

NEW CONSTRUCTION OF FIRE STATION 2 CITY OF SIDNEY

2324 CAMPBELL ROAD

SIDNEY, OH 45365

FREYTAG & ASSOCIATES, INC. ARCHITECTS / ENGINEERS
ARCHITECTURAL

CONSULTANTS

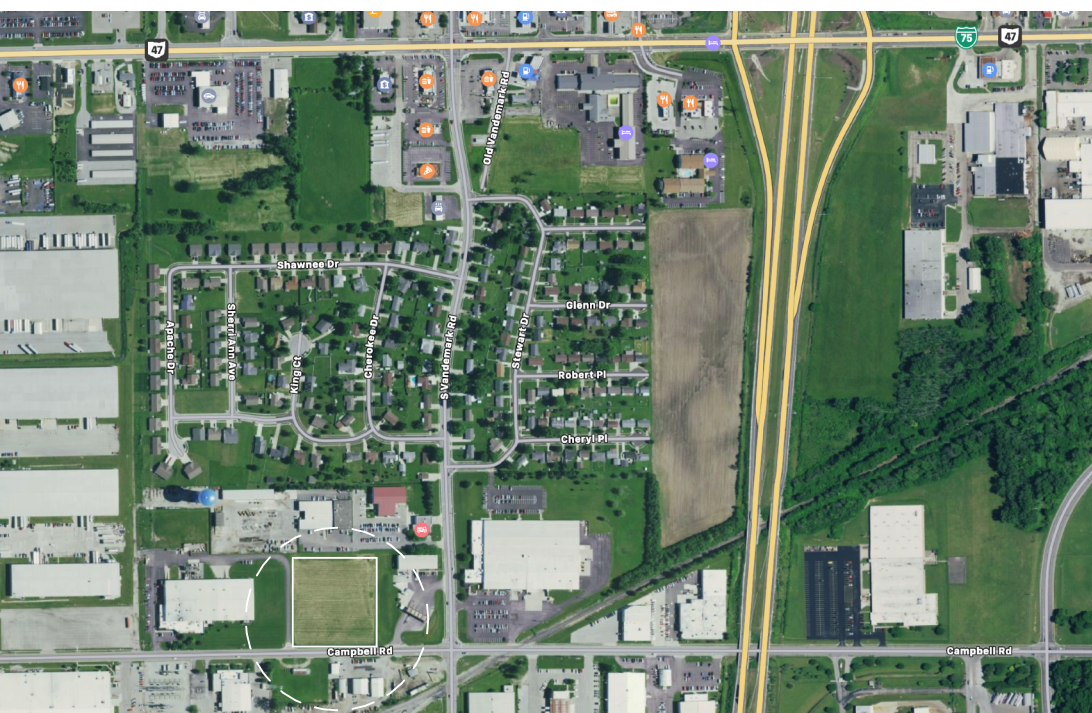
NAUMAN & ZELINSKI LLC.
PLUMBING, HVAC, ELECTRICAL, FIRE PROTECTION - ENGINEERING

M-ENGINEERING, INC.
TECHNOLOGY SYSTEMS DESIGN

JEZERINAC GEERS & ASSOCIATES, INC.
STRUCTURAL ENGINEERING

JACCYN DESIGN GROUP
LANDSCAPE/SITE DESIGN

CHOICE ONE ENGINEERING
CIVIL ENGINEERING



VICINITY MAP

ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI DOCUMENT TD 2-4 FOR ANY ABBREVIATION USED ON THE DRAWINGS BUT ARE NOT LISTED BELOW

AB	ANCHOR BOLTS	EXP	EXPANSION
AC	AIR CONDITIONING	FD	FLOOR DRAIN
AFF	ABOVE FINISHED FLOOR	FDN	FOUNDATION
		FE	FIRE EXTINGUISHER
ALT	ALTERNATIVE	FH	FIRE HYDRANT
ALUM.	ALUMINUM	FIN	FINISH
AP	ACCESS PANEL	FIN FL/FF	FINISH FLOOR
APPROX	APPROXIMATE	FIX	FIXTURE
ARCH	ARCHITECT(URAL)	FL	FLOOR
AWG	AMERICAN WIRE GAUGE	FTG	FOOTING
		FRP	FIBER REINFORCED PANEL
BD	BOARD		
BLDG	BUILDING	GA	GAUGE
BLK	BLOCK	GC	GENERAL CONTRACTOR
BLKG	BLOCKING		
BOS	BOTTOM OF STEEL	GYP. BD.	GYP. BOARD
BRG	BEARING	HB	HOSE BIBB
B.T.U.	BRITISH THERMAL UNIT	HM	HOLLOW METAL
CFM	CUBIC FEET PER MINUTE	HOR	HORIZONTAL
¢	CENTERLINE	HW	HOT WATER
CLG	CEILING	INCL	INCLUDE(D), (ING)
CLR	CLEAR	INV	INVERT
CMU	CONCRETE MASONRY UNIT	JST	JOIST
		LLV	LONG LEG VERTICAL
CO	CLEANOUT	LVR	LOUVER
COL	COLUMN	MH	MAN HOLE
CONC	CONCRETE	MIN	MINIMUM
ET	CERAMIC TILE	MTD	MOUNTED
CIC	CENTER TO CENTER PENNY (NAILS, ETC.)	MTL	METAL
		O.C.	ON CENTER
CS	CAST STONE	PEMB	PRE-ENGINEERED METAL BUILDING
DBL	DOUBLE	REF	REFERENCE
DET	DETAIL	REFG	REFRIGERATOR
DF	DRINKING FOUNTAIN	SUSP	SUSPENDED
DIA / ∅	DIAMETER	SS	STAINLESS STEEL
DIM	DIMENSION	TOM	TOP OF MASONRY
DS	DOWNSPOUT	TOS	TOP OF STEEL
EA	EACH	UNO	UNLESS OTHERWISE NOTED
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	VERT	VERTICAL
		VTR	VENT THRU ROOF
ELEC	ELECTRIC(AL)	W/	WITH
EQ	EQUAL	W/O	WITHOUT
EQUIP	EQUIPMENT		

ALTERNATES

- EXTENDED CONCRETE DRIVE
- RESINOUS FLOORING

GENERAL NOTES

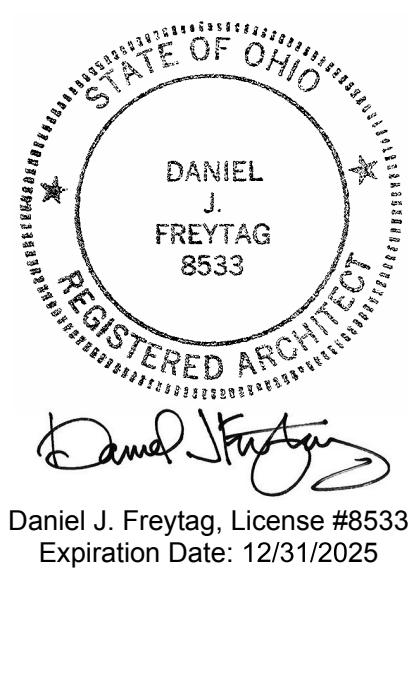
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE WORK SPACE AND FIRE SAFETY DURING CONSTRUCTION ACTIVITIES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL TRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING OR RELOCATING ALL ITEMS AFFECTING THIS WORK. ITEMS SHALL BE, BUT NOT LIMITED TO: EXIT LIGHTS, ELECTRICAL SERVICE, SECURITY SYSTEMS, HVAC SYSTEMS, THERMOSTAT CONTROLS, ETC. TO PROVIDE A COMPLETE AND OPERABLE INSTALLATION AND/OR SYSTEM, PER OWNER REQUIREMENTS AND SATISFACTION AND IN FULL COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS.
- ALL VERTICAL ELEVATIONS AND WORKING POINTS ARE GIVEN WITH REFERENCE TO LEVEL ONE FINISH FLOOR ELEVATION 100'-0" DATUM. SEE CIVIL DRAWINGS FOR ACTUAL FINISH FLOOR ELEVATIONS.
- THE DRAWINGS ARE THE GRAPHIC PORTION OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION, AND DIMENSIONS OF THE WORK. DO NOT SCALE THE DRAWINGS TO DETERMINE A DIMENSION IN QUESTION. CONSULT THE ARCHITECT FOR CLARIFICATION.
- CONTRACTOR(S) ARE TO INVESTIGATE AND VERIFY LOCATION, CONDITION, AND CAPACITY OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK PRIOR TO BEGINNING CONSTRUCTION. SEE UTILITY, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
- UNLESS NOTED OTHERWISE, ALL EXTERIOR EQUIPMENT PADS, (CONDENSING UNITS, TRANSFORMERS, ETC.) ARE INSTALLED BY THE GENERAL (LEAD) CONTRACTOR. VERIFY WITH APPROPRIATE CONTRACTOR(S) FOR REQUIRED SIZE, SLEEVES, KNOCK-OUTS, AND LOCATION. VERIFY WITH LOCAL UTILITY COMPANIES FOR ANY ADDITIONAL REQUIREMENTS (KNOCK-OUTS, ETC.) ASSOCIATED WITH EQUIPMENT PADS.
- ENSURE THAT ADJOINING MATERIALS ARE COMPATIBLE.

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CITY OF SIDNEY
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These designs and all items depicted herein, whether in writing or graphically, as instruments of professional service, may not be altered or changed, in any way, without the prior knowledge, and written consent of the Architect. Any change made without the Architect's written approval will void all such documents and instruments and the Architect will not be personally liable for any damage, harm or loss caused thereby.

REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

COVER SHEET
CS

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 12A).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF SIDNEY STANDARDS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF SIDNEY.

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

STREETS, STORM SEWER, WATER, AND SANITARY
CITY OF SIDNEY
201 W. POPLAR STREET
SIDNEY, OHIO 45365
(937) 498-8142
ATTN: CHAD ARKENBERG

TELEPHONE
CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OHIO 45415
(937) 396-8611
ATTN: JUSTIN TEGTMEYER

TELEPHONE
BRIGHTSPEED
125 N. MAIN STREET
SIDNEY, OHIO 45365
(937) 498-5105
ATTN: GAGE RYAN

CABLE
NKTTELCO
301 W. SOUTH STREET
NEW KNOXVILLE, OHIO 45871
(419) 753-5019
ATTN: RODNEY HARTINGS

ELECTRIC
AES
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 331-4521
ATTN: WILLIAM GOURLEY

GAS
CENTERPOINT ENERGY
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
(937) 312-2521
ATTN: GREGORY FISHMAN

OHIO UTILITIES PROTECTION SERVICE 2
WORKING DAYS BEFORE YOU DIG CALL
TOLL FREE 800-362-2764

UTILITY INTERFERENCE

IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE CITY OF SIDNEY BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF SIDNEY. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE CITY OF SIDNEY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, CITY OF SIDNEY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, CITY OF SIDNEY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING AND BY-PASS PUMPING

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (I.E. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

<u>TYPES OF PIPE PERMITTED</u>	<u>ODOT MATERIALS NUMBERS</u>
CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP)	707.33
POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP)	707.65
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

GENERAL NOTES

1. INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF SIDNEY STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-IP AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTIONS(S) OR AS NOTED HERE. ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL ALSO BE ODOT QC-IP. ALL CONCRETE SHALL BE REINFORCED WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF SIDNEY STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

SAWCUT PAVEMENT JOINTS

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.



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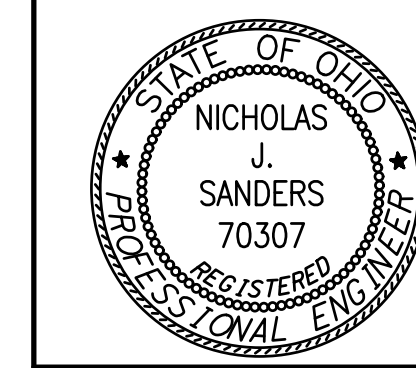
NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

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Choice One
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GENERAL NOTES

C1.1

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

WATER LINE CROSSING SEPARATION

CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

DOWNSPOUTS

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPVSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

ASPHALT PAVEMENT REPLACEMENT NOTE

ANY EXISTING PAVEMENT THAT IS TO BE REMOVED SHALL BE SAWCUT FULL DEPTH AND RESTORED TO MATCH THE EXISTING PAVEMENT CROSS SECTION UNLESS OTHERWISE NOTED IN THE PLANS.

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF SIDNEY AND/OR OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING

CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT. UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

GENERAL NOTES FOR CIVIL WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ANY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN ORDER TO DETERMINE THE EXISTING GROUND AND SITE CONDITIONS. FOR SOIL TYPE AND GROUND WATER TABLE, THE CONTRACTOR IS ENCOURAGED TO UTILIZE ANY AVAILABLE DATA TO ESTIMATE GROUND CONDITIONS. SHOULD THE BIDDING CONTRACTOR REQUIRE ADDITIONAL TEST HOLES PRIOR TO BIDDING IN ORDER TO DETERMINE OR VALIDATE GROUND CONDITIONS, THIS CAN BE COMPLETED AT THE DISCRETION OF THE OWNER. NO TEST HOLES ARE TO BE DUG WITHOUT CONTACTING THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION AND WITHOUT RECEIVING WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED, REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON-SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

7. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS. IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNER'S REQUIREMENTS ARE TO BE FOLLOWED UNLESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DEFINED BY LOCAL OR GOVERNING AUTHORITIES. WHERE A NON-COMPLIANCE ISSUE IS NOTED, THE CONTRACTOR IS TO MAKE THE OWNER AND ENGINEER AWARE OF THE GOVERNING CODE.

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES, NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH THE EXCAVATED TRENCH. ANY DRAINAGE TILES ENCOUNTERED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

13. CONTRACTOR TO REFER TO ODOT SPECIFICATION, ITEM 659 FOR SEEDING AND MULCHING UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL NOT SEED ANY AREA UNTIL OWNER HAS INSPECTED FINAL TOPSOIL GRADING.

14. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL FENCES, LAWN DECORATIONS, TREES, SHRUBS, PLANTING, VEGETATION ETC. WHICH IS DAMAGED, DISTURBED OR REMOVED DURING CONSTRUCTION.

15. DURING PAVING OPERATIONS, THE CONTRACTOR MUST SUBMIT A WRITTEN PLAN IDENTIFYING DRIVE AREAS WITHIN THE SITE THAT WILL BE SHUT DOWN FOR CONSTRUCTION OPERATIONS PRIOR TO START OF ANY WORK IN THOSE AREAS. CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE FOR TRAFFIC IN ANY AREAS SO DESIGNATED BY THE OWNER THROUGHOUT ALL CONSTRUCTION OPERATIONS.

ITEM 638 WATER MAIN, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 WATER MAINS AND SERVICE BRANCHES EXCEPT AS HEREIN MODIFIED.

ALL WATER SYSTEM WORK, MATERIALS, PROCEDURES, INSTALLATION, TESTING AND DISINFECTION SHALL BE PER THE PROJECT PLANS AND SPECIFICATIONS AND PER CITY OF SIDNEY STANDARDS. ALL JOINTS AND PIPING (TEES, BENDS, ETC.) SHALL BE PROPERLY RESTRAINED PER CITY OF SIDNEY STANDARDS. THERE SHOULD BE NO REASON TO TAKE EXISTING WATER MAINS OUT OF SERVICE DURING THIS PROJECT. ALL CONNECTIONS CAN BE ACCOMPLISHED BY USING PROPER FITTINGS AND LIVE TAP METHODS. PRIOR TO CONNECTING PROPOSED WATER MAINS OR SERVICE LINES TO EXISTING WATER MAINS, THE CONTRACTOR MUST PROVIDE AT LEAST A 48 HOUR NOTICE TO THE CITY.

IF CONFLICTS ARISE IN MAINTAINING EX. WATER SERVICES, THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THE CONTRACTOR TO SUPPLY TEMPORARY WATER SERVICES. THE CITY SHALL TAKE EXISTING WATER MAINS OUT OF SERVICE DURING SHORT PERIODS WHEN CONNECTIONS TO PROPOSED WATER MAINS ARE NECESSARY.

ALL PROPOSED WATER LINES SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED PER CITY OF SIDNEY STANDARDS. ALL TESTING AND DISINFECTION SHALL BE WITNESSED BY AND APPROVED BY THE OWNER.

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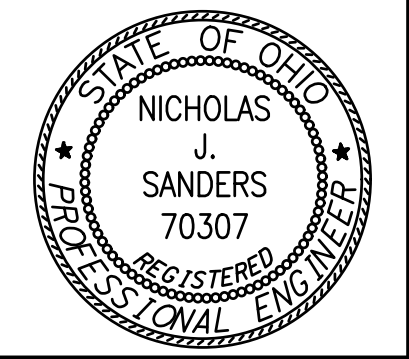
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GENERAL NOTES

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THIS WORK SHALL CONSIST OF EXCAVATION, BEDDING AND INSTALLING THE NEW WATER MAIN INCLUDING ALL BACKFILL. THIS ITEM SHALL ALSO INCLUDE CONNECTION AND NECESSARY SAW CUTTING TO THE EXISTING WATER MAIN. THIS ITEM SHALL ALSO INCLUDE DEWATERING NECESSARY FOR INSTALLATION OF THE WATER MAIN. PAVEMENT RESTORATION, CURB AND GUTTER AND PLAIN CONCRETE PAVEMENT AND SIDEWALK REPLACEMENT SHALL BE INCLUDED IN THIS ITEM. THE WORK SHALL INCLUDE ALL COMPACTION, ALL TESTING AND ALL DISINFECTION PER THE PROJECT PLANS AND SPECIFICATIONS AND PER CITY OF SIDNEY STANDARDS. THIS ITEM SHALL ALSO INCLUDE ALL FITTINGS AND COUPLINGS NECESSARY TO CONNECT TO THE EXISTING WATER MAIN.

PAYMENT FOR ITEM 638 WATER MAIN FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 638 6-INCH FIRE HYDRANT ASSEMBLY, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 WATER MAINS AND SERVICE BRANCHES EXCEPT AS HEREIN MODIFIED.

ALL FIRE HYDRANTS AND ALL RELATED WORK SHALL BE PER THE PROJECT PLANS AND SPECIFICATIONS AND PER CITY OF SIDNEY STANDARDS AND AS DIRECTED BY THE CITY OF SIDNEY FIRE DEPARTMENT. THE FIRE HYDRANT COLOR, THE PUMPER NOZZLE AND STORTZ CONNECTION AND CAP SHALL BE PER CITY STANDARDS. THE ASSEMBLY WILL CONSIST OF THE FIRE HYDRANT AND ALL ASSOCIATED PARTS, PIPE TEE, PIPE BRANCH AND FITTINGS, A GATE VALVE WITH VALVE BOX, THRUST BLOCKING AND RESTRAINING GLANDS.

PAYMENT FOR ITEM 638 6-INCH FIRE HYDRANT ASSEMBLY, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1 1/2 IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

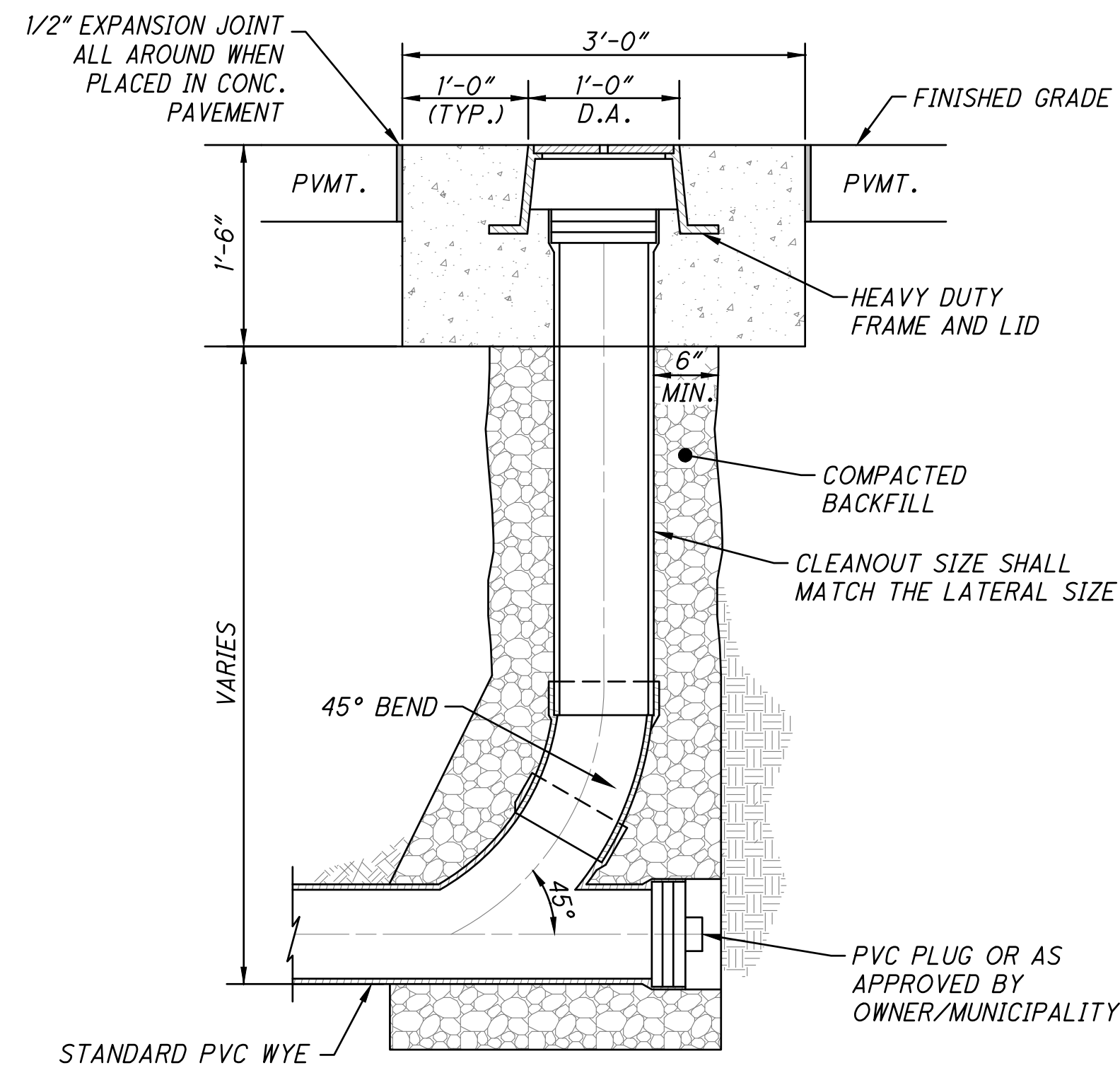
IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING. ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

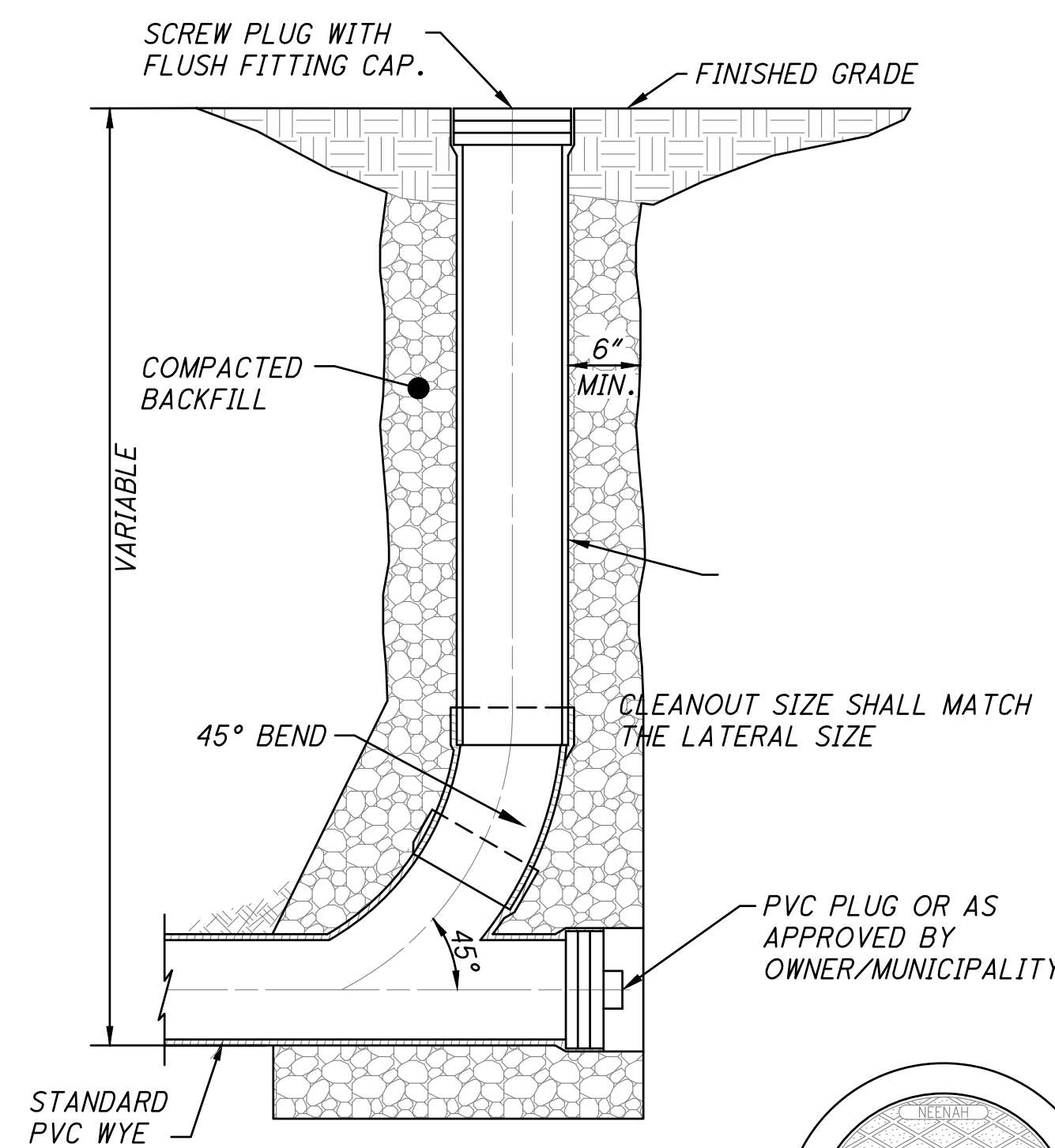
PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

NOTES

- A. CLEANOUT REQUIRED AT ALL R/W OR EASEMENT LINES.
- B. CLEANOUT MATERIALS SHALL BE SCHEDULE 40 GLUED JOINTS OR SDR-35 PVC MATCHING THE LATERAL PIPE SIZE DIAMETER.
- C. CLEANOUT FRAME AND LID SHALL BE EQUAL TO NEENAH R-1976 OR EJIW 1578, HEAVY DUTY WITH THE LID MARKED "STORM"



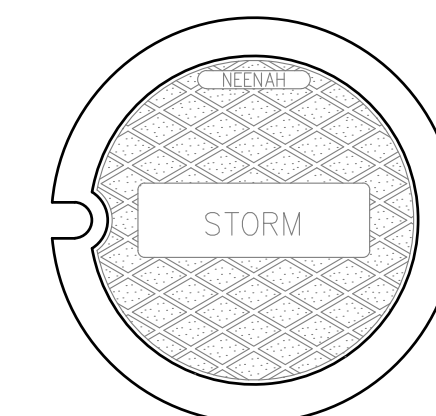
CLEANOUT (IN-PAVEMENT AREAS) DETAIL



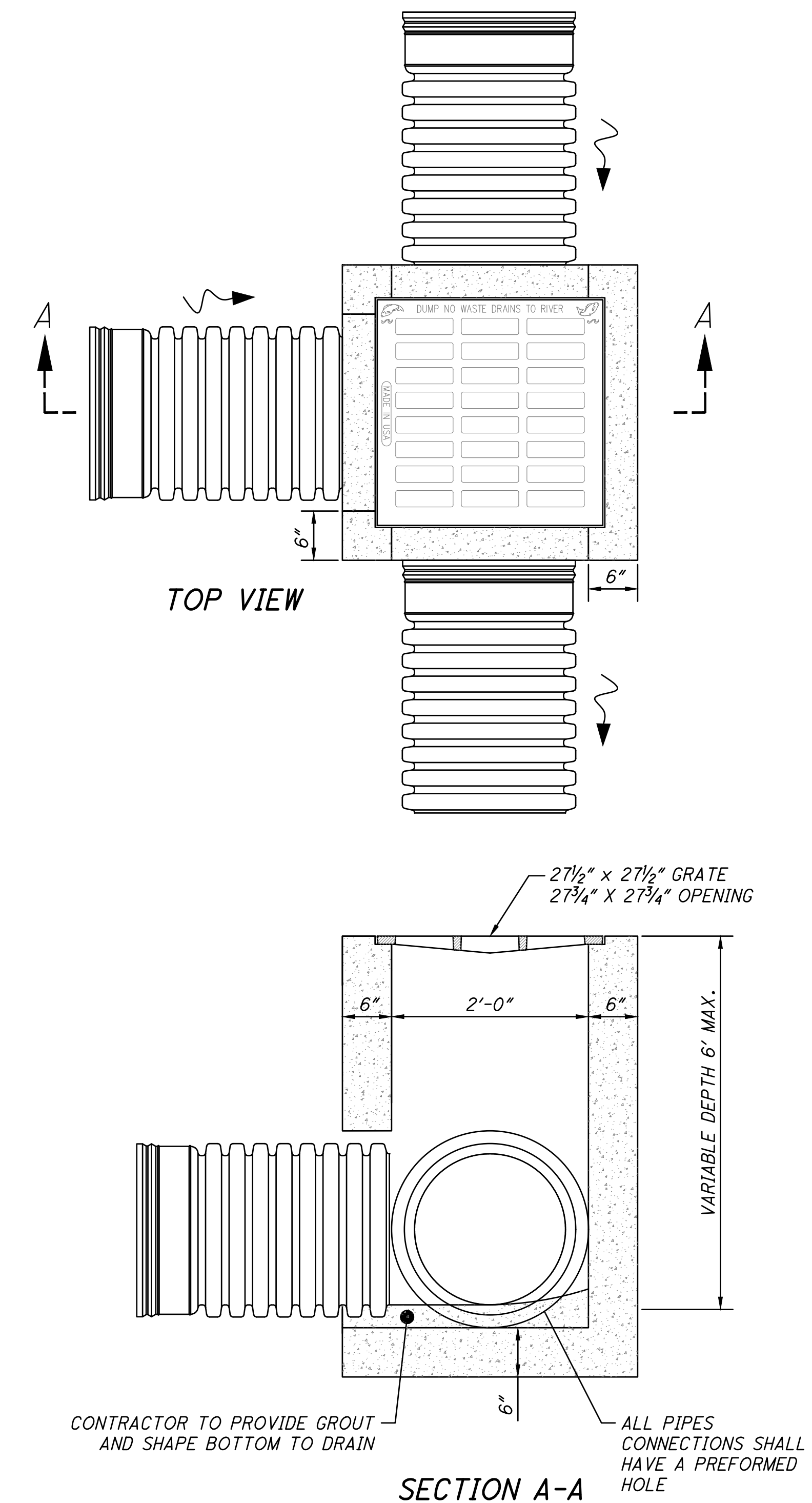
CLEANOUT (NON-PAVEMENT AREAS) DETAIL

STORM CLEANOUT DETAILS

NTS



CLEANOUT LID



NOTES

- A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
- B. CATCH BASINS INSTALLED IN NON-PAVED AREAS SHALL BE PROVIDED WITH A RECESSED GRATE MANUFACTURED BY NEENAH CATALOG NO. R-4859-C (TYPE A) OR EAST JORDAN IRON WORKS 5110 (TYPE M3) OR EQUIVALENT.
- C. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
- D. GRATE ELEVATION TO BE PLACED 4" - 6" BELOW THE NORMAL DITCH LINE RETURNING TO NORMAL 10'-0" ON EACH SIDE OF STRUCTURE.
- E. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.
- F. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.

2-2B CATCH BASIN (NON-PAVED AREAS)

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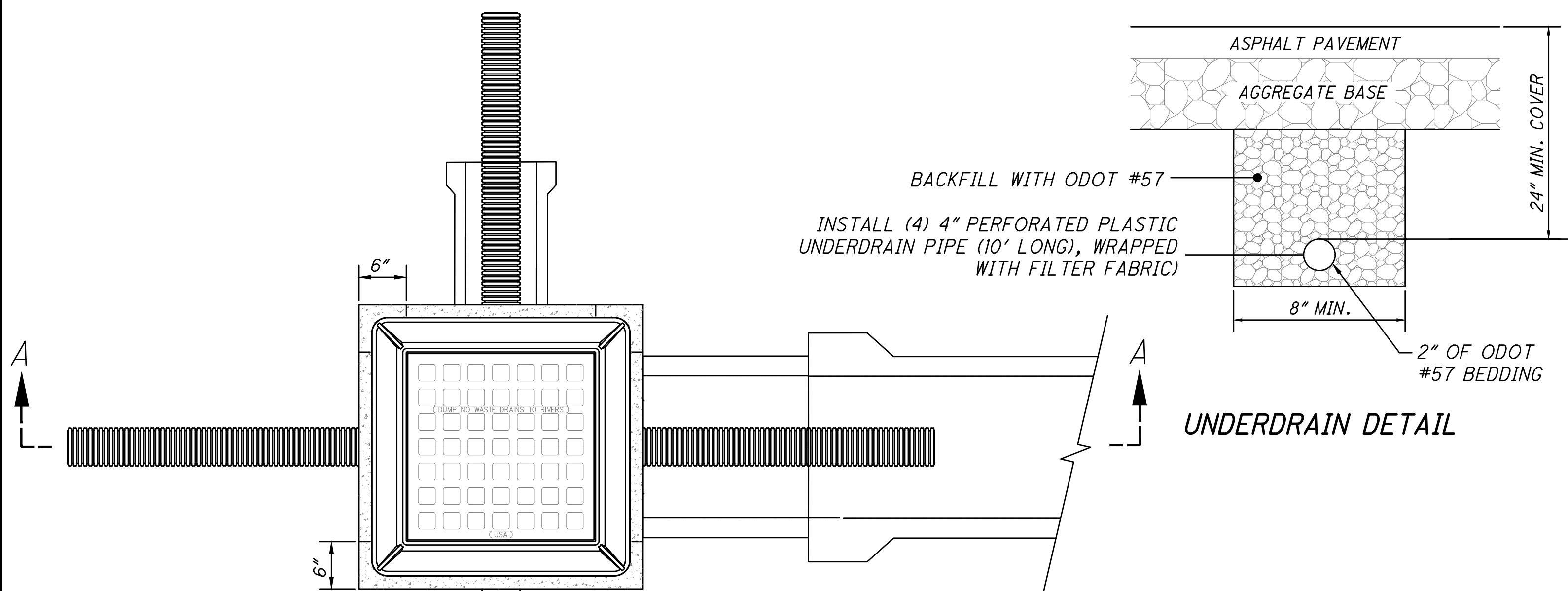
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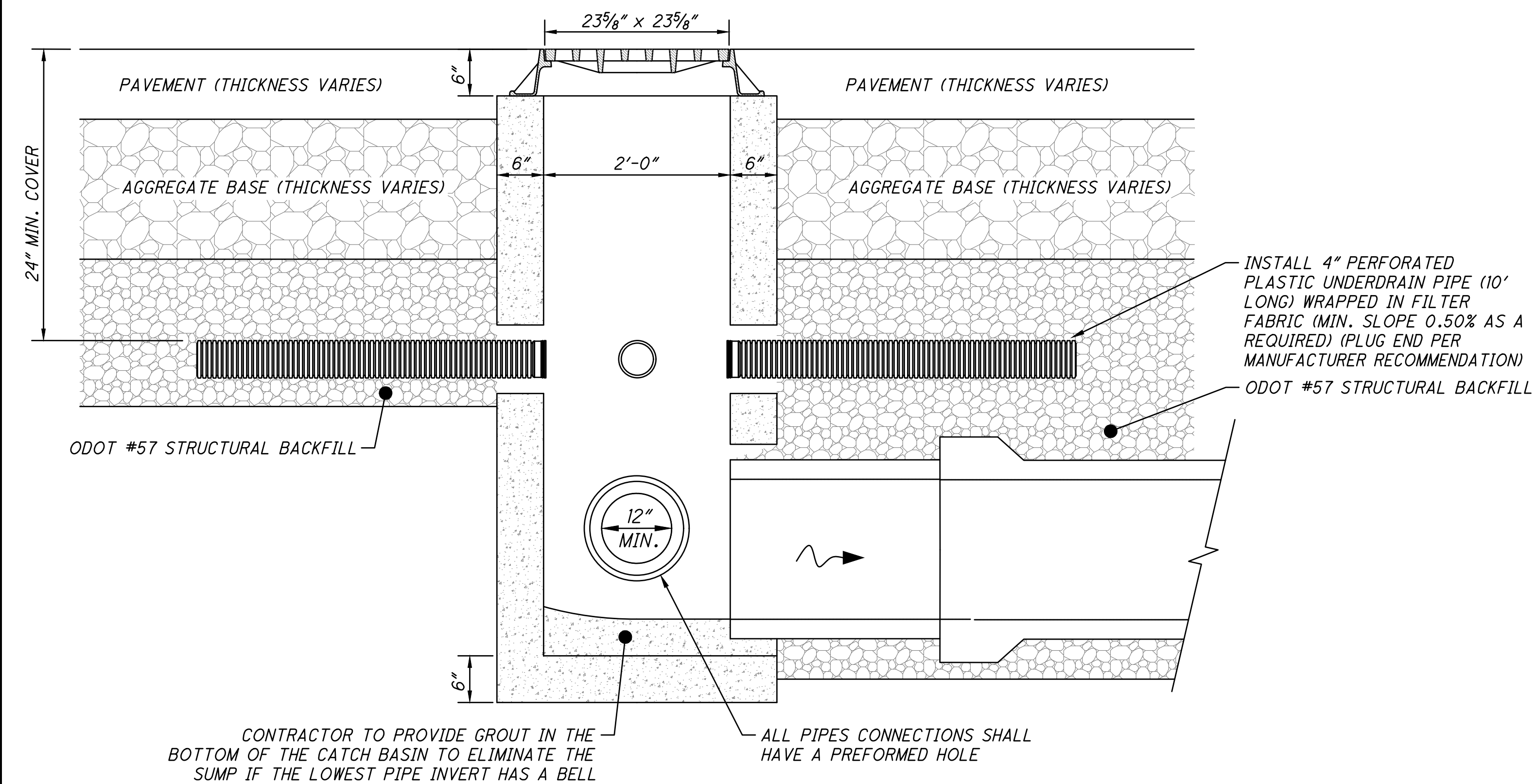


PLAN VIEW

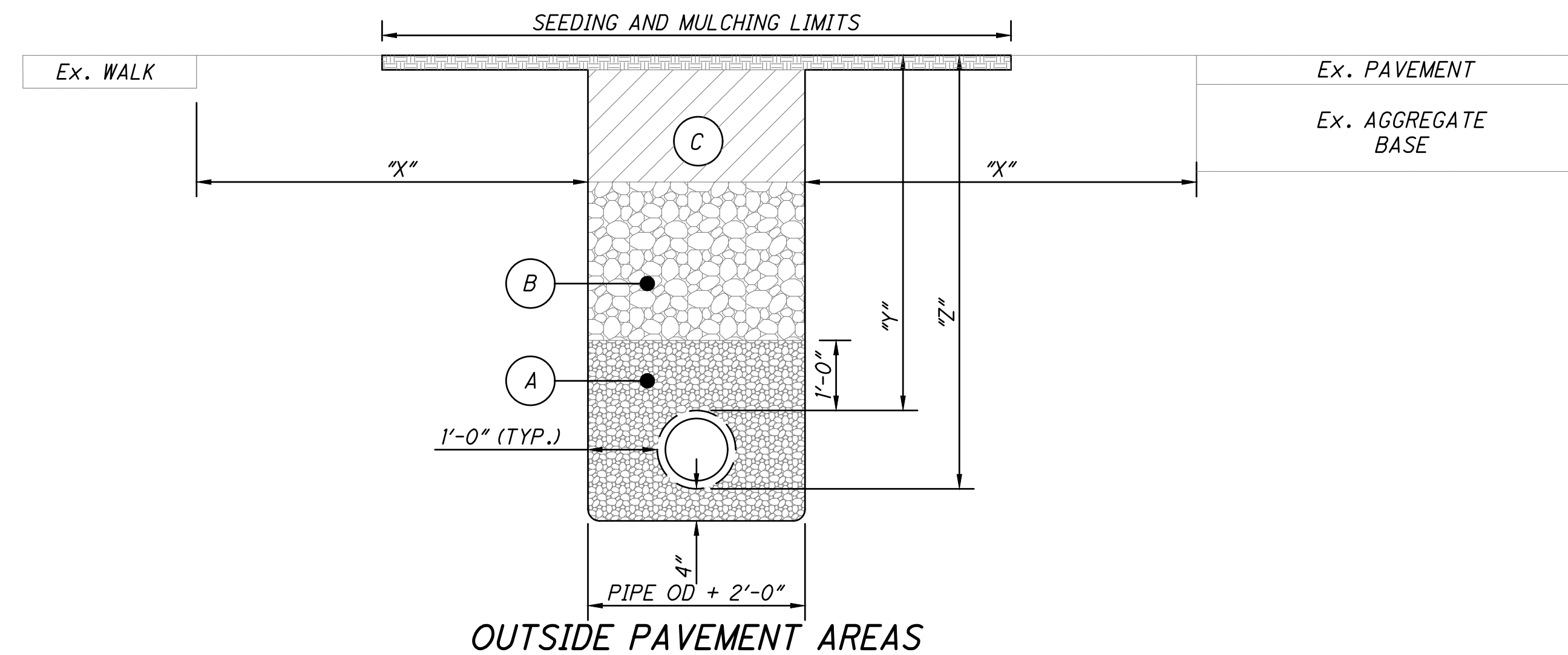
10'-4" CORRUGATED POLYETHYLENE DRAINAGE TUBING, 707.31 (PERFORATED) WRAPPED IN FILTER FABRIC

NOTES

- LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
- CATCH BASINS INSTALLED IN PAVED AREAS SHALL BE PROVIDED WITH A FRAME AND GRATE MANUFACTURED BY NEENAH R-3405 OR EAST JORDAN IRON WORKS (FRAME 5250Z) AND GRATE (5250M).
- CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
- CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.
- PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.
- THE CONTRACTOR SHALL ENSURE THE FRAME IS SECURELY BOLTED/FASTENED TO THE CATCH BASIN DURING INSTALLATION IN ALL PAVED AREAS (GRAVEL, ASPHALT AND CONCRETE).



2-2C CATCH BASIN (PAVED AREAS, WITH UNDERDRAINS)

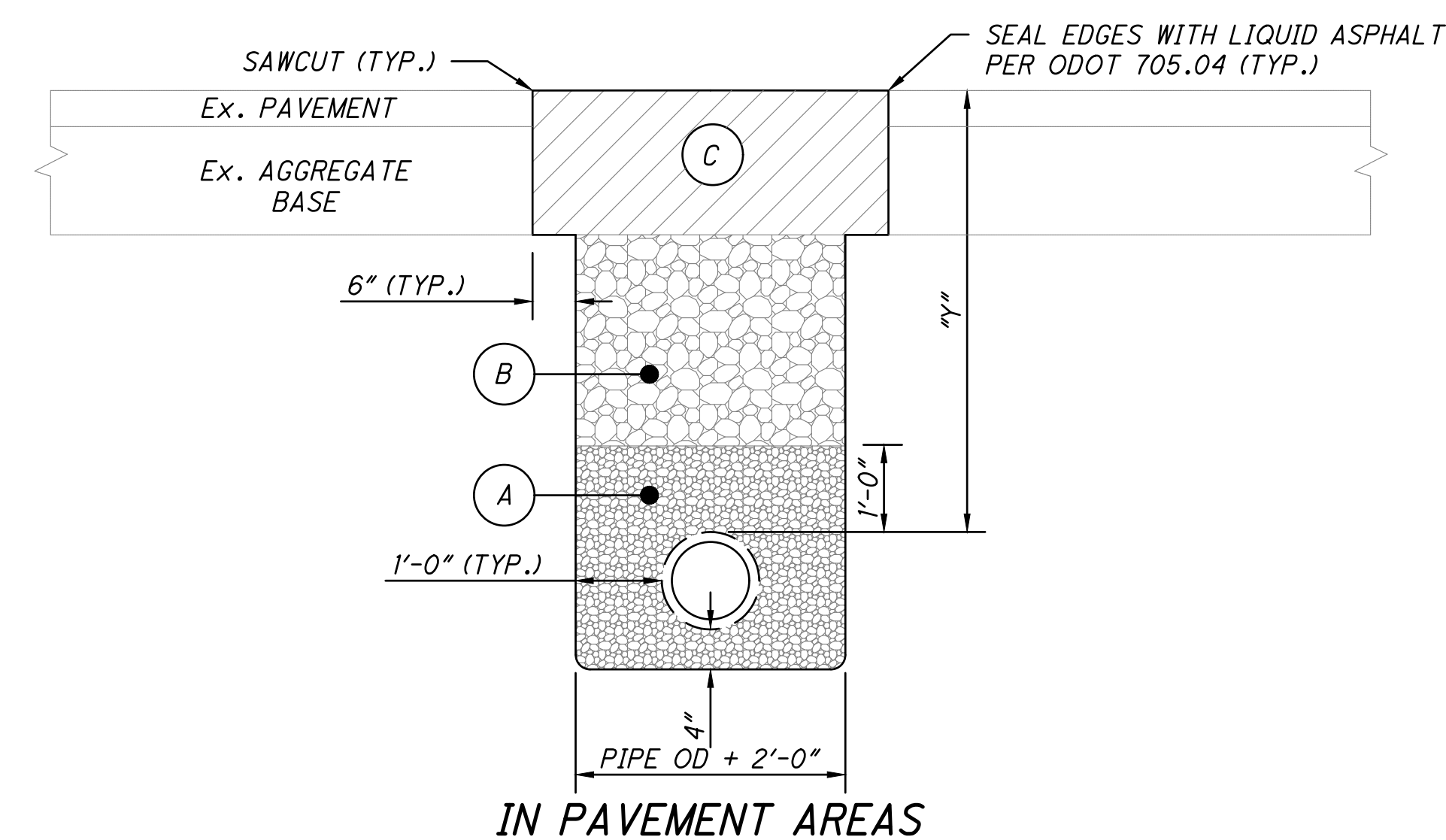


OUTSIDE PAVEMENT AREAS

"X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.

"Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.

"Y"= DEPTH OF COVER FOR PROPOSED CONDUIT
 WATER MAINS.....4'-6" MIN. (REFER TO PROFILE)
 STORM SEWERS.....2'-0" MIN. (REFER TO PROFILE)
 SANITARY SEWERS.....4'-0" MIN. (REFER TO PROFILE)



IN PAVEMENT AREAS

NOTES

- BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 611 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE MUNICIPALITY. THERE SHALL BE 4" MIN. BEDDING BELOW THE PIPE. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:
 - WATER MAIN, WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES - SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVEL.
 - STORM AND SANITARY SEWERS - SHALL BE CRUSHED LIMESTONE OR NATURAL CRUSHED STONE.
- STRUCTURAL BACKFILL - DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY MUNICIPALITY TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.

FOR "OUTSIDE PAVEMENT AREAS":
 ALL TRENCHES WHERE "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACTED NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE MUNICIPALITY. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

ALL TRENCHES WHERE "Z" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXIMUM LIFTS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME NATIVE BACKFILL CAN BE USED.

FOR "IN PAVEMENT AREAS":
 ALL TRENCHES SHALL HAVE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE) BACKFILL PLACED FROM THE TOP OF THE BEDDING TO THE BOTTOM OF THE ROADWAY BASE.
- ALL "OUTSIDE PAVEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED PER ODOT 659. ALL "IN PAVEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAVEMENT COMPOSITION PROVIDED IN THE HATCH LEGEND. THE TRENCH DETAIL SHOWS THE PAVEMENT REPAIR LIMITS. ANY PAVEMENT REPAIR BEYOND THIS WILL BE AT THE COST OF THE CONTRACTOR.

TRENCH DETAIL

NTS

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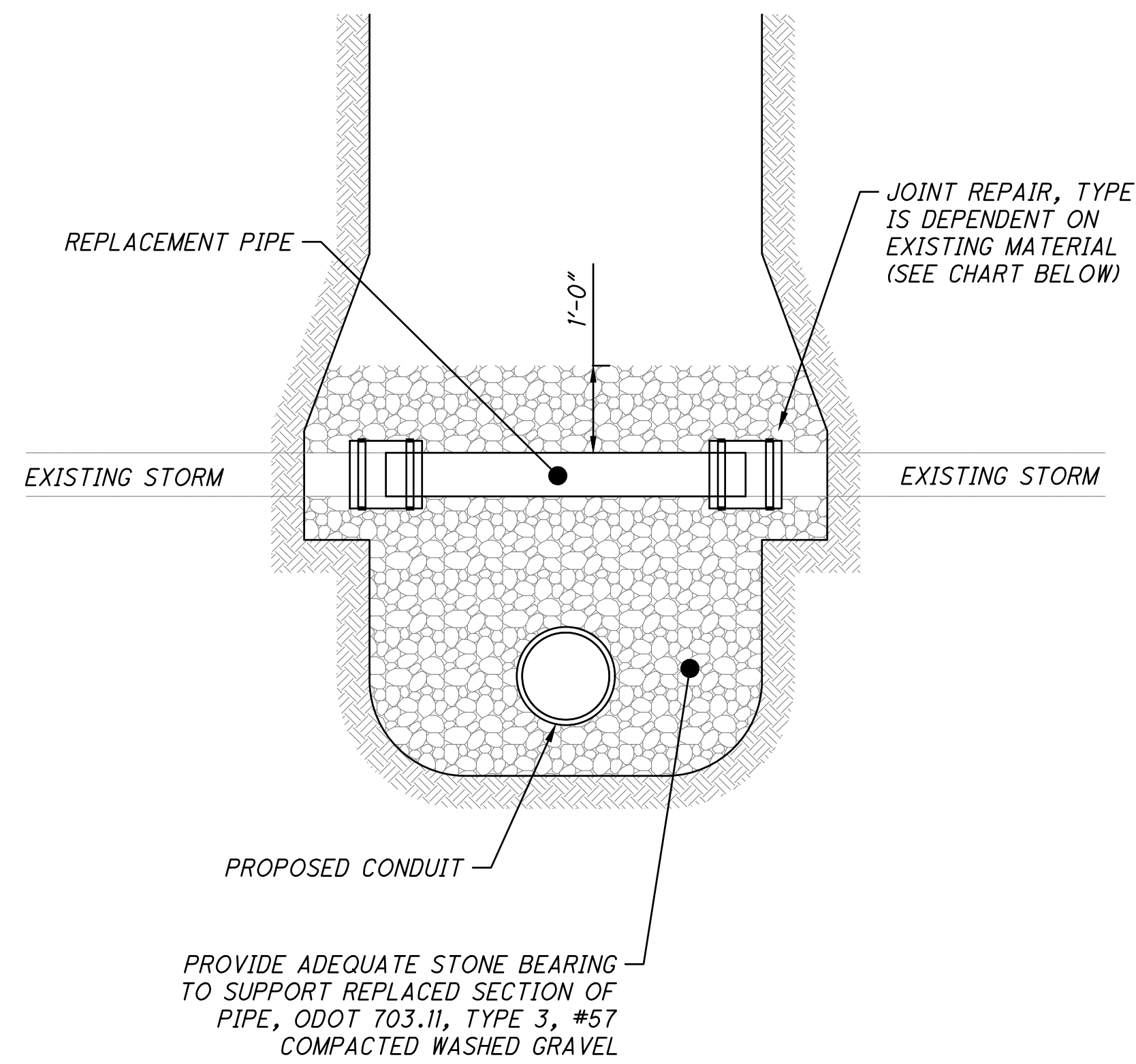
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GENERAL NOTES

C1.4

SEE TRENCH DETAIL FOR PROPER BACKFILLING



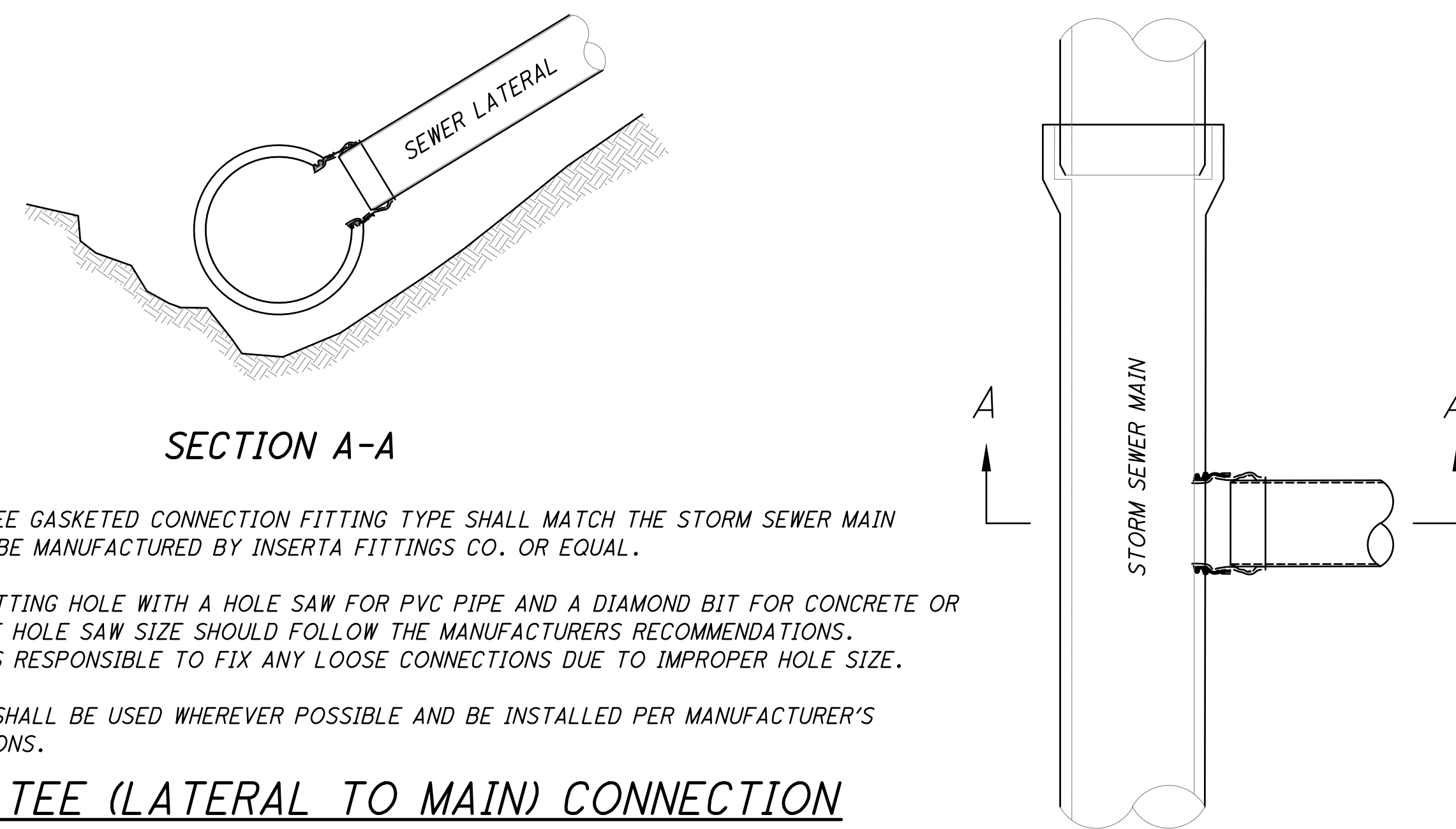
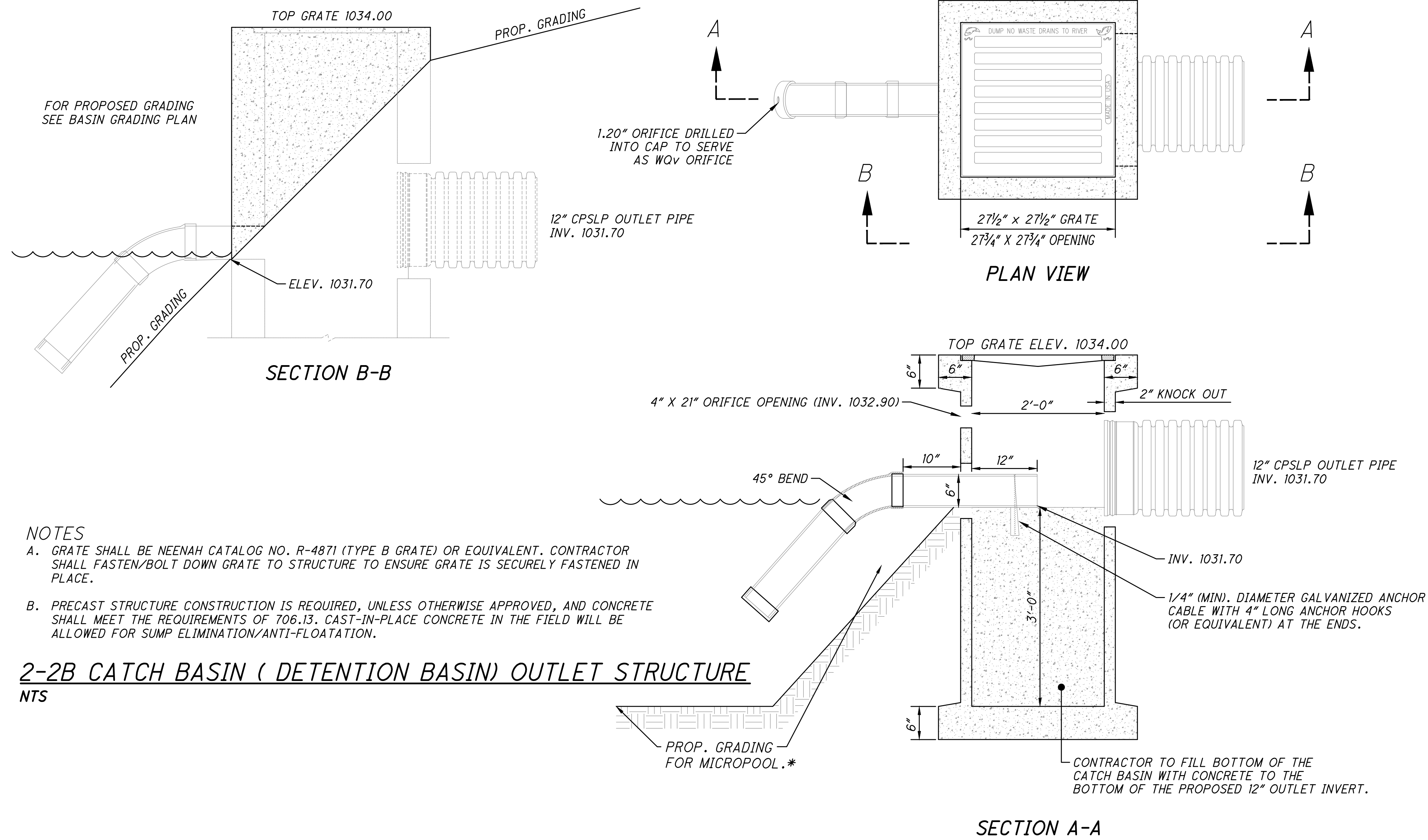
EXISTING PIPE MATERIAL	JOINT REPAIR
PVC	STAINLESS STEEL SOLID SLEEVE PLASTIC TO PLASTIC, PVC COUPLING ASTM D-3034/F-1336PSM OR EQUAL
OTHER THAN PVC (CLAY, DUCTILE, ETC.)	STAINLESS STEEL SOLID SLEEVE COUPLINGS WITH STAINLESS STEEL BANDS, EACH SIDE, OR EQUAL
CMP	CORRUGATED METAL PIPE COUPLING
RCP	CONCRETE COLLAR

NOTES

- CONCRETE REPAIRS OR PATCHES ARE UNACCEPTABLE.
- ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR MUST BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ANYTHING REMOVED, REPLACED, AND/OR CONNECTED TO THE STORM SEWER MUST BE NOTED ON THE AS-BUILT DRAWINGS AND MUST BE INSPECTED BY THE INSPECTOR BEFORE THEY ARE RECOVERED.
- ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION MUST BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE MUNICIPALITY.

REPAIR OF EXISTING FIELD TILE OR STORM PIPE DETAIL

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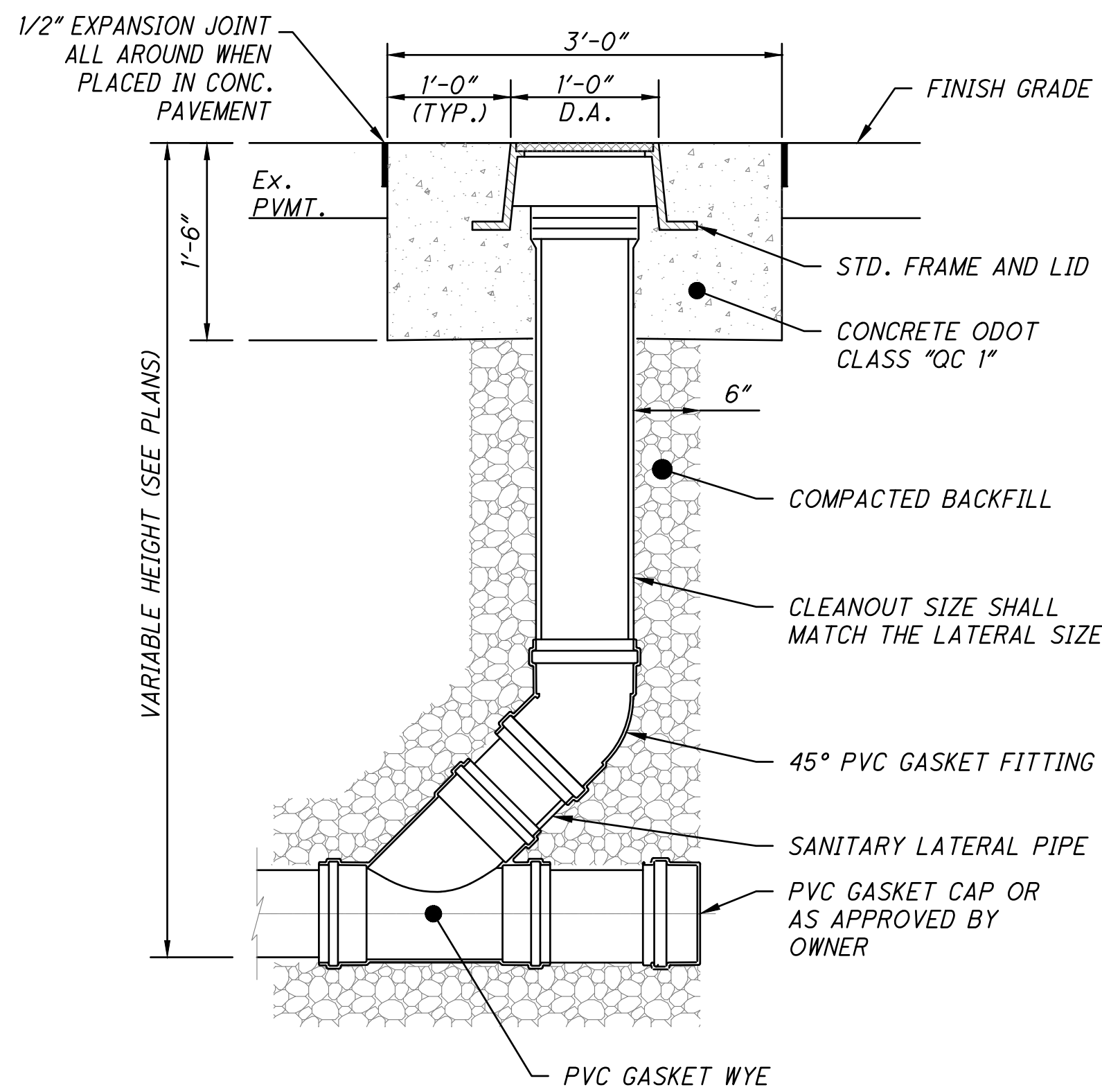
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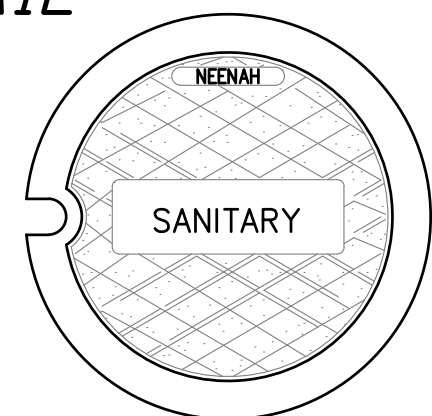
GENERAL NOTES

C1.5

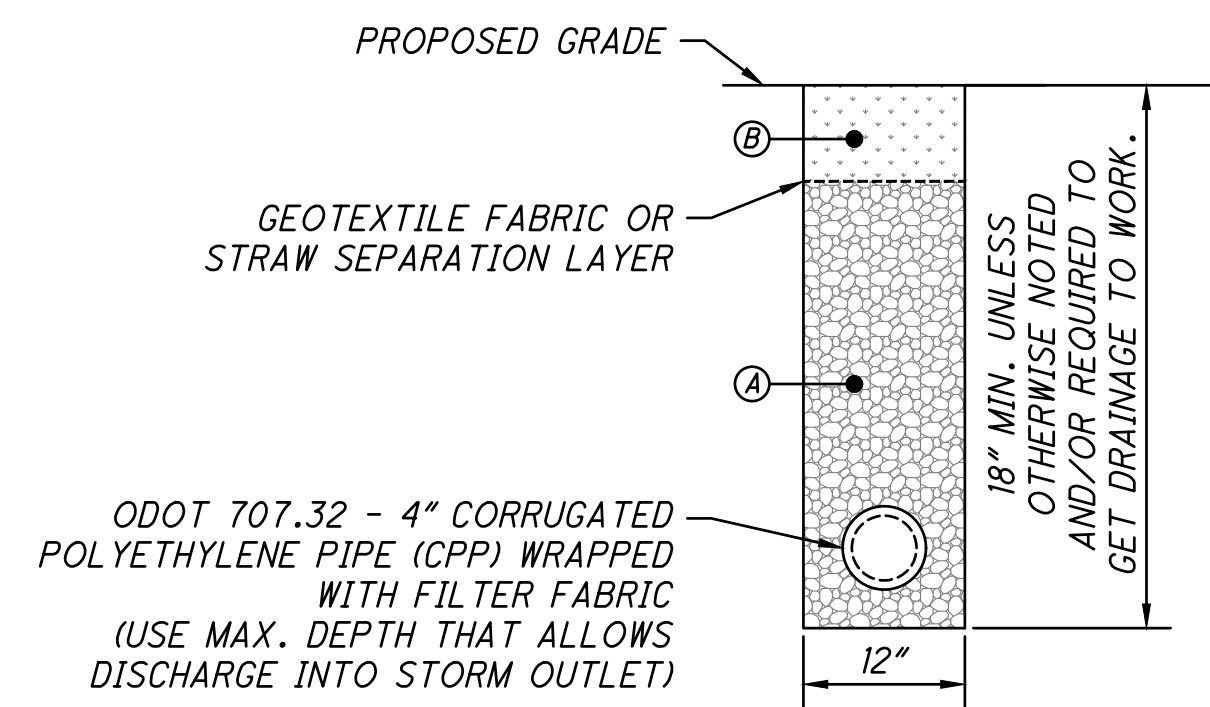


SANITARY ONE-WAY CLEANOUT DETAIL (TRAFFIC AREAS)

- NOTES**
- A. CLEANOUT REQUIRED AT THE R/W OR EASEMENT LINE UNLESS OTHERWISE SHOWN IN THE PLANS.
 - B. CLEANOUT MATERIALS SHALL BE SCH. 40 (GLUED JOINTS) OR SDR-35 PVC AND THE DIA. SHALL MATCH THE LATERAL PIPE DIA.
 - C. TRACER WIRE REQUIRED FOR EACH SANITARY SEWER LATERAL FROM THE MAIN TO THE CLEANOUT. TRACER WIRE SHALL BE EXTENDED UP THE CLEANOUT RISER TO A POINT JUST BELOW CLEANOUT CAP WHERE A 3/16" HOLE SHALL BE DRILLED THROUGH THE WALL OF THE PIPE.
 - D. CLEANOUT FRAME AND LID SHALL BE NEENAH R-1976, EJIW 1578ZPT FRAME/1578A LID, OR SIGMA VB2276. LID MARKED "SANITARY"
 - E. THE CLEANOUT AND ALL THE COMPONENTS SHOWN IN THE DETAILS SHALL BE INCLUDED IN THE COST OF ITEM 611 SANITARY SEWER LATERALS.

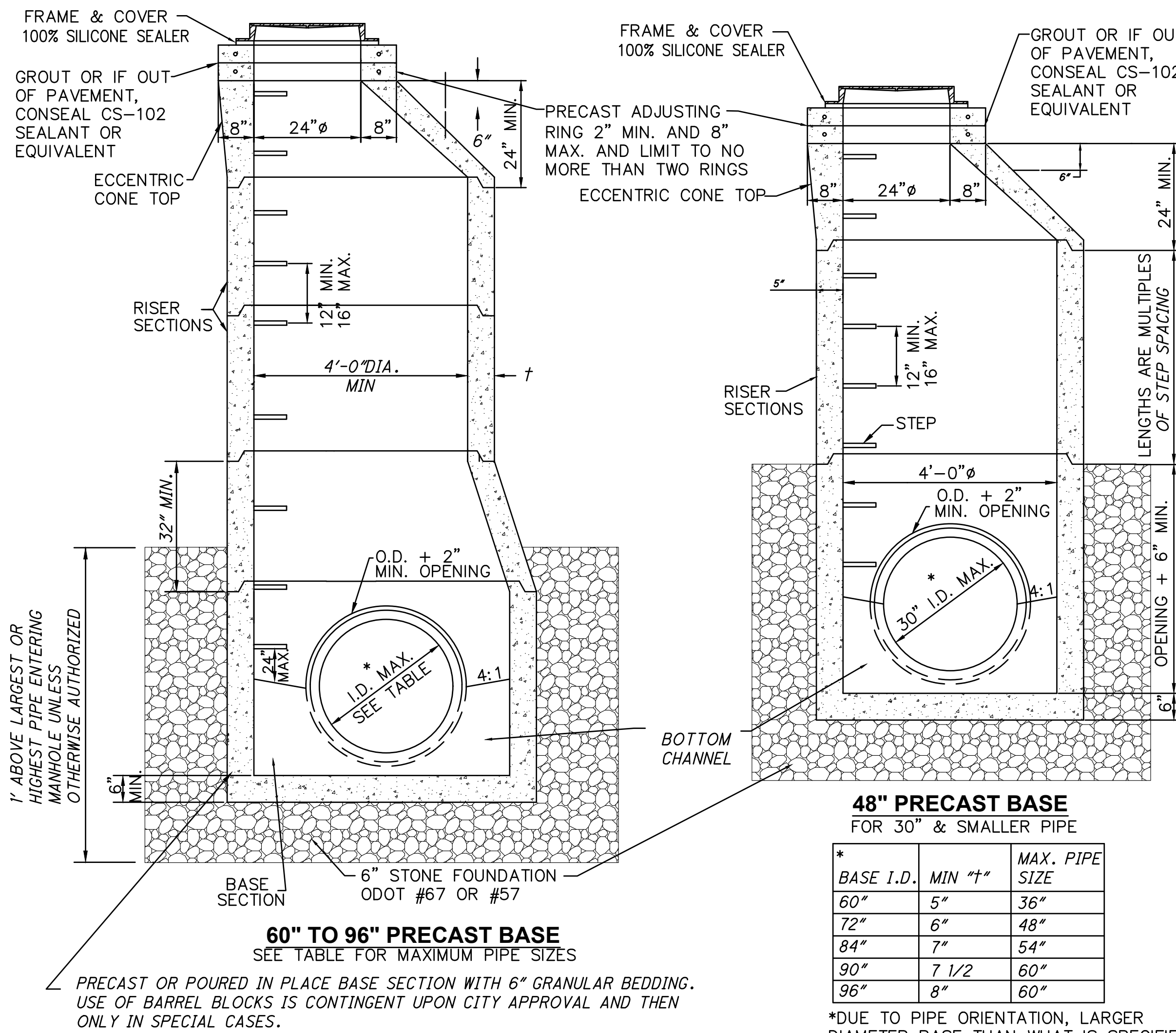


CLEANOUT LID



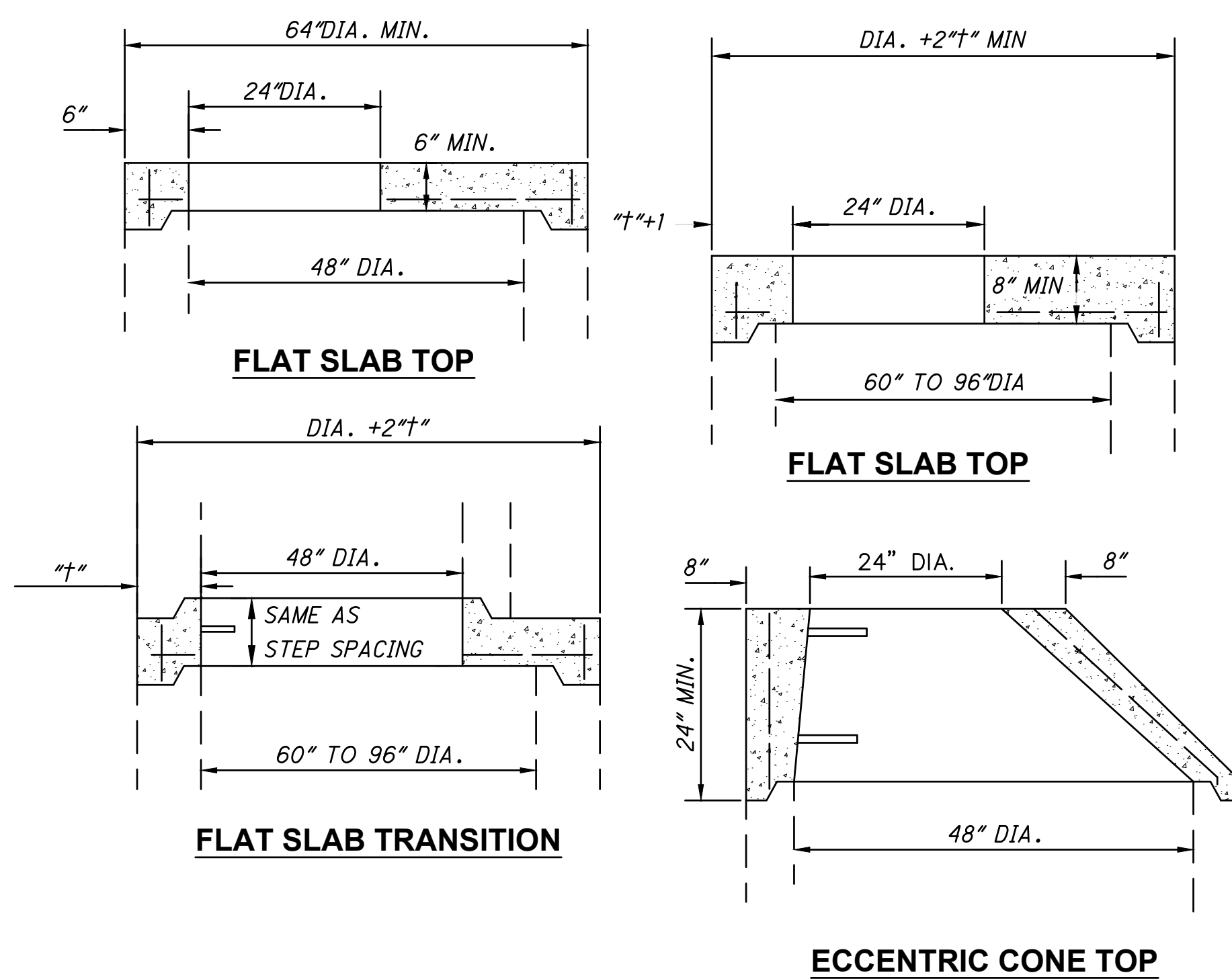
- (A) BACKFILL WITH ODOT #57 AGGREGATE
- (B) NATIVE SOIL BACKFILL (12" MIN THICKNESS)

UNDERDRAIN TRENCH DETAIL (IN GRASS AREAS)



TYPE 3 STORM MANHOLE AND DETAILS

REVISIONS: 10-12-09 07-22-13	DATE APPROVED: 06/03/2020 PAGE No. 600-5
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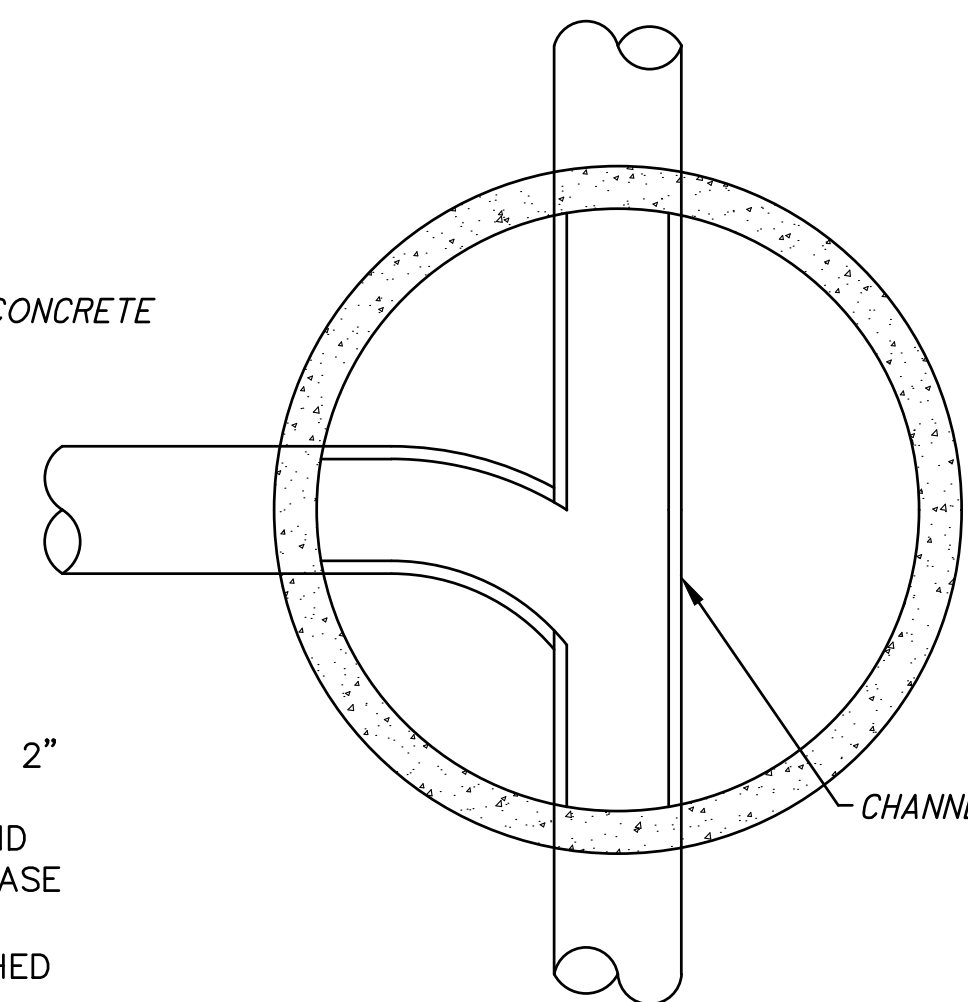
MANHOLE REPAIR CASTING CONSTRUCTION

- NOTES:**
1. PRECAST CONCRETE ADJUSTING RINGS- ENCASE WITH CONCRETE 6" DOWN FROM BARREL TOP AND UP TO WITHIN 2" OF SURFACE AND EXTENSIONS.
 2. SET MANHOLE, PRECAST CONCRETE ADJUSTING RINGS AND CASTING THEN PAVE OVER MANHOLE. THEN DIG OUT, ENCASE COLLARS AND CASTING AS PER DETAIL WITH CONCRETE TO WITHIN 2" OF SURFACE. THE MANHOLE WILL HAVE A PATCHED RADIUS OF (2") ASPHALT.

BASE I.D.	MIN **	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	60"

TYPE 3 STORM MANHOLE DETAILS

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SECTIONAL PLAN

NOTE
ALL INVERTS TO BE CHANNLED FOR OPTIMUM FLOW.

- NOTES**
- A. STORM MANHOLE FRAME AND APPROVED VENTED LID SHALL BE EQUAL OF NEENAH NO. R-1767 OR EAST JORDAN IRON WORKS NO. 1600. "STORM SEWER" LETTERING TO CASTING.
 - B. TOP AND TRANSITION (OR REDUCER) SECTIONS MAY BE EITHER ECCENTRIC CONE OR FLAT SLAB.
 - C. OPENINGS IN RISER SECTIONS FOR 18" AND SMALLER INLET PIPES MAY BE PREFABRICATED OR CUT IN THE FIELD PROVIDED THE SIDES OF THE PIPE AT THE SPRING LINE DO NOT PROJECT INTO THE MANHOLE.
 - D. MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT SHALL COMPLY WITH ODOT REQUIREMENT OF 706.13 (ASTM C-478).
 - E. LOCATE THE CENTERLINE OF MANHOLE CONES OVER THE CENTERLINE OF THE MAIN SEWER WHENEVER POSSIBLE.
 - F. FOR PIPE SIZES LARGER THAN 60", REFER TO ODOT TYPE 4 TO 5 MANHOLE.
 - G. NO LATERALS MAY PROTRUDE INTO THE INTERNAL MANHOLE.
 - H. MAXIMUM SPACING SHALL BE 400'.
 - I. WHEN CONNECTING TO AN EXISTING STORM MANHOLE CARE SHALL BE TAKEN TO KEEP OPENING AS MINIMAL AS POSSIBLE. IF POSSIBLE, SAW CUT OR USE ROTARY HAMMER FOR OPENING TO MINIMIZE DAMAGE TO STORM MANHOLE AND PIPE MUST BE CUT PARALLEL TO STORM MANHOLE. USE NONSHRINK GROUT AROUND PIPE TO SEAL BETWEEN PIPE AND STORM MANHOLE.
 - J. JOINTS BETWEEN SECTIONS TO BE EITHER MORTAR OR BITUMINOUS PIPE JOINT FILLER (ODOT 706.10)



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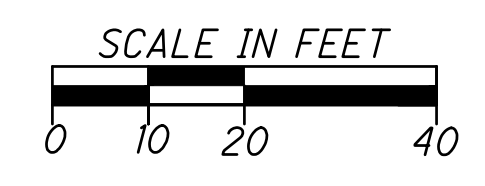
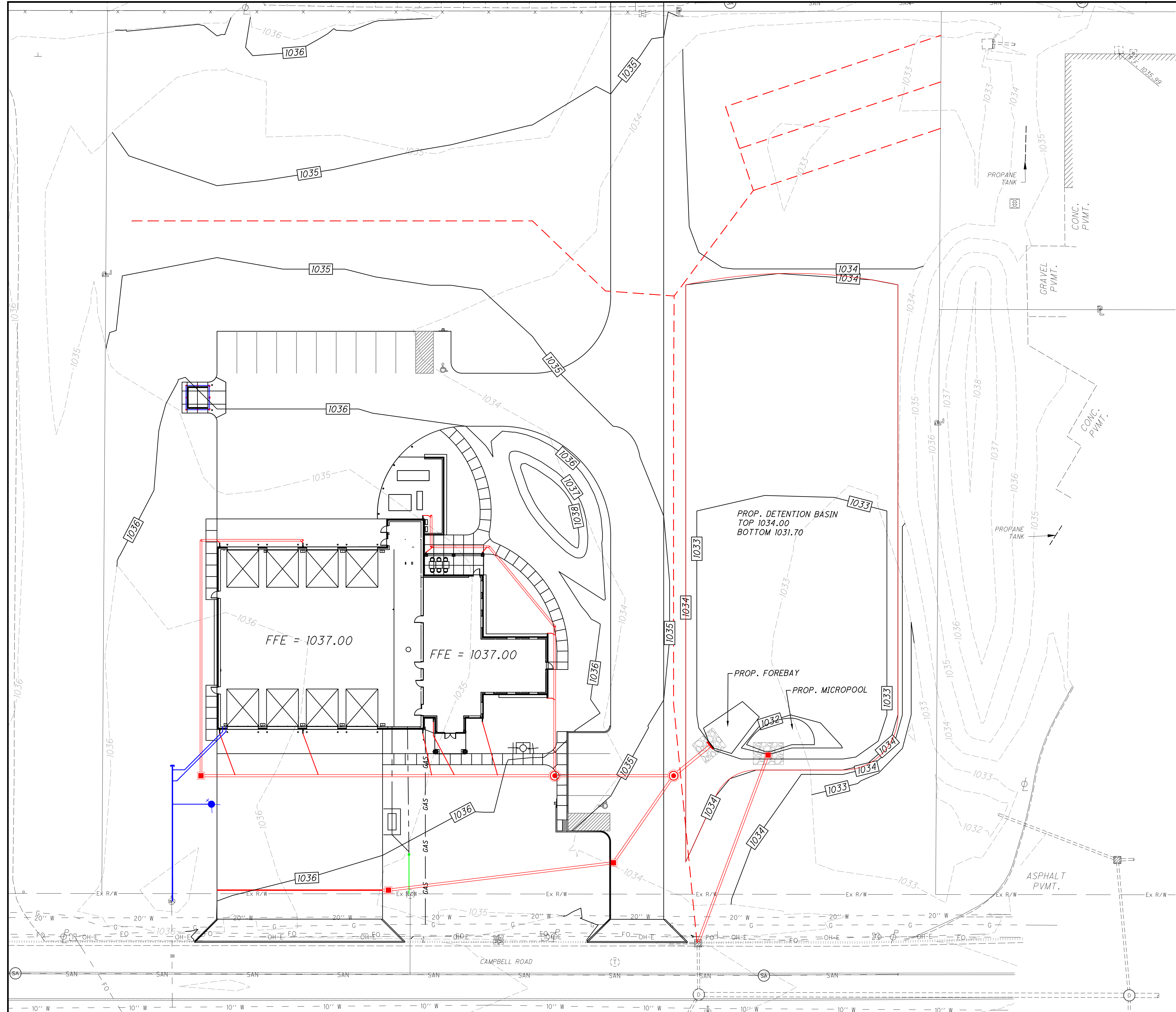
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GENERAL NOTES

C1.6



- LEGEND**
- 1030- EXISTING CONTOURS
 - 1030- PROPOSED CONTOURS
 - - - - PROPOSED STORM SEWER
 - PROPOSED EDGE PAVEMENT
 - PROPOSED CURB

NOTES:
 CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

GRADE TIE IN NOTE:
 CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER.

