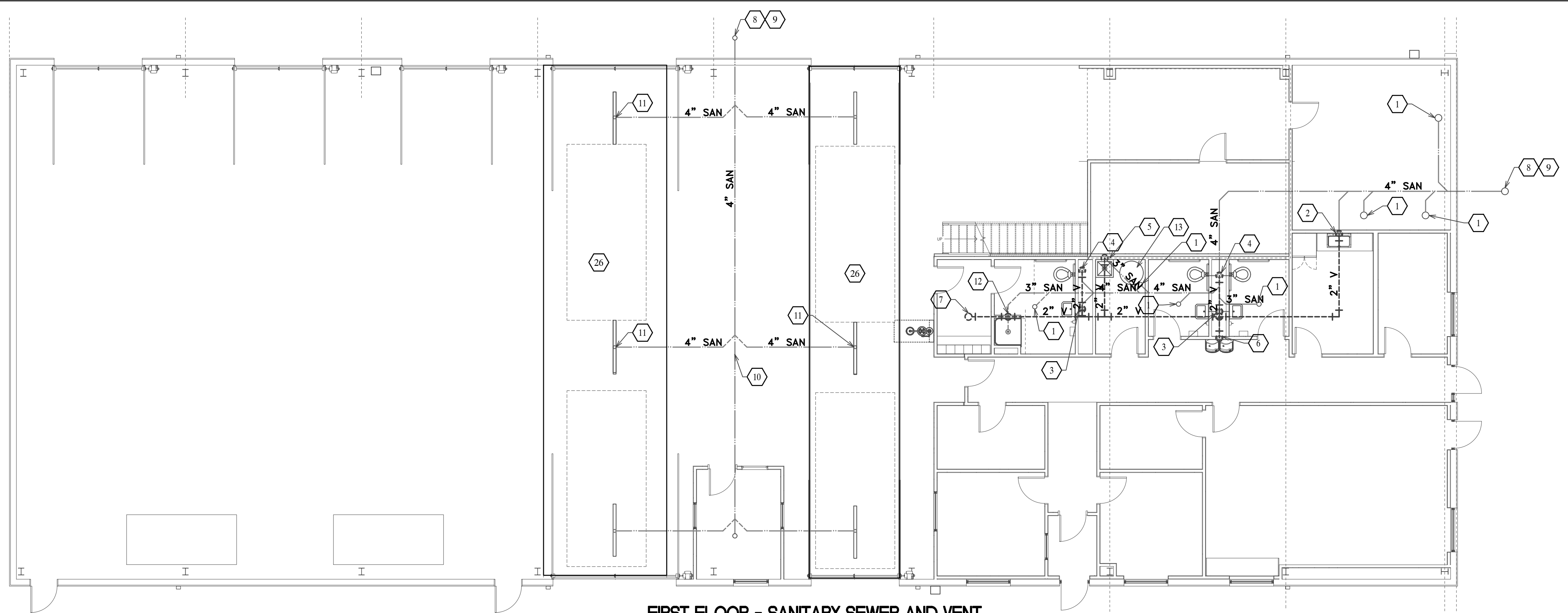
Table for Revisions: Date, Description, Revisions.

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SHEET NAME
PLUMBING SPECIFICATIONS

Grid layout with cells A, B, C, D.

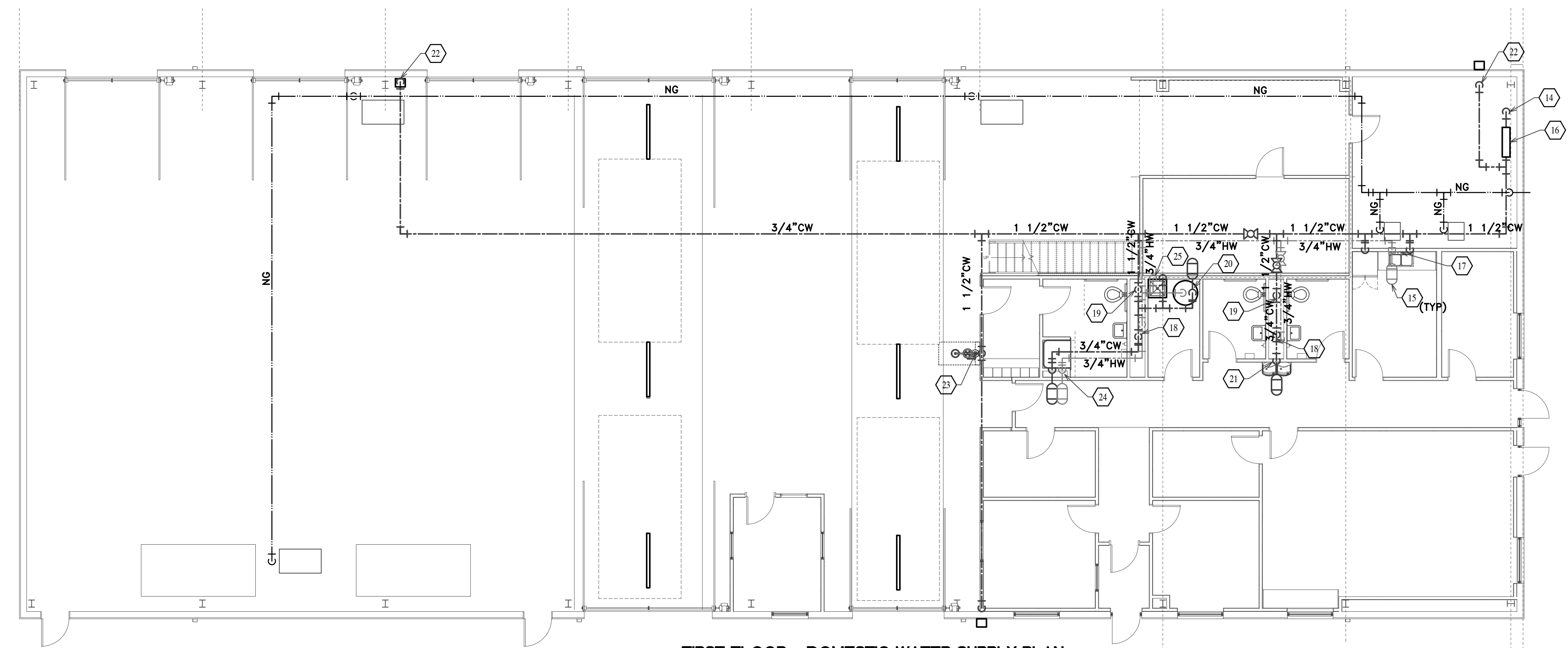




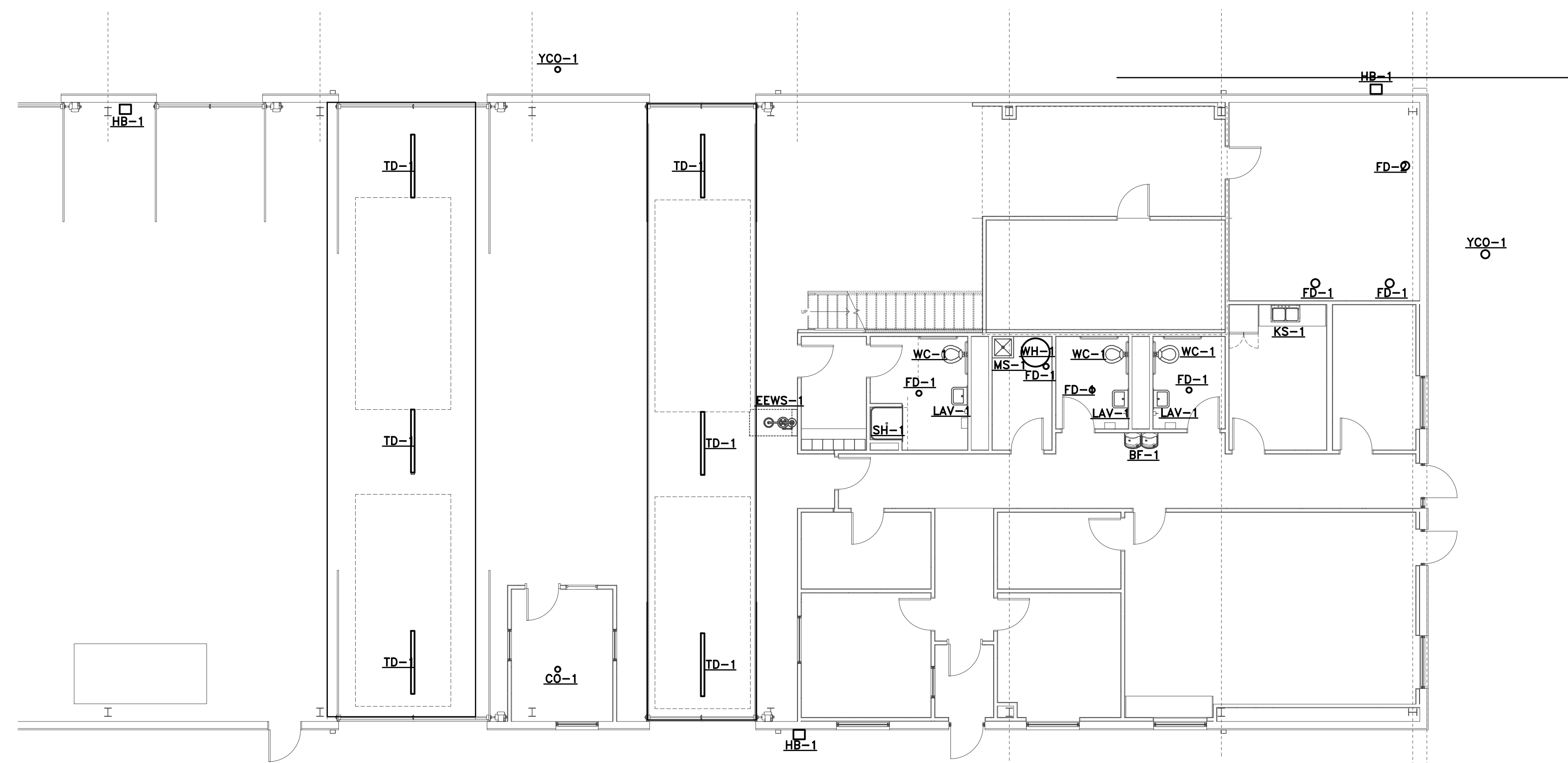
FIRST FLOOR - SANITARY SEWER AND VENT
SCALE 1/8" = 1'-0"

- 26) UNDER FLOOR RADIATION CRITERIA:**
1. UNDER FLOOR TUBING SIMILAR TO WATTS RADIANT PEX-AL COILS.
 2. MANIFOLD FOR A TOTAL OF (12) CIRCUITS. CIRCUITS SHALL COORDINATE WITH UNDER GROUND PIPING AND TRENCH DRAINS. SIMILAR TO WATTS CUSTOM TUBULAR MANIFOLDS - PEX COMPRESSION.
 3. HEATING DENSITY SHALL BE FOR SNOW MELT.
 4. BOILER AND BOILER SYSTEM SHALL BE SELECTED AND DESIGNED BY CONTRACTOR BASED ON RADIANT SYSTEM. BOILER SHALL BE GAS FIRED, 96% AFUE, CONDENSING BOILER PROVIDED WITH OUT SIDE AIR AND FLUE VENTS.

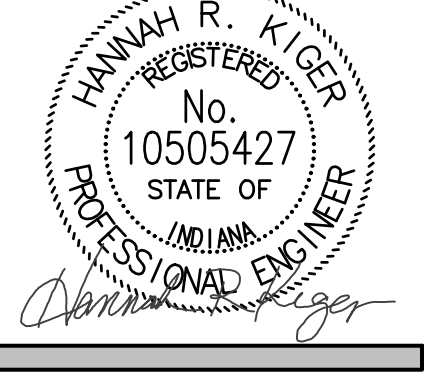
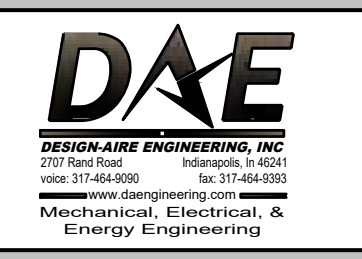
- 27) KEYED PLAN NOTES:**
1. 3" SANITARY SEWER FROM FLOOR DRAIN.
 2. 2" SANITARY SEWER AND 2" VENT FROM BREAK ROOM SINK.
 3. 2" SANITARY SEWER AND 2" VENT FROM LAVATORY.
 4. 3" SANITARY SEWER AND 2" VENT FROM WATER CLOSETS.
 5. 2" SANITARY SEWER AND 2" VENT FROM MOP SINK.
 6. 2" SANITARY SEWER AND 2" VENT FROM ELECTRIC WATER COOLER.
 7. 3" VENT TO ROOF.
 8. 4" SANITARY SEWER FROM YARD CLEAN OUT.
 9. 4" SANITARY SEWER CONTINUED ON CIVIL DRAWINGS. COORDINATE FINAL LOCATION.
 10. 4" SANITARY SEWER FROM CLEAN OUT.
 11. 4" SANITARY SEWER FROM TRENCH DRAIN.
 12. 3" SANITARY SEWER AND 2" VENT FROM SHOWER.
 13. ROUTE DRAIN FROM WATER HEATER TO FLOOR DRAIN.
 14. 1 1/2" DOMESTIC COLD WATER CONTINUED ON CIVIL DRAWINGS. COORDINATE FINAL LOCATION.
 15. WATER HAMMER ARRESTOR, SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. SIMILAR TO WATTS.
 16. 1 1/2" COLD WATER UP TO REDUCING PRESSURE BACKFLOW PREVENTER.
 17. 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO SINK.
 18. 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO LAVATORY.
 19. 1 1/2" COLD WATER DOWN TO FLUSH VALVE.
 20. 3/4" COLD WATER AND 3/4" HOT WATER UP FROM WATER HEATER.
 21. 3/4" COLD WATER DOWN TO ELECTRIC WATER COOLER.
 22. 3/4" COLD WATER DOWN TO HOSE BIBB.
 23. 1 1/2" COLD WATER DOWN TO EMERGENCY EYE WASH AND SHOWER.
 24. 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO SHOWER.
 25. 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO MOP SINK.



FIRST FLOOR - DOMESTIC WATER SUPPLY PLAN
SCALE 1/8" = 1'-0"



EQUIPMENT LAYOUT
SCALE 1/8" = 1'-0"



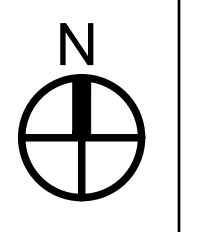
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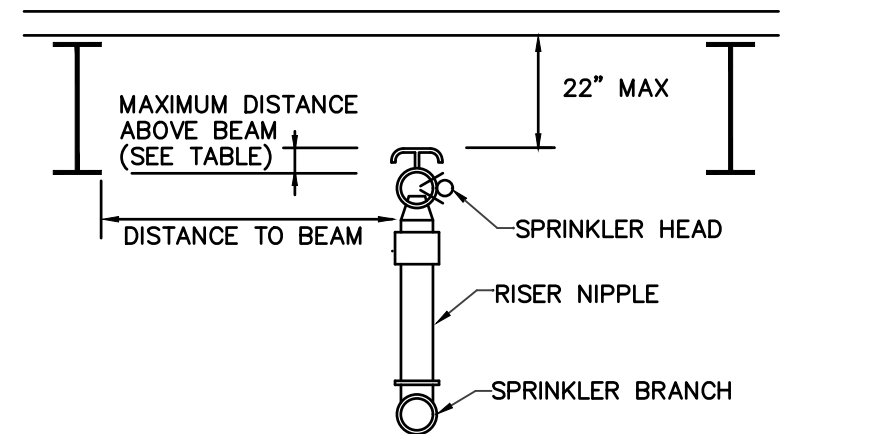
SHEET NAME
FIRST FLOOR
PLUMBING
PLANS

A	B
C	D



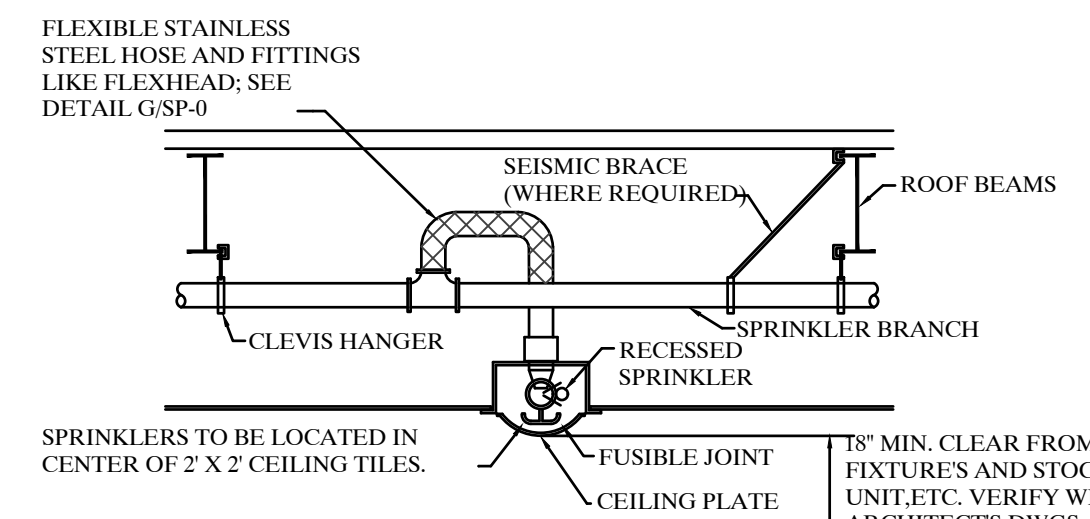
SPRINKLER SYSTEM NOTES

- FIRE PROTECTION CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND FULLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. ANY DEVIATIONS OR DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. BID SHALL INCLUDE ALL COSTS DUE TO EXISTING CONDITIONS.
- FIRE PROTECTION CONTRACTOR SHALL DESIGN AND INSTALL THE REQUIRED NEW SYSTEM OR MODIFICATIONS TO THE EXISTING HYDRAULICALLY CALCULATED WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE DEMISED SPACE INDICATED HEREIN THESE DOCUMENTS. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR OCCUPANCY LISTED, UNLESS NOTED OTHERWISE PROVIDING A SPRINKLER DENSITY OF .10 GPM SQ FT OVER THE MOST REMOTE 1500 SQ.FT.
- FIRE PROTECTION CONTRACTOR SHALL PREPARE AND FILE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH VECTOR, THE INSURANCE RATING AGENCY, THE ARCHITECT, AND ALL STATE, LOCAL AND MUNICIPAL AUTHORITIES IN JURISDICTION, AND SHALL RECEIVE ALL NECESSARY APPROVALS PRIOR TO COMMENCEMENT OF ANY INSTALLATION WORK.
- CONSTRUCTION DOCUMENTS FOR FIRE PROTECTION / SPRINKLER SYSTEMS ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION BY SPRINKLER CONTRACTOR UNDER SEPARATE PERMIT APPLICATION. FIRE PROTECTION SYSTEMS ARE TO BE MAINTAINED IN ACCORDANCE WITH ORIGINAL INSTALLATION STANDARDS. REQUIRED FIRE PROTECTION SYSTEM SHALL BE MODIFIED AS NECESSARY TO MAINTAIN PROTECTION WHENEVER BUILDING IS ALTERED.
- THE SPRINKLER CONTRACTOR SHALL SECURE FLOW TEST DATA FROM THE HYDRANT(S) NEAREST THE PROJECT SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM LANDLORD OR CITY RECORDS, PERFORM THE NECESSARY FLOW TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE THE CHARACTER OF THE AVAILABLE WATER SUPPLY, AND SUBMIT THAT DATA WITH THE CALCULATIONS.
- NEW SPRINKLER HEADS SHALL BE APPROVED STANDARD TYPES, DESIGNED FOR LISTED COVERAGE. CHROME PLATED "TYCO", "GRINNELL", "WING", "STAR" OR EQUAL - SEE PLANS FOR SPRINKLER HEAD TYPES.
- ALL SPRINKLER WORK SHALL COMPLY WITH ALL NFPA-13 RECOMMENDATIONS, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OWNER, LOCAL FIRE RATING ORGANIZATION, FIRE AND/OR BUILDING DEPARTMENTS AND ALL AUTHORITIES IN JURISDICTION.
- ALL SPRINKLER SYSTEM WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE OWNER'S INSURERS AND SHALL BE DESIGNED TO SECURE THE BEST POSSIBLE INSURANCE RATES ON THE BUILDING AND ITS CONTENTS.
- FIRE PROTECTION CONTRACTOR SHALL FILE FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL REQUIRED TEST AND DRAIN CONNECTIONS, WHETHER OR NOT THEY ARE INDICATED HEREON THESE PLANS.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ALARM INITIATING DEVICES AND SUPERVISORY DEVICES, AND SHALL COORDINATE THE ELECTRICAL REQUIREMENTS FOR THEM WITH THE E.C. AND/OR FIRE ALARM CONTRACTOR FOR THEIR CONNECTION TO THE FIRE ALARM SYSTEM.
- UPON COMPLETION OF THE INSTALLATION, FIRE PROTECTION CONTRACTOR SHALL DEMONSTRATE TO THE SATISFACTION OF THE AUTHORITIES IN JURISDICTION AND THE OWNER'S INSURANCE UNDERWRITERS, THE OPERATION OF THE ENTIRE PROTECTION SYSTEM, INCLUDING ALL ALARM INITIATING DEVICES AND SYSTEM SUPERVISORY DEVICES.
- PRIOR TO REQUESTING FINAL APPROVAL, THE SPRINKLER CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE CODE OFFICIAL INDICATING THAT THE FIRE PROTECTION SYSTEM HAS BEEN INSTALLED PER APPROVED PLANS, AND HAS BEEN TESTED AS REQUIRED, ANY EXCEPTIONS FROM THE DESIGN STANDARDS SHALL BE NOTED AND COPIES OF APPROVALS ATTACHED TO THE FORE MENTIONED WRITTEN STATEMENT.
- ANY DUCTS OR OTHER OBSTRUCTIONS BELOW SPRINKLER HEADS WHICH EXCEED 4"-0" SHALL BE PROTECTED WITH A SEPARATE SPRINKLER LINE UNDER THE OBSTRUCTION.
- COORDINATE INSTALLATION OF SPRINKLER WORK WITH ALL OTHER TRADES INVOLVED. PROVIDE ADEQUATE CLEARANCE AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE.
- EARTHQUAKE BRACING TO BE PROVIDED AS PER CODE AND/OR AHL.
- ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS TO BE INSTALLED PER CODES AND STANDARDS. ALL PIPING TO EXTERIOR TO BE GALVANIZED SCHEDULE 40.
- ALL HANGERS TO BE INSTALLED PER NFPA AND OTHER APPLICABLE CODES, REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- PIPING TO BE PITCHED:
WET PIPE SYSTEMS - LEVEL OR SLIGHT PITCH TO DRAIN.
DRY PIPE SYSTEMS - MAINS & X-MAINS - 1/4" IN 10'
- ALL SYSTEM COMPONENTS AND MATERIALS TO BE U.L LISTED AND INSTALLED PER NFPA AND MANUFACTURE'S LISTING.
- PROVIDE SPARE HEAD CABINET WITH A MINIMUM OF 2 OF EACH TYPE OF SPRINKLER HEAD USED.
- SYSTEM TO BE HYDROSTATICALLY TESTED @ 200PSI FOR 2 HOURS - PER N.F.P.A. #13.
- LOW POINTS OF SYSTEM SHALL HAVE PROVISIONS FOR PROPER DRAINAGE.



Distance from Sprinkler to Side of Beam	Maximum Allowable Distance Deflector above Bottom of Beam
Less than 1 ft	0 in.
1 ft to less than 1 ft 6 in	2 1/2 in.
1 ft 6 in to less than 2 ft	3 1/2 in.
2 ft to less than 2 ft 6 in	5 1/2 in.
2 ft 6 in to less than 3 ft	7 1/2 in.
3 ft to less than 3 ft 6 in	9 1/2 in.
3 ft 6 in to less than 4 ft	12 in.
4 ft to less than 4 ft 6 in	14 in.
4 ft 6 in to less than 5 ft	16 1/2 in.
5 ft to less than 5 ft 6 in	18 in.
6 ft 6 in to less than 6 ft	20 in.
6 ft to less than 6 ft 6 in	24 in.
6 ft 6 in to less than 7 ft	30 in.
7 ft to less than 7 ft 6 in	35 in.

A UPRIGHT SPRINKLER INSTALLATION
SCALE: NO SCALE
(TYPICAL FOR ALL AREAS OF EXPOSED STRUCTURE CONSTRUCTION)



B CONCEALED SPRINKLER HEAD INSTALLATION
SCALE: NO SCALE
(TYPICAL FOR ALL AREAS OF FINISHED CEILING CONSTRUCTION)

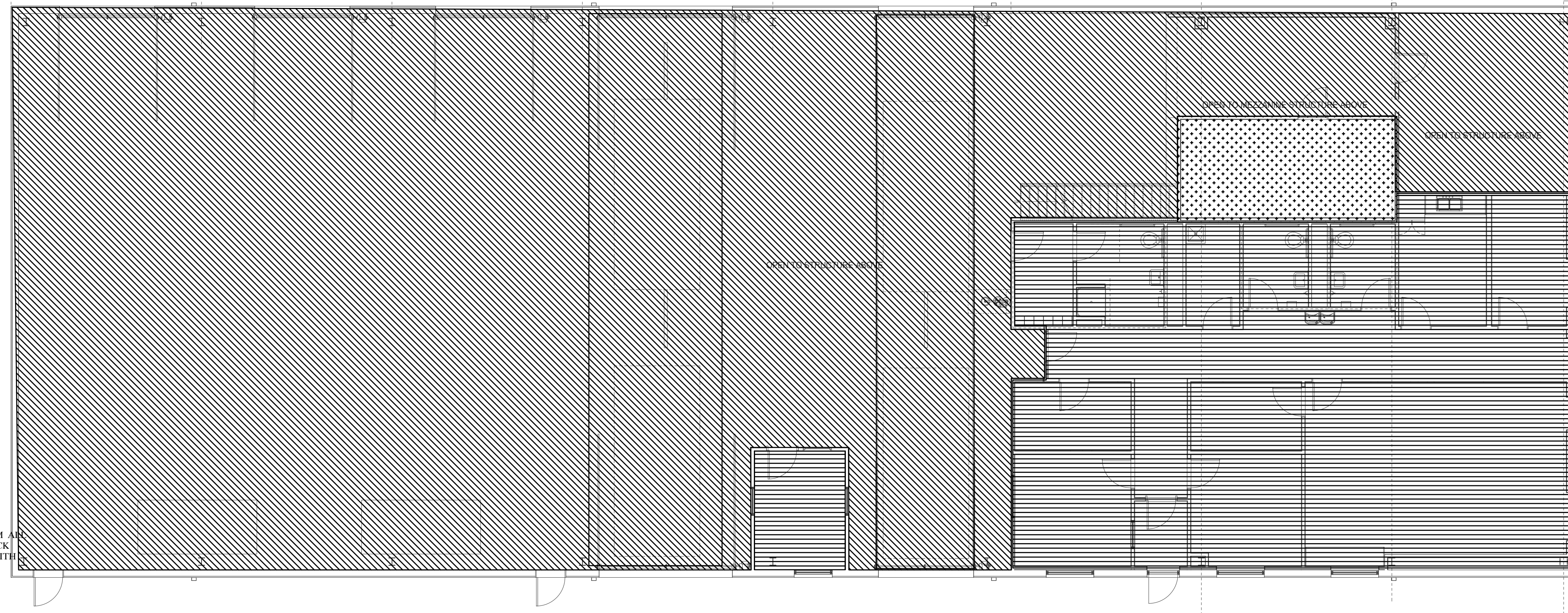
APPLICABLE CODE IS NFPA 13

**THERE IS AN EXISTING SPRINKLER SYSTEM
MODIFY SPRINKLER HEAD LOCATIONS AS NECESSARY
TO MEET CODE**

LEGEND:

[Symbol]	SINGLE STORY - SUSPENDED CEILING
[Symbol]	SINGLE STORY - DRYWALL CEILING
[Symbol]	STAIR WELL
[Symbol]	ELEVATOR
[Symbol]	KITCHEN HOOD
[Symbol]	DUMB WAITER
[Symbol]	KITCHEN COOLER/ FREEZER
[Symbol]	EXPOSED TO DECK
[Symbol]	ENCLOSED PATIO
[Symbol]	PATIO

FIRST FLOOR - FIRE PROTECTION PLAN
SCALE 1/8" = 1'-0"



LEGEND:

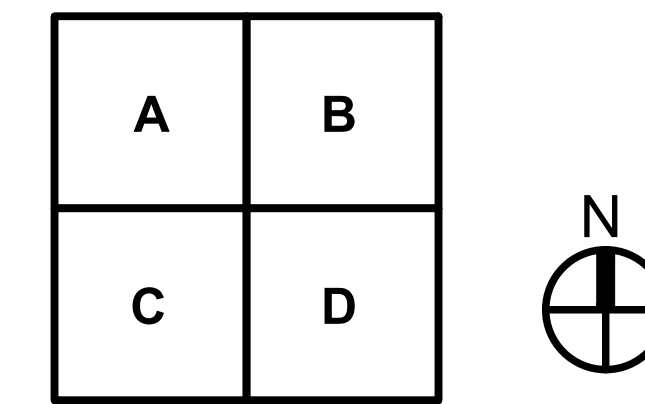
[Symbol]	SINGLE STORY - SUSPENDED CEILING
[Symbol]	TWO STORY - OPEN TO DECK
[Symbol]	STORAGE ROOM

DRAWINGS AND CALCULATIONS

- THE SPRINKLER CONTRACTOR SHALL PREPARE SUBMITTAL DRAWINGS AND HYDRAULIC CALCULATIONS FOR THE SPACE IN ACCORDANCE WITH THE OWNER'S INSURANCE COMPANY, AND LOCAL FIRE AUTHORITY REQUIREMENTS.
- THE SPRINKLER SYSTEM SHALL BE DESIGNED FOR LIGHT HAZARD OCCUPANCY, PROVIDING A DENSITY OF 0.1 GPM/SQ OVER THE MOST REMOTE 1500 SQUARE FOOT AREA.
- THE SPRINKLER CONTRACTOR SHALL SECURE FLOW TEST DATA FROM THE HYDRANT(S) NEAREST THE PROJECT SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM LANDLORD OR CITY RECORDS, PERFORM THE NECESSARY FLOW TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE THE CHARACTER OF THE AVAILABLE WATER SUPPLY, AND SUBMIT THAT DATA WITH THE CALCULATIONS.

NOTE:

THIS SPRINKLER DRAWING IS INTENDED FOR PRICING PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE A COMPLETE SET OF WORKING FIRE PROTECTION DRAWINGS IN ACCORDANCE WITH NFPA-13, AND ALL STATE AND LOCAL REQUIREMENTS. PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS USING THE CURRENT SITE SPECIFIC FLOW DATA.

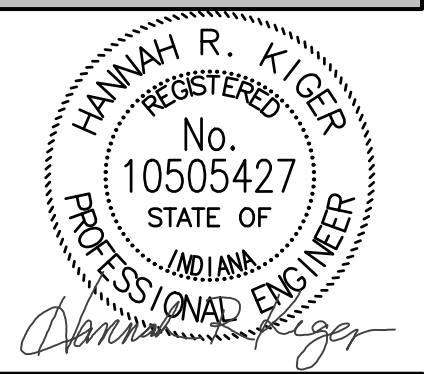
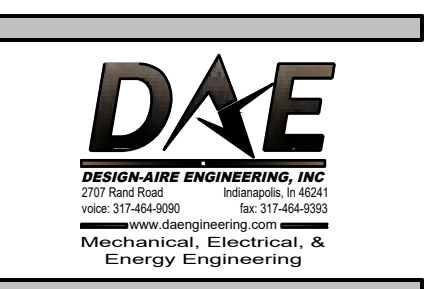


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PROJECT: 24020
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SHEET NAME
FIRST FLOOR
FIRE PROTECTION
PLAN



REVISIONS:

#	Date	Desc.

100% CONSTRUCTION DOCUMENTS
PROJECT: 24020
DATE: 04-22-2024
DRAWN BY: DAE

SHEET NAME
ELECTRICAL SYMBOLS

E001

GENERAL NOTES

- INSTALLATION SHALL COMPLY WITH 2012 INDIANA ELECTRIC CODE. ALL ITEMS/ EQUIPMENT INSTALLED EITHER IN PART OR ASSEMBLY SHALL BE UL/ NRTL LISTED PER CODE.
- SUBMIT SUBMITTALS ON ALL EQUIPMENT, DEVICES AND MATERIALS.
- COORDINATE WITH OTHER DISCIPLINES AND OWNER TO VERIFY FINAL LOCATIONS OF DEVICES AND CONNECTIONS.
- SLOPED PIPING HAS RIGHT OF WAY OVER CONDUIT.
- INSTALL PENETRATION FIRESTOPPING AS INDICATED AND REQUIRED.
- HEIGHTS OF SUSPENDED EQUIPMENT SHALL BE TO THE BOTTOM OF THE UNIT.
- HEIGHTS OF WALL MOUNTED EQUIPMENT SHALL BE TO THE CENTER OF THE UNIT.
- IF MOUNTING HEIGHT IS NOT INDICATED, INSTALL AS HIGH AS POSSIBLE.
- INSTALL SLEEVES AS NECESSARY:
 - SLEEVES FOR RACEWAYS AND CABLES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, ASTM A53/ A53M TYPE E, GRADE B WITH PLAIN ENDS.
 - FOR RECTANGULAR OPENINGS USE GALVANIZED SHEET STEEL WITH A THICKNESS OF 0.052 INCHES FOR OPENINGS SMALLER THAN 50 INCHES IN PERIMETER AND 0.138 INCHES FOR THOSE LARGER.
 - SLEEVES SHALL BE FLUSH WITH WALLS.
 - EXTEND FLOOR SLEEVES 2" ABOVE FINISHED FLOOR LEVEL.
 - IF NECESSARY GROUT SPACE OUTSIDE OF SLEEVE IN CONCRETE AND MASONRY WALLS AND FLOOR.
 - IN NON RATED FIRE WALLS AND FLOORS SEAL ANNULAR SPACE WITH JOINT SEALANT.
 - ALWAYS MAINTAIN FIRE RATING OF ASSEMBLY.
- IF REQUIRED FOR HYDROSTATIC PRESSURE REASONS, INSTALL EPDM SEALING ELEMENTS WITH TWO PLASTIC PRESSURE PLATES AND STAINLESS STEEL CONNECTING BOLTS AND NUTS.
- GROUT SHALL BE NONMETALLIC SHRINK-RESISTANT TYPE THAT IS NONSTAINING AND NON CORROSIVE.
- EXTEND FLOOR SLEEVES 2" ABOVE FINISHED FLOOR.
- MAINTAIN FIRE RATING OF FIRE-RATED ASSEMBLIES.
- SEAL PENETRATION OF INDIVIDUAL RACEWAYS AND CABLES WITH FLEXIBLE BOOT-TYPE FLASHING.