GRADING LIMITS NOTE:
 CONTRACTOR SHALL VERIFY THE FOLLOWING WITH THE CONSTRUCTION MANAGER AND OWNER'S REPRESENTATIVE:

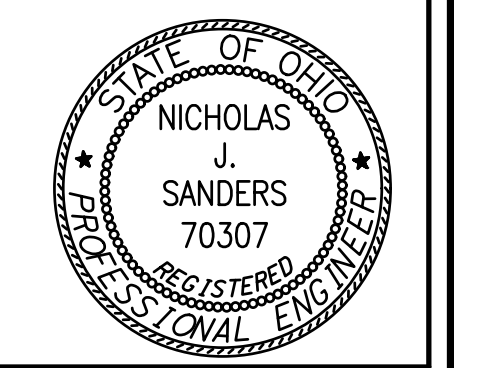
1. AREAS WHERE GRADING OPERATIONS ARE TO TAKE PLACE.
2. AREAS WHERE GRADING OPERATIONS ARE NOT TO TAKE PLACE.
3. GRADING LIMITS.
4. GRADING TIE-IN POINTS TO EXISTING GRADES.

BENCHMARK #1 ELEV: 1036.53
 NORTH BOLT TOP FLANGE OF FIRE HYDRANT SOUTH SIDE OF CAMPBELL RD DIRECTLY SOUTH OF Ex. STM.
 MH #5.

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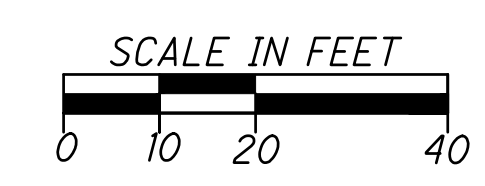
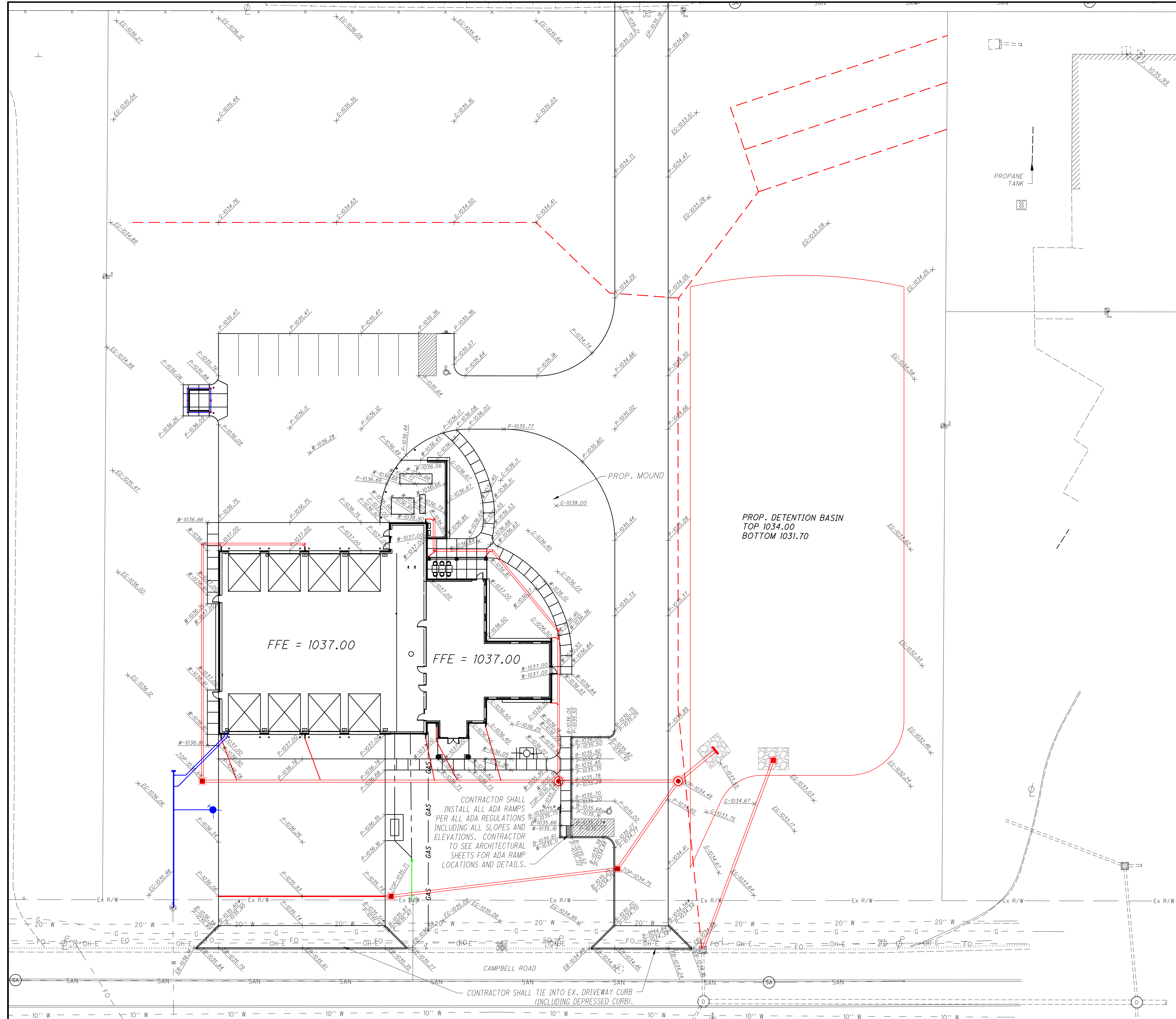
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GRADING PLAN	
C3.1	



LEGEND

EP = EXISTING PAVEMENT ELEVATION
 EB = EXISTING TOP OF CURB ELEVATION
 EG = EXISTING GROUND ELEVATION
 EFL = EXISTING FLOWLINE ELEVATION
 P = PROPOSED PAVEMENT ELEVATION
 B = PROPOSED TOP OF CURB ELEVATION
 W = PROPOSED SIDEWALK ELEVATION
 G = PROPOSED GROUND ELEVATION
 TOP = PROPOSED TOP OF GRATE ELEVATION
 B-XXX.XX* = ASTERISK INDICATES PROPOSED TOP OF CURB SPOT GRADE ELEVATION WITH CURB EXPOSURE THAT VARIES FROM THE STANDARD 0.50' (6") CURB

NOTE THAT IN ORDER TO FACILITATE PROPER ADA ACCESS THERE MAY BE AREAS WHERE IT IS INTENDED FOR THERE TO BE NO CURB EXPOSURE (PAVEMENT AND TOP OF CURB TO BE FLUSH). SEE SPOT ELEVATIONS ON THIS SHEET TO DETERMINE WHERE THESE AREAS ARE.

ADA RAMP NOTE:
 CONTRACTOR TO SEE ARCHITECTURAL SHEETS FOR ADA RAMP LOCATIONS AND DETAILS. CONTRACTOR SHALL INSTALL ALL ADA RAMP PER ALL ADA REGULATIONS. CONTRACTOR SHALL VERIFY THE FOLLOWING WITH THE CONSTRUCTION MANAGER AND/OR ARCHITECT AND/OR OWNER:

1. THE EXACT LOCATION, CONFIGURATION AND TYPE OF ALL PROPOSED ADA RAMP.
2. ALL AREAS WITHIN THE PROPOSED ADA RAMP WHERE THE CURBING IS TO BE FLUSH WITH PAVEMENT OR WALK TO PROVIDE PROPER ADA ACCESS.
3. THE AREAS WITHIN THE PROPOSED ADA CURB RAMP WHERE FLARES AND RAMP ARE TO BE INSTALLED WITH ADA COMPLIANT SLOPES TO PROVIDE PROPER ADA ACCESS.

NOTE:
 CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

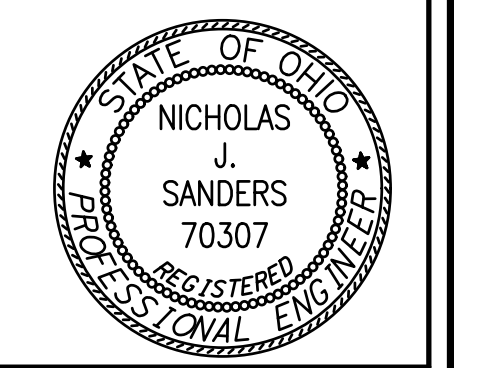
CONTRACTOR SHALL INSTALL ALL ADA RAMP PER ALL ADA REGULATIONS INCLUDING ALL SLOPES AND ELEVATIONS. CONTRACTOR TO SEE ARCHITECTURAL SHEETS FOR ADA RAMP LOCATIONS AND DETAILS.

BENCHMARK #1 ELEV: 1036.53
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PAVEMENT ELEVATION PLAN	
C3.2	

NEW CONSTRUCTION OF FIRE STATION 2 - SWPPP

CITY OF SIDNEY SHELBY COUNTY, OHIO INDEX OF SHEETS

SWPPP TITLE SHEET	C4.1
SWPPP GENERAL EROSION CONTROL NOTES AND DETAILS	C4.2-C4.4
SWPPP SITE EROSION CONTROL PLAN	C4.5

CONTACT INFORMATION

FACILITY SITE LOCATION: 2324 CAMPBELL ROAD, SIDNEY, OHIO 45365
OWNER SWPPP CONTACT: CITY OF SIDNEY, CHAD ARKENBERG, 937-498-8140, 201 W. POPLAR STREET, SIDNEY, OH 45365, CArkenberg@sidneyoh.com
SWPPP CONTRACTOR CONTACT - TBD

SWPPP AND INSPECTION REPORTS LOCATION

NOTE: THE SWPPP AND INSPECTION REPORTS WILL BE KEPT ON-SITE IN THE JOB TRAILER/FOREMAN'S PICK-UP.

WASTE DISPOSAL NOTE

CONTAINERS (e.g. DUMPSTERS, DRUMS) MUST BE AVAILABLE FOR THE DISPOSAL OF DEBRIS, TRASH, HAZARDOUS MATERIAL AND PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

CLEAN HARD FILL NOTE

NO CLEAN CONSTRUCTION WASTES SHALL BE DISPOSED OF INTO THE PROPERTY.

FUELING AND STAGING NOTE

CONTRACTOR'S STAGING AND STORAGE AREA WILL BE LOCATED WITHIN CONSTRUCTION LIMITS OF THE PROJECT. FUEL TANKS AND OTHER HAZARDOUS MATERIALS TO BE SAFELY STORED, PROTECTED, AND PROPERLY HANDLED BY CONTRACTOR. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STAGING/STORAGE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ANY WASTE MATERIALS.

SOIL STOCKPILE NOTE

CONTRACTOR'S SHALL LOCATE SOIL STOCKPILE AREAS WITHIN THE PROJECT AREA SO AS NOT TO BE WITHIN THE IMMEDIATE PROXIMITY OF ANY SURFACE WATERS OR STORM INLET STRUCTURES. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STOCKPILE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO INSTALLING FILTER FABRIC FENCE AROUND STOCKPILE, TEMPORARILY COVERING THE STOCKPILE AND/OR TEMPORARILY SEEDING THE STOCKPILE.

DEWATERING NOTE

PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR ANY OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, DITCH OR STREAM CORRIDORS, ANY WETLANDS OR STORM SEWERS IS PROHIBITED. ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SOIL PARTICLES PRIOR TO ITS RELEASE. IF AN AREA OF THE SITE OR TRENCH NEEDS DEWATERED, IT SHOULD BE PUMPED FROM A SUMP PIT WITH A SOCK FILTER OR OTHER TYPE OF FILTERING DEVICE ON THE DISCHARGE OF THE HOSE. DO NOT ALLOW DISCHARGED WATER TO PASS OVER DISTURBED GROUND. IF THE DISCHARGE WATER IS BEING PUMPED INTO A SEDIMENT POND THEN NO FILTER IS REQUIRED AT THE END OF THE HOSE. IF THE GROUNDWATER MUST BE LOWERED, THE WATER MAY BE FREELY DISCHARGED AS LONG AS THE WATER REMAINS CLEAN. DO NOT CO-MINGLE CLEAN GROUND WATER WITH SEDIMENT LADEN WATER OR DISCHARGE IT BY ALLOWING IT TO PASS OVER DISTURBED GROUND.

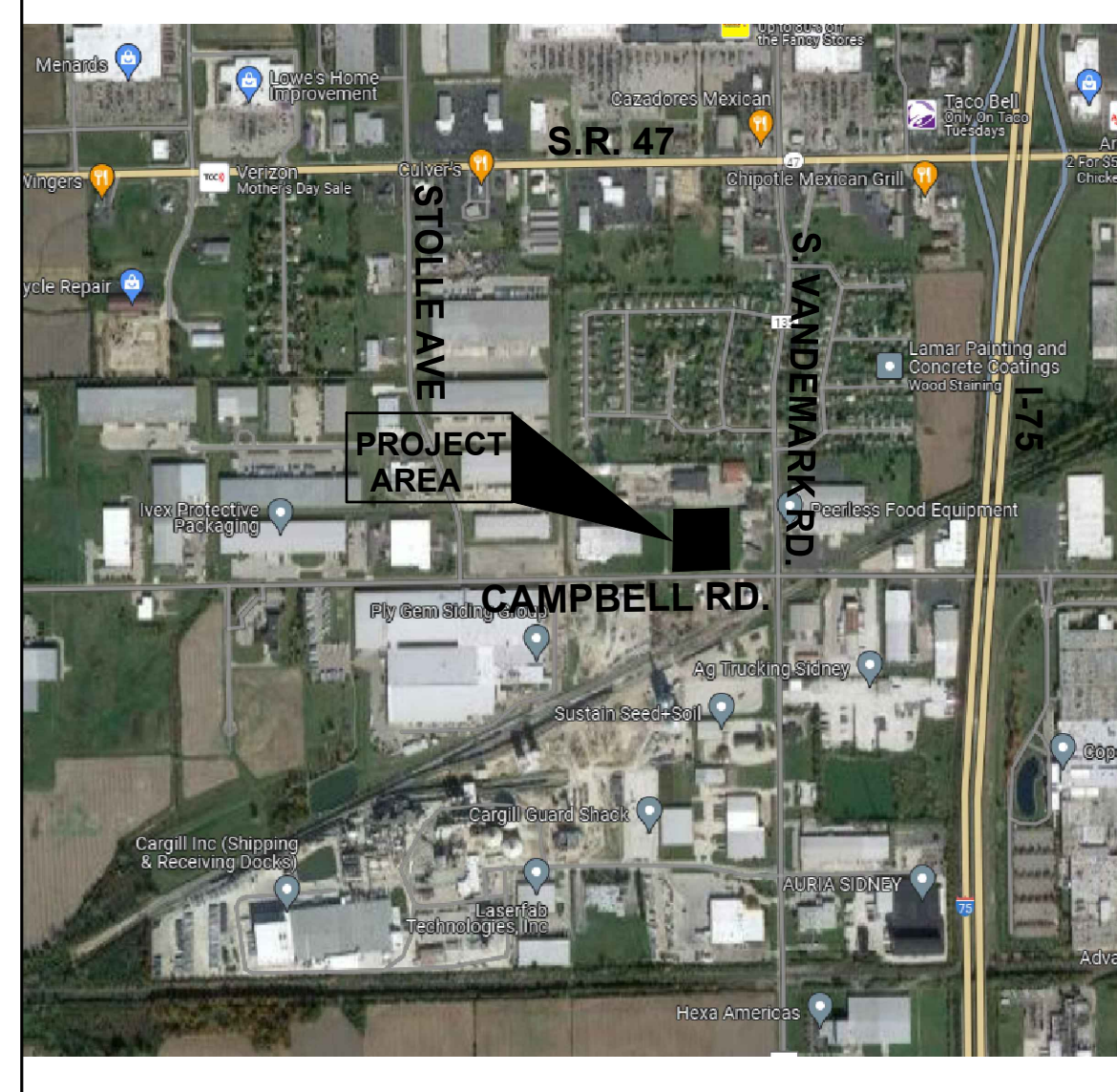
LOG/DOCUMENTATION SHEETS

AS PART OF THE SWPPP, THE CONTRACTOR SHALL MAINTAIN LOG/DOCUMENTATION SHEETS FOR THE FOLLOWING:
1) A SIGNATURE LOG CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWPPP AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWPPP.
2) A GRADING AND STABILIZATION LOG DOCUMENTING THE PROJECT'S GRADING AND STABILIZATION ACTIVITIES AND
3) A SWPPP AMENDMENT LOG DOCUMENTING CHANGES/AMENDMENTS TO THE SWPPP, WHICH OCCUR AFTER CONSTRUCTION ACTIVITIES COMMENCE.

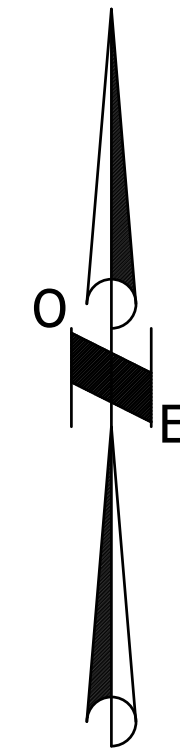


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VICINITY MAP



SWPPP NOTE

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THE CITY OF SIDNEY FOR THE PERFORMANCE OF THE NEW CONSTRUCTION OF FIRE STATION 2 IN SIDNEY, OHIO. ALL WORK SHALL BE PER AND COMPLY WITH THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHCO00006. THIS INCLUDES FILING A CO-PERMITTEE NOI FORM WITH THE OEPA FOR ALL OPERATORS ENGAGED IN SITE WORK ON THE SITE. CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, INSTALLATION, MAINTENANCE AND REQUIREMENTS OF ODOT'S CURRENT SUPPLEMENTAL SPECIFICATION 832 "TEMPORARY SEDIMENT AND EROSION CONTROL." COMPLIANCE WITH SUPPLEMENTAL SPECIFICATION 832 SHALL INCLUDE THE STANDARD CONSTRUCTION DRAWING REFERENCES LISTED IN SECTION 832.03, BUT SHALL NOT INCLUDE SECTION 832.11 "INSPECTIONS AND SWPPP UPDATES." ALL INSPECTIONS AND SWPPP UPDATES SHALL BE PER THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHCO00006. ALL WORK SHALL ALSO BE PER THE CURRENT ODOT CMS 107.19. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH LOCAL STORMWATER AND EROSION CONTROL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH AND INSTALLING ALL ITEMS NOTED AND AS REQUIRED BY OEPA AND LOCAL AUTHORITIES FOR MEETING ALL STORM WATER POLLUTION PREVENTION REQUIREMENTS. THE CITY OF SIDNEY, OHIO AND THE SELECTED CONTRACTOR SHALL BE THE RESPONSIBLE PARTY IN CHARGE OF THE SWPPP AND ASSOCIATED BMP'S.

SITE DATA

LOCATION SOIL TYPES:-----BLOUNT SILT LOAM
EARTH DISTURBED AREA-----3.11 ACRES
PROPOSED IMPERVIOUS AREA ADDED:-----1.07 ACRES
PRE-CONSTRUCTION RUNOFF COEFFICIENT:-----0.30
POST-CONSTRUCTION RUNOFF COEFFICIENT:-----0.40
DESCRIPTION OF PRIOR LAND USE:-----EXISTING GRASS LOT
EXISTING QUALITY OF DISCHARGE FROM SITE:-----UNTREATED GRASS RUNOFF
IMMEDIATE RECEIVING WATERS:-----ON-SITE DETENTION BASIN
SUBSEQUENT RECEIVING WATERS:-----CITY STORM SEWER
LATITUDE 40.280916° LONGITUDE -84.189274°

WATERS EDGE NOTE

ALL MATERIAL AND EQUIPMENT STAGING OR STORAGE AREAS, DEWATERING AREAS, CONCRETE TRUCK WASH OUT AREAS, CONSTRUCTION ACCESS LOCATIONS, AND VEHICLE FUELING AND REFUELING LOCATIONS MUST BE LOCATED A MINIMUM OF 100' FROM ANY CREEK/RIVER/STREAM WATERS EDGE.

CLEAN STORM SYSTEM NOTE

IMMEDIATELY PRIOR TO FINAL COMPLETION OF THE PROJECT, CONTRACTOR SHALL ENSURE THE ENTIRE STORM SYSTEM, INCLUDING BUT NOT LIMITED TO, THE DETENTION/RETENTION BASIN(S), CATCH BASINS, MANHOLES, PIPING, UNDERDRAINS AND UNDERDRAIN TRENCHES ARE FREE FROM SEDIMENTATION AND OTHER POLLUTANTS AND FOREIGN MATERIALS AND ARE TO BE CLEANED AS NEEDED TO ENSURE MAXIMUM STORMWATER QUALITY AND FULL FUNCTIONALITY.

OFFSITE CONSTRUCTION ACTIVITIES

IT IS EXPECTED ALL CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SITE.

SPILL REPORTING REQUIREMENTS

IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS) OF PETROLEUM WASTE, SPECIAL HANDING PROCEDURES MUST BE USED. IN THE EVENT OF A LARGE RELEASE (25 GALLONS OR MORE) OF PETROLEUM WASTE, YOU MUST CONTACT THE OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

VEHICLE FUELING

VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED VIA A SMALL REFUEL TANK ON THE BACK OF A PICK-UP TRUCK.

OPEN BURNING NOTE

OPEN BURNING IS NOT PERMITTED IN THE CORPORATION LIMIT.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION A NEW FIRE STATION BUILDING AND ASSOCIATED DRIVES AND PARKING. SITE WORK TO INCLUDE STORM SEWER, SANITARY SEWER, WATER, SITE GRADING, PAVEMENT WORK AND BUILDING CONSTRUCTION.

PROJECT WORK CONSTRUCTION DATES

START: JUNE 2021
ESTIMATED COMPLETION: JUNE 2022

EROSION CONTROL NOTES

- INSTALL AND MAINTAIN FILTER FABRIC FENCE AND INLET PROTECTION WHERE SHOWN AND AS NEEDED TO MINIMIZE SEDIMENT LADEN WATER FROM LEAVING THE SITE OR ENTERING ANY STORM SYSTEM, ADJACENT DITCHES, STREAMS ETC. IF STORMWATER RUNOFF CONTAINING SEDIMENTS IS FOUND TO BE LEAVING THE PROJECT SITE IN AN AREA WHERE NO BMP/CONTROL MEASURE IS SHOWN OR IN PLACE, CONTRACTOR SHALL IMMEDIATELY INSTALL THE APPROPRIATE BMP/CONTROL MEASURE AS NEEDED TO REMEDY THE SITUATION (TYP. INLET PROTECTION, FILTER FABRIC FENCE, ETC.).
- INSTALL INLET PROTECTION ON ALL STORM INLET STRUCTURES (YARD DRAINS, CATCH BASINS, MANHOLES WITH GRATED LIDS, ETC.) AND TO ANY EXISTING STORM STRUCTURES WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE AS NEEDED. INLET PROTECTION MAY CONSIST OF DEVICES SUCH AS SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, FLEXSTORM INLET FILTERS, SEDIMENT FENCE OR OTHER DEVICES WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE.
- CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY CLEANING UP ANY MUD, DIRT AND DEBRIS WHICH IS TRACKED OR SPILLED ONTO THE ROADWAYS.
- PRE CONSTRUCTION - CONTRACTOR IS RESPONSIBLE TO INSTALL A CONSTRUCTION ENTRANCE AS NEEDED TO MINIMIZE ANY MUD, DIRT AND DEBRIS TRACKED ONTO THE ROADWAYS.
- DURING CONSTRUCTION - THE CONTRACTOR MUST MAINTAIN EROSION CONTROL UNTIL AREA IS STABILIZED INCLUDING TEMPORARY SEEDING AS NEEDED. CONTRACTOR SHALL TEMPORARILY SEED ALL CRITICAL EXPOSED SLOPES TO MINIMIZE SEDIMENT RUNOFF.
- FINAL/POST CONSTRUCTION - CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. CONTRACTOR SHALL ENSURE GRASS IS PERMANENTLY AND PROPERLY ESTABLISHED IN ALL AREAS WHERE GRASS IS SPECIFIED. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING SEDIMENT FENCE, SHALL REMAIN IN PLACE UNTIL GRASS IS IN PLACE AND SITE IS STABILIZED. ONCE SITE IS STABILIZED AND ALL CONSTRUCTION IS COMPLETE, ALL SEDIMENT FENCE, INLET PROTECTION AND ANY OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE.

BMP NOTES

FOR ALL BMP'S INSTALLED, ENSURE THAT THE PONDING OF WATER BEHIND THE BMP WILL NOT DAMAGE PROPERTY OR POSE A SAFETY THREAT. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL MEASURE/BMP HAS BEEN USED INAPPROPRIATELY, THE CONTRACTOR MUST REPLACE AND ADJUST THE CONTROL/BMP TO MEET SITE CONDITIONS AS REQUIRED. THE CONTRACTOR SHALL ADJUST THE SWPPP AND ITS CONTROLS/BMPS AND THEIR QUANTITIES TO MEET FIELD CONDITIONS AND THE OHIO EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITIES GENERAL PERMIT.

MAINTENANCE NOTE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP-SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE SWP3 SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

SWPPP AND INSPECTION AVAILABILITY AND UPDATES NOTE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE SWPPP AND INSPECTION REPORTS ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM AND DOCUMENT ALL REQUIRED SWPPP INSPECTIONS AND ALL UPDATES AND AMENDMENTS TO THE SWPPP.

DOCUMENTATION AND GOVERNMENT INSPECTION NOTE

CONTRACTOR(S) SHALL PROVIDE THE OWNER'S REPRESENTATIVE A WRITTEN COPY OF THEIR CO-PERMITTEE APPLICATION AND ANY OTHER DOCUMENTATION THE CONTRACTOR(S) MAY SEND OR RECEIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITIES.

IF AN INSPECTOR OR REPRESENTATIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITY IS ON-SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND NOTIFY THE OWNER'S REPRESENTATIVE.

CITY OF SIDNEY EROSION CONTROL NOTES

A. PRECONSTRUCTION NOTES

GRADING OPERATIONS SHALL NOT BEGIN UNTIL THE CITY APPROVES EROSION CONTROL. CONTRACTOR IS RESPONSIBLE TO INSTALL AND MAINTAIN TIRE SCRUBBERS AT EACH CONSTRUCTION SITE ACCESS, AND TO CLEAN UP MUD AND DEBRIS TRACKED ONTO THE ROADWAY WITHIN 24 HOURS OR SOONER.

B. DURING CONSTRUCTION MAINTENANCE NOTES

THE CONTRACTOR MUST MAINTAIN EROSION CONTROL MEASURES UNTIL AREA IS STABILIZED.

C. POST CONSTRUCTION NOTE

CONTRACTOR SHALL SEED AND MULCH THE ENTIRE SITE WITHIN 30 DAYS OF FINAL GRADING.

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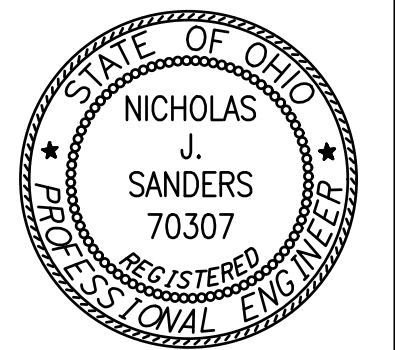


NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

SIDNEY, OH 45365

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REVISIONS	
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C4.1

IMPLEMENTATION SCHEDULE (EROSION CONSTRUCTION SEQUENCE)

THE CONTRACTOR OR ITS APPOINTED REPRESENTATIVES WILL ASSUME RESPONSIBILITY FOR INSTALLATION, INSPECTION AND MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION. THE INSTALLATION OF THE SOIL EROSION CONTROL MEASURES WILL BE COMPLETED, AS FOLLOWS:

- A. PRIOR TO ANY GRADING OR EARTHWORK:**
- A-1. SILT FENCE AND INLET PROTECTION (ON EX. STORM STRUCTURES) TO BE INSTALLED AS SHOWN ON SWPPP
 - A-2. INSTALL CONSTRUCTION ENTRANCE(S) IF NEEDED AS SHOWN ON SWPPP. INSTALLATION OF ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES, E.G. ROCK CHECK DAMS, CONCRETE WASHOUT PIT, SEDIMENT BASIN, ETC.
 - B. PERFORM FINAL GRADING AND INSTALL UTILITIES, BUILDINGS, PAVEMENT:**
 - B-1. CLEAR AND GRUB AREA AS NEEDED
 - B-2. PERFORM SITE GRADING, INSTALL BUILDING(S)
 - B-3. INSTALL SANITARY, STORM, WATER LINES, OTHER UTILITIES, GRAVEL BASE, AND CURB AND GUTTER, AS PER PLAN(S). INSTALL INLET PROTECTION ON ALL PROPOSED STORM INLET STRUCTURES AS INDICATED ON THE PLANS AS SOON AS THEY ARE INSTALLED.
 - B-4. PERFORM TEMPORARY SEEDING AS NEEDED ON ANY DISTURBED AREAS PER THE TIME REQUIREMENTS FOR TEMPORARY SEEDING SPECIFIED ON THIS DRAWING.
 - B-5. INSTALL PAVEMENT.
 - C. PERFORM FINAL GRADING:**
 - C-1. PLACE TOPSOIL AND PERFORM FINAL RAKING AND GRADING ON ALL DISTURBED AREAS.
 - C-2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED (SEEDED AND/OR MULCHED).
 - C-3. CLEAN UP SITE, AND ONCE SITE HAS REACHED FINAL STABILIZATION REMOVE ALL TEMPORARY BMP'S.
- NOTES:** A) CARE WILL BE TAKEN NOT TO DISTURB ANY EXISTING NATURAL VEGETATION NOT INVOLVED IN THE CONSTRUCTION PROCESS, WHENEVER POSSIBLE. B) TIMELY INSPECTIONS OF THE EROSION CONTROL MEASURES WILL BE MADE, BY THE CONTRACTOR, EVERY 7 DAYS, AND/OR AFTER ANY RAINFALL OF AT LEAST 1/2" IN A 24-HOUR PERIOD. REPORTS MUST BE KEPT ON-SITE AND SUPPLIED TO THE GOVERNING AUTHORITY IF REQUESTED.

INSPECTION SCHEDULE

A. THE SITE WILL BE INSPECTED PER OHIO EPA PERMIT NO. OHCO00006:

PART III.G.2.i
INSPECTIONS: THE PERMITTEE SHALL ASSIGN "QUALIFIED INSPECTION PERSONNEL" TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN PART III.G.1 OF THE ORDINANCES PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. AT A MINIMUM, PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED:
 * AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24-HOUR PERIOD BY THE END OF THE NEXT CALENDAR DAY, AND
 * ONCE EVERY SEVEN CALENDAR DAYS.

THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH FOR DORMANT SITES IF:
 * THE ENTIRE SITE IS TEMPORARILY STABILIZED OR
 * RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR EXTENDED PERIODS OF TIME (E.G. SITE IS COVERED WITH SNOW, ICE, OR THE GROUND IS FROZEN).

THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3. ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE SITE.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- i. THE INSPECTION DATE;
- ii. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- iii. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- iv. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
- v. LOCATIONS OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- vi. LOCATIONS OF BMPs THAT NEED TO BE MAINTAINED;
- vii. LOCATIONS OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- viii. LOCATIONS WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- ix. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.

THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATES OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART I.G. OF THIS PERMIT.

i. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.

ii. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

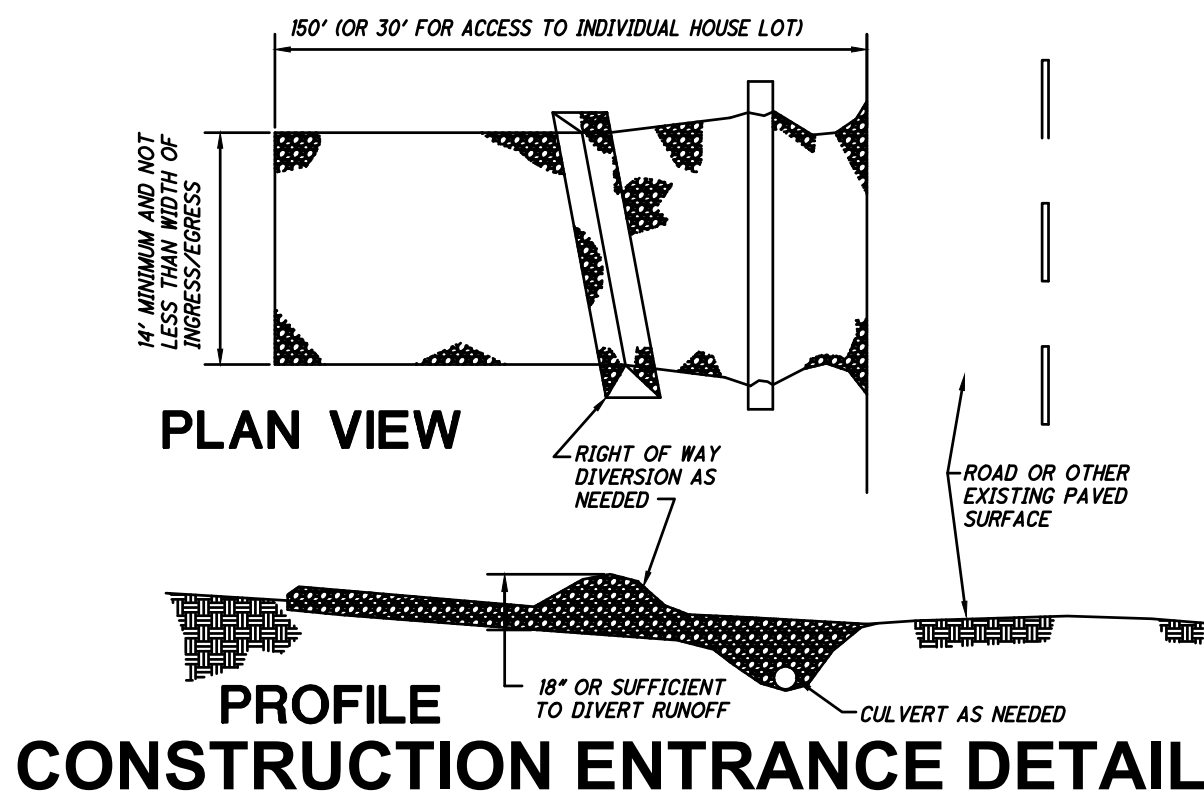
iii. WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED: IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS OF THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.

- B. VEGETATIVE PLANTINGS - SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL.
- C. REPAIRS - ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES, OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.
- D. MOWING - DRAINAGE WAYS, DITCHES, AND OTHER AREAS THAT SUPPORT A DESIGNED FLOW OF WATER WILL BE MOWED REGULARLY TO MAINTAIN THAT FLOW.
- E. FERTILIZATION - SEEDED AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED AS NECESSARY.

CONSTRUCTION ENTRANCE

- A. STONE SIZE - 2" STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- B. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN 150' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
- C. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6" THICK.
- D. WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- E. BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MAXIMUM BURST STRENGTH OF AT LEAST 190 LBS.
- F. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES IF DRIVE IS PLACED ACROSS A DITCH.
- G. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES IF DRIVE IS PLACED ON A SLOPE.
- H. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- I. CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFFSITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- J. CONSTRUCTION ENTRANCES ARE INSTALLED TO MINIMIZE OFFSITE TRACKING OF SEDIMENTS. A STONE ACCESS DRIVE SHOULD BE INSTALLED AT EVERY POINT WHERE VEHICLES ENTER OR EXIT THE SITE. EVERY INDIVIDUAL LOT SHOULD ALSO HAVE ITS OWN DRIVE ONCE CONSTRUCTION ON THE LOT BEGINS.

NOTE: ALTERNATIVE STABILIZATION METHODS FOR CONSTRUCTION ENTRANCE/EXIT SUCH AS MANUFACTURED STEEL PLATES, GRID PLATES, ETC. OR STEEL PIPES/GRATINGS WILL ALSO BE CONSIDERED BUT WILL REQUIRE WRITTEN APPROVAL FROM THE OWNER PRIOR TO THE USE OF SUCH ALTERNATIVE METHODS AS ON-SITE CONSTRUCTION ENTRANCES/EXIT. ANY PROPOSED ALTERNATIVE METHODS SHALL BE SHOWN TO EFFECTIVELY REMOVE MUD AND DEBRIS FROM VEHICLE WHEELS PRIOR TO EXITING THE SITE.



NON-SEDIMENT POLLUTION CONTROL

A. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

- DO:
 * PREVENT SPILLS
 * USE PRODUCTS UP
 * FOLLOW LABEL DIRECTIONS FOR DISPOSAL
 * REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
 * RECYCLE WASTE WHENEVER POSSIBLE

DON'T:
 * DON'T POUR INTO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND
 * DON'T POUR DOWN THE SINK, FLOOR DRAIN, OR SEPTIC TANKS
 * DON'T BURY CHEMICALS OR CONTAINERS
 * DON'T BURN CHEMICALS OR CONTAINERS
 * DON'T MIX CHEMICALS TOGETHER

B. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM, AND ANY HAZARDOUS MATERIALS TO BE USED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

C. NO WASTE MATERIALS SHALL BE BURIED ON SITE. SITE PERSONNEL, INCLUDING SUBCONTRACTORS, SHALL BE NOTIFIED THAT NO CONSTRUCTION-RELATED MATERIALS ARE TO BE BURIED ON SITE.

D. MIXING, PUMPING, TRANSFERRING, OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.

E. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.

F. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER.

G. IF HAZARDOUS SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. CONTACT OHIO EPA (1-800-282-9378).

H. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE.

I. STREETS NEED TO BE SWEEP AS OFTEN AS NECESSARY TO KEEP THEM CLEAN AND FREE FROM SEDIMENT. SEDIMENT TO BE SWEEP BACK ONTO THE LOT - NOT DOWN THE STORM SEWER.

J. STOCKPILES OF SOIL AND OTHER MATERIALS SHALL BE STORED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, AND SHALL HAVE EROSION CONTROL MATERIALS PLACED AROUND THEM.

K. ALL STREAM CROSSINGS SHALL BE CONSTRUCTED ENTIRELY OF NON-ERODIBLE MATERIAL.

PROCESS WASTEWATER/LEACHATE MANAGEMENT NOTE

ALL PROCESS WASTEWATERS (e.g. EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, AND CONCRETE WASH-OUTS) MUST BE COLLECTED AND DISPOSED OF PROPERLY (e.g. TO A PUBLICLY-OWNED TREATMENT WORKS). THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE DISCHARGE OF STORM WATER AND CERTAIN UNCONTAMINATED NON-STORM WATERS. THE DISCHARGE OF NON-STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS.

HANDLING OF TOXIC OR HAZARDOUS MATERIALS NOTE

NO SOLID, SANITARY, OR TOXIC WASTE IS TO BE DISPOSED OF ON THE PROJECT SITE. RECYCLING OF USED OR UNUSED HAZARDOUS MATERIALS SHALL NOT OCCUR ON SITE EITHER. AREAS DESIGNATED FOR CEMENT TRUCK WASHOUTS, AND VEHICLE FUELING SHALL NOT TAKE PLACE ON PARKING LOT BASE.

CONSTRUCTION CHEMICAL COMPOUNDS NOTE

NO MIXING OR STORAGE OF CHEMICAL COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE ARE PERMITTED TO TAKE PLACE ON-SITE. ALL MIXING SHALL TAKE PLACE BEFORE ENTERING THE SITE.

CONSTRUCTION & DEMOLITION DEBRIS NOTE

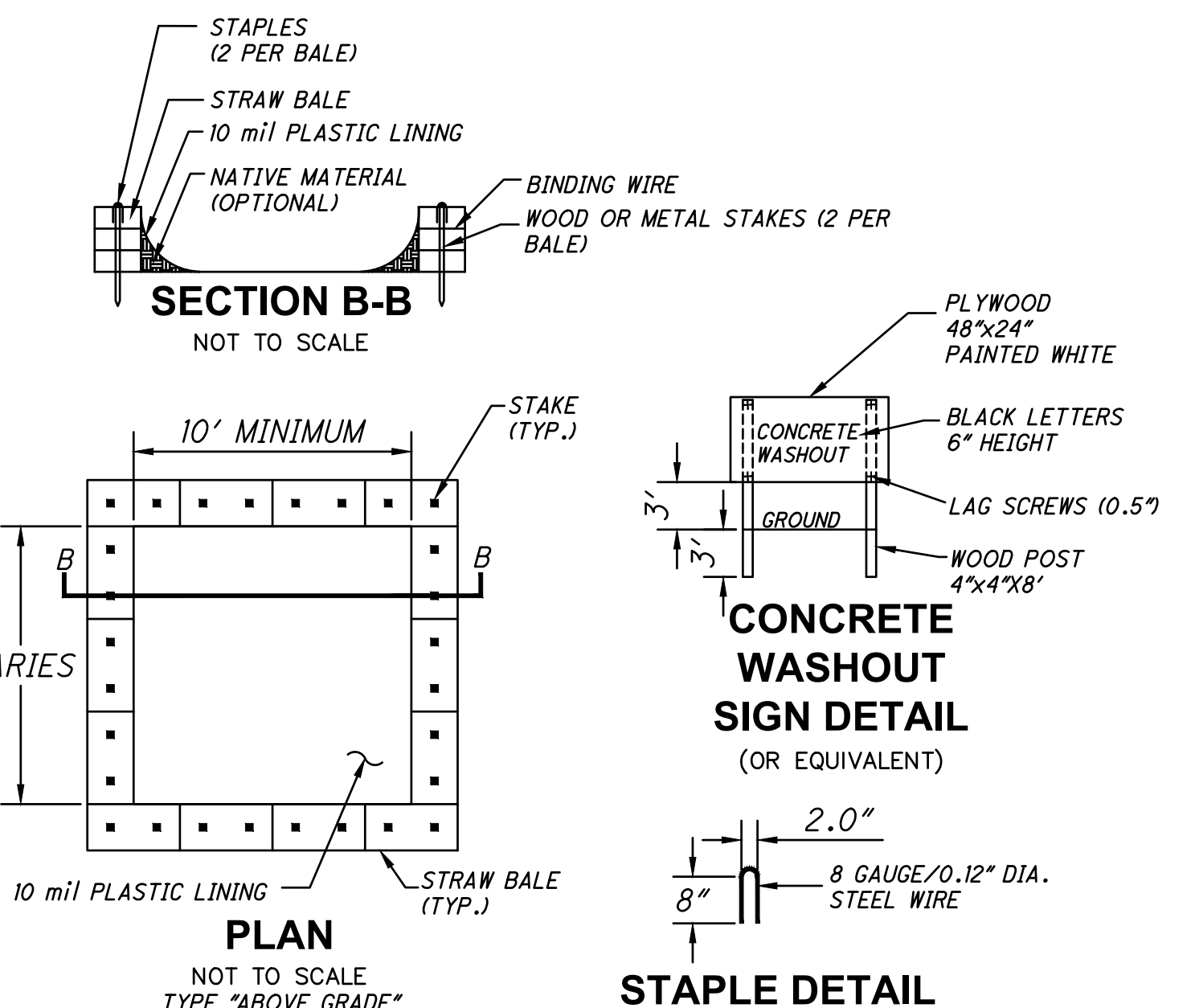
ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3746. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3746-20).

CONTAMINATED SOILS NOTE

SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE HANDLED AND DISPOSED OF PROPERLY. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED OF IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF). IF CONTAMINATION APPEARS TO OCCUR, TARPS ARE TO BE USED TO PREVENT STORM WATER FROM COMING INTO CONTACT WITH THE MATERIAL.

CONCRETE WASHOUT NOTE

CONCRETE WASHOUT OPERATIONS SHALL TAKE PLACE WITHIN THE PROPOSED PROJECT AREA UTILIZING THE CONTRACTOR'S PORTABLE CONCRETE WASHOUT CONTAINER OR WITHIN A BERMED/CONTAINED AREA. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE WASHOUT MATERIAL DOES NOT LEAVE THE WASHOUT AREA OR ENTER THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL LEFTOVER WASHOUT MATERIAL.



CONCRETE WASHOUT DETAIL

DUST CONTROL

DUST CONTROL SHALL BE PROVIDED AS NEEDED TO PREVENT SEDIMENT FROM BECOMING AIRBORNE. MEASURES SHALL INCLUDE WATERING VIA A WATER TRUCK OR OTHER WATERING DEVICE AS NEEDED TO REDUCE AND/OR ELIMINATE AIRBORNE DUST CREATED BY CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES.

CONSTRUCTION OF A FILTER BARRIER (SILT FENCE)

- A. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- B. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- C. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- D. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

E. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UP-SLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

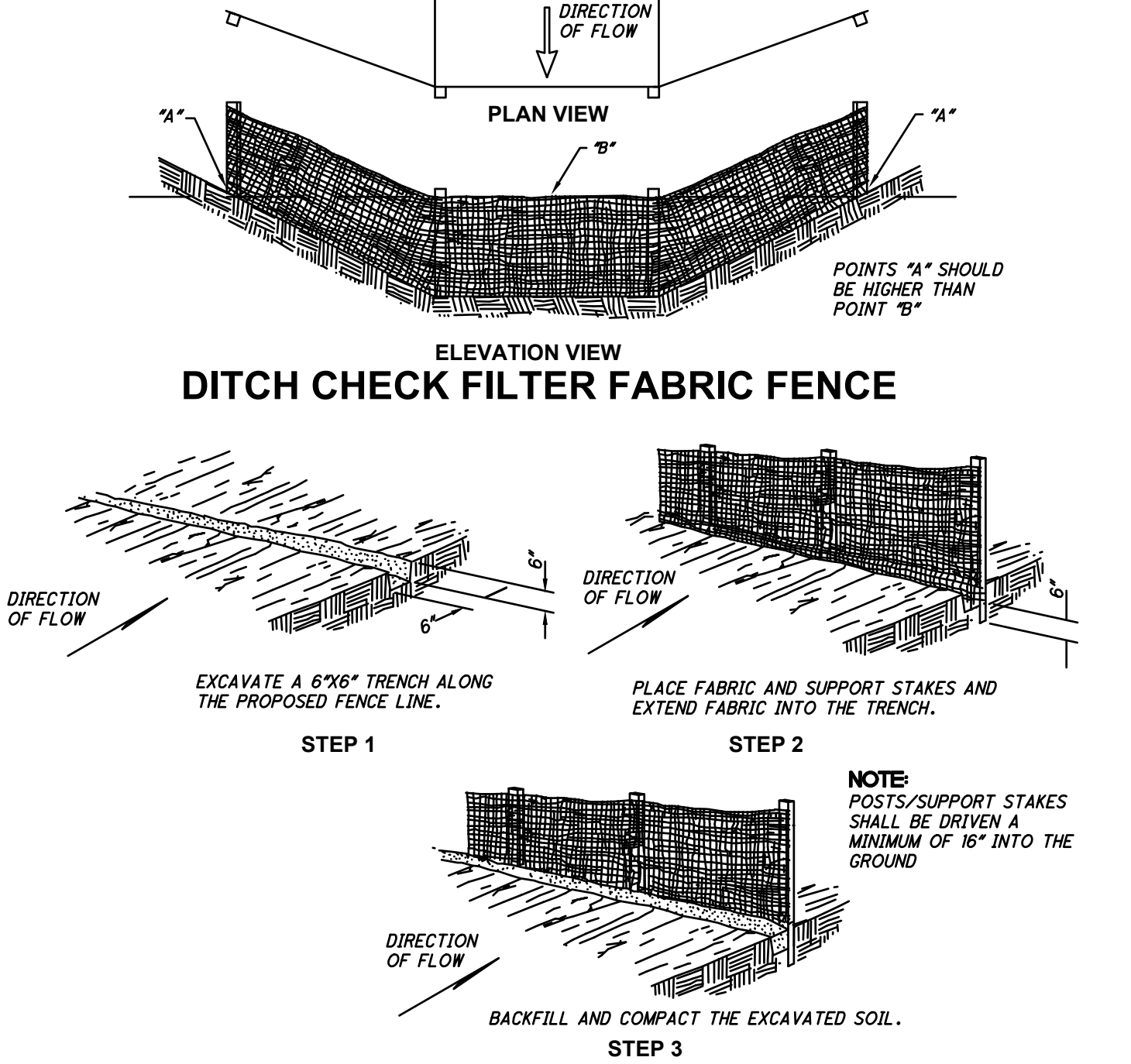
F. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE.

G. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

H. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH IS BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

I. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

J. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. ALL THE GAPS AND TEARS IN THE FENCE MUST BE ELIMINATED AND REPAIRED. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.



DITCH CHECK FILTER FABRIC FENCE FILTER FABRIC FENCE DETAIL

CRITERIA FOR SILT FENCE MATERIAL

- A. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 48" LONG. WOOD POSTS WILL BE 2"-BY-2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 5'. POSTS/SUPPORT STAKES SHALL BE DRIVEN A MINIMUM OF 16" INTO THE GROUND.
- B. SILT FENCE FABRIC SHALL CONFORM TO THE AASHTO SILT FENCE SPECIFICATION 100X AND SHALL HAVE A MINIMUM 100# GRAB TENSILE. SILT FENCE SHALL ALSO CONFORM TO THE MOST RECENT ODOT STANDARD FOR SEDIMENT/SILT FENCE (TABLE 712.09-1)
- C. SILT FENCE SHALL BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PERMANENT STABILIZATION

ALL AREAS AT FINAL GRADE MUST BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. THIS IS USUALLY ACCOMPLISHED BY USING SEED AND MULCH, BUT SPECIAL MEASURES ARE SOMETIMES REQUIRED. THIS IS PARTICULARLY TRUE IN DRAINAGE DITCHES/SWALES, LOW AREAS, DETENTION POND BOTTOMS AND SIDES OR ON STEEP SLOPES. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, THE INSTALLATION OF EROSION CONTROL BLANKETS AND/OR MATTING, ADDITION OF TOPSOIL, OR ROCK RIP-RAP. CONTRACTOR SHALL UTILIZE THESE AND ANY OTHER SPECIAL MEASURES AS NEEDED TO PERMANENTLY STABILIZE THE SITE. PERMANENT SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 30. DORMANT SEEDING CAN BE DONE FROM NOVEMBER 20 TO MARCH 15. AT ALL OTHER TIMES OF THE YEAR, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL A PERMANENT SEEDING CAN BE APPLIED.

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

SOILS EXPOSED NOTE

CONTRACTOR SHALL PLAN AND IMPLEMENT CONSTRUCTION AND GRADING ACTIVITIES TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITIES.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	L.B./1000 SQ. FT.	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	PERENNIAL RYEGRASS	1	40 LBS.
	TALL FESCUE	1	40 LBS.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	WHEAT	1	2 BUSHEL
	TALL FESCUE	1	40 LBS.
NOVEMBER 1 TO SPRING SEEDING	ANNUAL RYEGRASS	1	40 LBS.
	PERENNIAL RYEGRASS	1	40 LBS.
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

SPECIFICATIONS FOR TEMPORARY SEEDING

A. TO MINIMIZE COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLACE FOR AS LONG AS POSSIBLE. ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT 14 DAYS.

B. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

C. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

D. SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

E. SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY PLACED USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

A. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

- B. MATERIALS:
 - * STRAW - IF STRAW IS USED, IT SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH. DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LBS. BALES OF STRAW IN EACH SECTION.
 - * HYDROSEEDERS - IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB./AC. OR 46 LBS./1,000 SQ. FT.
 - * OTHER - OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
 - * STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
 - MECHANICAL - A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED, BUT GENERALLY, BE LEFT LONGER THAN 6"
 - MULCH NETTINGS - NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUN OFF AND ON CRITICAL SLOPES.
 - SYNTHETIC BINDERS - SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES
 - WOOD CELLULOSE FIBER - WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS./1,000 GAL.

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND NOT AT FINAL GRADE.	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.)	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER
WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.	

PERMANENT STABILIZATION

ODOT ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING. ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.

THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

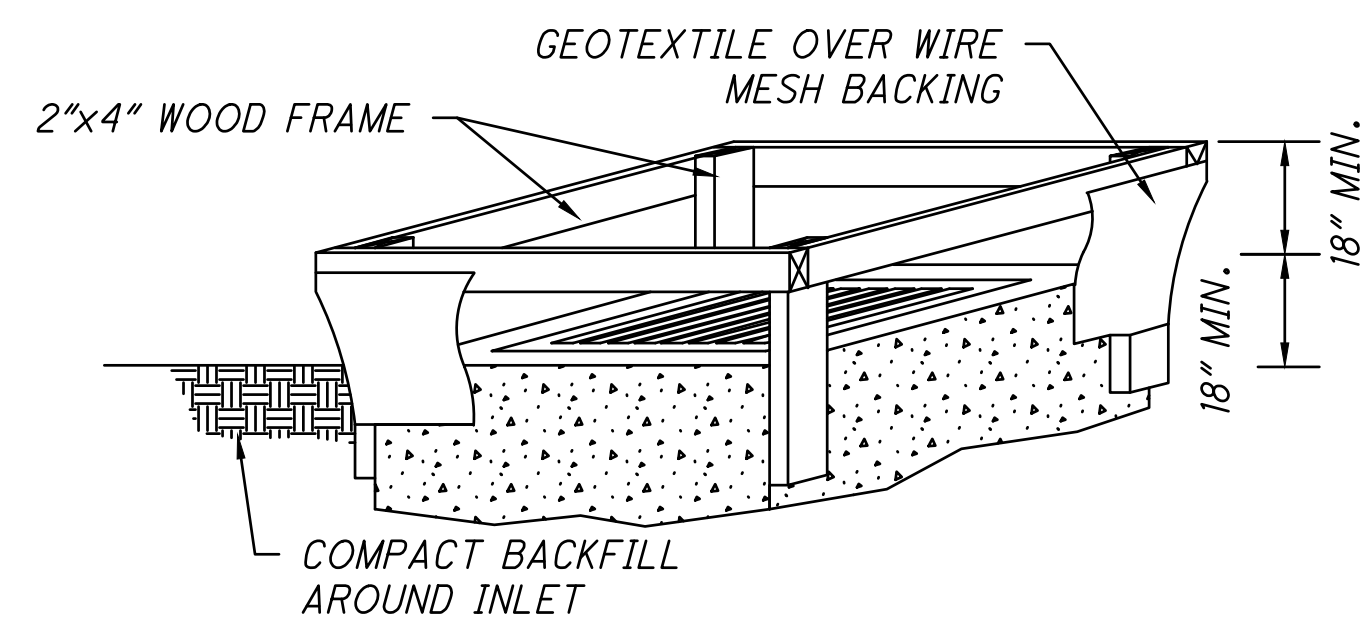
THE ABOVE SHALL BE INCIDENTAL TO THE PROJECT.

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INLET PROTECTION FOR STORM STRUCTURES W/ GRATE

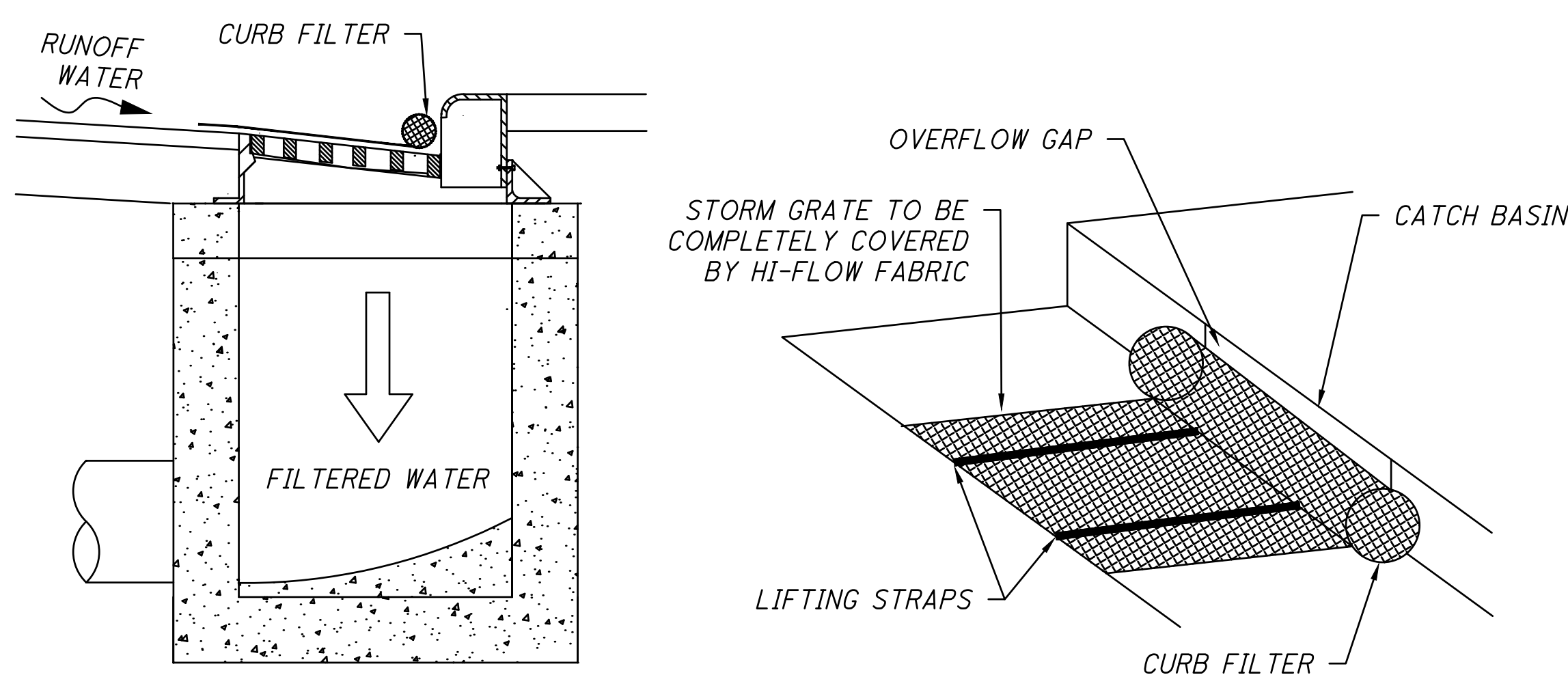
INLET PROTECTION MAY CONSIST OF SEDIMENT FENCE AND/OR DEVICES SUCH AS FLEX STORM INLET FILTERS, SEDGAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, OR OTHER DEVICES (ALTERNATE PRODUCTS WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED) WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE. INSTALL INLET PROTECTION ON ALL PROPOSED YARD DRAINS, CATCH BASINS AND MANHOLES WITH GRATED LIDS AND TO ALL EXISTING STORM STRUCTURES WITH GRATED LIDS WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.



NOTES

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18".
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" BY 4" CONSTRUCTION GRADE LUMBER. THE 2" BY 4" POST SHALL BE DRIVEN 1' INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2" BY 4" FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROAD, IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAY ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION, AND IF RUNOFF BY PASSING THE INLET WILL NOT FLOW TO A SETTING POND, THE TOP OF EARTH DIKES SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

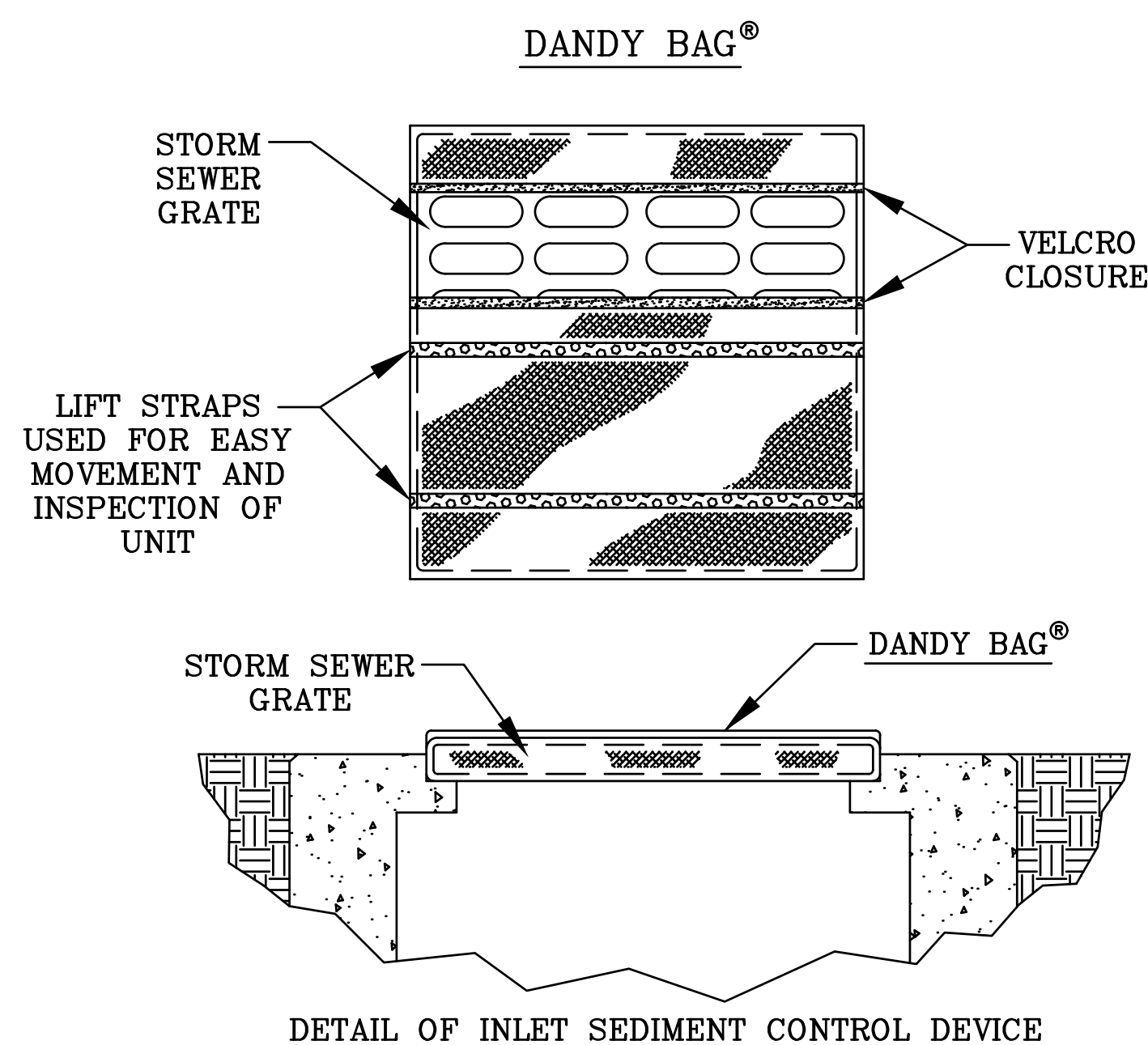
INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS



NOTES

- DANDY CURB BAG, SEDIGUARDS, OR ALTERNATE PRODUCT WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED MAY BE USED.
- REMOVE SEDIMENT FROM CURB INLET PROTECTION BEFORE IT HINDERS THE FILTERING CAPACITY.
 - DANDY CURB BAG: LIFT GRATE AND REMOVE DANDY BAG, CLEAN ACCUMULATED SEDIMENT AND REPLACE BAG AS REQUIRED BY MANUFACTURER.
 - SEDIGUARD: CLEAN SEDIGUARD ONCE IT IS DRY WITH A STIFF BROOM AFTER EVERY RAIN.
 - ALTERNATE PRODUCTS: CLEAN AS REQUIRED PER MANUFACTURER'S RECCOMENDATIONS
- INLET PROTECTION SHOULD NEVER INTERFERE WITH SAFETY OF ACTIVE TRAFFIC.

CURB INLET SEDIMENT FILTER DETAIL

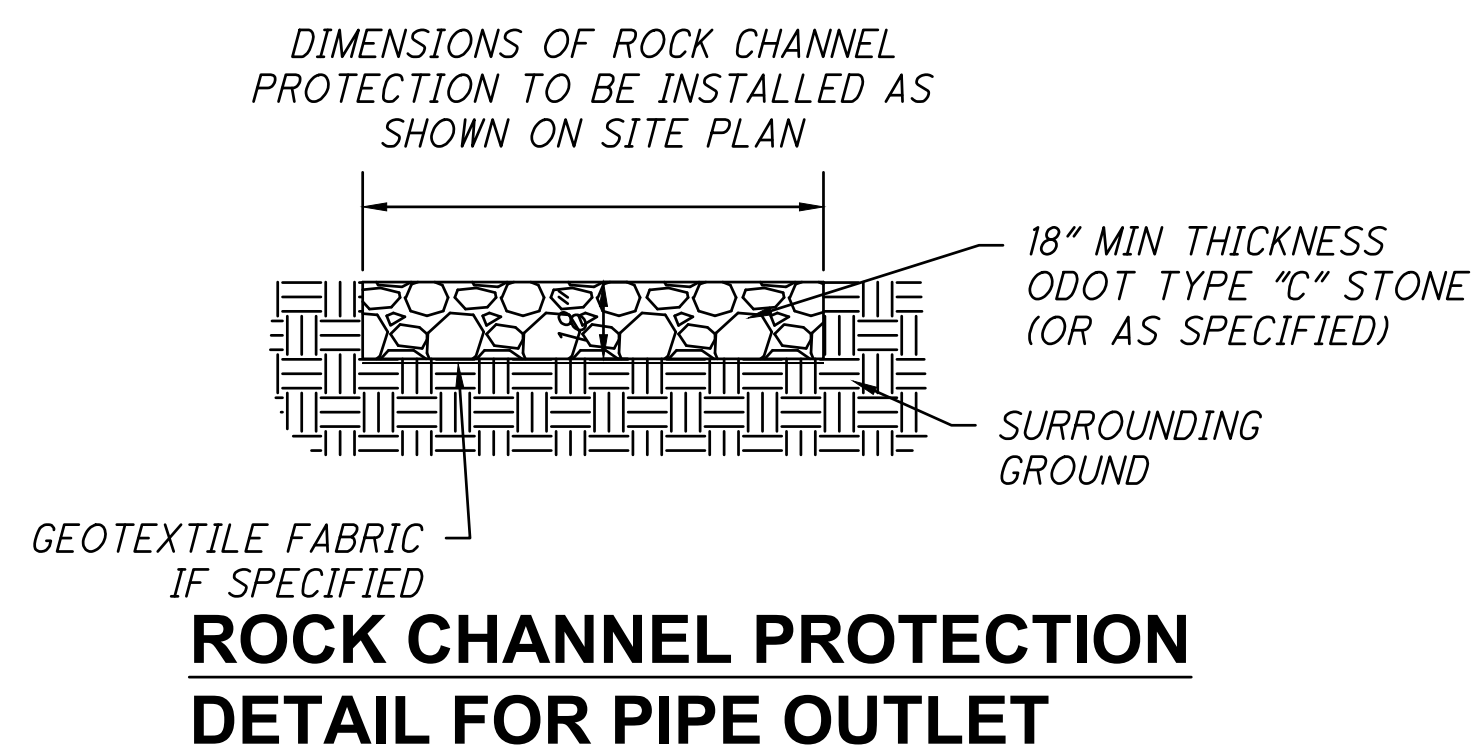


DANDY BAG® SPECIFICATIONS
 NOTE: THE DANDY BAG® WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:
 HI-FLOW DANDY BAG® (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m ² (gal/min/ft ²)	5907 (145)
Permittivity	ASTM D 4491	Sec ⁻¹	2.1

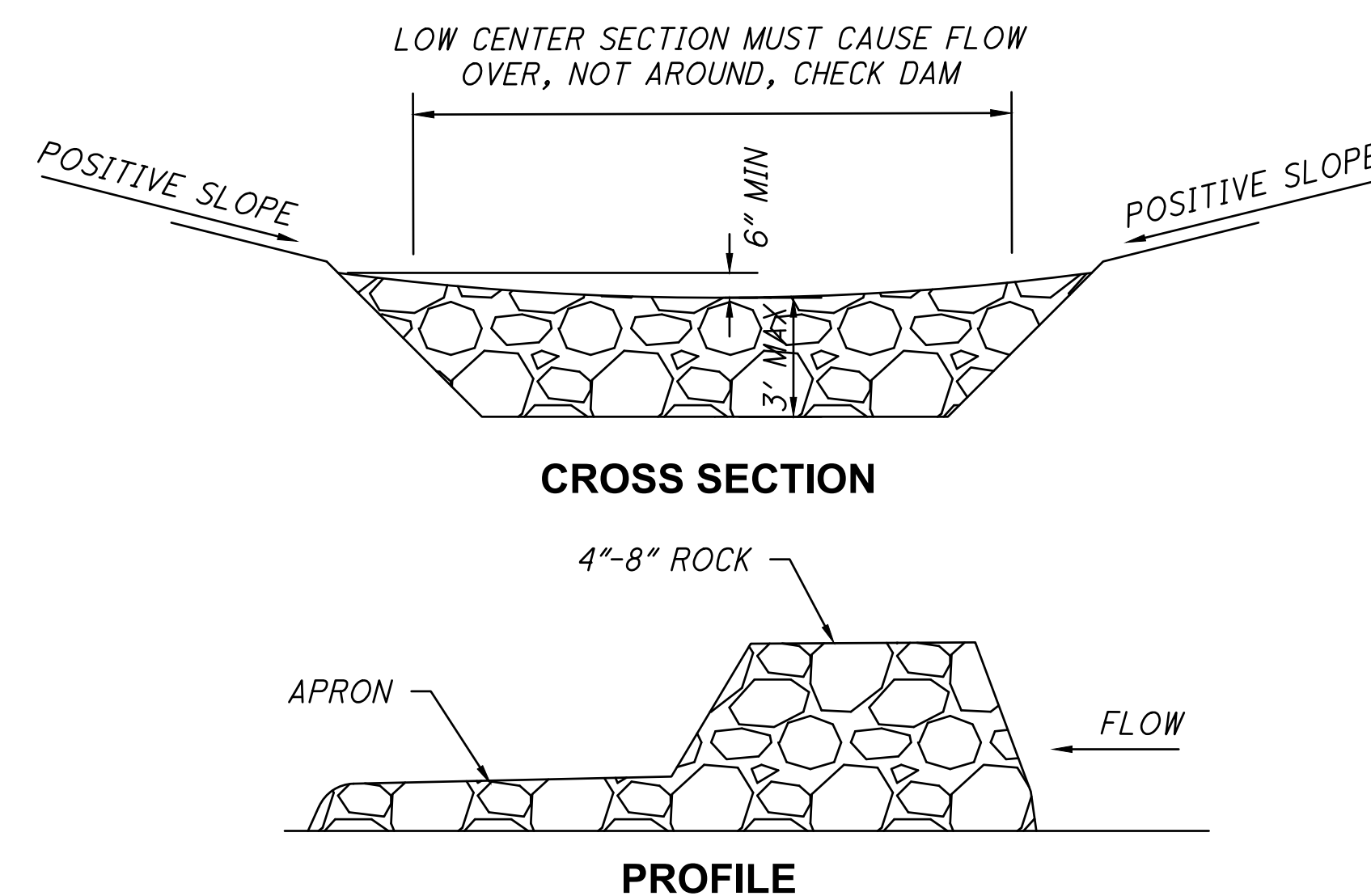
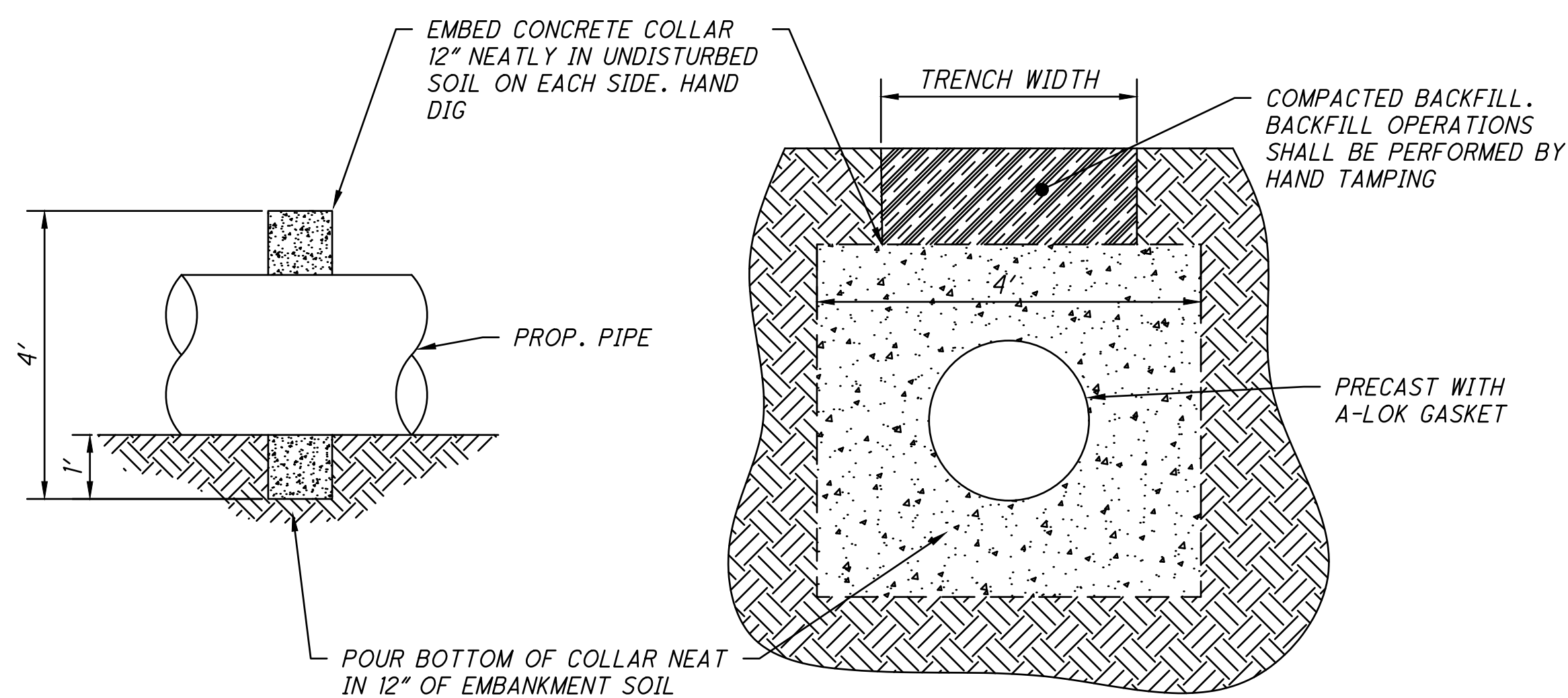
*Note: All Dandy Bags® can be ordered with optional oil absorbent pillows

INLET PROTECTION - DANDY BAG



ROCK CHANNEL PROTECTION DETAIL FOR PIPE OUTLET

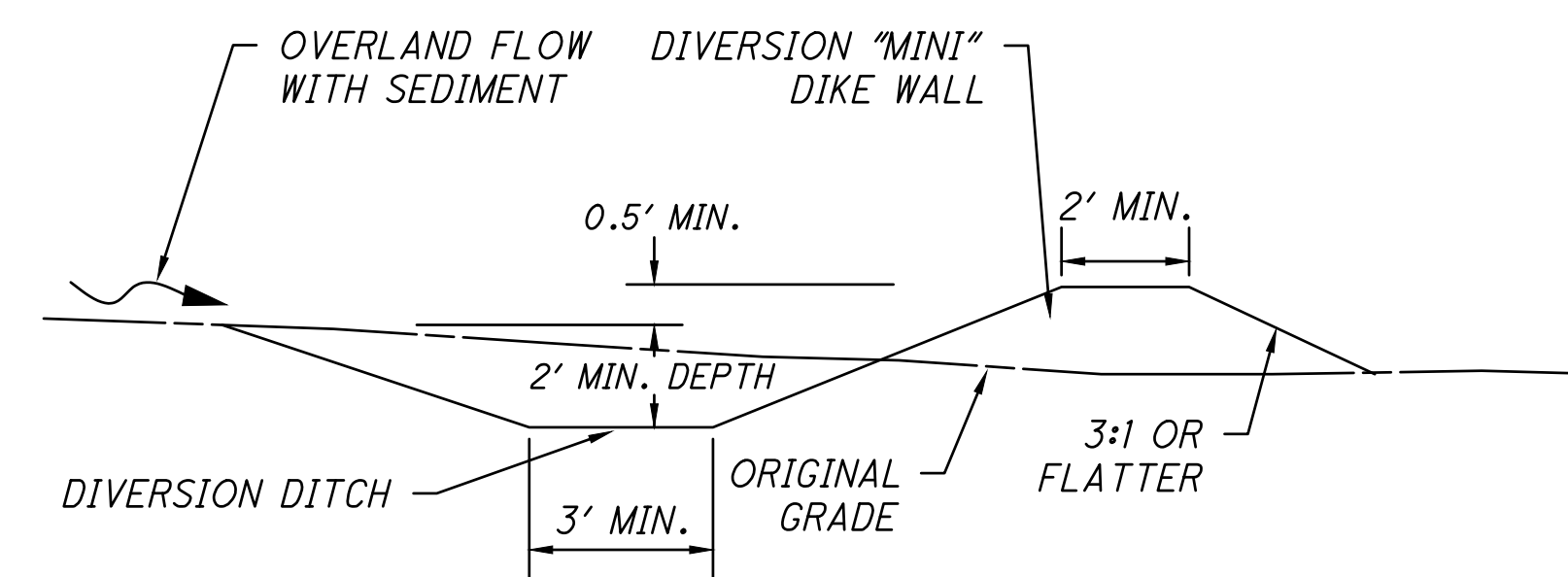
ANTI-SEEP COLLAR



NOTES

- THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT No. 3 OR 4 OR SUITABLE FILTER FABRIC.
- MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
- THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
- THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.
- A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 INCHES THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
- STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.
- SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

DITCH ROCK CHECK DAM



NOTES

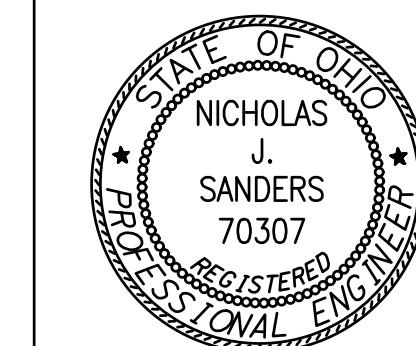
- BERM CAN BE CONSTRUCTED AS DITCH OR DIKE WALL
- PLACE DITCH ON A GRADE TO DRAIN TO SEDIMENT BASIN.

CROSS SECTION OF A DIVERSION BERM

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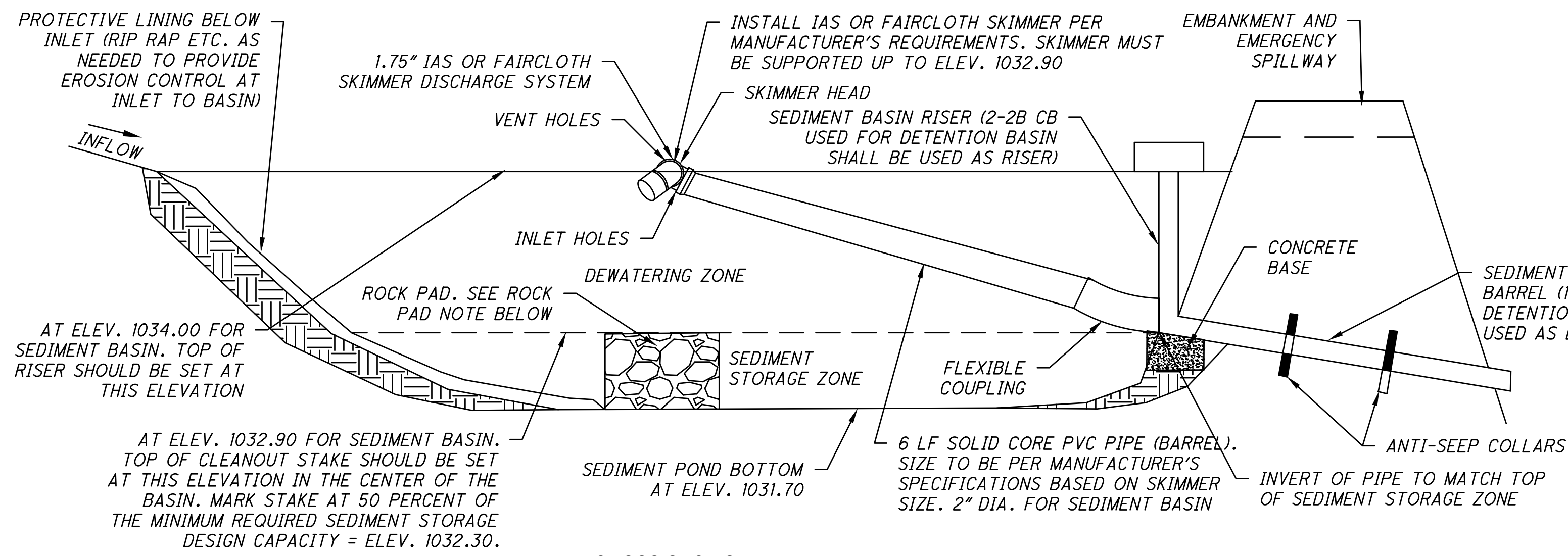


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COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
NJS	JSP

GENERAL NOTES AND DETAILS

C4.3



NOTES

- A. SEDIMENT BASINS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- B. SITE PREPARATION -THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT. GULLIES AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. THE SURFACE OF THE FOUNDATION AREA WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.
- C. EMBANKMENT -THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 IN. IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 IN. HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER IN A WAY THAT WILL RESULT IN THE REQUIRED COMPACTION. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. THE EMBANKMENTS OF THE SEDIMENT BASIN AND THE AREAS THAT LIE DOWNSTREAM OF THE POND MUST BE STABILIZED.
- D. PIPE SPILLWAY -THE PIPE CONDUIT BARREL SHALL BE PLACED ON A FIRM FOUNDATION TO THE LINES AND GRADES SHOWN ON THE PLANS. CONNECTIONS BETWEEN THE RISER AND BARREL, THE ANTI-SEEP COLLARS AND BARREL AND ALL PIPE JOINTS SHALL BE WATERTIGHT. SELECTED BACKFILL MATERIAL SHALL BE PLACED AROUND THE CONDUIT IN LAYERS AND EACH LAYER SHALL BE COMPACTED TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. ALL COMPACTION WITHIN 2 FT. OF THE PIPE SPILLWAY WILL BE ACCOMPLISHED WITH HAND-OPERATED TAMPING EQUIPMENT.
- E. RISER PIPE BASE -THE RISER PIPE SHALL BE SET A MINIMUM OF 6 IN. IN THE CONCRETE BASE.
- F. TRASH RACKS -THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.
- G. SEED AND MULCH -THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.
- H. SEDIMENT CLEANOUT -ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT STORAGE ZONE ONCE IT EXCEEDS 50 PERCENT OF THE MINIMUM REQUIRED SEDIMENT STORAGE DESIGN CAPACITY AND PRIOR TO THE CONVERSION TO THE POST-CONSTRUCTION PRACTICE UNLESS SUITABLE STORAGE IS DEMONSTRATED BASED UPON OVER-DESIGN. THIS ELEVATION SHALL BE MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE.
- I. FINAL REMOVAL - SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

OPERATIONS AND MAINTENANCE

SEDIMENT BASINS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. NECESSARY ACTIVITIES ARE SHOWN AS FOLLOWS:

- A. ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN.
- B. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS.
- C. PROMPTLY REPAIR ERODED AREAS. REESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING.
- D. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT.
- E. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND.
- F. CHECK SPILLWAY OUTLETS AND POINTS OF INFLOW TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED. REPLACE DISPLACED RIPRAP IMMEDIATELY.

ROCK PAD NOTE

IT IS VERY IMPORTANT THAT A ROCK PAD BE CONSTRUCTED TO THE HEIGHT OF THE TOP OF THE SEDIMENT STORAGE ZONE. IF THIS IS NOT DONE OR IF THE PAD IS NOT BUILT TO THE SAME HEIGHT AS THE TOP OF THE SEDIMENT STORAGE ZONE, THE SKIMMER WILL NOT FUNCTION PROPERLY .

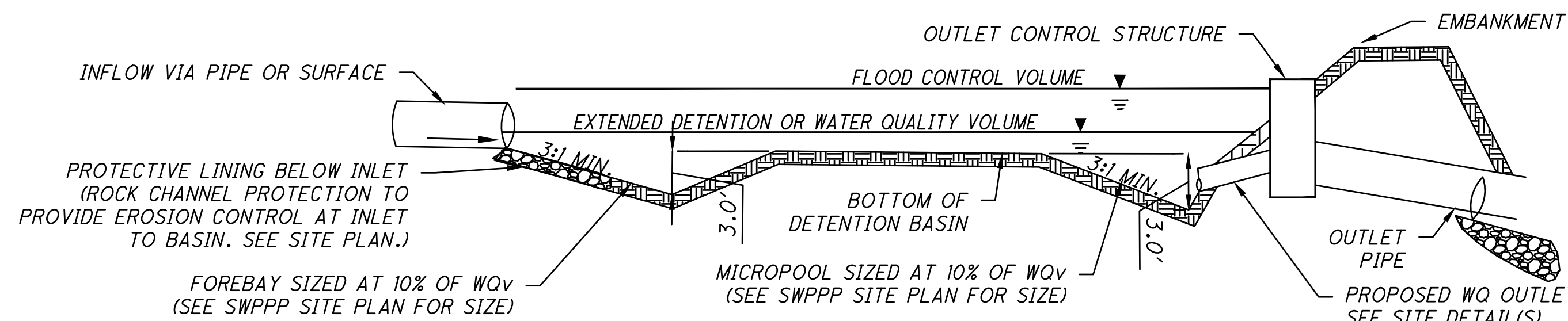
WHEN COMPLETE THE IAS FLEXIBLE COUPLING SHOULD BE LYING FLAT ON THE ROCK PAD. THE UNIT WILL BE TOUCHING AT TWO POINTS: THE TOP OF THE BARREL/MIDDLE OF THE SKIMMER HEAD AND THE POINT AT WHICH THE BARREL IS ATTACHED TO THE IAS FLEXIBLE COUPLING. SEE MANUFACTURER'S ASSEMBLY INSTRUCTIONS.