SWITCHES

- \$ SWITCH, SINGLE POLE
- \$3 SWITCH, THREE-WAY
- \$4 SWITCH, FOUR-WAY
- \$0 SWITCH, DIMMER
- \$OS SWITCH, DOOR SECURITY
- \$K SWITCH, KEYED
- \$P SWITCH, PILOT LIGHT
- \$a SWITCH, CONTROLLING FIXTURES MARKED WITH a
- \$T SWITCH, MANUAL TIMER
- \$TT TT SWITCH FOR MOTORS 1/2HP OR SMALLER
- [] PUSH BUTTON CONTROL STATION
- [] PUSH BUTTON "UP-DOWN-DN"
- [] PANIC BUTTON
- [] MOTION DETECTOR
- [] SECURITY GLASS BREAK DETECTOR
- Ⓢ SINGLE CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWS1277UX(COLOR).
- Ⓢ2 DUAL CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWD1277UX(COLOR).
- ⓈU LOW VOLTAGE ULTRASONIC CEILING SENSOR 'SCHNEIDER ELECTRIC' #SLSCUS2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK)
- Ⓢ LOW VOLTAGE CEILING MOUNT PIR OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLSCJ2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK).
- Ⓢ/T LOW VOLTAGE CEILING MOUNT DUAL-TECHNOLOGY OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLSCDT2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK).

COMMUNICATION / SECURITY

- ▼ TELEPHONE OUTLET BOX AND COVER PLATE
- ▼P TELEPHONE OUTLET BOX, AND COVER PLATE, PUBLIC
- ▶ TELEPHONE OUTLET FLOOR BOX WITH COVER PLATE
- ▼ TELEDATA OUTLET
- ▶ TELEDATA OUTLET FLOOR BOX WITH COVER PLATE
- ▽ DATA OUTLET
- Ⓢ SPEAKER, FLUSH CEILING MOUNTED
- ⓈS SPEAKER, WALL MOUNTED
- ⓈX SPEAKER HORN TYPE, WALL MOUNTED
- PA SOUND SYSTEM AMPLIFIER
- ⓈC INTERCOMM HANDSET
- ⓈP INTERCOMM MASTER PANEL
- ⓈPS INTERCOMM SYSTEM POWER SUPPLY
- ◆ DEMO: POINT WHERE EXISTING TO REMAIN STOPS AND DEMOLITION BEGINS
REVISED: POINT WHERE NEW WORK CONNECTS TO EXISTING TO REMAIN
- [] SECURITY CAMERA / [] SECURITY CAMERA (360')
- [R] AUDIO/VISUAL WALL DEVICE
- [U] AUDIO/VISUAL WALL DEVICE

LIGHTS

- SURFACE MOUNTED OR RECESSED LED FIXTURE
- WALL MOUNTED LED FIXTURE
- [] SURFACE/RECESSED 1 x 4 LED LIGHT FIXTURE
- [] SURFACE/RECESSED 2 x 4 LED LIGHT FIXTURE
- ⊕ PHOTOCELL
- ⊗ EXIT LIGHT FIXTURE CEILING MOUNTED
- ⊗-W EXIT LIGHT FIXTURE WALL MOUNTED
- [] LIGHT FIXTURE CONNECTED TO EMERGENCY POWER
- [] BATTERY OPERATED EMERGENCY LIGHT - WALL MOUNTED
- [] POLE MOUNTED LIGHT FIXTURE - SINGLE HEAD
- [] SURFACE / RECESSED LED FIXTURE
- [] WALL MOUNTED LED FIXTURE
- [] BOLLARD LIGHT FIXTURE
- [] FLOOD LIGHT GROUND MOUNTED

WIRE

- ⤵ HOMERUN
- or WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED UNDER OR IN FLOOR
- WIRING EMERGENCY
- A|B|C A= GROUND; B= NEUTRAL; C= HOT
- WIRING TURNED UP
- WIRING TURNED DOWN
- ≡ WIREMOLD APPENDED NOTE DENOTES TYPE
- CABLE TRAY
- HEAT TRACE CABLE
- [] CARD KEY ACCESS CONTROL
- ⊕ CEILING MOUNTED FIRE ALARM HORN / STROBE

FIRE

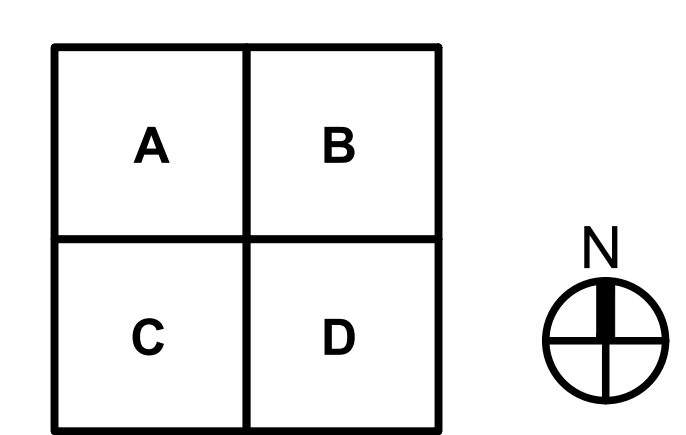
- ⊙ IONIZATION SMOKE
- ⊙ THERMAL DETECTOR 135' FIXED
- ⊙ PHOTO DETECTOR PHOTO ELECTRIC
- [] PULL STATION
- ⊕ STROBE UNIT 30CD
- ⊕ FIRE ALARM, IONIZATION DUCT DETECTOR
- ⊕ CO COMBINATION PHOTOELECTRIC & CARBON MONOXIDE DETECTOR
- [] FIRE ALARM CONTROL PANEL
- [] FIRE ALARM ANNUNCIATOR PANEL
- ◆ FIRE ALARM, TAMPER SWITCH
- ◆ FIRE ALARM, FLOW SWITCH
- [] HORN STROBE
- [] FIRE ALARM, SPEAKER
- [] FIRE ALARM, SPEAKER STROBE

POWER

- ⊕ DUPLEX RECEPTACLE
- ⊕ RECEPTACLE SPECIAL, NEMA CONFIGURATION
- ⊕ FLUSH FLOOR OUTLET
- [] FLUSH FLOOR BOX, THREE GANG
- [BAT] EMERGENCY BATTERY UNIT
- RECEPTACLE, SINGLE
- RECEPTACLE, DUPLEX
- ⊕ RECEPTACLE CEILING MOUNTED, DUPLEX
- ⊕ RECEPTACLE, QUADPLEX
- ⊕ WP RECEPTACLE, DUPLEX WEATHERPROOF ('WHILE-IN-USE' TYRE)
- ⊕ RECEPTACLE ON EMERGENCY CIRCUIT, RECEPTACLE AND PLATE SHALL BE RED
- ⊕ TL RECEPTACLE, DUPLEX, EMERGENCY RED TWIST LOCK
- ⊕ GFI RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER
- ⊕ U USB-A & C RECEPTACLE
- [] DOORBELL PUSH BUTTON
- [] DOOR BELL CHIME
- [] LV TRANSFORMER, 120V TO LOW VOLTAGE
- [] SV SECURITY ALARM POINT DOOR SWITCH
- [] SECURITY DOOR LOCK RELEASE - ELECTRIC STRIKE
- [] SECURITY MOTION DETECTOR
- [] SECURITY ALARM BELL
- ⊕ CLOCK OUTLET
- ⊕ CLOCK OUTLET WITH CONTROL STATION
- ⊕ TELEVISION OUTLET (RG6)
- ⊕ JUNCTION BOX 4 11/16 x 4 11/16 x 2 1/8" UNLESS NOTED OTHERWISE
- [MDP] MAIN DISTRIBUTION OR POWER PANELBOARDS
- [] FLUSH OR SURFACE MOUNTED BRANCH PANELBOARDS 120/280V
- ⊕ ELECTRICAL MOTOR CONNECTION - VERIFY HP, AND PHASE
- [] DISCONNECT SWITCH
- [] MOTOR CONTROLLER WITH AUX CONTACTS HOA, PB, PILOT AND CONTROL TRANSFORMER.
- ⊕ TELEVISION OUTLET (RG6 AND 2-CATS)
- [] FUSED DISCONNECT SWITCH
- [] ELECTRICAL TRANSFORMER
- [] NON-FUSED DISCONNECT SWITCH RATING AS NOTED
- [] CIRCUIT POWER TRANSFORMER 480V PRIMARY, 120V SECONDARY
- [] CIRCUIT BREAKER
- [] FUSE
- [] GROUND

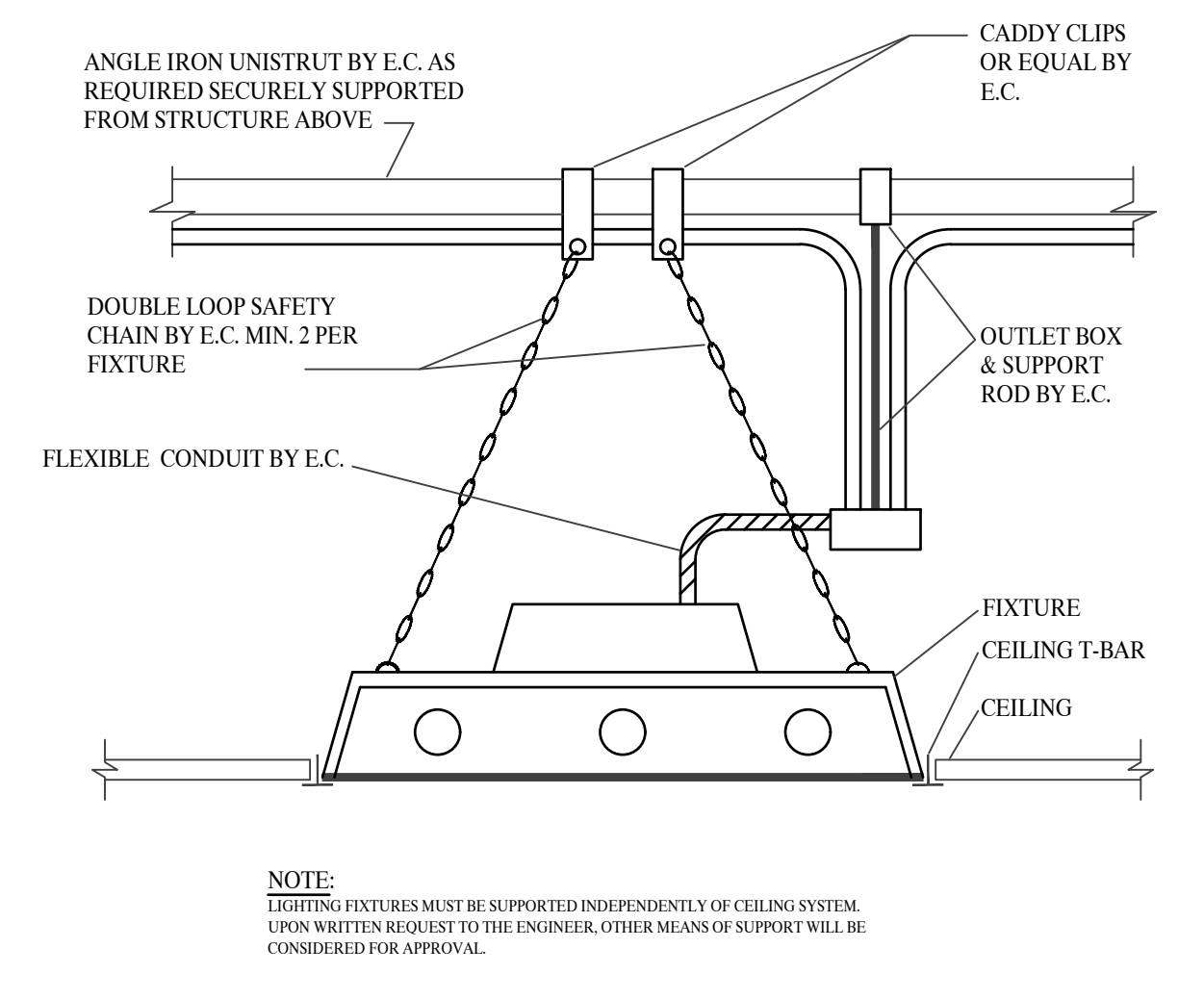
DRAWING INDEX

DRAWING No.	DRAWING TITLE
E001	ELECTRICAL SYMBOLS
E002	ELECTRICAL DETAILS
E003	ELECTRICAL SPECIFICATIONS
E004	ELECTRICAL SCHEDULES
E101	LIGHTING AND POWER PLAN
E201	MEZZANINE - POWER AND LIGHTING PLAN
E300	SITE PLAN - POWER

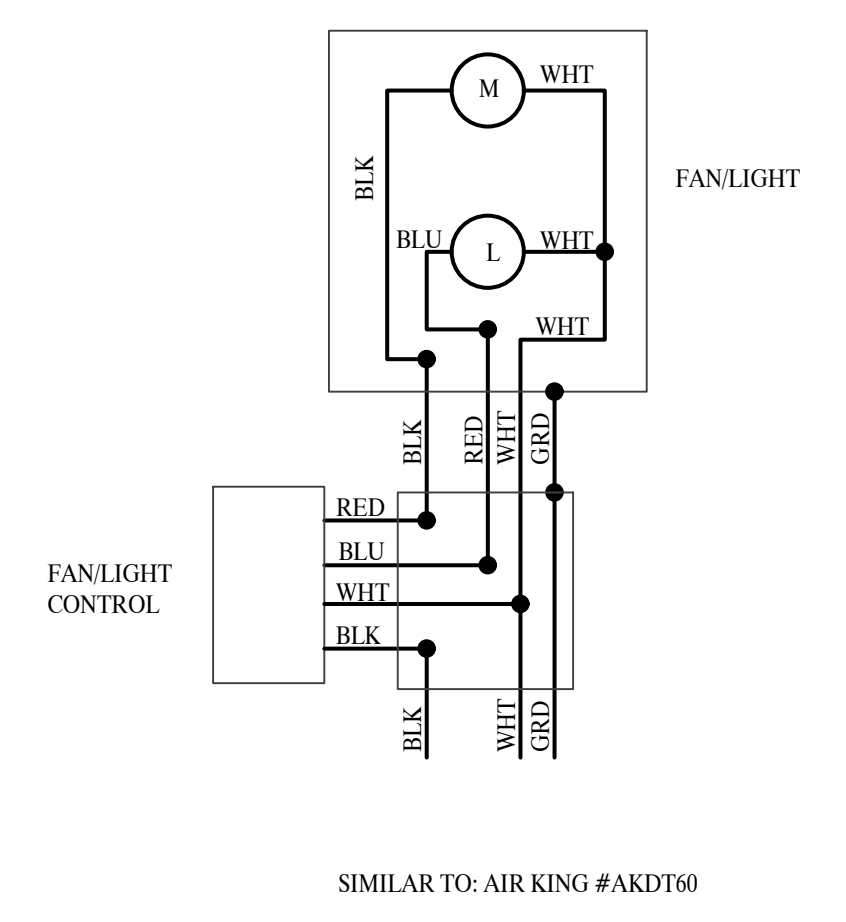


CONDUCTOR INSULATION AND MULTICONDUCTOR SCHEDULE TABLE

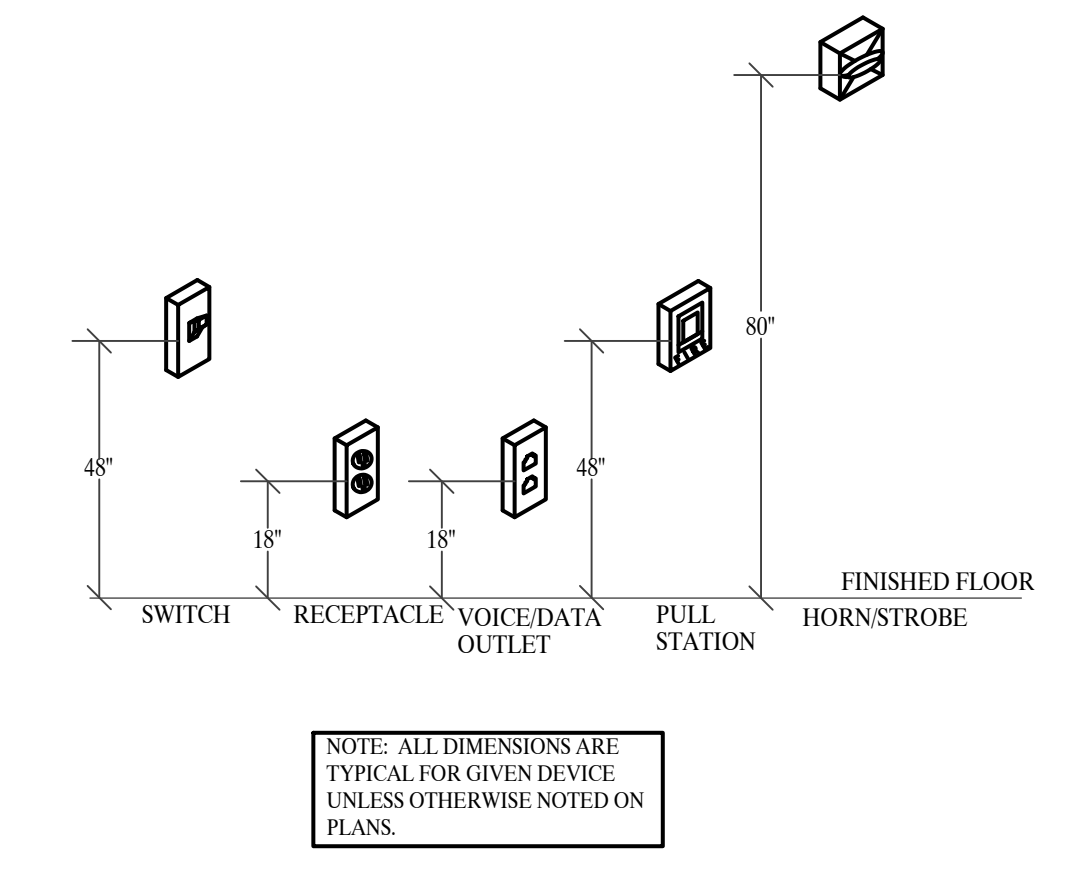
	THIN-THWN	XHHW	MI	NM	MC	UF	AC
SERVICE ENTRANCE	●						
EXPOSED FEEDERS	●						
CONCEALED FEEDERS	●				●		●
FEEDERS BELOW CONCRETE		●					
FEEDERS UNDERGROUND		●					
FEEDERS BELOW RAISED FLOORING	●						
FEEDERS IN CABLE TRAY	●				●		●
EXPOSED BRANCH CIRCUITS	●						
CONCEALED BRANCH CIRCUITS	●				●		●
BRANCH CIRCUITS BELOW CONCRETE	●						
BRANCH CIRCUITS UNDERGROUND		●					
BRANCH CIRCUITS BELOW RAISED FLOORING	●						
BRANCH CIRCUITS IN CABLE TRAY	●				●		●
CLASS 1 CONTROL CIRCUITS	●						
CLASS 2 CONTROL CIRCUITS	●						