SEDIMENT BASIN CALCULATIONS

REQUIRED SEDIMENT STORAGE VOLUME = 37 C.Y./ACRE * 3.11 ACRES = 115 C.Y.
 TOP OF SEDIMENT STORAGE ZONE ELEVATION = 1032.90 (145 C.Y.). SET TOP OF CLEANOUT STAKE AT THIS ELEVATION.
 REQUIRED DEWATERING ZONE VOLUME = 67 C.Y./ACRE * 3.47 ACRES = 233 C.Y.
 DEWATERING ZONE VOLUME (BETWEEN 1034.00 AND 1032.90) = 582 C.Y.
 TOTAL BASIN VOLUME REQUIRED TO TOP OF DEWATERING ZONE = 115 C.Y. + 233 C.Y. = 348 C.Y.
 TOP OF DEWATERING ZONE ELEVATION = 1034.00 (727 C.Y.)
 TOTAL SEDIMENT BASIN VOLUME PROVIDED TO ELEV. 1034.00 = 727 C.Y.
 RISER AND BARREL: PROPOSED 12" DETENTION OUTLET AND 2-2B CB ARE TO BE USED AS OUTLET FOR SEDIMENT BASIN.
 DEWATERING TIME : 2.62 DAYS
 233 C.Y. * 27 = 6291 CF VOLUME TO BE DEWATERED
 USING A FAIRCLOTH/IAS WATER QUALITY SKIMMER WITH A 1.75" SKIMMER SIZE, IT DISCHARGES 2405 CF PER 24 HOURS THEREFORE IT WILL TAKE 2.62 DAYS TO DEWATER THIS SEDIMENT BASIN.

SEDIMENT BASIN CONVERT TO SITE DETENTION BASIN NOTE

UPON COMPLETION OF THE PROJECT, IF THE SEDIMENT BASIN IS TO SERVE AND FUNCTION AS A SITE DETENTION/RETENTION BASIN, ALL SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN WHICH IS ABOVE ITS PROPOSED FINAL SURFACE GRADES THROUGHOUT THE BASIN AND ALSO AS NEEDED TO PLACE ANY REQUIRED TOPSOIL. UPON PROJECT COMPLETION AND FINAL CLEANING, THE SEDIMENT BASIN SHOULD BE ESTABLISHED TO ITS PROPOSED RETENTION/DETENTION BASIN DESIGN INCLUDING CAPACITY, GRADES, OUTLETS, FOREBAY AND MICROPOOL.



TYPICAL MAINTENANCE ACTIVITIES FOR DETENTION BASINS

POTENTIAL POLLUTANT SOURCES POST CONSTRUCTION THAT SHOULD BE MONITORED INCLUDE: TRASH, FERTILIZERS, GRAINS, HERBICIDES, PESTICIDES, LAWN TREATMENT APPLICATIONS ALONG WITH ASSORTED FUELS, OILS, GREASE, HYDRAULIC FLUID, AND OTHER VEHICULAR FLUIDS ASSOCIATED WITH TRAFFIC THROUGHOUT THE DEVELOPED SITE.

MONTHLY: MOW EMBANKMENT AND CLEAN TRASH AND DEBRIS FROM OUTLET STRUCTURE. ADDRESS ANY ACCUMULATION OF HYDROCARBONS.

ANNUALLY: INSPECT EMBANKMENT AND OUTLET STRUCTURE FOR DAMAGE AND PROPER FLOW. REMOVE WOODY VEGETATION AND FIX ANY ERODING AREAS. MONITOR SEDIMENT ACCUMULATIONS IN FOREBAY AND MAIN POOL.

SEMI-ANNUALLY: INSPECT WETLAND AREAS FOR INVASIVE PLANS

3-7 YEARS: REMOVE SEDIMENT FROM FOREBAYS.

15-20 YEARS: MONITOR SEDIMENT ACCUMULATIONS IN THE MAIN POOL AND CLEAN AS POND BECOMES EUTROPHIC OR POOL VOLUME IS REDUCED SIGNIFICANTLY.

FINAL DETENTION BASIN

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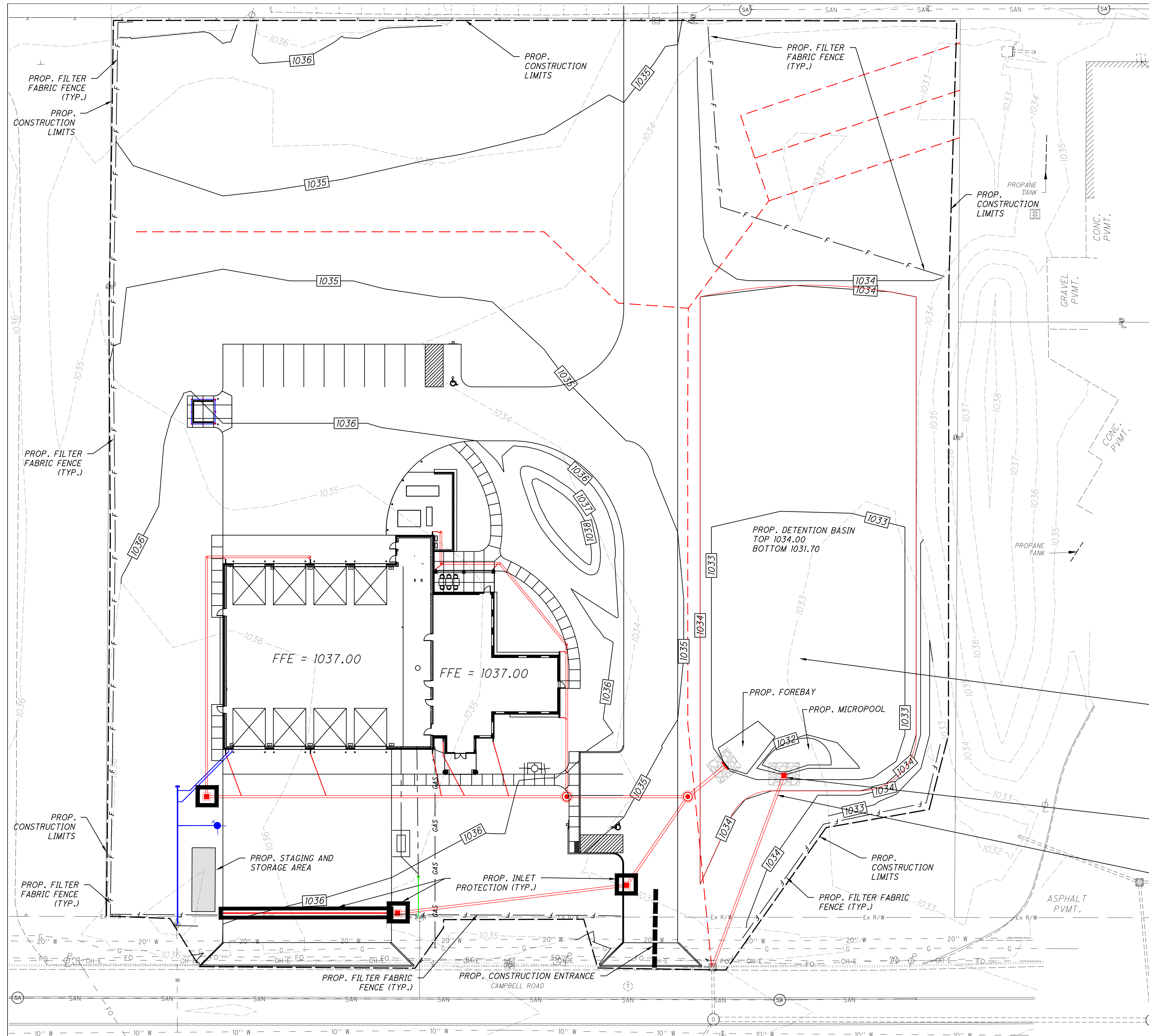
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 NICHOLAS J. SANDERS
 70307
 REGISTERED PROFESSIONAL ENGINEER

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GENERAL NOTES AND DETAILS

C4.4



LEGEND

- 830- EXISTING CONTOURS
- 830- PROPOSED CONTOURS
- PROPOSED STORM SEWER
- - - PROPOSED CONSTRUCTION LIMITS
- F PROPOSED FILTER FABRIC FENCE MEASURE
- PROPOSED INLET PROTECTION
- PROPOSED CONSTRUCTION ENTRANCE

THIS AREA IS TO BE USED FOR VEHICLE FUELING AND MAINTENANCE. AN ABOVE GROUND STORAGE TANK OF LESS THAN 500 GALLONS WILL BE USED AS THE FUEL SOURCE. THIS AREA WILL ALSO BE USED FOR RECEIVING CONCRETE CHUTE AND OTHER CONCRETE WASH WATERS. THIS SHALL NOT OCCUR ON STREET SUBGRADE OR BASE.

WATER QUALITY AND POST CONSTRUCTION STORM WATER MANAGEMENT AND TREATMENT:
 THE FIRST 0.90" OF STORMWATER RUNOFF FOR THE SITE WILL BE CONTROLLED VIA FILTRATION (AND SOME INFILTRATION) BY THE GRASSED AREAS IN AND AROUND THE PROPOSED IMPERVIOUS AREAS, GRASSED SWALES, AND GRASSED BOTTOM OF THE DETENTION BASIN. ADDITIONAL POLLUTANTS WILL ALSO SETTLE OUT OVER TIME IN THE DETENTION BASIN.
 THE ON-SITE DETENTION BASIN HAS BEEN DESIGNED TO TREAT THE WATER QUALITY VOLUME (WQV) USING A REDUCED SIZED ORIFICE FOR AN OUTLET AS FOLLOWS:
 -RELEASE THE RUNOFF FROM A 0.90" RAIN EVENT ON THE SITE DRAINAGE AREA OVER 48 HOURS OR LONGER AND
 -THE FIRST HALF OF THE TOTAL VOLUME GENERATED BY THE RUNOFF FROM A 0.90" RAIN EVENT IS RETAINED FOR GREATER THAN 16 HOURS.

POST-CONSTRUCTION STORM WATER MANAGEMENT WATER QUALITY VOLUME FOR DEVELOPMENT USING 0.90 INCHES OF RAIN:
 DETENTION BASIN:
 $WQV = 0.33 * 0.90 * 3.468 / 12 = 3727$ CU FT
 3846 CU FT PROVIDED TO ELEV. 1032.90
 THE DETENTION BASIN HAS AN OUTLET WITH A 1.2" DIA. ORIFICE THAT RELEASES APPROX. 32% OF THE WQV AT 16 HOURS AND APPROX. 96% AT 48 HOURS

SEE SEPARATE STORMWATER CALCS. FOR ADDITIONAL DETAILS IF NEEDED

PROP. SEDIMENT BASIN
 TOP 1034.00
 BOTTOM 1031.70
 A CLEANOUT STAKE SHOULD BE PLACED NEAR THE CENTER OF THE BASIN SO THAT THE TOP OF THE STAKE'S ELEVATION IS AT 1032.90. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASIN WHENEVER IT REACHES 50% OF THE TOP ELEVATION OF THE CLEANOUT STAKE.

PROP. 2-2B CB WITH TOP AT 1034.00. 12" OUTLET PIPE INV. 1031.70. INSTALL 1.75" IAS WATER QUALITY SKIMMER IN SEDIMENT BASIN PER MANUFACTURER'S REQUIREMENTS. CONNECT TO RISER AT ELEVATION 1032.90. CONNECT TO 4" X 21" RECTANGULAR ORIFICE OPENING.

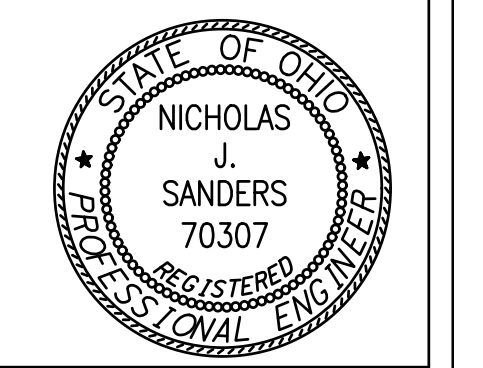
FINAL 12" OUTLET PIPE AND 2-2B CB ARE TO BE USED AS THE OUTLET FOR THE SEDIMENT BASIN. THE SKIMMER SHALL BE CONNECTED TO THE CB AT INV 1032.90. SKIMMER TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED AND SITE IS STABILIZED.

BENCHMARK #1 ELEV: 1036.53
 NORTH BOLT TOP FLANGE OF FIRE HYDRANT SOUTH SIDE OF CAMPBELL RD DIRECTLY SOUTH OF Ex. STM. MH #5.

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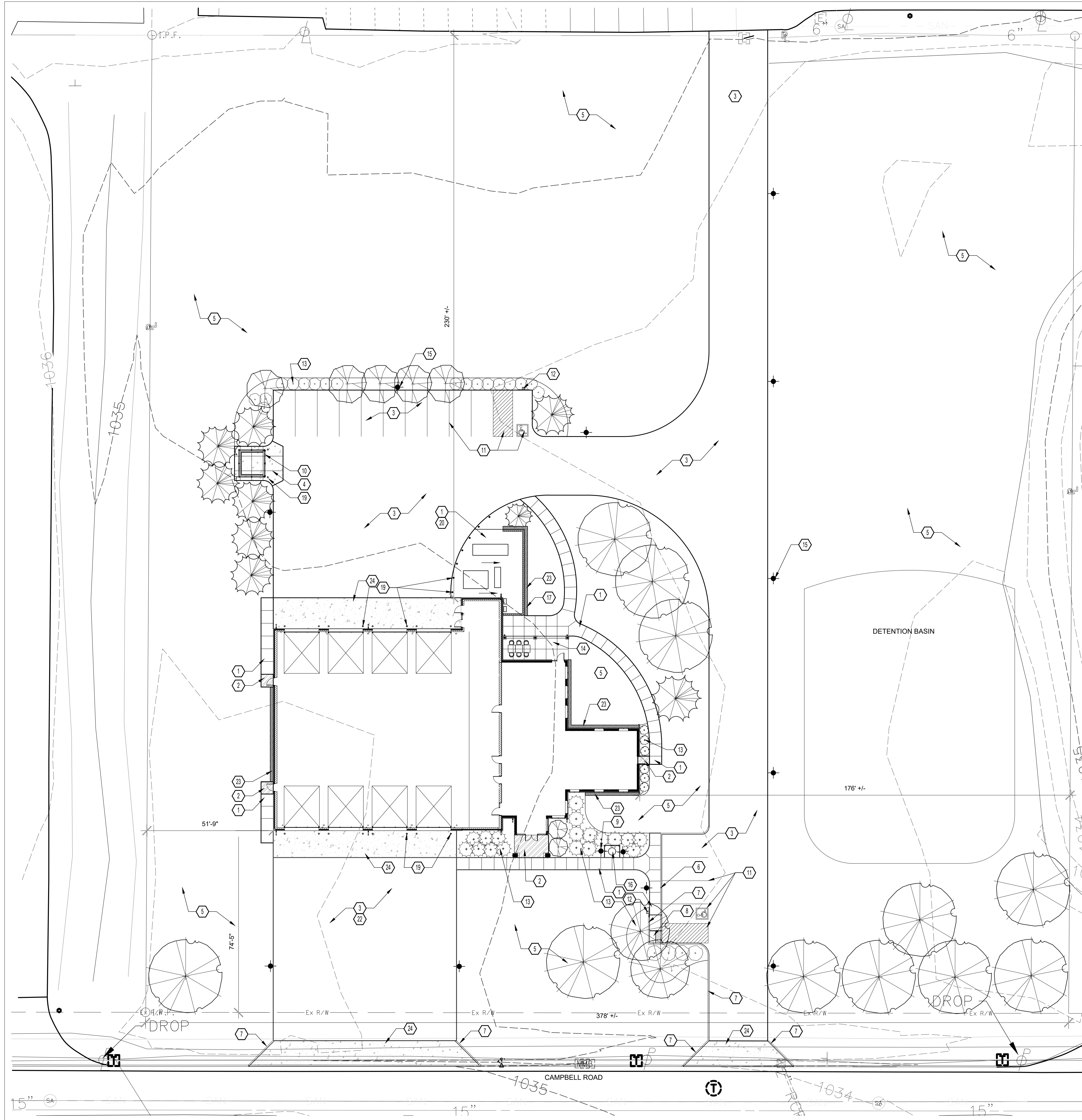
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SITE EROSION CONTROL PLAN

C4.5



CODED NOTES

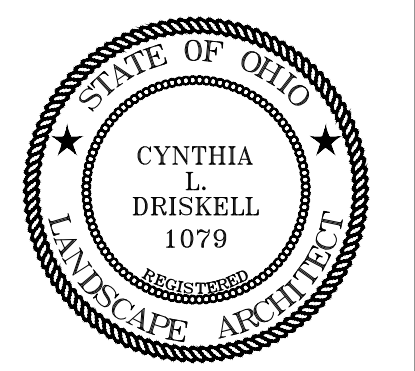
1. 4" THICK CONCRETE WALK. PROVIDE CONTROL AND EXPANSION JOINTS AS PER INDUSTRY STANDARDS, SEE DETAIL 1/L2.0
2. FROST-PROOF SLAB AT ENTRIES, SEE STRUCTURAL DRAWINGS
3. HEAVY DUTY ASPHALT, SEE DETAIL 3/L2.0
4. HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL 2/L2.0
5. LAWN, SEED ALL AREAS DISTURBED BY CONSTRUCTION, SEE TURF SPECIFICATIONS, SHEET L3.1
6. INTEGRAL CURB, SEE DETAIL 4/L2.0
7. BARRIER CURB, SEE DETAIL 5/L2.0
8. ADA COMPLIANT CURB RAMP, SEE DETAIL 6/L2.0
9. FLAGPOLE LIGHTS, SEE ELECTRICAL DRAWINGS
10. METAL DUMPSTER ENCLOSURE, SEE DETAIL 12/ L2.0
11. PAINT PARKING LOT STRIPING AND SYMBOLS ON ASPHALT AS SHOWN ON PLAN, SEE DETAIL 9/L2.0 FOR HC SYMBOL
12. ADA COMPLIANT ACCESSIBLE PARKING SIGNAGE, SEE DETAIL 10/L2.0
13. NATURAL HARDWOOD MULCHED PLANT BED, SEE SHEET L3.0 & L3.2 FOR PLANTING PLAN AND SPECIFICATIONS
14. CONCRETE PATIO UNDER CANOPY, SEE DETAIL 1/L2.0 FOR CONCRETE. SEE SHEET A2.1 AND REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL DETAIL.
15. SEE ELECTRICAL DRAWINGS FOR INFORMATION REGARDING EXISTING AND NEW POLE LOCATIONS
16. NEW FLAGPOLE, SEE DETAIL 7/L2.0
17. SEE PLUMBING DRAWINGS FOR GAS LINES FOR FUTURE FIRE PIT
18. OMIT NOTE
19. 6" DIAMETER BOLLARDS, SEE DETAIL 11/L2.0. PROTECT GARAGE DOOR OPENINGS, MECHANICAL YARD AND DUMPSTER AREA CURBS
20. ASSURE PAVEMENT AROUND EQUIPMENT IS SLOPED TO DRAIN. SEE CIVIL DRAWINGS FOR MORE INFORMATION. SEE MEP AND STRUCTURAL DRAWINGS FOR EQUIPMENT PADS AND ADDITIONAL MECHANICAL YARD INFORMATION.
21. OMIT NOTE
22. ALTERNATE 1: PROVIDE HEAVY DUTY CONCRETE SHOWN ON DETAIL 2/L2.0 IN LIEU OF HEAVY-DUTY ASPHALT, SPECIFICATION SECTION 012300 ALTERNATES
23. 15" WIDE MOW STRIP, SEE DETAIL 8/L2.0
24. HEAVY DUTY CONCRETE APRON, CITY OF SIDNEY DETAIL 300-6, SEE DETAIL 2/L2.0 FOR PAVEMENT DETAILS

GENERAL NOTES

- A. Field verify all dimensions & conditions prior to start of construction. Notify owner immediately of any discrepancy or situation discovered that does not conform to construction documents.
- B. All work performed is subject to approval by the owner. Work found to be unsatisfactory shall be removed and properly replaced by the contractor at no additional cost to the owner.
- C. Temporarily support all walls, headers, structures, piping, ductwork, conduit, etc., as required until final supports are in place.
- D. Patch & repair all areas, surfaces & materials to condition of surrounding area where left exposed to view. New walks to meet existing in a smooth and continuous condition.
- E. Closely coordinate all work with the owner and with all other contractors hired by the owner. Clarify in advance any questions as to scope of work and areas of responsibility.

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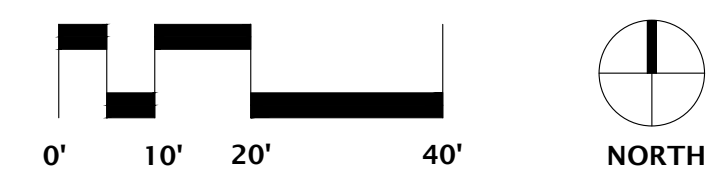
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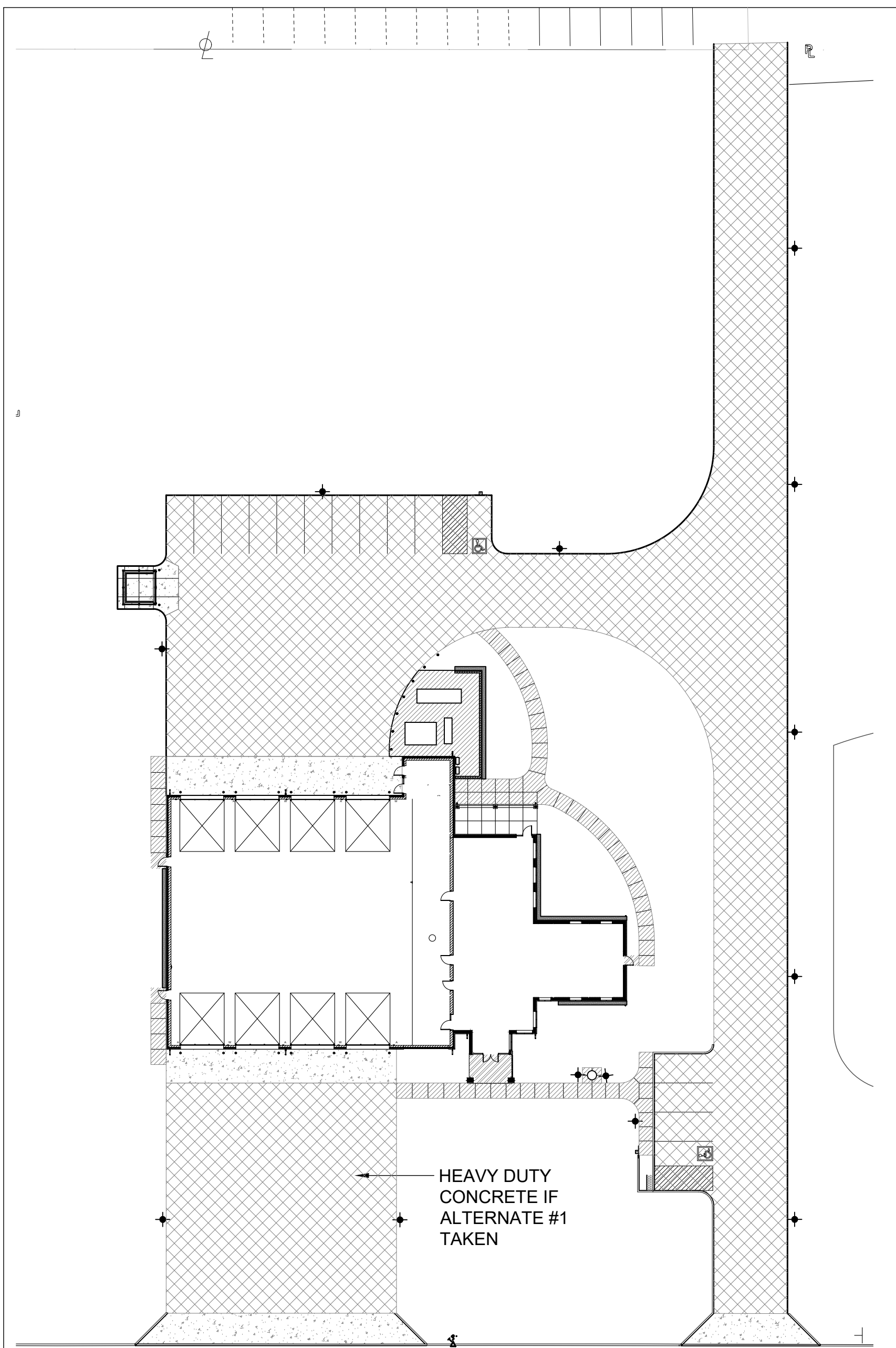
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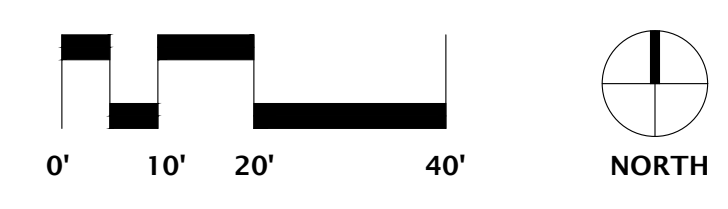
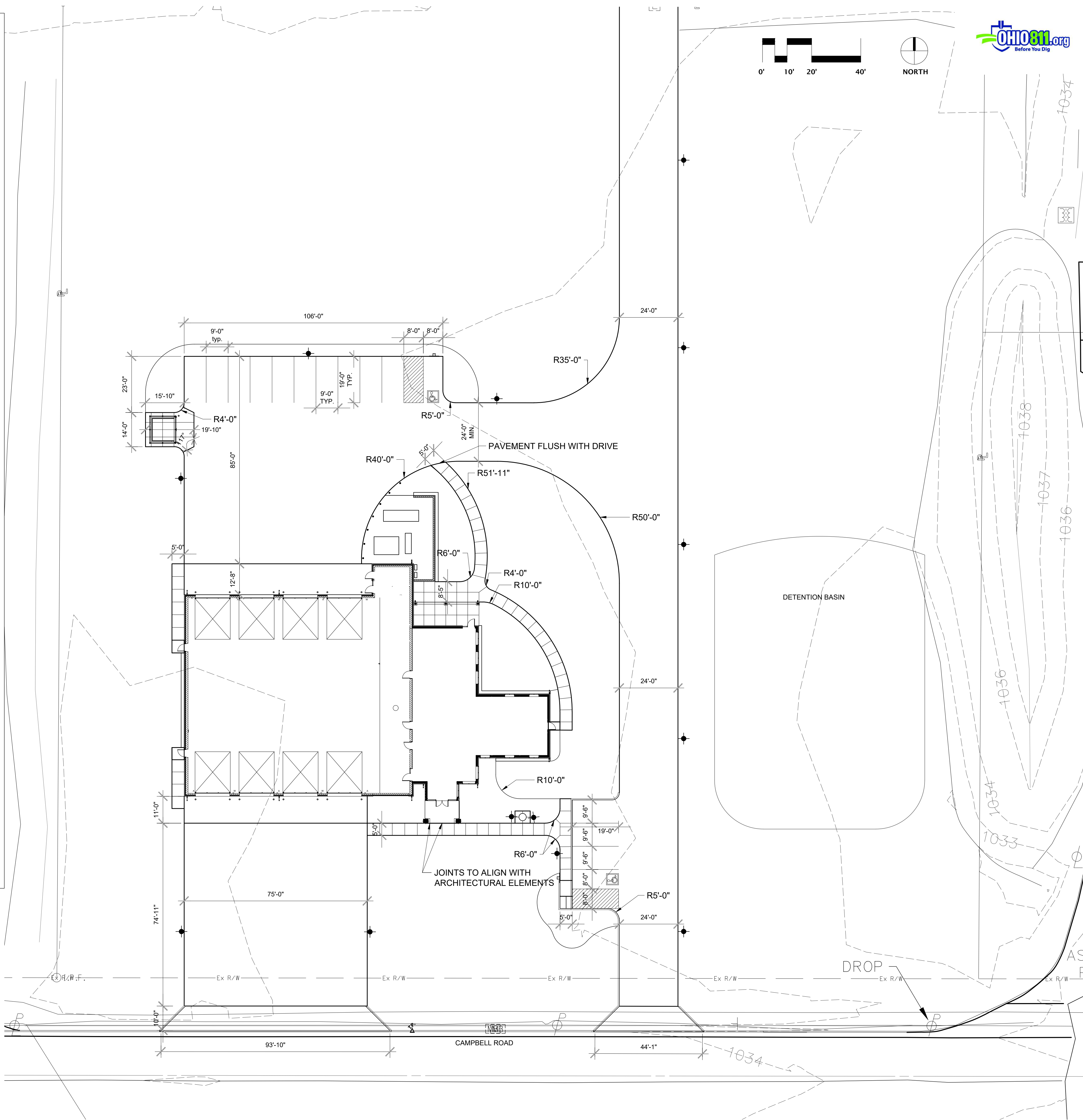
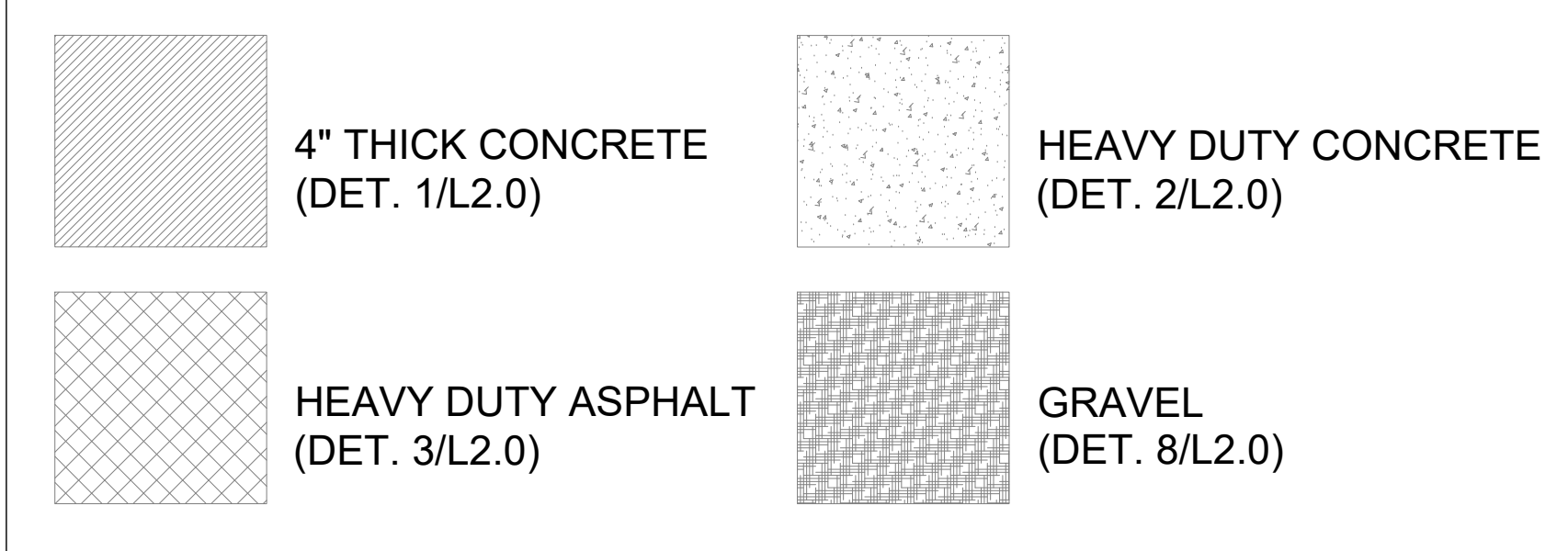
SITE PLAN

L1.0



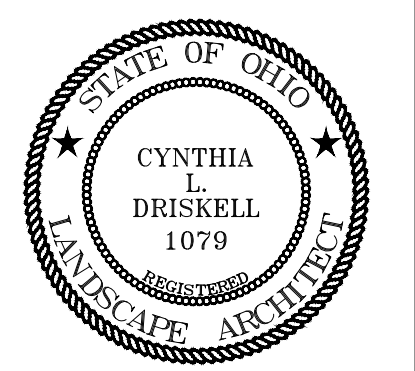


PAVEMENT KEY



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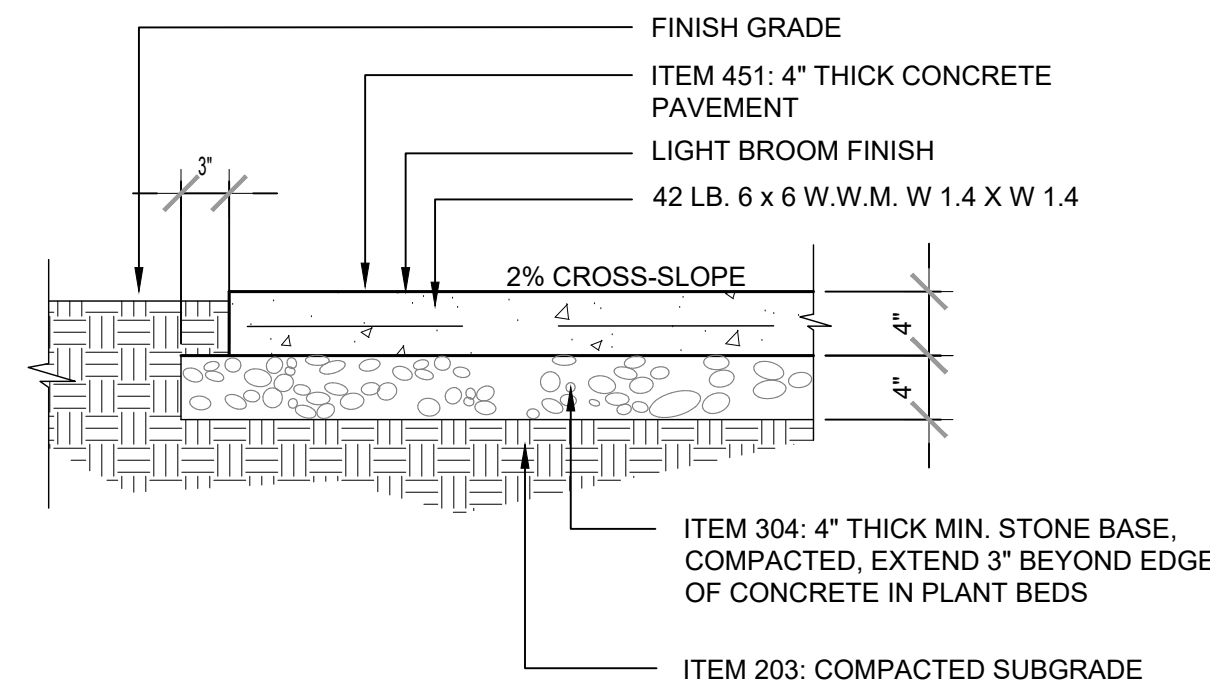
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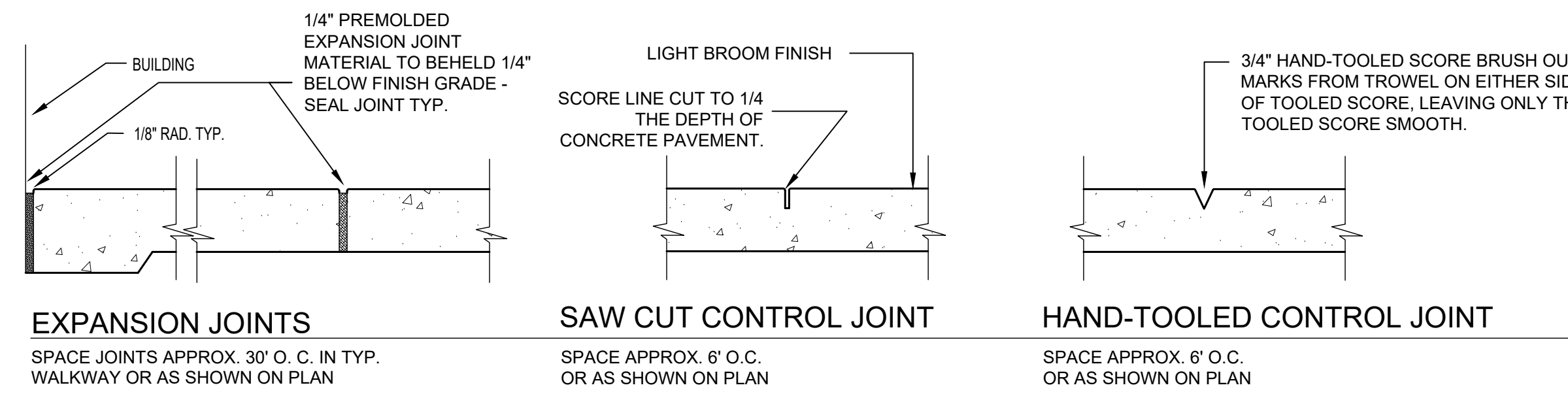
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LAYOUT

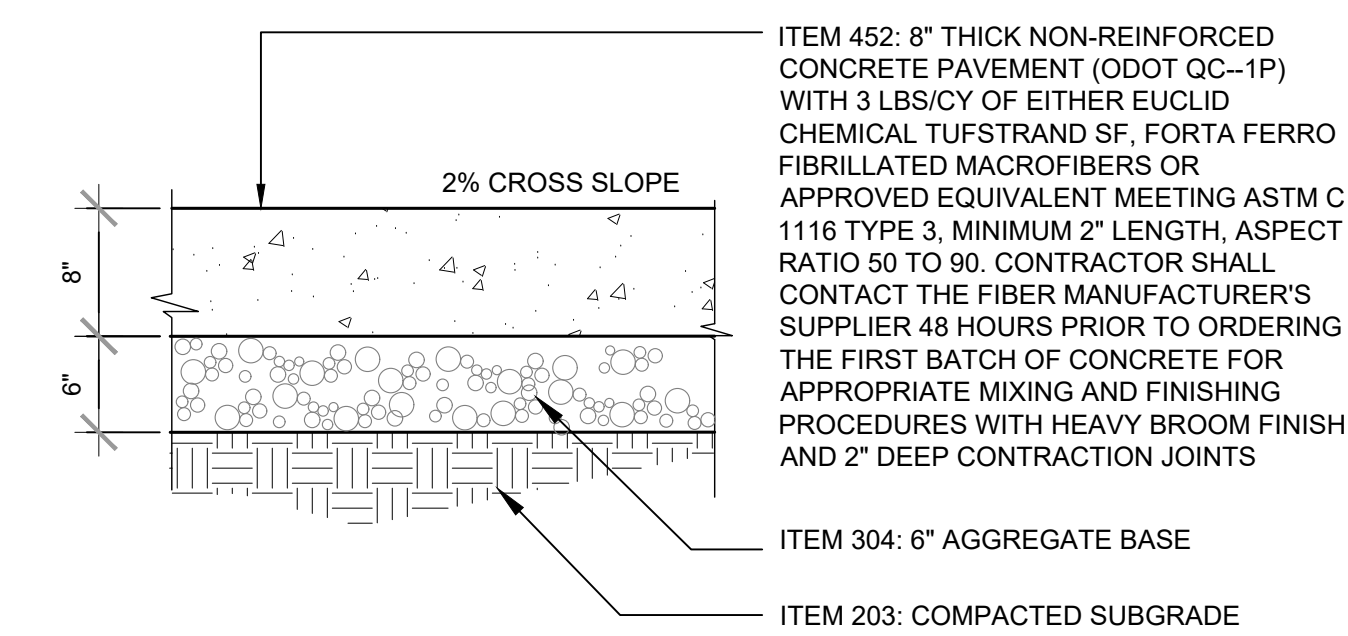
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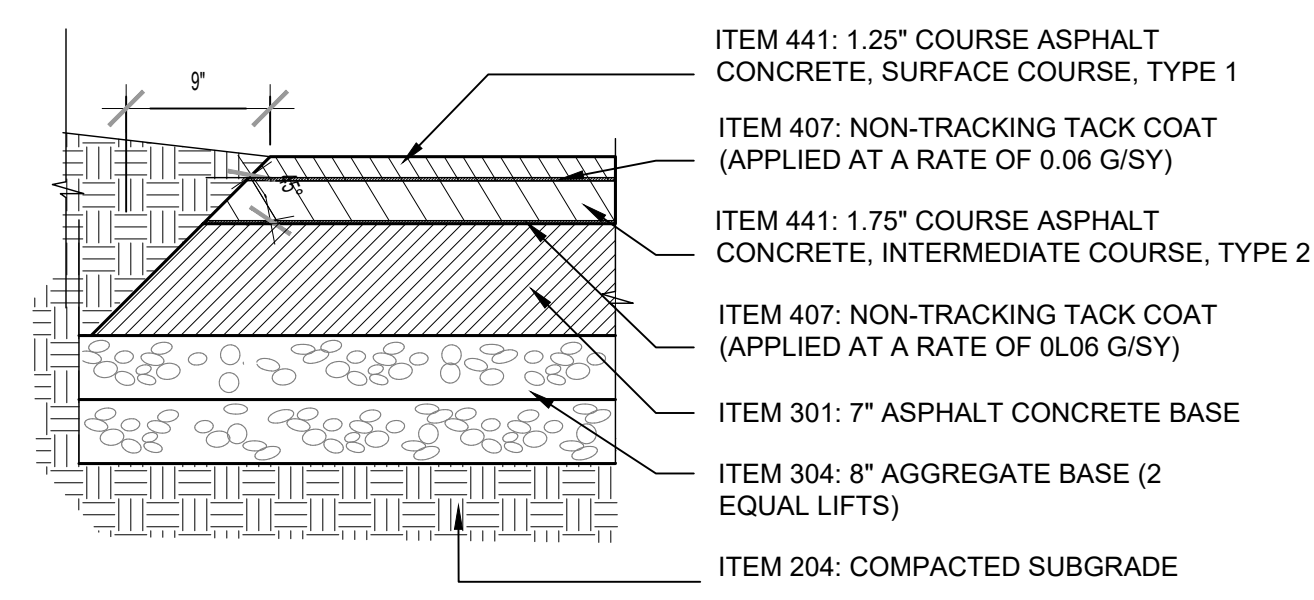
① 4" THICK CONCRETE PAVEMENT DETAIL
1" = 1'-0"



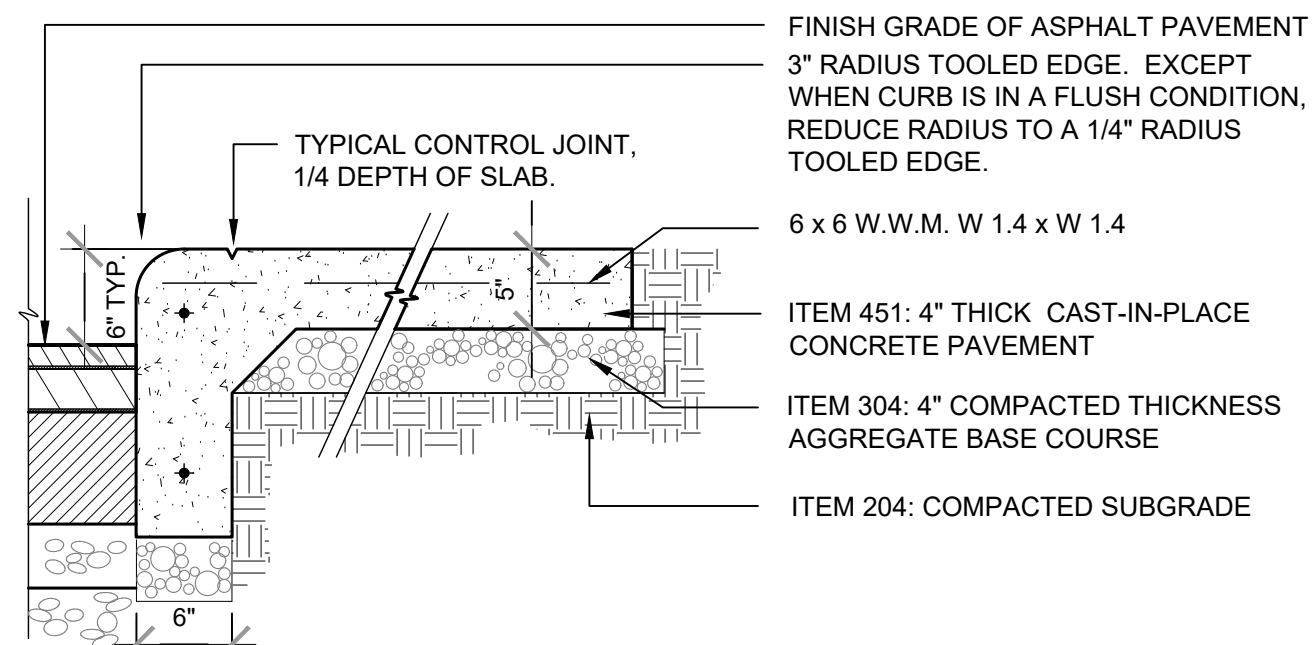
TYPICAL CONCRETE PAVEMENT JOINTS
1" = 1'-0"



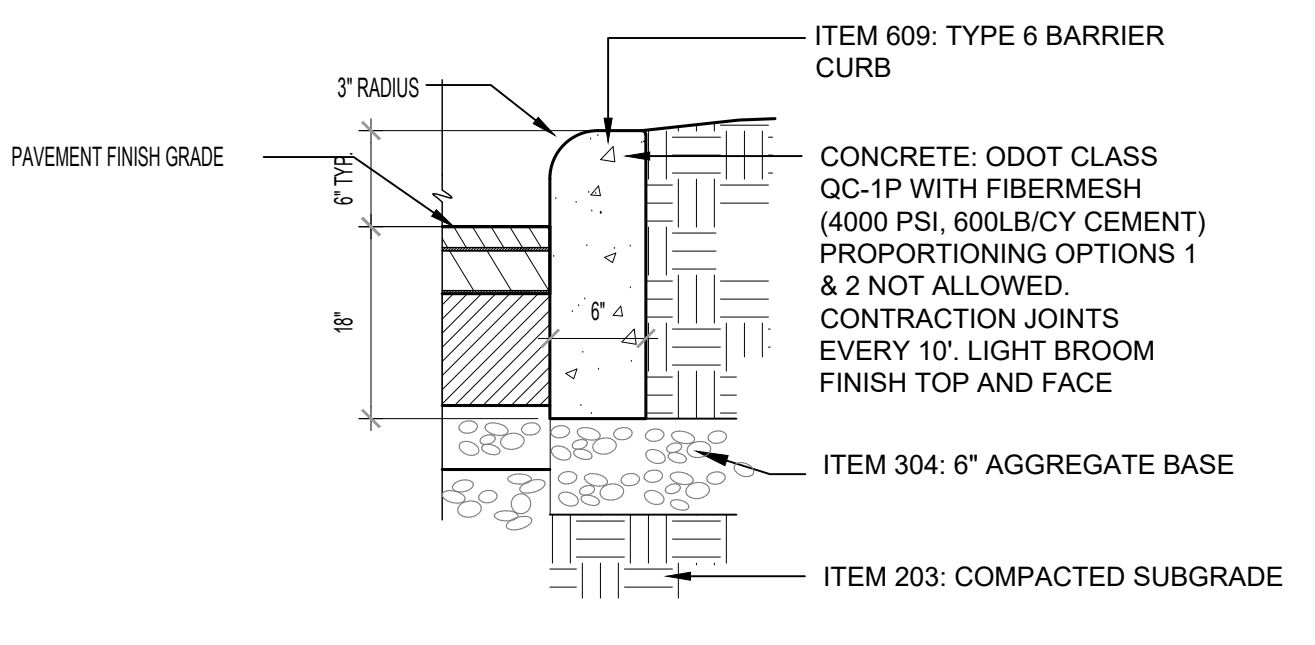
② HEAVY DUTY CONCRETE PAVEMENT
1" = 1'-0"



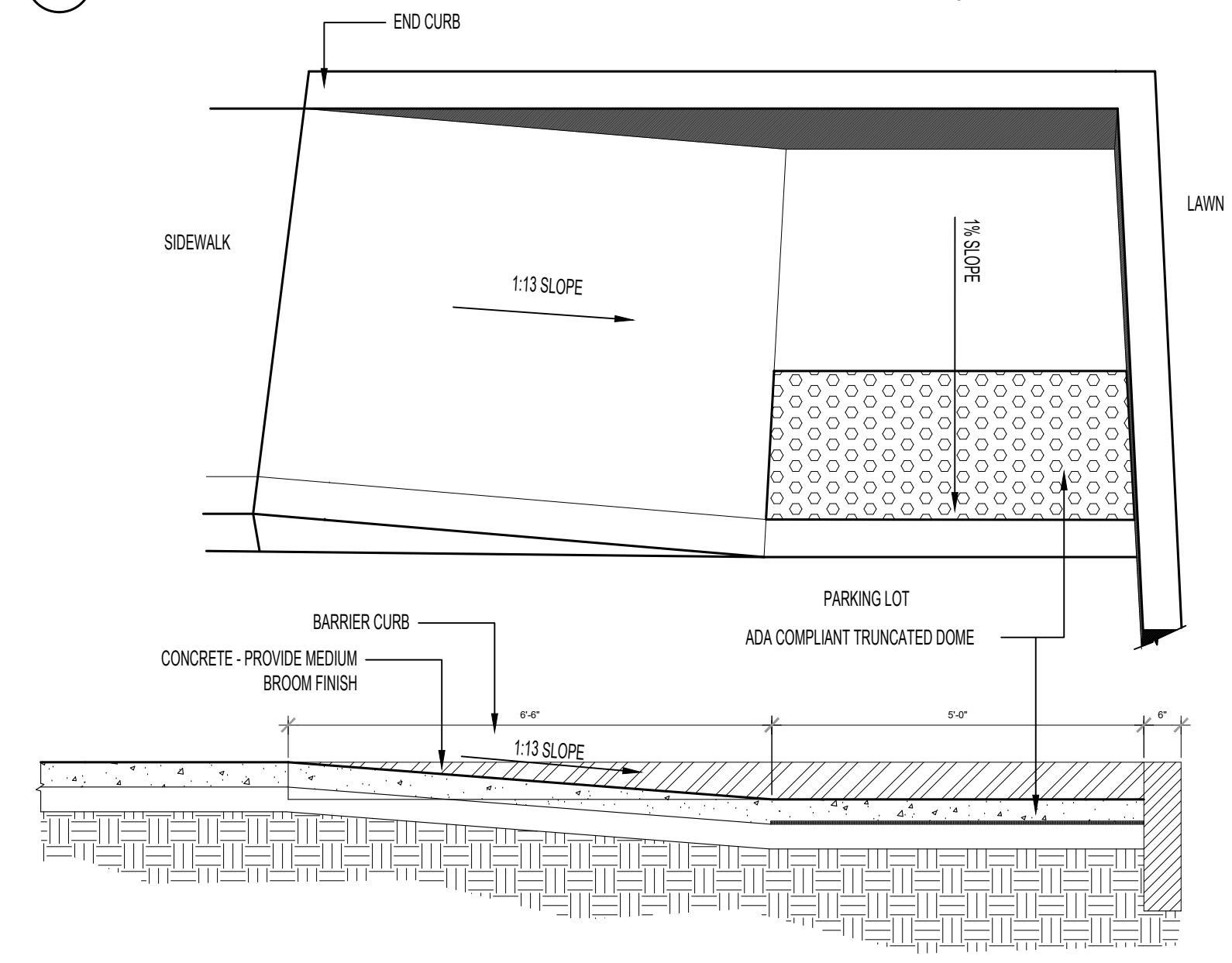
③ HEAVY DUTY ASPHALT PAVEMENT
1" = 1'-0"



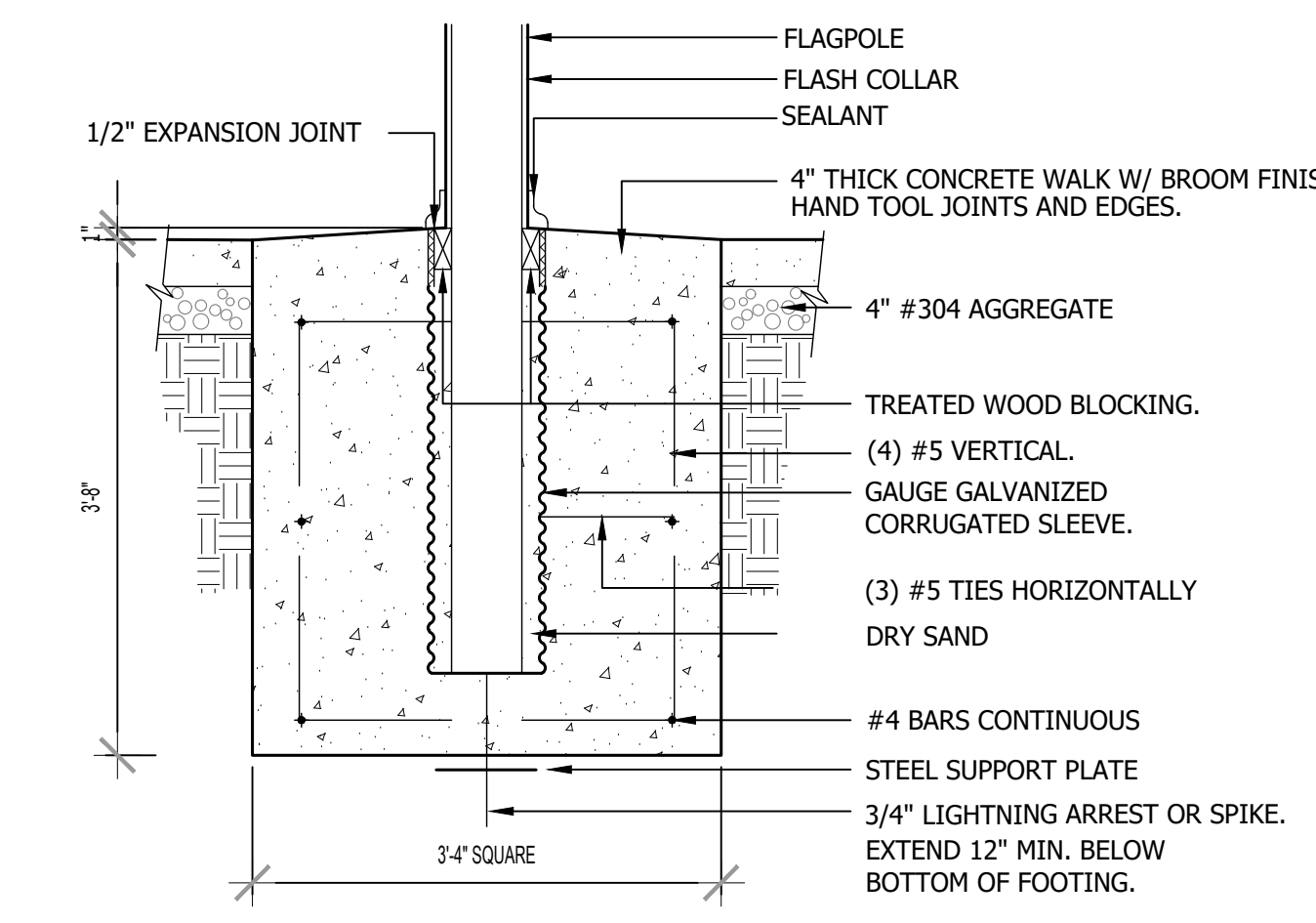
④ INTEGRAL CONCRETE CURB & WALK
1" = 1'-0"



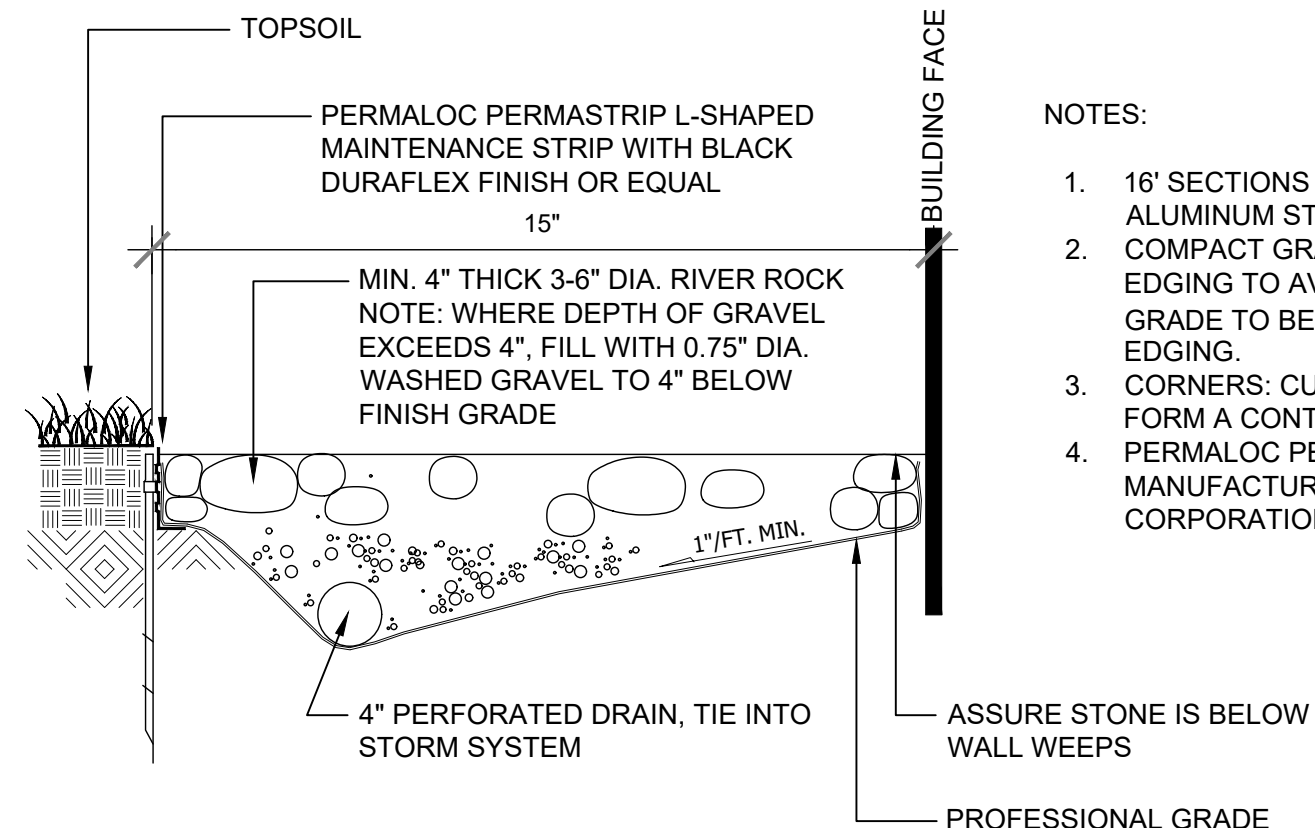
⑤ BARRIER CURB DETAIL
1" = 1'-0"



⑥ CURB RAMP (B1) SINGLE SIDED PARALLEL
1/2" = 1'-0"



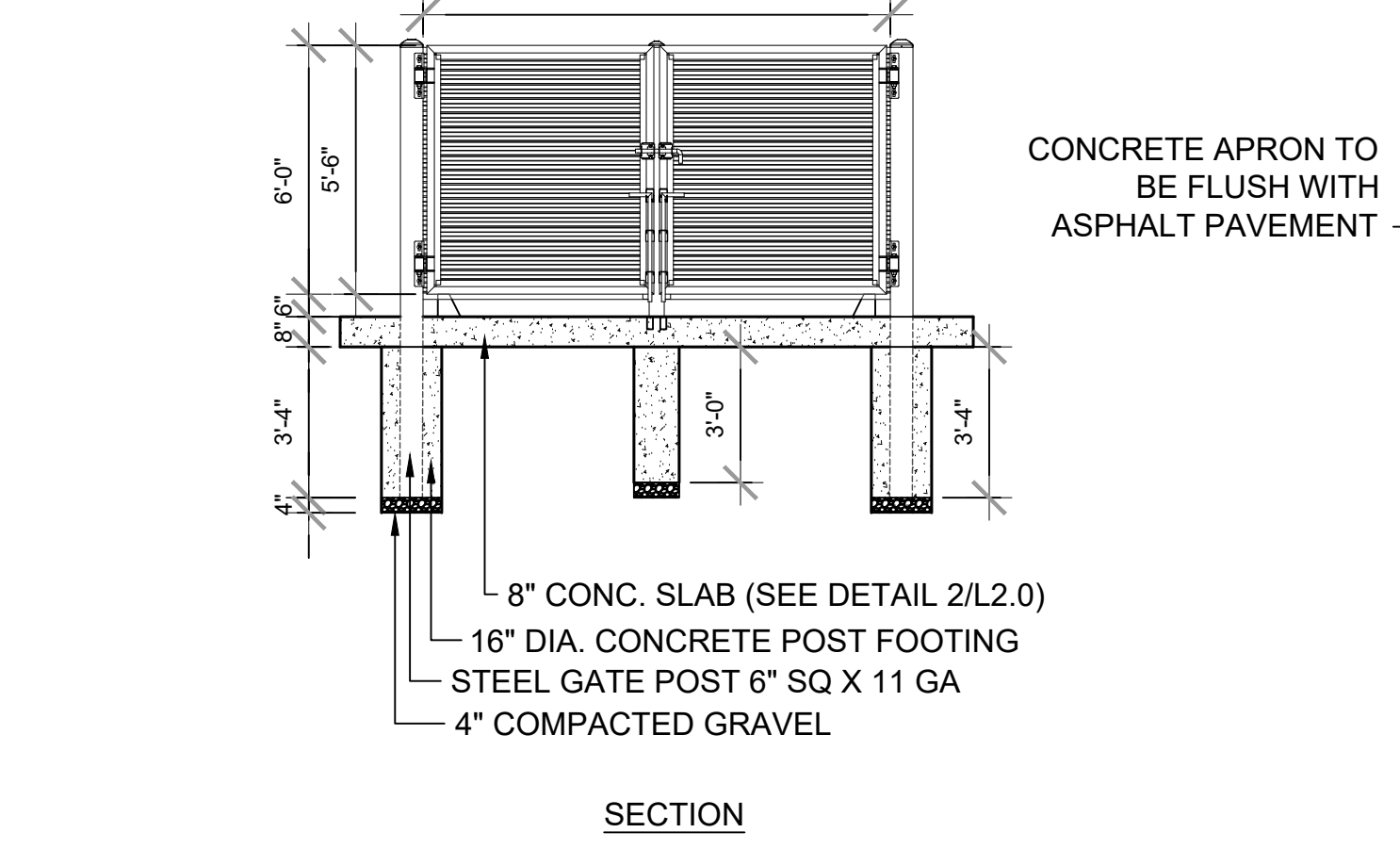
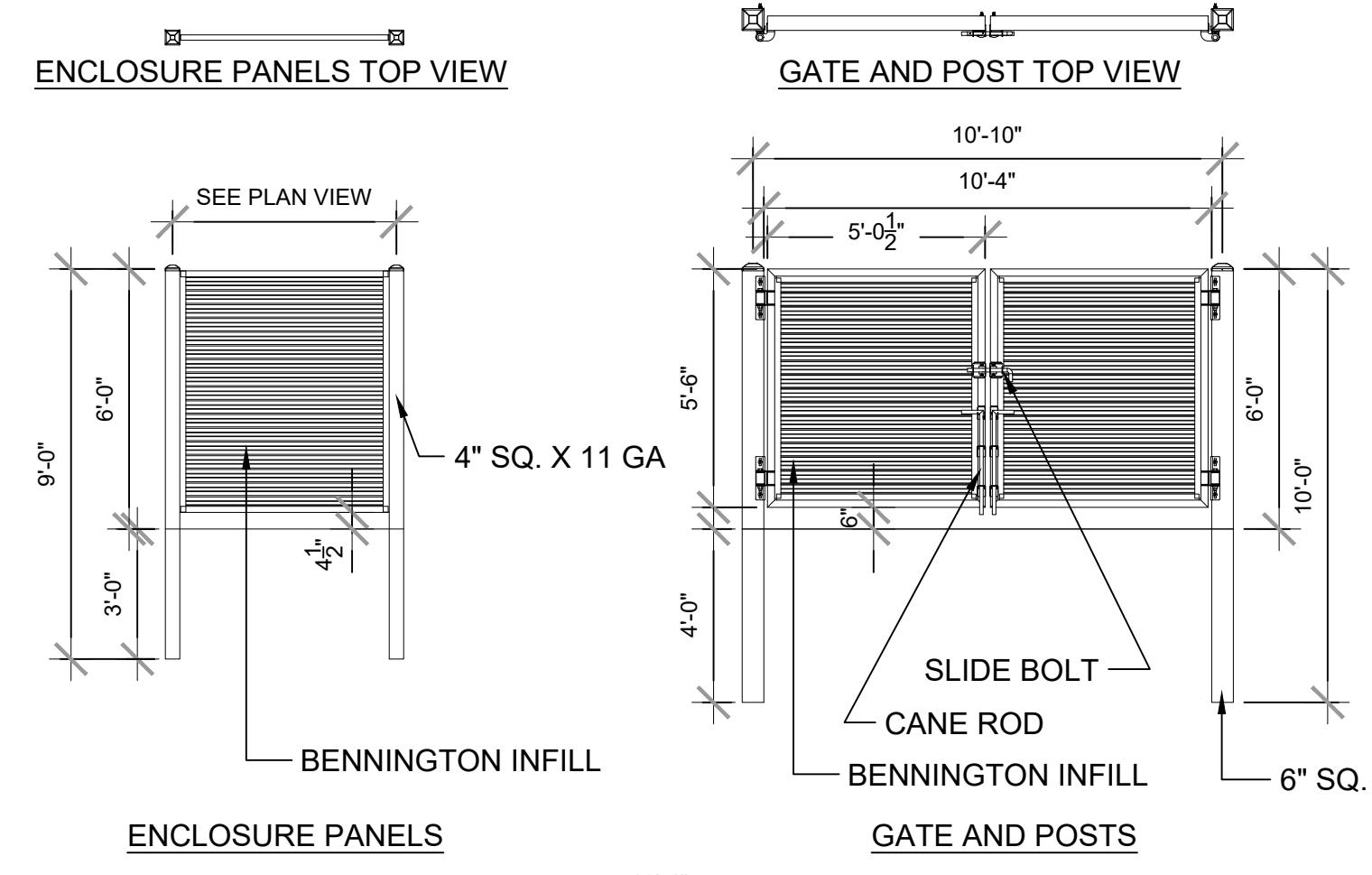
⑦ FLAGPOLE SECTION
3/4" = 1'-0"



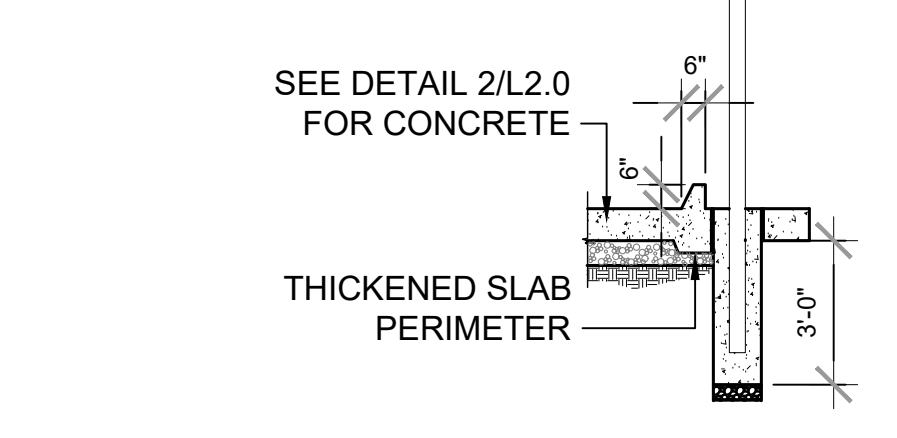
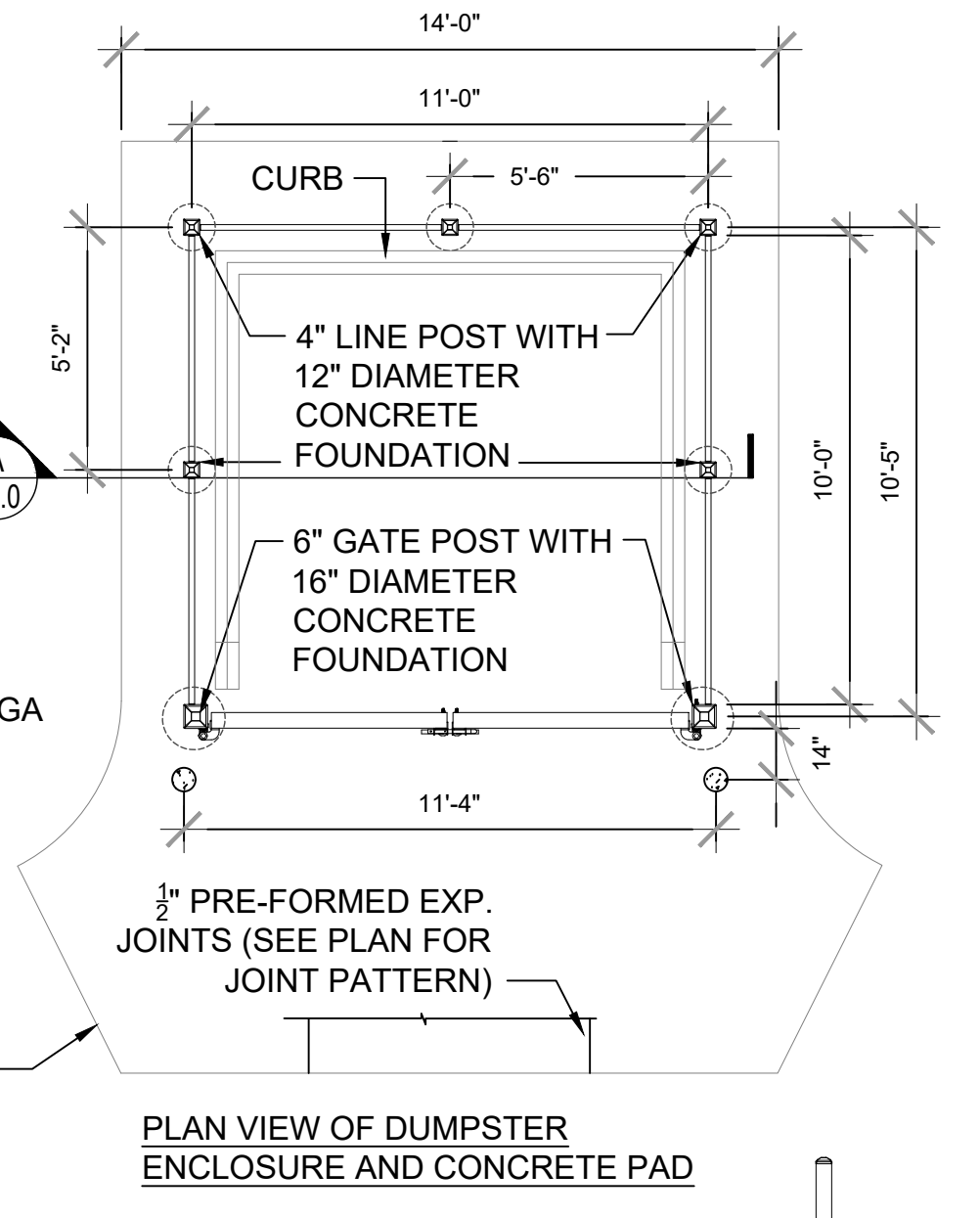
⑧ GRAVEL STRIP DETAIL
1" = 1'-0"

- NOTES:
- 16' SECTIONS TO INCLUDE (5) 12" ALUMINUM STAKES
 - COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING. FINISH GRADE TO BE 1/2" BELOW TOP OF EDGING.
 - CORNERS: CUT BASE OF MATERIAL TO FORM A CONTINUOUS CORNER
 - PERMALOC PERMASTRIP AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND, MI OR EQUAL

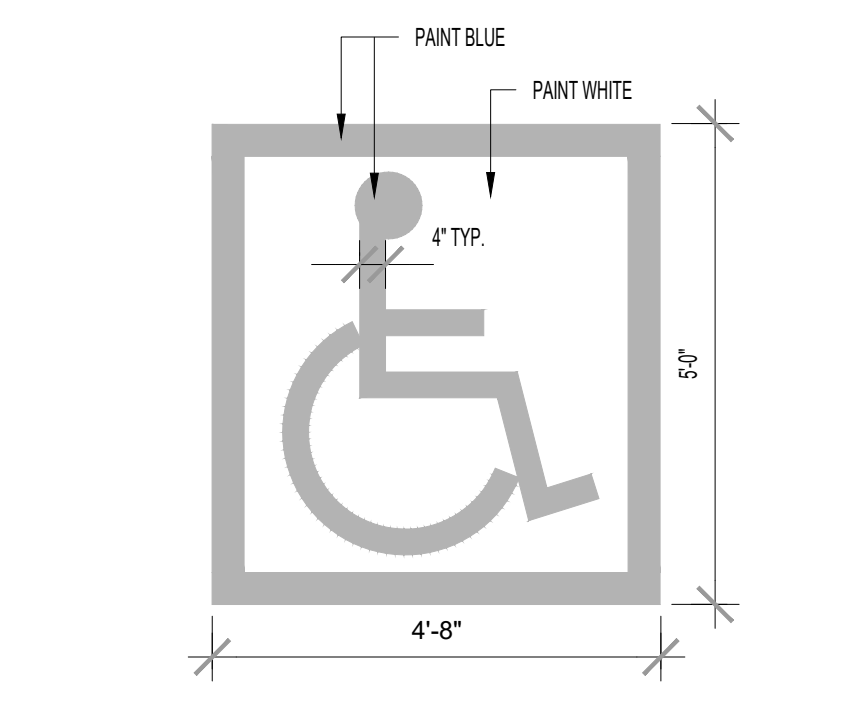
Note:
Notes referring to Item # are referencing ODOT Item# and are from "State of Ohio Department of Transportation, Columbus Ohio Construction and Material Specifications" available at www.dot.state.ohio.gov



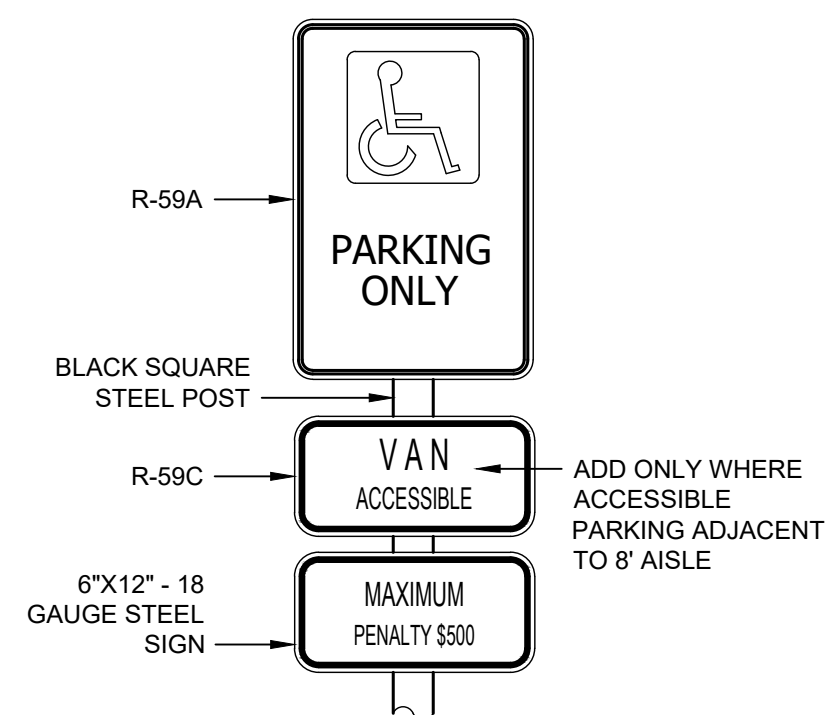
⑫ DUMPSTER ENCLOSURE AND PAVEMENT
1/4" = 1'-0"



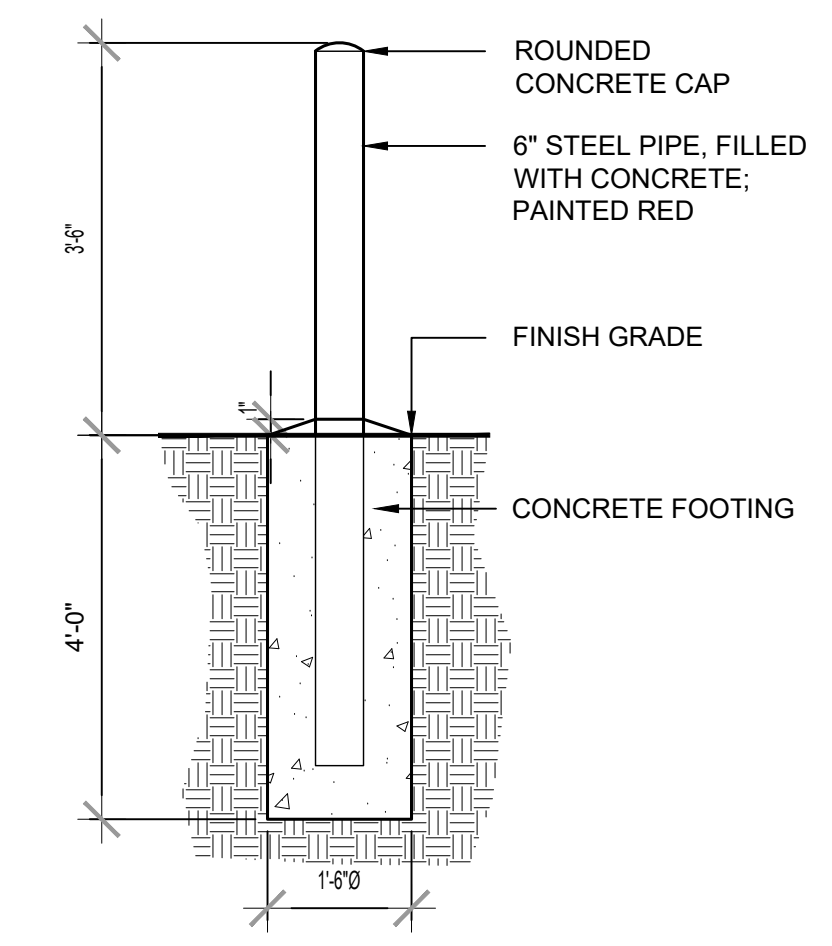
⑬ PAVEMENT WITH CURB AND THICKENED SLAB
1/4" = 1'-0"



⑨ HANDICAP PARKING LOGO
1/2" = 1'-0"



⑩ RESERVED PARKING FOR HANDICAPPED SIGNS
1/4" = 1'-0"



⑪ TYPICAL BOLLARD
1/2" = 1'-0"

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SECTION 329200 - TURF AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Seeding, Hydroseeding, Erosion control materials

B. Related Sections:

1. Section 311000 "Site Clearing" for topsoil stripping and stockpiling.
2. Section 312000 "Earth Moving" for excavation, filling and backfilling, and rough grading.
3. Section 329300 "Plants" for border edgings.

1.3 DEFINITIONS

A. Duff Layer: The surface layer of native topsoil that is composed of mostly decayed leaves, twigs, and detritus.

B. Finish Grade: Elevation of finished surface of planting soil.

C. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

D. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.

E. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

F. Planting Soil: Standardized topsoil, existing, native surface topsoil, existing, in-place surface soil; imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.

G. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or top surface of a fill or backfill before planting soil is placed.

H. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.

I. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

1. Pesticides and Herbicides: Include product label and manufacturer's application instructions specific to this Project.

1.5 INFORMATIONAL SUBMITTALS

A. Certification of Grass Seed: From seed vendor for each grass-seed mono stand or mixture stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

B. Qualification Data: For qualified landscape Installer.

C. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required initial maintenance periods.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape Installer whose work has resulted in successful turf establishment.

1. Professional Membership: Installer shall be a member in good standing of either the Professional Land Care Network or the American Nursery and Landscape Association.
2. Experience: Three years' experience in turf installation in addition to requirements in Section 014000 "Quality Requirements."
3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
4. Pesticide Applicator: State licensed, commercial.

B. Pre-installation Conference: Conduct conference at Project Site.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws, as applicable.

B. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk fertilizers, lime and soil amendments with appropriate certificates.

1.8 PROJECT CONDITIONS

A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of planting completion.

1. Spring Planting: March 15 through April 15
2. Fall Planting: August 15 through October 1

B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

1.9 MAINTENANCE SERVICE

A. Initial Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until acceptable turf is established but for not less than the following periods:

1. Seeded Turf: Not less than 60 days from date of planting completion.
 - a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.

PART 2 - PRODUCTS

2.1 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.

B. Seed Species: State-certified seed of grass species as follows:

- Green Velvet - 3 Seed Sports Mix 5 or equal
- 80% Elite Turf Type Tall Fescue
- 10% Elite Kentucky Bluegrass
- 10% Elite Perennial Ryegrass

2.2 TURFGRASS SOD (While seed is specified, any sod used for patching must follow this section)

A. Turfgrass Sod: Number 1 Quality/Premium, including limitations on thatch, weeds, diseases, nematodes, and insects, complying with "Specifications for Turfgrass Sod Materials" in TPI's "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.

B. Turfgrass Species: Sod of grass species with same blend of grasses as specified for respective seeded areas, with not less than 95 percent germination, not less than 85 percent pure seed, and not more than .5 percent weed seed. Sod shall be machine cut to supplier's standard width and length and 5/8" thick. Measurement for thickness shall exclude top growth and thatch.

2.3 INORGANIC SOIL AMENDMENTS

A. Lime: Apply ground agricultural limestone if necessary, at the rate determined by Contractor's soil tests to adjust pH of topsoil at no less than 6.5

2.4 ORGANIC SOIL AMENDMENTS

A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4 inch sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:

1. Organic Matter Content: 50-60 percent of dry weight.
- B. Sphagnum Peat: Partially decomposed sphagnum peat moss, finely divided or of granular texture, with a pH range of 3.4 to 4.8.
- C. Wood Derivatives: Decomposed, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture and free of chips, stones, sticks, soil, or toxic materials.
- D. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

2.5 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorus, and potassium in the following composition:

1. Composition: 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorus, and 2 percent potassium, by weight.
2. Composition: Nitrogen, phosphorus, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:

1. Composition: 20 percent nitrogen, 10 percent phosphorus, and 10 percent potassium, by weight.
2. Composition: Nitrogen, phosphorus, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.6 PLANTING SOILS

A. Top Soil: ASTM D 5268 topsoil, with pH range of 5.5 to 7, a minimum of 6 percent organic material content; free of stones 3/4 inch or larger in any dimension and other extraneous materials harmful to plant growth. Mix ASTM D 5268 topsoil with soil amendments and fertilizers, as needed to produce planting soil.

B. Planting Soil: Existing, native surface topsoil formed under natural conditions with the duff layer retained during excavation process and stockpiled on-site. Verify suitability of native surface topsoil to produce viable planting soil. Clean soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.

1. Supplement with another planting soil when quantities are insufficient.
2. Mix existing, native surface topsoil with soil amendments and fertilizers in to produce planting soil.

C. Planting Soil: Existing, in-place surface soil. Verify suitability of existing surface soil to produce viable planting soil. Remove stones, roots, plants, sod, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth. If necessary, mix surface soil with the soil amendments to produce planting soil.

D. Planting Soil: Imported topsoil or manufactured topsoil from off-site sources. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 4 inches deep.

1. Additional Properties of Imported Topsoil or Manufactured Topsoil: Screened and free of stones 1 inch or larger in any dimension; free of roots, plants, sod, clods, clay lumps, pockets of coarse sand, paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials harmful to plant growth; free of obnoxious weeds and invasive plants including quackgrass, Johnsongrass, poison ivy, nutsedge, nimblewill, Canada thistle, bindweed, bentgrass, wild garlic, ground ivy, perennial sorrel, and bromegrass; not infested with nematodes, grubs, other pests, pest eggs, or other undesirable organisms and disease-causing plant pathogens; friable and with sufficient structure to give good tilth and aeration. Continuous, air-filled, pore-space content on a volume/volume basis shall be at least 15 percent when moisture is present at field capacity. Soil shall have a field capacity of at least 15 percent on a dry weight basis.

2.7 MULCHES

A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.

B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic and free of plant-growth or germination inhibitors; with a maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.

C. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.

D. Asphalt Emulsion: ASTM D 977, Grade SS-1; nontoxic and free of plant-growth or germination inhibitors.

2.8 PESTICIDES

A. General: Pesticide, registered and approved by EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Non-Selective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Non-Selective): Effective for controlling weed growth that has already germinated.

2.9 EROSION-CONTROL MATERIALS

A. Erosion-Control Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended steel wire staples, 6 inches long.

B. Erosion-Control Fiber Mesh: Biodegradable burlap or spun-coir mesh, a minimum of 0.92 lb/sq. yd., with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches long.