A LAY-IN FIXTURES SUPPORT DETAIL
SCALE: NTS



B FAN/ LIGHT SWITCH SCHEMATIC
SCALE: NTS

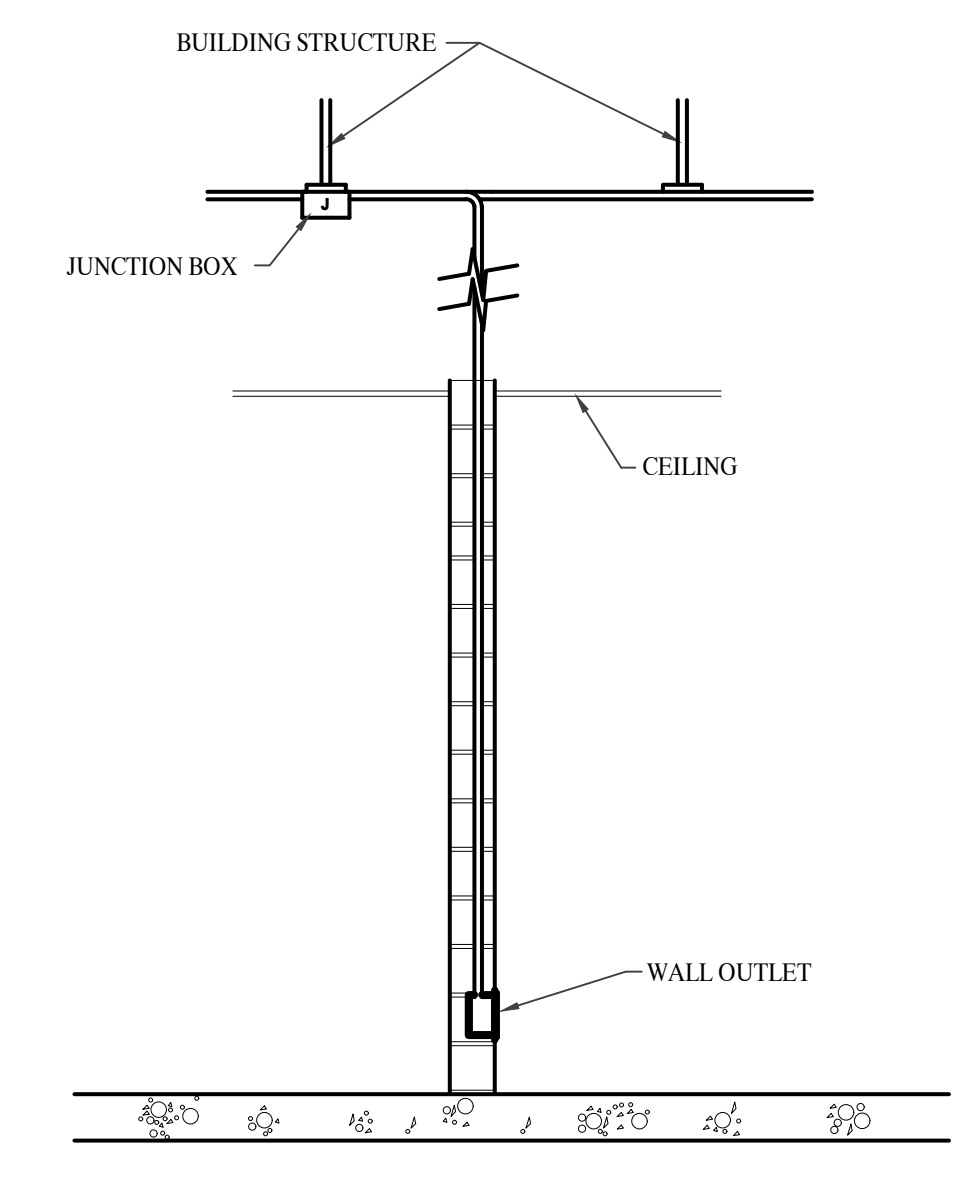


C OPERABLE DEVICE MOUNTING HEIGHT DETAIL
SCALE: NTS

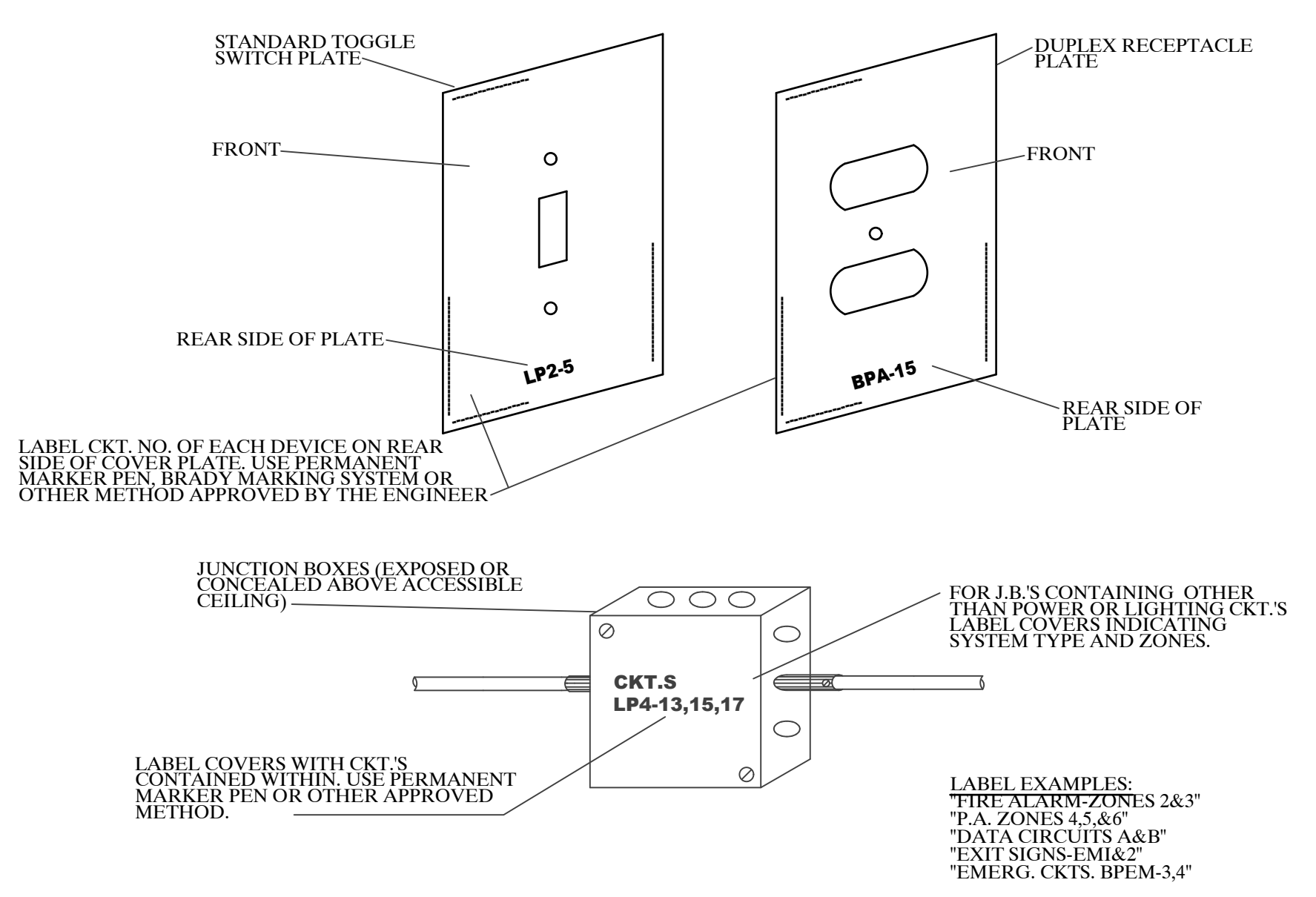
SCHEDULE OF CONDUIT APPLICATIONS

CONDUIT LOCATION OR APPLICATION	CONDUIT TYPE						
	RIGID	INTERMEDIATE	E.M.T.	FLEXIBLE	FLEXIBLE W/ W/IT JACKET	P.V.C. SCHED 40	A.C. CABLE
IN CONCRETE SLAB (NOT LARGER THAN 1")	③						
BELOW LOWEST FLOOR SLAB		③				②	
CONCEALED IN WALLS, ABOVE CEILINGS AND IN FURRED SPACES	③	①					
INSIDE, ABOVE BOTTOM OF ROOF STEEL						○	
FEEDER, POWER AND SIGNAL CIRCUITS RUN EXPOSED	③	③					
FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION				○			
FINAL CONNECTION TO EQUIP. IN DAMP LOCATIONS					○		
SHORT CONNECTIONS WHERE NON-FLEXIBLE CONDUIT IS IMPRACTICAL					○		

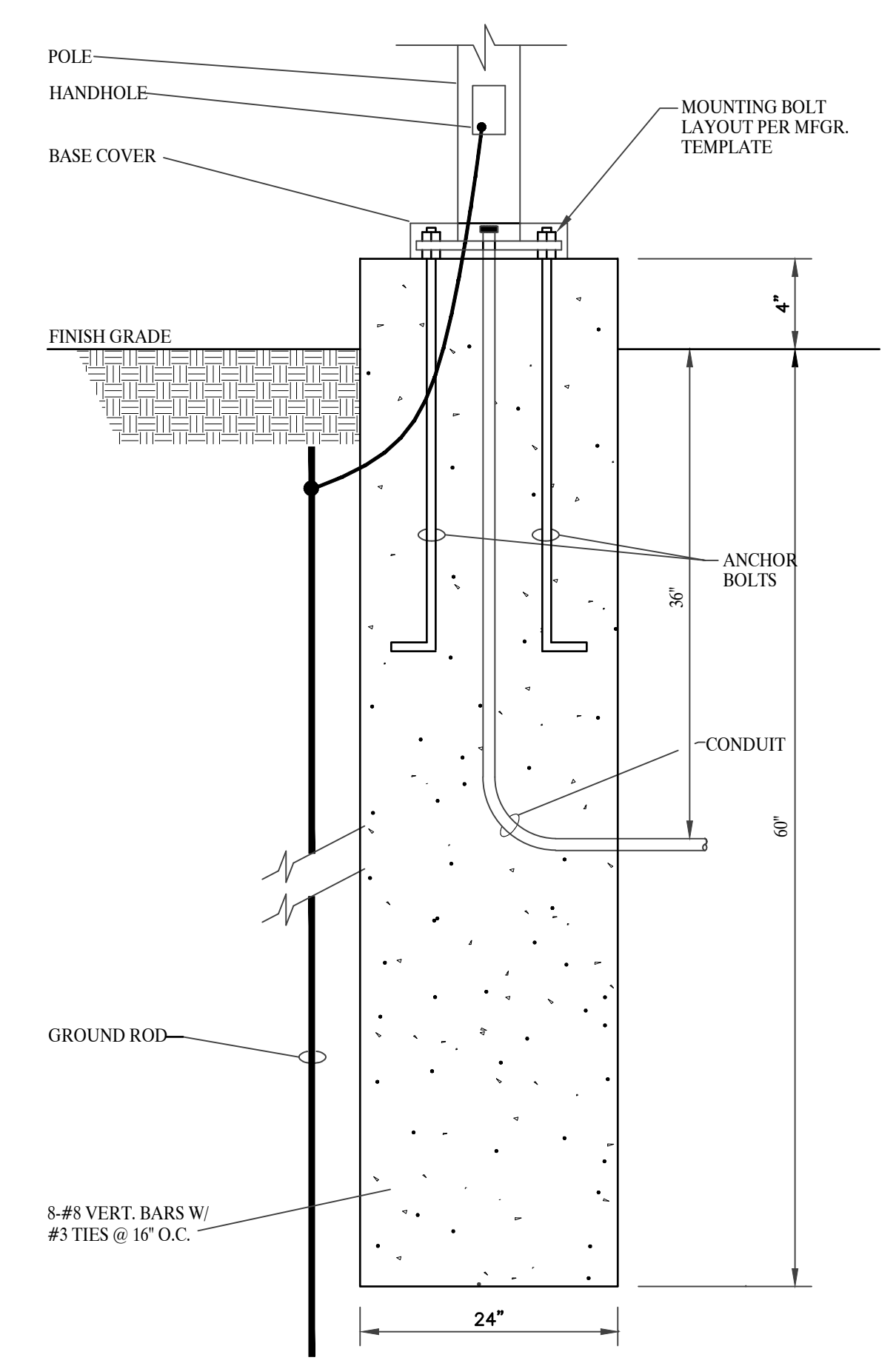
NOTE:
 ① - TYPE OF CONDUIT TO BE USED.
 ② - E.M.T. SHALL NOT BE USED IN SIZES LARGER THAN 2 INCH.
 ③ - CONVERT TO RIGID OR INTER. THROUGH SLAB.
 ○ - USE THREADED FITTINGS ONLY.



D TYPICAL DETAIL FOR OVERHEAD FEED TO INTERIOR WALL OUTLET
SCALE: NTS



E ELECTRICAL IDENTIFICATION DETAIL
SCALE: NTS



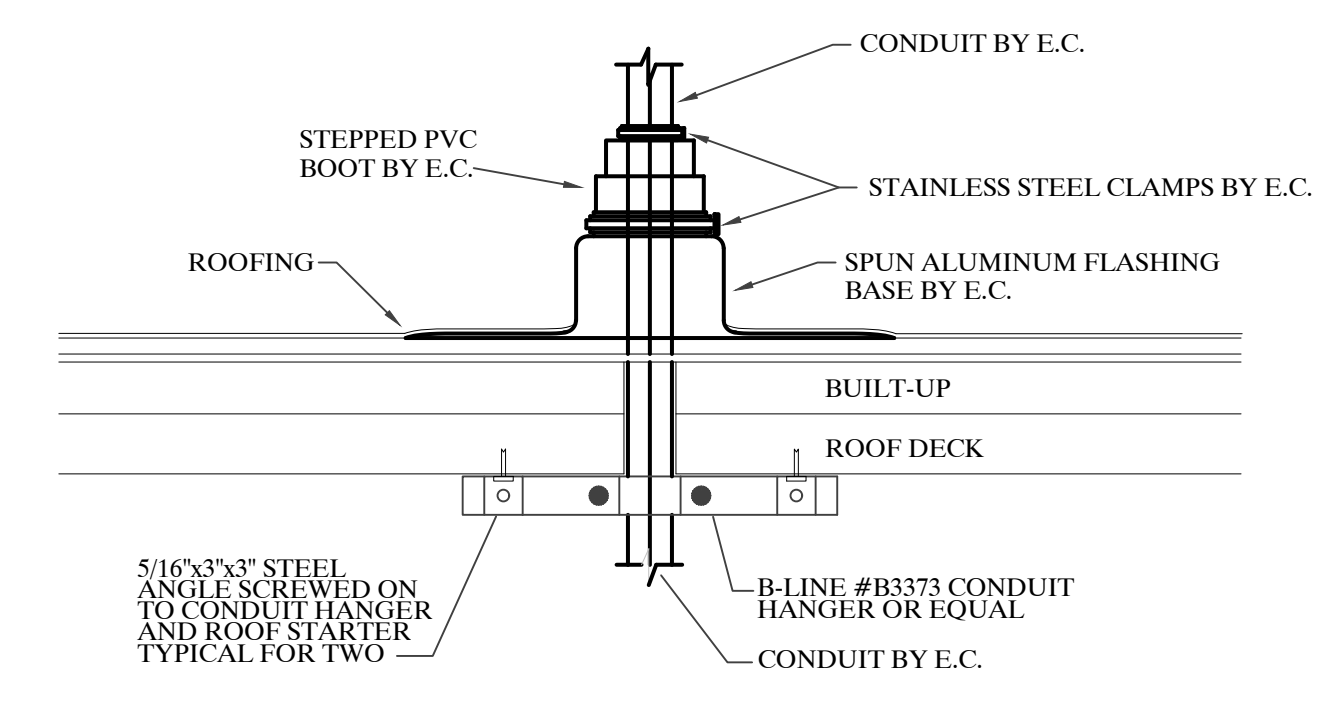
H POLE BASE DETAIL
SCALE: NTS

MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTORS FOR GROUNDING RACEWAY AND EQUIPMENT

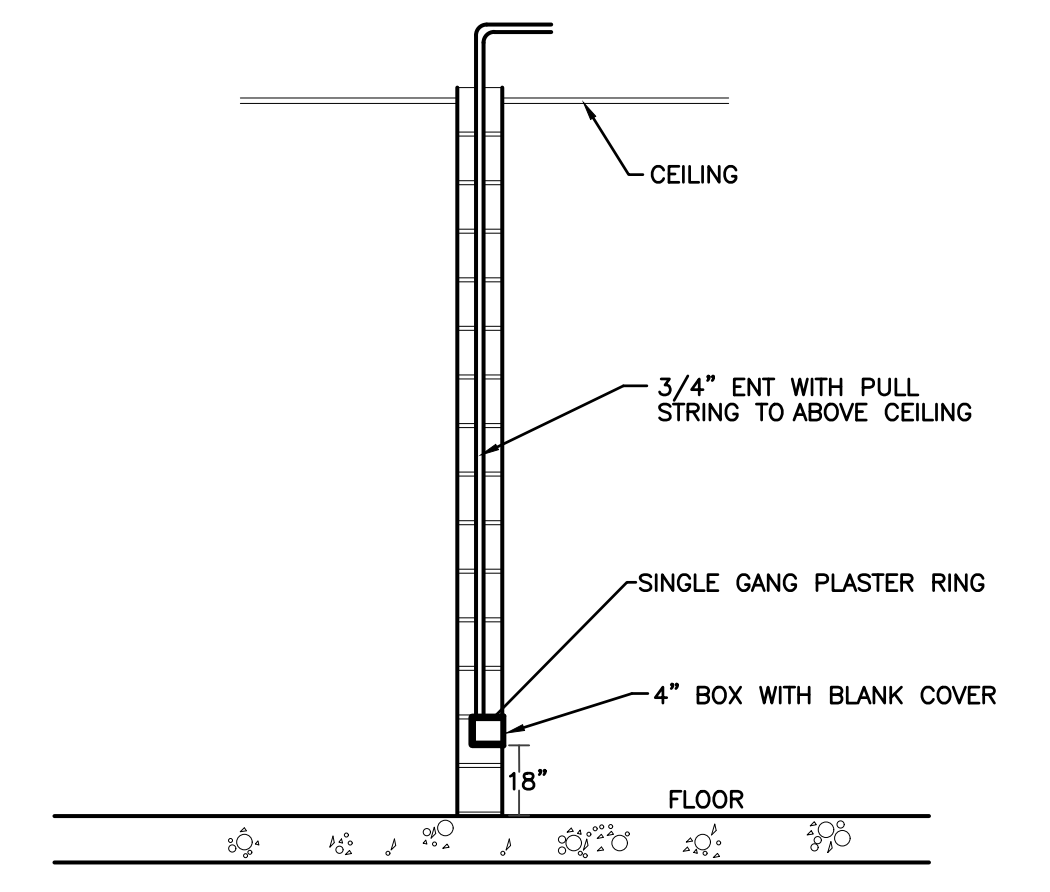
AUTOMATIC OVER CURRENT SETTING (AMPS - NOT EXCEEDING)	SIZE (AWG OR KCMIL)	
	COOPER	ALUMINUM OR COPPER CLAD ALUMINUM
15	14	12
20	12	10
30	10	8
40	8	6
50	6	4
60	4	3
75	3	2
100	2	1
150	1	1/2
200	1/2	3/4
250	3/4	1
300	1	1 1/4
350	1 1/4	1 1/2
400	1 1/2	1 3/4
450	1 3/4	2
500	2	2 1/4
600	2 1/4	2 1/2
700	2 1/2	2 3/4
800	2 3/4	3
900	3	3 1/4
1000	3 1/4	3 1/2
1200	3 1/2	3 3/4
1600	4	4
2000	5	5
2500	6	6
3000	7	7
4000	8	8
5000	9	9
6000	10	10

CONDUCTOR SIZING FOR RHW, THHW, THW, THWN, XHHW, USE, ZW AT 167F

SIZE AWG OR KCMIL	COOPER		ALUMINUM	
	AWG	KCMIL	AWG	KCMIL
12	25	20		
10	35	30		
8	50	40		
6	65	50		
4	85	65		
3	100	75		
2	115	90		
1	130	100		
1/2	150	120		
3/4	175	135		
1/2	200	155		
4/8	230	180		
3/4	255	205		
1/2	285	230		
3/8	310	250		
1/2	335	270		
3/8	360	290		
1/2	390	310		
3/8	420	340		
1/2	460	375		
3/8	500	410		
1/2	545	445		
3/8	590	485		
1/2	635	520		
3/8	685	565		
1/2	735	615		



F TYPICAL ROOF PENETRATION
SCALE: NTS

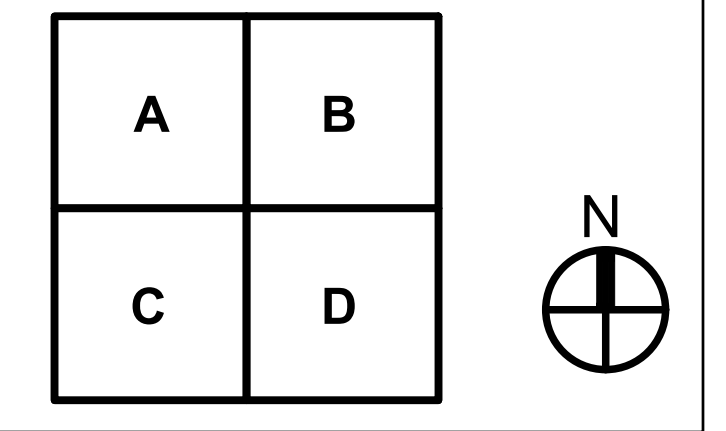


G TYPICAL TV OUTLET ROUGH-IN DETAIL
SCALE: NTS

SCHEDULE OF CONDUIT APPLICATIONS

CONDUIT LOCATION OR APPLICATION	CONDUIT TYPE						
	RIGID	INTERMEDIATE	E.M.T.	FLEXIBLE	FLEXIBLE W/ W/IT JACKET	P.V.C. SCHED 40	A.C. CABLE
IN CONCRETE SLAB (NOT LARGER THAN 1")		③					
BELOW LOWEST FLOOR SLAB		③				②	
CONCEALED IN WALLS, ABOVE CEILINGS AND IN FURRED SPACES	③	①					
INSIDE, ABOVE BOTTOM OF ROOF STEEL						○	
FEEDER, POWER AND SIGNAL CIRCUITS RUN EXPOSED	③	③					
FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION				○			
FINAL CONNECTION TO EQUIP. IN DAMP LOCATIONS					○		
SHORT CONNECTIONS WHERE NON-FLEXIBLE CONDUIT IS IMPRACTICAL					○		

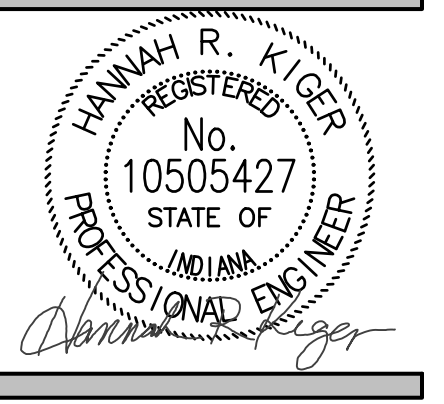
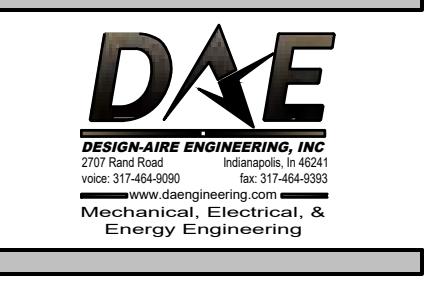
NOTE:
 ○ - TYPE OF CONDUIT TO BE USED.
 ① - E.M.T. SHALL NOT BE USED IN SIZES LARGER THAN 2 INCH.
 ② - CONVERT TO RIGID OR INTER. THROUGH SLAB.
 ③ - USE THREADED FITTINGS ONLY.



REVISIONS:	Date	Disc.

ELECTRICAL SPECIFICATIONS:

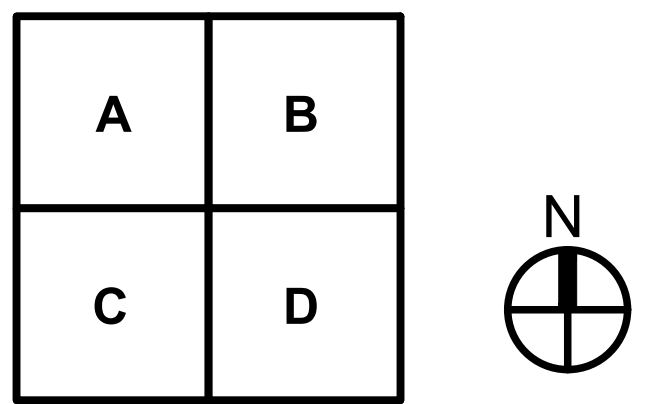
- 1.0 GENERAL
- 1.1 ALL MATERIALS SHALL BE AS SPECIFIED AND APPROVED BY UNDERWRITERS LABORATORIES.
- 1.2 PROVIDE A COMPLETE ELECTRICAL SYSTEM CONDUIT SYSTEM AS INDICATED HEREIN AND/OR ON THE DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE SHALL BE THE MINIMUM REQUIREMENT FOR ALL WORK.
- 1.3 ANY SUBSTITUTIONS TO MANUFACTURERS OF EQUIPMENT LISTED IN THESE SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE OWNERS ENGINEER.
- 1.4 E.C. SHALL SUBMIT SHOP DRAWINGS OF ELECTRICAL SWITCHGEAR TO ARCHITECT/ENGINEER FOR REVIEW.
- 1.5 SHOP DRAWINGS SHALL INCLUDE:
 - A. SINGLE LINE RISER DIAGRAM OF ELECTRICAL SYSTEM.
 - B. COMPLETED SCHEDULES FOR ALL ELECTRIC PANELS.
- 1.6 DRAWINGS AND SPECIFICATIONS: IT SHALL BE THE CONTRACTORS DUTY TO EXAMINE AND HAVE THOROUGH KNOWLEDGE OF THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND SITE WORK DRAWINGS AND SPECIFICATIONS.
- 1.6.1 THE COMMENCEMENT OF WORK UNDER THIS SECTION INDICATED THAT THE CONTRACTOR HAS EXAMINED AND HAS KNOWLEDGE OF THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND SITE WORK DRAWINGS AND SPECIFICATIONS. THE FAILURE OF THE CONTRACTOR TO ACCQUANT HIMSELF WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY.
- 1.6.2 NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO THE CONTRACTORS FAILURE TO BECOME THOROUGHLY FAMILIAR WITH ALL OF THE CONTRACT DOCUMENTS FOR THIS PROJECT, AS DESCRIBED ABOVE, AND WITH THE JOB SITE.
- 1.6.3 IT SHALL BE THE CONTRACTOR'S DUTY TO NOTIFY THE ARCHITECT AND/OR ENGINEER, IN A TIMELY MANNER, OF ANY DISCREPANCIES, ERRORS, OMISSIONS, AMBIGUITIES, OR CONFLICTS WHICH WERE KNOWN OR DISCOVERED DURING THE COURSE OF THE PREPARATION OF THE BID OR THE CONDUCT OF WORK.
- 1.6.4 UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTORS AND/OR MANUFACTURERS FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES AND/OR OMISSIONS WHICH WERE KNOWN TO OR WHICH SHOULD HAVE BEEN KNOWN OR DISCOVERED DURING THE PREPARATION OF THE BID ESTIMATE AND DIRECTED TO THE ARCHITECT AND/OR ENGINEERS ATTENTION IN A TIMELY MANNER.
- 1.6.5 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT ONE ANOTHER. ANY MATERIALS OR LABOR CALLED FOR IN ONE BUT NOT THE OTHER SHALL BE FURNISHED AS IF BOTH WERE MENTIONED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEMS, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- 1.6.6 THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO DEPICT THE APPROXIMATE LOCATIONS OF EQUIPMENT, PIPING AND APPARATUS. DIMENSIONS GIVEN ON THE DRAWINGS, IN FIGURES, SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS, WHETHER IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.
- 1.6.7 THE PLANS SHOW THE ARRANGEMENT OF ALL FIXTURES, EQUIPMENT AND MATERIAL AND ARE NOT INTENDED TO SHOW ALL DETAILS. EACH AND EVERY ACCESSORY INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK IS UNDERSTOOD TO BE PART OF THE WORK.
- 1.6.8 THE LOCATION OF EQUIPMENT AND PIPE, AS SHOWN ON THE DRAWINGS, IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN FABRICATION AND INSTALLATION DRAWINGS AND LAYOUTS TO ELIMINATE ALL STRUCTURAL AND OTHER PHYSICAL INTERFERENCES WITHOUT DETRIMENT TO THE STRUCTURAL, MECHANICAL AND ARCHITECTURAL COMPONENTS OF THE BUILDING. THE CONTRACTOR MUST ORGANIZE THE PHYSICAL ARRANGEMENT OF THE SYSTEMS OF MATERIAL IN THE CONFINES OF THE SPACE IN ORDER FOR THEM TO FUNCTION AND PERFORM IN ACCORDANCE WITH THE INTENT OF THE DESIGN. THE CONTRACTOR IS NOT RESPONSIBLE FOR THE DESIGN PERFORMANCE; HE IS RESPONSIBLE FOR THE DEVELOPMENT OF INSTALLATION AND FABRICATION DRAWINGS FOR THE INSTALLATION OF HIS EQUIPMENT AND MATERIAL WITHIN THE AVAILABLE SPACES.
- 1.6.9 THE CONTRACTOR SHALL CAREFULLY VERIFY ALL MEASUREMENTS AT THE SITE, DETERMINE THE EXACT LOCATION OF ALL CHASES, OPENINGS, PLENUMS AND CEILING CAVITIES REQUIRED BY HIS WORK AND SHALL FURNISH AND SET ALL SLEEVES, INSERTS AND HANGERS AS REQUIRED FOR THE WORK HEREIN. THE CONTRACTOR SHALL VERIFY ACTUAL JOB DIMENSIONS BEFORE FABRICATION OF ANY MATERIALS, PURCHASING OR INSTALLATION OF EQUIPMENT.
- 1.7 SPACE CONDITIONS: IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL APPARATUS, GEAR, FIXTURES, CONDUIT, ETC. SHALL FIT INTO THAT AVAILABLE SPACES IN THE BUILDING AND MUST BE INTRODUCED INTO THE BUILDING AT SUCH TIMES AND IN SUCH MANNER AS NOT TO CAUSE DAMAGE TO THE STRUCTURE.
- 1.7.1 WHERE MINOR DEVIATIONS FROM PLANS ARE REQUIRED IN ORDER TO CONFORM TO SPACE LIMITATIONS, SUCH CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR ENGINEER.
- 1.7.2 ALL EQUIPMENT NORMALLY REQUIRING SERVICE SHALL BE EASILY ACCESSIBLE.
- 1.8 COORDINATION AND CONFLICTS: THE CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SEE THAT HIS WORK IS INSTALLED IN A TIMELY MANNER.
- 1.8.1 IN THE EVENT THAT THERE IS A DISCREPANCY OR CONFLICT IN THE PLANS OR SPECIFICATIONS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ARCHITECT AND/OR ENGINEER OF THIS CONFLICT OR DISCREPANCY PRIOR TO HIS ACCEPTANCE OF THE PROJECT. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTORS AND/OR MANUFACTURERS FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES AND/OR OMISSIONS WHICH WERE KNOWN TO OR WHICH SHOULD HAVE BEEN KNOWN OR DISCOVERED DURING THE PRESENTATION OF THE BID ESTIMATE AND DIRECTED TO THE ARCHITECTS AND/OR ENGINEERS ATTENTION IN A TIMELY MANNER.
- 1.8.2 GUARANTEE: ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURERS GUARANTEE OR WARRANTY AND THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURERS GUARANTEE WARRANTIES.
- 1.9.1 GUARANTEE: ALL WORK, MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY THE OWNERS ENGINEER. THE GUARANTEE SHALL INCLUDE FULL SERVICE ADJUSTMENTS, REPAIRS AND REPLACEMENT PARTS AT NO EXPENSE TO OWNER, AND TO THE COMPLETE SATISFACTION OF THE OWNERS ENGINEER.
- 1.9.2 THE CONTRACTOR SHALL FURNISH A LETTER ADDRESSED TO THE OWNER OUTLINING THE YEARS GUARANTEES AND ADVISING THAT THE COMPLETED SYSTEMS HAVE BEEN INSTALLED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND THAT THEY ARE IN PROPER OPERATING CONDITION.
- 1.10 INSPECTION AUTHORITY CERTIFICATE OF APPROVAL SHALL BE FURNISHED THE OWNERS ENGINEER BEFORE FINAL ACCEPTANCE WILL BE GIVEN.
- 1.10.1 PROVIDE ANY INSPECTIONS AND CERTIFICATES REQUIRED BY LOCAL JURISDICTIONAL AUTHORITIES TO OBTAIN ACCEPTANCE OF THE SPECIFIED EQUIPMENT AND THE INSTALLATION.
- 1.11 SUBMITTALS: CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS; THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, THAT HE DEMONSTRATES HIS UNDERSTANDING BY INDICATING WHICH EQUIPMENT AND MATERIALS HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
- 1.11.1 THE CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES OR CONFLICTS BETWEEN SHOP DRAWINGS AND SPECIFICATION ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
- 1.11.2 WHERE SHOP DRAWINGS ARE REVIEWED, SAID REVIEW DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY NOR THE NECESSITY OF FURNISHING MATERIAL OR PERFORMING WORK REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 1.11.3 SUBMITTAL REVIEW IS CONSIDERED AS GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY SUBSTITUTED EQUIPMENT WITHIN A GIVEN SPACE. WHEN THE CONTRACTOR DESIRES TO USE SUBSTITUTED EQUIPMENT, HE SHALL BE RESPONSIBLE FOR PRODUCING HIS OWN COORDINATED WORKING DRAWINGS WHICH DEPICT THE SUBSTITUTED EQUIPMENT ACCOMMODATED IN THE SPACE. WHERE THE SUBSTITUTED EQUIPMENT CREATES THE NEED FOR ALTERATIONS IN ANY PORTION OF THE WORK DEPICTED IN THE CONTRACT DOCUMENTS, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY ALL OF THE AFFECTED PARTIES AND COORDINATE THESE ITEMS WITH ALL OTHER TRADES. FURTHER, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASSUME ANY ADDITIONAL COST TO THE CONTRACT CREATED BY THE SUBSTITUTED EQUIPMENT.
- 1.11.3.1. SUBSTITUTED EQUIPMENT IS ANY EQUIPMENT WHICH DEVIATES FROM THE EQUIPMENT SPECIFIED HEREIN, AS THE FIRST NAMED MANUFACTURER OR THE EQUIPMENT SCHEDULED ON THE PLANS.
- 1.12 FIRE ALARMS, PULL STATIONS AND ALL OTHER SAFETY ITEMS WILL BE UPDATED TO CURRENT STANDARDS FOR ALL OUTDATED EXISTING BUILDINGS.
- 2.0 SERVICE ENTRANCE
- 2.1 CHARACTERISTICS - SERVICE SHALL BE AS INDICATED ON DRAWINGS. SEE ONE-LINE DIAGRAM ON DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.2 PROVIDE AUXILIARY SERVICES FOR EXIT LIGHTS AND EMERGENCY LIGHTING.
- 2.3 GROUNDING - SYSTEM GROUNDING CONDUCTOR SHALL BE SIZED AS REQUIRED BY APPLICABLE CODE AND RUN IN CONDUIT WHERE EXPOSED IN BUILDING TO THE POINT OF WATER SERVICE TO BUILDING AND CONNECTED TO WATER SERVICE PIPING.
- 2.4 CONDUCTORS SHALL BE COPPER WITH TYPE THWN INSULATION.
- 2.5 BUS DUCT, WHEN USED FOR SERVICE ENTRANCE CONDUCTORS, SHALL BE PLATED ALUMINUM, COMPLETE WITH SUITABLE VAPOR BARRIER AND WEATHERHEAD.
- 4.0 PANELBOARDS
- 4.1 PANELS DEAD FRONT TYPE WITH CABINETS SURFACE MOUNTED (UNLESS OTHERWISE SPECIFIED) OF CODE THICKNESS WITH HINGED DOOR AND TRIM. DOOR HINGED WITH CONCEALED HINGES AND PROVIDED WITH TRIM CLAMPS AND TRIM ANGLE SUPPORTS AND WITH FLUSH TYPE COMBINATION LATCHES AND LOCKS WITH LOCKS KEYED ALIKE. DOOR SHALL INCLUDE A DIRECTORY FRAME ON FACE OF FRONT PANEL, INTERIOR AND DIRECTORY CARD FACED WITH TRANSPARENT PLASTIC. ALL CIRCUITS CLEARLY AND PERMANENTLY IDENTIFIED ON DIRECTORY. BOXES FABRICATED OF GALVANIZED STEEL. NO CRINKLE FINISHES PERMITTED ON TRIM. PANEL BACK ADJUSTABLE. PANELS FACTORY ASSEMBLED. EACH PANEL SHALL CONTAIN A MINIMUM OF 10% SPARE CIRCUIT BREAKERS, IF NOT OTHERWISE INDICATED SPARE CIRCUIT BREAKERS SHALL BE 20 AMP, SINGLE POLE.
- 4.2 MULTIPLE POLE BREAKERS MUST BE OF COMMON TRIP TYPE. NO TIE HANDLES PERMITTED WITH SINGLE POLE BREAKERS
- 5.0 LIGHTING CONTROLLER
- 5.1 OCCUPANCY SENSORS AS SHOWN ON PLANS.
- 5.2 CONTRACTORS SHALL BE ELECTRICALLY HELD OF PROPER CAPACITY. CONTRACTORS SHALL BE WIRED WITH A RELAY FURNISHED BY THE ELECTRICAL CONTRACTOR TO PROPERLY ENGAGE AND RELEASE THE CONTRACTOR BASED ON ONE CHANNEL SWITCHING.
- 5.3 ALL OUTSIDE AND WORK AREA LIGHTING AND CIRCUITS SHALL INCLUDE TIME CLOCK AND PHOTOCELL CONTROL. 'OTC' AS SHOWN, WITH MANUAL SPRING WOUND OVERRIDE SWITCH.
- 6.0 METHOD OF WIRING
- 6.1 CONDUIT RACEWAYS OR M.C. CABLE SHALL BE USED FOR INSTALLATION OF ALL WIRING WHERE INDICATED ON DRAWINGS.
- 6.1.1 EXPOSED CONDUIT SUBJECT TO MECHANICAL INJURY SHALL BE EITHER FULL WEIGHT RIGID STEEL (HEAVY WALL) TYPE OR INTERMEDIATE METAL CONDUIT (I.M.C.) - ANY CONDUITS RUN IN THE MECHANICAL ROOM OR ELECTRICAL ROOM NOT CONCEALED IN PARTITIONS, ABOVE FINISHED CEILINGS OR UNDER THE FLOOR SLAB ARE CONSIDERED EXPOSED TO MECHANICAL INJURY. EITHER TYPE SHALL HAVE GALVANIZED OR EQUAL FINISH. CONDUIT RUN EXPOSED AND NOT SUBJECT TO MECHANICAL INJURY, CONCEALED ABOVE CEILING OR IN FURRED SPACES MAY BE ELECTRICAL METALLIC TUBING (E.M.T.) OR M.C. CABLE WITH GALVANIZED OR EQUAL FINISH ALUMINUM CONDUIT SHALL NOT BE USED IN CONCRETE OR MASONRY, BUT IS PERMITTED FOR USE WHERE EXPOSED AND NOT SUBJECT TO MECHANICAL INJURY OR WHERE CONCEALED ABOVE CEILING OR IN FURRED SPACES. CONDUIT JOINTS SHALL BE MADE WITH STANDARD CONDUIT COUPLINGS, (NO RUNNING THREADS) CADMIUM PLATED. SCHEDULE 40 PVC CONDUIT IS ALSO PERMITTED FOR USE IN MASONRY OR CONCRETE. ANY FEEDER CONDUITS WHICH ARE PVC MUST BE BURIED BENEATH THE FLOOR SLAB - NOT IN THE CONCRETE. ANY EXPOSED CONDUIT PROJECTIONS OUT OF CONCRETE SLAB MUST BE CHANGED TO RIGID STEEL OR I.M.C. AT THE SURFACE OF THE SLAB. RIGID STEEL OR I.M.C. CONDUIT IS REQUIRED IN CONCRETE OR MASONRY CONSTRUCTION.
- 6.1.2 CONDUIT SHALL NOT BE SMALLER THAN 3/4" NOMINAL TRADE SIZE, EXCEPT FOR SWITCH LEGS OR WHERE EXPRESSLY NOTED.
- 6.1.3 INSTALL ALL CONDUITS AS NEAR BOTTOM CHORD OF JOISTS AS PRACTICAL. ALL CONDUITS MUST BE SECURELY FASTENED AND ADEQUATELY SUPPORTED. PERFORATED STRAPS WILL NOT BE PERMITTED. ALL SUSPENDED CONDUITS MUST BE SUPPORTED ON A TRAPEZE USING "UNISTRUT" AND BOLTED HANGER CONSTRUCTION. CONDUITS SUPPORTED USING SUSPENDED CEILING SYSTEM (EITHER TEE BARS OR HANGER WIRES) WILL NOT BE PERMITTED.
- 6.1.4 ALL CONDUIT SIZING FOR BRANCH CIRCUITS SHALL BE BASED ON THE USE OF TYPE THW CODE GRADE INSULATION. THIS METHOD OF SIZING SHALL BE USED REGARDLESS OF INSULATION TYPE USED IN THE CONDUIT.
- 6.1.5 ALL CONDUITS SHALL BE CONCEALED.
- 6.1.6 PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR WHERE REQUIRED TO FACILITATE WIRE INSTALLATION.
- 6.1.7 CUTTING OF STRUCTURAL CONCRETE OR STEEL TO FACILITATE WIRING INSTALLATION WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNERS ENGINEER.
- 6.1.8 ALL EXPOSED CONDUIT SHALL BE RUN RECTILINEAR WITH BUILDING CONSTRUCTION USING CONCENTRIC BENDS.
- 6.1.9 CONTROL CIRCUIT CONDUITS (W/PULL WIRES) UNDER FLOOR AND IN CEILING SHALL BE AS SHOWN ON DRAWINGS OR AS REQUIRED.
- FIRE ALARM AND DETECTION SYSTEM
- 1. TYPE OF FIRE ALARM AND DETECTION SYSTEM IN THIS SECTION SHALL BE NEW.
- 2. MANUAL PULL STATIONS, SMOKE DETECTORS, DUCT DETECTORS, HORNS AND HORNSTROBES SHALL BE FULLY SUPERVISED FOR PLACEMENTS, OPENS AND GROUNDS.
- 3. SUBMIT MANUFACTURER'S DATA ON FIRE ALARM AND DETECTION SYSTEM FOR ALL DEVICES SHOWN ON THE DRAWINGS.
- 4. MANUFACTURERS SHALL BE SIEMENS, EDWARDS, NOTIFIER, FIRELITE OR GAMEWELL.
- 5. WIRING SHALL COMPLY WITH ALL OTHER SECTIONS OF THIS SPECIFICATION AND COMPLY WITH ALL FEDERAL, LOCAL AND STATE CODES.
- 6. FIRE ALARM STATIONS SHALL BE SINGLE ACTION NON CODED MANUAL STATION WITH DIE-CAST ALUMINUM HOUSING (RED) FITTED WITH A PULL LEVER WHICH WHEN OPERATED, LOCKS IN POSITION AFTER ACTIVATING AN ALARM INITIATING CONTACT. THE LEVER WILL PROTRUDE UNTIL RESET. RESETTING WILL REQUIRE OPENING THE FRONT COVER WITH AN ALLEN KEY FOR ACCESS TO THE ALARM SWITCH.
- 7. THE SCATTERED LIGHT SMOKE DETECTOR SHALL OPERATE ON THE IONIZATION PRINCIPLE AND SHALL COMPLY WITH UL 268 SPECIFICATIONS.
- 8. THE DUCT DETECTOR SHALL CONTINUALLY SAMPLE A CROSS SECTION OF AIR FLOW IN A DUCT AND SEND AN ALARM WHENEVER THE QUALITY OF SMOKE EXCEEDS GIVEN LIMITS.
- 9. THE HORN AND HORNSTROBE DEVICE SHALL BE SPECIFICALLY DESIGNED FOR LIFE-SAFETY USE. THE HORN IS POLARIZED FOR SUPERVISION. THE VISUAL ALARM SHALL BE THREE DIMENSIONAL, TRIANGULAR WARNING LIGHT AND SHALL BE HORN/TUBE STROBE DEVICE. THE STROBE SHALL HAVE A WHITE LENS WITH RED LETTERING. CANDELAS SHALL BE PER LIFE SAFETY CODE AND BASED ON AREA USE.
- 10. FIRE ALARM SHALL BE INSTALLED IN CONDUIT UNLESS PLENUM RATED CABLE IS USED.
- 11. INSPECT RELAYS AND SIGNALS FOR MALFUNCTIONING AND WHERE NECESSARY, ADJUST UNITS FOR PROPER OPERATION TO FULFILL PROJECT REQUIREMENTS.