C. Erosion-Control Mats: Cellular, non-biodegradable slope-stabilization mats designed to isolate and contain small areas of soil over steeply sloped surface, of 3-inch nominal mat thickness. Include manufacturer's recommended anchorage system for slope conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to be planted for compliance with requirements and other conditions affecting performance.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Do not mix or place soils and soil amendments in frozen, wet, or muddy conditions.
3. Suspend soil spreading, grading, and tilling operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
4. Uniformly moisten excessively dry soil that is not workable and which is too dusty.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

1. Protect adjacent and adjoining areas from hydro-seeding and hydro-mulching overspray.
2. Protect grade stakes set by others until directed to remove them.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways. In addition, cover seeded slopes where grade is 1:4 or steeper with erosion control fabric. (See Section 3.5: Seeding)

3.3 TURF AREA PREPARATION

A. Limit turf subgrade preparation to areas to be planted.

B. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 4 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

1. Spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil.

a. Delay mixing fertilizer with planting soil if planting will not proceed within a few days.

b. Mix lime with dry soil before mixing fertilizer.

2. Spread topsoil to a depth of 4 inches but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.

- a. Spread approximately 1/2 the thickness of planting soil over loosened subgrade. Mix thoroughly into top 2 inches of subgrade. Spread remainder of planting soil.
- b. Reduce elevation of planting soil to allow for soil thickness of sod.

C. Unchanged Subgrades: If turf is to be planted in areas unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface soil as follows:

1. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
2. Loosen surface soil to a depth of at least 6 inches Apply soil amendments and fertilizers according to planting soil mix proportions and mix thoroughly into top 4 inches of soil. Till soil to a homogeneous mixture of fine texture.
 - a. Apply fertilizer directly to surface soil before loosening.
3. Remove stones larger than 1 inch in any dimension and sticks, roots, trash, and other extraneous matter.
4. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property.

D. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.

E. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

F. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.4 PREPARATION FOR EROSION-CONTROL MATERIALS

A. Prepare area as specified in "Turf Area Preparation" Article.

B. For erosion-control mats, install planting soil in two lifts, with second lift equal to thickness of erosion-control mats. Install erosion-control mat and fasten as recommended by material manufacturer.

C. Fill cells of erosion-control mat with planting soil and compact before planting.

D. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.

E. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.5 SEEDING

A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.

1. Do not use wet seed or seed that is moldy or otherwise damaged.
2. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.

B. Sow seed at a total rate of 3 to 4 lb/1000 sq. ft.

C. Rake seed lightly into top 1/4 inch of soil, roll lightly, and water with fine spray.

D. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets and 1:6 with erosion-control fiber mesh installed and stapled according to manufacturer's written instructions.

E. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly to form a continuous blanket 1-1/2 inches in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.

3.6 HYDROSEEDING

A. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application. This slurry shall then be uniformly applied to the prepared seed bed.

3.7 TURF MAINTENANCE

A. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.

1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches.

1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
2. Water turf with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.

C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain 2 1/2" grass height.

D. Turf Post-fertilization: Apply fertilizer after initial mowing and when grass is dry.

1. Use fertilizer that will provide actual nitrogen of at least 1 lb/1000 sq. ft. (but no more than 1-1/2 lb/1000 sq. ft.) to turf area.

3.8 SATISFACTORY TURF

A. Turf installations shall meet the following criteria as determined by Architect:

1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
2. Use specified materials to reestablish turf that does not comply with requirements and continue maintenance until turf is satisfactory.

3.9 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents in accordance with requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Post-Emergent Herbicides (Selective and Non-Selective): Apply only as necessary to treat already-germinated weeds and in accordance with manufacturer's written recommendations.

3.10 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.

C. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION 329200



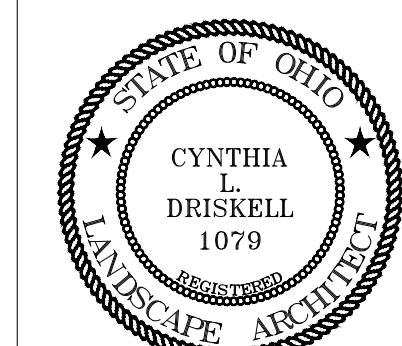
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REVISIONS
PLAN APPROVAL / BIDDING

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
CLD	JF

TURF SPECIFICATIONS

L3.1



SECTION 329300 - PLANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Plants, Planting soils, Tree stabilization, landscape edging

B. Related Sections:

- 1. Section 015639 "Temporary Tree and Plant Protection" for protecting, trimming, pruning, repairing, and replacing existing trees to remain that interfere with, or are affected by, execution of the Work.
2. Section 311000 "Site Clearing" for protection of existing trees and plantings, topsoil stripping and stockpiling, and site clearing.
3. Section 312000 "Earth Moving" for excavation, filling, and rough grading and for subsurface aggregate drainage and drainage backfill materials.
4. Section 329200 "Turf and Grasses" for turf (lawn) and meadow planting, hydroseeding, and erosion-control materials.
5. Section 334600 "Subdrainage" for below-grade drainage of landscaped areas, paved areas, and wall perimeters.

1.3 DEFINITIONS

- A. Backfill: The earth used to replace or the act of replacing earth in an excavation.
B. Balled and Burlapped Stock: Plants dug with firm, natural balls of earth in which they were grown, wrapped with burlap, tied, rigidly supported, and drum laced with twine with the root flare visible at the surface of the ball as recommended by ANSI Z60.1.
C. Balled and Potted Stock: Plants dug with firm, natural balls of earth in which they are grown and placed, unbroken, in a container.
D. Bare-Root Stock: Plants with a well-branched, fibrous-root system developed by transplanting or root pruning, with soil or growing medium removed, and with not less than minimum root spread according to ANSI Z60.1 for type and size of plant required.
E. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required.
F. Fabric Bag-Grown Stock: Healthy, vigorous, well-rooted plants established and grown in-ground in a porous fabric bag with well-established root system reaching sides of fabric bag. Fabric bag size is not less than diameter, depth, and volume required by ANSI Z60.1 for type and size of plant.
G. Finish Grade: Elevation of finished surface of planting soil.
H. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.
I. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
J. Pests: Living organisms that occur where they are not desired, or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
K. Planting Area: Areas to be planted.
L. Planting Soil: Standardized topsoil; existing, native surface topsoil; existing, in-place surface soil; imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
M. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees, shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.
N. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.
O. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.
P. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
Q. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.
1. Plant Materials: Include quantities, sizes, quality, and sources for plant materials.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified landscape Installer. Include list of similar projects completed by Installer demonstrating Installer's capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.
B. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:
1. Manufacturer's certified analysis of standard products.
C. Material Test Reports: Existing native surface topsoil. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of plants during a calendar year. Submit before start of required maintenance periods.
D. Warranty: Sample of special warranty.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape Installer whose work has resulted in successful establishment of plants.
1. Experience: Three years' experience in landscape installation in addition to requirements in Section 014000 "Quality Requirements."
2. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
B. Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1. Plant stock must originate in same hardness zone as project site.
C. Measurements: Measure according to ANSI Z60.1. Do not prune to obtain required sizes.
1. Trees and Shrubs: Measure with branches and trunks or canes in their normal position. Take height measurements from or near the top of the root flare for field-grown stock and container grown stock. Measure main body of tree or shrub for height and spread; do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size.
2. Other Plants: Measure with stems, petioles, and foliage in their normal position.
D. Plant Material Observation: Architect may observe plant material either at place of growth or at site before planting for compliance with requirements for genus, species, variety, cultivar, size, and quality. Architect retains right to observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.
1. Notify Architect of sources of planting materials 7 days in advance of delivery to site.
1.6 DELIVERY, STORAGE, AND HANDLING
E. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws if applicable.
F. Bulk Materials:
1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants..
G. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.
1. Heel-in bare-root stock. Soak roots that are in dry condition in water for two hours. Reject dried-out plants.
2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
3. Do not remove container-grown stock from containers before time of planting.
4. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly-wet condition.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual grade elevations, service and utility locations, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.
B. Interruption of Existing Services or Utilities: Do not interrupt services or utilities to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary services or utilities according to requirements indicated:
1. Notify Owner no fewer than two days in advance of proposed interruption of each service or utility.
C. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
1. Spring Planting: March 1 to June 1
2. Fall Planting: Sept 1 to October 15
D. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions and warranty requirements.
E. Coordination with Turf Areas (Lawns): Plant trees, shrubs, and other plants after finish grades are established and before planting turf areas unless otherwise indicated.
1. When planting trees, shrubs, and other plants after planting turf areas, protect turf areas, and promptly repair damage caused by planting operations.

1.8 WARRANTY

- A. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner, or incidents that are beyond Contractor's control.
b. Structural failures including plantings falling or blowing over.
c. Faulty performance of tree stabilization and/or edgings.
2. Warranty Periods from Date of Planting Completion.
a. Trees, Shrubs, Vines, and Ornamental Grasses 12 months.
b. Ground Covers, Biennials, Perennials, and Other Plants: 12 months.
3. Include the following remedial actions as a minimum:
a. Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
b. Replace plants that are more than 25 percent dead or in an unhealthy condition at end of warranty period.
c. A limit of one replacement of each plant will be required except for losses or replacements due to failure to comply with requirements.
d. Provide extended warranty for period equal to original warranty period, for replaced plant material.

1.9 MAINTENANCE SERVICE

A. Initial Maintenance Service for Trees and Shrubs: Provide maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after plants are installed and continue until plantings are acceptably healthy and well established but for not less than maintenance period.

PART 2 - PRODUCTS

2.1 PLANT MATERIAL

- A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant Schedule or Plant Legend shown on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and discoloration.
1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; or with stem girdling roots will be rejected.
2. Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.
B. Provide plants of sizes, grades, and ball or container sizes complying with ANSI Z60.1 for types and form of plants required. Plants of a larger size may be used if acceptable to Architect, with a proportionate increase in size of roots or balls.
C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which shall begin at root flare according to ANSI Z60.1. Root flare shall be visible before planting.
D. Labeling: Label each plant of each variety, size, and caliper with a securely attached, waterproof tag bearing legible designation of common name and full scientific name, including genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant as shown on Drawings.
E. If formal arrangements or consecutive order of plants is shown on Drawings, select stock for uniform height and spread, and number the labels to assure symmetry in planting.

2.2 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.3 PLANTING SOILS

A. Top Soil: Provide fertile, friable, surface soil, reasonably free of subsoil, clay lumps, brush, weeds and other litter and free of roots, stumps, stones, and other extraneous or toxic matter harmful to plant growth.

2.4 MULCHES

- A. Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:
1. Type: Shredded hardwood Size Range: No sticks larger than 1/2" diameter Color: Natural dark brown no died mulch.

2.5 TREE STABILIZATION MATERIALS

- A. Stakes and Guys:
1. Upright and Guy Stakes: Rough-sawn, sound, new hardwood free of knots, holes, cross grain, and other defects, 2" x 2" x 8'
2. Wood Deadmen: Timbers measuring 8 inches in diameter and 48 inches long, treated with specified wood pressure-preservative treatment.
3. Flexible Ties: Wide rubber or elastic bands or straps of length required to reach stakes or turnbuckles.
4. Tree-Tie Webbing: UV-resistant polypropylene or nylon webbing with brass grommets.
5. Guy Cables: Galvanized steel, #9 gauge.
6. Hose: High quality braided rubber or plastic hose, 3/4" diameter and suitable length.

2.6 LANDSCAPE EDGING

A. Spade Formed Edge, see section 3.9.

2.7 MISCELLANEOUS PRODUCTS

A. Burlap: Non-synthetic, biodegradable.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive plants for compliance with requirements and conditions affecting installation and performance.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.
B. Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations when requested, and obtain Architect's acceptance of layout before excavating or planting. Make minor adjustments as required.
C. Apply antidesiccant to trees and shrubs using power spray to provide an adequate film over trunks (before wrapping), branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
1. If deciduous trees or shrubs are moved in full leaf, spray with antidesiccant at nursery before moving and again two weeks after planting.
D. Wrap trees and shrubs with burlap fabric over trunks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.

3.3 PLANTING AREA ESTABLISHMENT

- A. Loosen subgrade of planting areas to a minimum depth of 6 inches. Remove stones larger than 3/4 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
1. Apply fertilizer directly to subgrade before loosening.
2. Spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil.
3. Spread planting soil to a depth of 6 inches but not less than required to meet finish grades after natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.
a. Spread approximately one-half the thickness of planting soil over loosened subgrade. Mix thoroughly into top 2 inches of subgrade. Spread remainder of planting soil.
B. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.4 EXCAVATION FOR TREES AND SHRUBS

- A. Planting Pits and Trenches: Excavate circular planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are not acceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.
1. Excavate approximately three times as wide as ball diameter for balled and burlapped stock.
2. Excavate at least 12 inches wider than root spread and deep enough to accommodate vertical roots for bare-root stock.
3. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
4. Maintain required angles of repose of adjacent materials. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
5. Maintain supervision of excavations during working hours.
6. Keep excavations covered or otherwise protected after working hours.
7. If drain tile is shown on Drawings or required under planting areas, excavate to top of porous backfill over tile.
B. Subsoil and topsoil removed from excavations may be used as planting soil.
C. Obstructions: Notify Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations or if unexpected water seepage or retention in tree or shrub planting pits.
D. Fill excavations with water and allow to percolate away before positioning trees and shrubs.

3.5 TREE, SHRUB, AND VINE PLANTING

- A. Before planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.
B. Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.
C. Set balled and burlapped stock plumb and in center of planting pit or trench with root flare 10% of fill depth higher than adjacent finish grades.
1. Use topsoil for backfill.
2. After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Continue backfilling process. Water again after placing and tamping final layer of soil.
D. Set and support bare-root stock in center of planting pit or trench with root flare 1 inch above adjacent finish grade.
1. Use topsoil for backfill.
2. Spread roots without tangling or turning toward surface, and carefully work backfill around roots by hand. Puddle with water until backfill layers are completely saturated. Plumb before backfilling, and maintain plumb while working backfill around roots and placing layers above roots.
3. Continue backfilling process. Water again after placing and tamping final layer of soil.
E. When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.

3.6 GROUND COVER AND PLANT PLANTING

- A. Set out and space ground cover and plants other than trees, shrubs, and 12 inches apart in even rows with triangular spacing.
B. Use topsoil for backfill.
C. Prepare entire plant bed prior to digging holes for individual plants.
D. For rooted cutting plants supplied in flats, plant each in a manner that will minimally disturb the root system but to a depth not less than two nodes.
E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
F. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
G. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

3.8 PLANTING AREA MULCHING

A. Mulch backfilled surfaces of planting areas and other areas indicated. Within 2 days after planting, cover all tree shrub and ground cover pits and beds with a minimum 3" layer of mulch. Limit of mulch for trees shall be area of pit, and for shrubs and ground cover in beds, entire area of bed.

3.9 EDGING INSTALLATION

A. Shovel-Cut Edging: Separate mulched areas from turf areas with a 45-degree, 4- to 6-inch deep, shovel-cut edge, maintain smooth curves, no broken-back curves.

I3.10 PLANT MAINTENANCE (SEE GENERAL NOTES FOR MAINTENANCE PERIOD LENGTH - SUPERCEDES ANY REFERENCE TO MAINTENANCE PERIOD IN SPECS)

- A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.
B. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.
C. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

3.11 CLEANUP AND PROTECTION

- A. During planting, keep adjacent paving and construction clean and work area in an orderly condition.
B. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.
C. After installation and inspection, remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site.

END OF SECTION 329300

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NEW CONSTRUCTION OF FIRE STATION 2 CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO LANDSCAPE ARCHITECT
CYNTHIA L. DRISKELL 1079
JACYN DESIGN GROUP

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REVISIONS PLAN APPROVAL / BIDDING

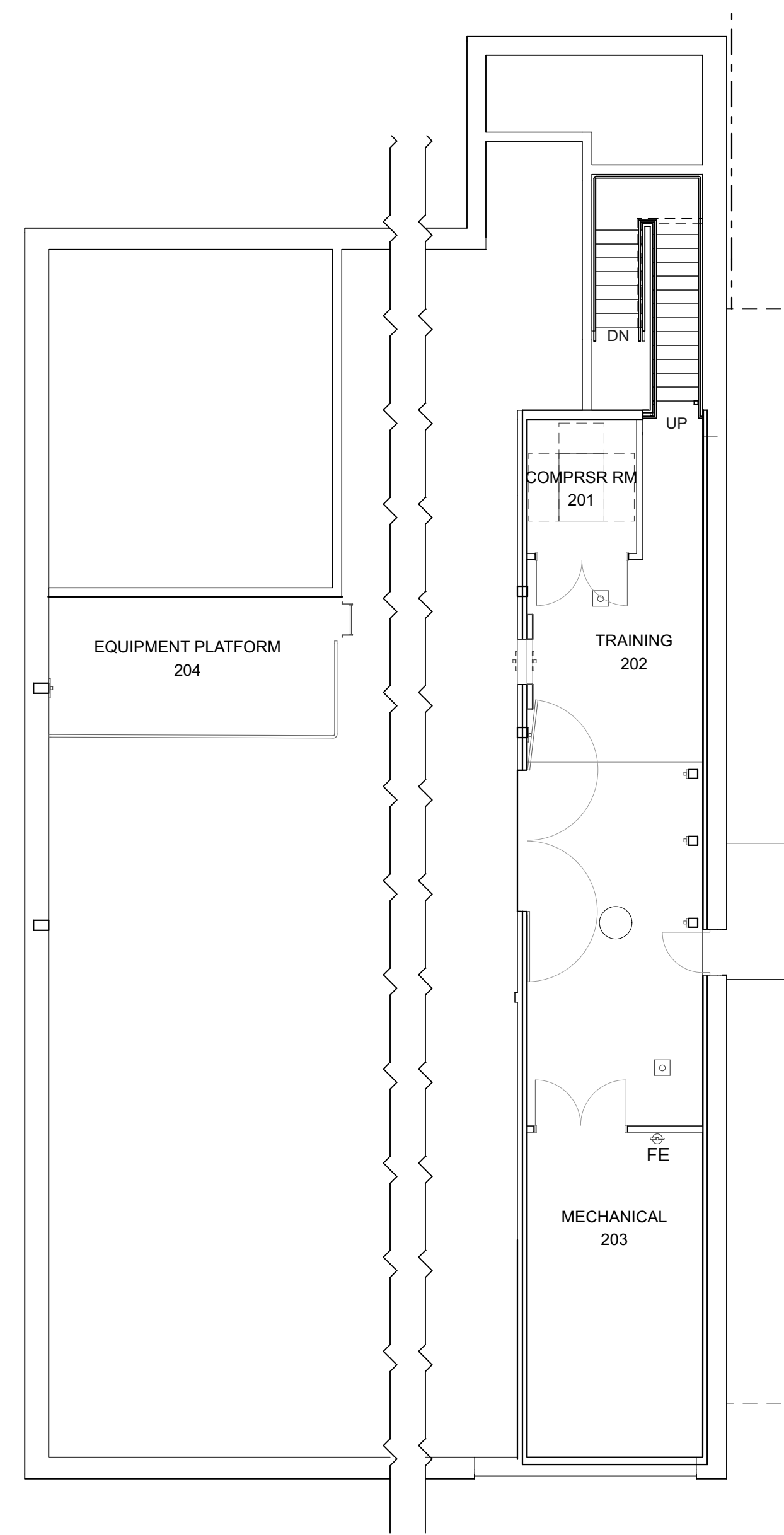
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PLANTING SPECIFICATIONS

L3.2



PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A1.1.1: CODE AND STORM SHELTER INFORMATION - CODE PLAN FILENAME: 231103 Fire Station CD FILE PATH: B:\Model: freytaginc - BIMcloud Software as a Service\231103 Fire Station CD



2
A1.1 **MEZZANINE**
SCALE: 1/8" = 1'-0"

OHIO BUILDING CODE INFORMATION

PROJECT DESCRIPTION:
PROJECT CONSISTS OF CONSTRUCTION OF NEW FIRE STATION

BUILDING DESCRIPTION:
BUILDING IS CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS: FIRE RETARDANT TREATED WOOD TRUSSES AND ROOF SHEATHING (SEE CODE PLAN FOR LOCATION), STEEL TRUSSES WITH METAL DECK AND CONCRETE SLAB MEZZANINE/EQUIPMENT PLATFORM. LOAD BEARING MASONRY WALLS AT APPARATUS BAY. LOAD BEARING COLD FORMED METAL FRAMING WITH BRICK VENEER AND ACM PANEL SIDING FOR STATION LIVING/DORM/OFFICE AREA.

USE GROUP CLASSIFICATION: REFER TO USE GROUP PLAN ON THIS SHEET

TYPE OF CONSTRUCTION	NON SEPARATED MIXED USE AND OCCUPANCY (OBC 508.3) EXCEPTION 2	
	B SPRINKLERED	R-2 SPRINKLERED
ALLOWABLE HEIGHT TABLE 504.3	75'-0"	75'-0"
ALLOWABLE STORIES TABLE 504.4	4	5
ALLOWABLE AREA TABLE 506.2	92,000 SF	64,000 SF
ACTUAL HEIGHT	35'	24'-6"
ACTUAL STORIES	1	1
ACTUAL AREA	GROUND FLOOR (INCLUDING ENTRY & PATIO)	10,152 SF
	MEZZANINE	797 SF
	EQUIPMENT PLATFORM	188 SF
	TOTAL	11,137 SF
BUILDING TOTAL: 11,971 SF		

- * CODE EDITIONS 2017 OBC, 2017 OMC, 2017 OPC, NFPA-13-2016
 - * ATTIC SPACE IS NOT USED FOR LIVING PURPOSES, STORAGE OR FUEL FIRED EQUIPMENT AND ROOF CONSTRUCTION CONSISTS OF FIRE RETARDANT WOOD TRUSSES / FRAMING AND SHEATHING. THEREFORE, ATTIC DOES NOT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM PER NFPA 101, CHAPTER 32.2.3.5.7.2
- FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS**
- | TYPE / ELEMENT | REQUIREMENT |
|----------------------------------|--|
| TYPE I-B | 0 HRS |
| PRIMARY STRUCTURAL FRAME | 0 HRS |
| BEARING WALL INTERIOR / EXTERIOR | 0 HRS / ≥ 30 FT FIRE SEPARATION DISTANCE |
| NON BEARING EXTERIOR WALLS | 0 HRS / ≥ 30 FT FIRE SEPARATION DISTANCE (TABLE 602) |
| NON BEARING INTERIOR WALLS | 0 HRS |
| FLOOR CONSTRUCTION | 0 HRS |
| ROOF CONSTRUCTION | 0 HRS |

OCCUPANT LOAD
TABLE 1004.1.2

USE	AREA (SF)	OCCUPANCY	LOAD (OCC/SF)	TOTAL OCC
BUSINESS	1,627 SF	NET	100 SF/OCC =	16 OCC.
RESIDENTIAL R-2	834 SF	GROSS	50 SF/OCC =	17 OCC.
				ACTUAL OCC'S MAX
STORAGE S-2	8,686 SF	GROSS	300 SF/OCC =	28 OCC.

PLUMBING FIXTURE REQUIREMENTS
TABLE 2902.2
NOTE: ALL TOILET ROOMS ARE SINGLE OCCUPANT / NON GENDER SPECIFIC

	REQUIRED				PROVIDED
	STORAGE (S2)		BUSINESS (B) RESIDENTIAL (R-2)		
WATER CLOSETS	14 FEMALE	14 MALE	BASED ON OCCUPANT LOAD OF 31 16 FEMALE 16 MALE		
TOTAL LAVATORIES	FEMALE (1 PER 100)	MALE (1 PER 100)	FEMALE (1 PER 50)	MALE (1 PER 50)	5
TOTAL	FEMALE (1 PER 200)	MALE (1 PER 200)	MALE (1 PER 50)	MALE (1 PER 50)	4
DRINKING FOUNTAIN	1 PER 500	1	1 PER 100	1	1
SERVICE SINK		1		1	2

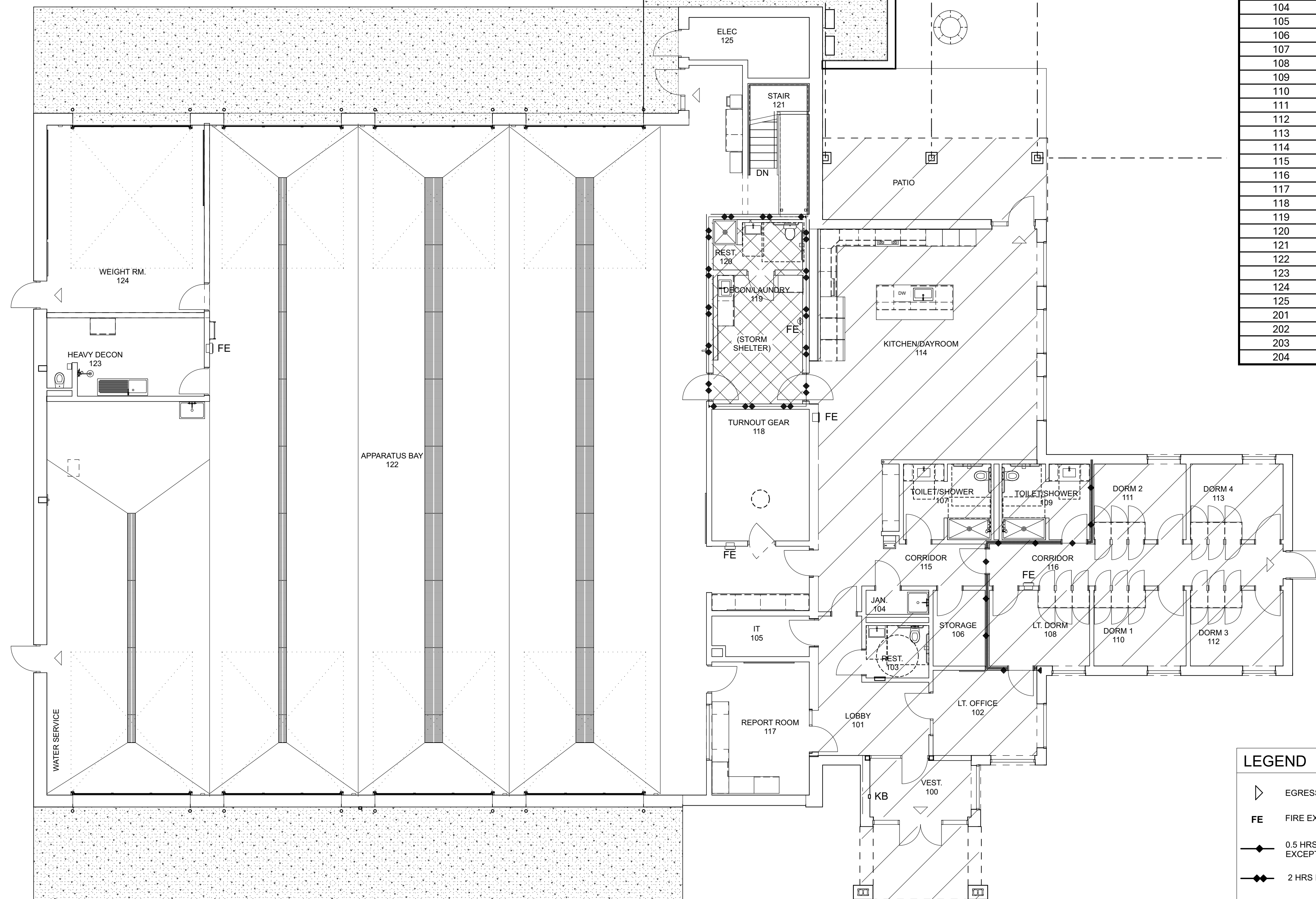
FIRE PROTECTION
OBC SECTION 903.2
BUILDING IS FULLY SUPPRESSED WITH AUTOMATIC SPRINKLER SYSTEM

FIRE ALARM SYSTEM
PROVIDED PER NFPA 72
MANUAL FIRE ALARM BOX NOT REQUIRED PER SECTIONS 907.2 EXCEPTION 2 AND 907.2.2 (USE GROUP B)

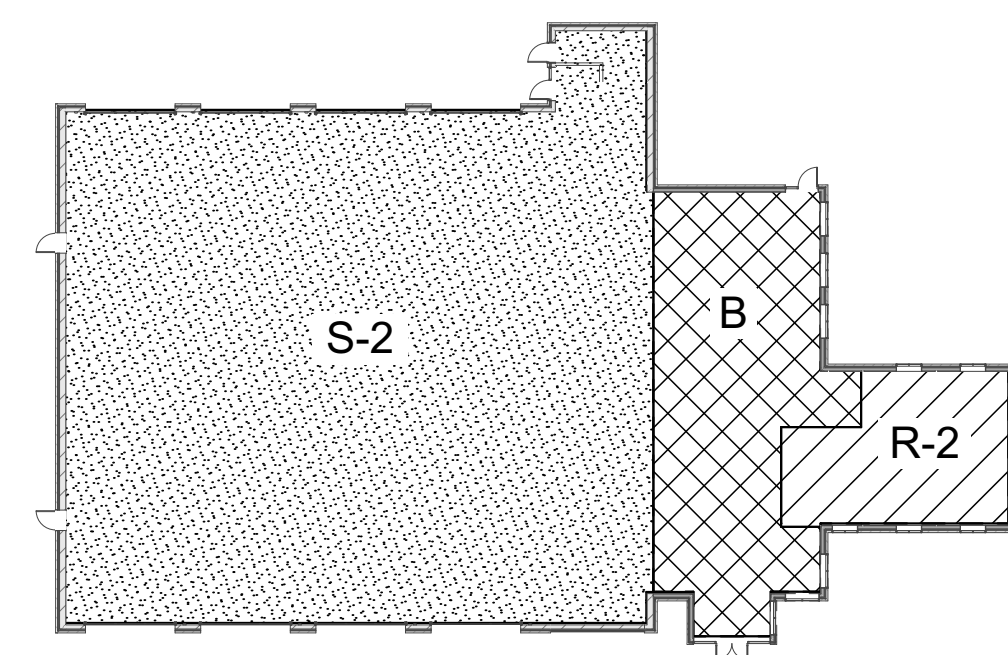
FIRE EXTINGUISHERS:
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER OBC 906. OCCUPANCY IS CONSIDERED ORDINARY HAZARD PER TABLE (906.3 (1))

OTHER PROVISIONS
AN EMERGENCY BACK-UP GENERATOR WILL SUPPLY ALL CRITICAL FUNCTIONS INCLUDING EGRESS LIGHTING

STRUCTURAL DESIGN LOADS:
REFER TO SHEET S1.0 FOR STRUCTURAL DESIGN LOADS.



1
A1.1 **CODE PLAN**
SCALE: 1/8" = 1'-0"



2
A1.1 **USE GROUP PLAN**
SCALE: 1" = 30'

ROOM NUMBER	ROOM NAME	AREA
100	VESTIBULE	84 SF
101	LOBBY	158 SF
102	LT. OFFICE	135 SF
103	RESTROOM	48 SF
104	JANITOR	26 SF
105	IT	56 SF
106	STORAGE	56 SF
107	TOILET/SHOWER	88 SF
108	LT. DORM	108 SF
109	TOILET/SHOWER	88 SF
110	DORM 1	99 SF
111	DORM 2	99 SF
112	DORM 3	99 SF
113	DORM 4	99 SF
114	KITCHEN/DAYROOM	718 SF
115	CORRIDOR	222 SF
116	CORRIDOR	176 SF
117	REPORT ROOM	187 SF
118	TURNOUT GEAR	190 SF
119	DECON/LAUNDRY	171 SF
120	RESTROOM	67 SF
121	STAIR	112 SF
122	APPARATUS BAY	5,844 SF
123	HEAVY DECON	176 SF
124	WEIGHT ROOM	423 SF
125	ELECTRIC	91 SF
201	COMPRESSOR ROOM	66 SF
202	TRAINING	473 SF
203	MECHANICAL	252 SF
204	EQUIPMENT PLATFORM	193 SF

LEGEND

- ▶ EGRESS
- FE FIRE EXTINGUISHER, REFER TO FLOOR PLAN A2.1
- ◆ 0.5 HRS. FIRE RESISTANCE RATED (PER 708.3 EXCEPTION 2) SEE WALL TYPE W3
- ◆◆ 2 HRS FIRE BARRIER - UL U90S
- ▨ FIRE RETARDANT TREATED WOOD TRUSSES AND ROOF SHEATHING
- ▩ STORM SHELTER, 2 HR RATED CEILING

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STATE OF OHIO
REGISTERED ARCHITECT
DANIEL J. FREYTAG
8533

Daniel J. Freytag
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

COMM. NUMBER	DATE
2207.02	11/22/24

DRAWN BY	CHECKED BY
AF/RS	DF

CODE PLAN

A1.1

STORM SHELTER INFORMATION

- GOVERNING CODES:
- OBC 2017, SECTION 423 STORM SHELTERS
 - ICC 500 2014

THIS SHELTER IS CLASSIFIED AS A COMMUNITY TORNADO SHELTER. THE SHELTER IS LOCATED ON THE MAIN FLOOR LEVEL OF THE FIRE STATION. THE SHELTER IS DESIGNED TO ACCOMMODATE 19 OCCUPANTS.

ICC 500 2014 CHAPTER 3: STRUCTURAL DESIGN CRITERIA

THE TORNADO SHELTER HAS BEEN DESIGNED PER THE REQUIREMENTS OF ICC 500 - 2014

- SHELTER DESIGN WIND SPEED, V(ult): 250 mph
- WIND EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT (Gcpi): +/- 0.55
- TOPOGRAPHICAL FACTOR: 1.0
- DIRECTIONALITY FACTOR: 1.0
- MINIMUM FOUNDATION CAPACITY REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS
- SHELTER INSTALLATION REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS

REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL NOTES AND DETAILS.

ICC 500 2014 CHAPTER 4: SITING

THE SHELTER IS NOT BEING CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING PER FEMA.

THE SITE IS LOCATED OUTSIDE OF ANY FLOOD PLAINS. THEREFORE, BASE FLOOR ELEVATION IS NOT APPLICABLE.

THE SHELTER FINISHED FLOOR ELEVATION IS 1037

THE SHELTER IS NOT LOCATED IN A PRECAUTIONARY ZONE. PER A SEARCH OF SARA TITLE III FACILITY REPORTS BY THE CLARK COUNTY LOCAL EMERGENCY RESPONSE COUNCIL, NO HAZARDOUS SUBSTANCE FACILITIES OR STORAGE WERE DISCOVERED.

ICC 500 2014 SECTION 501 COMMUNITY SHELTERS

TABLE 501.1.1 (TORNADO) - OCCUPANCY DENSITY

- 5 SF/STANDING OR SEATED MINIMUM
- 10 SF/WHEELCHAIR SPACE (1:200)

501.12.2 - ALTERNATIVE CALCULATION OF USABLE FLOOR AREA

GROSS AREA	239 SF
WALL AREA	21 SF
FIXED OBJECTS	59 SF
SINGLE OCC. RESTROOM	61 SF
NET CLEAR AREA	98 SF

MAXIMUM OCCUPANCY 17 OCCUPANTS + 1 WHEELCHAIR OCCUPANT

+ 1 OCCUPANT RESTROOM

DECLARED BUILDING OCCUPANCY = 19 OCCUPANTS

501.2 - NUMBER OF DOORS

- BASED ON SHELTER OCCUPANCY, ONLY ONE MEANS OF EGRESS IS REQUIRED.

501.4 - EMERGENCY ESCAPE OPENING

- A SECOND DOOR INTO THE SHELTER IS PROVIDED AS AN EMERGENCY ESCAPE.

501.3 - DIRECTION OF SWING

- DOOR SHALL SWING INTO THE SHELTER SPACE IN ACCORDANCE WITH OBC 2017.
- THE SECOND DOOR SHALL SWING IN.
- BOTH DOOR ASSEMBLIES TO BE TESTED AND LABELED IN ACCORDANCE WITH ICC 500 2014, CHAPTER 8 AND ASTM E361.

504 - SIGNAGE FOR COMMUNITY SHELTERS

- REFER TO DRAWINGS 1/A1.2 AND 2/A1.2 ON THIS SHEET FOR SIGNAGE LOCATIONS.
- REFER TO SIGNAGE DETAILS ON THIS SHEET FOR SIGNAGE DETAILS.

ICC 500 2014 CHAPTER 6: FIRE SAFETY

601.1 - FIRE SEPARATION

- ALL SHELTER WALLS ARE 2 HOUR FIRE RATED PARTITIONS. UL DESIGN NO. U905.
- SHELTER HORIZONTAL ASSEMBLY (CEILING/ROOF) IS A 2 HR. RATED ASSEMBLY. UL DESIGN NO. D219.

602 - FIRE EXTINGUISHERS

- A WALL HUNG FIRE EXTINGUISHER IS PROVIDED MEETING IBC AND NFPA 10 REQUIREMENTS.

ICC 500 2014 CHAPTER 7: SHELTER ESSENTIAL FEATURES AND ACCESSORIES

SECTION 702: TORNADO SHELTERS STORM SHELTER OCCUPANCY IS 19 PEOPLE.

TABLE 702.1

- THE STORM SHELTER UTILIZES A MECHANICAL VENTILATION SYSTEM TO PROVIDE OUTSIDE AIR TO THE SPACE.
- OMC 2017 REQUIRED VENTILATION RATE TO THE STORM SHELTER IS 53 CFM.
- THE STORM SHELTER HAS A CONSTANT EXHAUST RATE OF 100 CFM PROVIDED BY EF-3, THUS EXCEEDING THE CODE REQUIRED VENTILATION RATE.
- VENTILATION AIR IS PROVIDED VIA AN 8X8 TRANSFER AIR DUCT, DUCTED DIRECTLY FROM THE EXTERIOR OF THE BUILDING.
- THE FAN IS POWERED THROUGH THE STORM SHELTER UPS AND SHALL HAVE A MINIMUM RUNTIME OF 2 HOURS UPON BUILDING POWER LOSS. AN AUTOMATIC CONTROL DAMPER IS PROVIDED IN THE TRANSFER AIR DUCT THAT IS POWERED CLOSED. SPRING RETURN OPEN, DAMPER FAILS OPEN AND EF-3 WILL DRAW FRESH AIR INTO THE STORM SHELTER. A SECOND AUTOMATIC CONTROL DAMPER IS LOCATED IN THE RETURN AIR TRANSFER DUCT THAT IS POWERED OPEN. SPRING RETURN, FAIL CLOSED AND WILL CLOSE UPON BUILDING LOSS OF POWER. BOTH DAMPERS ARE POWERED FROM NORMAL BUILDING POWER.

ALL STORM SHELTER MECHANICAL SYSTEMS ARE AUTOMATIC IN OPERATION AND DO NOT REQUIRE OCCUPANT INTERACTION.

- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TABLE 702.2

SHELTER CAPACITY IS 19 PEOPLE

- ONE WATER CLOSET IS REQUIRED.
- THE LAVATORY IS NOT REQUIRED.
- HAND SANITIZER WILL BE STORED BY THE OWNER.

BASED ON 3 WATER CLOSET USES PER 8HR PERIOD PER OCCUPANT (FROM L.E.E.D.), IN A 2 HR PERIOD THAT WOULD EQUAL 3/4 USES PER PERSON. FOR 19 PEOPLE, 15 FLUSHES WILL BE REQUIRED.

THE TANK WILL BE FILLED ON ENTRY INTO THE SPACE AS A STORM SHELTER, SO ENOUGH WATER FOR 14 FLUSHES IS REQUIRED TO BE STORED IN THE SHELTER. AT 1.28 GALLONS PER FLUSH THAT WILL REQUIRE 18 GALLONS MINIMUM BE STORED IN THE DESIGNATED CABINET WITHIN THE STORM SHELTER FOR WATER CLOSET USE.

ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING. INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS.

REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

702.3 EMERGENCY LIGHTING

- LIGHTING FIXTURES WILL BE CONNECTED TO AN EMERGENCY BATTERY BACK-UP TO POWER LIGHTS IN SHELTER FOR A MINIMUM OF 2 HOURS UPON LOSS OF NORMAL POWER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- A MINIMUM OF (3) FLASHLIGHTS LUMENS EACH ARE TO BE STORED IN THE SHELTER.

STORM EVENT OPERATIONS PLAN

POSITION DESIGNATED PERSONNEL AT DOOR TO ENSURE THAT ONCE ALL OCCUPANTS ARE INSIDE SHELTER, DOOR REMAINS CLOSED AND LOCKED DURING THE ENTIRE STORM EVENT.

- OPENING DOOR DURING HIGH PRE-EVENT OR EVENT WINDS COULD DAMAGE THE DEVICE, REMOVE THE DEVICE, OR MAKE IT WHERE THE DEVICE CANNOT BE RE-CLOSED MAKING ALL SHELTER OCCUPANTS VULNERABLE TO THE WIND EVENT FOR WHICH THEY ARE SEEKING PROTECTION.

SHELTER OCCUPANTS ARE NOT TO PHYSICALLY CONTACT THE EXTERIOR WALLS OR OPENING PROTECTIVE DEVICES OF THE SHELTER.

- VERY LARGE POINT LOADS CREATED BY DEBRIS MAY BE EXERTED ON THE EXTERIOR WALL AND THIS KINETIC ENERGY MAY BE TRANSFERRED THROUGH THE SHELTER WALL WHICH COULD INJURE AN INDIVIDUAL THAT IS CONTACT WITH THE EXTERIOR WALL OF THE SHELTER.

DOOR OPERATION INSTRUCTIONS

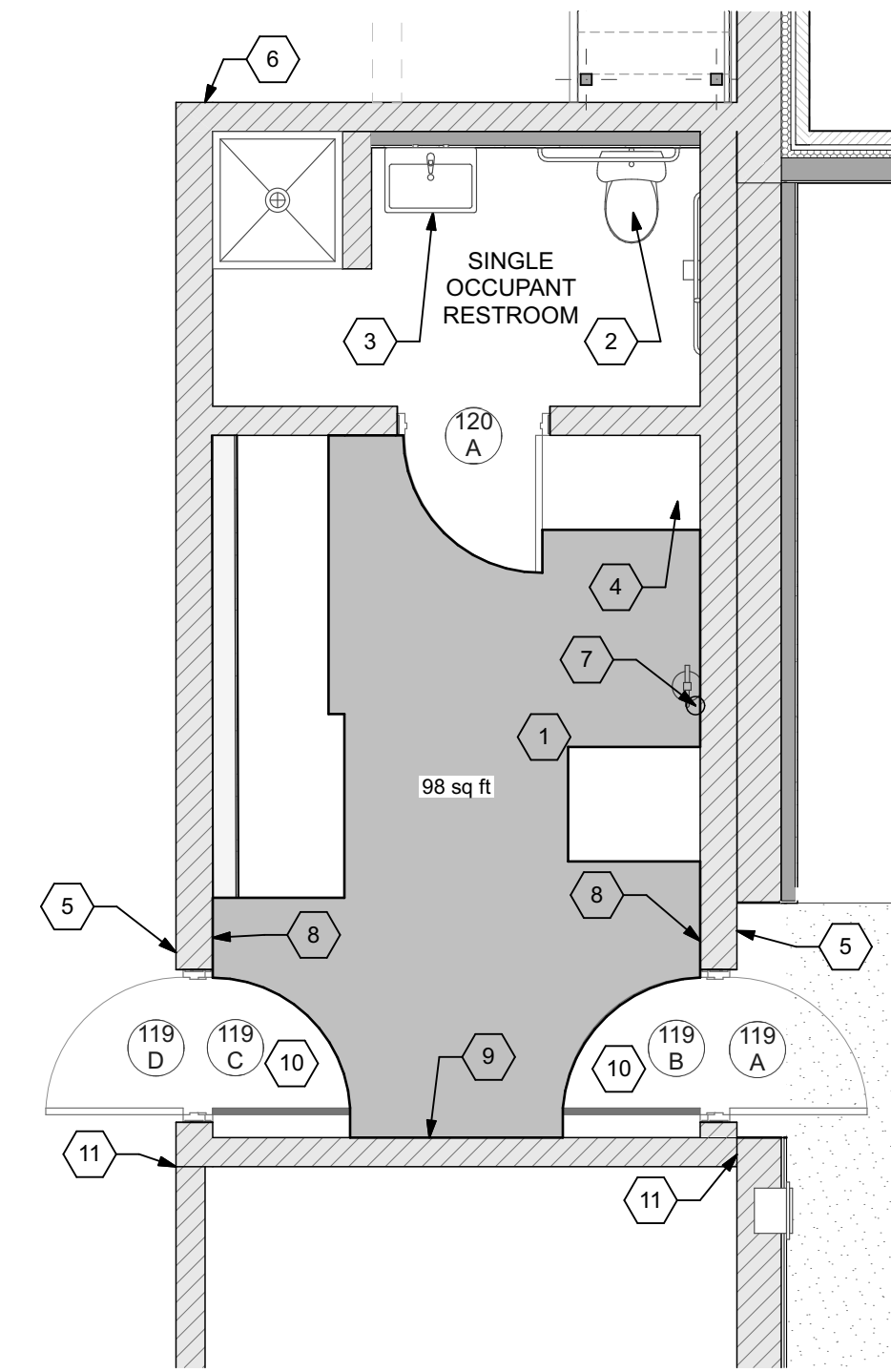
- LOCKED/UNLOCKED INDICATOR ON INSIDE OF DOOR
- LATCHBOLTS RETRACTED BY LEVER FROM EITHER SIDE.
- OUTSIDE LEVER IS MADE RIGID BY KEY OUTSIDE OR BY TURNING INSIDE THUMBTURN.
- KEY OUTSIDE UNLOCKS AND ENABLES OUTSIDE LEVER TO RETRACT ALL THREE LATCHES.
- ROTATING INSIDE LEVER RETRACTS LATCHBOLTS; OUTSIDE LEVER UNLOCKS WHEN THUMBTURN IS RETURNED TO VERTICAL POSITION.
- OUTSIDE LEVER REMAINS RIGID UNTIL THUMBTURN IS RETURNED TO VERTICAL OR UNLOCKED BY KEY.
- FREE EGRESS BY THE INSIDE LEVER.

MECHANICAL VENTILATION

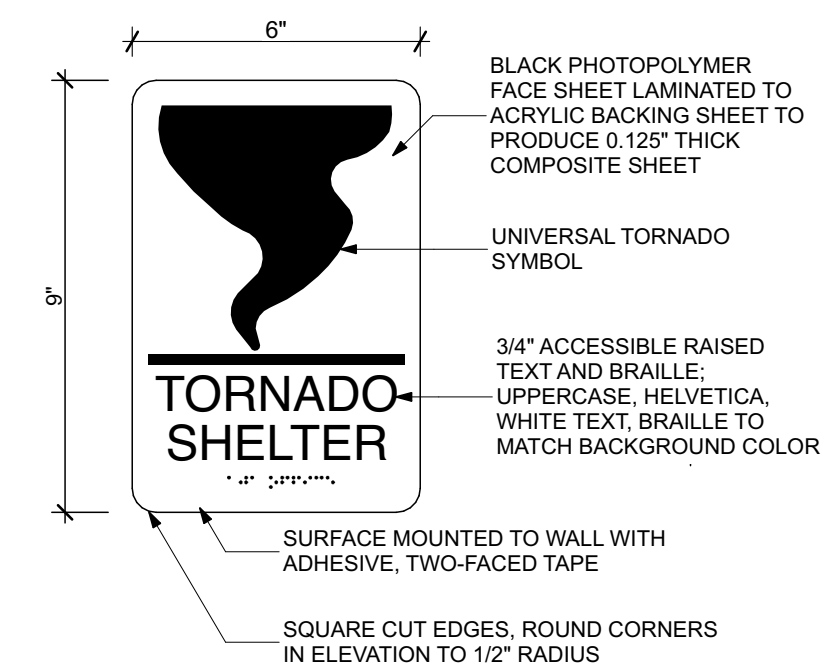
- THE STORM SHELTER IS EQUIPPED WITH A MECHANICAL VENTILATION SYSTEM TO PROVIDE OUTSIDE AIR DURING USE. THE RESTROOM EXHAUST FAN INSIDE OF THE SHELTER WILL PULL OUTSIDE AIR IN AND VENTILATE EXHAUST AIR OUT. THE FAN IS POWERED THROUGH THE STORM SHELTER UPS AND WILL CONTINUE TO OPERATE IF THE BUILDING LOSES NORMAL AND GENERATOR BACKUP POWER UNDER A TORNADO STRIKE. THE STORM SHELTER HAS A DEDICATED OUTSIDE AIR INTAKE DUCT AND CONTROL DAMPER THAT IS MANUALLY CONTROLLED THROUGH A TOGGLE SWITCH. UNDER NORMAL BUILDING OPERATION, THE SWITCH SHALL REMAIN IN THE "DAMPER CLOSED" POSITION TO STOP OUTSIDE AIR INFILTRATION COMING INTO THE CONDITIONED BUILDING. WHEN THE STORM SHELTER IS IN USE DURING A TORNADO EVENT, TURN THE SWITCH TO THE "DAMPER OPEN" POSITION TO PROVIDE OUTSIDE AIR TO THE STORM SHELTER. THE OUTSIDE AIR DAMPER HAS A FAIL-SAFE BUILT INTO AUTOMATICALLY OPEN THE DAMPER IN THE EVENT OF BUILDING NORMAL AND BACKUP POWER LOSS. IF THE CONTROL SWITCH IS NOT ACTUATED PRIOR TO NORMAL AND BACKUP POWER LOSS, THE DAMPER FAIL-SAFE WILL OPEN THE DAMPER.

STORM EVENT OPERATIONS PLAN

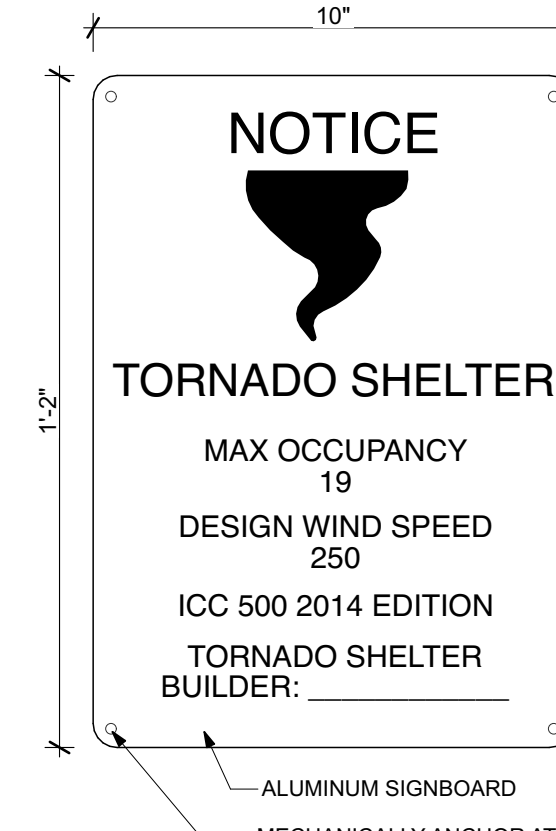
- 18 GALLONS OF POTABLE WATER FOR TOILET FLUSHING (TO BE STORED ON BOTTOM SHELF)
- 2 CASES OF 16 OZ. WATER BOTTLES (EQUATING 3 GALLONS) FOR DRINKING
- HAND SANITIZER
- FIRST AID KIT
- (3) FLASHLIGHTS WITH > 20 LUMENS OUTPUT EACH
- EVACUATION TOOLS
 - o HAMMER
 - o PRY BAR
 - o WORK GLOVES



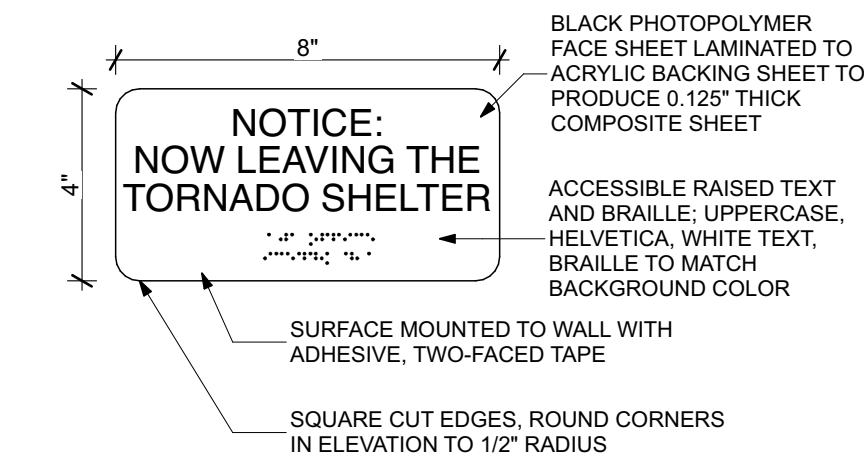
1 STORM SHELTER ENLARGED PLAN
SCALE: 1/4" = 1'-0"



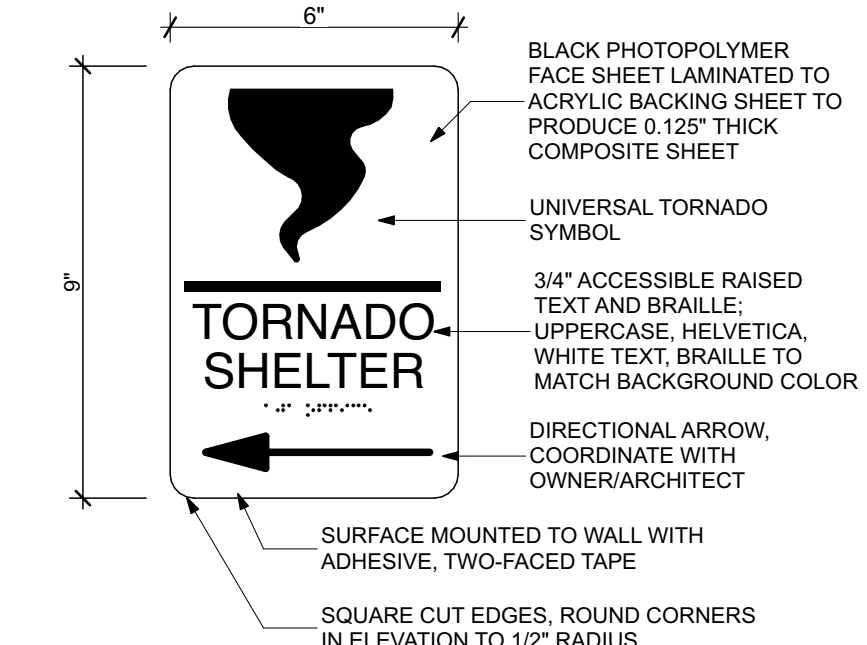
4 ENTRY SIGNAGE
SCALE: 3" = 1'-0"



3 DESIGN INFORMATION SIGNAGE
SCALE: 3" = 1'-0"



5 PERIMETER SIGNAGE
SCALE: 3" = 1'-0"

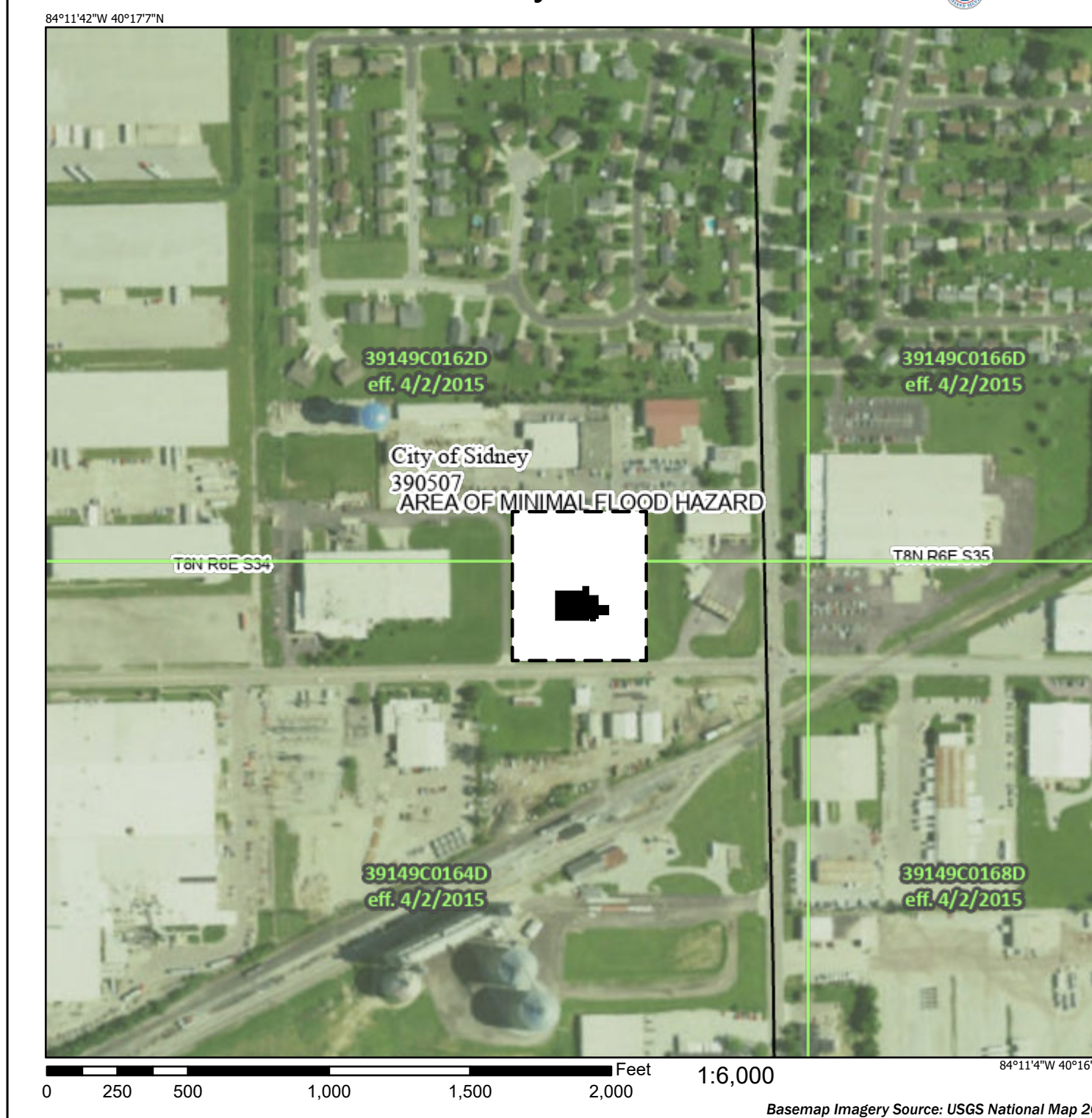


6 ACCESSWAY SIGNAGE
SCALE: 3" = 1'-0"

STORM SHELTER KEY NOTES

1. CLEAR FLOOR AREA (100 SF)
 2. FLOOR SET, TANK TYPE ADA TOILET. REFER TO PLUMBING DRAWINGS.
 3. ADA LAVATORY. REFER TO PLUMBING DRAWINGS.
 4. CASEWORK CONTAINING WATER AND EMERGENCY SUPPLIES.
 5. STORM SHELTER ENTRY SIGN, REFER TO 4/A1.2. MOUNT CENTERLINE OF SIGN 60" A.F.F.
 6. STORM SHELTER LOCATION AND ACCESSWAYS DIRECTIONAL SIGN LOCATIONS
 7. WALL MOUNT FIRE EXTINGUISHER LOCATION.
 8. STORM SHELTER PERIMETER SIGN, REFER TO 5/A1.2. MOUNT CENTERLINE OF SIGN 60" A.F.F.
 9. STORM SHELTER DESIGN INFORMATION SIGN, REFER TO 3/A1.2. MOUNT CENTERLINE OF SIGN 60" A.F.F.
 10. DOOR ASSEMBLY TO BE TESTED AND LABELED IN ACCORDANCE WITH ICC 500-2014, CHAPTER 8.
 11. CONTROL JOINT
1. INFORMATION ON THIS SHEET IS FOR GENERAL OVERVIEW OF STORM SHELTER LOCATION AND DETAILS. FOR ADDITIONAL DETAILS AND NOTES REFER TO PME AND STRUCTURAL DRAWINGS.
2. REFER TO HVAC DRAWINGS FOR DUCT PENETRATIONS.
3. REFER TO STRUCTURAL DRAWINGS FOR SHROUD DETAILS

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone 4, 5, X, AP5
- With BFE or Depth Zone 2a, 3a, 4a, 5a, VE, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 2% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone 1
- Future Conditions 1% Annual Chance Flood Hazard Zone 2
- Area with Reduced Flood Risk due to Levee. See Notes. Zone 3
- Area with Flood Risk due to Levee Zone 4
- Area of Minimal Flood Hazard Zone 5
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone 6

OTHER AREAS

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

GENERAL STRUCTURES

- Cross Sections with 1% Annual Chance
- Water Surface Elevation
- Coastal Traverset
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Traverset Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

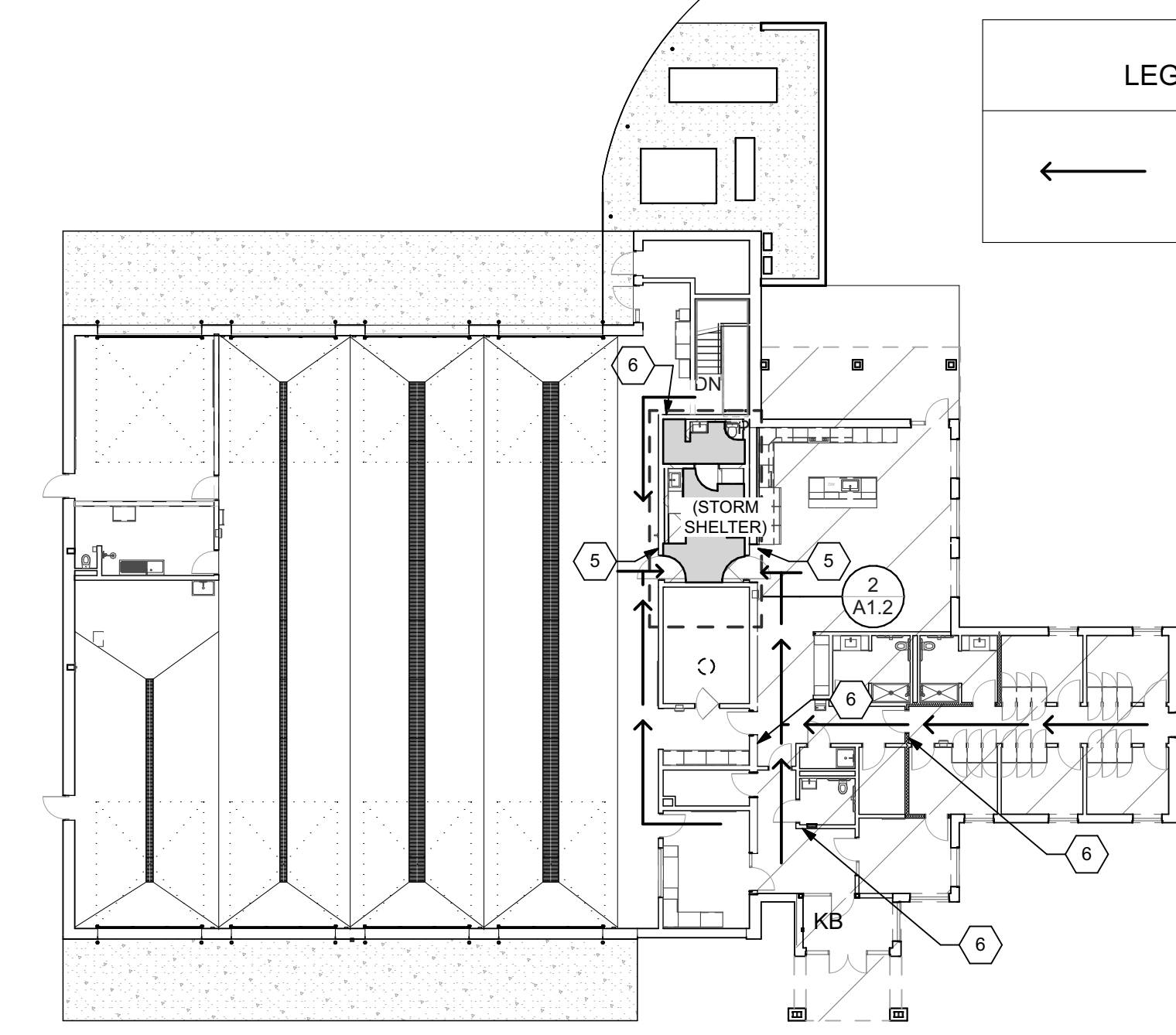
MAP PANELS

- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/22/2024 at 9:29 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is valid if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creator date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmapped areas cannot be used for regulatory purposes.



2 KEY PLAN
SCALE: 1" = 20'

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NEW CONSTRUCTION OF
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CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

STATE OF OHIO
REGISTERED ARCHITECT

DANIEL J. FREYTAG
8533

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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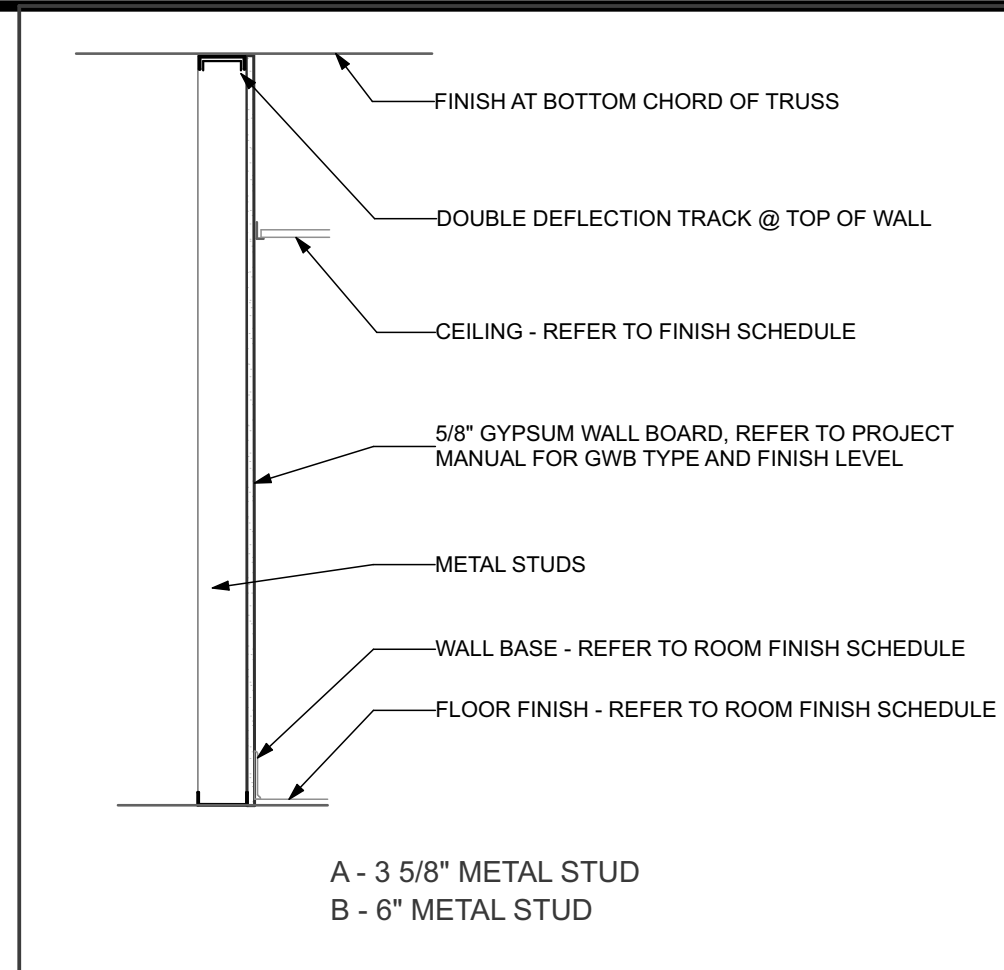
REVISIONS

STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

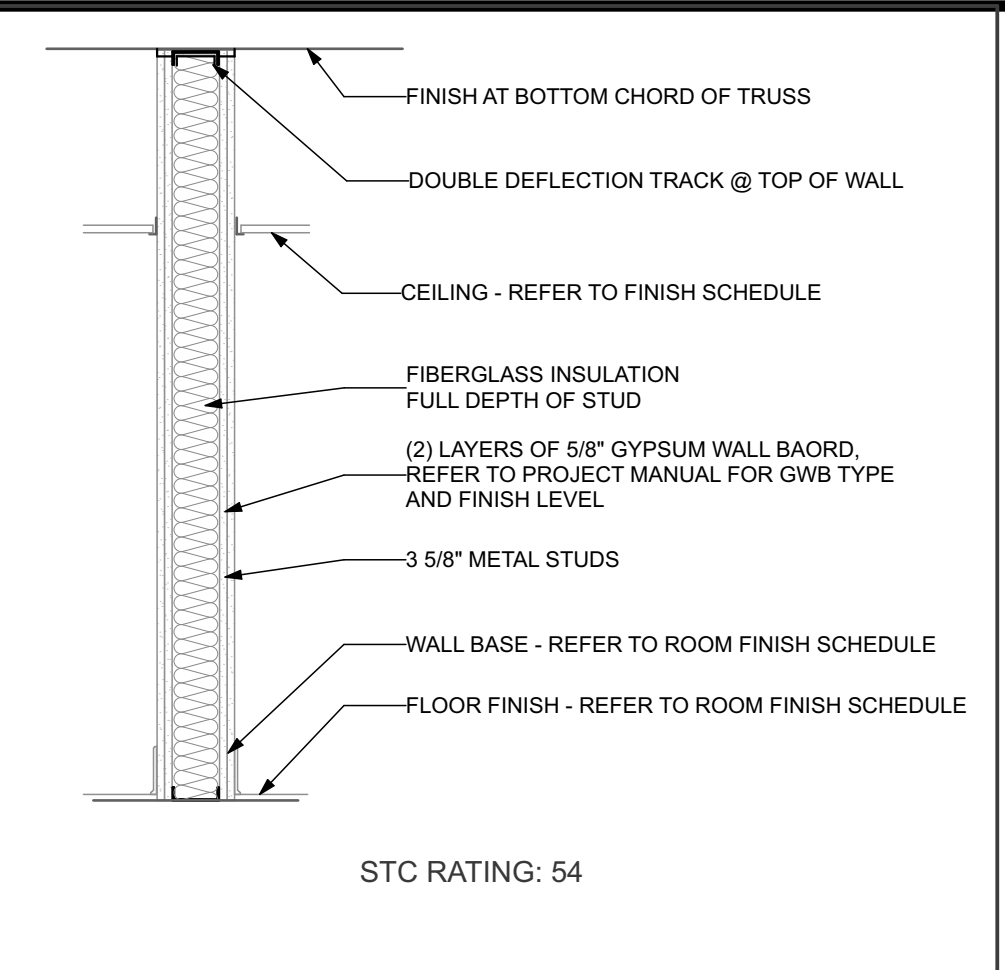
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

STORM SHELTER INFORMATION

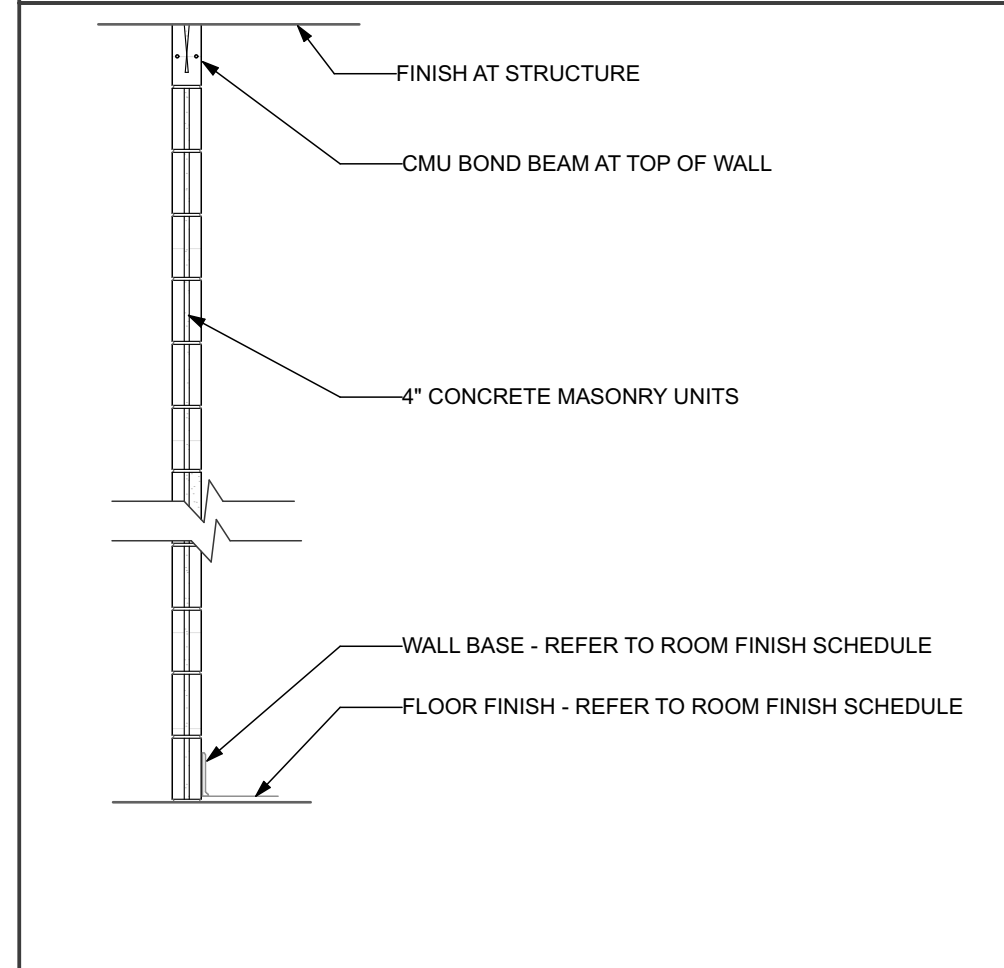
A1.2



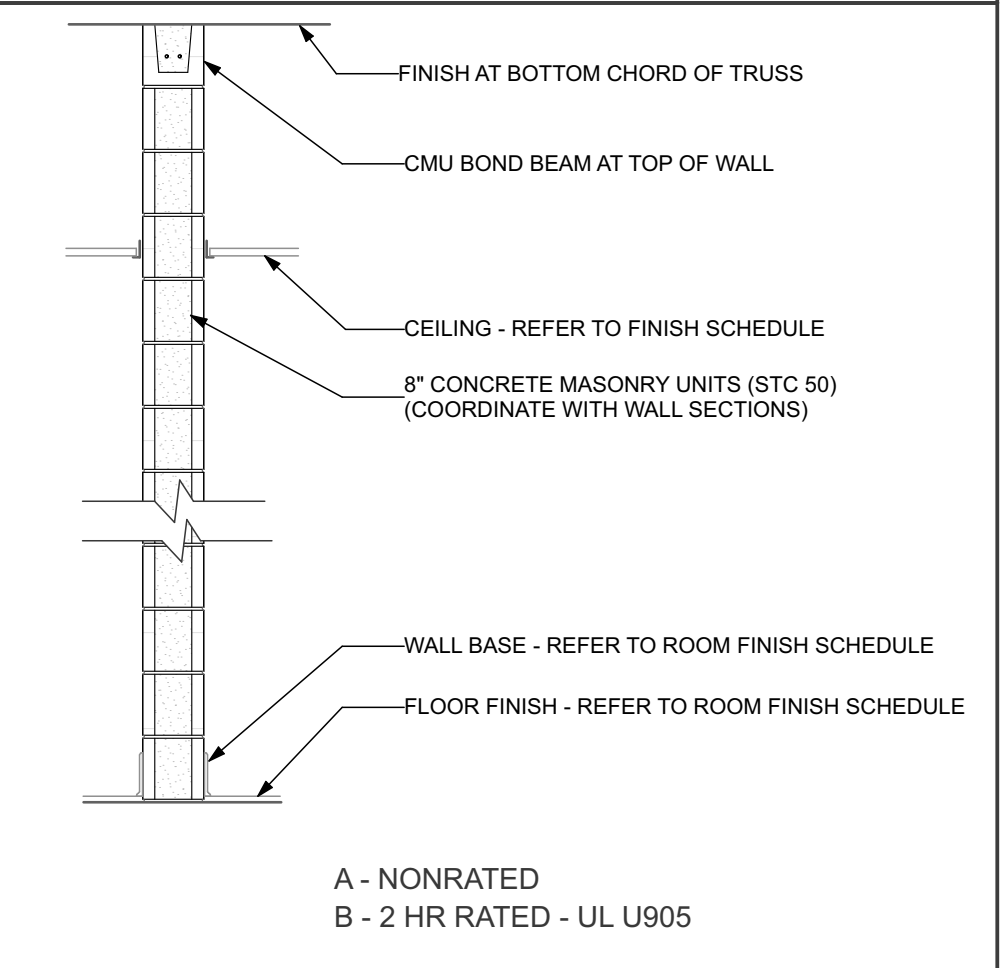
WALL TYPE W5_
A - 3 5/8\"/>



WALL TYPE W1
STC RATING: 54

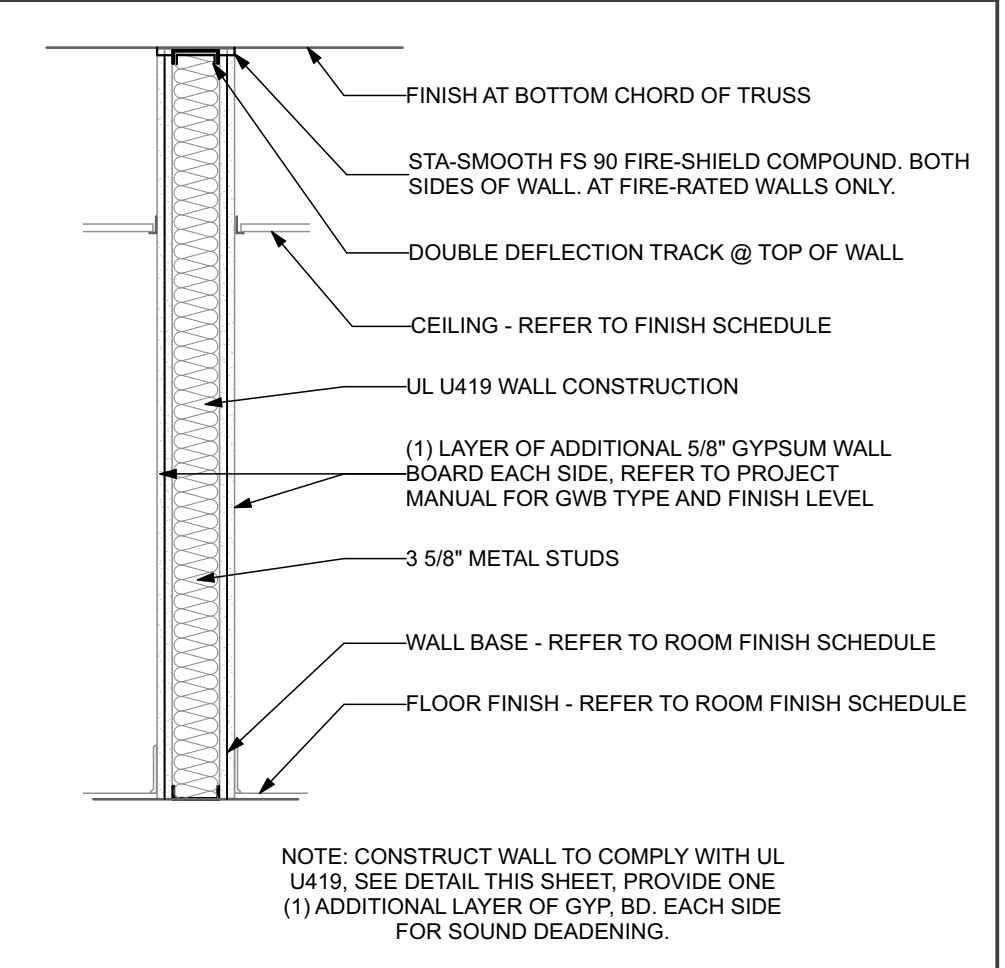
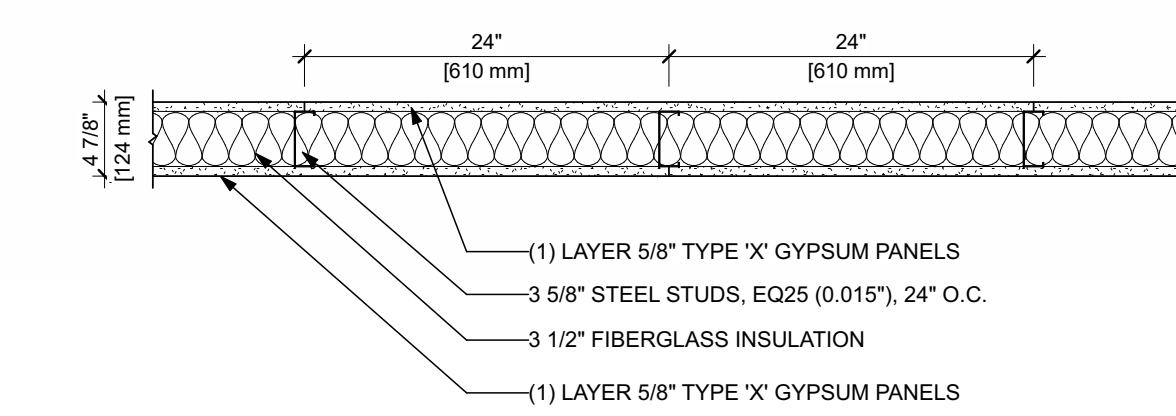


WALL TYPE W6



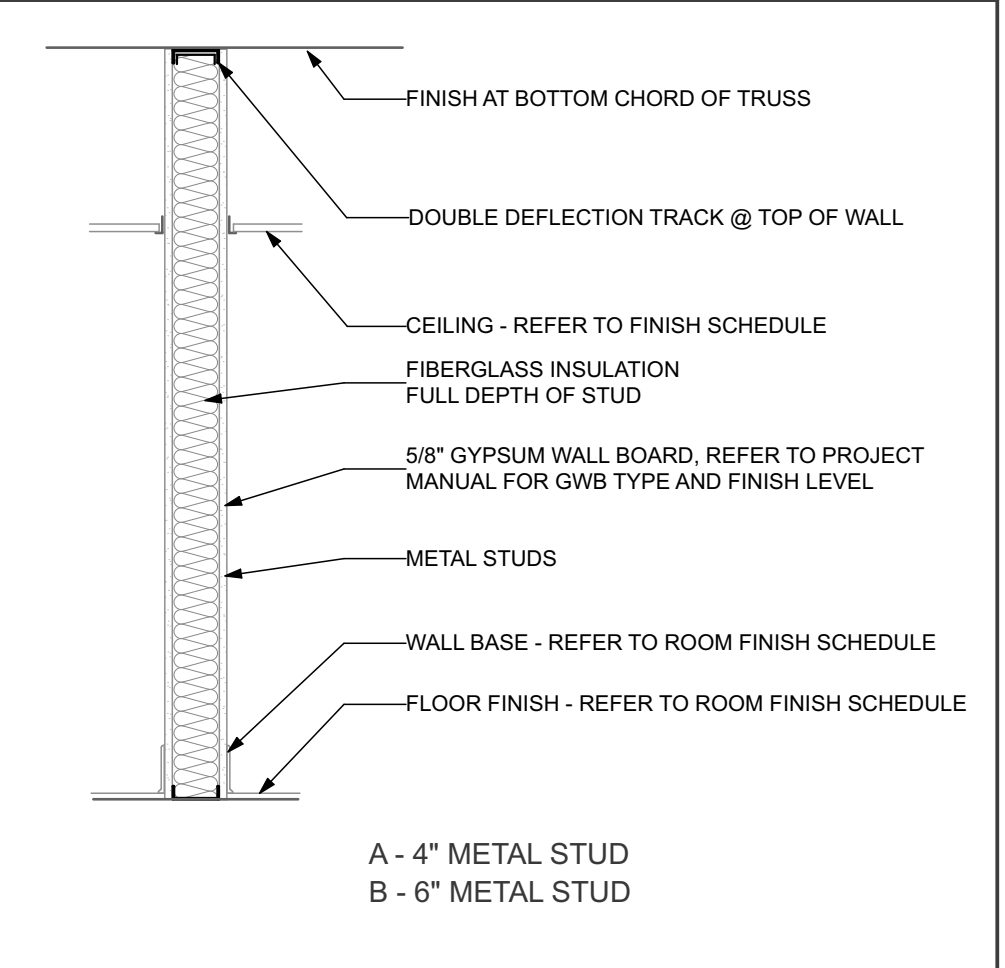
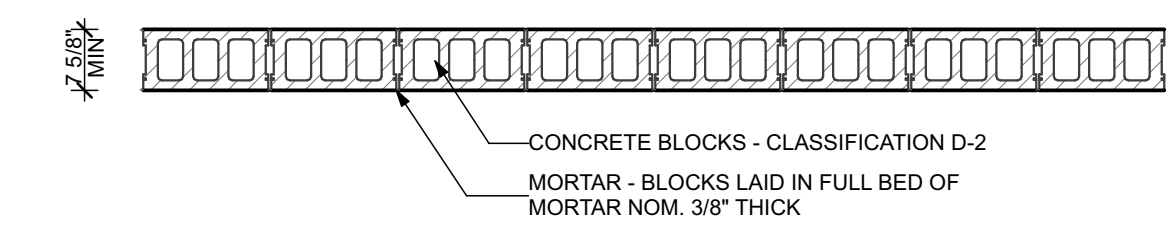
WALL TYPE W2_
A - NONRATED
B - 2 HR RATED - UL U905

DESIGN NO. UL U419
FIRE RATING: 1 HOUR (0.5 HOURS REQUIRED)
STC RATING: 48
SOUND TEST: US5-190434
SYSTEM THICKNESS: 4-7/8\"/>



WALL TYPE W3

DESIGN NO. UL U905
BEARING WALL RATING - 2 HR.
NONBEARING WALL RATING - 2 HR.