#	Date	Desc.

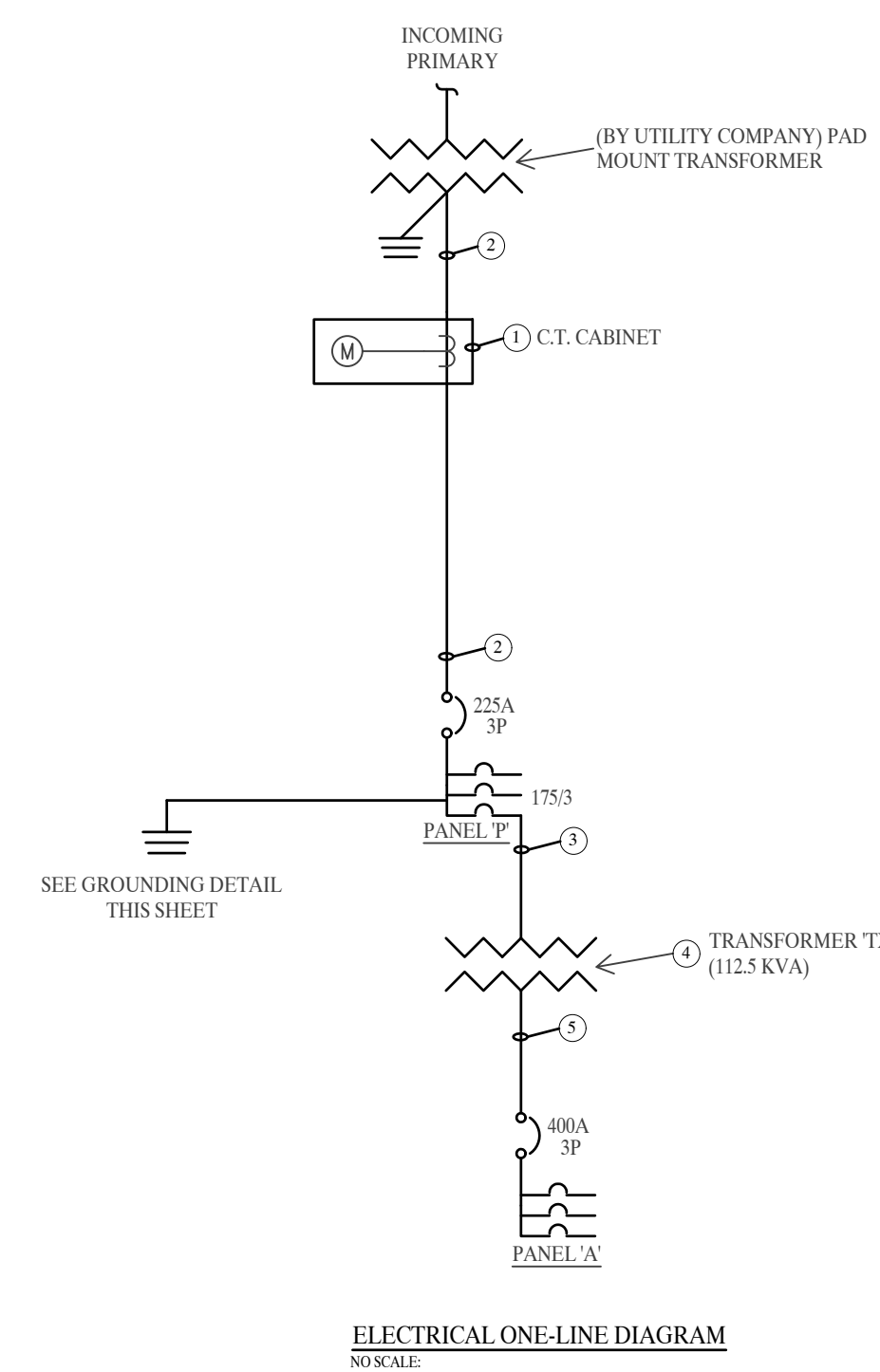
100% CONSTRUCTION DOCUMENTS
 PROJECT: 24020
 DATE: 04-22-2024
 DRAWN BY: DAE

SHEET NAME
ELECTRICAL SPECIFICATIONS



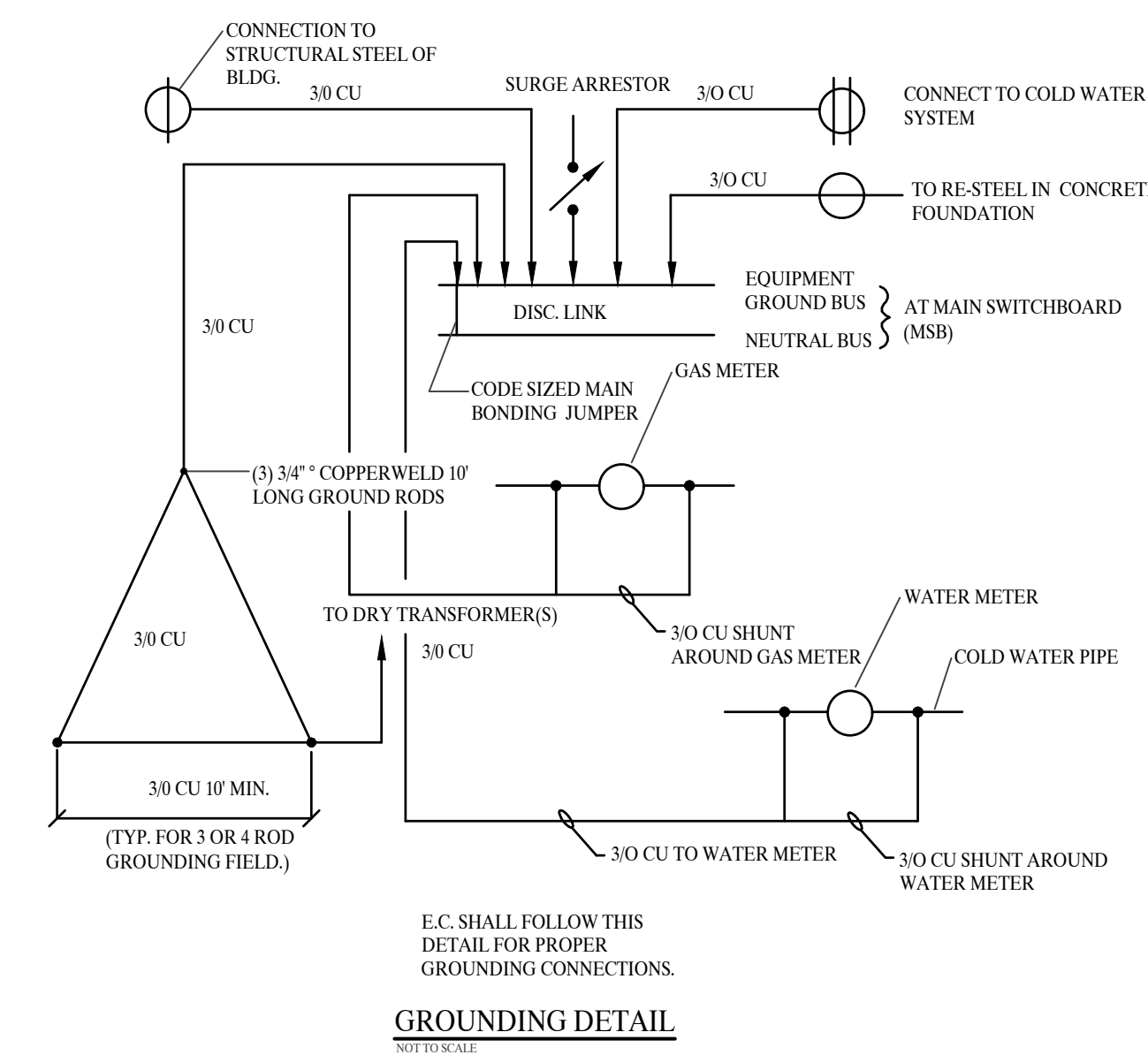
PANEL 'A'		VOLTS: 120/208 AMPS: 400 CKTS: 84 LUGS: MCB			MTG: SURFACE PHASE: 3 WIRE: 4 FEED: BOTTOM				
LOCATION: RISER ROOM									
REMARKS	<LOAD>			CIR. NO.	POLE	<LOAD>		REMARKS	
	0A	0B	0C			0A	0B	0C	
RECEPTACLE	1.4			20	1	2	20	1.4	RECEPTACLE
RECEPTACLE	1.4	1.4		20	3	4	20	1.4	RECEPTACLE
RECEPTACLE		1.4		20	3	5	20		RECEPTACLE
RECEPTACLE	1.4			20	7	8	20	1.4	RECEPTACLE
RECEPTACLE	1.4	1.4		20	9	10	20	1.4	RECEPTACLE
RECEPTACLE		1.0		20	11	12	20		RECEPTACLE
BF-1	0.5			20	13	14	20	0.5	REFRIGERATOR
COFFEE MAKER		0.5		20	15	16	20	0.5	COFFEE MAKER
MICROWAVE		0.5	0.5	20	17	18	20	0.8	MEZZANINE RECEPTACLE
EF-1	0.1			20	19	20	20	1.0	FACP
OVERHEAD DOOR		0.5		20	21	22	20	0.5	TIME CLOCK
OVERHEAD DOOR		0.5	0.5	20	23	24	20	0.8	MEZZANINE RECEPTACLE
OVERHEAD DOOR	0.5			20	25	26	20	0.2	KEY CARD
OVERHEAD DOOR		0.5		20	27	28	20		SPARE
OVERHEAD DOOR		0.5	0.5	20	29	30	20		SPARE
OVERHEAD DOOR	0.5			20	31	32	20		SPARE
OVERHEAD DOOR		0.5		20	33	34	20	3.0	SPARE
WH-A1	2.0		2.0	30	35	36	30	3.0	CU-1
WH-1	3.0		3.0	35	39	40	35	3.0	CU-2
FA-1	0.9			20	45	46	20	0.9	FA-2
CF-A1		0.1		20	47	48	20	0.1	CF-A2
GFUH-1	1.6			20	49	50	100	6.0	TOX BOX
GFUH-2	1.6			20	51	52	2	6.0	TOX BOX
GFUH-3		1.6		20	53	54	20	1.5	PTAC-A1
SPARE				20	55	56	2	1.5	PTAC-A1
PTAC-A2		1.5		20	57	58	20	1.5	PTAC-A3
TRUCK RESTRAINT	1.0			20	61	62	20	1.0	DOCK LEVELER
TRUCK RESTRAINT		1.0		20	63	64	20	1.0	DOCK LEVELER
TRUCK RESTRAINT		1.0	1.0	20	65	66	20	1.0	DOCK LEVELER
TRUCK RESTRAINT	1.0			20	67	68	20	1.0	DOCK LEVELER
TRUCK RESTRAINT		1.0		20	69	70	20	1.0	DOCK LEVELER
TRUCK RESTRAINT		1.0	1.0	20	71	72	20	1.0	DOCK LEVELER
TRUCK RESTRAINT	1.0			20	73	74	20	1.0	DOCK LEVELER
SIGNAGE		0.2		20	75	76	20	0.5	BOILER
LT. STATION		0.4		20	77	78	20	0.4	SECURITY STATION
WATER CLOSET AND FAUCET	0.5			20	79	80	60	4.3	BAILER
WH-A2		2.0		30	81	82	30	4.3	BAILER
	14.5	16.0	16.5			25.3	25.0	20.2	117.5 KVA (326 AMPS)

PANEL 'P'		VOLTS: 277/480 AMPS: 225 CKTS: 42 LUGS: MCB			MTG: SURFACE PHASE: 3 WIRE: 4 FEED: BOTTOM/TOP				
LOCATION: RISER ROOM									
REMARKS	<LOAD>			CIR. NO.	POLE	<LOAD>		REMARKS	
	0A	0B	0C			0A	0B	0C	
HIGHBAY LIGHTING	2.5			20	1	2	20	1.7	LIGHTING
LIGHTING		0.5		20	3	4	20	0.5	EXTERIOR LIGHTING
EXTERIOR LIGHTING		0.5		20	5	6	20		SPARE
SPARE				20	7	8	20		SPARE
SPARE				20	9	10	20		SPARE
SPARE				20	11	12	20		SPARE
SPARE				20	13	14	20		SPARE
SPARE				20	15	16	20		SPARE
SPARE				20	17	18	20		SPARE
BAILER	5.0			30	19	20	20		SPARE
BAILER		5.0		30	21	22	20		SPARE
BAILER		5.0		30	23	24	20		SPARE
BAILER	5.0			30	25	26	175	37.3	TRANS. TXA'
BAILER		5.0		30	27	28	3	38.5	TRANS. TXA'
BAILER		5.0		30	29	30	3	32.3	TRANS. TXA'
COMPACTOR	5.0			30	31	32			SPACE
SPACE		5.0		30	33	34			SPACE
SPACE		5.0		30	35	36			SPACE
SPACE		5.0		30	37	38			SPACE
SPACE		5.0		30	39	40			SPACE
SPACE		5.0		30	41	42			SPACE
	17.5	15.5	15.5			39.0	39.0	32.3	158.8 KVA (191 AMPS)



PLAN NOTES

1. C.T. CABINET WILL BE PROVIDED BY UTILITY COMPANY AND INSTALLED BY E.C.
2. 4-#40, 1-#2 GND IN A 1/2" C.
3. 3-#20, 1-#4 GND IN A 2" C.
4. TRANSFORMER TXA' SHALL BE 112.5KVA, 480V-3Ø-3W PRIMARY, 120/208V 3Ø-4W SECONDARY.
5. 4-#500MCM, 1-#10 GND IN A 3 1/2" C.



LIGHT FIXTURE SCHEDULE						
TYPE	MOUNTING	LAMPS	WATTS	NOMINAL DIMENSION	MFR & CAT NO. OR ACCEPTABLE EQUIVALENT	REMARKS
A	LAY-IN	LED	35	2x4'	LITHONIA #CFX-2X4-AL07-80CRI-SWW7-SWL-MVOLT	2x4' LED LAY-IN FLAT PANEL
B	RECESSED	LED	10	4'	LITHONIA #CSS-L48-AL03-MVOLT-40K-80CRI	4' STRIP LIGHT
C	RECESSED	LED	133	-	LITHONIA #CPHB-1800LM-SEF-GCL-MD-MVOLT-40K-70CRI-LSXR6-IBAC120 AIRCRAFT CABLE	COMPACT PRO HIGH BAY, 18000 LUMENS, STANDARD EFFICIENCY, GLARE CONTROL LENS
EM	WALL	LED	-	-	LITHONIA #ELM6 SERIES	LED EMERGENCY WALL PACK
EM1	WALL	LED	-	-	LITHONIA #ERE-W-SGL-RD-WP	LED EMERGENCY REMOTE HEAD WEATHER PROOF
FP	GROUND	LED	-	-	KAYTUNE SOLAR FLAG POLE LIGHT OUTDOOR DUSK TO DAWN 32 SUPER BRIGHT LED 4640LM AUTO ON/OFF	GROUND MOUNTED SOLAR POWER LIGHT FOR FLAG POLE
P2	POLE	LED	111	-	LSI #MRS-LED-15L-SIL-2-UNV-DIM-40-70CRI-BRZ	LSI POLE LIGHT
P4	POLE	LED	111	-	LSI #MRS-LED-15L-SIL-4-UNV-DIM-40-70CRI-BRZ	LSI POLE LIGHT
P4S	POLE	LED	111	-	LSI #MRS-LED-15L-SIL-4-UNV-DIM-40-70CRI-BRZ-IL	LSI POLE LIGHT
WP	WALL	LED	24	-	LITHONIA #WPX1 LED P2-40K-MVOLT-PE	EXTERIOR LED WALLPACK
X	UNIV	LED	-	-	LITHONIA #LHM-LED-R-M6	LED EMERGENCY EXIT WITH BATTERY BACKUP
X1	UNIV	LED	-	-	LITHONIA #LHM-LED-R-M6	LED EMERGENCY EXIT COMBO UNIT

A	B
C	D



REVISIONS:	Date	By

100% CONSTRUCTION DOCUMENTS
PROJECT: 24020
DATE: 04-22-2024
DRAWN BY: DAE

SHEET NAME
ELECTRICAL SCHEDULES

REVISIONS	Date	Disc.

100% CONSTRUCTION DOCUMENTS
 PROJECT: 24020
 DATE: 04-22-2024
 DRAWN BY: DAE

SHEET NAME
 LIGHTING AND POWER PLAN

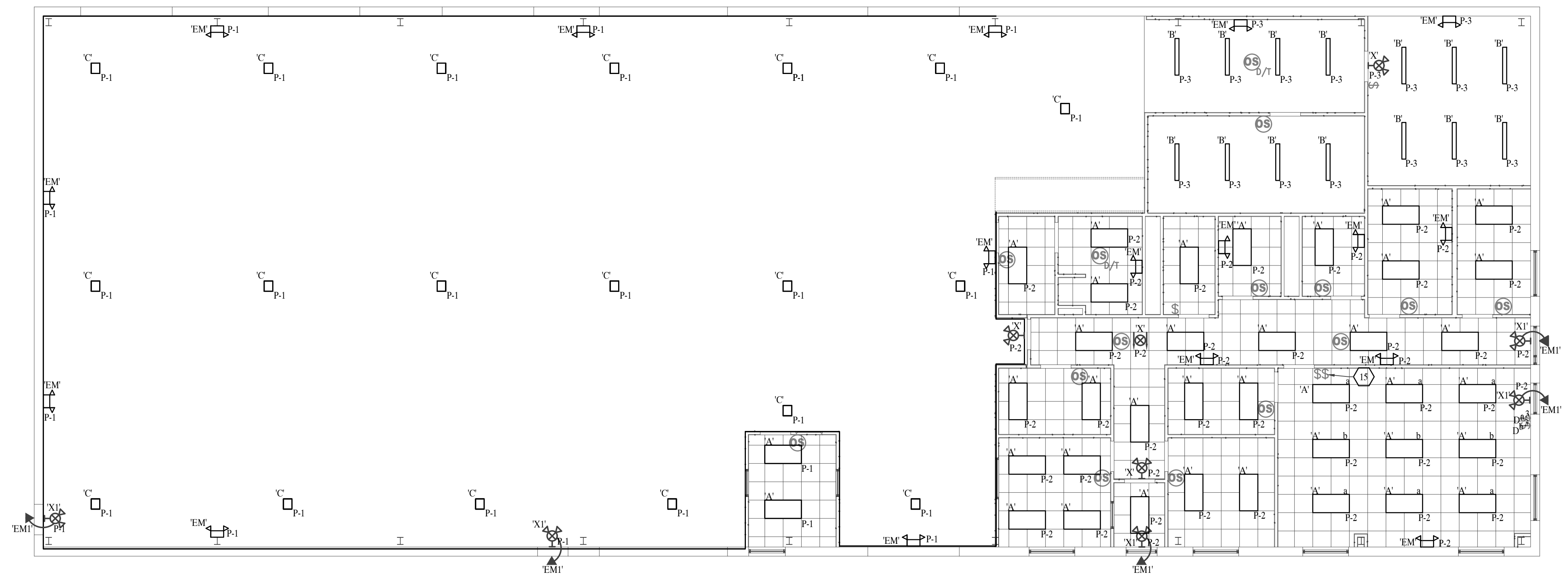
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GENERAL NOTES:

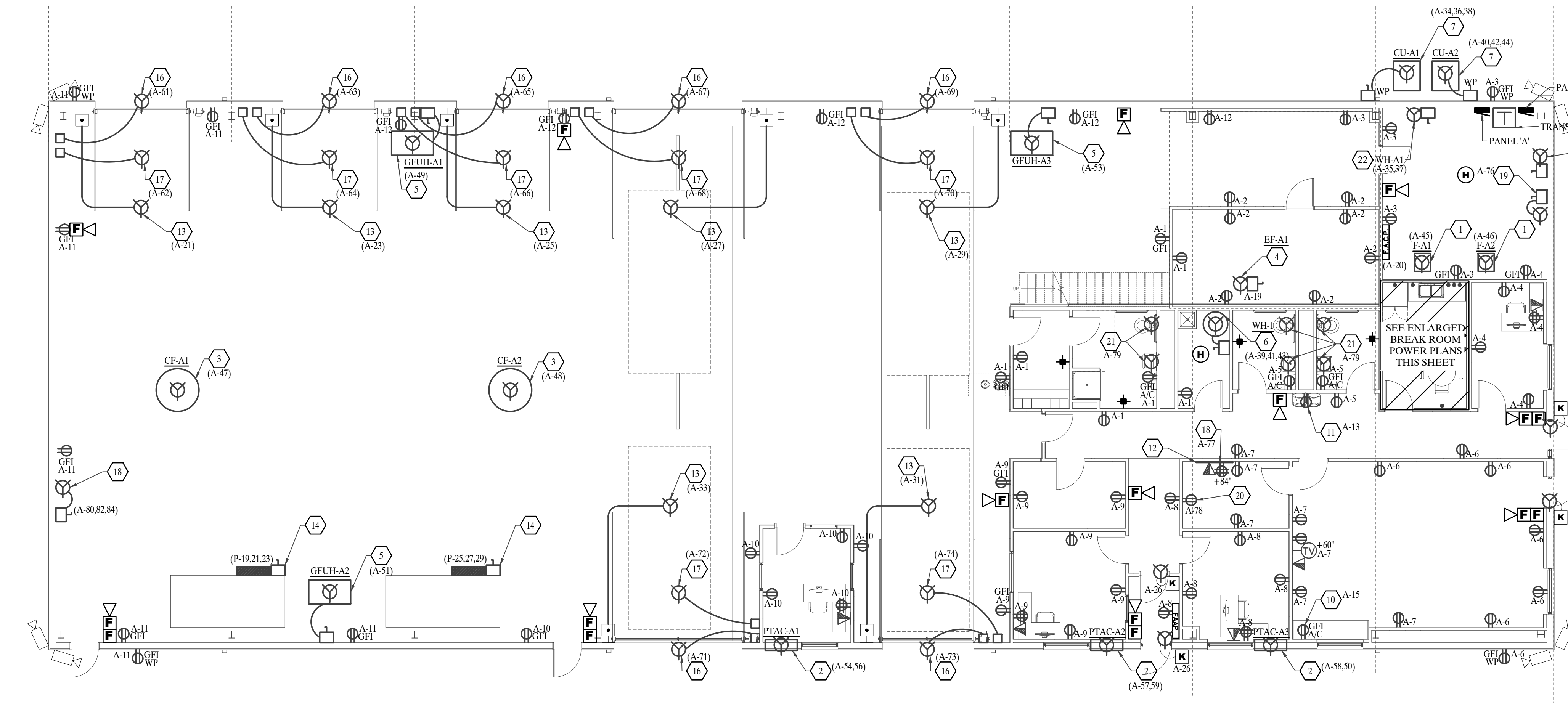
- ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS.
- THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.
- CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPEARANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.
- ALL CIRCUITS OVER 100' IN LENGTH SHALL BE A MINIMUM #10 AWG CONDUCTOR.
- WIRING SYSTEM SHALL BE CONDUIT AND WIRE. MINIMUM WIRE SIZE SHALL BE #12 AWG. USE SOLID CONDUCTOR FOR #10 AWG AND SMALLER, USE STRANDED IN LARGER SIZES.
- ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRING, PANELS, LIGHTING, ELECTRICAL DEVICES, SWITCHES AND OTHER COMPONENTS IN COMPLETE COMPLIANCE WITH ALL CURRENT FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- INSTALL GROUND WIRE IN ALL FEEDERS AND BRANCH CIRCUITS.
- MINIMUM CONDUIT SIZE SHALL BE 3/4".
- ALL DEDICATED RECEPTACLES SHALL BE 20 AMP RATED.