WALL TYPE W4_
A - 4\"/>

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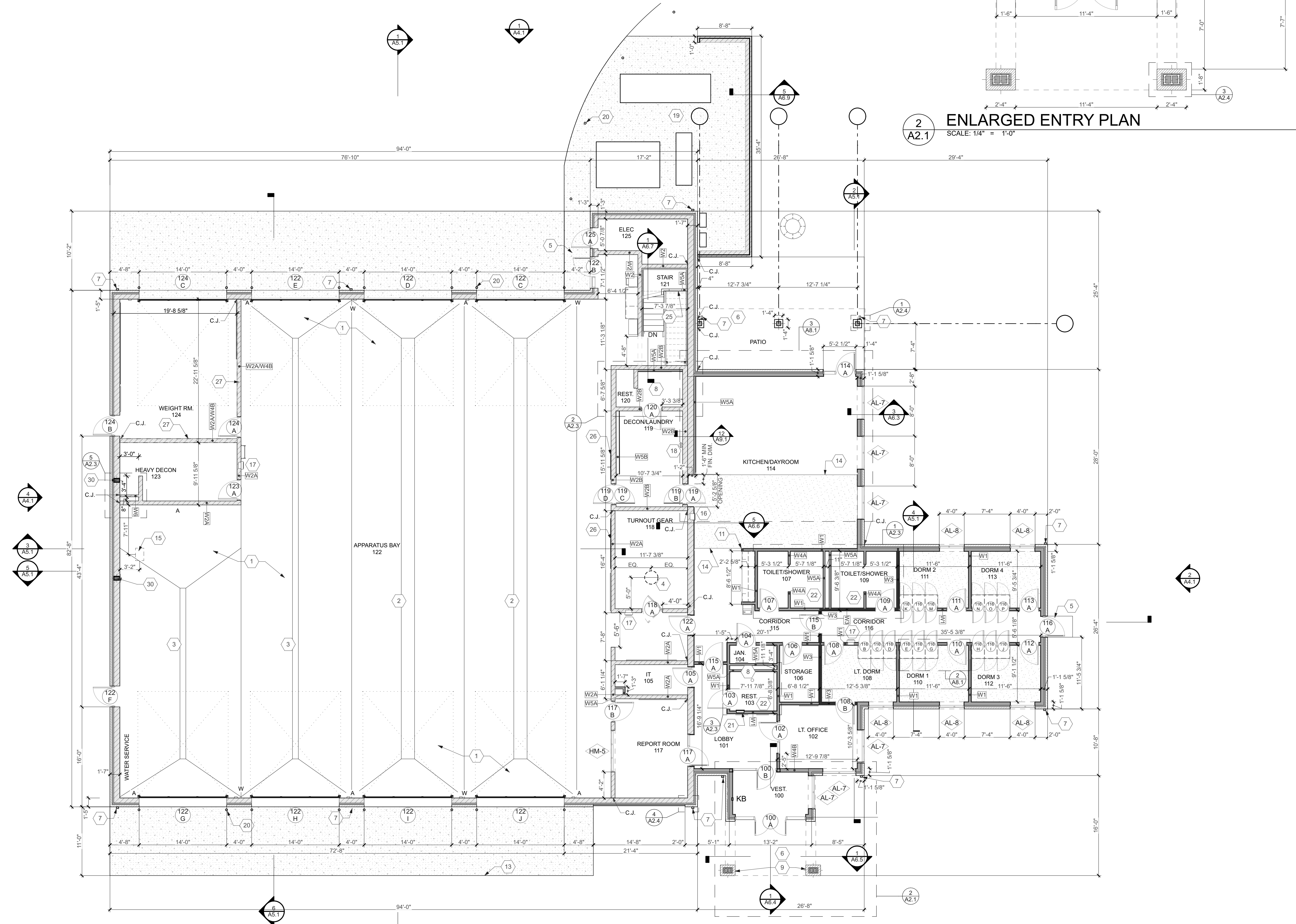
STATE OF OHIO
DANIEL J. FREYTAG
8533
REGISTERED ARCHITECT
Daniel J. Freytag
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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REVISIONS	
STORM SHELTER REVIEW PLAN APPROVAL / BIDDING	
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

WALL TYPES
A2.0

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A2/A2.1: FLOOR PLANS & DETAILS - FIRST FLOOR PLAN FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



1
A2.1
GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

2
A2.1
ENLARGED ENTRY PLAN
SCALE: 1/4" = 1'-0"

PLAN KEY NOTES

- SLOPE FLOOR TOWARDS DRAIN 1/4" PER FOOT, TYPICAL AT ALL TRENCH DRAINS.
- 25" WIDE TRENCH DRAIN, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
- 8" WIDE TRENCH DRAIN, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
- MANHOLE IN MEZZANINE FLOOR.
- CONCRETE STOOP/FROST SLAB, REFER TO TYPICAL STOOP DETAIL ON STRUCTURAL DRAWINGS AND COORDINATE WITH SITE PLAN.
- CONCRETE PORCH SLAB, REFER TO STRUCTURAL DRAWINGS FOR DETAIL AND SITE DRAWINGS FOR JOINT LOCATIONS AND FINISH.
- DOWNSPOUT AND BOOT LOCATION, REFER TO DETAIL 7/A3.3 AND COORDINATE WITH CIVIL DRAWINGS.
- FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
- CAST STONE MEMORIAL PLAQUE (12" X 16") WITH INSCRIPTION, COORDINATE WITH OWNER / ARCHITECT.
- PREFABRICATED ALUMINUM LADDER.
- 3" DIA TUBE STEEL PIPE COLUMN, REFER TO STRUCTURAL DRAWINGS.
- 1 1/2" DIA. GUARD RAIL, REMOVABLE SECTIONS @ 48" MAX. REFER TO DETAIL 4/A6.7
- CONCRETE APRON, REFER TO LANDSCAPE DRAWINGS FOR DETAILS
- CARPET TRANSITION STRIP
- HOSE DRYING HOIST, REFER TO 1/A6.9.
- FULLY RECESSED FE CABINET
- SEMI-RECESSED FE CABINET
- FE W/ WALL BRACKET
- CONCRETE MECHANICAL PAD, REFER TO SITE DRAWINGS.
- BOLLARDS, REFER TO LANDSCAPE DRAWINGS FOR DETAIL.
- RECESSED WALL UNIT HEATER, REFER TO MECHANICAL DRAWINGS.
- 1/4" RECESS IN CONCRETE FOR RESINOUS FLOORING.
- UNDER FLOOR CONDUIT FOR WATER LINE TO ISLAND, REFER TO PLUMBING DRAWINGS.
- ATTIC EQUIPMENT PLATFORM CONSISTING OF 3/4" FRP PLYWOOD. REFER TO BUILDING SECTION 2/A5.1
- ACCESS DOOR: BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.
- ALUMINUM DIAMOND PLATE WALL PROTECTION.
- CMU 11'-4" HIGH WITH CFMF AND GYPSUM BOARD ABOVE.
- JOINT AT STORM SHELTER CONCRETE SLAB / PRECAST PLANK, REFER TO STRUCTURAL DRAWINGS.
- GYPSUM BOARD FINISH, REFER TO SECTION 5/A6.6
- COLUMN LOCATION. REFER TO STRUCTURAL DRAWINGS.

FLOOR PLAN GENERAL NOTES

- FLOOR PLAN DIMENSIONS FOR EXTERIOR WALLS ARE FROM FACE OF STUD OR CMU TO WALL FINISH/VENEER OR FOUNDATION. FLOOR PLAN DIMENSIONS FOR INTERIOR WALLS ARE TO THE OUTSIDE FACE OF STUDS AND CMU.
- BOTH INTERIOR AND EXTERIOR CMU WALLS SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.
- DOOR FRAME LOCATED 4" FROM WALL AT HINGE SIDE, UNLESS NOTED OR DIMENSIONED OTHERWISE.
- ALL OUTSIDE CORNERS OF CONCRETE MASONRY UNITS (CMU) ARE BULL NOSE, UNLESS NOTED OTHERWISE.
- THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- PROVIDE CONTINUOUS FOUNDATION INSULATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. REFER TO WALL SECTIONS FOR DETAIL.
- WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
- REFER TO EQUIPMENT PLANS FOR ALL MOUNTING HEIGHT OF CASEWORK AND TIE-OFFS SEE MOUNTING HEIGHT STANDARDS FOR ACCESSORIES AND MISC. EQUIPMENT MOUNTING HEIGHTS.
- REFER TO REFLECTED CEILING PLANS FOR BULKHEAD/SOFFIT LOCATIONS AND DETAILS.
- REFER TO DETAILS FOR TYPICAL COMMON CONTROL JOINTS AND EXPANSION JOINT DETAILS.
- PAINT INTERIOR FACE OF CMU.
- PROVIDE CONTROL JOINTS IN CMU WALLS AS INDICATED ON STRUCTURAL DRAWINGS, SCHEDULES, AND DETAILS.
- REFER TO EXTERIOR ELEVATIONS / FLOOR PLAN FOR CONTROL JOINTS IN EXTERIOR WALL VENEER.
- CONTINUOUS BLOCKING SHALL BE INSTALLED IN ALL STUD WALLS FOR EQUIPMENT & CASEWORK MOUNTING. COORDINATE LOCATIONS REQUIRED PRIOR TO INSTALLATION.
- REFER TO SHEET A7.1 FOR DOOR SCHEDULE, FRAME AND WINDOW TYPES. P. REFER TO SHEET A7.1 FOR ROOM FINISH SCHEDULE.
- REFER TO SPECIFICATIONS FOR ROOM SIGNAGE, AND DETAIL 9/A9.2
- SEE SPECIFICATIONS FOR DOOR HARDWARE SETS.
- COORDINATE W/ OWNER ANY ELECTRICAL, PLUMBING AND/OR WOOD BLOCKING REQUIREMENTS OF ITEMS NOTED "OWNER PROVIDED".
- REFER TO A8 DRAWINGS FOR EQUIPMENT PLANS.
- REFER TO SHEET A6.2 FOR CONTROL JOINTS IN GYPSUM BOARD.

LEGEND

#	KEY NOTE, SEE ABOVE
W2B	INTERIOR WALL TYPE, REFER TO SHEET A2.3
AL-7	ALUMINUM FRAMED OPENING, REFER TO SHEET A7.1
HM-5	HOLLOW METAL FRAMED OPENING, REFER TO SHEET A7.1
#	DOOR OPENING, REFER TO DOOR SCHEDULE ON SHEET A7.1
A	LOCATION WITH AIR HOSE REEL
W	LOCATION WITH WATER ACCESS REFER TO PLUMBING DRAWINGS
#	DETAIL NUMBER
#	DETAIL / ELEVATION DESIGNATION
#	SHEET NUMBER

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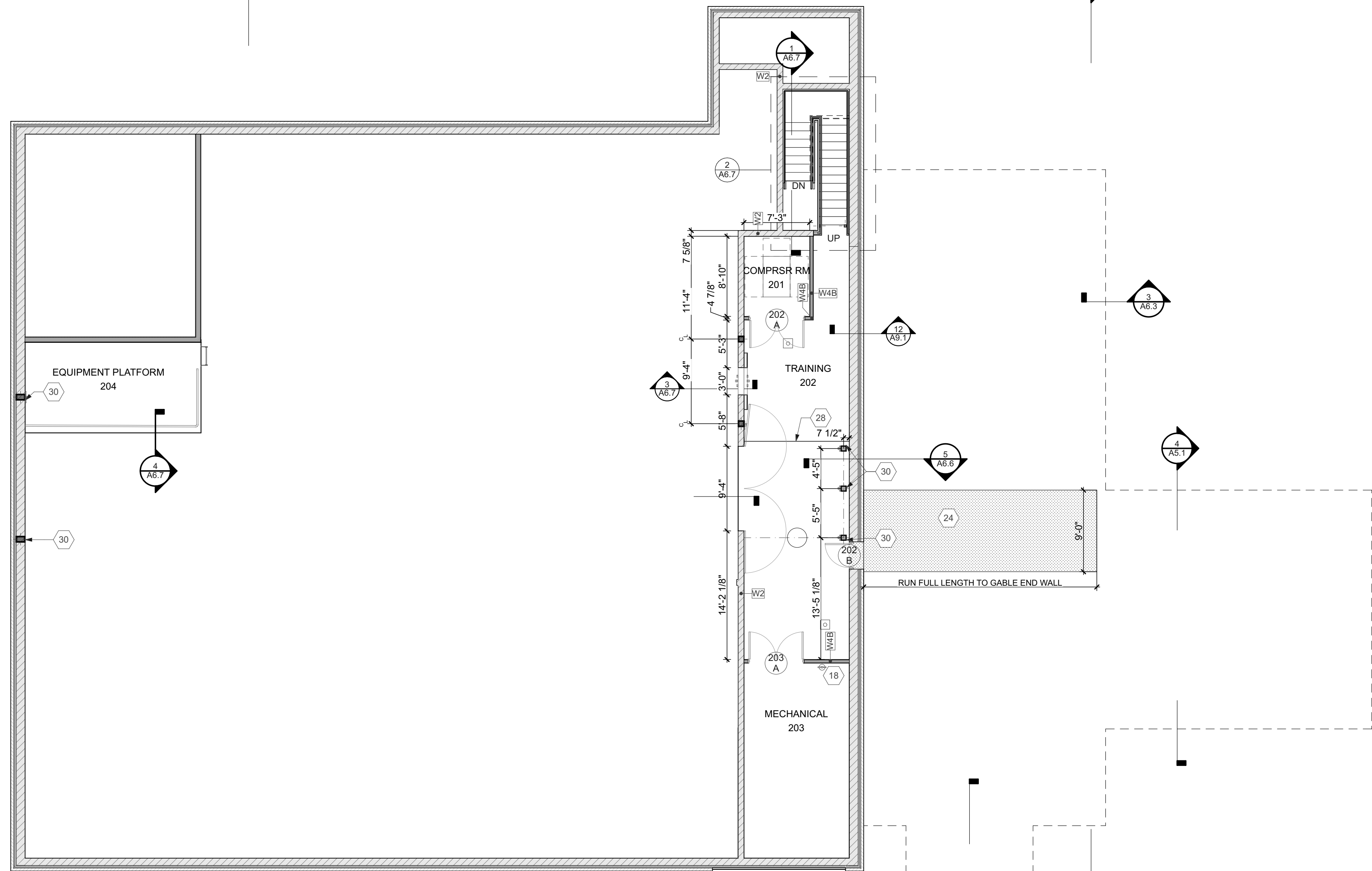
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REVISIONS

STORM SHELTER REVIEW	PLAN APPROVAL / BIDDING
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF
FIRST FLOOR PLAN	
A2.1	

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A2-A2.2-FLOOR PLANS & DETAILS: MEZZANINE FLOOR PLAN FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud Software as a Service/231103 Fire Station CD

1
A2.2 MEZZANINE PLAN
SCALE: 1/8" = 1'-0"



PLAN KEY NOTES

- PLAN NOTES ARE STD. FOR ALL FLOOR PLANS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- SLOPE FLOOR TOWARDS DRAIN 1/4" PER FOOT, TYPICAL AT ALL TRENCH DRAINS.
 - 25" WIDE TRENCH DRAIN, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
 - 8" WIDE TRENCH DRAIN, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
 - MANHOLE IN MEZZANINE FLOOR.
 - CONCRETE STOOP/FROST SLAB, REFER TO TYPICAL STOOP DETAIL ON STRUCTURAL DRAWINGS AND COORDINATE WITH SITE PLAN.
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 - DOWNSPOUT AND BOOT LOCATION, REFER TO DETAIL 7/A3.3 AND COORDINATE WITH CIVIL DRAWINGS.
 - FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
 - CAST STONE MEMORIAL PLAQUE (12" X 16") WITH INSCRIPTION, COORDINATE WITH OWNER / ARCHITECT.
 - PREFABRICATED ALUMINUM LADDER.
 - 3" DIA TUBE STEEL PIPE COLUMN, REFER TO STRUCTURAL DRAWINGS.
 - 1 1/2" DIA. GUARD RAIL, REMOVABLE SECTIONS @ 48" MAX. REFER TO DETAIL 4/A6.7
 - CONCRETE APRON, REFER TO LANDSCAPE DRAWINGS FOR DETAILS
 - CARPET TRANSITION STRIP
 - HOSE DRYING HOIST, REFER TO 1/A6.9.
 - FULLY RECESSED FE CABINET
 - SEMI-RECESSED FE CABINET
 - FE W/ WALL BRACKET
 - CONCRETE MECHANICAL PAD, REFER TO SITE DRAWINGS.
 - BOLLARDS, REFER TO LANDSCAPE DRAWINGS FOR DETAIL.
 - RECESSED WALL UNIT HEATER, REFER TO MECHANICAL DRAWINGS.
 - 1/4" RECESS IN CONCRETE FOR RESINOUS FLOORING.
 - UNDER FLOOR CONDUIT FOR WATER LINE TO ISLAND, REFER TO PLUMBING DRAWINGS.
 - ATTIC EQUIPMENT PLATFORM CONSISTING OF 3/4" FRT PLYWOOD. REFER TO BUILDING SECTION 2/A5.1
 - ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.
 - ALUMINUM DIAMOND PLATE WALL PROTECTION.
 - CMU 11'-4" HIGH WITH CFMF AND GYPSUM BOARD ABOVE.
 - JOINT AT STORM SHELTER CONCRETE SLAB / PRECAST PLANK, REFER TO STRUCTURAL DRAWINGS.
 - GYPSUM BOARD FINISH, REFER TO SECTION 5/A6.6
 - COLUMN LOCATION. REFER TO STRUCTURAL DRAWINGS.

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- REFER TO SPECIFICATIONS FOR ROOM SIGNAGE, AND DETAIL 9/A9.2
- SEE SPECIFICATIONS FOR DOOR HARDWARE SETS.
- COORDINATE W/ OWNER ANY ELECTRICAL, PLUMBING AND/OR WOOD BLOCKING REQUIREMENTS OF ITEMS NOTED "OWNER PROVIDED".
- REFER TO A8 DRAWINGS FOR EQUIPMENT PLANS.
- REFER TO SHEET A6.2 FOR CONTROL JOINTS IN GYPSUM BOARD.

LEGEND

#	KEY NOTE, SEE ABOVE
W2B	INTERIOR WALL TYPE, REFER TO SHEET A2.3
ALP	ALUMINUM FRAMED OPENING, REFER TO SHEET A7.1
HMB	HOLLOW METAL FRAMED OPENING, REFER TO SHEET A7.1
#	DOOR OPENING, REFER TO DOOR SCHEDULE ON SHEET A7.1
A	LOCATION WITH AIR HOSE REEL
W	LOCATION WITH WATER ACCESS REFER TO PLUMBING DRAWINGS
#	DETAIL NUMBER
A/B	DETAIL / ELEVATION DESIGNATION
#	SHEET NUMBER

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG
8533
REGISTERED ARCHITECT

Daniel J. Freytag
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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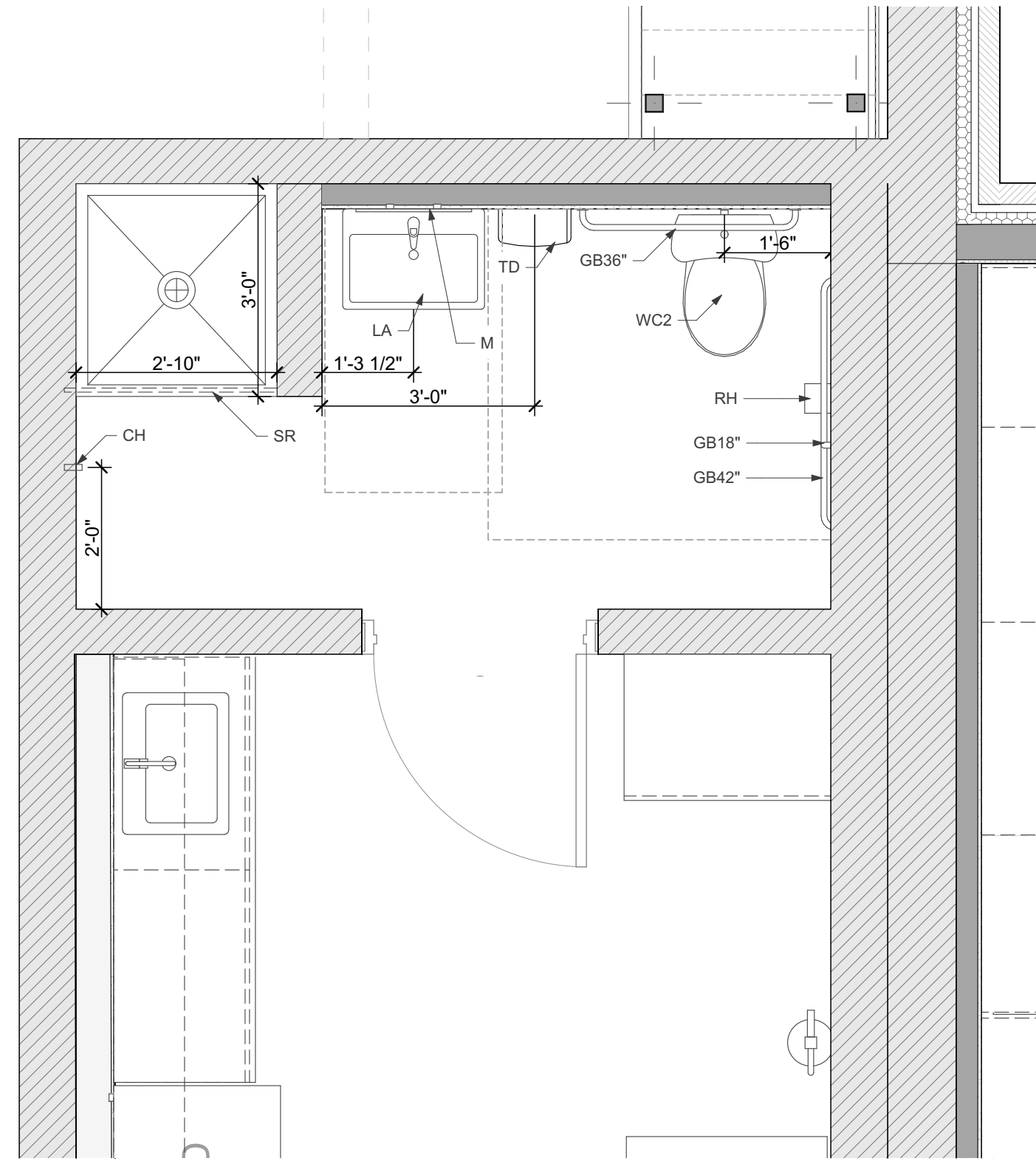
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2207.02	11/22/24
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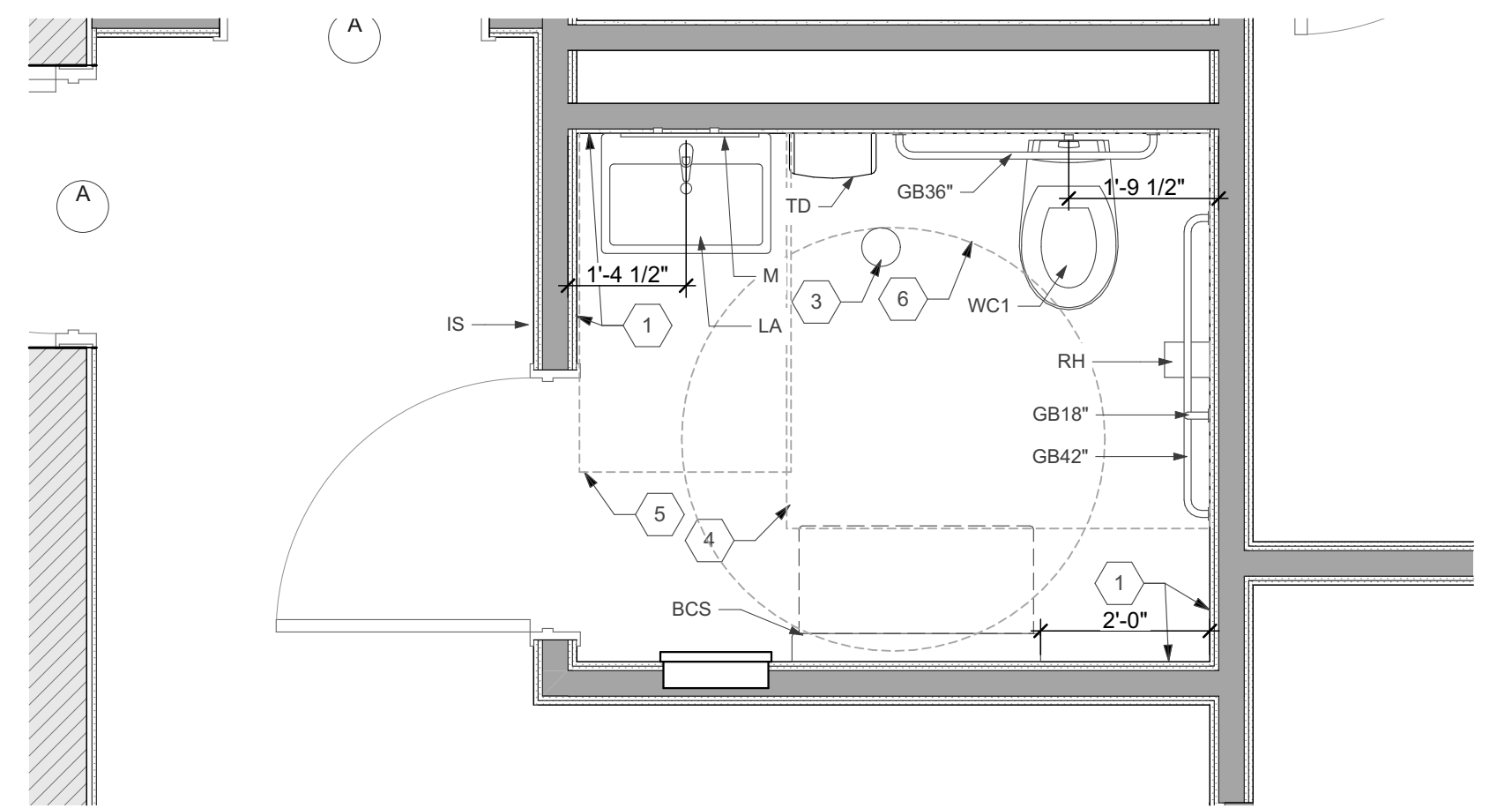
MEZZANINE FLOOR PLAN

A2.2

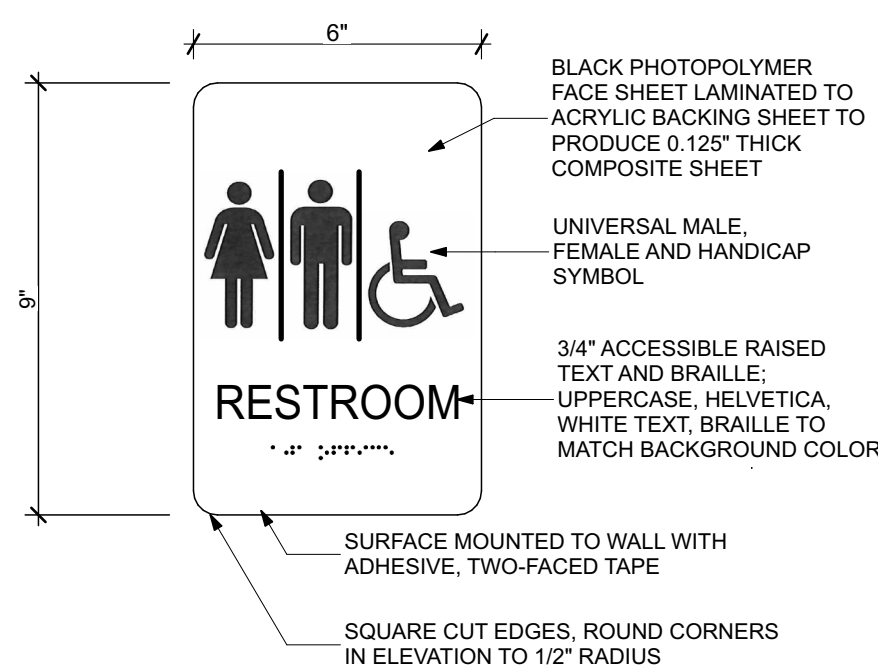
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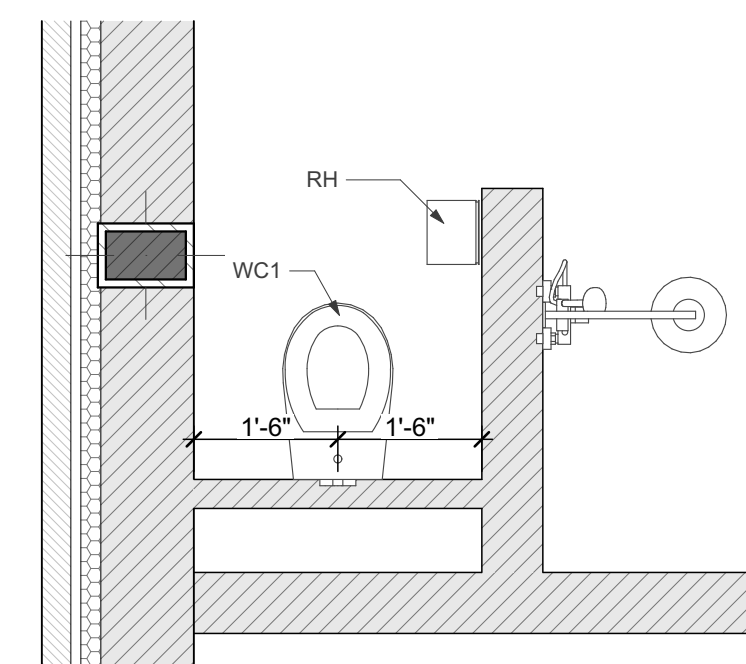
2
A2.3 ENLARGED RESTROOM & DECON/LAUNDRY
SCALE: 1/2" = 1'-0"



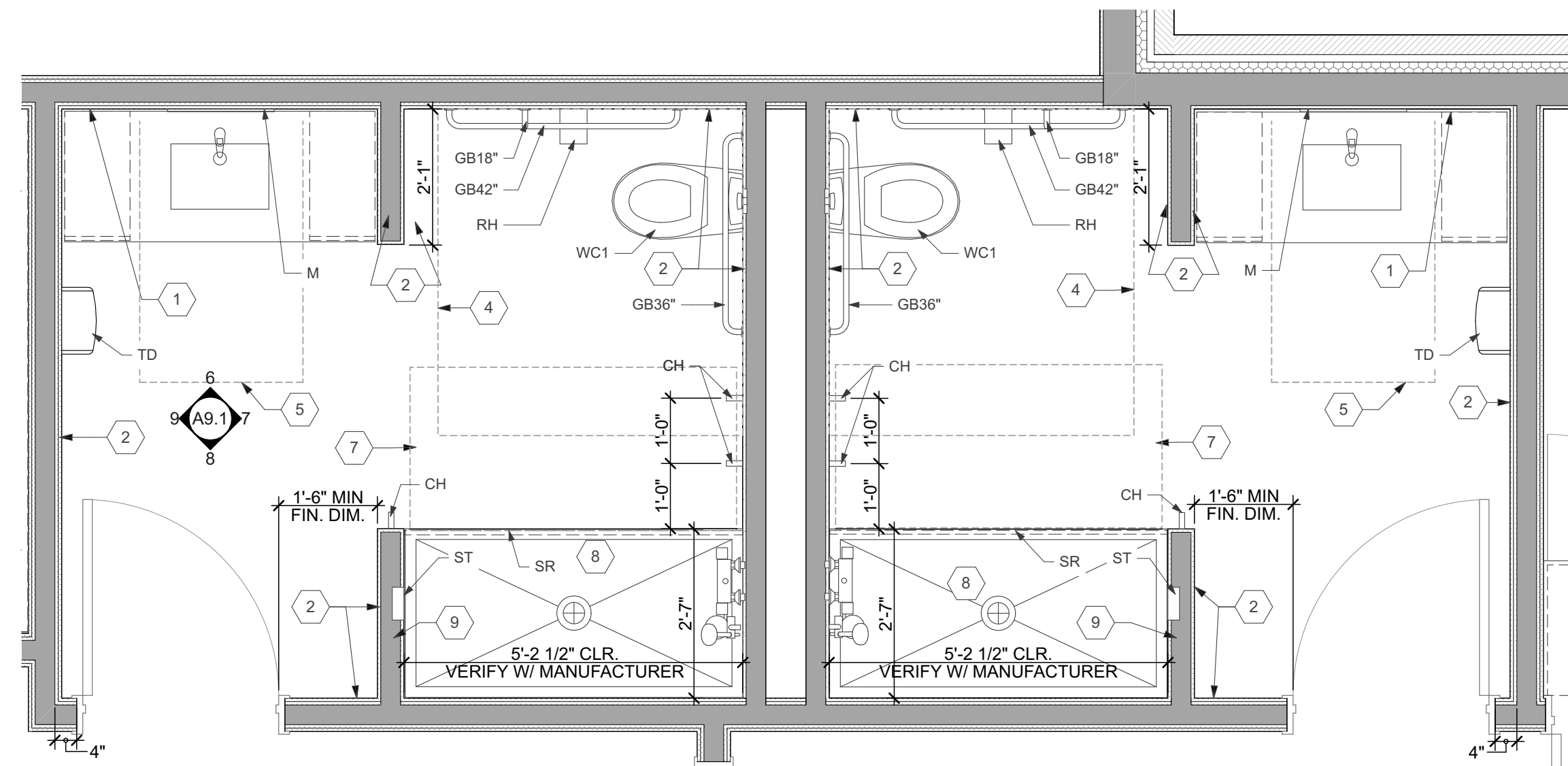
3
A2.3 ENLARGED RESTROOM
SCALE: 1/2" = 1'-0"



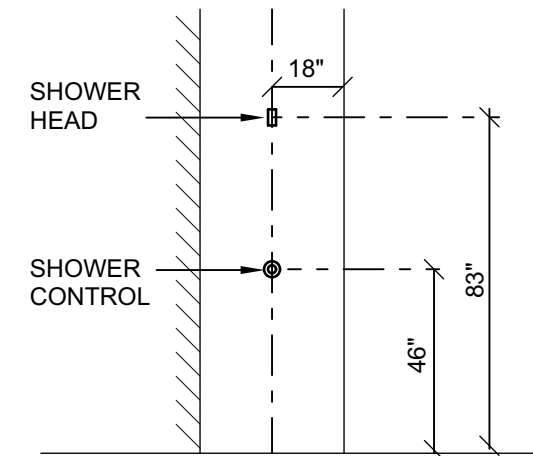
4
A2.3 SIGNAGE
SCALE: 3" = 1'-0"



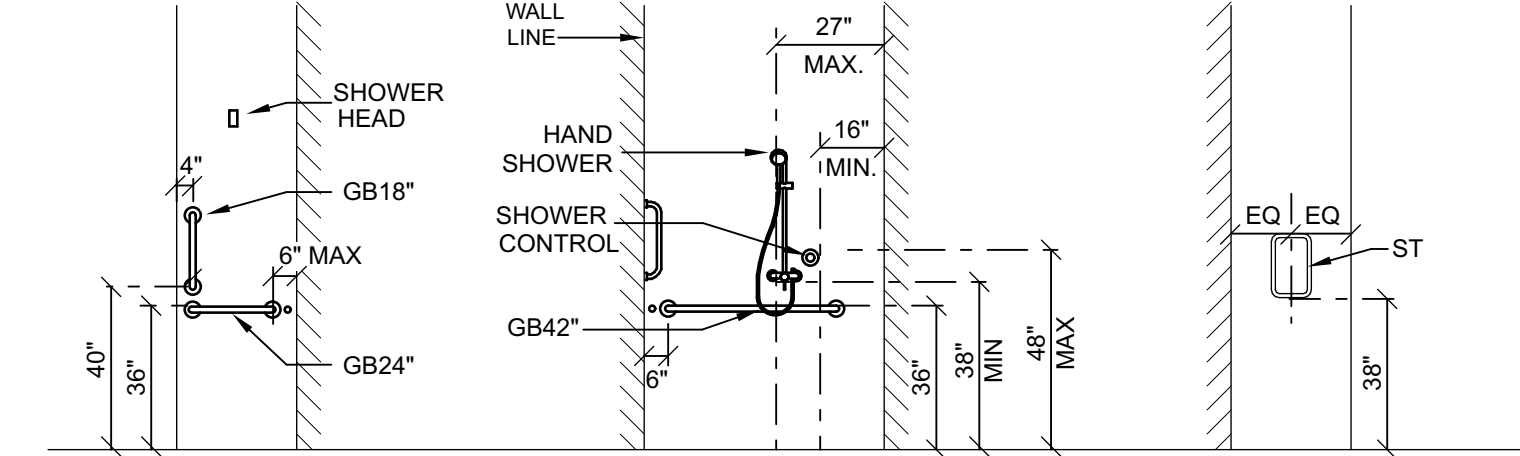
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A2.3 ENLARGED HEAVY DECON
SCALE: 1/2" = 1'-0"



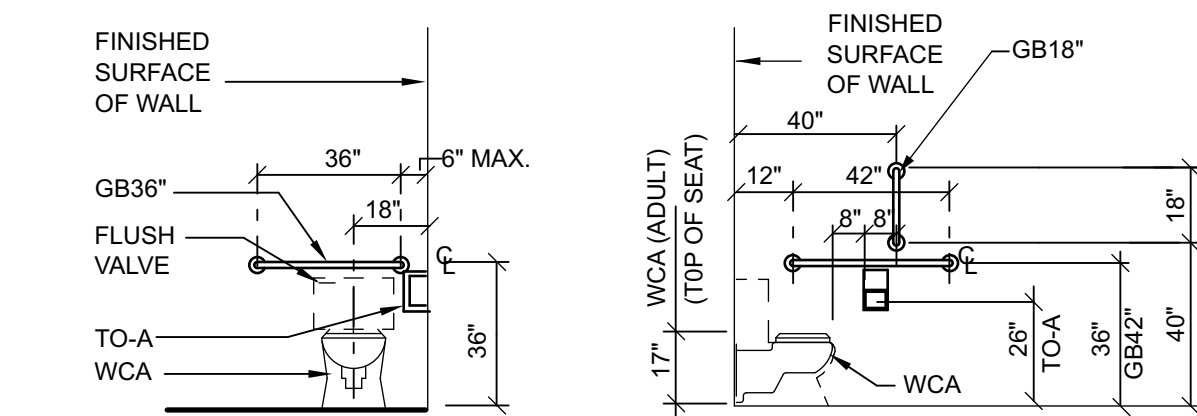
1
A2.3 ENLARGED SHOWERS
SCALE: 1/2" = 1'-0"



36" X 36" SHOWER
SHOWERHEAD SHOWER CONTROL

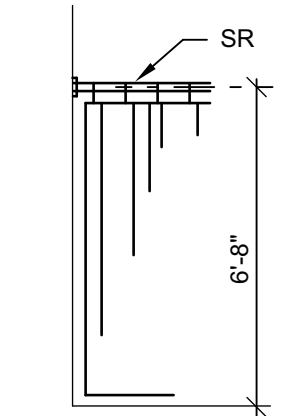


30" X 60" SHOWER
SHOWERHEAD SHOWER CONTROL
ST-SOAP TRAY GB-GRAB BAR

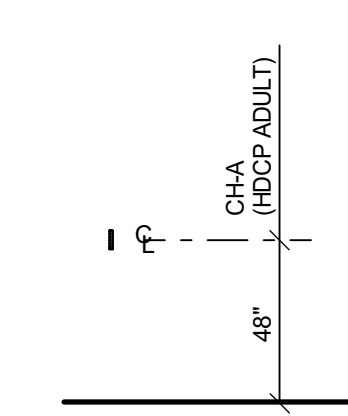


ACCESSIBLE ADULT LOCATION

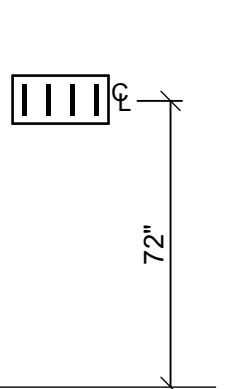
WC1 - WATER CLOSET - WALL HUNG (HDCP - ADULT) GB - GRAB BAR
WC2 - WATER CLOSET - FLOOR SET (HDCP - ADULT) RH - TOILET TISSUE ROLL HOLDER



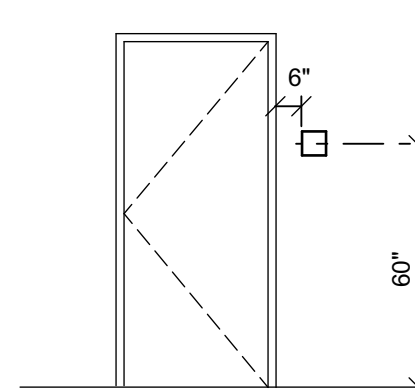
SR - SHOWER ROD
W/ CURTAIN
OR TRACK



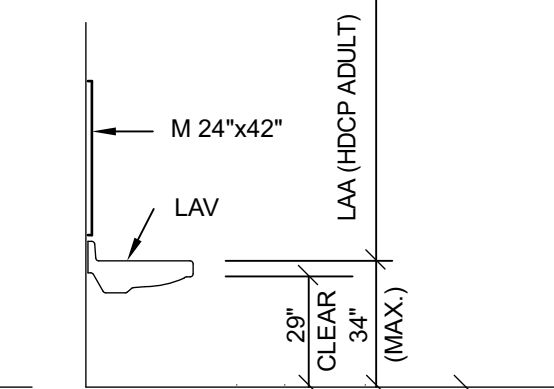
CH - CLOTHES HOOKS



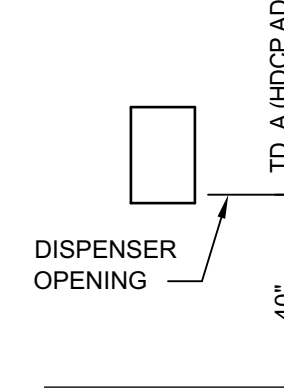
MH - MOP HOLDER



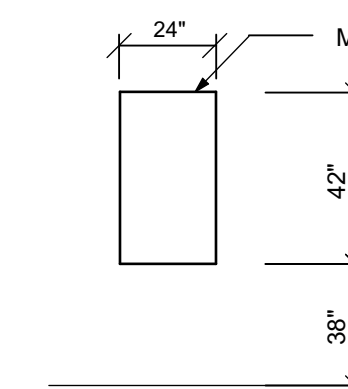
IS - INTERIOR SIGN
REFER TO DETAIL 4/A2.3
AND SHEET A1.2



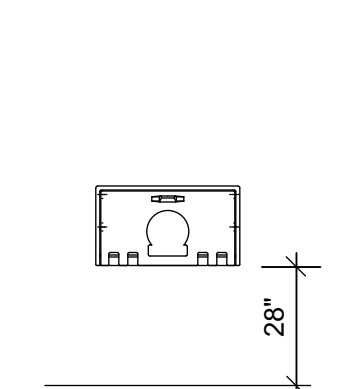
LA - LAVATORY



TD - PAPER TOWEL
DISPENSER



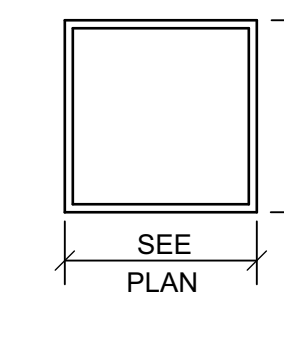
M - MIRROR OVER
COUNTERTOP



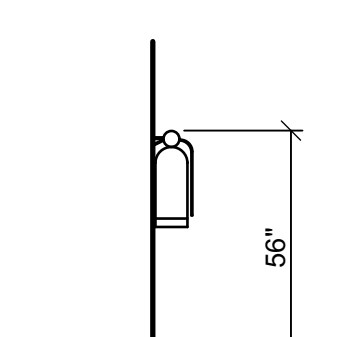
BCS - BABY CHANGING
STATION

NOTE:

1. MOUNTING HEIGHTS INDICATED ABOVE ARE BASED UPON TOILET ACCESSORIES SUPPLIED BY BOBRICK WASHROOM EQUIPMENT, INC. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MOUNTING HEIGHTS OF TOILET ACCESSORIES SUPPLIED BY OTHER MANUFACTURERS
2. TOILET ACCESSORY DESIGNATIONS REFERS TO THE TYPE OF TOILET ACCESSORY (REFER TO SPECIFICATIONS).
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.



WB - WHITEBOARD



FE - FIRE EXTINGUISHER

PLAN ENLARGEMENT NOTES

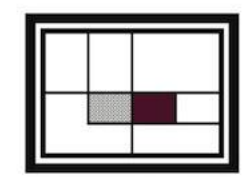
1. WALL TILE, FULL HEIGHT OF WALL.
2. WALL TILE WAJNSCOT, 5'-0" A.F.F.
3. FLOOR DRAIN, SLOPE FLOOR SLAB TO DRAIN 1/4" PER FOOT.
4. ADA CLEAR FLOOR SPACE AT WATER CLOSETS.
5. ADA CLEAR FLOOR SPACE AT LAVATORIES.
6. 5'-0" ADA TURNING RADIUS.
7. ADA CLEAR FLOOR SPACE AT SHOWER.
8. MANUFACTURED SHOWER UNIT, VERIFY ROUGH OPENING REQUIREMENTS WITH SUBMITTAL DRAWINGS.
9. PROVIDE BLOCKING IN WALL FOR FUTURE SHOWER SEAT.

PLAN ENLARGEMENT GENERAL NOTES

- A. TOILETS SHALL HAVE A CLEAR INSIDE DIMENSION DEPTH OF 5'-0" MINIMUM, UNLESS NOTED OTHERWISE.
- B. FLUSH VALVES SHALL ALWAYS BE LOCATED ON THE CLEAR FLOOR SPACE SIDE OF THE STALL PER ADA GUIDELINES.

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

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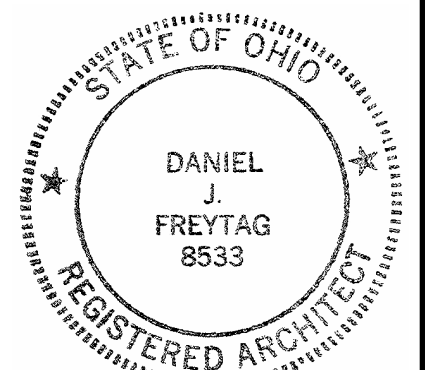


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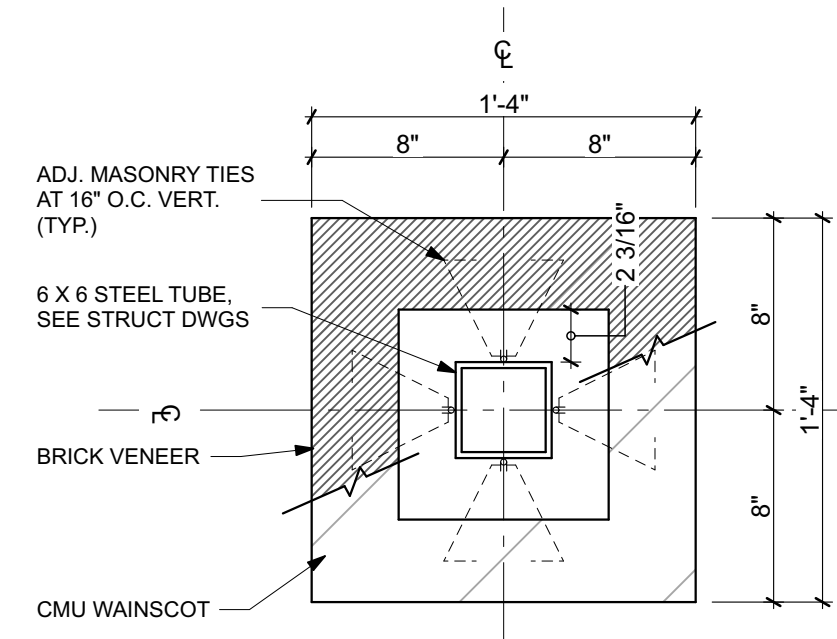
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PLAN APPROVAL / BIDDING

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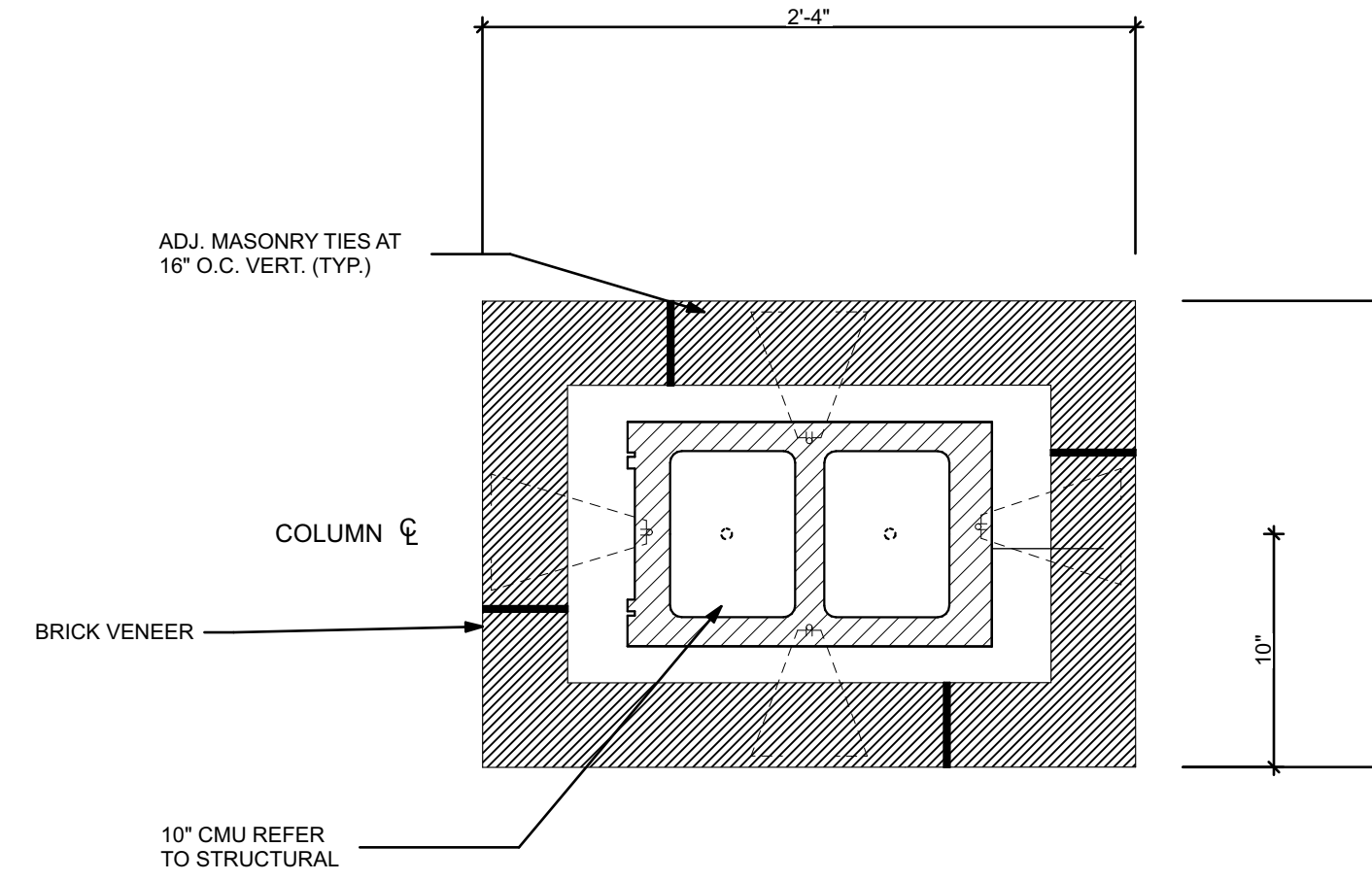
ENLARGED RESTROOM PLANS

A2.3

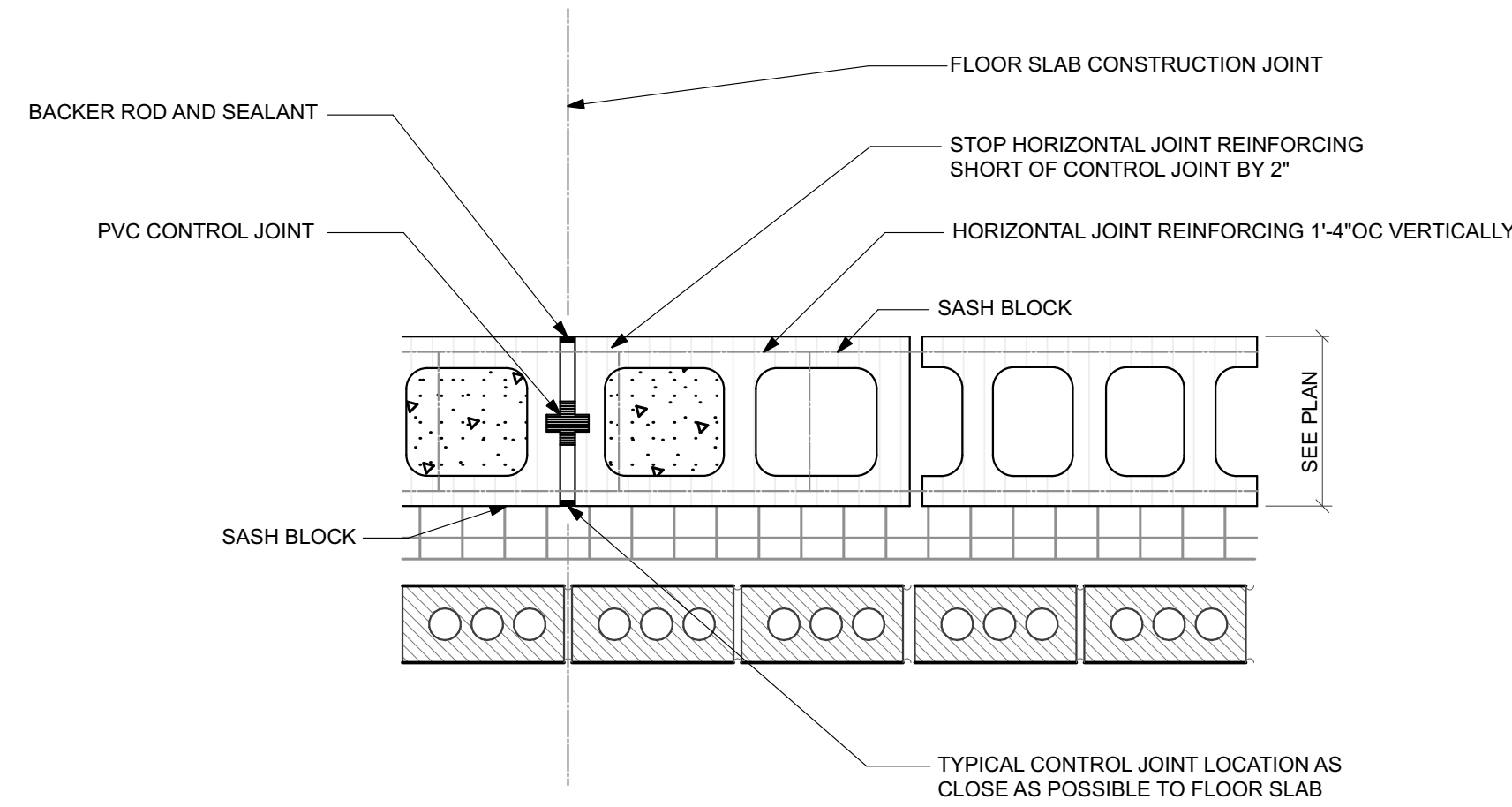
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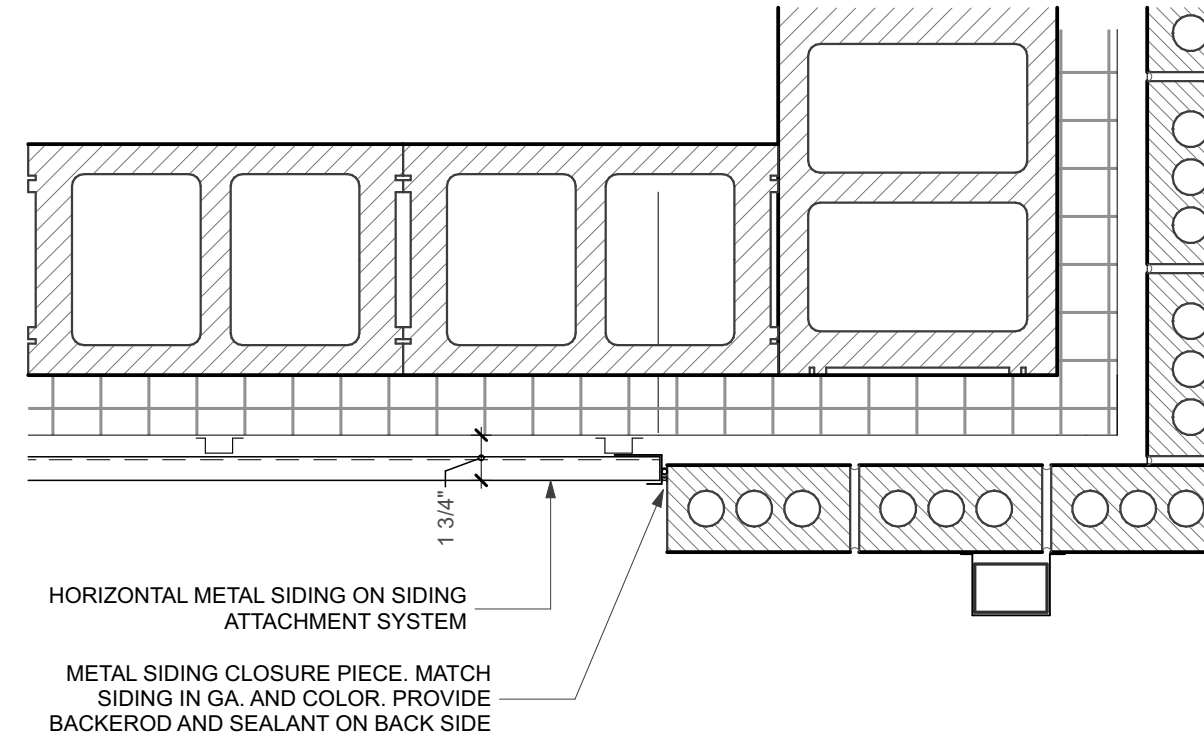
1 COLUMN DETAIL
A2.4 SCALE: 1 1/2" = 1'-0"



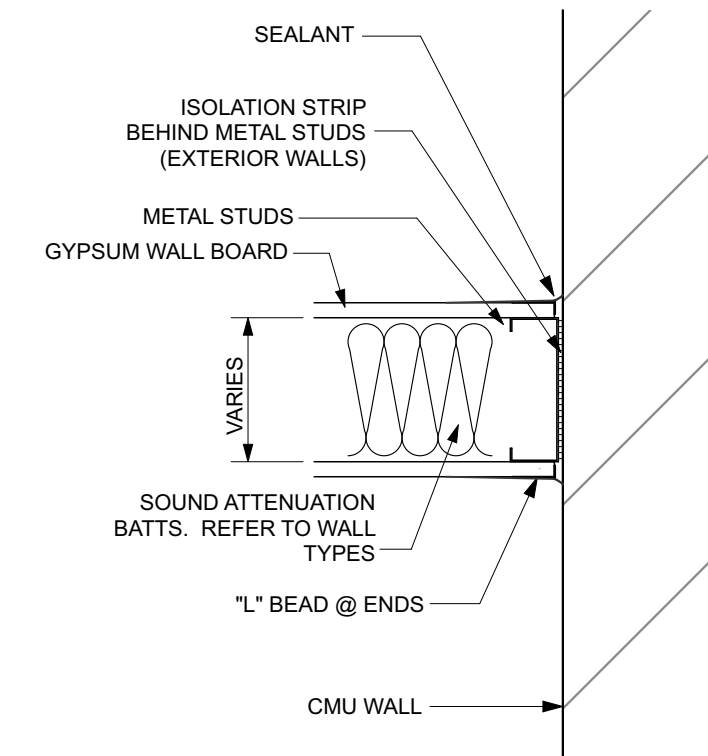
3 ENTRY COLUMN DETAIL
A2.4 SCALE: 1 1/2" = 1'-0"



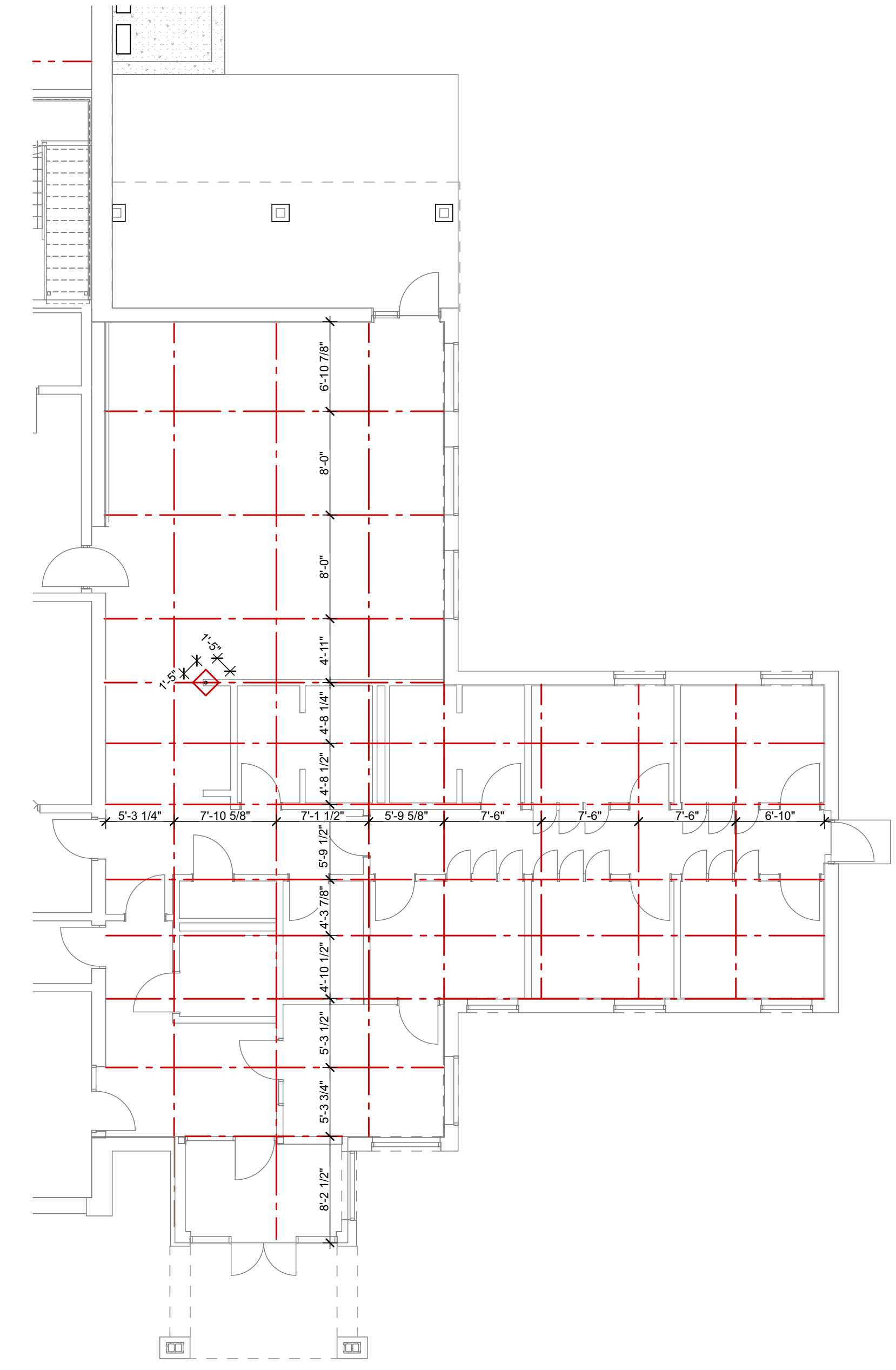
2 CONTROL JOINT
A2.4 SCALE: 1-1/2" = 1'-0"



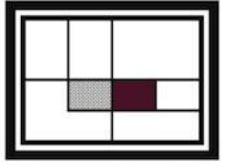
4 METAL RAINSCREEN TO BRICK TRANS.
A2.4 SCALE: 1 1/2" = 1'-0"



5 STUD TO MASONRY WALL INTERSECTION
A2.4 SCALE: 1 1/2" = 1'-0"



6 CONTROL JOINT DIAGRAM
A2.4 SCALE: 1/8" = 1'-0"

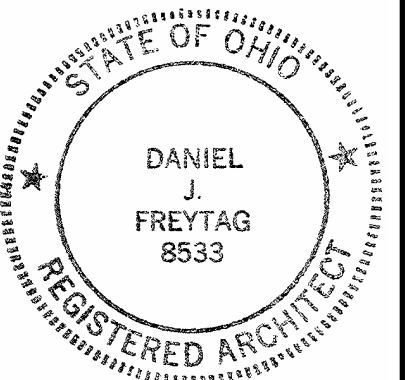


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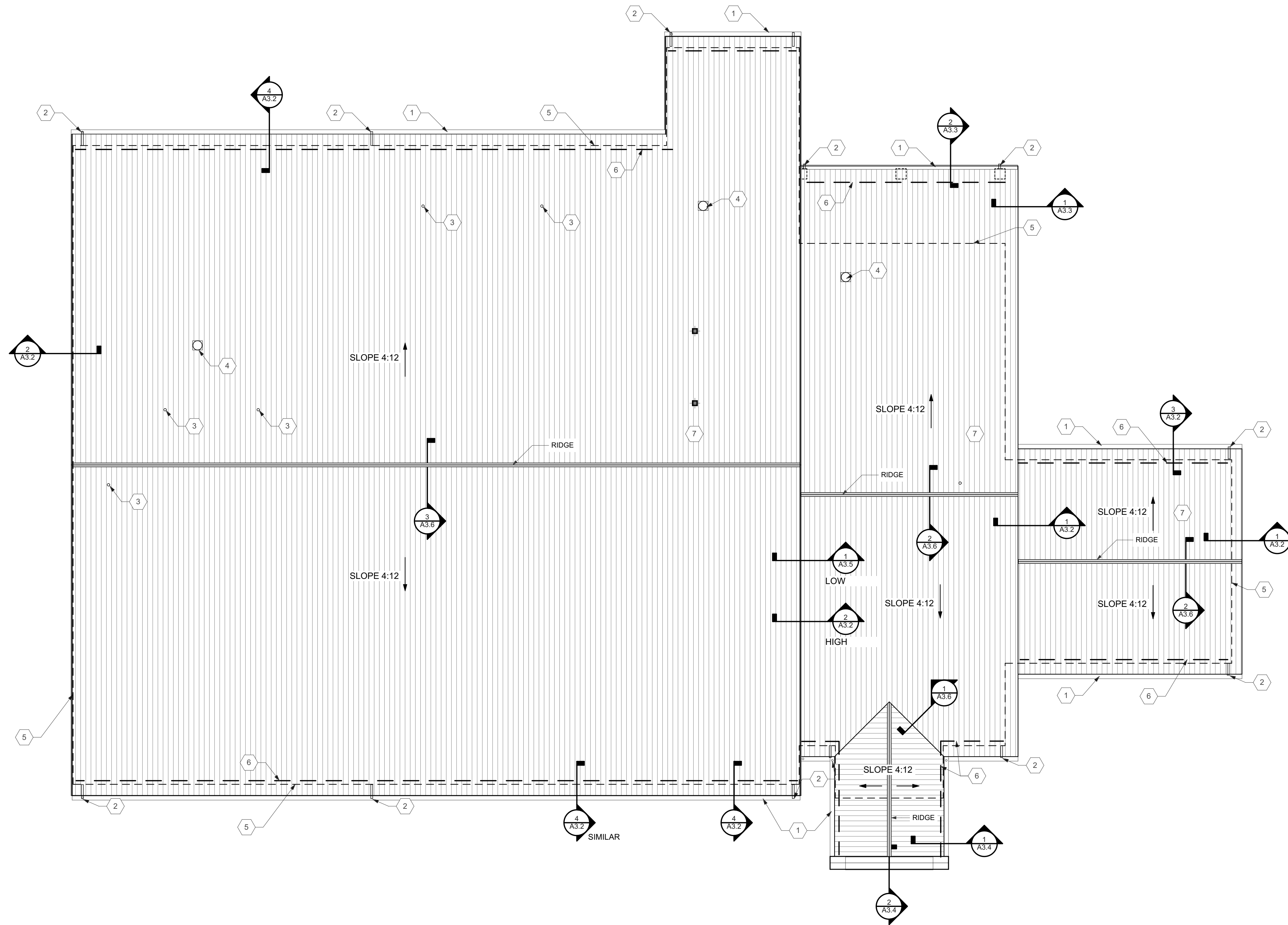
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PLAN DETAILS

A2.4

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A3.A3.1:ROOF PLANS AND DETAILS - ROOF PLAN FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



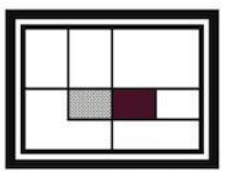
1
A3.1 ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOF KEY NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. PREFORMED METAL GUTTER, REFER TO PROFILE DETAIL AND SPECIFICATIONS.
2. PREFORMED METAL DOWNSPOUT, REFER TO SPECIFICATIONS.
3. FLUE, REFER TO DETAIL AND COORDINATE WITH MECHANICAL DRAWINGS.
4. MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL DRAWINGS.
5. BUILDING PROFILE BELOW.
6. SNOW GUARDS, REFER TO SPECIFICATIONS.
7. LIGHTING PROTECTION, ALTERNATE BID, SEE ELECTRICAL.

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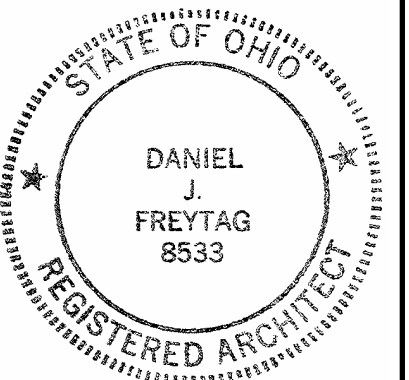


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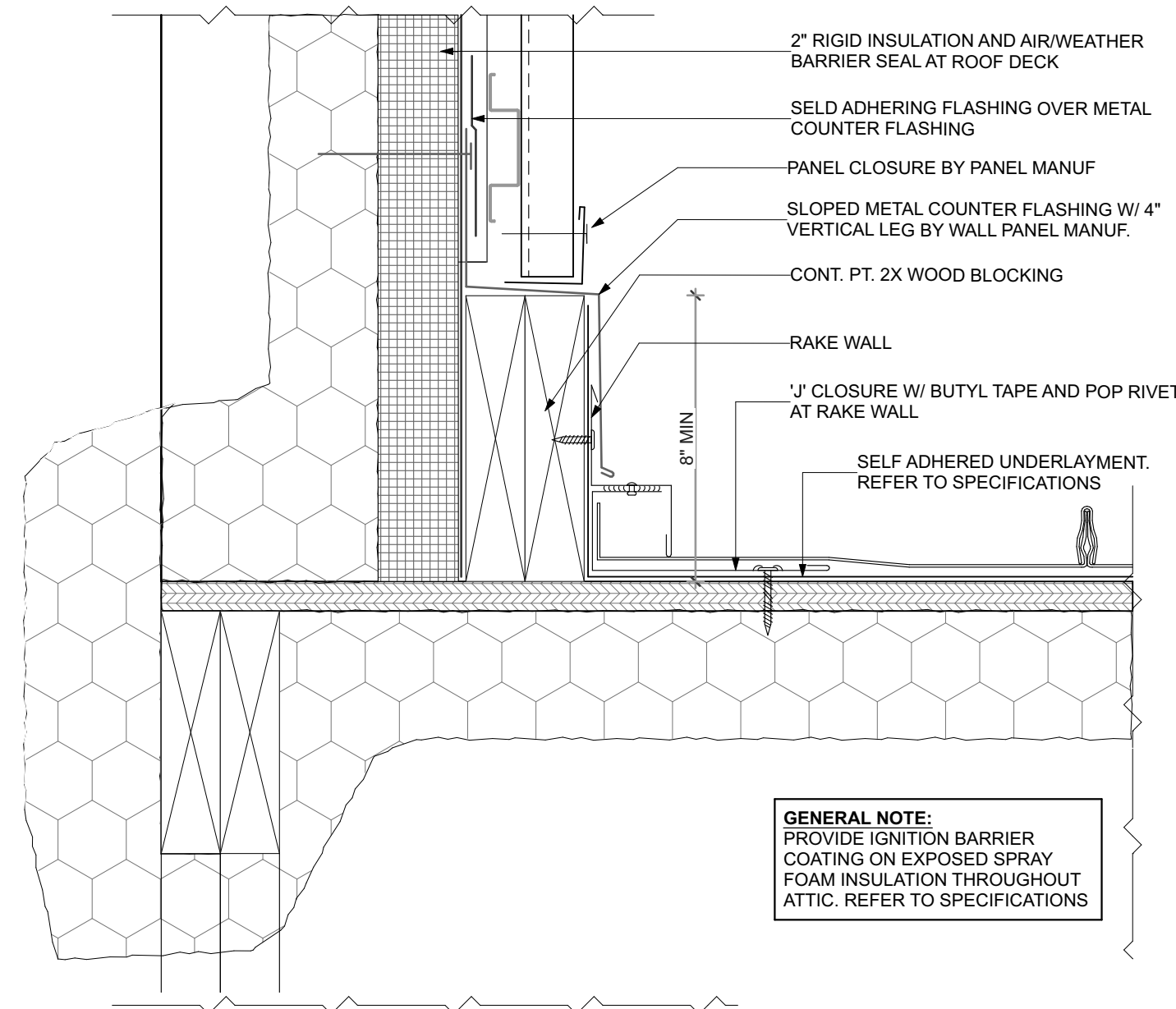
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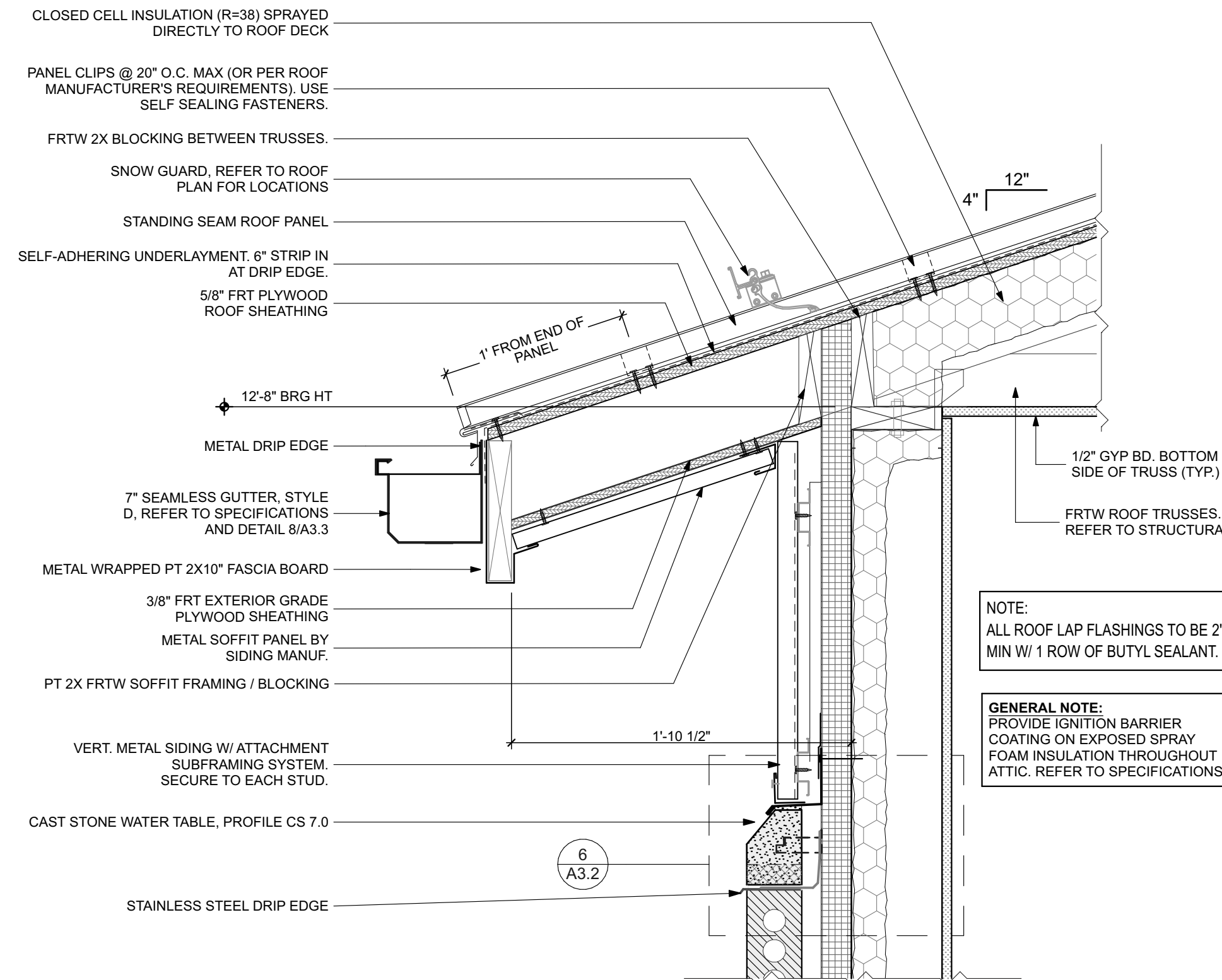
ROOF PLAN

A3.1

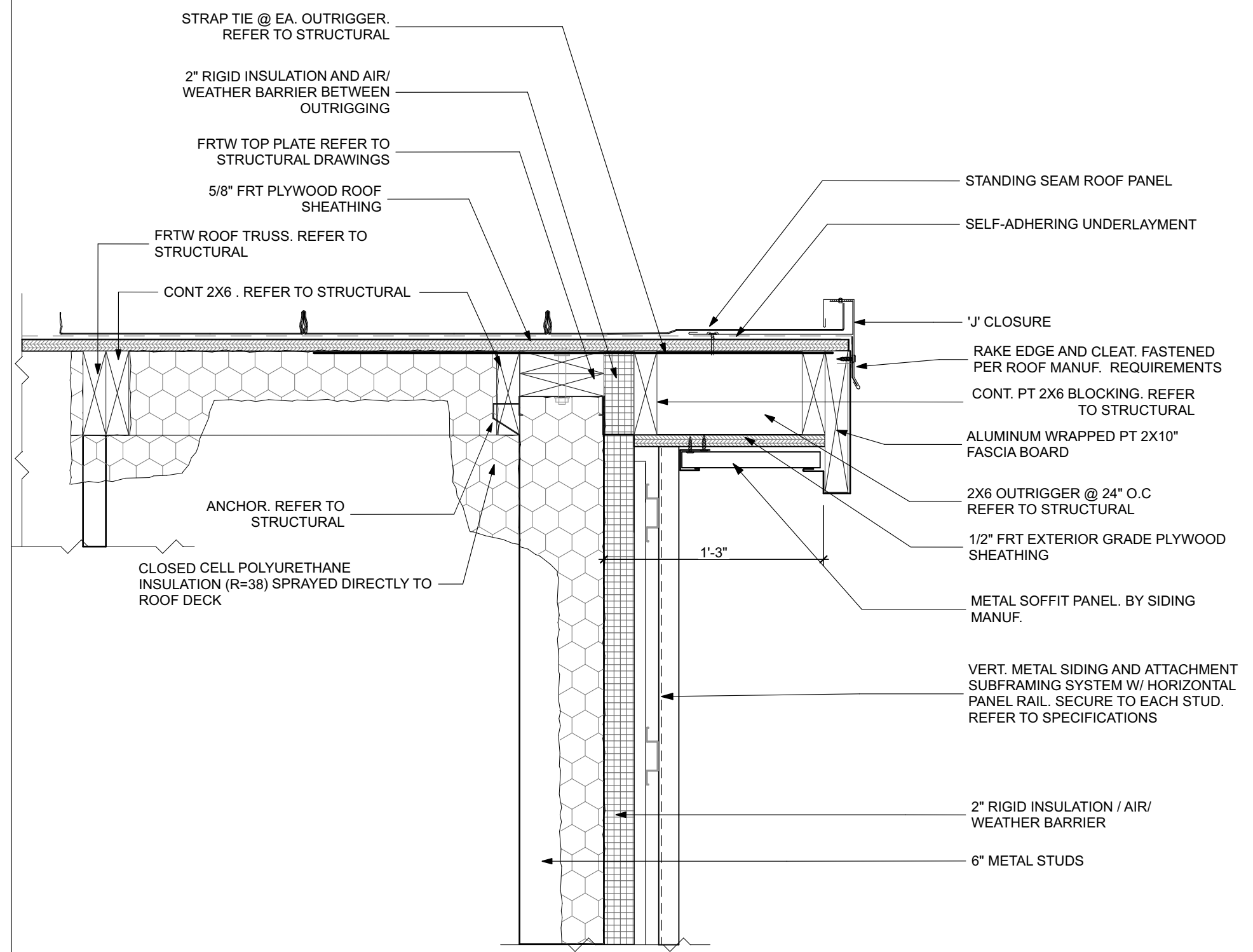
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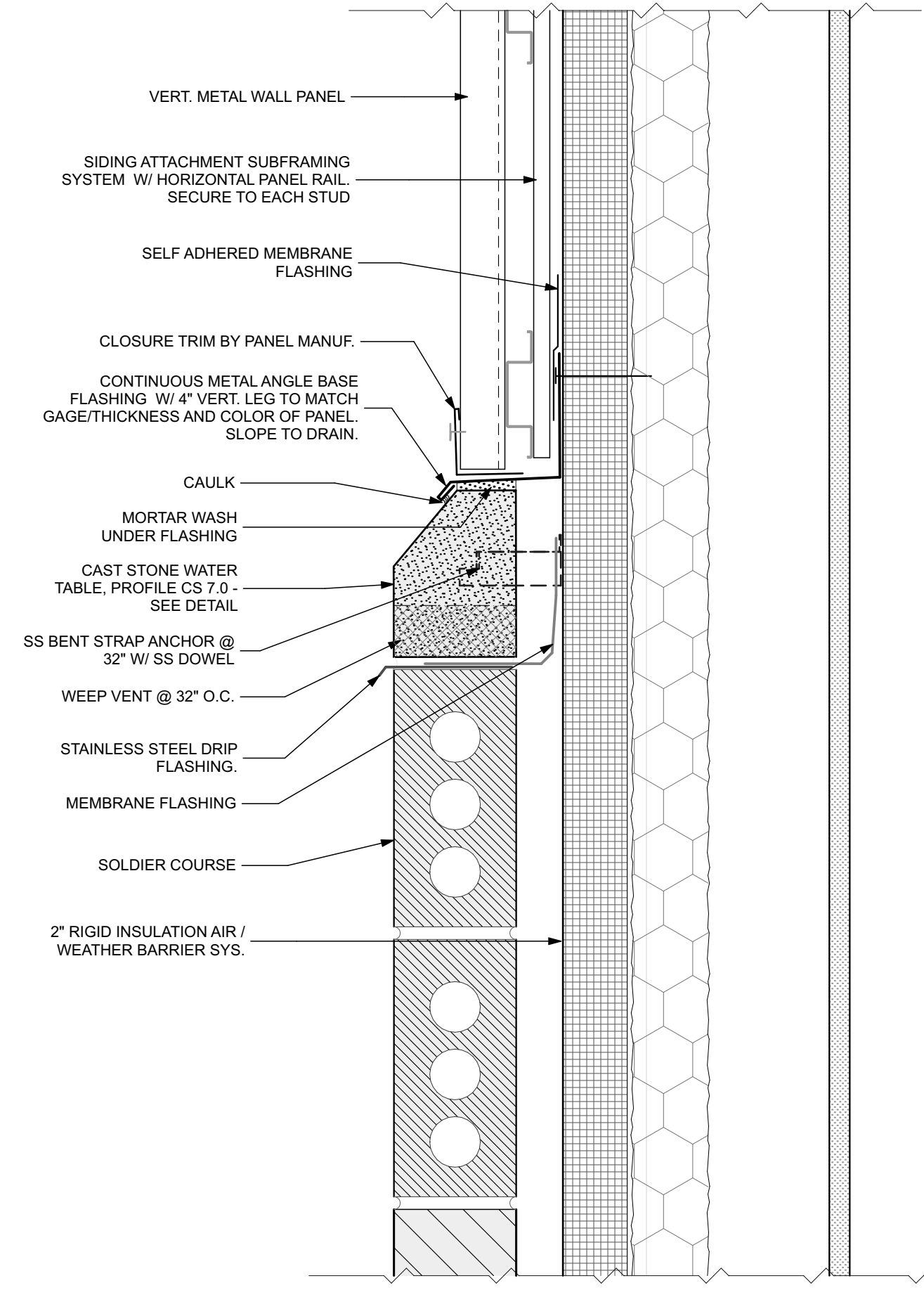
5 ROOF FLASHING DETAIL
SCALE: 3" = 1'-0"



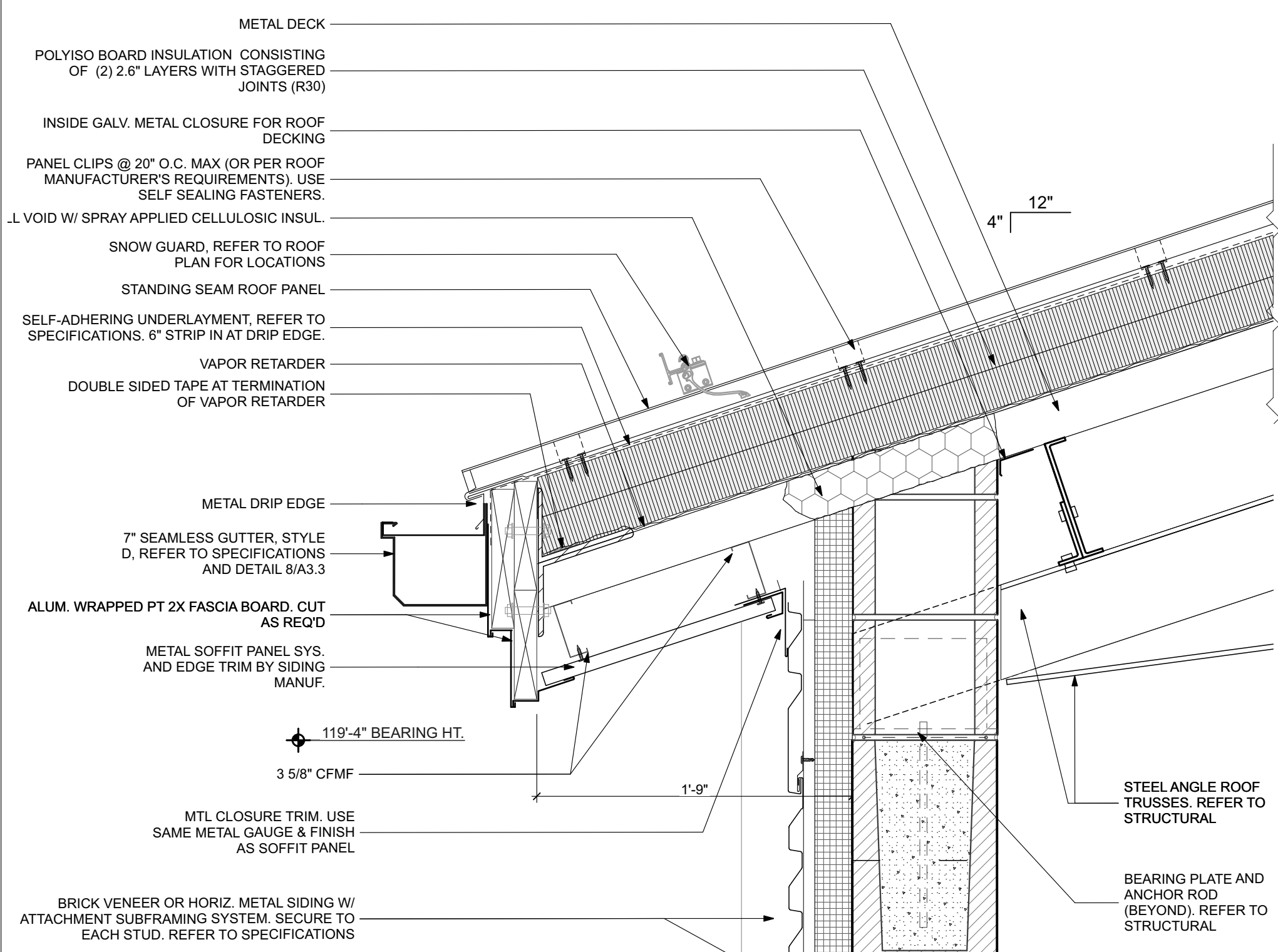
3 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



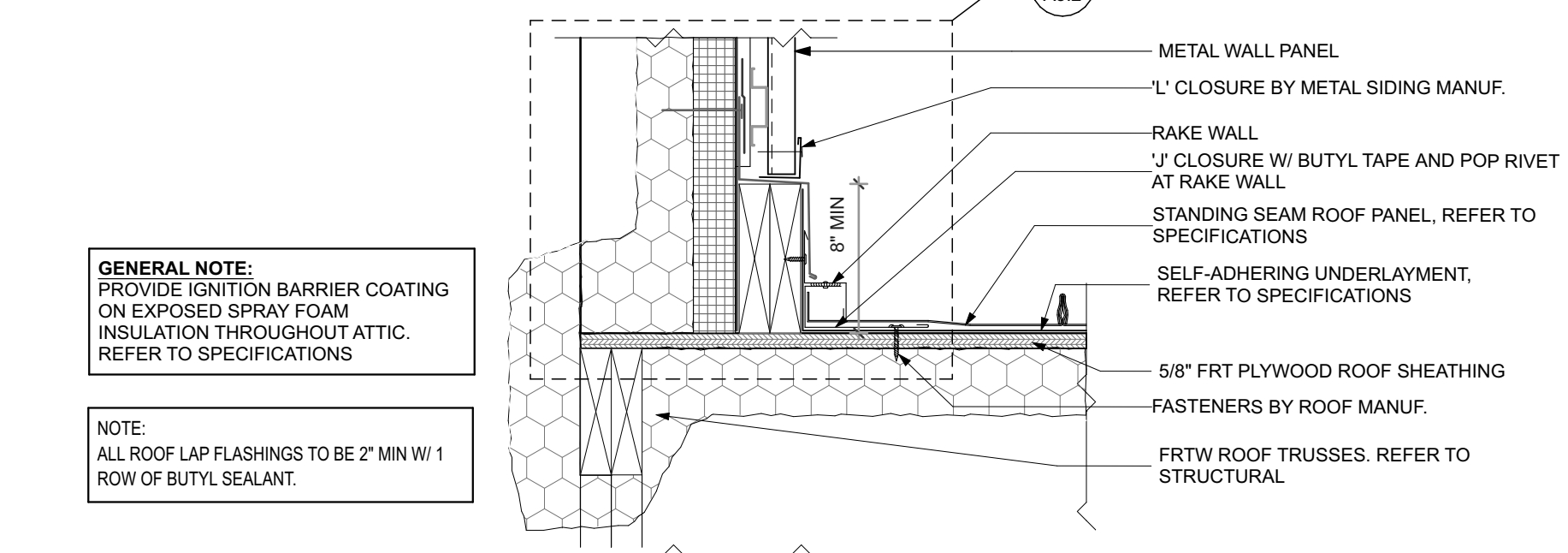
1 GABLE END RAKE DETAIL
SCALE: 1 1/2" = 1'-0"



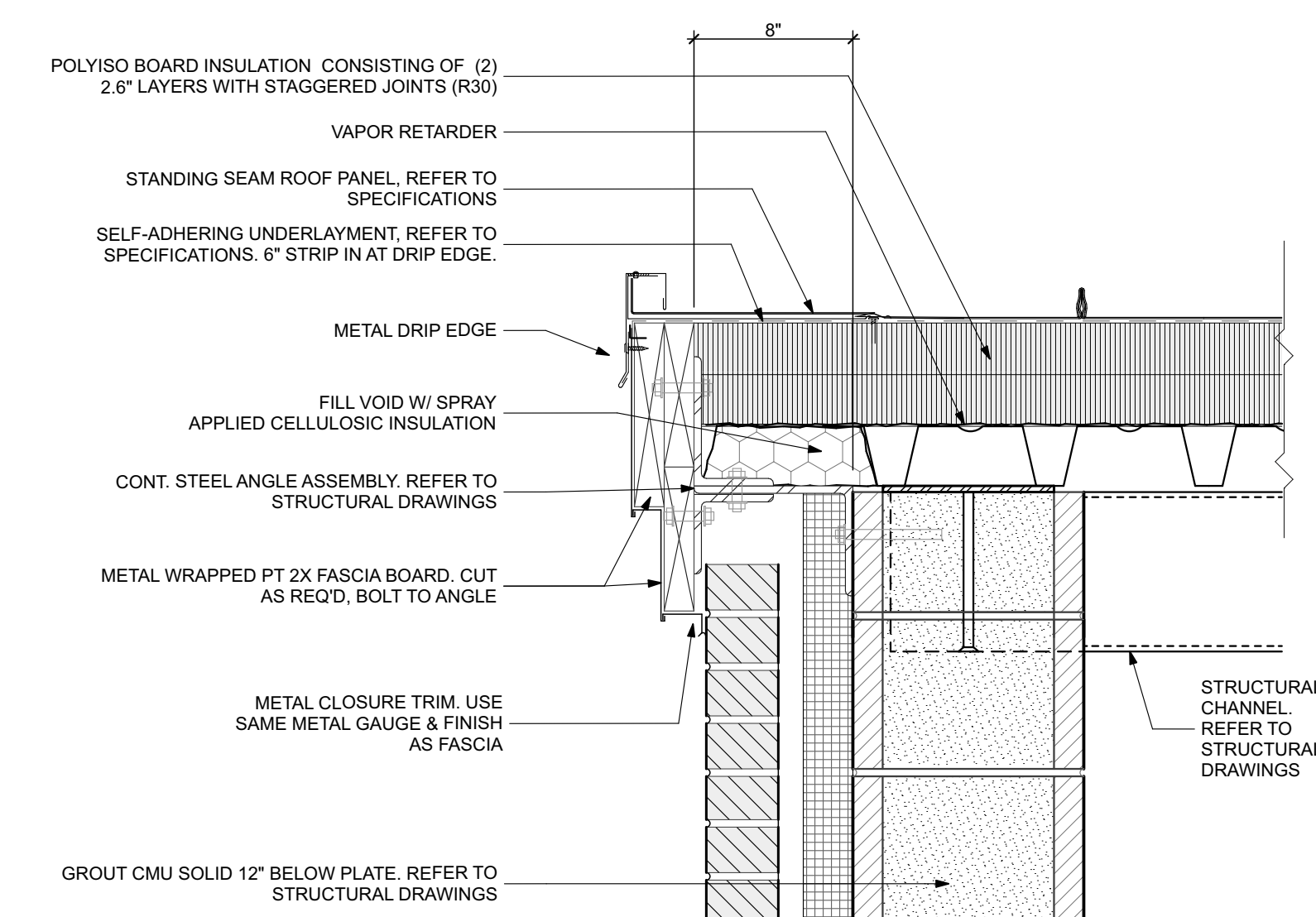
6 SIDING TO STONE TRANSITION DETAIL
SCALE: 3" = 1'-0"



4 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"

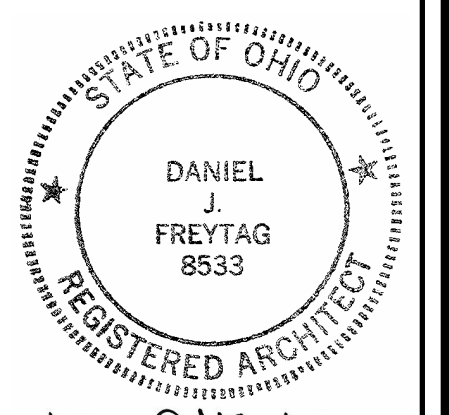


2 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



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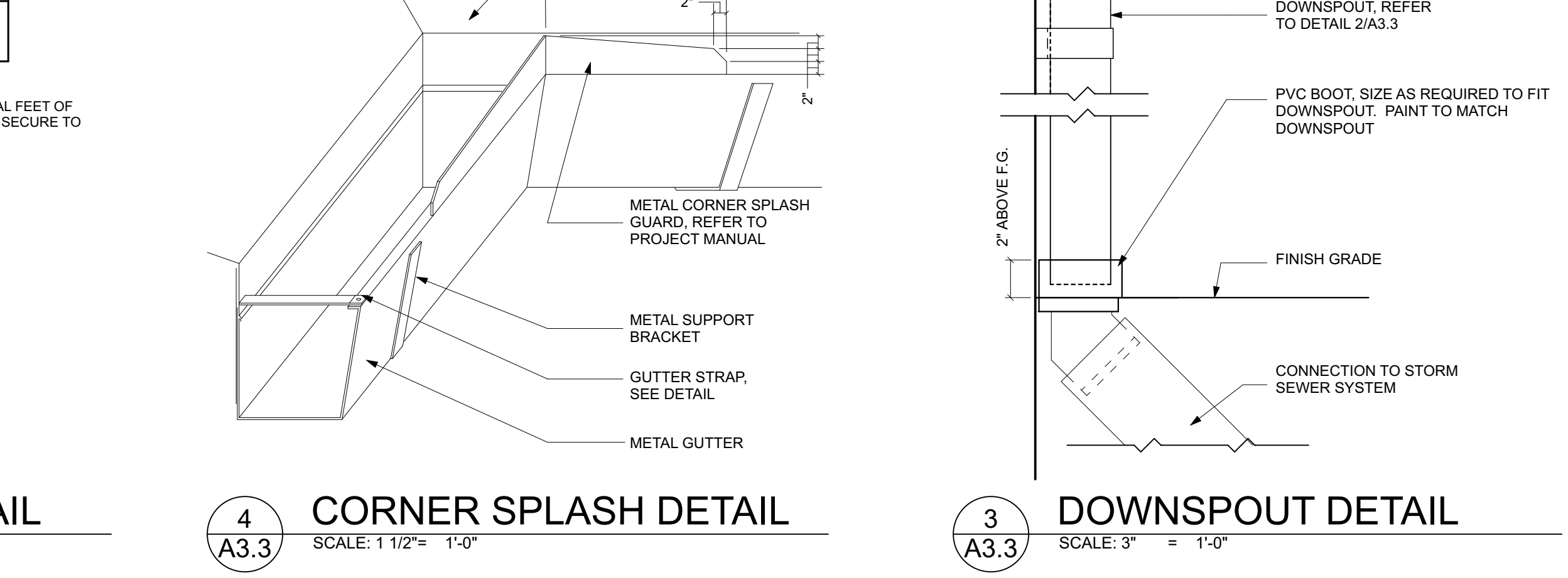
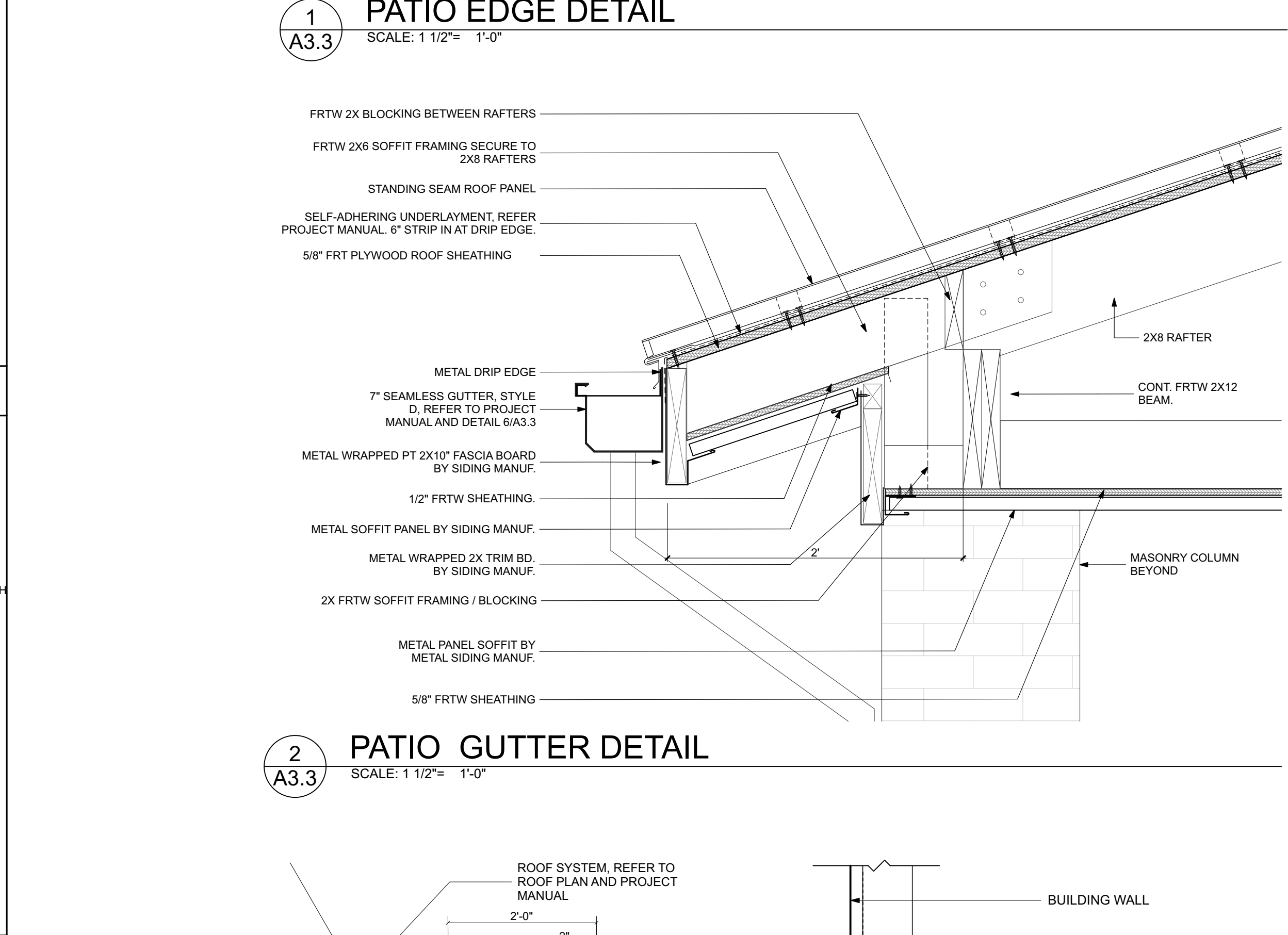
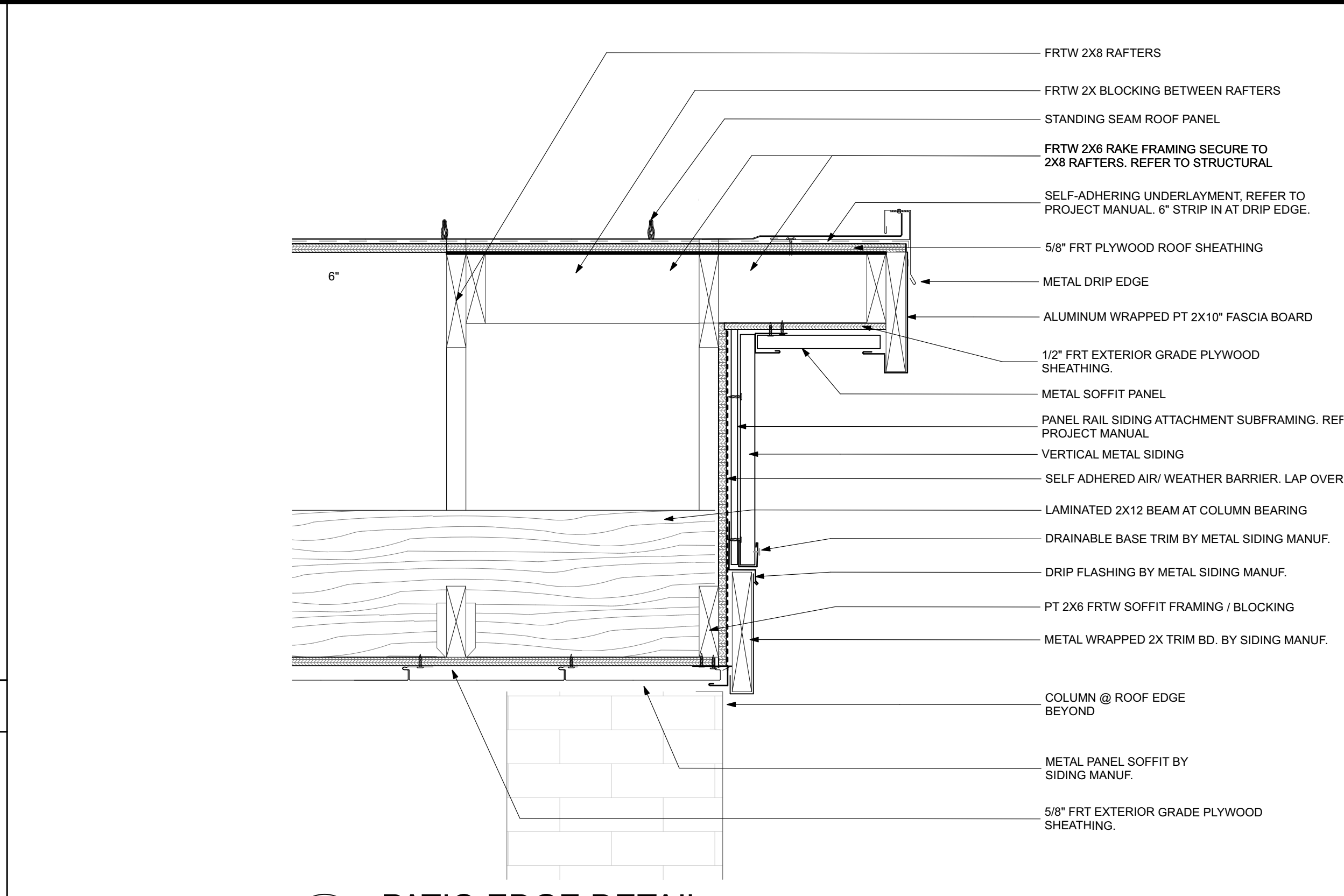
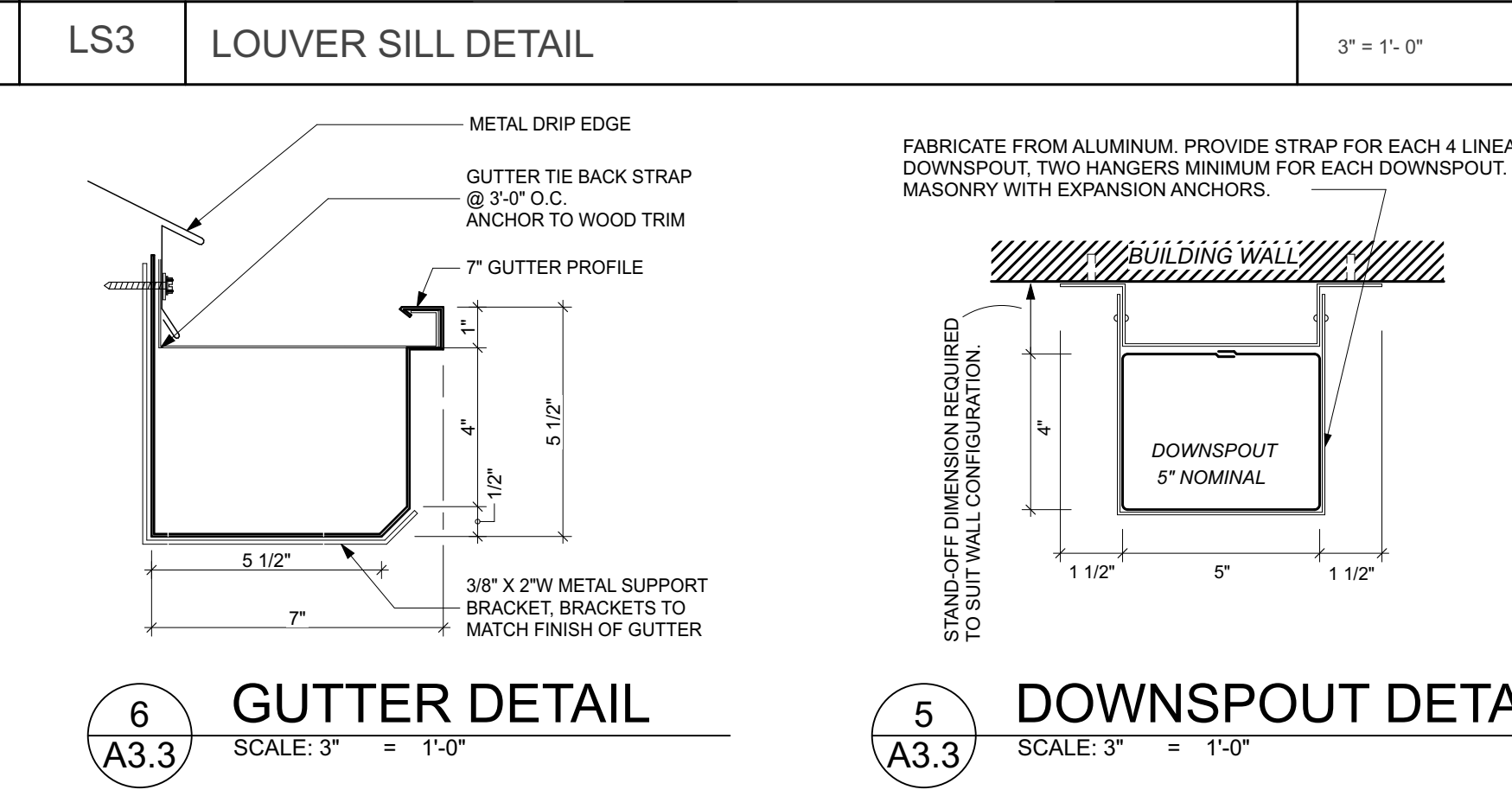
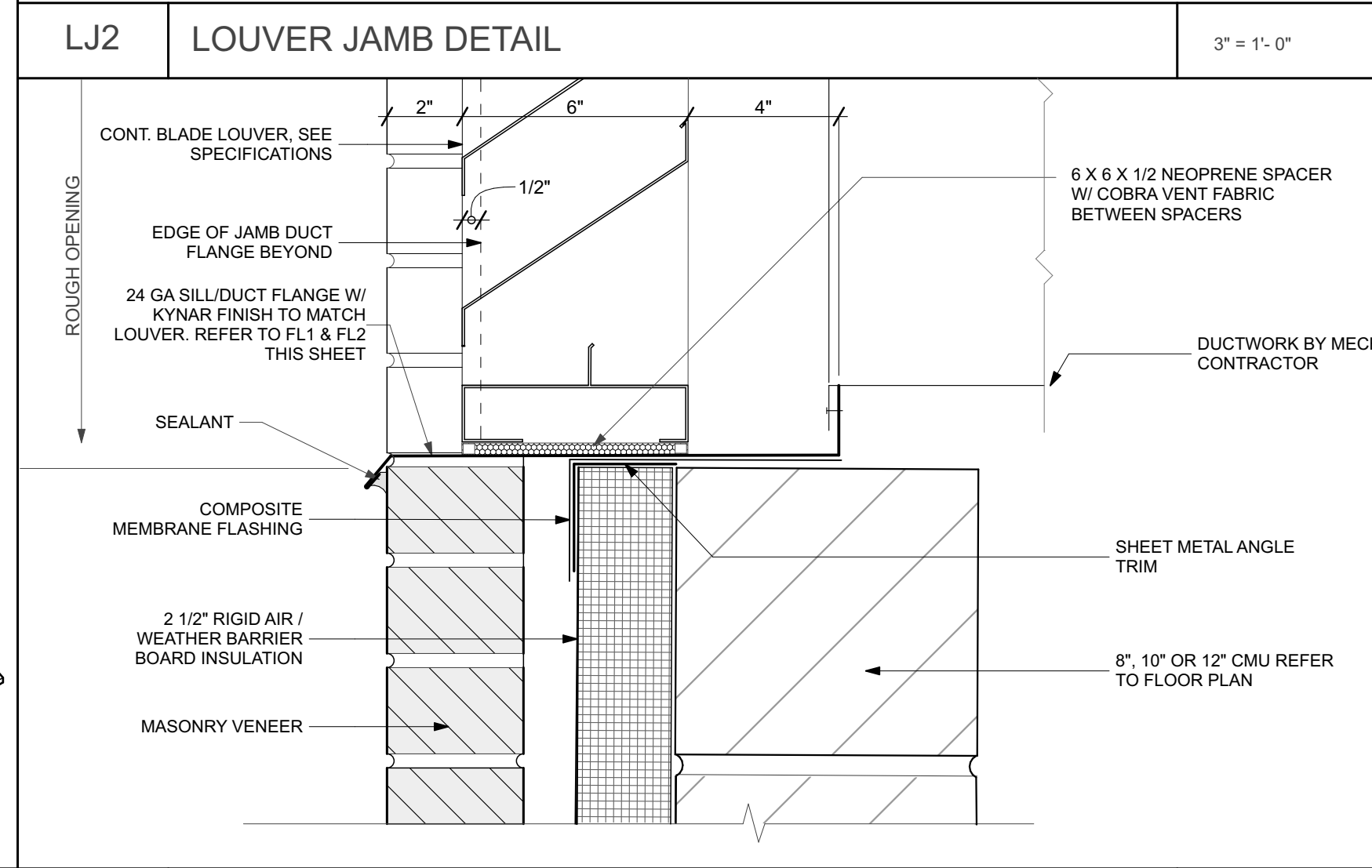
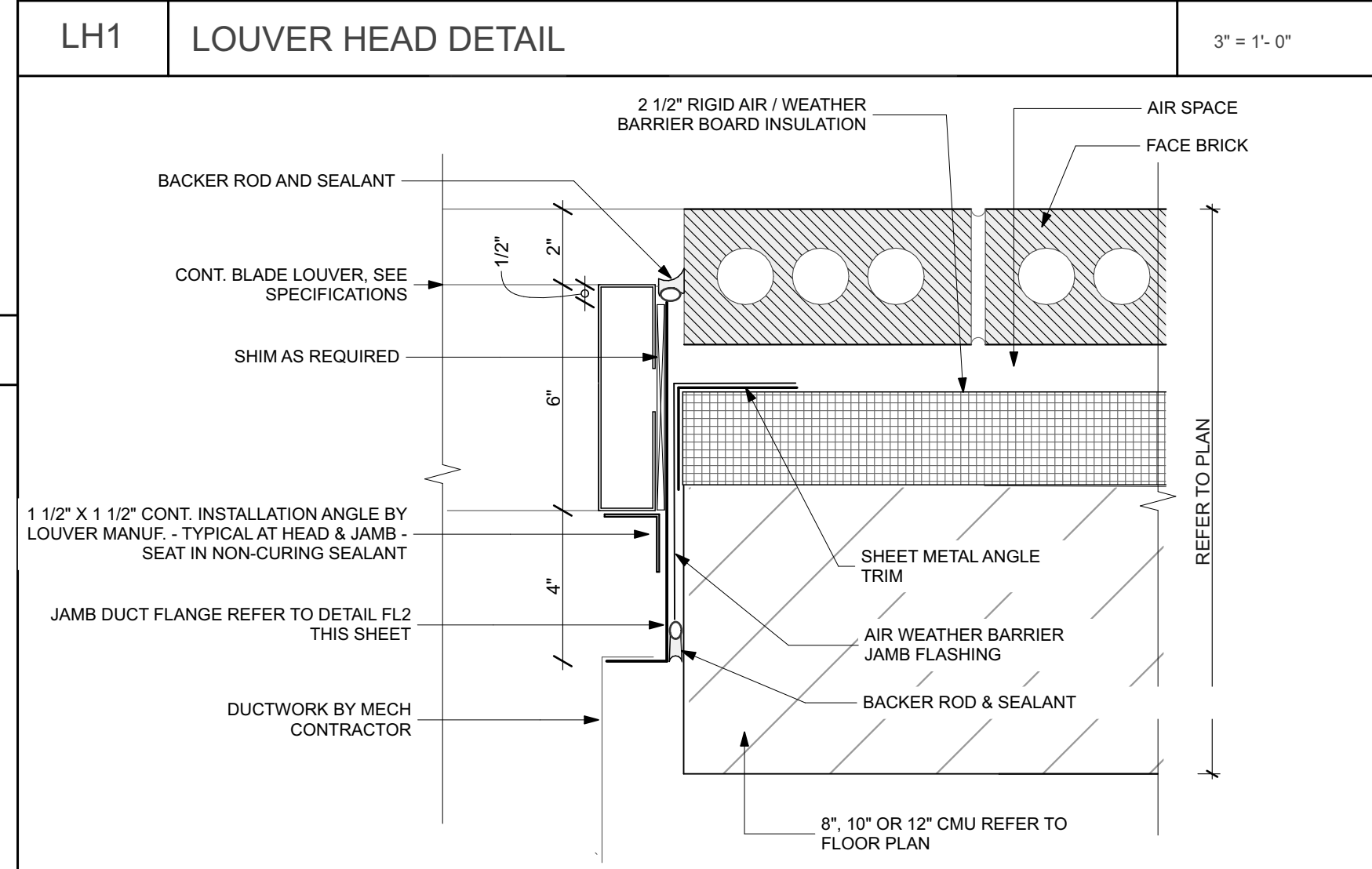
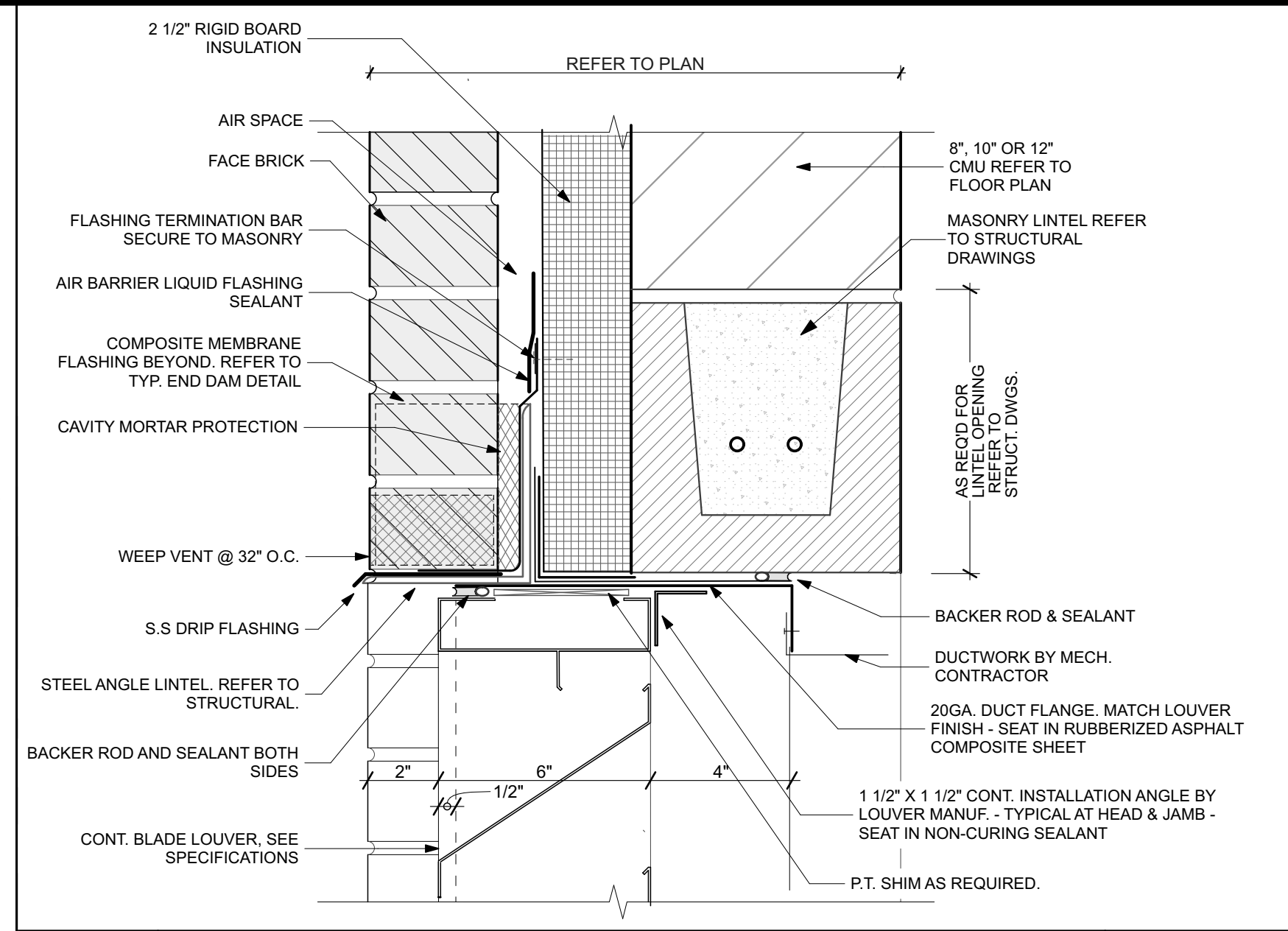
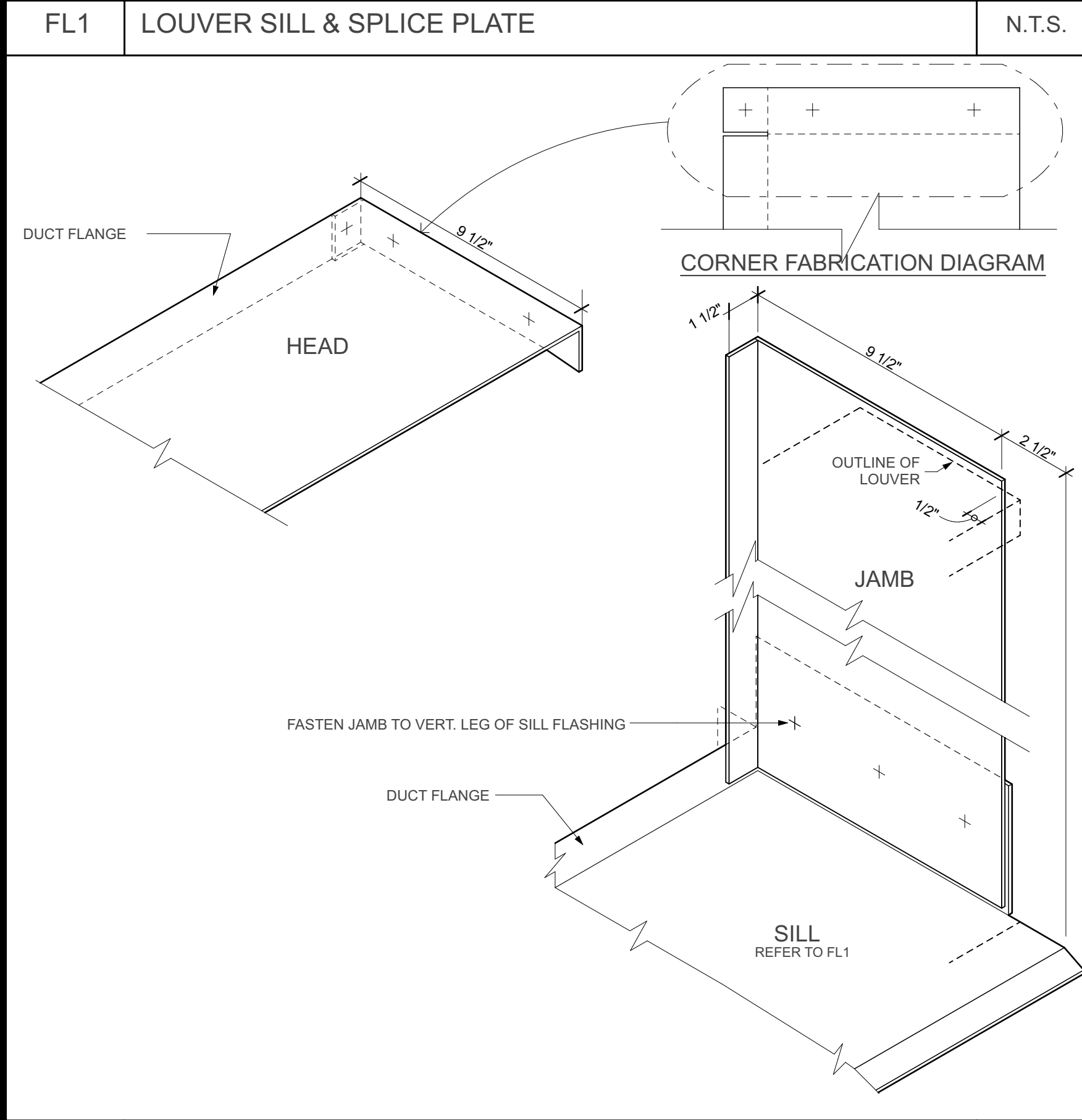
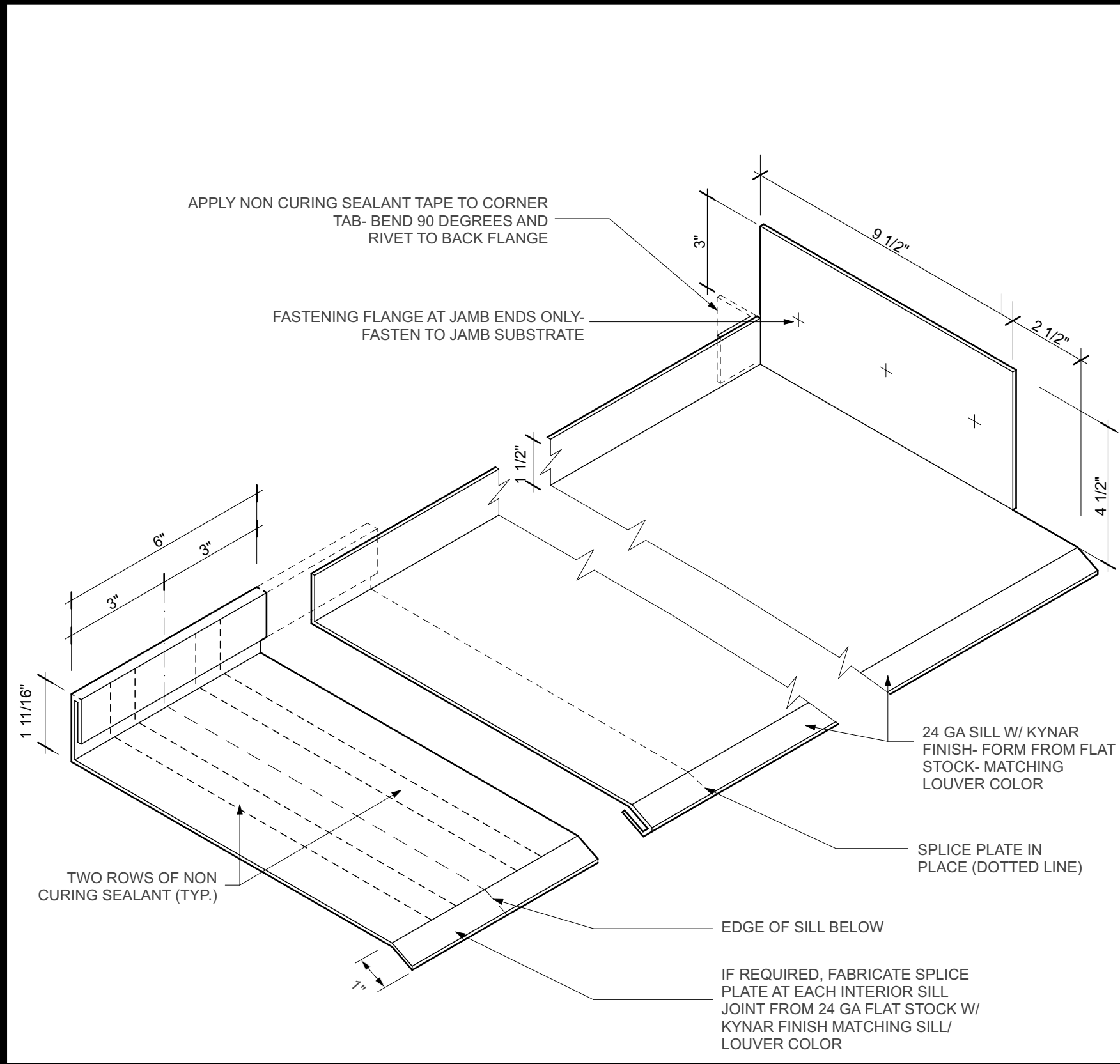
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ROOF DETAILS

A3.2

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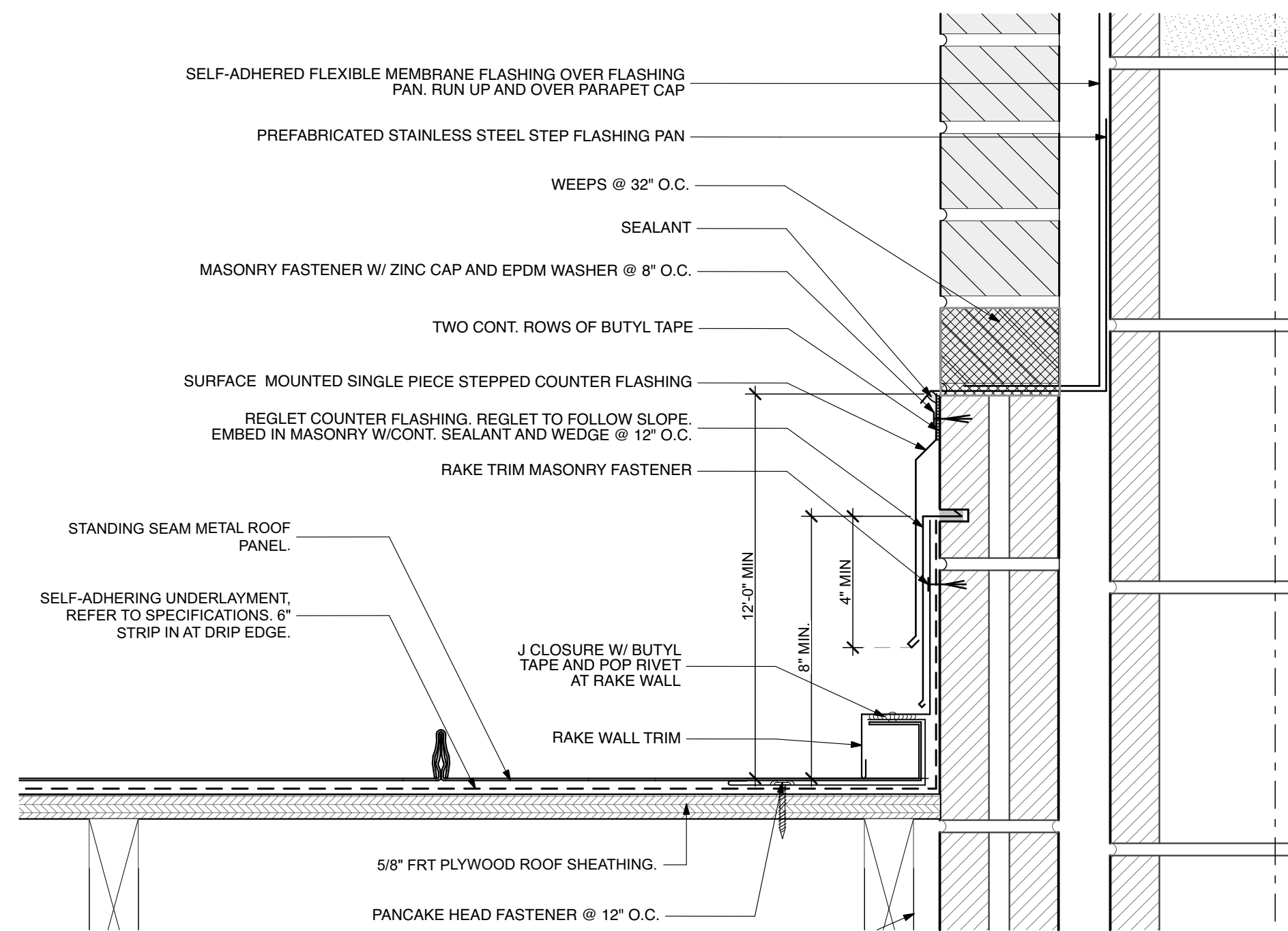
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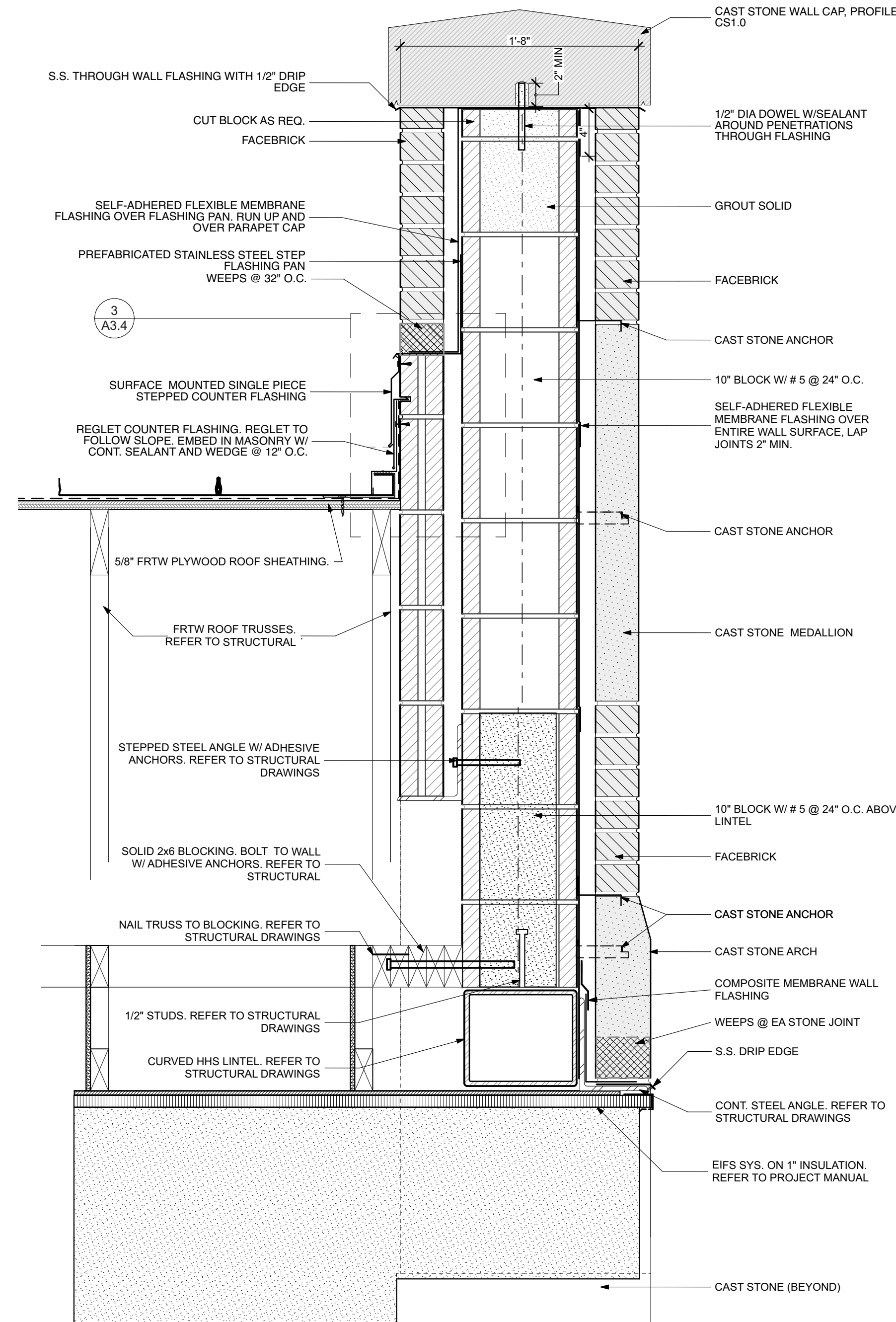
ROOF, GUTTER & LOUVER DETAILS

A3.3

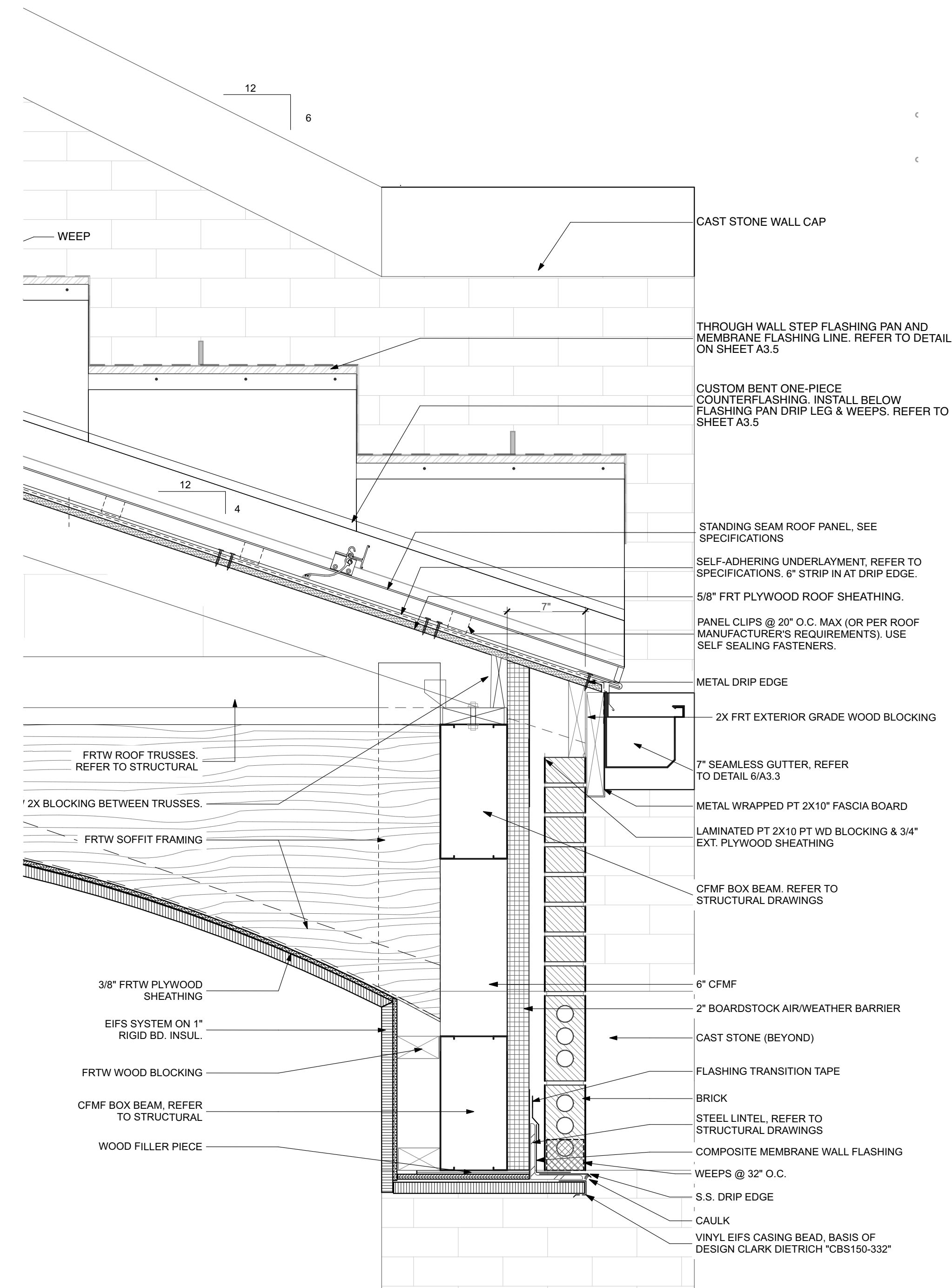
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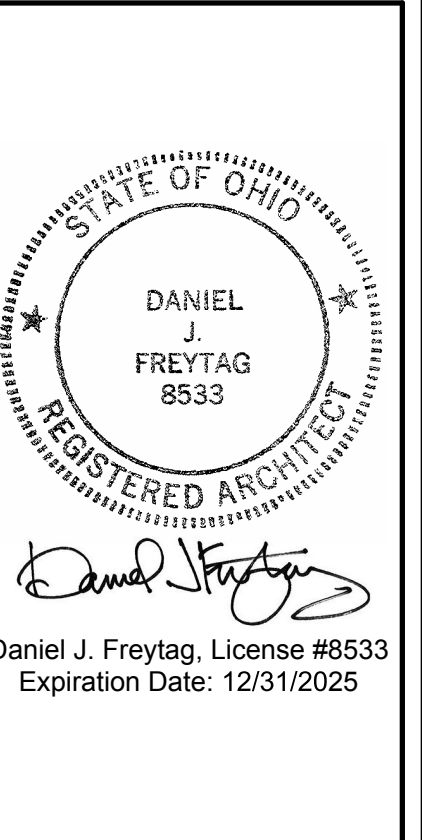
3
A3.4 STEP FLASHING DETAIL
SCALE: 3" = 1'-0"



2
A3.4 ENTRY PORCH SECTION
SCALE: 1 1/2" = 1'-0"



1
A3.4 ENTRY GUTTER DETAIL AND SOFFIT
SCALE: 1 1/2" = 1'-0"



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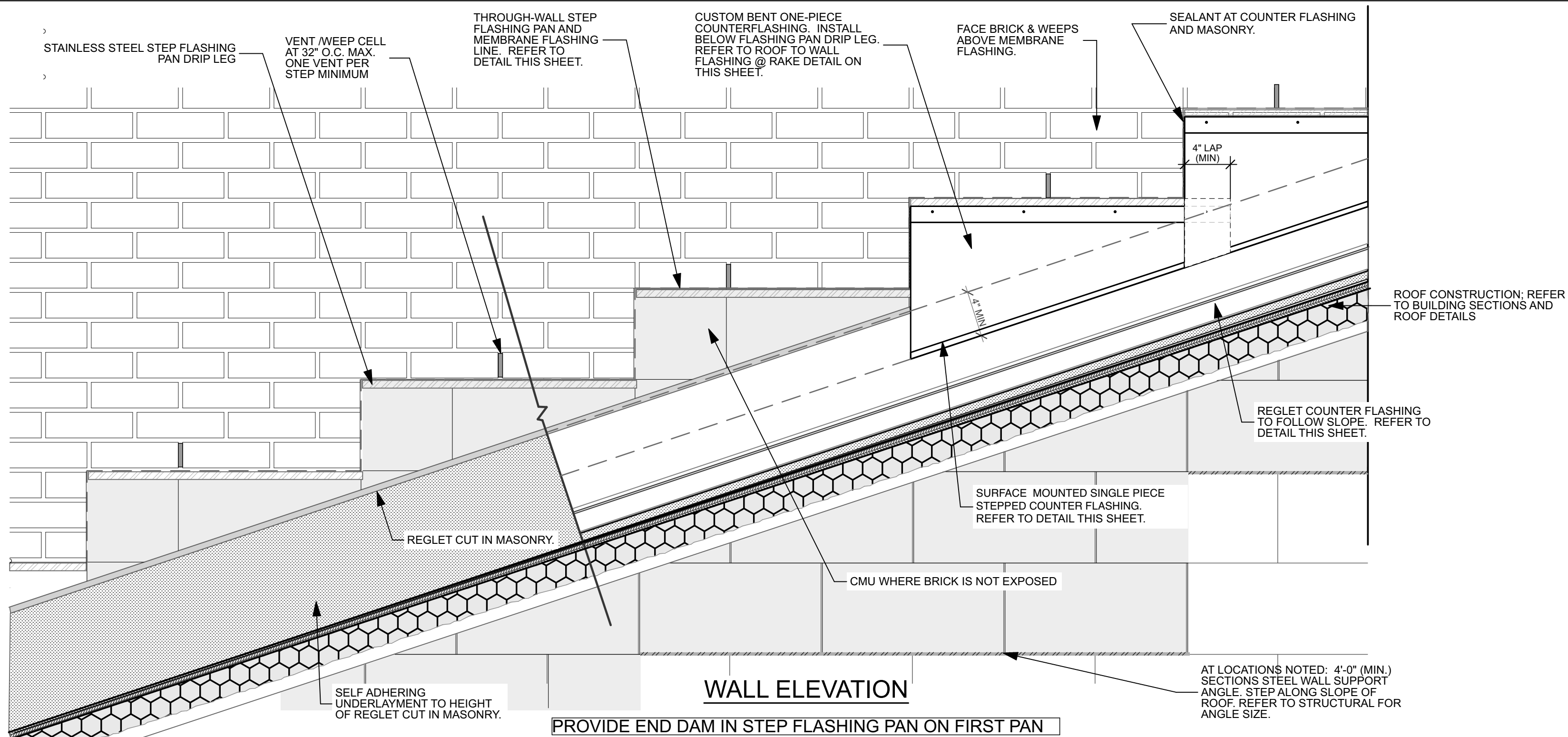
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ROOF DETAILS

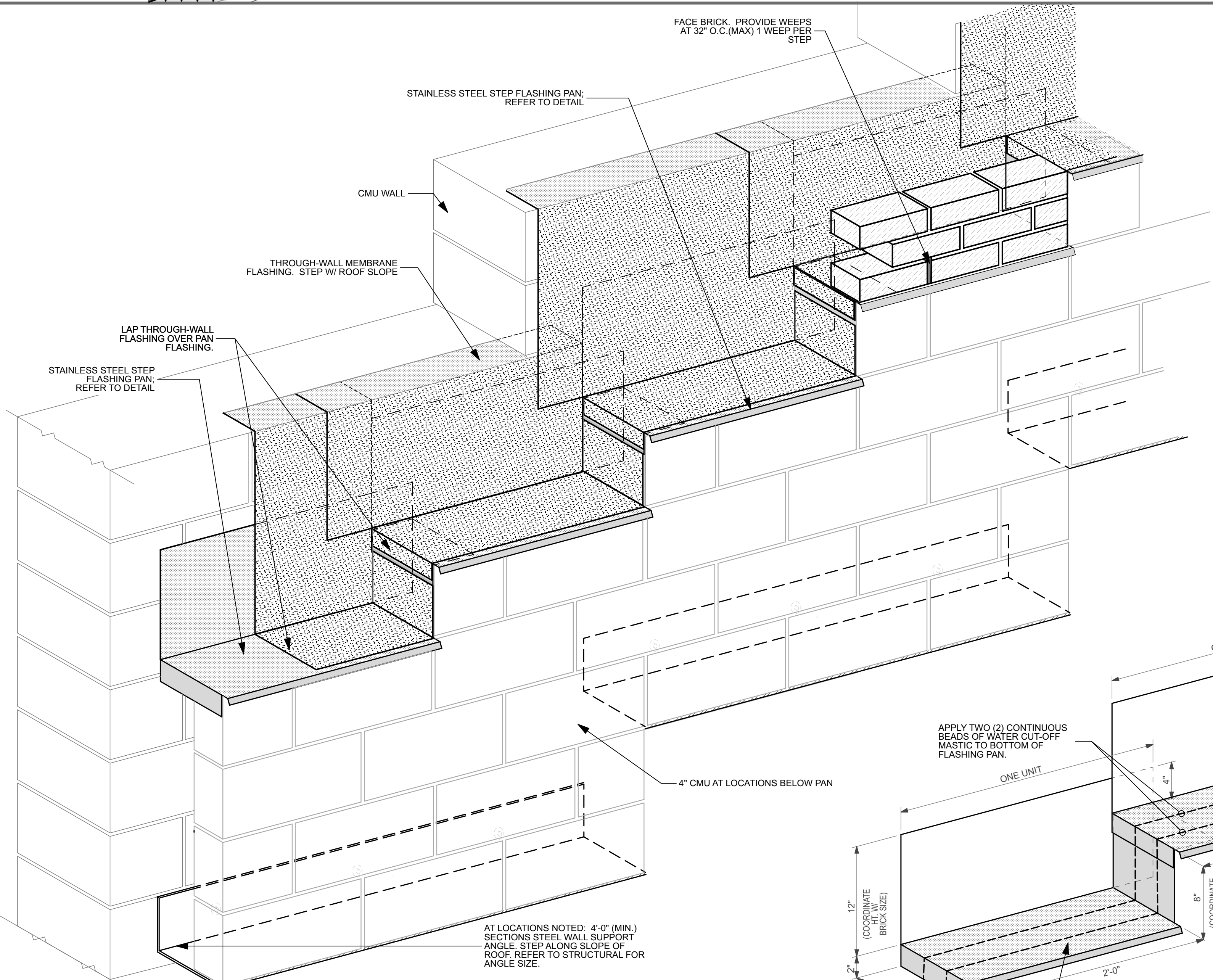
A3.4

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A3.5 ROOF PLANS AND DETAILS - ROOF DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



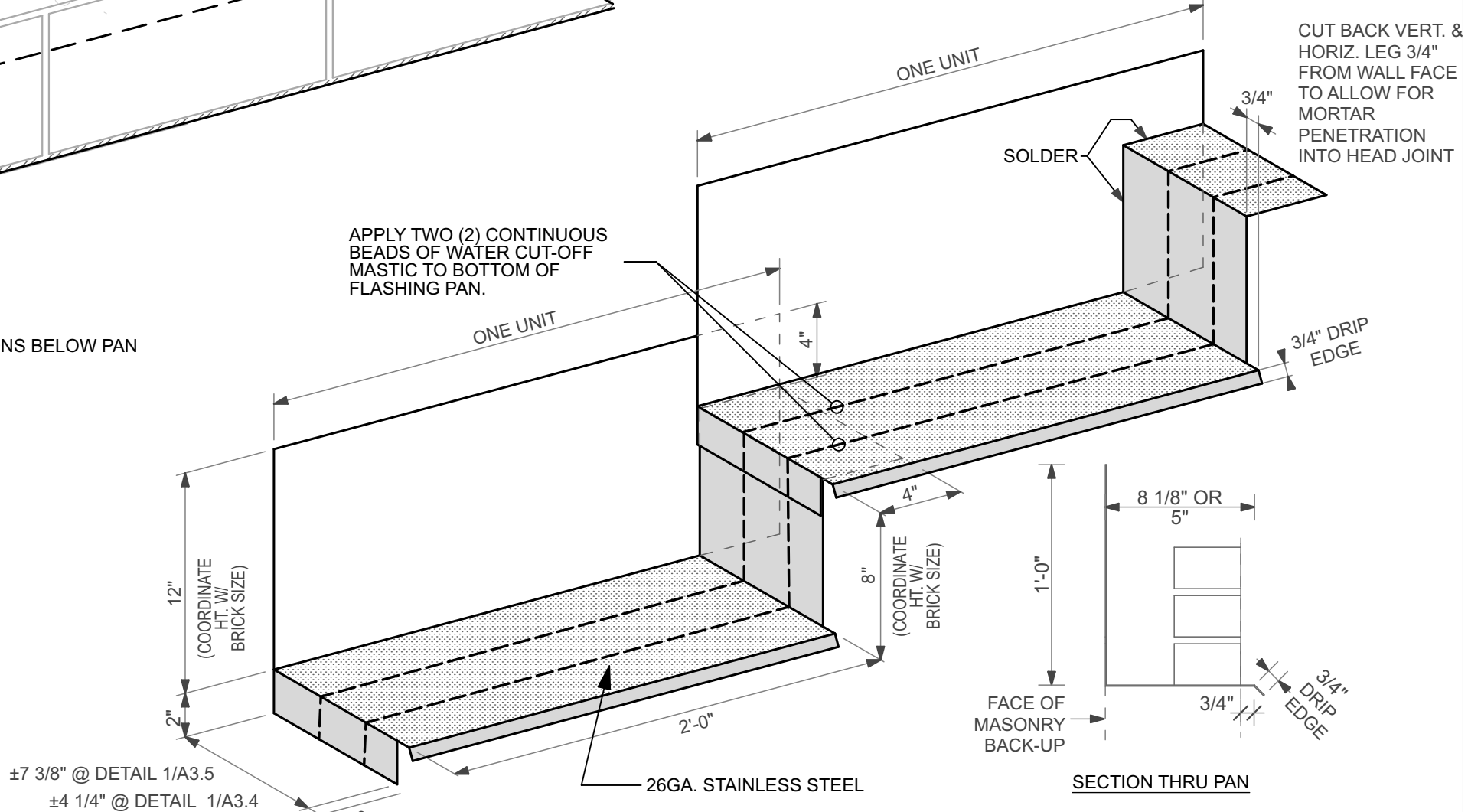
WALL ELEVATION

PROVIDE END DAM IN STEP FLASHING PAN ON FIRST PAN

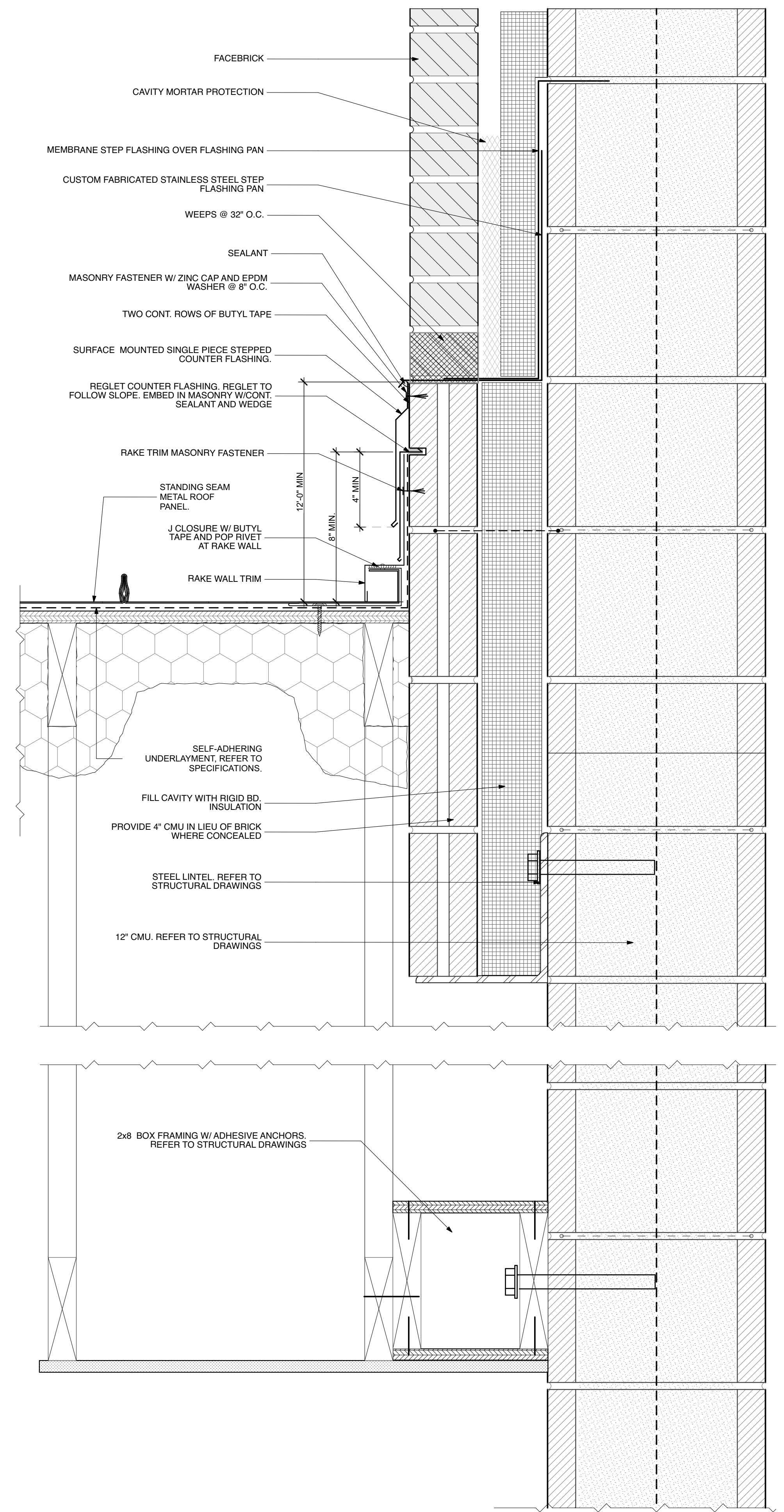


THRU-WALL FLASHING & WALL CONSTRUCTION ISOMETRIC

* NOTE: CAVITY WALL INSULATION AND WALL REINFORCING IS NOT SHOWN FOR CLARITY



CUSTOM FABRICATED STAINLESS STEEL STEP FLASHING PAN DETAIL



1 ROOF TO WALL FLASHING AT RAKE

A3.5 SCALE: 3" = 1'-0"

2 TYPICAL THROUGH WALL STEP FLASHING DETAIL @ ROOF RAKE

A3.5 1 1/2" = 1'-0"

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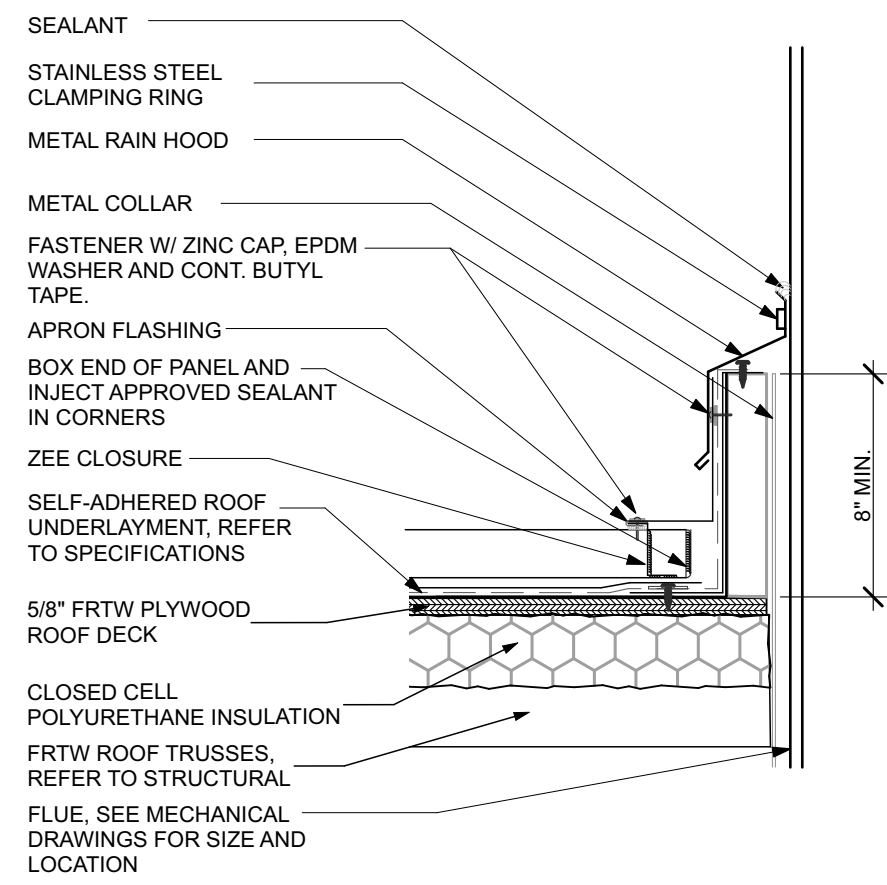
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 8533
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 Daniel J. Freytag
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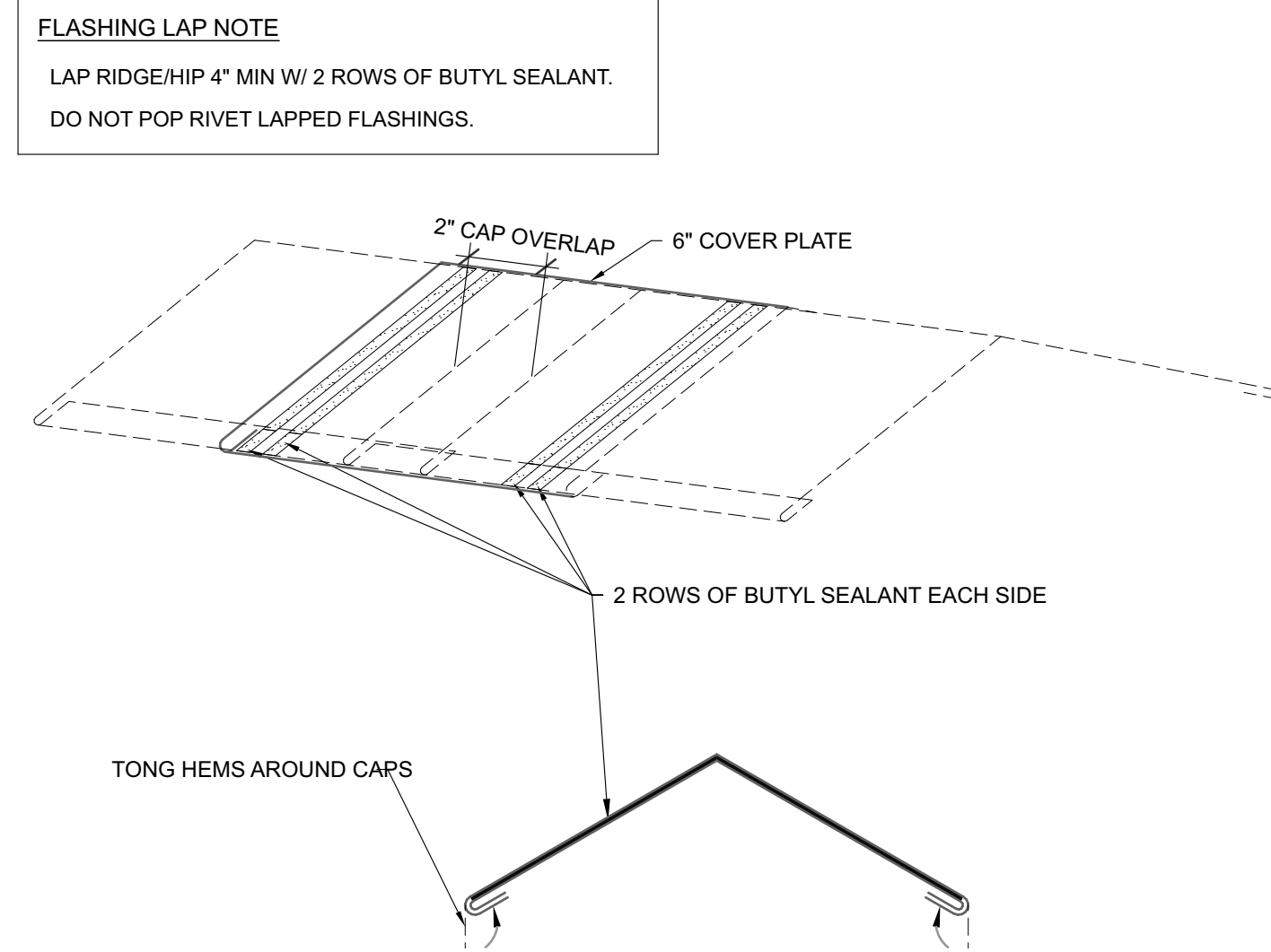
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ROOF DETAILS
A3.5

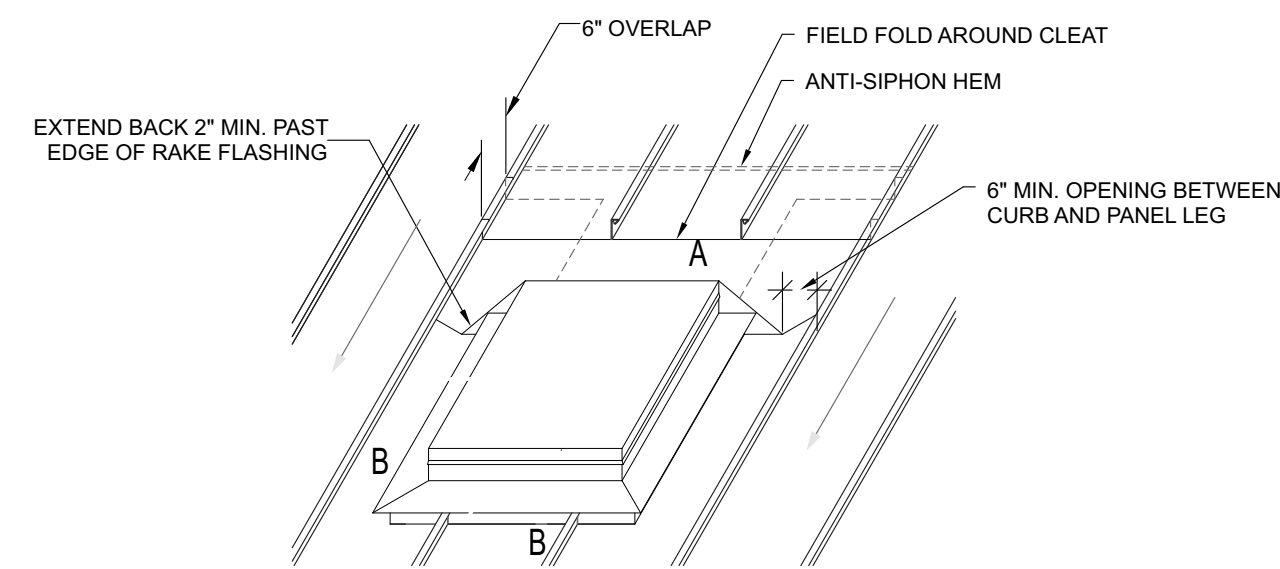
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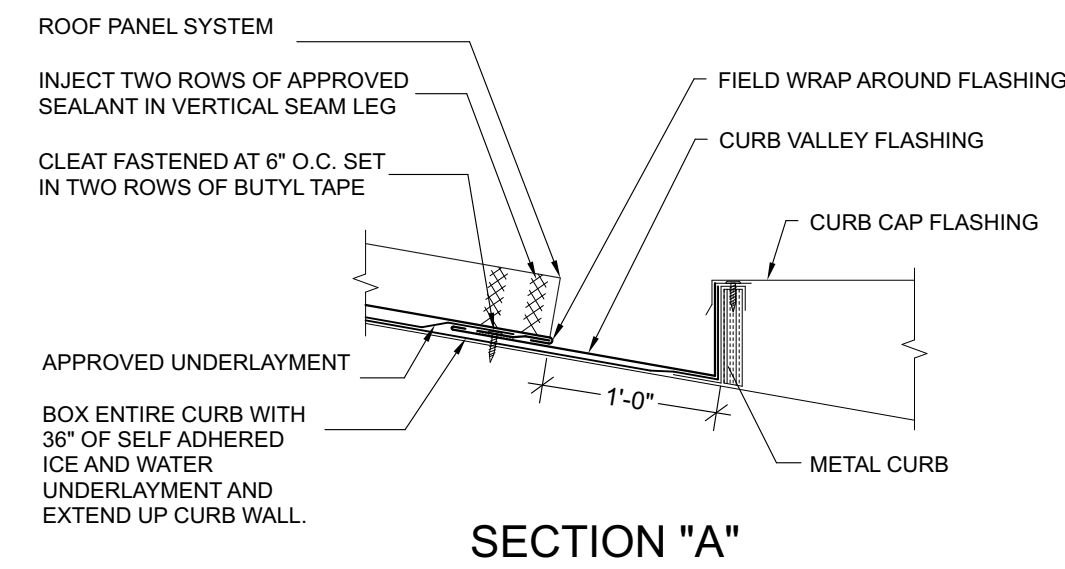
7 FLUE DETAIL
SCALE: 1 1/2" = 1'-0"



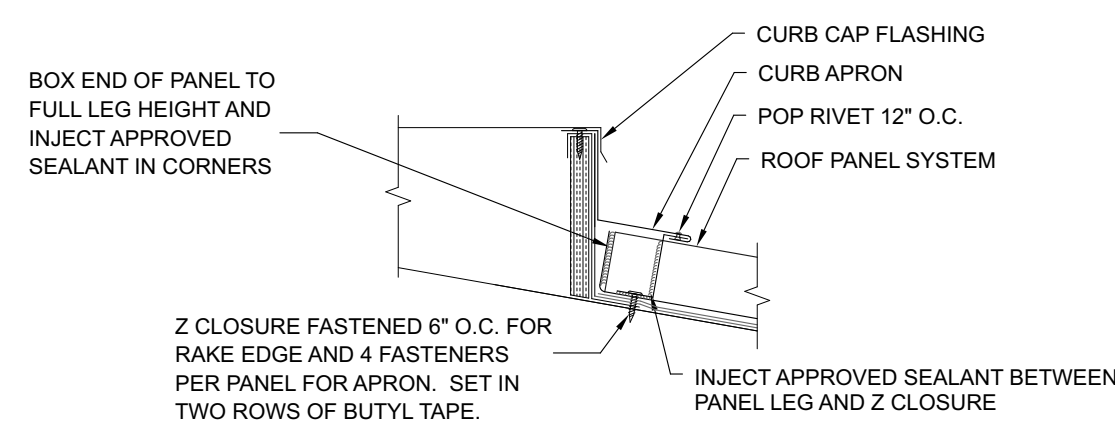
5 RIDGE COVER PLATE
SCALE: 3" = 1'-0"