KEYED PLAN NOTES:

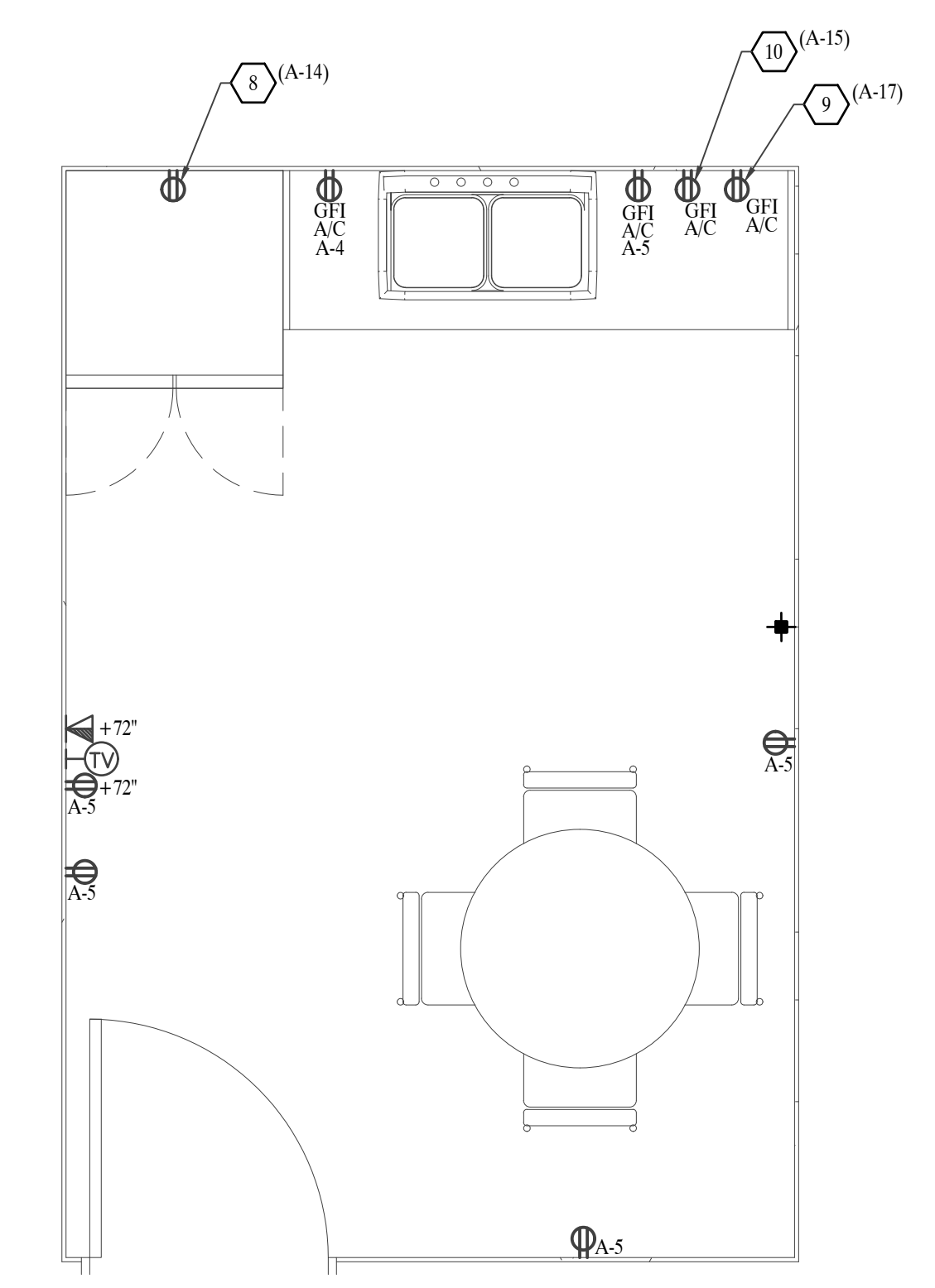
- 20A, 120V-1Ø CONNECTION FOR F-A1 AND F-A2.
- 20A, 208V-1Ø CONNECTION FOR PTAC-A1, PTAC-A2, AND PTAC-A3.
- 20A, 120V-1Ø CONNECTION FOR CF-A1 AND CF-A2.
- 20A, 120V-1Ø CONNECTION FOR EXHAUST FAN. CONNECT TO LIGHTING CIRCUIT IN THIS ROOM AND CONTROL WITH LIGHTS.
- 20A, 120V-1Ø CONNECTION FOR GFU-H-1, GFU-H-2, AND GFU-H-3.
- 35A, 208V-3Ø CONNECTION FOR WH-1.
- 25A, 208V-3Ø CONNECTION FOR CU-A1 AND CU-A2. INSTALL 3-#12, 1-#12 GND IN A 3/4" C.
- DEDICATED RECEPTACLE FOR REFRIGERATOR.
- DEDICATED RECEPTACLE FOR MICROWAVE.
- DEDICATED RECEPTACLE FOR COFFEE MAKER.
- DEDICATED RECEPTACLE FOR BOTTLE FILLER.
- INSTALL 3/4" TREATED PLYWOOD BACKBOARD FOR TELEPHONE/IT SYSTEMS, DATA RACKS. INSTALL 4" CONDUIT WITH PULL STRING AT BOARD AND STUB-OUT 5' BEYOND BUILDING.
- 20A, 120V-1Ø CONNECTION FOR OVERHEAD DOOR. ALSO PROVIDE ROUGH-IN FOR DOOR CONTROLLER.
- 30A, 480V-3Ø CONNECTION FOR BOLLER CONTROL PANEL. INSTALL 3-#10, 1-#10 GND IN A 3/4" C. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER.
- PROVIDE OVERRIDE DIMMER SWITCHES FOR OCCUPANCY SENSOR.
- 20A, 120V-1Ø CONNECTION FOR TRUCK RESTRAINT DEVICE. ALSO PROVIDE ROUGH-IN FOR TRUCK RESTRAINT CONTROLLER.
- 20A, 120V-1Ø CONNECTION FOR DOCK LEVELER. ALSO PROVIDE ROUGH-IN FOR DOCK LEVELER CONTROLLER.
- DEDICATED QUAD RECEPTACLE FOR I.T. STATION.
- 20A, 120V-1Ø CONNECTION FOR BOILER.
- DEDICATED RECEPTACLE FOR SECURITY STATION.
- 20A, 120V-1Ø CONNECTION FOR FAUCET AND WATER CLOSET.
- 30A, 208V-1Ø CONNECTION FOR ELECTRIC WALL HEATER. INSTALL 2-#10, 1-#10 GND IN A 3/4" C.



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

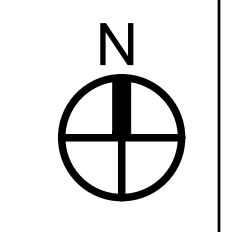


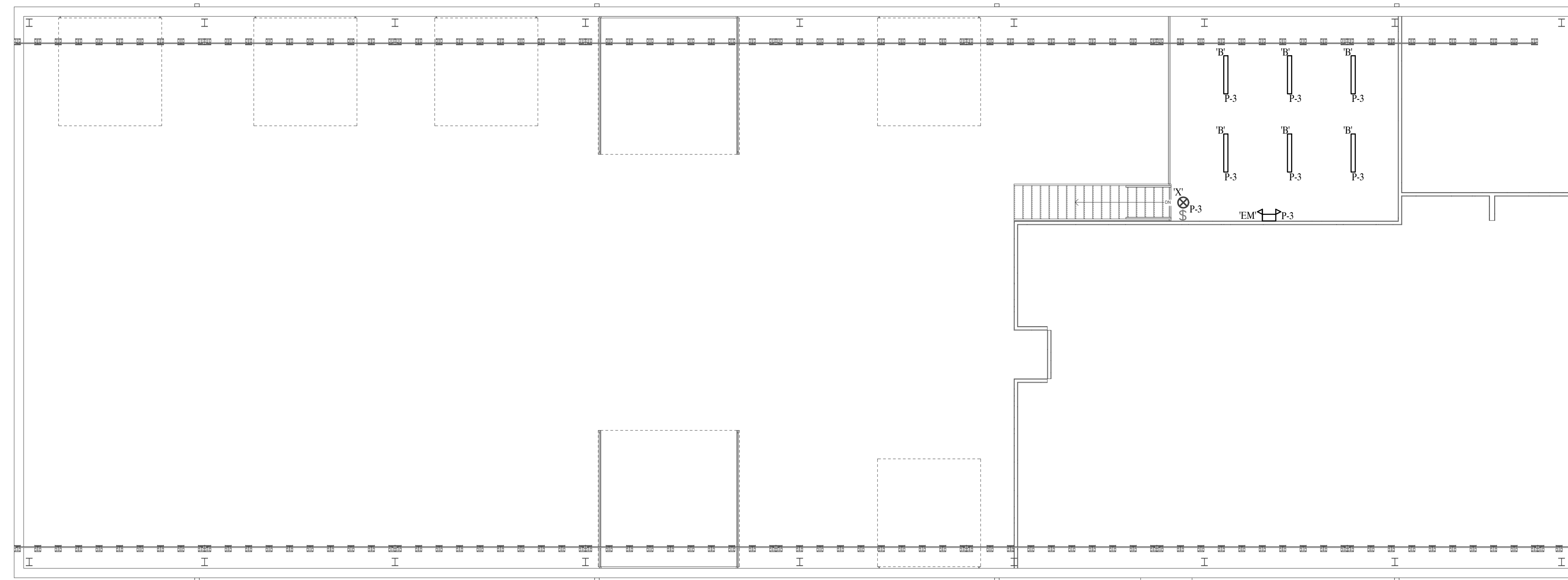
FIRST FLOOR - POWER PLAN
 SCALE 1/8" = 1'-0"



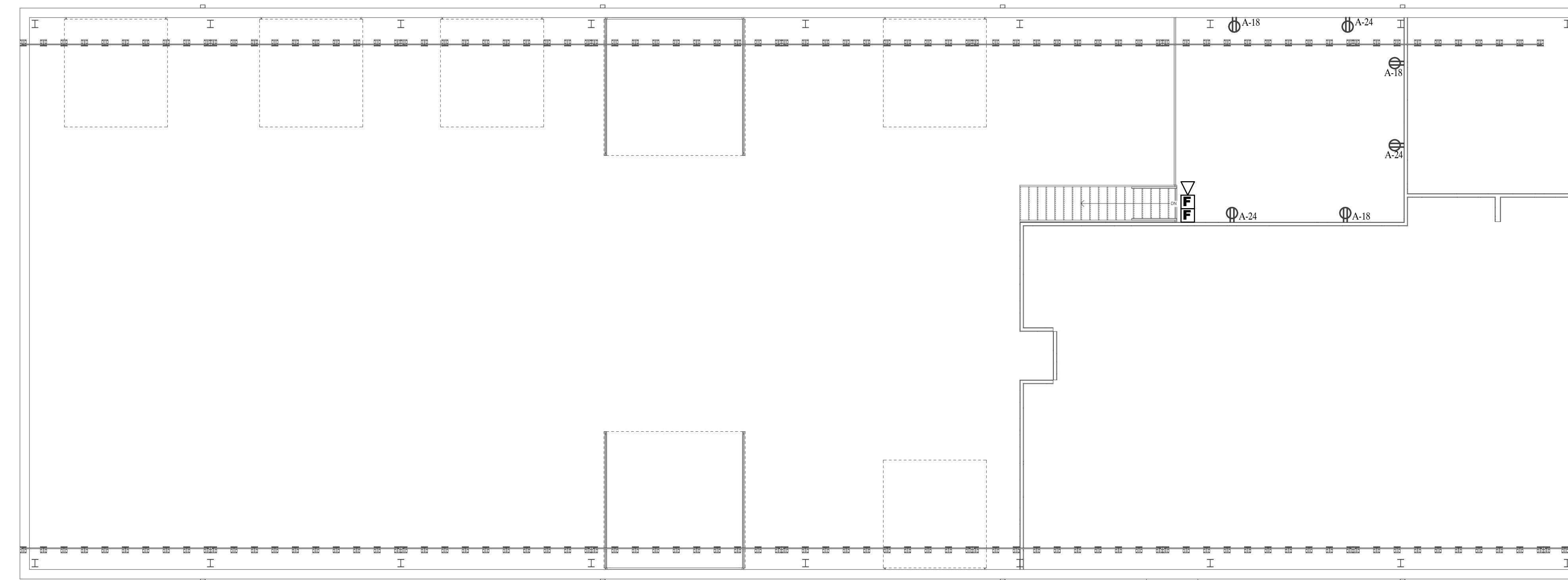
ENLARGED BREAK ROOM - POWER PLAN
 SCALE 1/2" = 1'-0"

A	B
C	D





MEZZANINE LIGHTING PLAN
SCALE 1/8" = 1'-0"



MEZZANINE POWER PLAN
SCALE 1/8" = 1'-0"

A	B
C	D



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PROJECT: 24020
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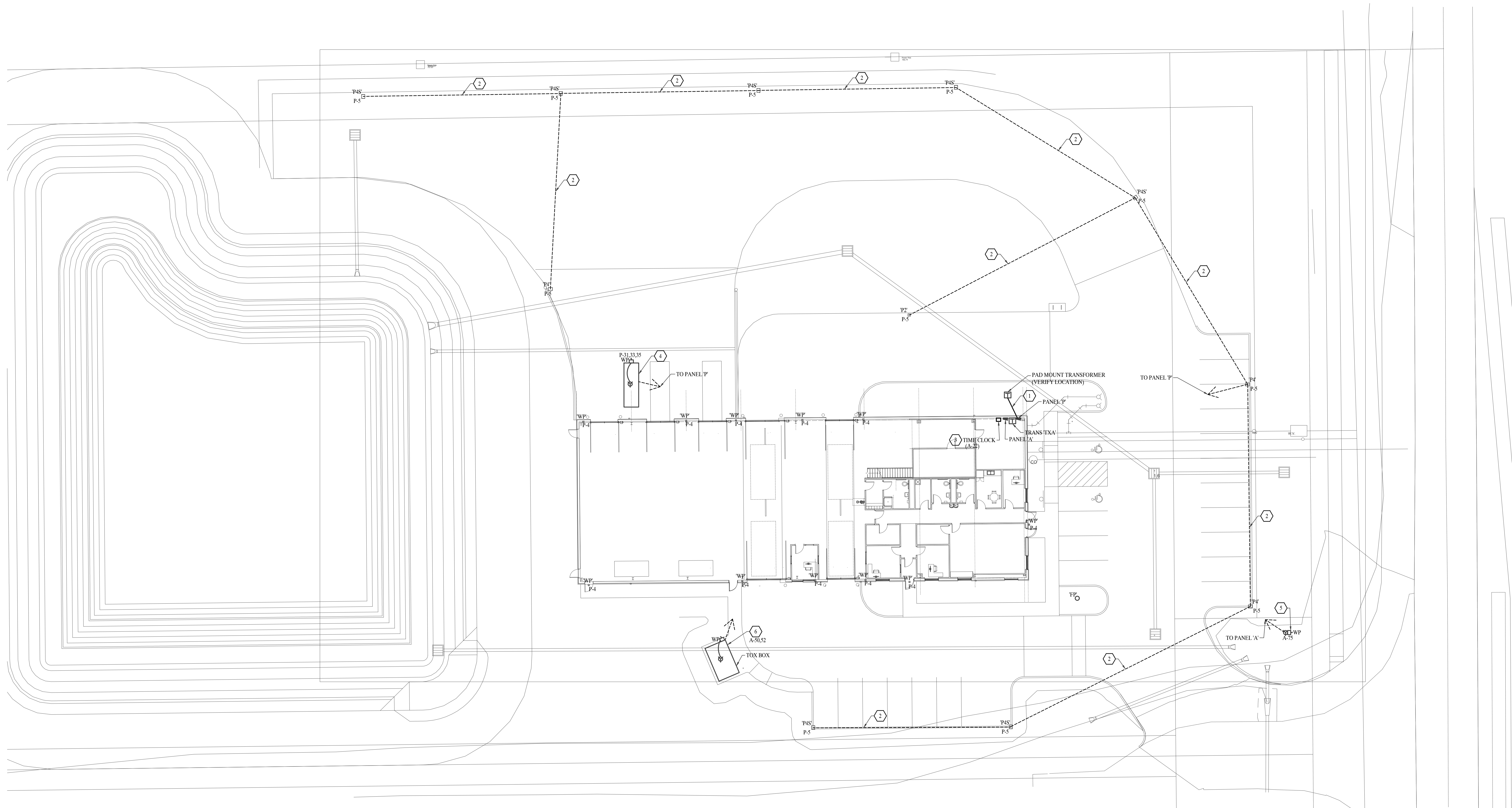
SHEET NAME
MEZZANINE
POWER AND
LIGHTING
PLAN

GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS.
- B. THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.
- C. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.
- D. ALL CIRCUITS OVER 10' IN LENGTH SHALL BE A MINIMUM #10 AWG CONDUCTOR.
- E. WIRING SYSTEM SHALL BE CONDUIT AND WIRE. MINIMUM WIRE SIZE SHALL BE #12 AWG. USE SOLID CONDUCTOR FOR #10 AWG AND SMALLER, USE STRANDED IN LARGER SIZES.
- F. ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE OWNER.
- G. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRING, PANELS, LIGHTING, ELECTRICAL DEVICES, SWITCHES AND OTHER COMPONENTS IN COMPLETE COMPLIANCE WITH ALL CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
- H. INSTALL GROUND WIRE IN ALL FEEDERS AND BRANCH CIRCUITS.
- I. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- J. ALL DEDICATED RECEPTACLES SHALL BE 20 AMP RATED.

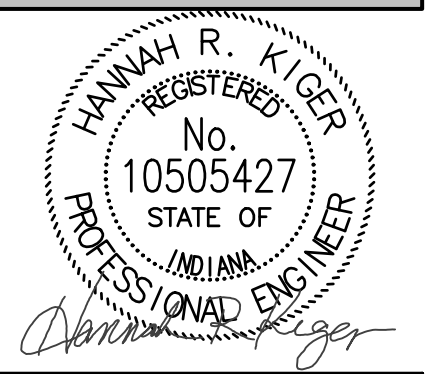
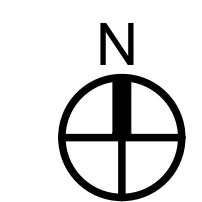
KEYED PLAN NOTES:

- 1. SEE ONE-LINE DIAGRAM.
- 2. 2-#10, 1-#10 GND IN A 1" C.
- 3. PROVIDE 2-CHANNEL DIGITAL TIME CLOCK SIMILAR TO 'TORK' #DG200A. CIRCUITS AS FOLLOWS:
P-4: DUSK-TO-DAWN
P-5: DUSK-TO-TIME
- 4. 30A, 480V-3Ø CONNECTION FOR COMPACTOR CONTROL PANEL. INSTALL 3- #10, 1- #10 GND IN A 1" C. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER.
- 5. 20A, 120V-1Ø CONNECTION FOR SIGNAGE. INSTALL 2-#10, 1-#10 GND IN A 1" C.
- 6. 100A, 208V-1Ø CONNECTION FOR TOX BOX. INSTALL 2-#3, 1-#8 GND IN A 1 1/2" C. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER.



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

A	B
C	D



REVISIONS:

#	Date	Desc.

100% CONSTRUCTION DOCUMENTS
 PROJECT: 24020
 DATE: 04-22-2024
 DRAWN BY: DAE

SHEET NAME
SITE PLAN - POWER