CURB DETAIL INSTRUCTIONS
4'-0" WIDTH OR LESS

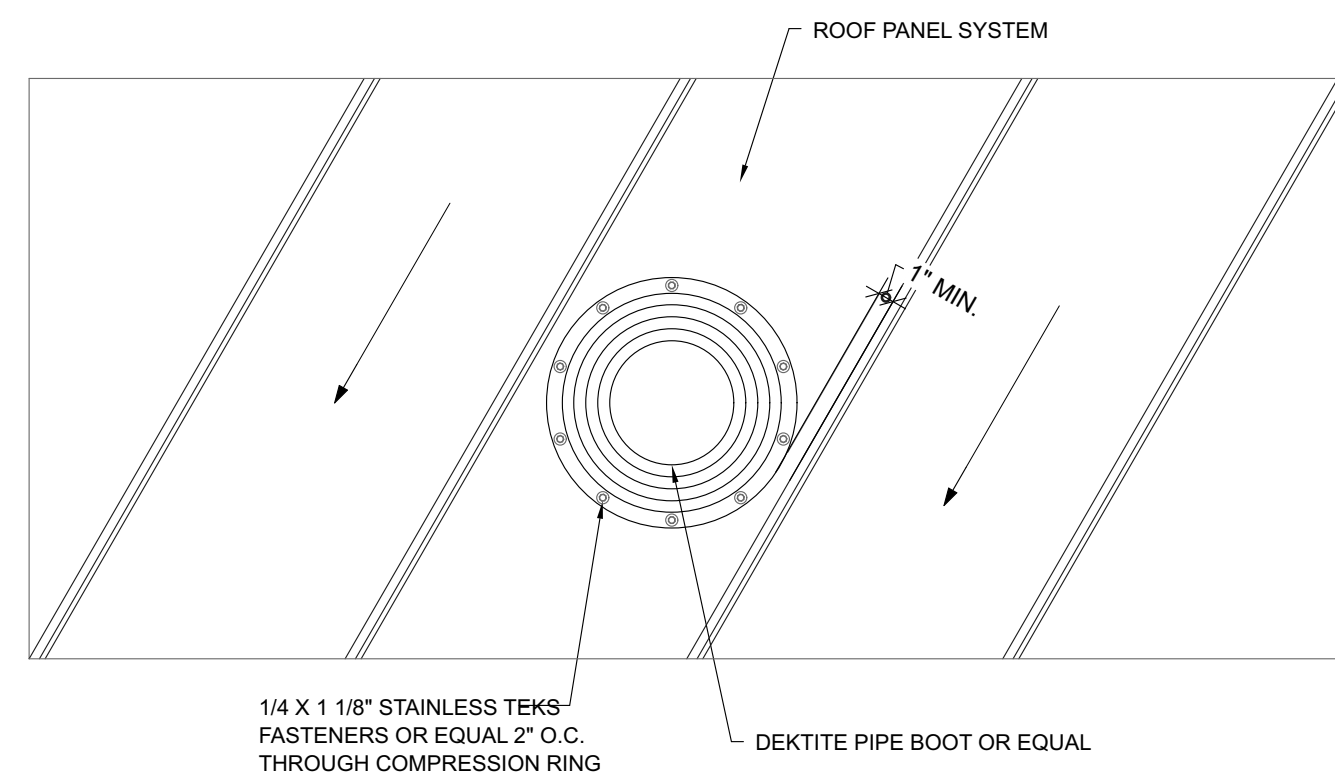
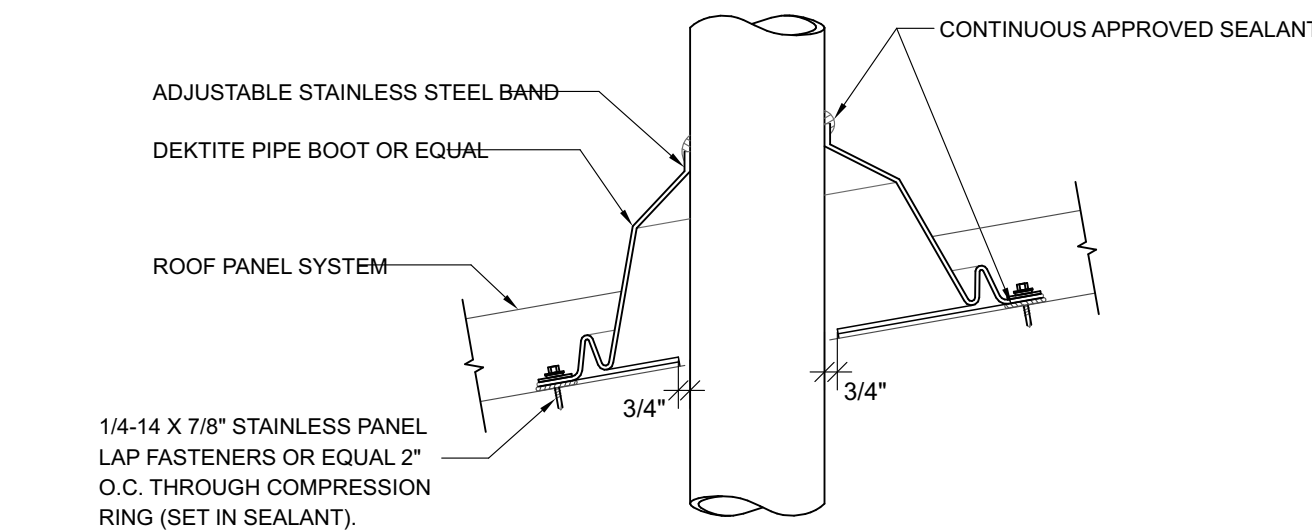


SECTION "A"

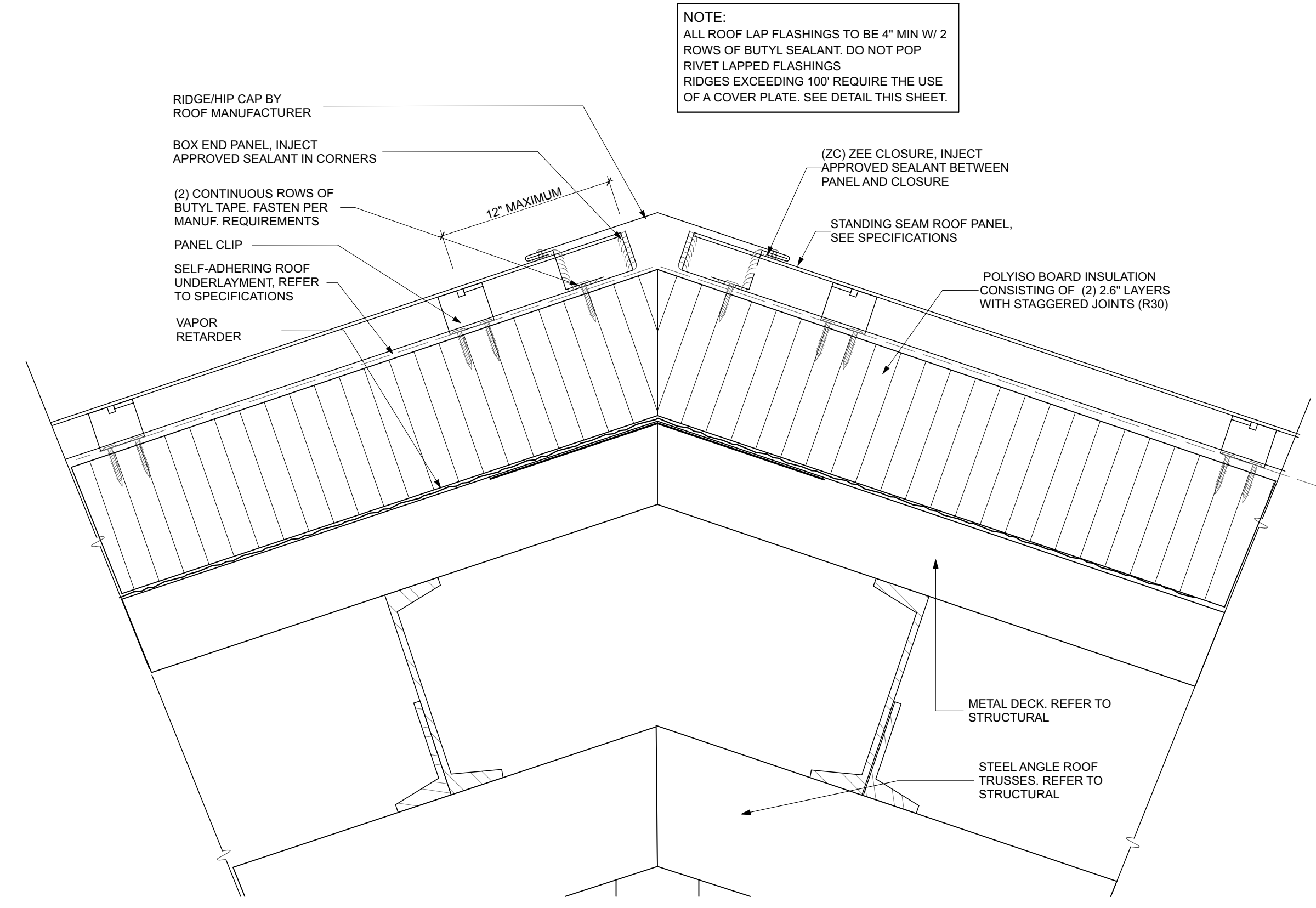


SECTION "B"

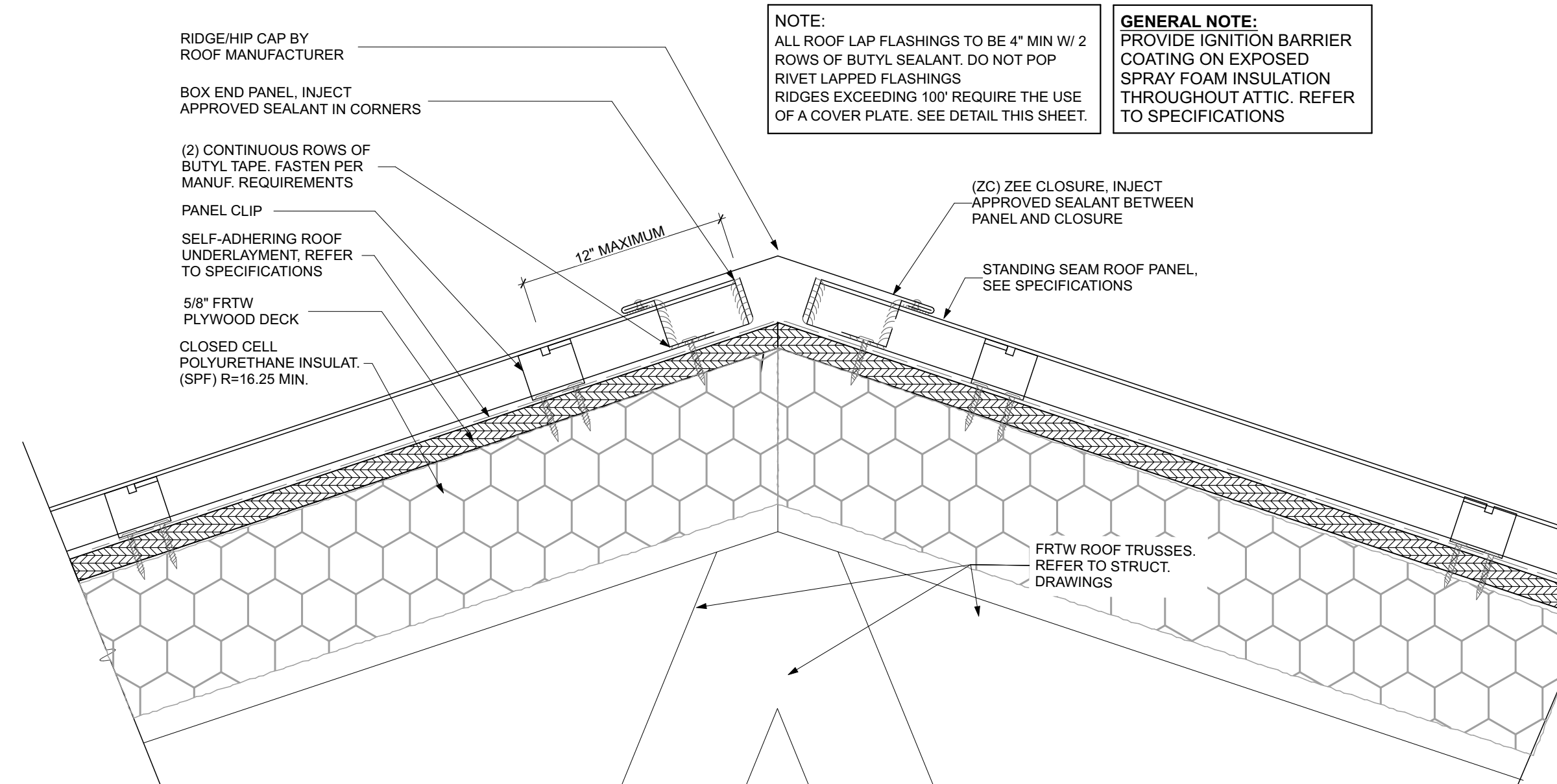
6 CURB DETAILS
SCALE: 3" = 1'-0"



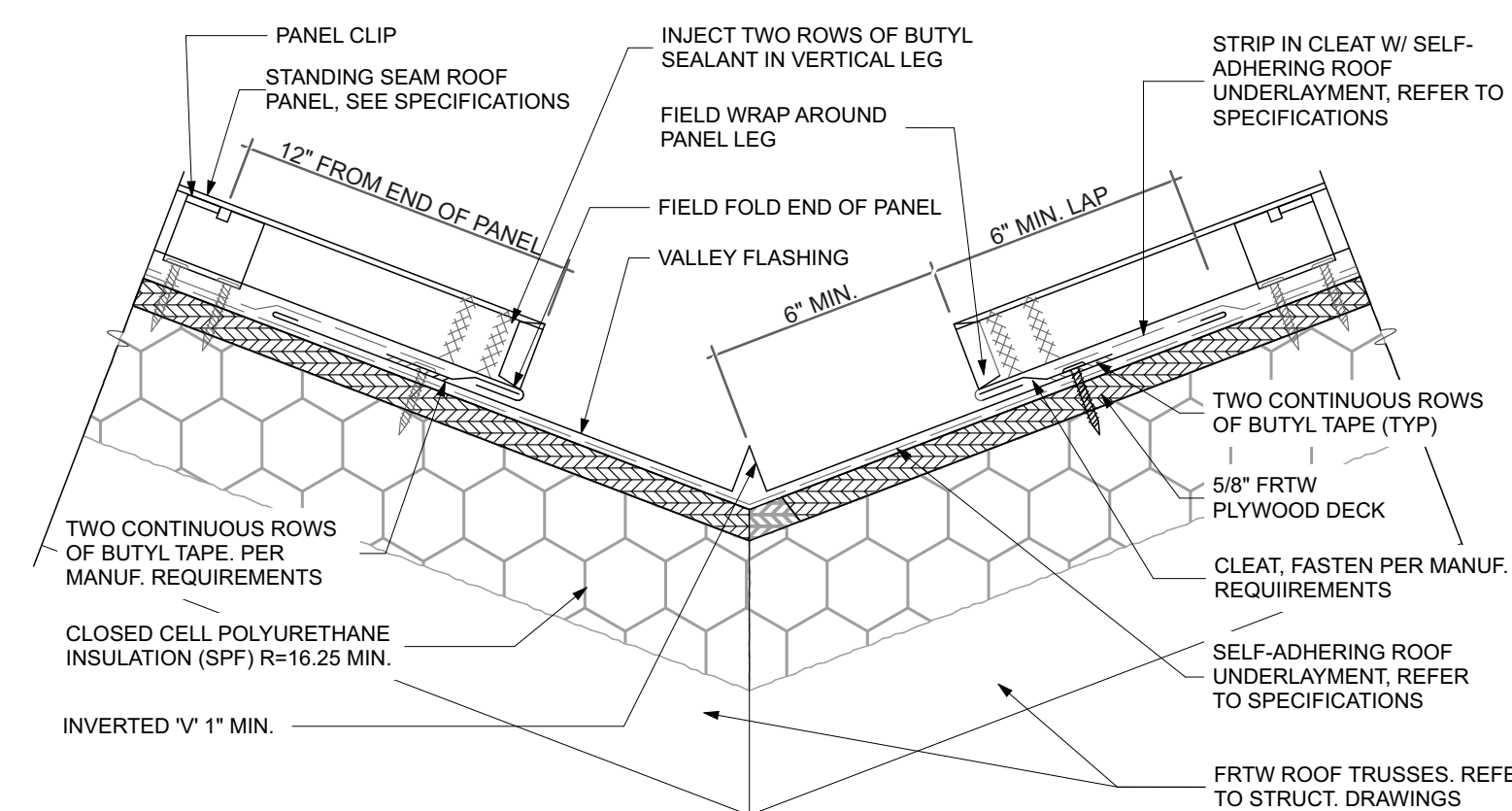
4 BOOT DETAIL
SCALE: 3" = 1'-0"



3 RIDGE DETAIL APPARATUS BAY
SCALE: 3" = 1'-0"



2 RIDGE DETAIL STATION SUPPORT
SCALE: 3" = 1'-0"



1 VALLEY DETAIL
SCALE: 3" = 1'-0"

NOTE:
ALL ROOF LAP FLASHINGS TO BE 4" MIN W/ 2 ROWS OF BUTYL SEALANT. DO NOT POP RIVET LAPPED FLASHINGS. RIDGES EXCEEDING 100' REQUIRE THE USE OF A COVER PLATE. SEE DETAIL THIS SHEET.

NOTE:
DO NOT ATTACH INTO SOLID SUBSTRATE BELOW. BOOT SHALL NOT INTERSECT STANDING SEAM VERTICAL LEG. INSTALL IN FLAT AREA OF PANEL ONLY. IF USING A SQUARE BOOT DETAIL, SET BOOT IN A DIAGONAL OR DIAMOND POSITION TO ENSURE WATER FLOW.

NOTE:
ALL ROOF LAP FLASHINGS TO BE 4" MIN W/ 2 ROWS OF BUTYL SEALANT. DO NOT POP RIVET LAPPED FLASHINGS. RIDGES EXCEEDING 100' REQUIRE THE USE OF A COVER PLATE. SEE DETAIL THIS SHEET.

GENERAL NOTE:
PROVIDE IGNITION BARRIER COATING ON EXPOSED SPRAY FOAM INSULATION THROUGHOUT ATTIC. REFER TO SPECIFICATIONS

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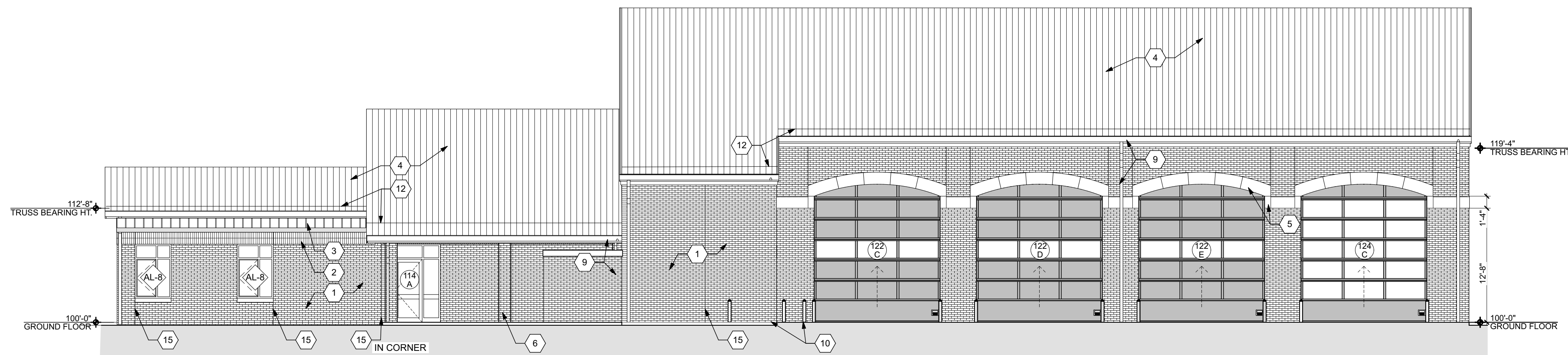
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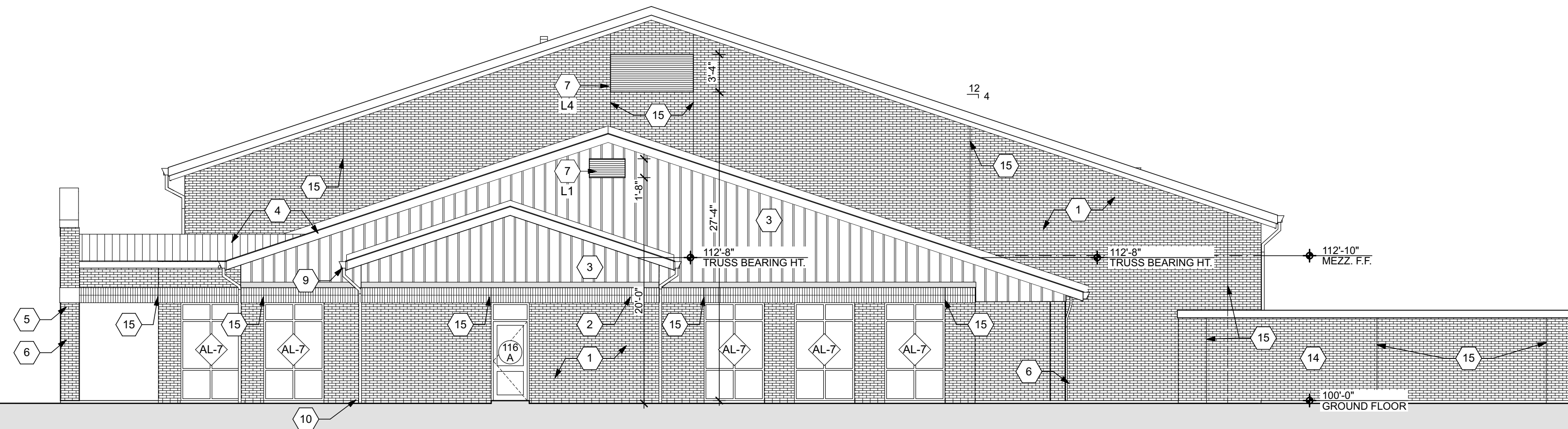
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ROOF DETAILS
A3.6

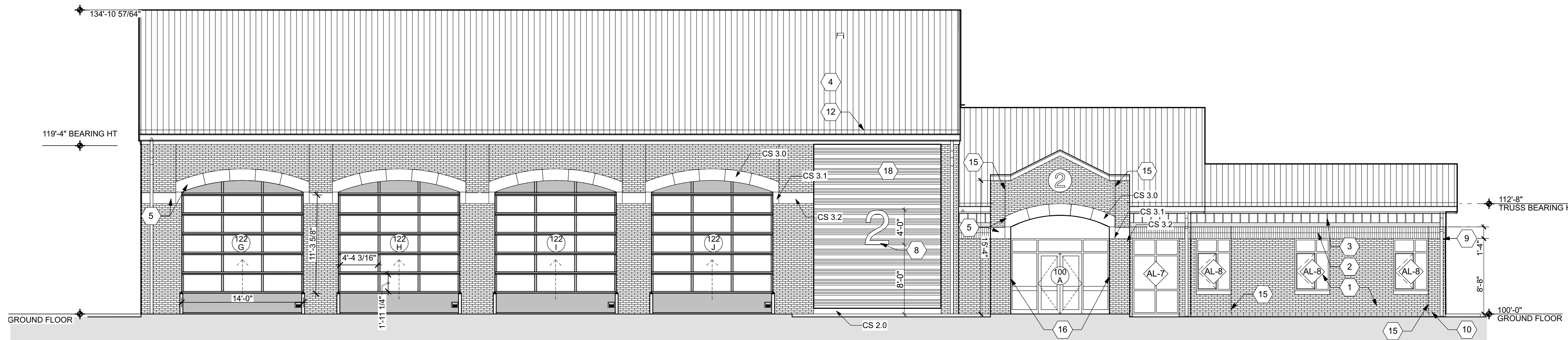
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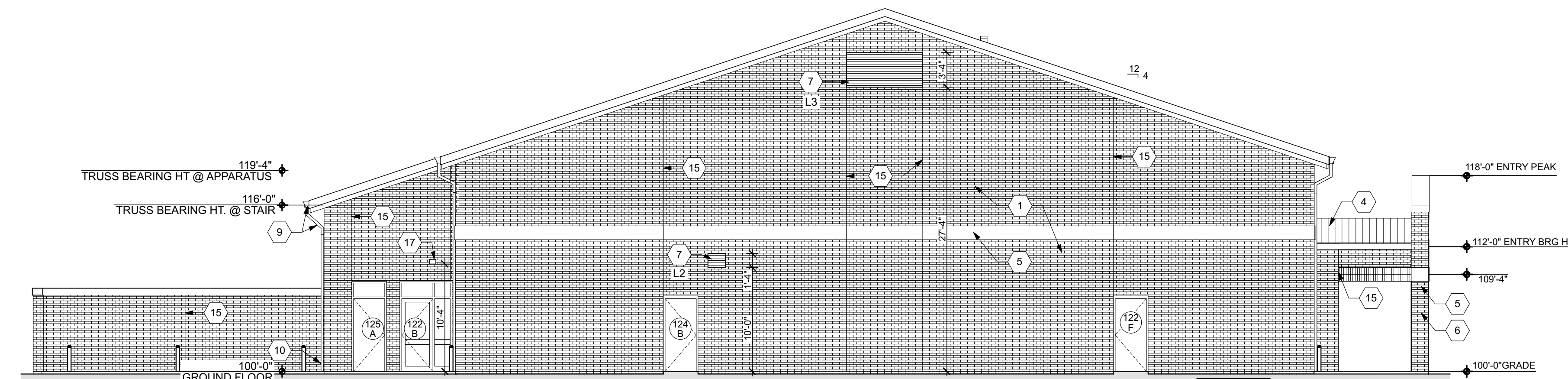
1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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



3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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

EXTERIOR ELEVATION NOTES

- ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- FACE BRICK, RUNNING BOND.
 - FACE BRICK, TWO SOLDIER COURSES.
 - REVEAL JOINT, CONCEALED-FASTENER METAL WALL PANELS.
 - STANDING SEAM METAL ROOF.
 - CAST STONE BAND.
 - MASONRY WRAPPED COLUMN.
 - LOUVER, SEE MECHANICAL DRAWINGS FOR SIZE.
 - DIMENSIONAL CHARACTERS, BACKLIGHT, REFER TO SPECIFICATIONS.
 - GUTTER / DOWNSPOUTS.
 - DOWNSPOUT BOOT (TYP), REFER TO SPECIFICATIONS.
 - CAST STONE COLUMN CAP.
 - SNOW GUARD, REFER TO SPECIFICATIONS.
 - MECHANICAL ROOF EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
 - SCREEN WALL.
 - CONTROL JOINT (TYP).
 - CORNERSTONE PLAQUE.
 - DRYER VENT, SEE MECHANICAL DRAWINGS.
 - MULTI-CORRUGATE-RIB-PROFILE, CONCEALED-FASTENER METAL WALL PANELS.

LOUVER SCHEDULE

TAG	SERVICE	BASIS OF DESIGN	WIDTH	HEIGHT
L1	INLINE FANS EXHAUST	GREENHECK ESD-635	38"	20"
L2	GEAR DRYER EXHAUST	GREENHECK ESD-635HP	18"	16"
L3	APPARATUS BAY INTAKE	GREENHECK ESD-635	88"	40"
L4	APPARATUS BAY EXHAUST	GREENHECK ESD-635	88"	40"

ELEVATION LEGEND

- # KEY NOTE, SEE ABOVE.
- AL-# ALUMINUM FRAMED OPENING, REFER TO SHEET A7.1
- # DOOR OPENING, REFER TO DOOR SCHEDULE ON SHEET A7.1
- # LOUVER, REFER TO SHEET A7.1

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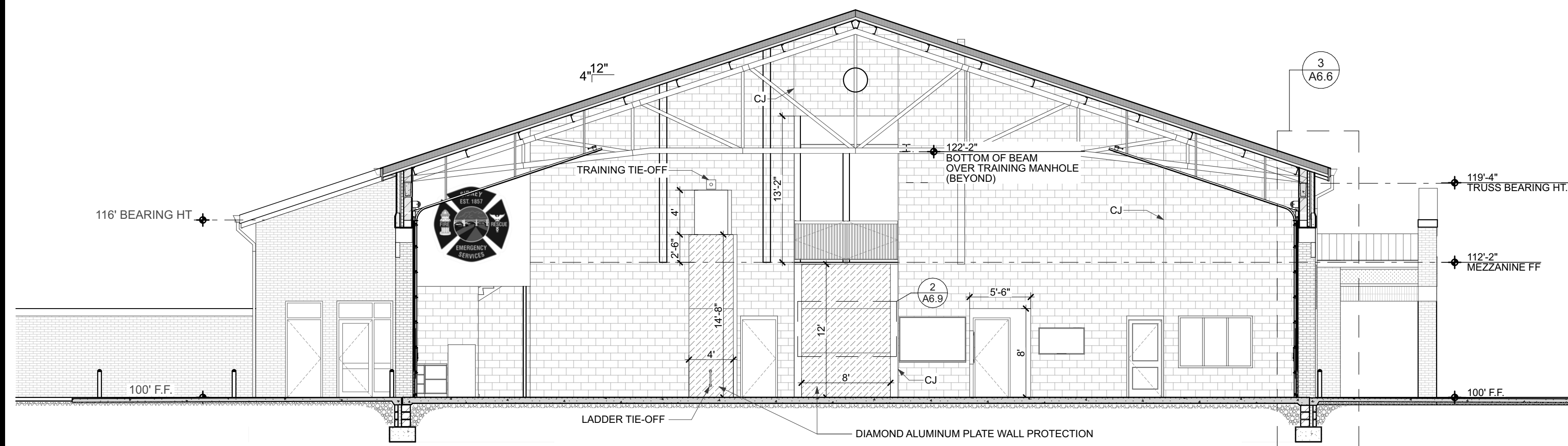
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EXTERIOR ELEVATIONS

A4.1

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A5.A5.1:BUILDING SECTIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD

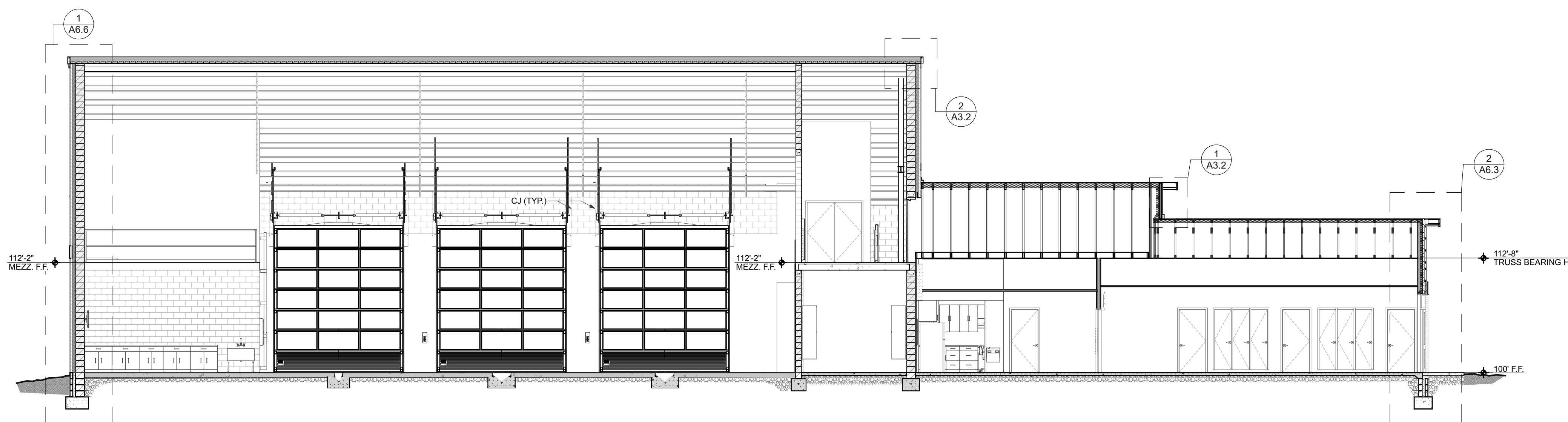


1 EAST BUILDING SECTION
SCALE: 1/8" = 1'-0"

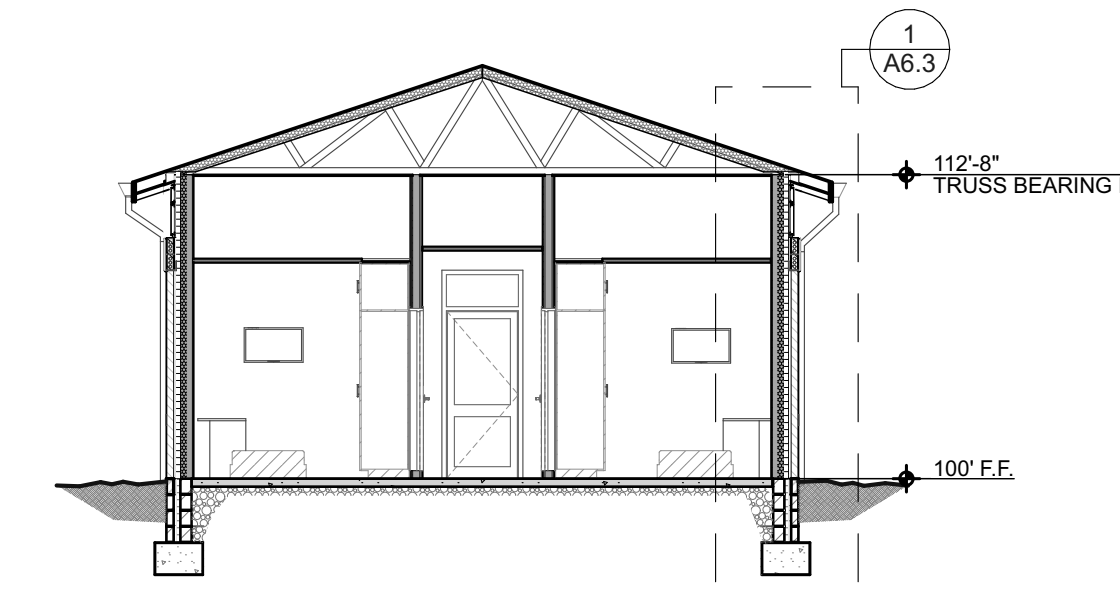


2 BUILDING SECTION
SCALE: 1/8" = 1'-0"

GENERAL NOTE:
PROVIDE IGNITION BARRIER COATING ON EXPOSED SPRAY FOAM INSULATION THROUGHOUT ATTIC. REFER TO SPECIFICATIONS



3 NORTH BUILDING SECTION
SCALE: 1/8" = 1'-0"

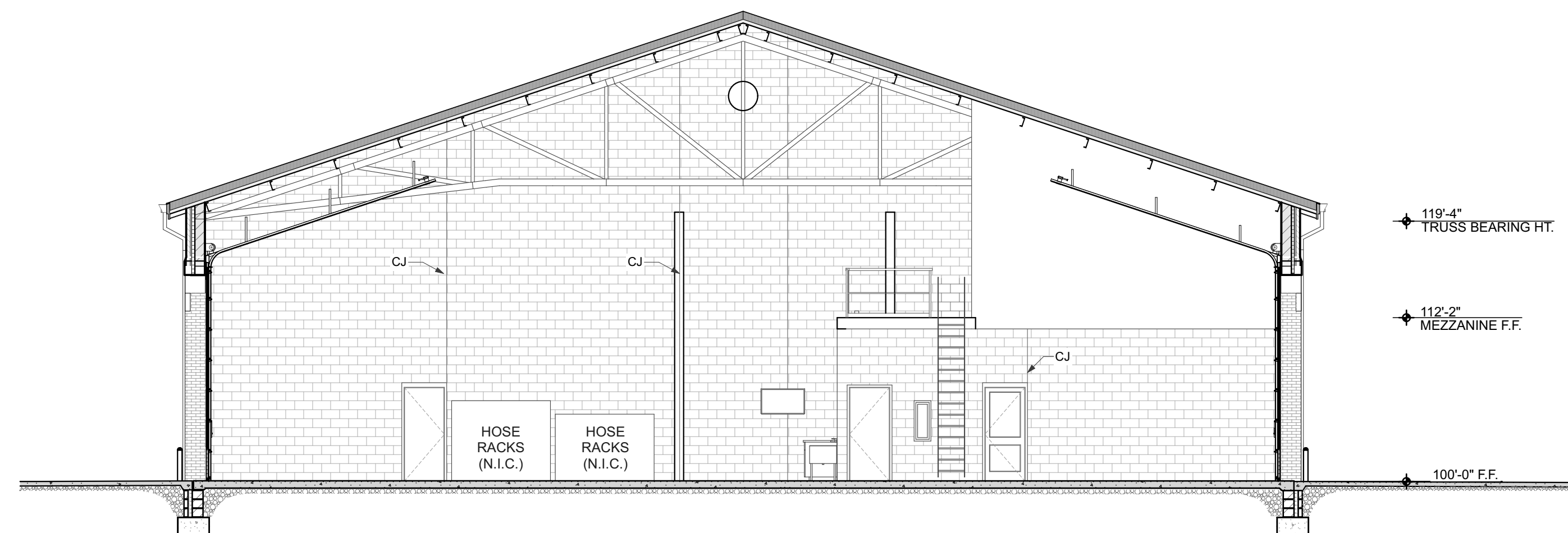


4 BUILDING SECTION
SCALE: 1/8" = 1'-0"

GENERAL NOTE:
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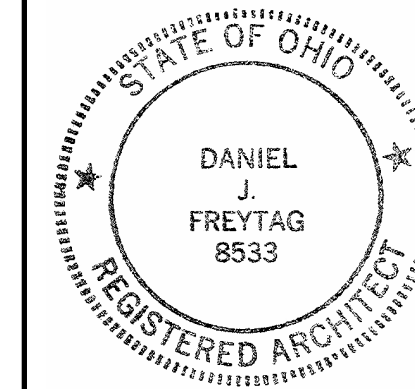
5 SOUTH BUILDING SECTION
SCALE: 1/8" = 1'-0"



6 WEST BUILDING SECTION
SCALE: 1/8" = 1'-0"

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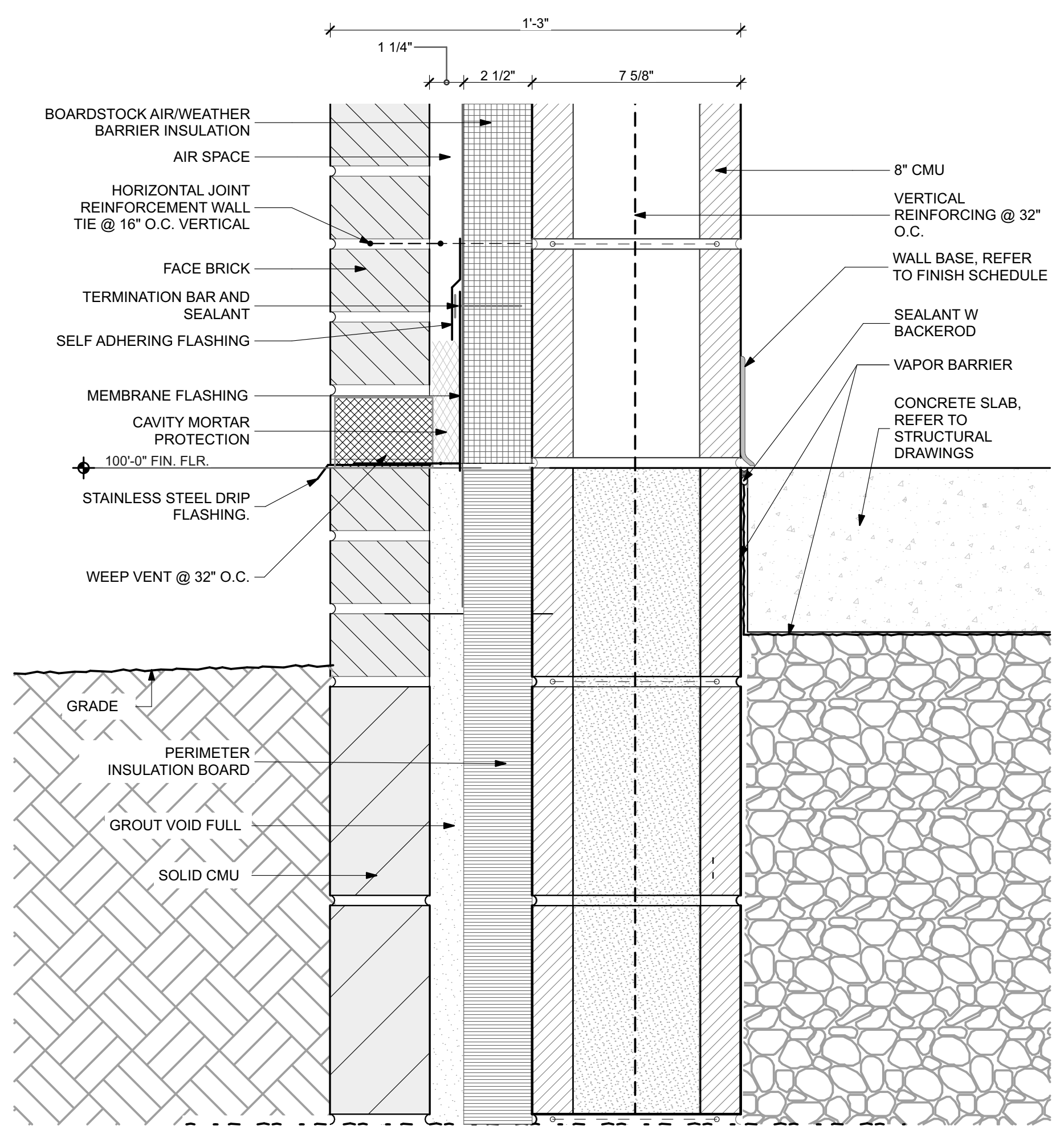
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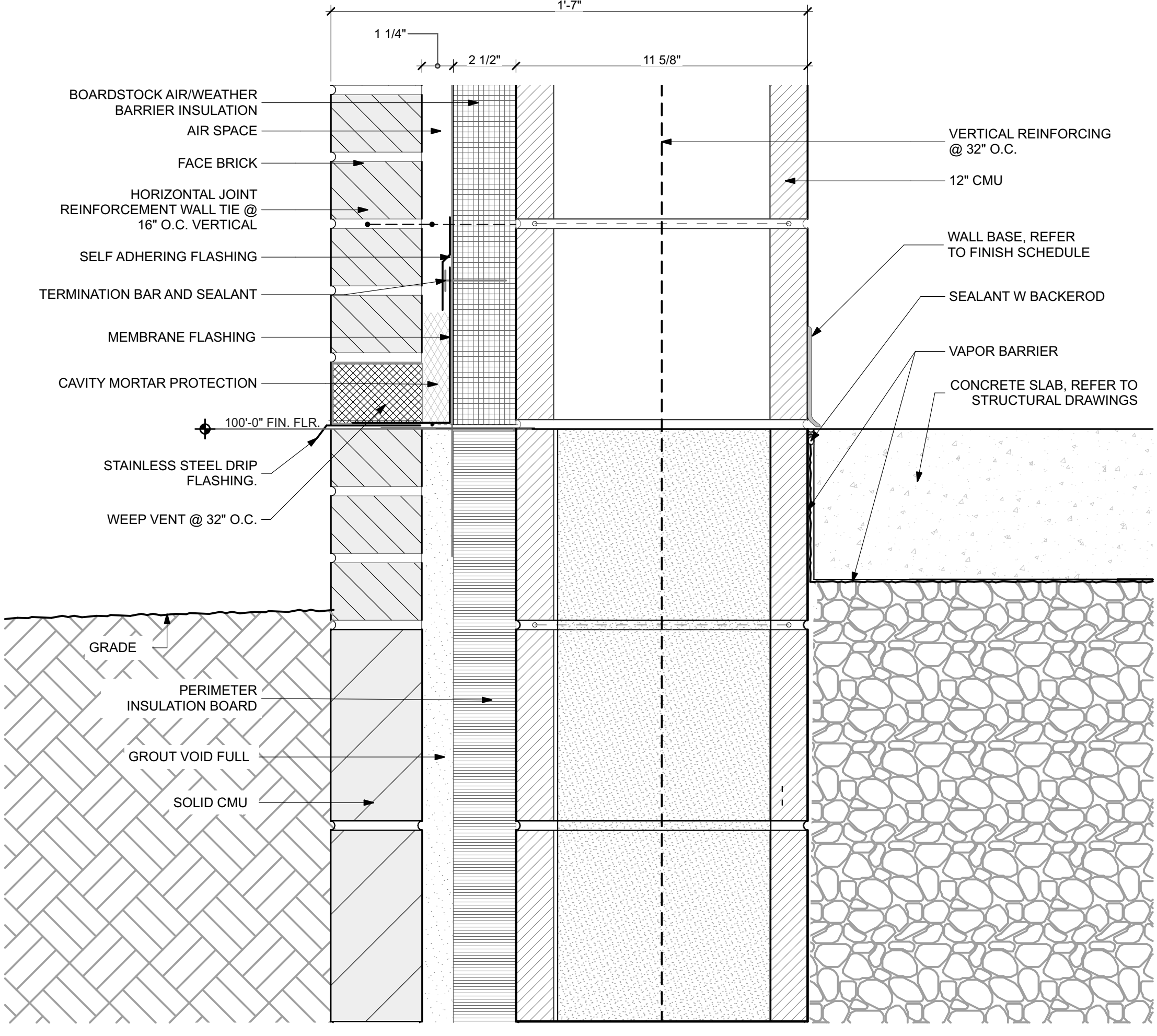
BUILDING SECTIONS

A5.1

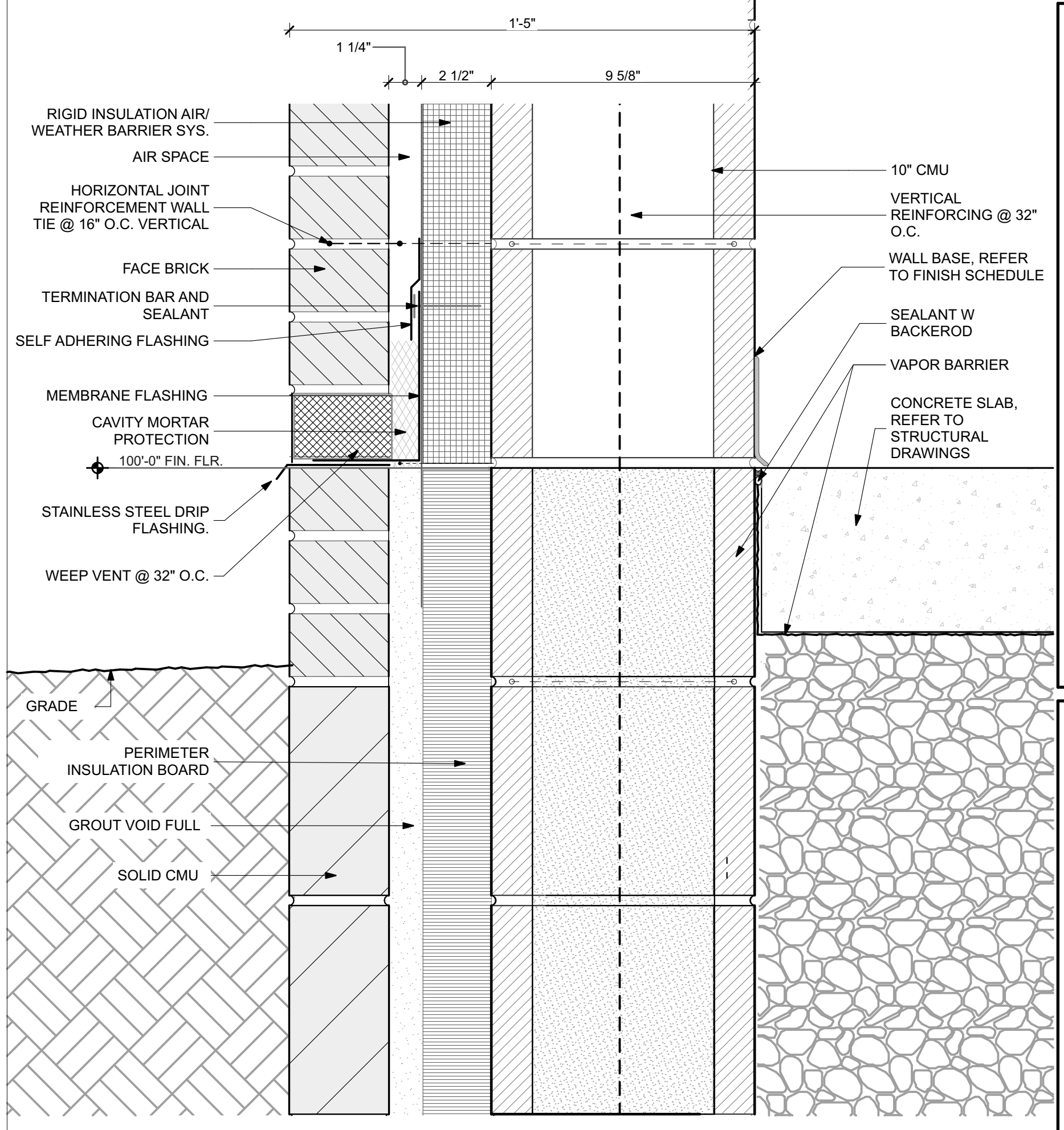
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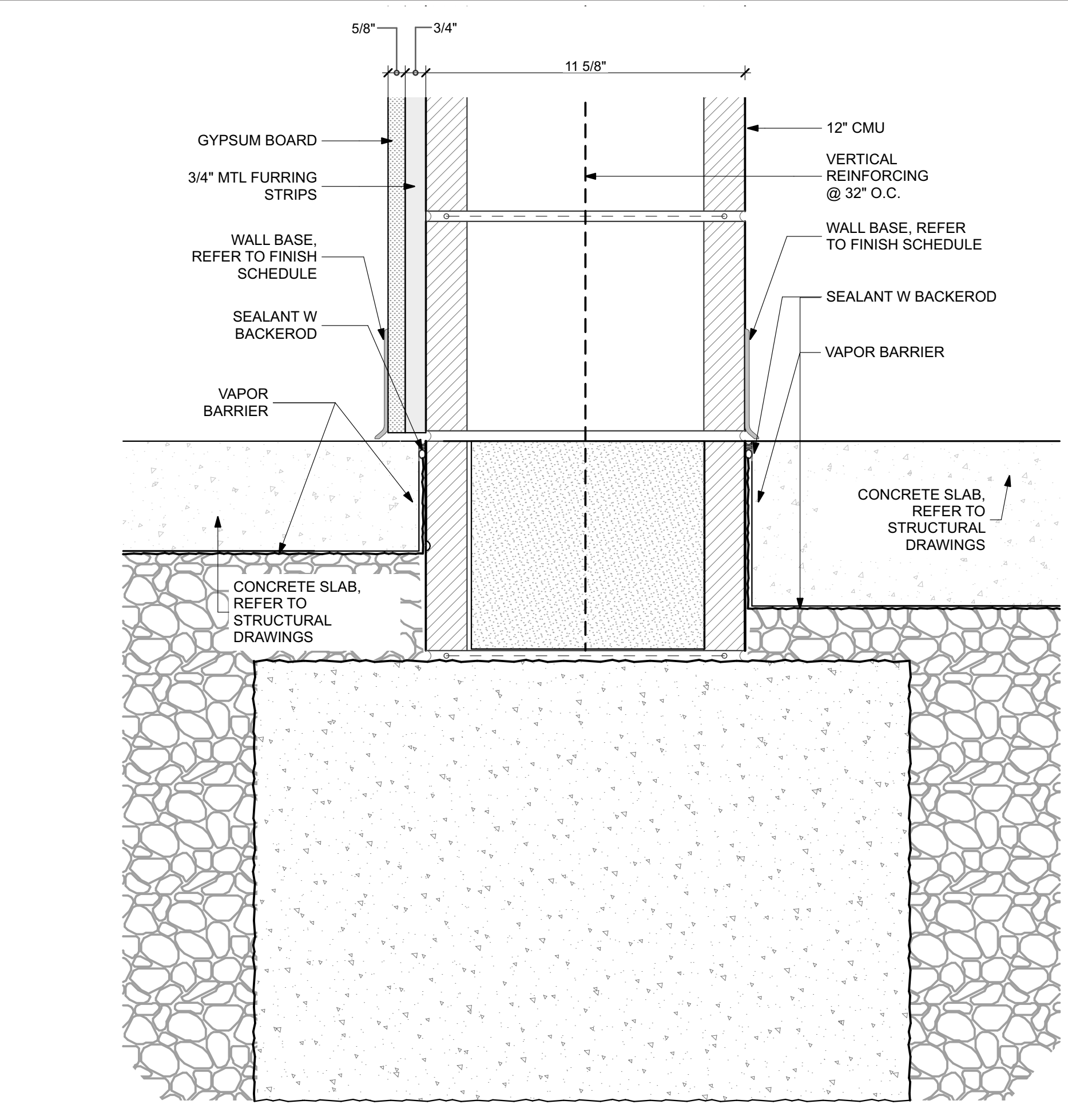
3 WALL BASE DETAIL - 8" CMU
 SCALE: 3" = 1'-0"



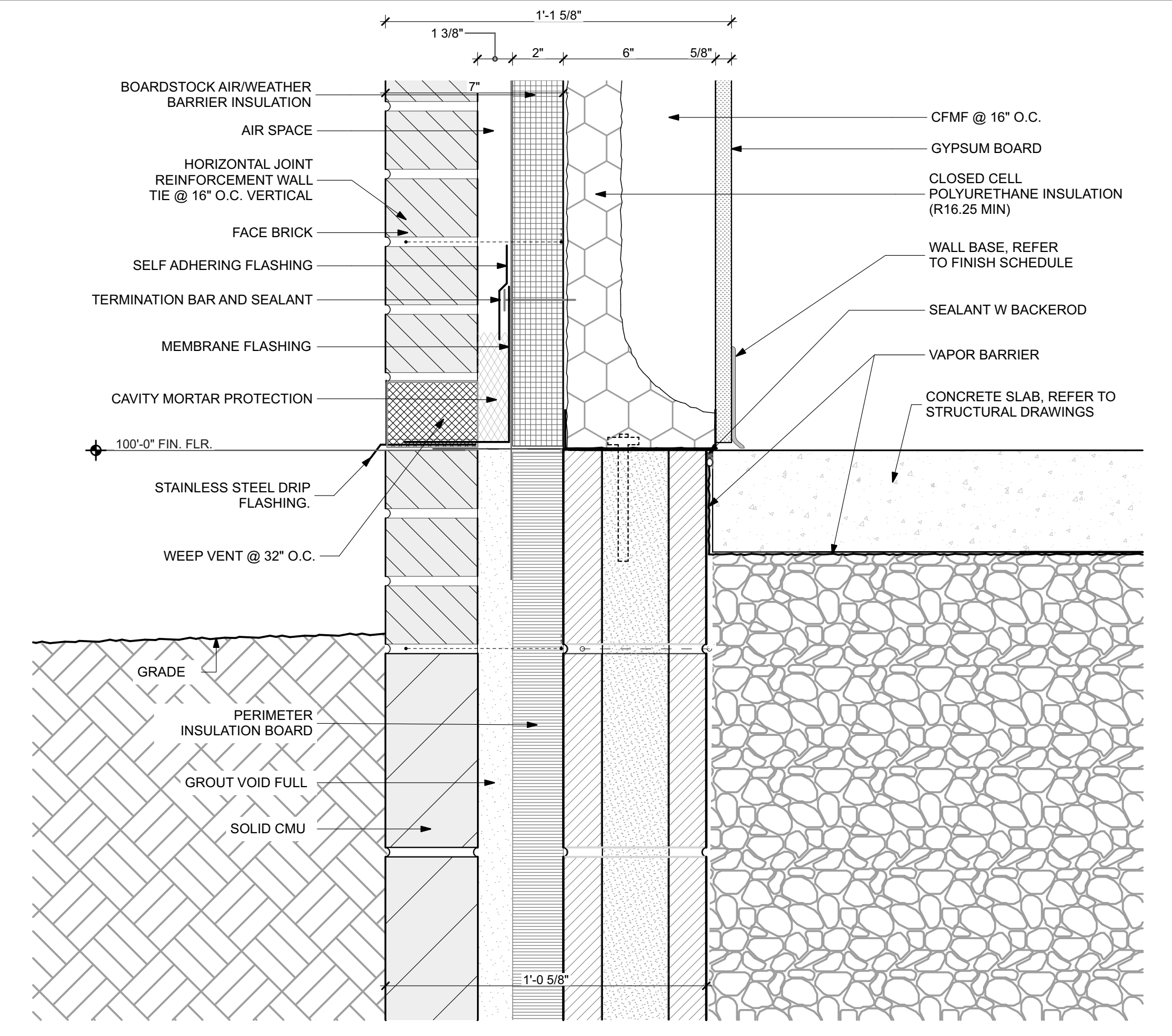
1 WALL BASE DETAIL - 12" CMU
 SCALE: 3" = 1'-0"



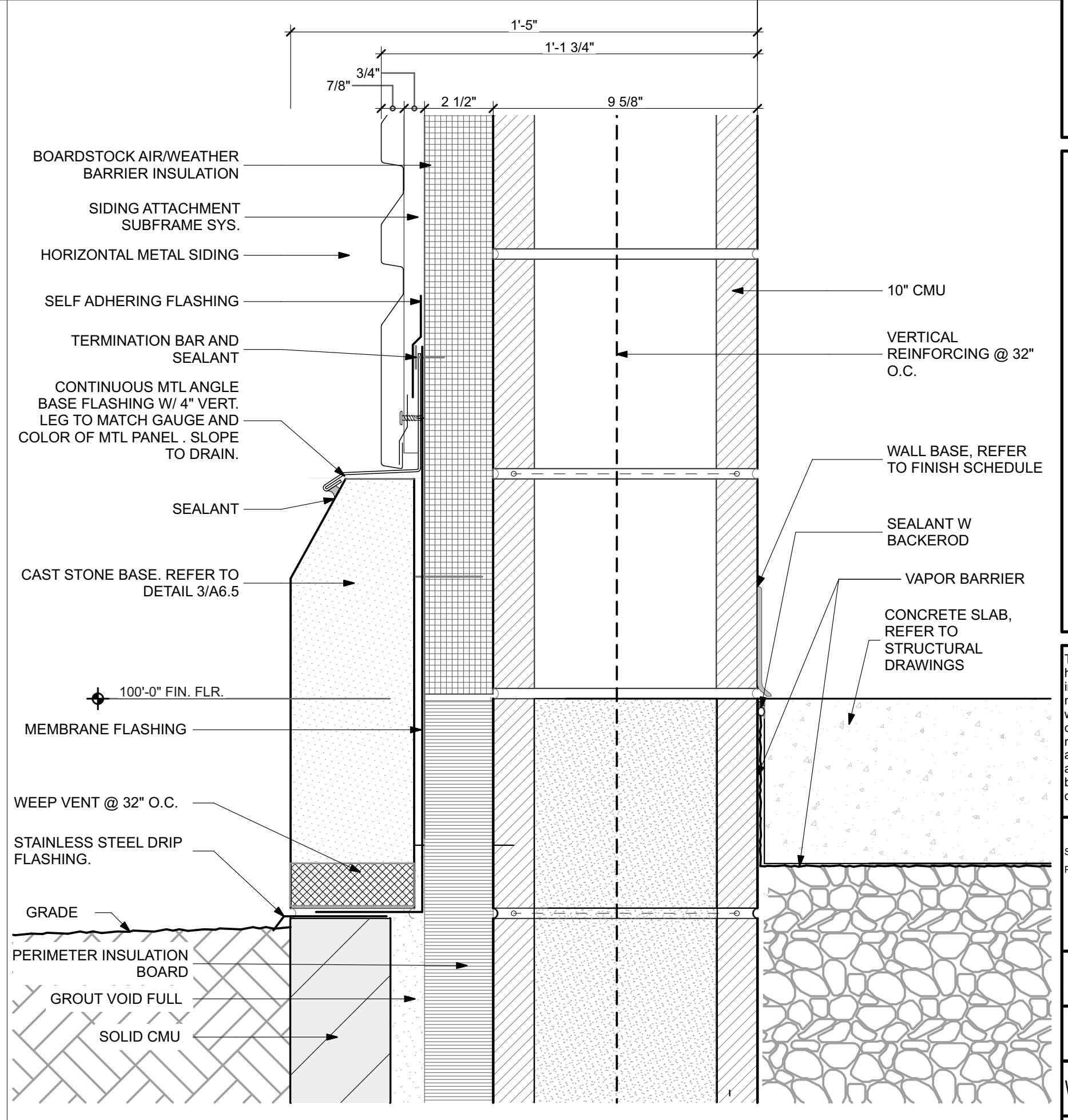
3 WALL BASE DETAIL - 10" CMU
 SCALE: 3" = 1'-0"



1 WALL BASE DETAIL - 12" CMU
 SCALE: 3" = 1'-0"



2 WALL BASE DETAIL - 6" METAL STUD
 SCALE: 3" = 1'-0"



4 WALL BASE DETAIL - 10" CMU W/ ACM PANEL
 SCALE: 3" = 1'-0"

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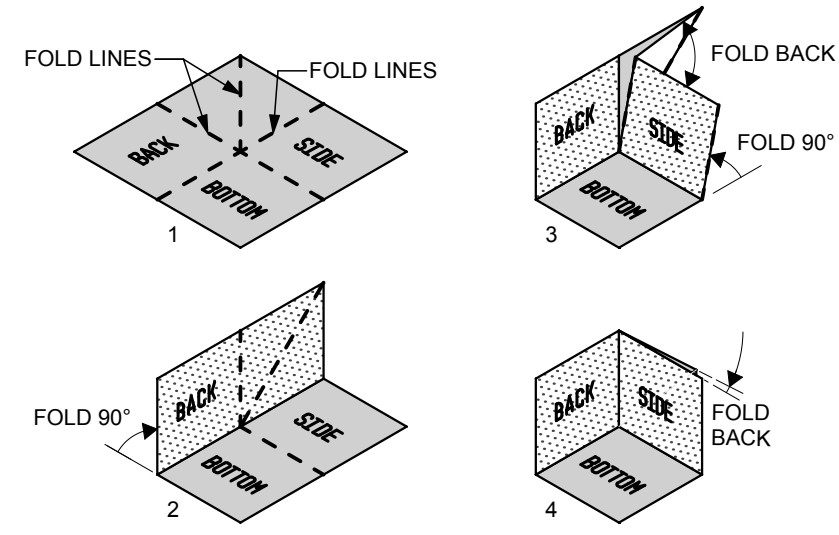
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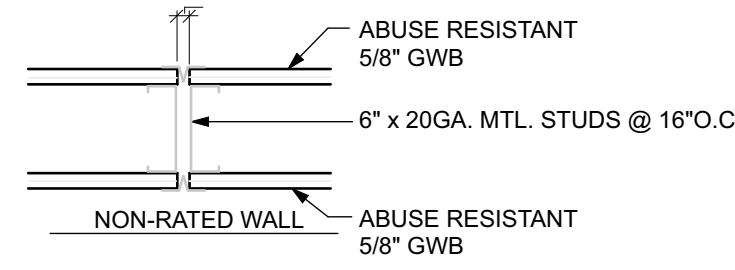
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WALL CONSTRUCTION DETAILS

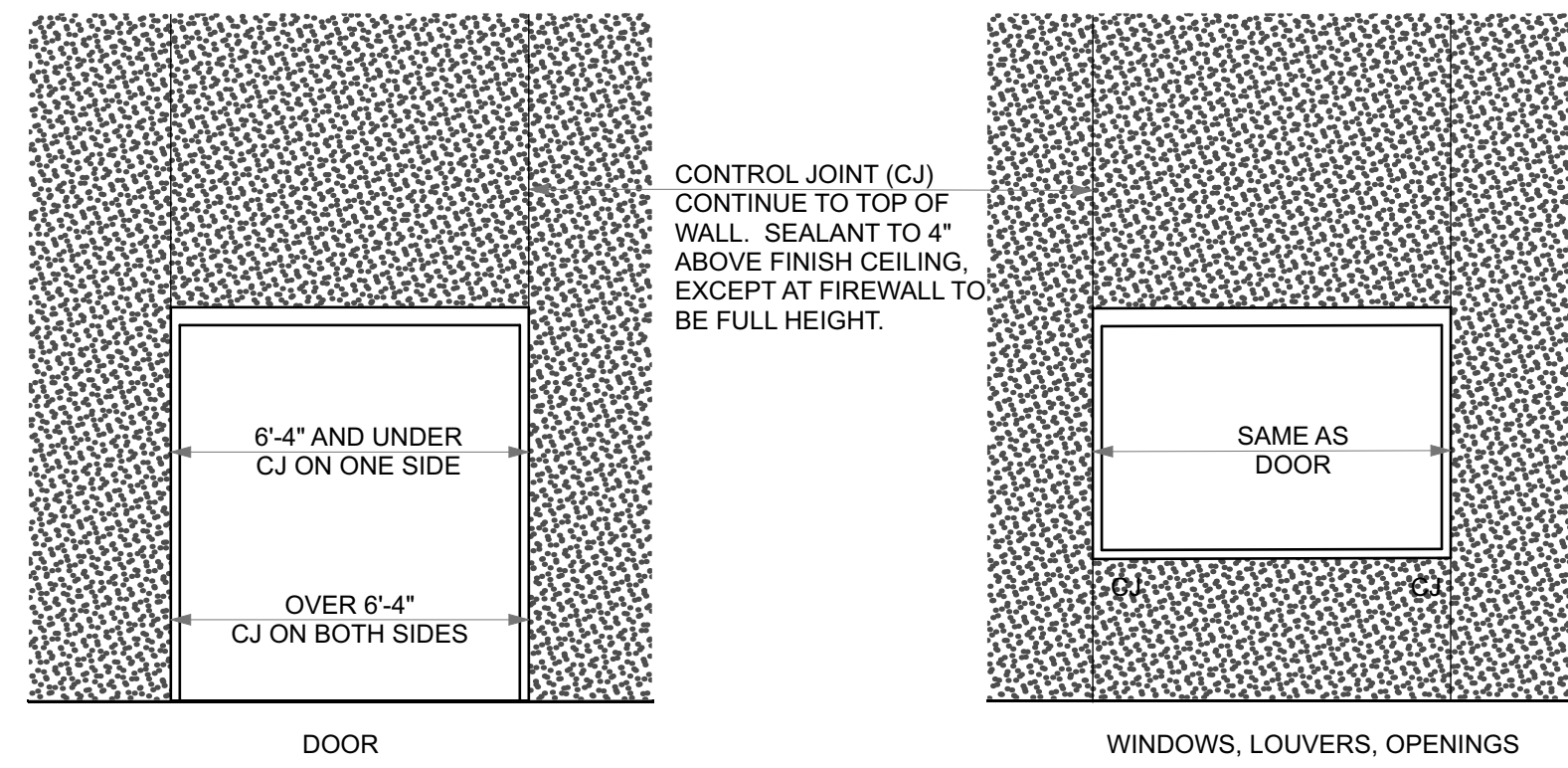
A6.1



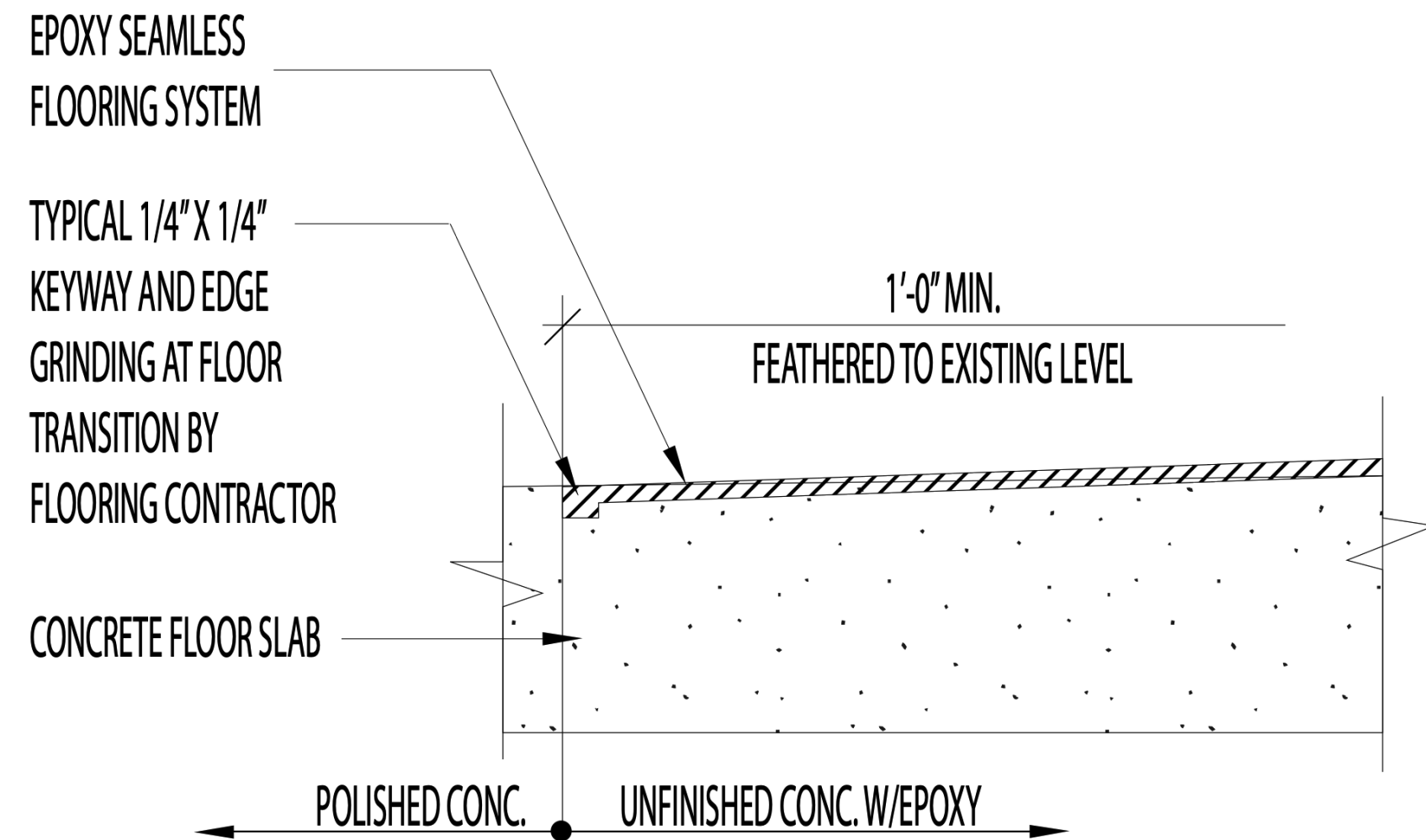
1 FOLD FLASHING DETAIL
A6.2 SCALE: 1" = 1'-0"



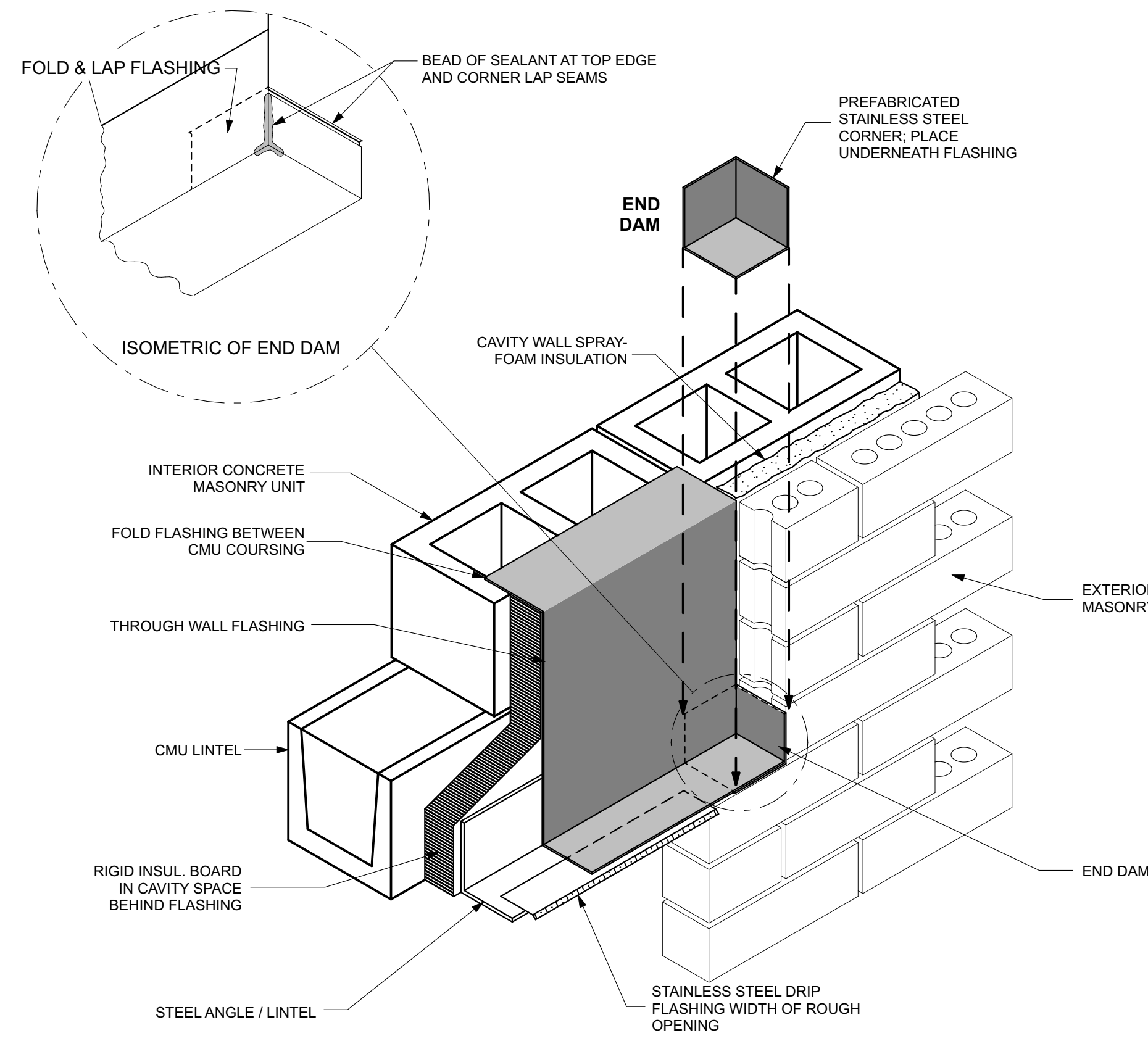
2 STUD WALL CONTROL JOINT
A6.2 NOT TO SCALE



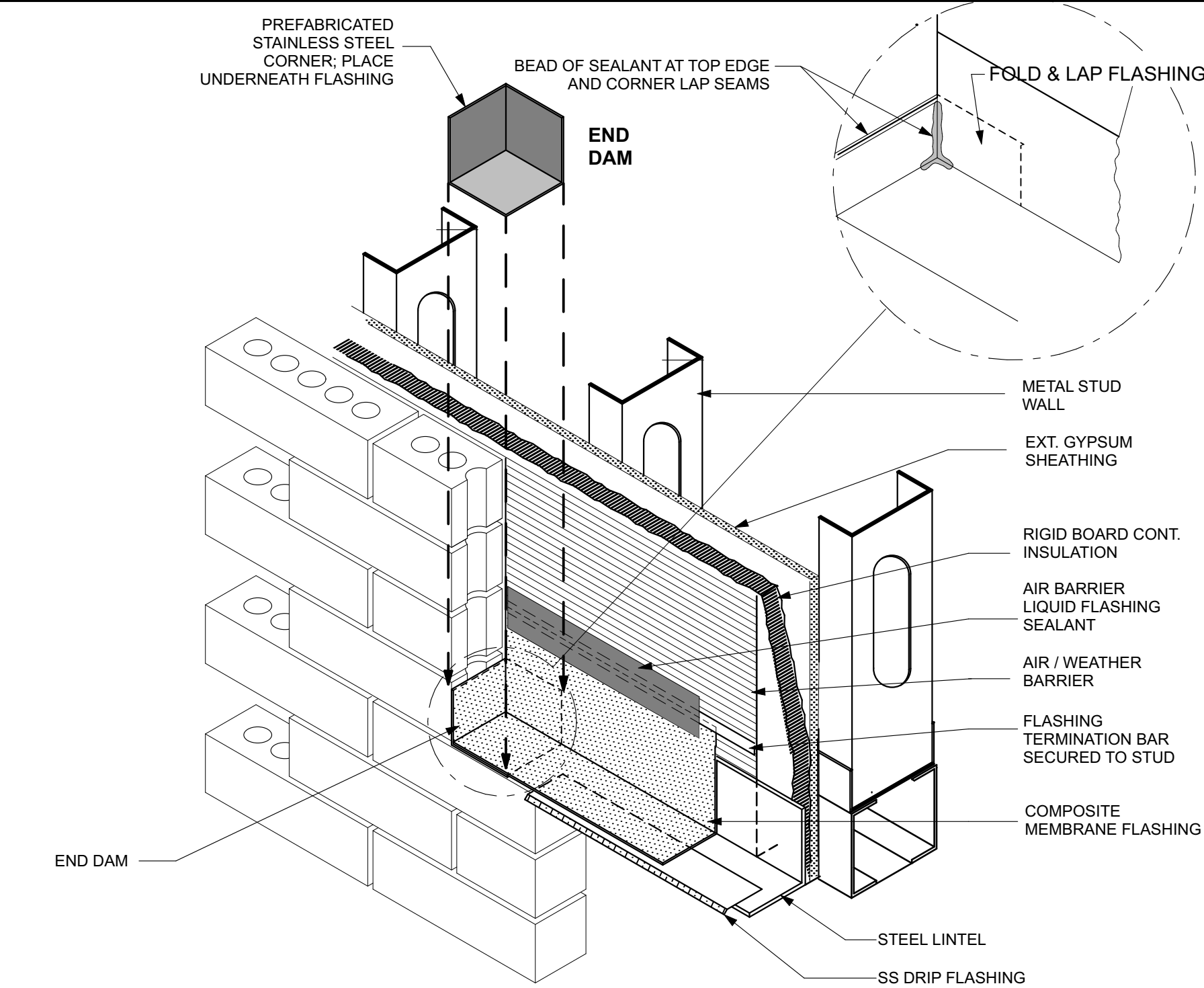
3 CONTROL JOINT DETAIL
A6.2 NOT TO SCALE



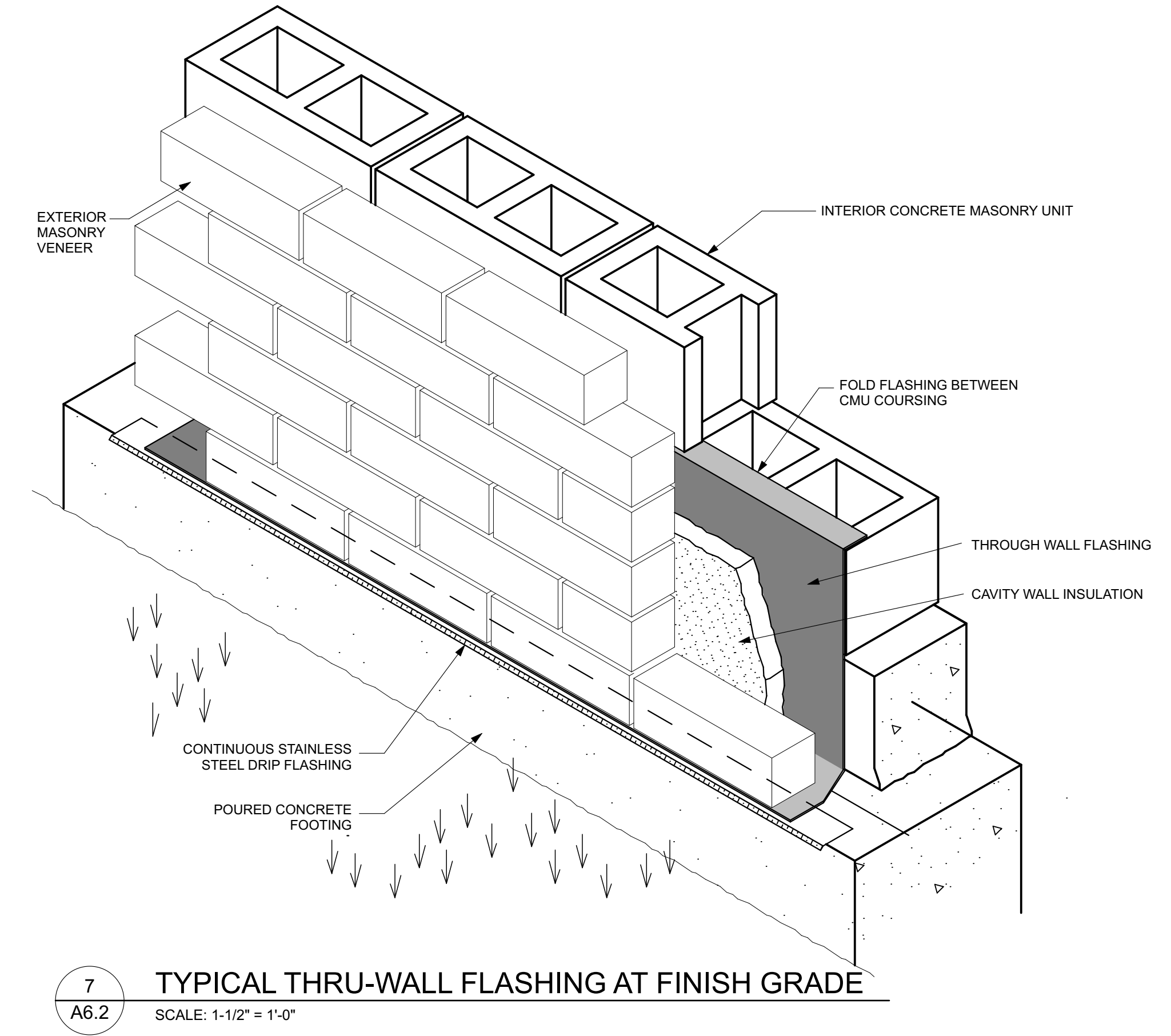
4 RESINOUS FLOORING TRANSITION DETAIL
A6.2 SCALE: 1:1.509



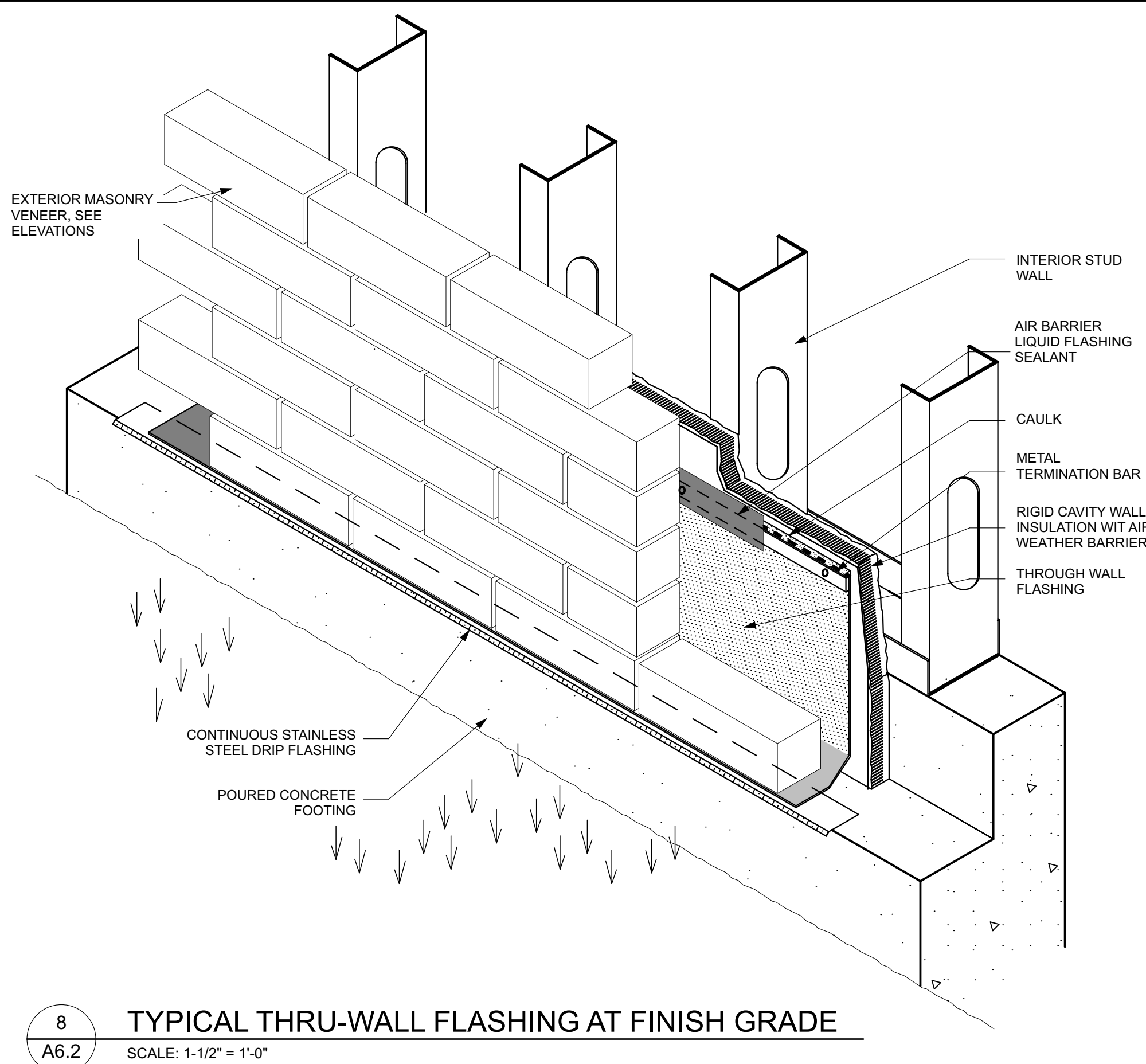
5 TYP. THRU-WALL FLASHING AT EXTERIOR OPENINGS MASONRY LINTEL W/ SPRAY-FOAM CAVITY INSUL.
A6.2



6 TYP. THRU-WALL FLASHING AT EXTERIOR OPENINGS MASONRY LINTEL W/ SPRAY-FOAM CAVITY INSUL.
A6.2



7 TYPICAL THRU-WALL FLASHING AT FINISH GRADE
A6.2 SCALE: 1-1/2" = 1'-0"



8 TYPICAL THRU-WALL FLASHING AT FINISH GRADE
A6.2 SCALE: 1-1/2" = 1'-0"

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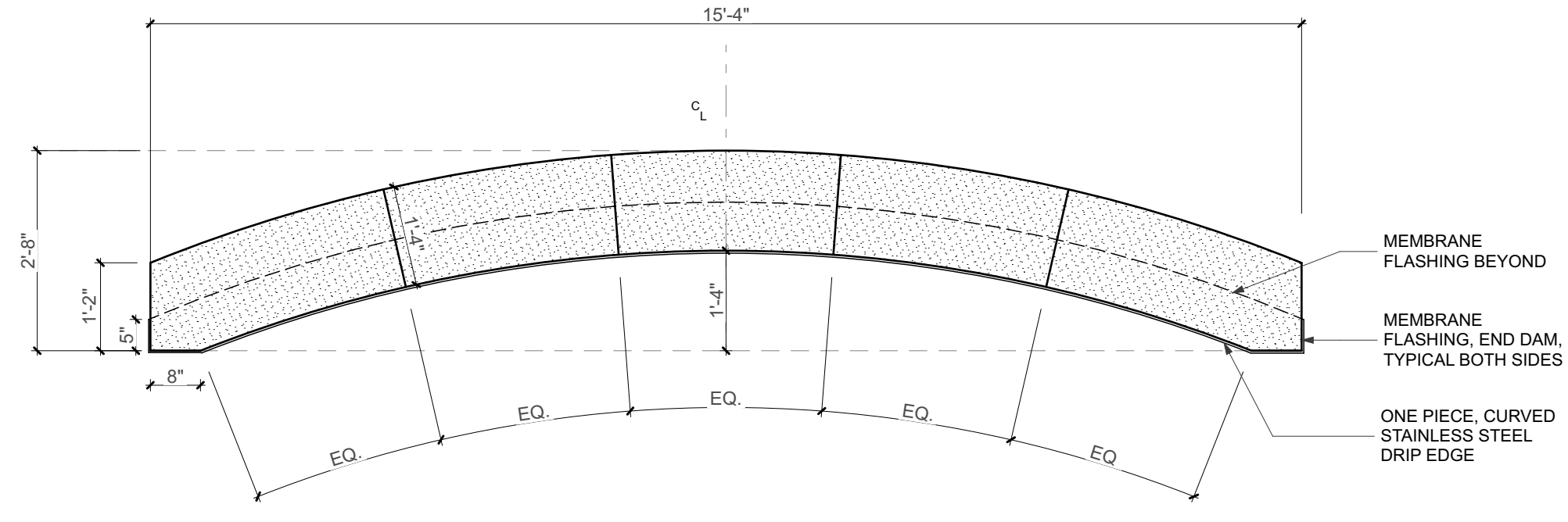
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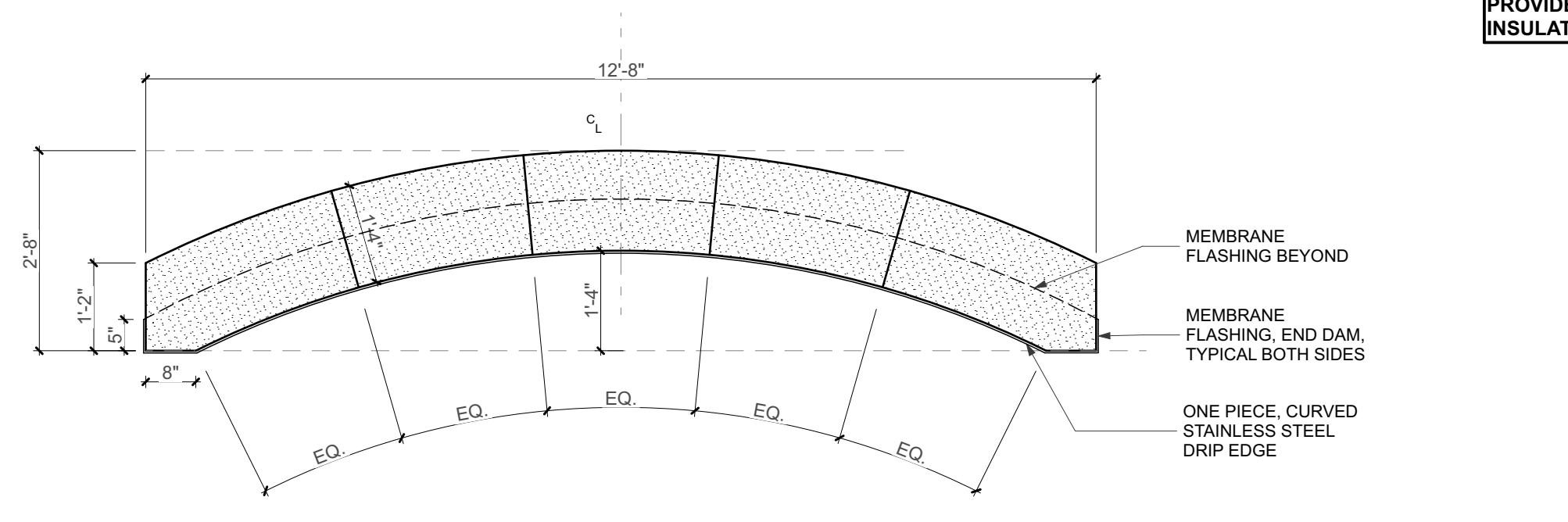
CONSTRUCTION DETAILS
A6.2

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A6-A6.2-WALL SECTIONS AND DETAILS - CONSTRUCTION DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service\231103 Fire Station CD

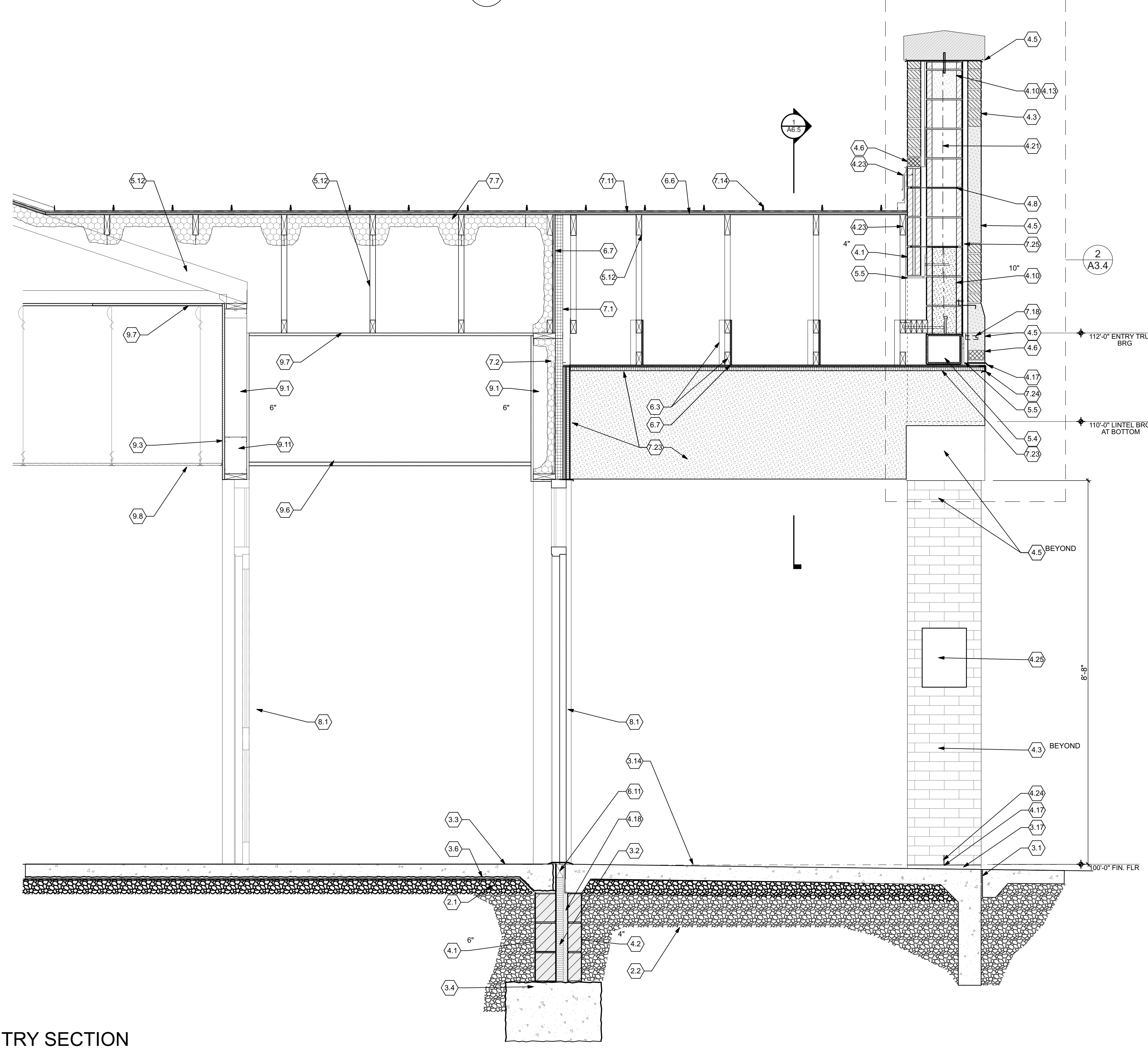
PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A6-A6.4-WALL SECTIONS AND DETAILS - ENTRY WALL SECTIONS AND DETAILS - ENTRY WALL SECTIONS AND DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud; freytaginc - BIMcloud Software as a Service; 231103 Fire Station CD



2
A6.4 **CAST STONE ARCH @ OHD DOORS**
SCALE: 1/2" = 1'-0"



3
A6.4 **CAST STONE ARCH @ ENTRY**
SCALE: 1/2" = 1'-0"



1
A6.4 **ENTRY SECTION**
SCALE: 3/4" = 1'-0"

GENERAL NOTE:
PROVIDE IGNITION BARRIER COATING ON EXPOSED SPRAY FOAM INSULATION THROUGHOUT ATTIC. REFER TO SPECIFICATIONS

SECTION NOTES
SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

- 1.1 AIR SPACE
- 1.2 GRADE. REFER TO SITE PLAN
- 2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
- 2.2 COMPACTED GRAVEL BACKFILL
- 3.1 1/4" EXPANSION FILLER.
- 3.2 2" x 24" CONTINUOUS RIGID PERIMETER INSULATION BOARD.
- 3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
- 3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
- 3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
- 3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
- 3.7 4" CONCRETE SLAB AND METAL DECK. REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
- 3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING. REFER TO STRUCTURAL DRAWINGS.
- 3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
- 3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
- 3.11 REINFORCED CONCRETE SLAB. REFER TO SITE PLAN FOR DETAIL.
- 3.12 EXTERIOR CONCRETE STOOFF. REFER TO SITE DRAWINGS
- 3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
- 3.14 TURN-DOWN SLAB. REFER TO STRUCTURAL DRAWINGS.
- 3.15 CONCRETE FROST STOOFF. REFER TO STRUCTURAL DRAWINGS.
- 3.16 EXTERIOR CONCRETE SLAB. REFER TO SITE DRAWINGS.
- 3.17 CMU FOUNDATION. REFER TO STRUCTURAL
- 4.1 CONCRETE MASONRY UNIT (CMU)
- 4.2 SOLID CONCRETE MASONRY UNIT (CMU).
- 4.3 FACE BRICK.
- 4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE
- 4.5 CAST STONE. REFER TO DETAIL 3/A6.5.
- 4.6 WEEP VENT @ 32" O.C.
- 4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
- 4.7.1 CONT. 16" DP BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
- 4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX)
- 4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
- 4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
- 4.11 CONCRETE BRICK
- 4.12 CAVITY MORTAR PROTECTION
- 4.13 CUT CMU BLOCK AS REQUIRED.
- 4.14 METAL THRU WALL FLASHING.
- 4.15 HORIZONTAL JOINT REINFORCEMENT
- 4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16" O.C. REFER TO STRUCTURAL FOR REINFORCING
- 4.17 STAINLESS STEEL DRIP EDGE
- 4.18 GROUT VOID FULL
- 4.19 AIRSPACE
- 4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
- 4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
- 4.22 MEMBRANE THRU WALL FLASHING
- 4.23 FLASHING/ COUNTER FLASHING
- 4.24 WEEP VENT, ONE PER SIDE OF COLUMN
- 4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
- 4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5
- 5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
- 5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
- 5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
- 5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
- 5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
- 5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
- 5.7 METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
- 5.8 STEEL ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
- 5.9 METAL PAN STAIR/LANDING. REFER TO STAIR DETAILS.
- 5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
- 5.10 METAL GUARD RAIL. REFER TO DETAIL 5/A6.7.
- 5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
- 5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
- 5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
- 5.15 METAL PAN STAIR / LANDING. REFER TO STAIR DETAILS.
- 6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
- 6.2 FRTW 2X10 FASCIA.
- 6.3 FRTW 2X BLOCKING
- 6.4 FRTW PLATE. REFER TO STRUCTURAL
- 6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
- 6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
- 6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL.
- 6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
- 6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
- 6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
- 6.11 FT WOOD NAILER
- 6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
- 6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
- 6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS
- 7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 2" @ CFM WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
- 7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
- 7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
- 7.4 EXPANSION JOINT
- 7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
- 7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
- 7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
- 7.8 SEALANT W/ BACKER ROD
- 7.9 SEALANT. REFER TO PROJECT MANUAL.
- 7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
- 7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
- 7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
- 7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
- 7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
- 7.15 CONTINUOUS METAL SIDING BASE FLASHING.
- 7.16 STEP FLASHING. SEE DETAILS
- 7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
- 7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
- 7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
- 7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
- 7.21 METAL DRIP EDGE
- 7.22 SPRAY APPLIED CELLULOSIC INSULATION
- 7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
- 7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
- 7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
- 8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
- 8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
- 8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
- 8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
- 8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
- 8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL
- 8.7 ACCESS DOOR. BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"x36" ACCESS DOOR.
- 9.1 CFMF @ 16" O.C.
- 9.2 CFMF BRACING @ 48" O.C.
- 9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
- 9.4 CONTINUOUS 3 5/8" CFMF
- 9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
- 9.6 5/8" GYPSUM BOARD
- 9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
- 9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
- 9.9 METAL "J" MOLD
- 9.10 WALL BASE. SEE FINISH SCHEDULE.
- 9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
- 9.12 SUSPENDED GYPSUM CEILING
- 10.1 LOUVER
- 10.2 GRILLE. REFER TO MECHANICAL DRAWINGS.
- 12.1 CASEWORK. REFER TO EQUIPMENT DRAWINGS
- 12.2 WINDOW SHADES. REFER TO PROJECT MANUAL.
- 23.1 HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS
- 23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
- 26.1 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

STATE OF OHIO
REGISTERED ARCHITECT

DANIEL J. FREYTAG
8533

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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REVISIONS	
NO.	DESCRIPTION
1	STORM SHELTER REVIEW PLAN APPROVAL / BIDDING

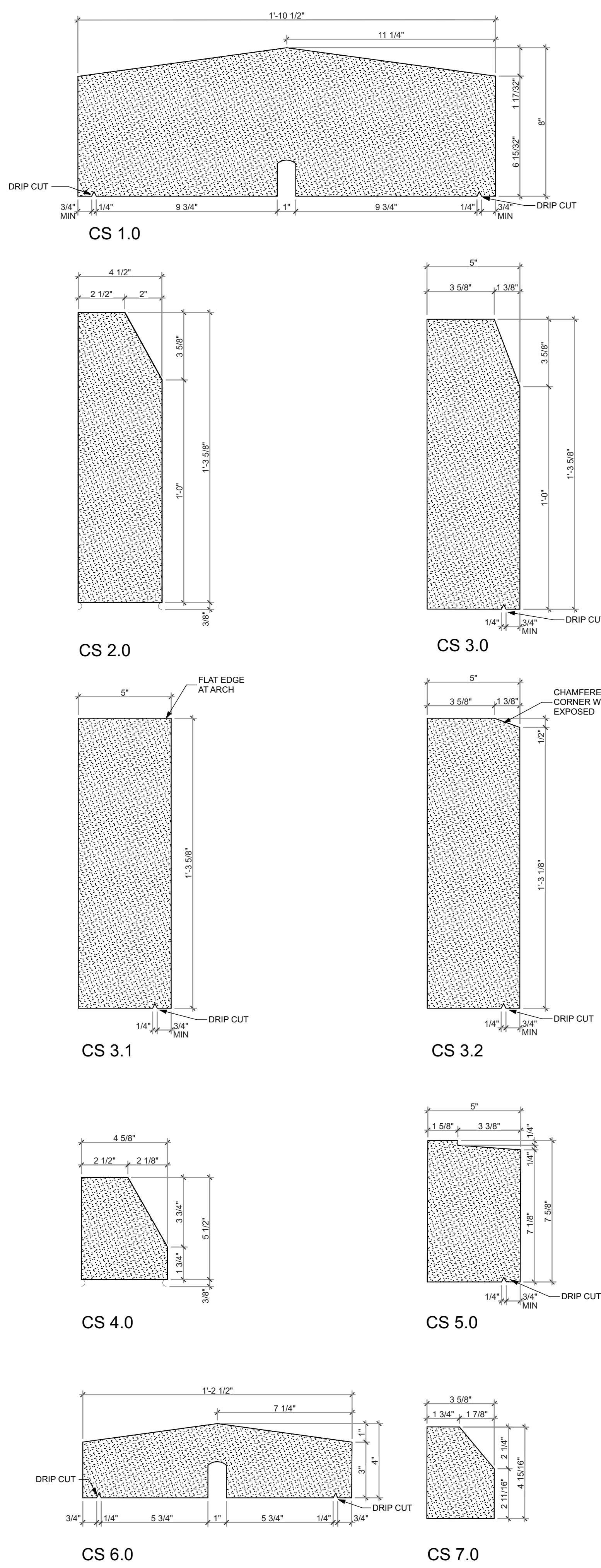
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AF/RS	DF

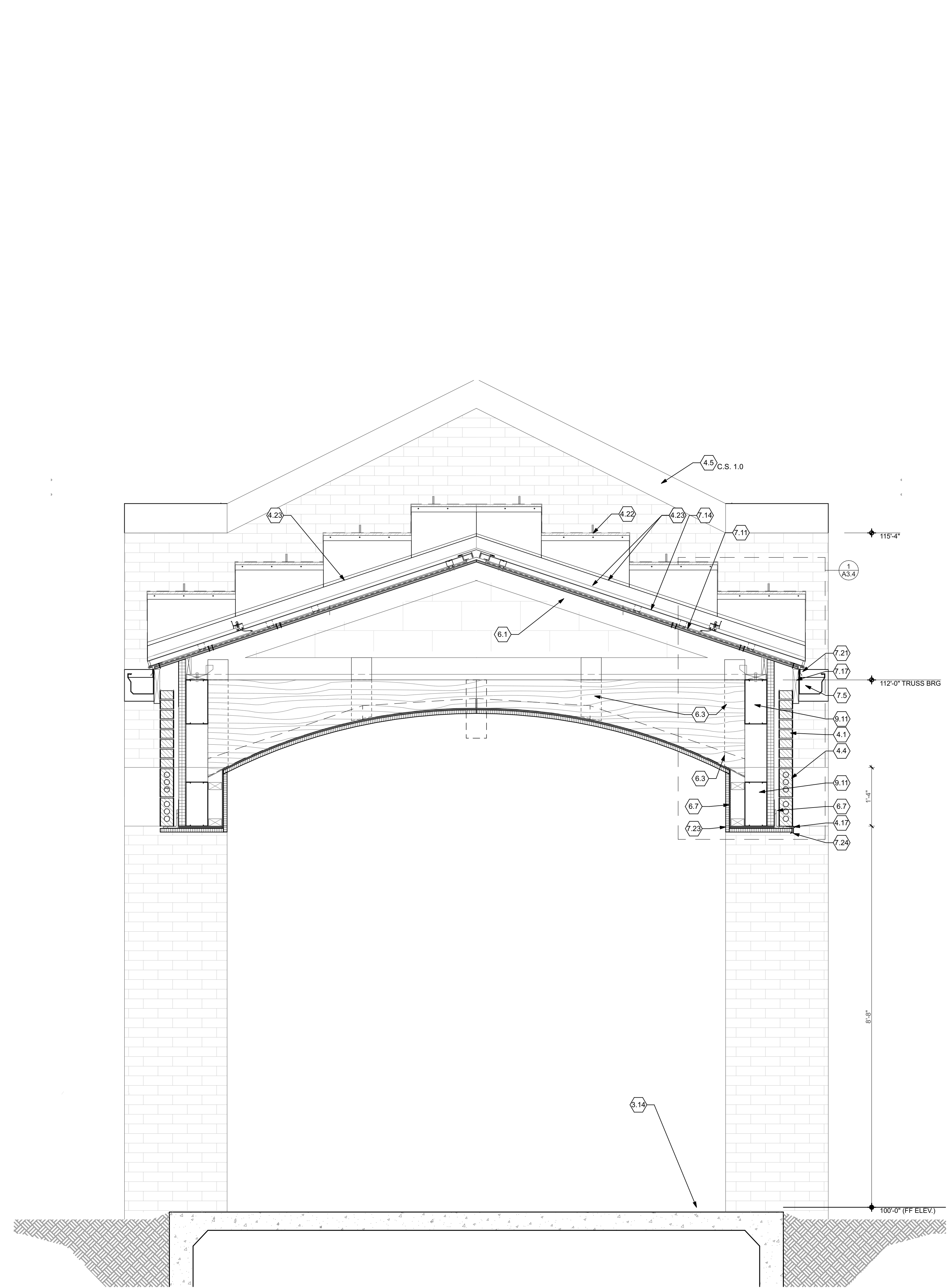
ENTRY WALL SECTIONS

A6.4

PLOT DATE: 12/29/24 @ 10:07 AM LAYOUT: A6-A6.5 WALL SECTIONS AND DETAILS - ENTRY WALL SECTIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud_freytaginc - BIMcloud Software as a Service\231103 Fire Station CD



3
A6.5
CAST STONE DETAILS
SCALE: 3" = 1'-0"



- SECTION NOTES**
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- 1.1 AIR SPACE
 - 1.2 GRADE. REFER TO SITE PLAN
 - 2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
 - 2.2 COMPACTED GRAVEL BACKFILL
 - 3.1 1/4" EXPANSION FILLER.
 - 3.2 2" x 2" CONTINUOUS RIGID PERIMETER INSULATION BOARD.
 - 3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
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 - 4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE
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 - 4.17 STAINLESS STEEL DRIP EDGE
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 - 5.7 METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
 - 5.8 STEEL ROOF DECK. 3" REFER TO STRUCTURAL DRAWINGS.
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 - 6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL
 - 6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
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 - 7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
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 - 7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
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 - 7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
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 - 7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
 - 7.21 METAL DRIP EDGE
 - 7.22 SPRAY APPLIED CELLULOSIC INSULATION
 - 7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
 - 7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN. CLARK DIETRICH CBS150-332
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 - 8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
 - 8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
 - 8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
 - 8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
 - 8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
 - 8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL
 - 8.7 ACCESS DOOR. BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"x36" ACCESS DOOR.
 - 9.1 CFMF @ 16" O.C.
 - 9.2 CFMF BRACING @ 48" O.C.
 - 9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
 - 9.4 CONTINUOUS 3 5/8" CFMF
 - 9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
 - 9.6 5/8" GYPSUM BOARD
 - 9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
 - 9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
 - 9.9 METAL "J" MOLD
 - 9.10 WALL BASE. SEE FINISH SCHEDULE.
 - 9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
 - 9.12 SUSPENDED GYPSUM CEILING
 - 10.1 LOUVER
 - 10.2 GRILLE. REFER TO MECHANICAL DRAWINGS.
 - 12.1 CASEWORK. REFER TO EQUIPMENT DRAWINGS
 - 12.2 WINDOW SHADES. REFER TO PROJECT MANUAL.
 - 23.1 HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS
 - 23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
 - 26.1 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

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www.freytaginc.com
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SIDNEY, OHIO 45365

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
2324 CAMPBELL ROAD
SIDNEY, OH 45365

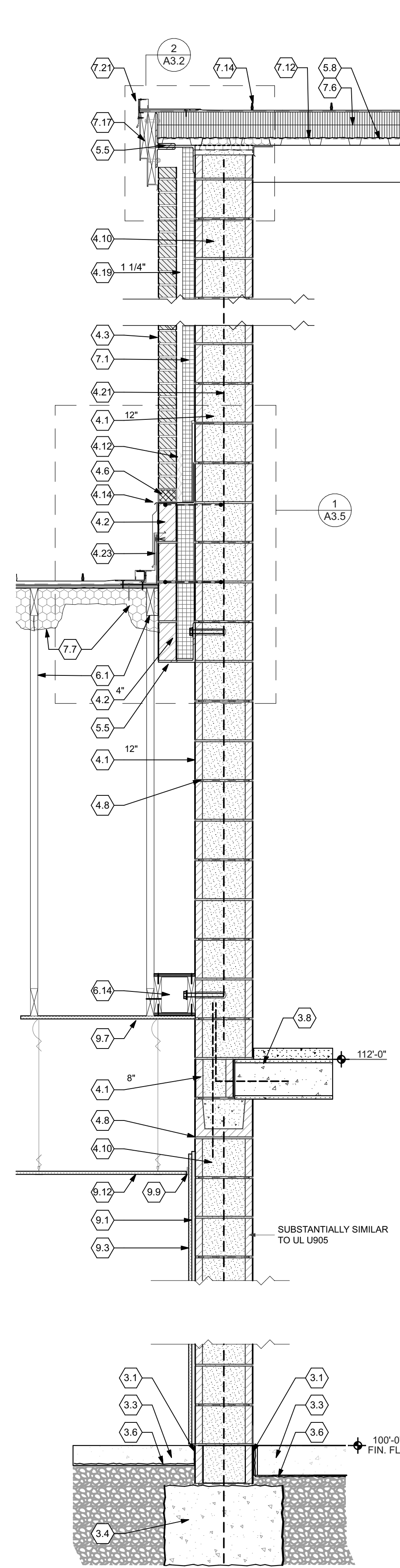
DANIEL J. FREYTAG
8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

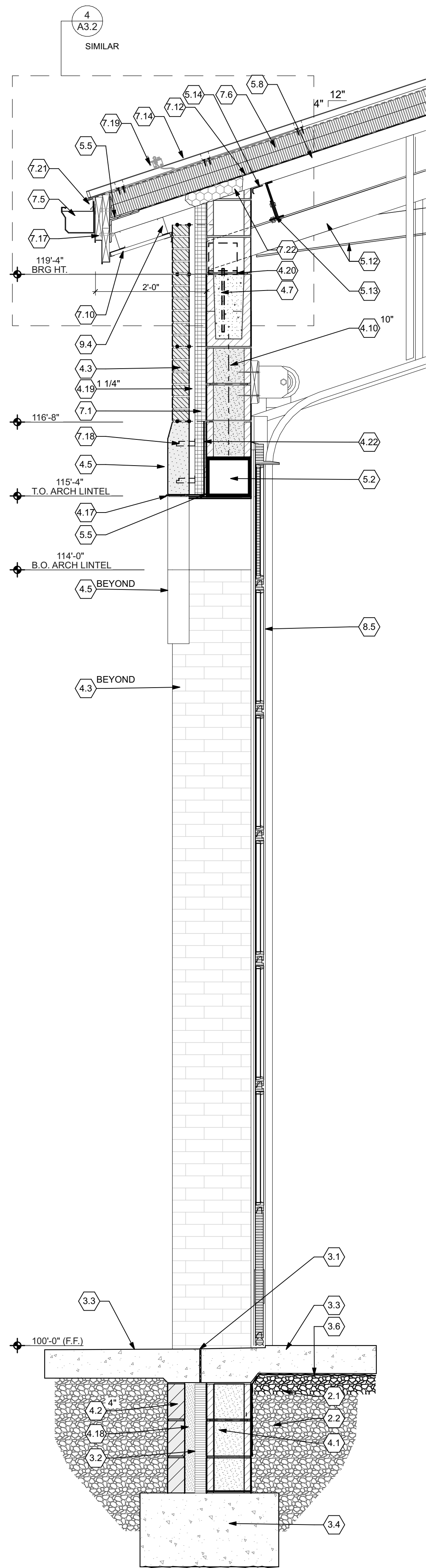
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REVISIONS	
STORM SHELTER REVIEW	
PLAN APPROVAL / BIDDING	
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF
ENTRY WALL SECTIONS	
A6.5	

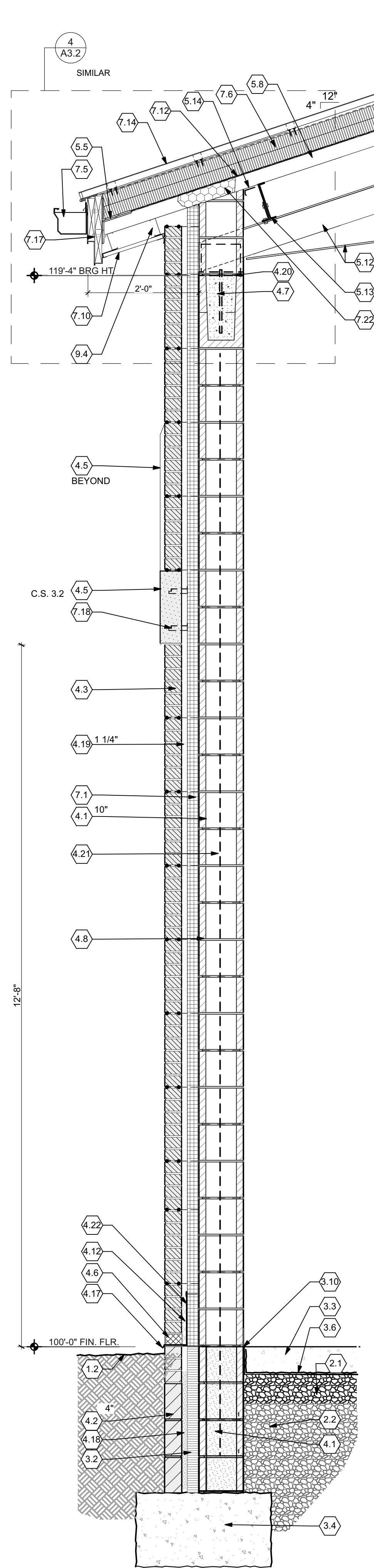
PLOT DATE: 12/29/24 @ 10:08 AM LAYOUT: A6-A6.6 WALL SECTIONS AND DETAILS: WALL SECTIONS FILENAME: 231108 Fire Station CD FILE PATH: BIMcloud - BIMoloud Software as a Service\231103 Fire Station CD



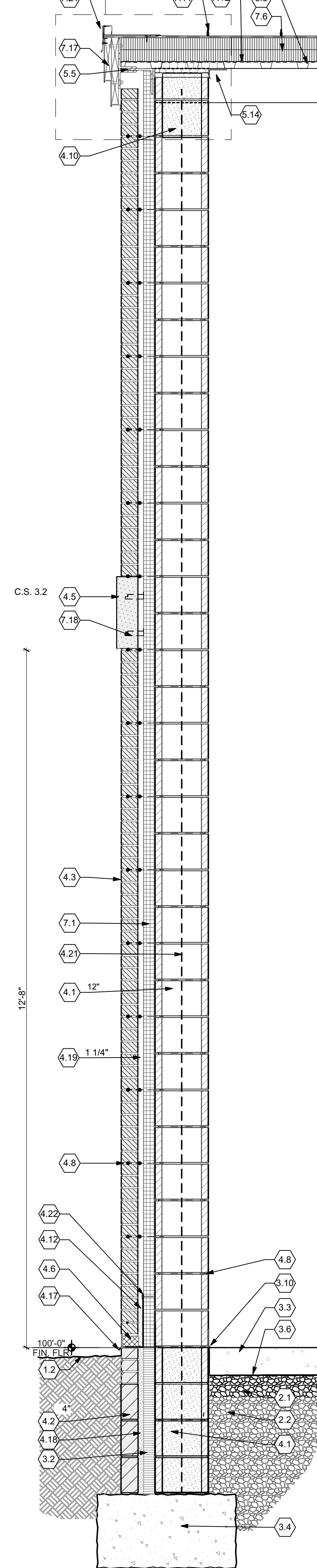
4
A6.6 WALL SECTION
SCALE: 3/4" = 1'-0"



3
A6.6 WALL SECTION
SCALE: 3/4" = 1'-0"



2
A6.6 WALL SECTION
SCALE: 3/4" = 1'-0"



1
A6.6 WALL SECTION
SCALE: 3/4" = 1'-0"

- SECTION NOTES**
- 1.1 AIR SPACE
 - 1.2 GRADE. REFER TO SITE PLAN
 - 2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
 - 2.2 COMPACTED GRAVEL BACKFILL
 - 3.1 1/4" EXPANSION FILLER.
 - 3.2 2" x 24" CONTINUOUS RIGID PERIMETER INSULATION BOARD.
 - 3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
 - 3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
 - 3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
 - 3.7 4" CONCRETE SLAB AND METAL DECK. REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
 - 3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING. REFER TO STRUCTURAL DRAWINGS.
 - 3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION.
 - 3.11 REINFORCED CONCRETE SLAB. REFER TO SITE PLAN FOR DETAIL.
 - 3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS.
 - 3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
 - 3.14 'TURN-DOWN' SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
 - 3.16 EXTERIOR CONCRETE SLAB. REFER TO SITE DRAWINGS.
 - 3.17 CMU FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
 - 4.1 CONCRETE MASONRY UNIT (CMU)
 - 4.2 SOLID CONCRETE MASONRY UNIT (CMU).
 - 4.3 FACE BRICK
 - 4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE
 - 4.5 CAST STONE. REFER TO DETAIL 3/A6.5.
 - 4.6 WEEP VENT @ 32" O.C.
 - 4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.7.1 CONT. 16" DP BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX)
 - 4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
 - 4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
 - 4.11 CONCRETE BRICK
 - 4.12 CAVITY MORTAR PROTECTION
 - 4.13 CUT CMU BLOCK AS REQUIRED.
 - 4.14 METAL THRU WALL FLASHING.
 - 4.15 HORIZONTAL JOINT REINFORCEMENT
 - 4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16" O.C. REFER TO STRUCTURAL FOR REINFORCING
 - 4.17 STAINLESS STEEL DRIP EDGE
 - 4.18 GROUT VOID FULL
 - 4.19 AIRSPACE
 - 4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
 - 4.22 MEMBRANE THRU WALL FLASHING
 - 4.23 FLASHINGS/ COUNTER FLASHING
 - 4.24 WEEP VENT, ONE PER SIDE OF COLUMN
 - 4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
 - 4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5
 - 5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
 - 5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
 - 5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
 - 5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
 - 5.7 METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
 - 5.8 STEEL ROOF DECK. 3" REFER TO STRUCTURAL DRAWINGS.
 - 5.9 METAL PAN STAIR/LANDING. REFER TO STAIR DETAILS.
 - 5.10 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
 - 5.11 METAL GUARD RAIL. REFER TO DETAIL 5/A6.7.
 - 5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
 - 5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
 - 5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
 - 5.15 METAL PAN STAIR / LANDING. REFER TO STAIR DETAILS.
 - 6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
 - 6.2 FRTW 2X10 FASCIA
 - 6.3 FRTW 2X BLOCKING
 - 6.4 FRTW PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
 - 6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
 - 6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL.
 - 6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
 - 6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
 - 6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
 - 6.11 FT WOOD NAILER
 - 6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
 - 6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
 - 6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS
 - 7.1 BOARD STAIR AIR BARRIER / WALL INSULATION. 2" @ CFMF WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
 - 7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
 - 7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
 - 7.4 EXPANSION JOINT
 - 7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
 - 7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS (R30)
 - 7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
 - 7.8 SEALANT W/ BACKER ROD
 - 7.9 SEALANT. REFER TO PROJECT MANUAL.
 - 7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
 - 7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
 - 7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
 - 7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
 - 7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
 - 7.15 CONTINUOUS METAL SIDING BASE FLASHING.
 - 7.16 STEP FLASHING. SEE DETAILS
 - 7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
 - 7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
 - 7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
 - 7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
 - 7.21 METAL DRIP EDGE
 - 7.22 SPRAY APPLIED CELLULOSIC INSULATION
 - 7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
 - 7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN. CLARK DIETRICH CBS150-332
 - 7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
 - 8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
 - 8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
 - 8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
 - 8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
 - 8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
 - 8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL
 - 8.7 ACCESS DOOR. BASIS OF DESIGN: NYSTRUM RGB SERIES HINGED 24"x36" ACCESS DOOR.
 - 9.1 CFMF @ 16" O.C.
 - 9.2 CFMF BRACING @ 48" O.C.
 - 9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
 - 9.4 CONTINUOUS 3 5/8" CFMF
 - 9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
 - 9.6 5/8" GYPSUM BOARD
 - 9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
 - 9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
 - 9.9 METAL 'J' MOLD
 - 9.10 WALL BASE. SEE FINISH SCHEDULE.
 - 9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
 - 9.12 SUSPENDED GYPSUM CEILING
 - 10.1 LOUVER
 - 10.2 GRILLE. REFER TO MECHANICAL DRAWINGS.
 - 12.1 CASEWORK. REFER TO EQUIPMENT DRAWINGS
 - 12.2 WINDOW SHADES. REFER TO PROJECT MANUAL.
 - 23.1 HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS
 - 23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
 - 26.1 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

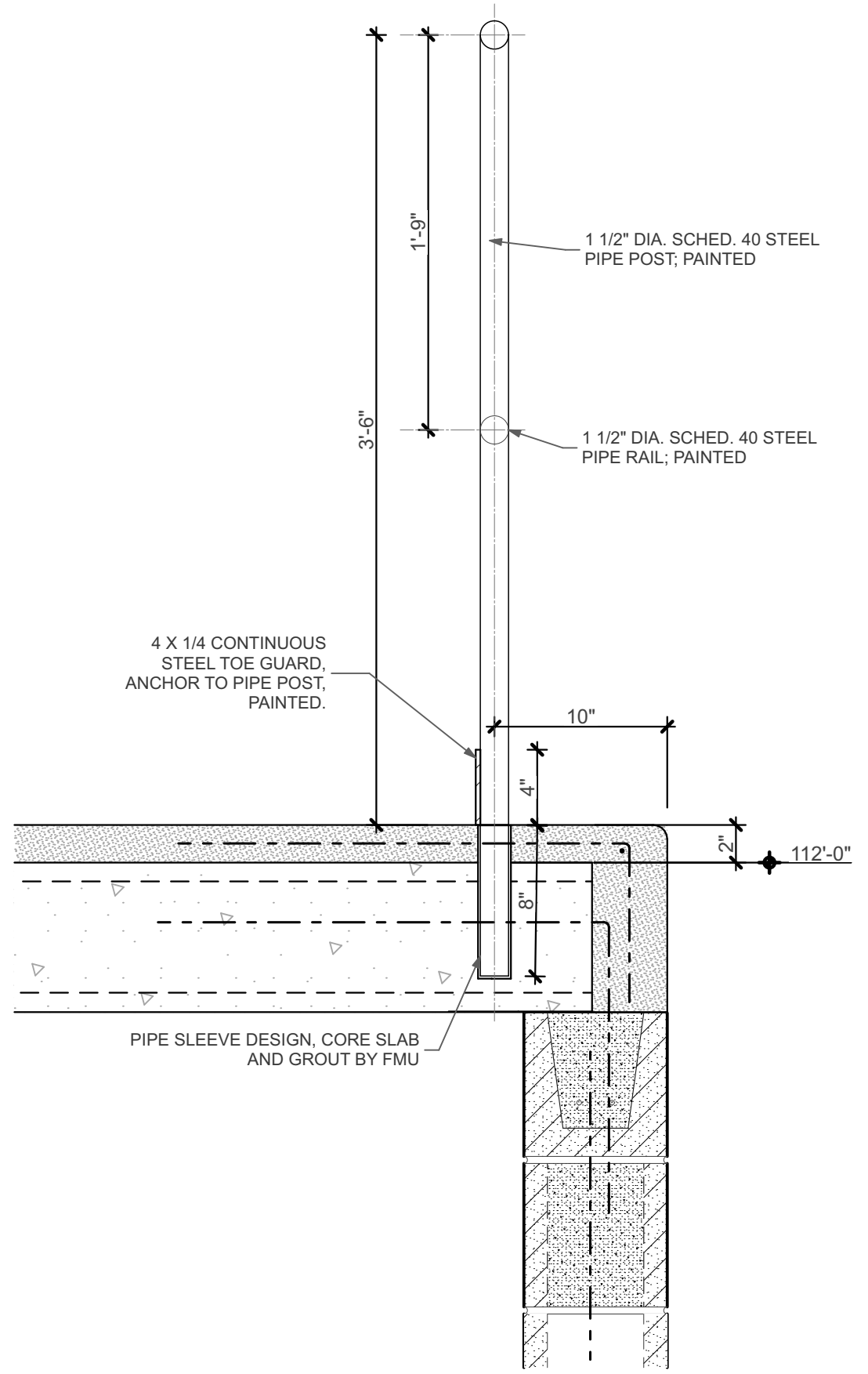
STATE OF OHIO
REGISTERED ARCHITECT
DANIEL J. FREYTAG
8533

Daniel J. Freytag
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

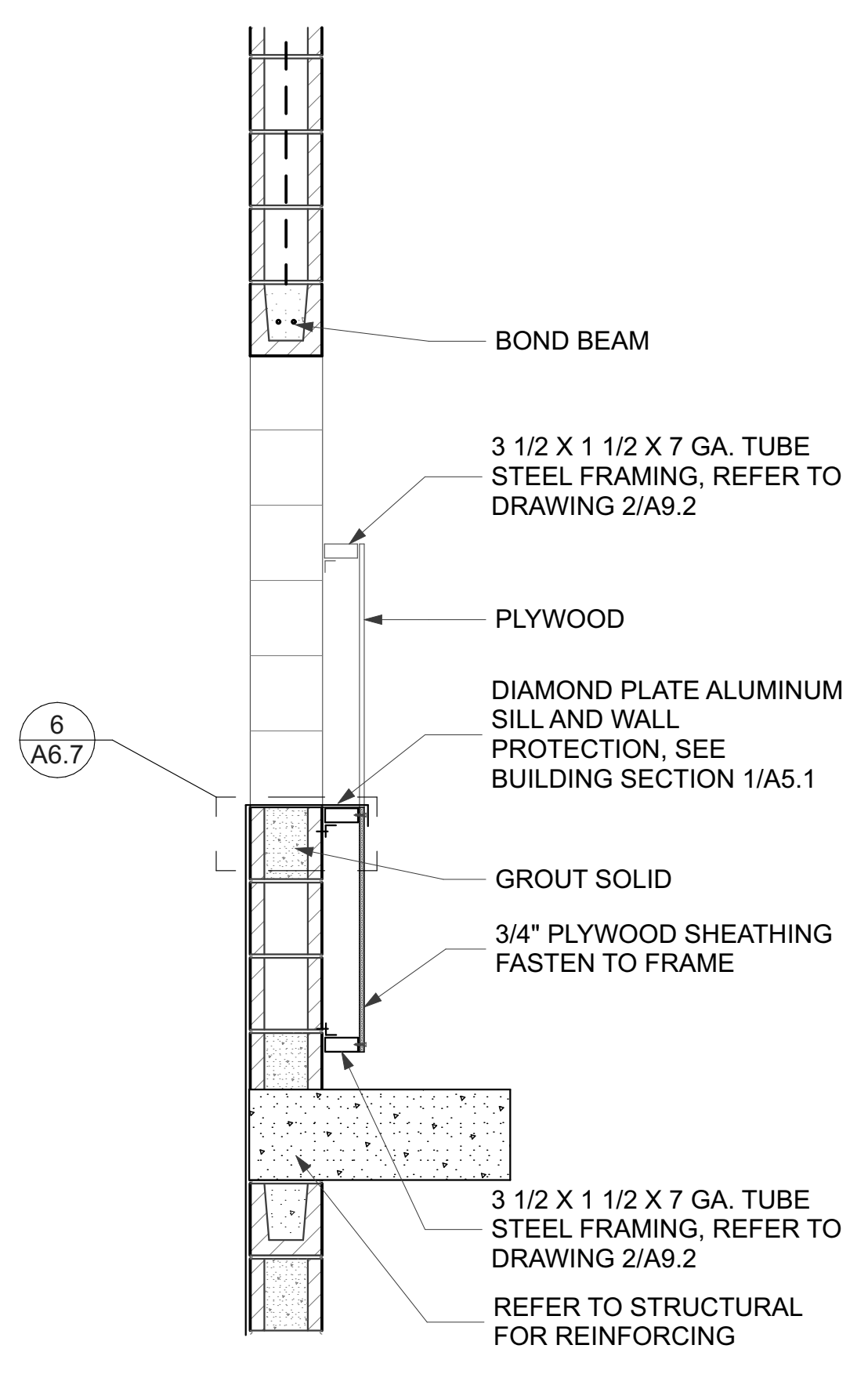
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REVISIONS	
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	
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WALL SECTIONS	
A6.6	

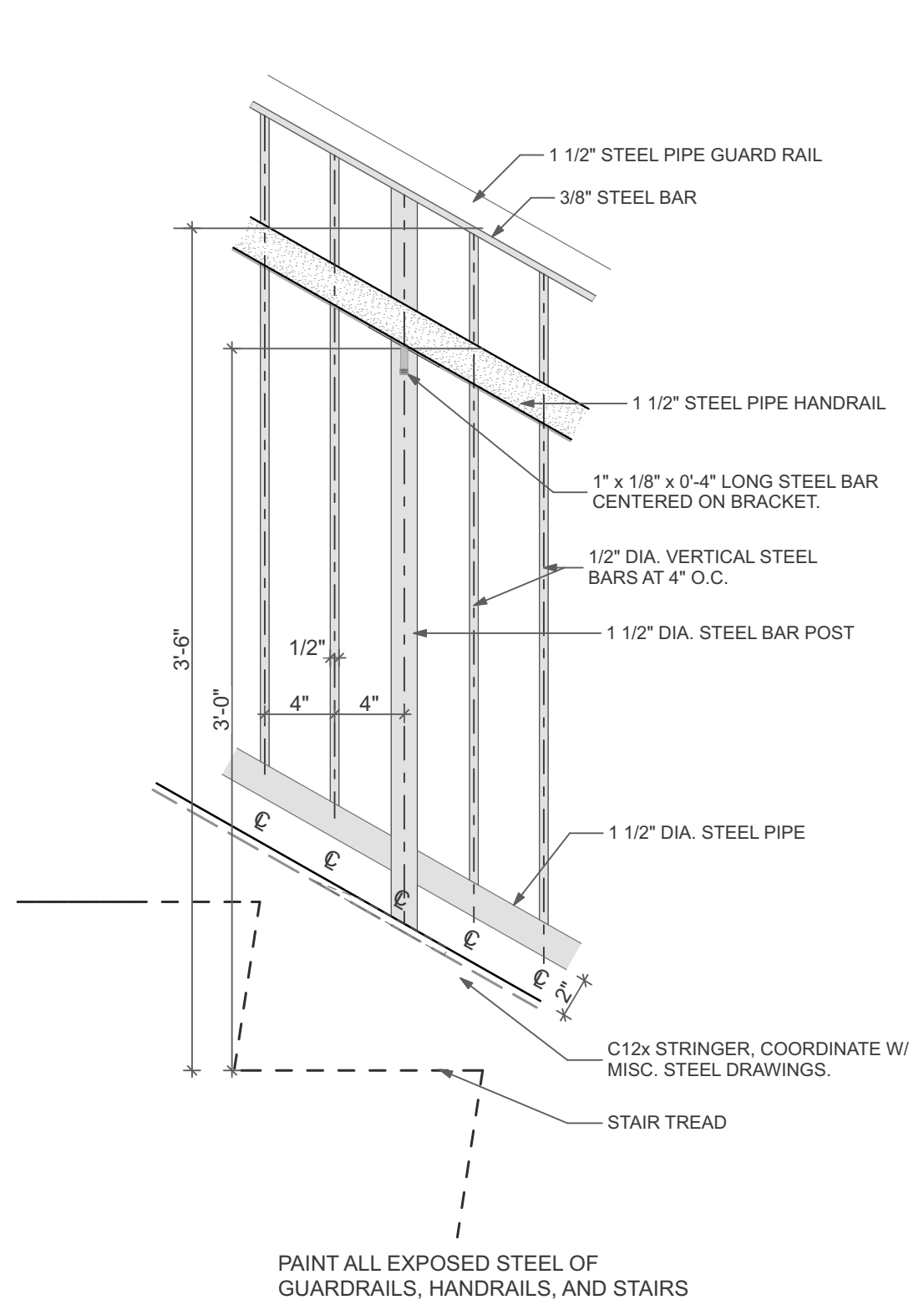
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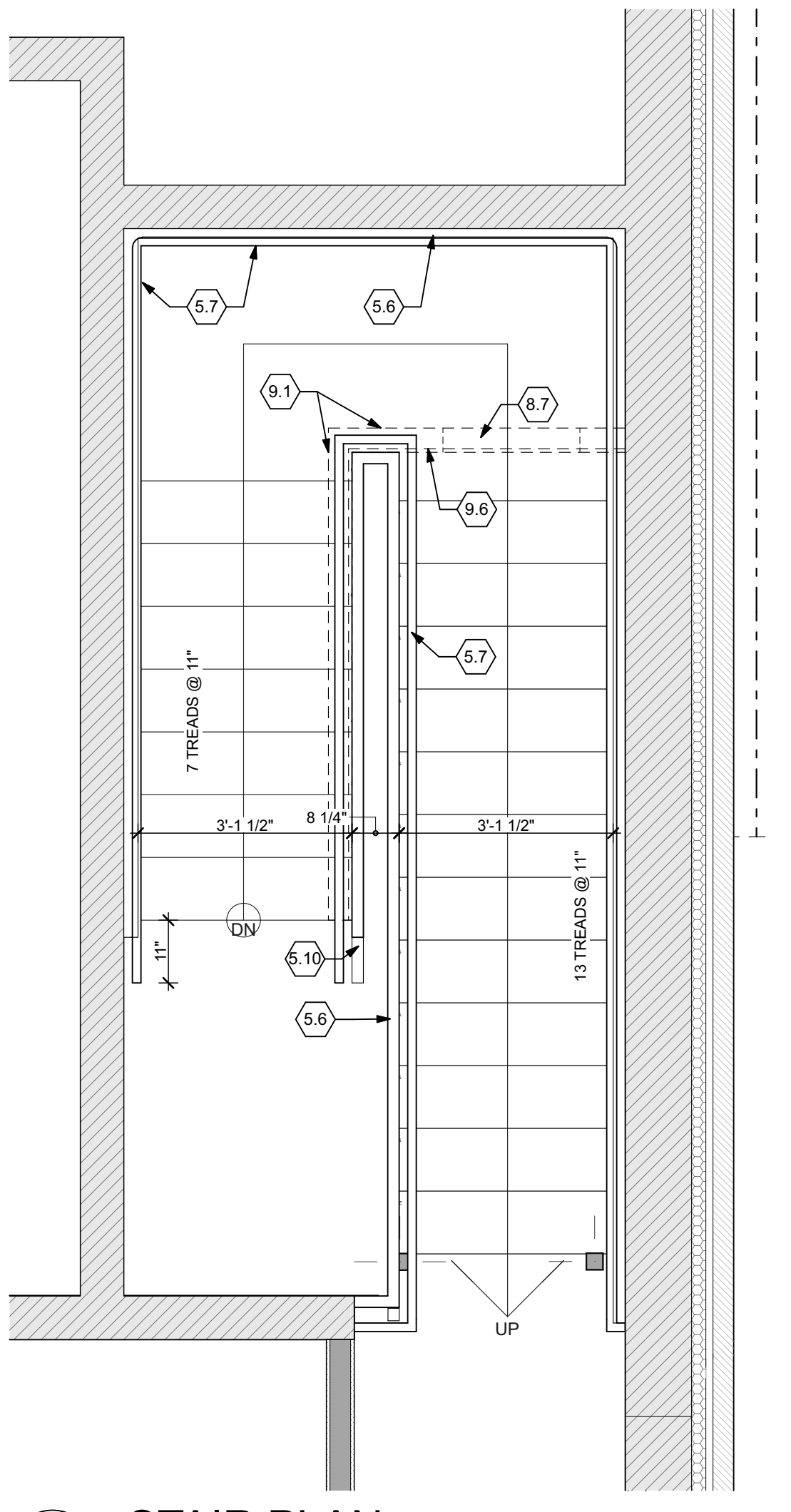
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A6.7 **GUARDRAIL**
SCALE: 1 1/2" = 1'-0"



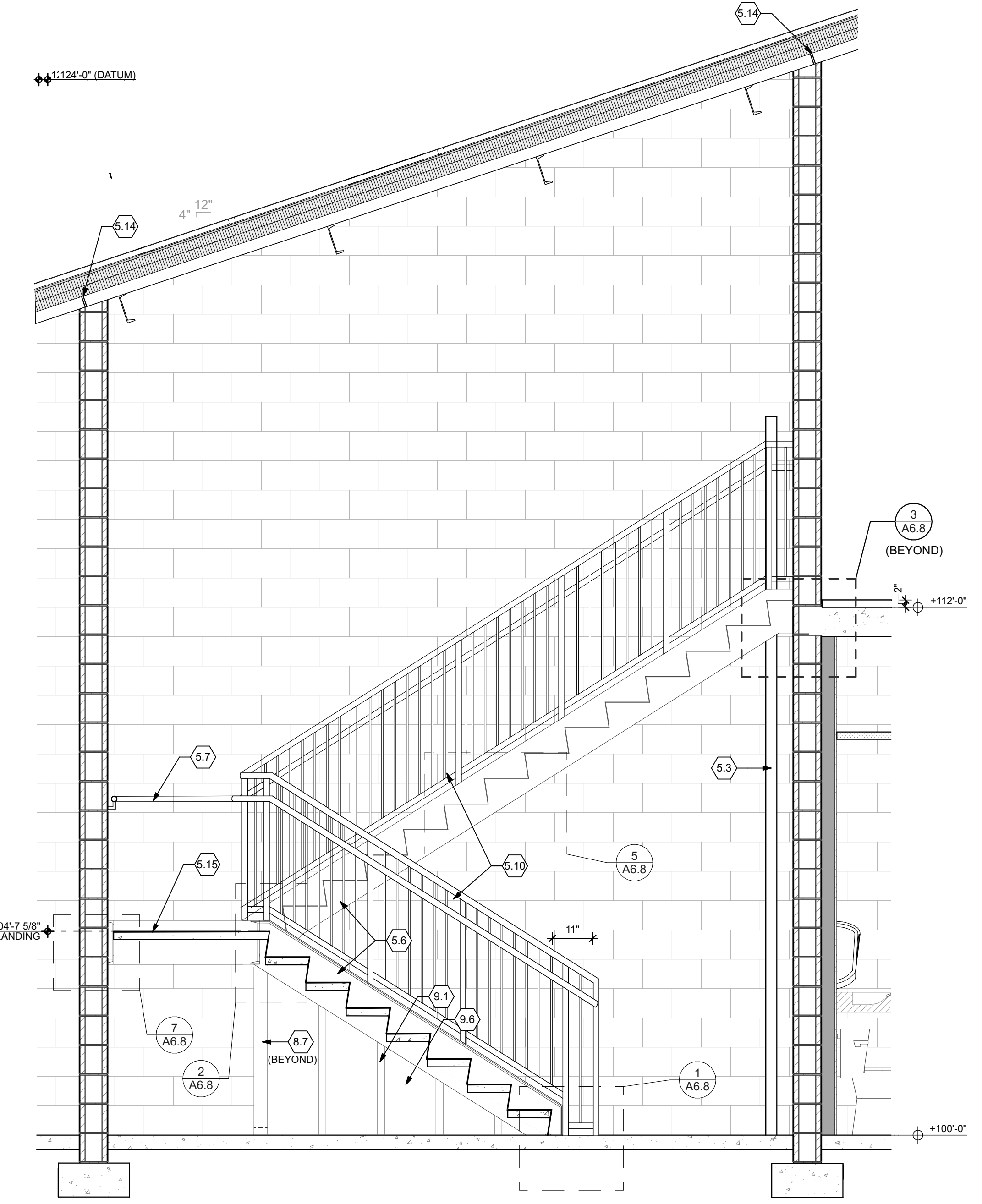
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A6.7 **SECTION AT TRAINING WINDOW**
SCALE: 3/4" = 1'-0"



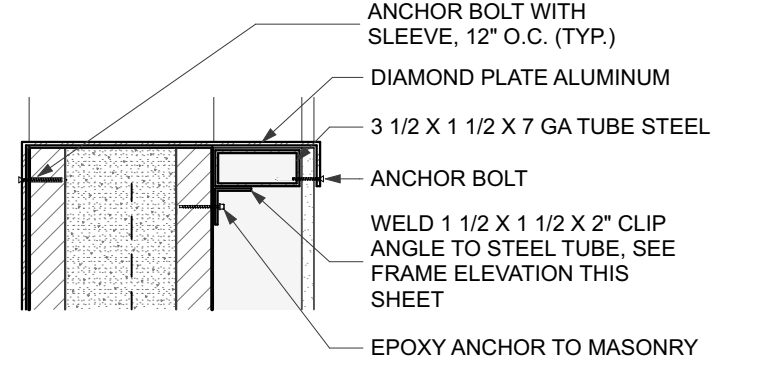
5
A6.7 **RAILING DETAIL**
SCALE: 1 1/2" = 1'-0"



2
A6.7 **STAIR PLAN**
SCALE: 1/2" = 1'-0"



1
A6.7 **STAIR SECTION**
SCALE: 1/2" = 1'-0"



6
A6.7 **TRAINING WINDOW SILL**
SCALE: 1 1/2" = 1'-0"

STRUCTURAL PERFORMANCE: RAILINGS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED:

HANDRAILS AND TOP RAILS OF GUARDS:
UNIFORM LOAD OF 50 LBF / FT. APPLIED IN ANY DIRECTION.
CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.
UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

INFILL OF GUARDS:
CONCENTRATED LOAD OF 50 LBF APPLIED HORIZONTALLY ON AN AREA OF 1 SQ. FT.
INFILL LOAD AND OTHER LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

- SECTION NOTES**
- AIR SPACE GRADE. REFER TO SITE PLAN.
 - 4" COMPACTED GRAVEL BASE (TYPICAL). COMPACTED GRAVEL BACKFILL.
 - 1/4" EXPANSION FILLER.
 - 2" x 24" CONTINUOUS RIGID PERIMETER INSULATION BOARD. CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
 - THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
 - VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
 - 4" CONCRETE SLAB AND METAL DECK. REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
 - PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING. REFER TO STRUCTURAL DRAWINGS.
 - INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - SEALANT @ PERIMETER OF SLAB/FOUNDATION.
 - REINFORCED CONCRETE SLAB. REFER TO SITE PLAN FOR DETAIL.
 - EXTERIOR CONCRETE STOOFF. REFER TO SITE DRAWINGS.
 - PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
 - TURN-DOWN SLAB. REFER TO STRUCTURAL DRAWINGS.
 - CONCRETE FROST STOOFF. REFER TO STRUCTURAL DRAWINGS.
 - EXTERIOR CONCRETE SLAB. REFER TO SITE DRAWINGS.
 - CMU FOUNDATION. REFER TO STRUCTURAL.
 - CONCRETE MASONRY UNIT (CMU).
 - SOLID CONCRETE MASONRY UNIT (CMU).
 - FACE BRICK.
 - FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
 - CAST STONE. REFER TO DETAIL 3/A6.5.
 - WEEP VENT @ 32" O.C.
 - CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - CONT. 16" DP BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX) ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
 - CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS.
 - CONCRETE BRICK.
 - CAVITY MORTAR PROTECTION.
 - CUT CMU BLOCK AS REQUIRED.
 - METAL THRU WALL FLASHING.
 - HORIZONTAL JOINT REINFORCEMENT.
 - FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16" O.C. REFER TO STRUCTURAL FOR REINFORCING.
 - STAINLESS STEEL DRIP EDGE.
 - GROUT VOID FULL.
 - AIRSPACE.
 - BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
 - VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS.
 - MEMBRANE THRU WALL FLASHING.
 - FLASHING/ COUNTER FLASHING.
 - WEEP VENT ONE PER SIDE OF COLUMN.
 - 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION.
 - CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5.
 - BEAM. REFER TO STRUCTURAL DRAWINGS.
 - BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
 - COLUMN. REFER TO STRUCTURAL DRAWINGS.
 - STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
 - STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
 - STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
 - METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
 - STEEL ROOF DECK. 3" REFER TO STRUCTURAL DRAWINGS.
 - METAL PAN STAIR/LANDING. REFER TO STAIR DETAILS.
 - STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
 - METAL GUARD RAIL. REFER TO DETAIL 5/A6.7.
 - ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
 - STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
 - INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
 - METAL PAN STAIR / LANDING. REFER TO STAIR DETAILS.
 - FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
 - FRTW 2X10 FASCIA.
 - FRTW 2X BLOCKING.
 - FRTW PLATE. REFER TO STRUCTURAL.
 - FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
 - 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
 - FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL.
 - 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
 - CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
 - WOOD POST. REFER TO STRUCTURAL DRAWINGS.
 - F T WOOD NAILER.
 - FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
 - FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS.
 - FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS.
 - BOARD STOCK AIR BARRIER / WALL INSULATION. 2" @ CFMF WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
 - CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
 - METAL PANEL SIDING. REFER TO PROJECT MANUAL.
 - EXPANSION JOINT.
 - 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS.
 - POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2 1/2" THICK LAYERS W/ STAGGERED JOINTS. (R30)
 - CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
 - SEALANT W/ BACKER ROD.
 - SEALANT. REFER TO PROJECT MANUAL.
 - METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
 - SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL.
 - VAPOR RETARDER. REFER TO PROJECT MANUAL.
 - SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL.
 - STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL.
 - CONTINUOUS METAL SIDING BASE FLASHING.
 - STEP FLASHING. SEE DETAILS.
 - ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING.
 - STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG.
 - ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL.
 - FLASHING / COUNTERFLASHING. SEE DETAIL.
 - METAL DRIP EDGE.
 - SPRAY APPLIED CELLULOSIC INSULATION.
 - EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL.
 - CURVED VINYL CASING BEAD. BASIS OF DESIGN. CLARK DIETRICH CBS150-332.
 - SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
 - DOOR & FRAME. REFER TO DOOR SCHEDULE.
 - WINDOW. REFER TO FLOOR PLAN FOR TYPE.
 - THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
 - ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
 - OVERHEAD DOOR. REFER TO DOOR SCHEDULE.
 - REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
 - ACCESS DOOR. BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"x36" ACCESS DOOR.
 - CFMF @ 16" O.C.
 - CFMF BRACING @ 48" O.C.
 - 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT.
 - CONTINUOUS 3 5/8" CFMF.
 - WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
 - 5/8" GYPSUM BOARD.
 - 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
 - SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
 - METAL J" MOLD.
 - WALL BASE. SEE FINISH SCHEDULE.
 - 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS.
 - SUSPENDED GYPSUM CEILING.
 - LOUVER.
 - GRILLE. REFER TO MECHANICAL DRAWINGS.
 - CASEWORK. REFER TO EQUIPMENT DRAWINGS.
 - WINDOW SHADES. REFER TO PROJECT MANUAL.
 - HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS.
 - MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
 - LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

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SIDNEY, OHIO 45365

**NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY**

2324 CAMPBELL ROAD
SIDNEY, OH 45365

DANIEL J. FREYTAG
REGISTERED ARCHITECT
8533

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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REVISIONS

STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

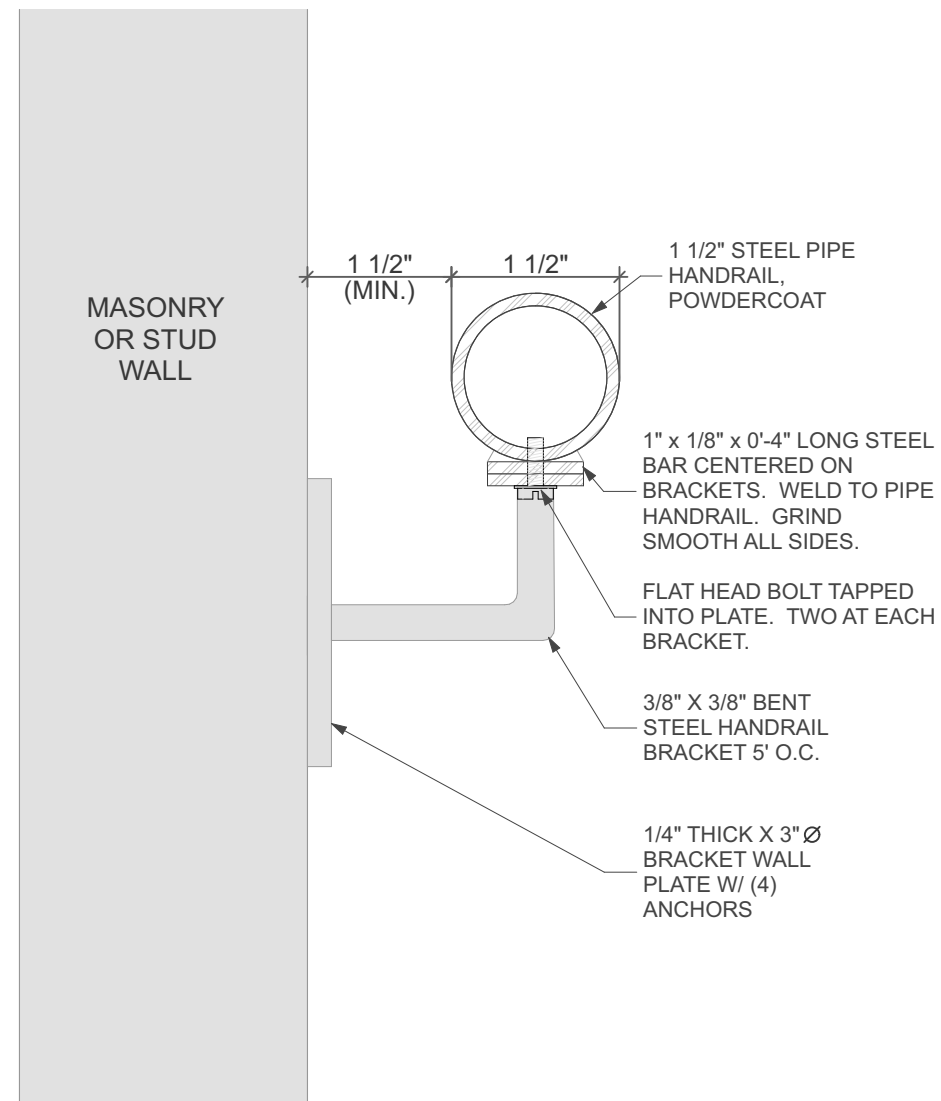
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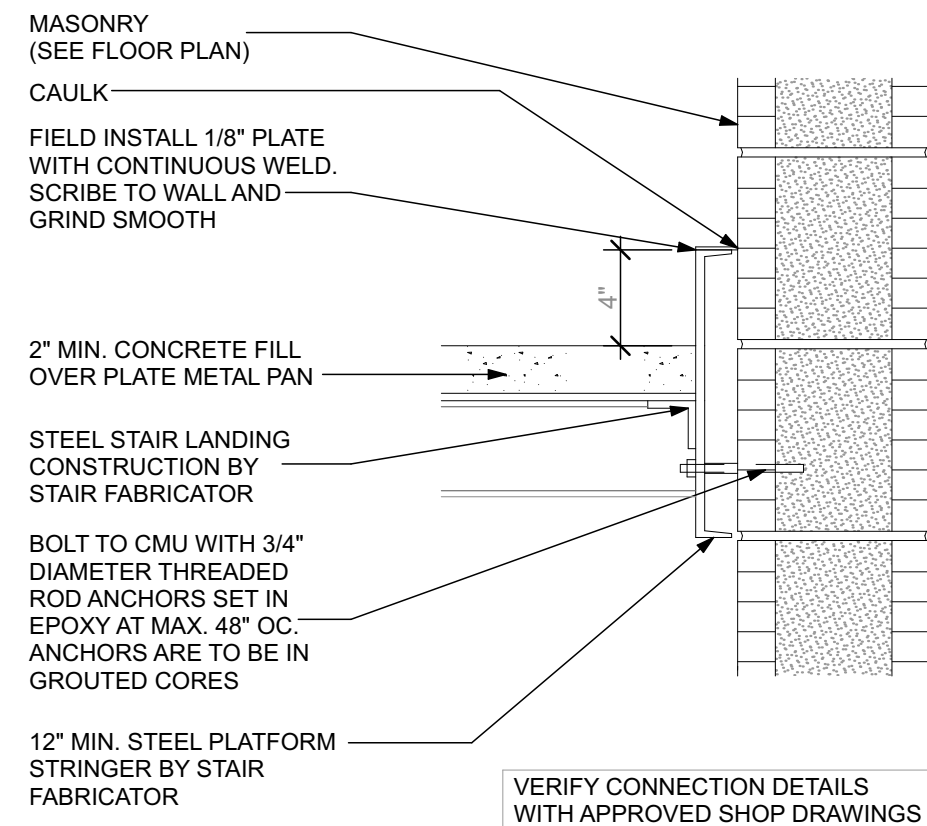
STAIR PLAN AND SECTION

A6.7

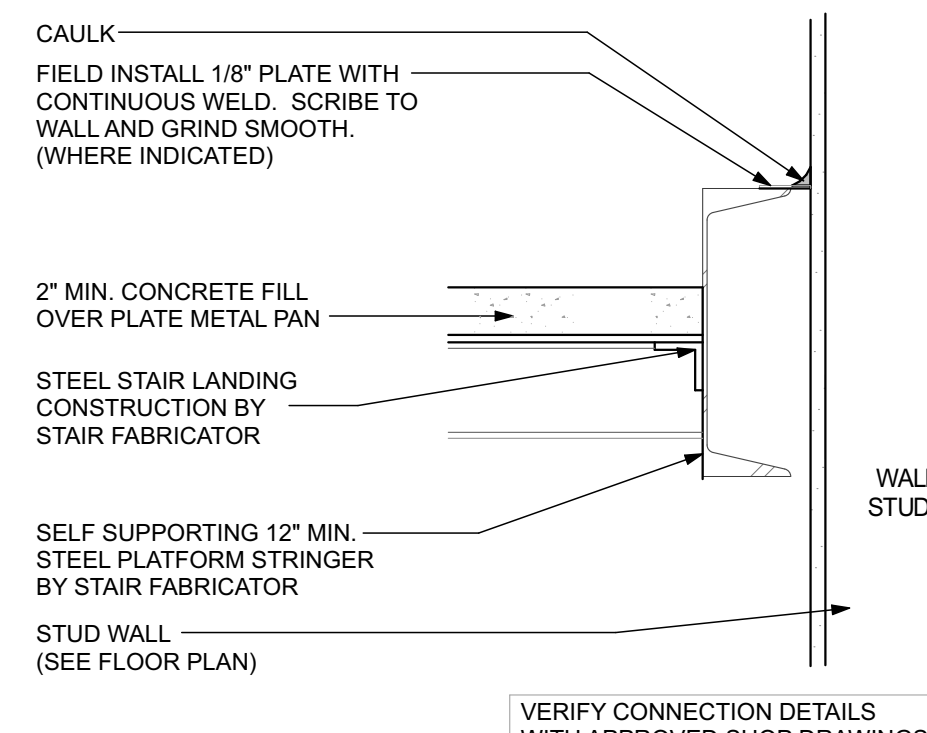
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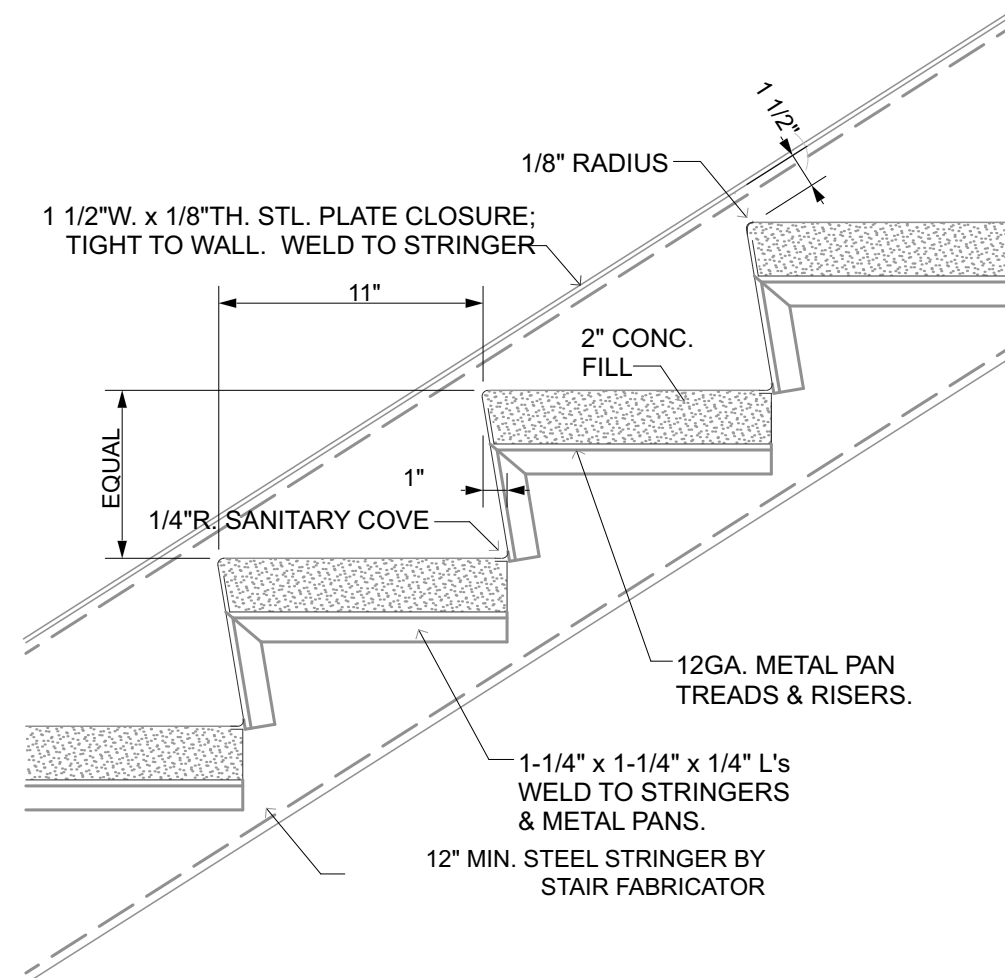
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A6.8 **HANDRAIL DETAIL**
SCALE: 6" = 1'-0"



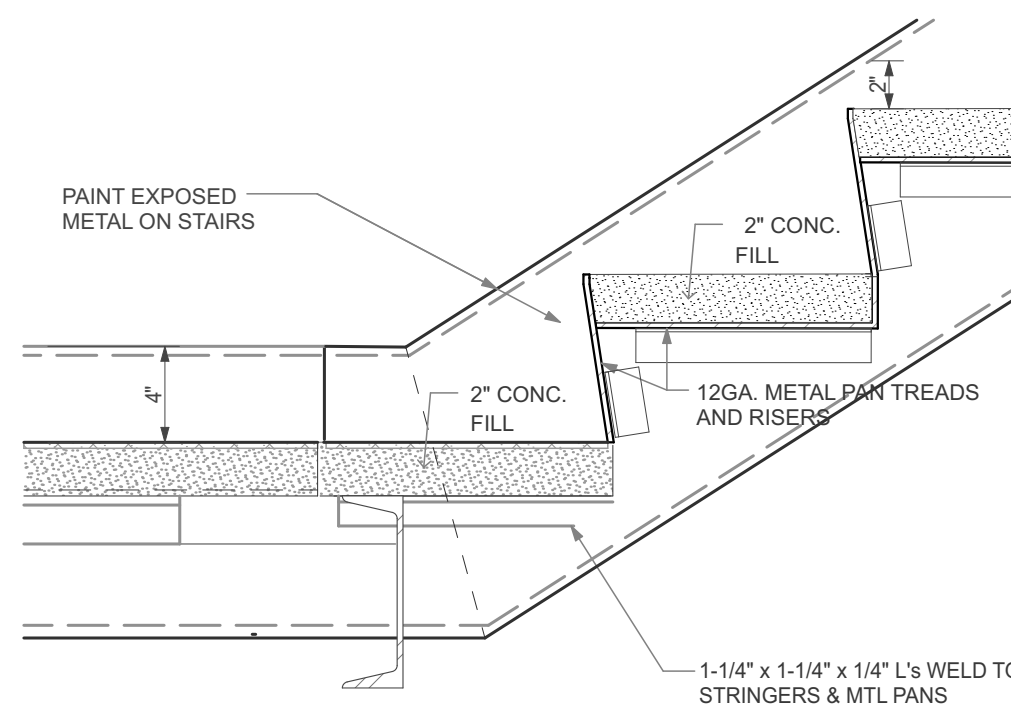
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A6.8 **CONNECTION AT MASONRY WALL**
SCALE: 1 1/2" = 1'-0"



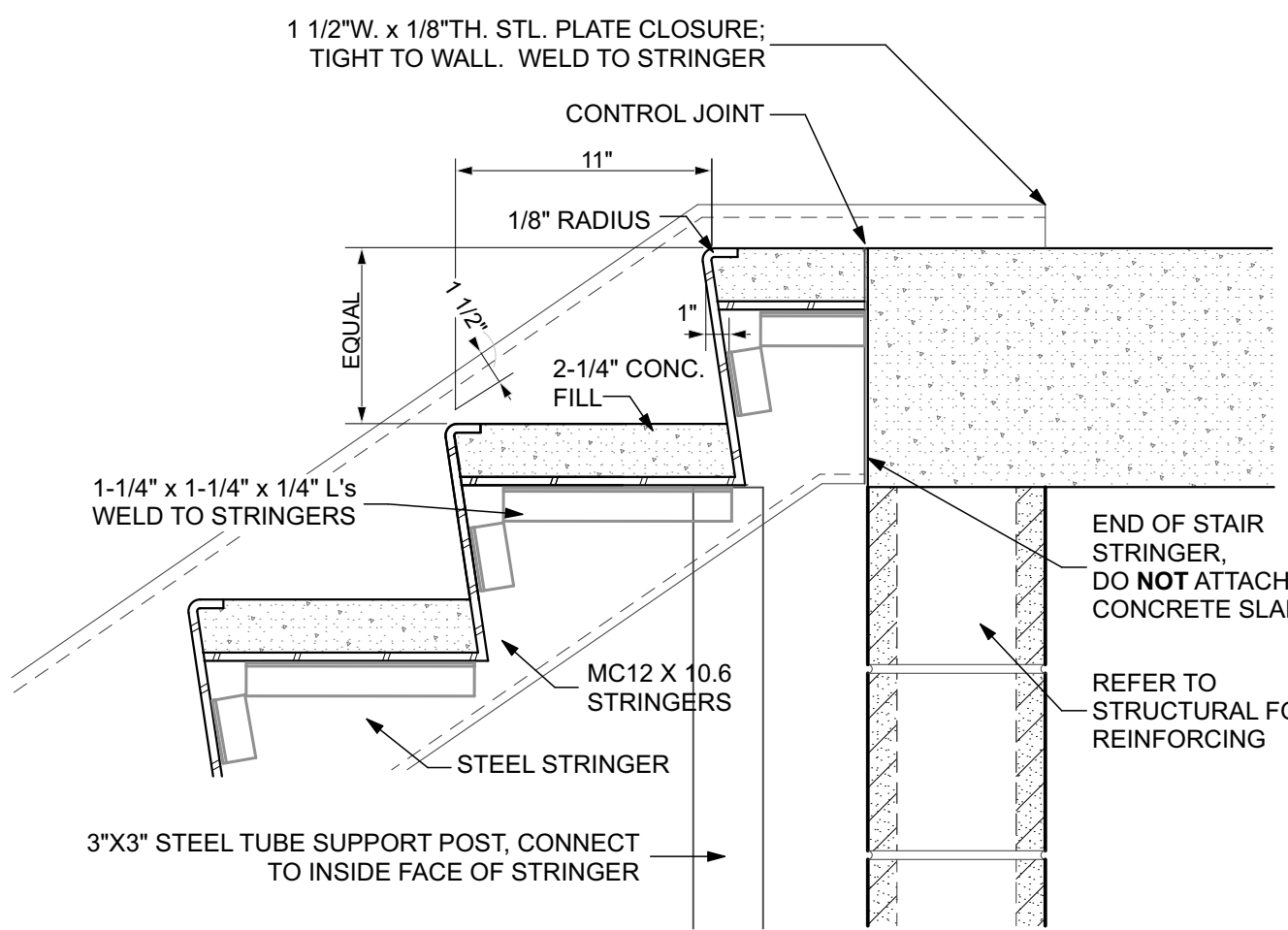
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A6.8 **CONNECTION AT STUD WALL**
SCALE: 1 1/2" = 1'-0"



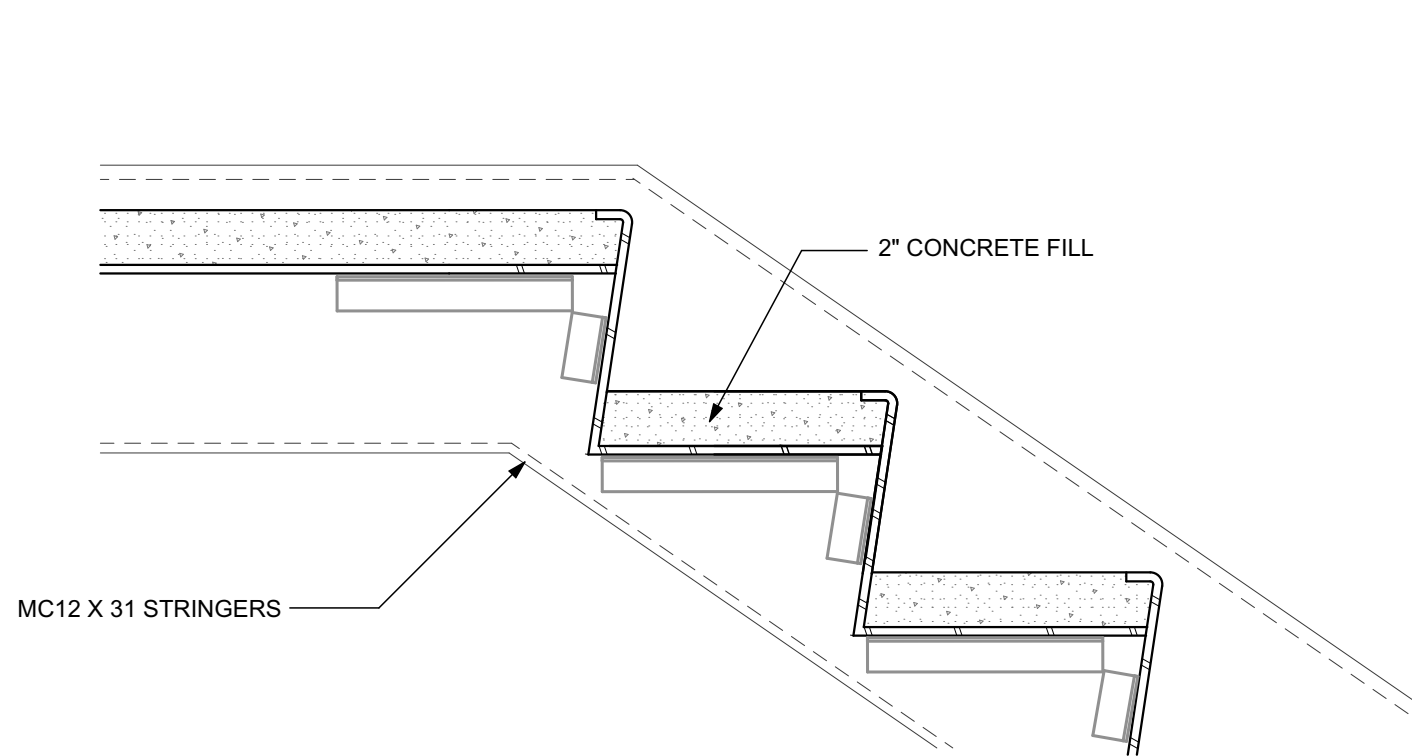
5
A6.8 **TYP. STAIR DETAIL**
SCALE: 1 1/2" = 1'-0"



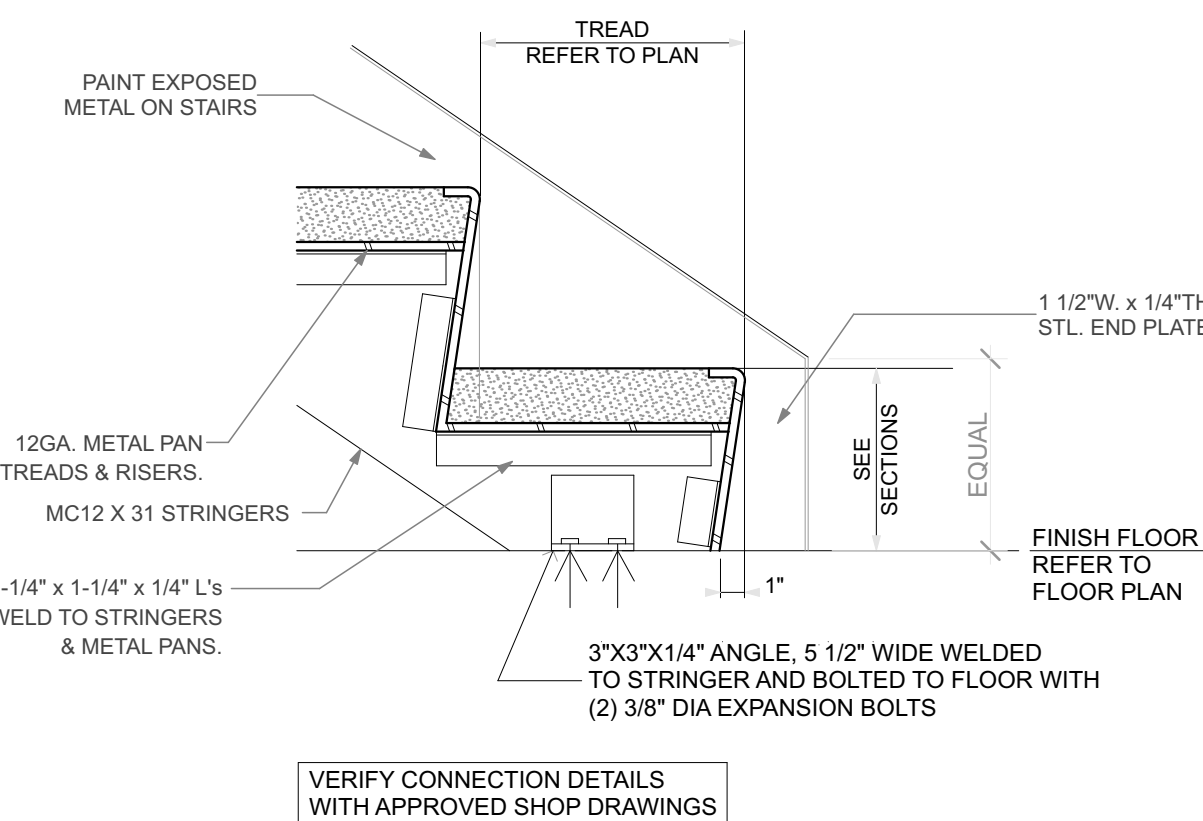
4
A6.8 **LANDING DETAIL**
SCALE: 1 1/2" = 1'-0"



3
A6.8 **TOP OF STAIR**
SCALE: 1 1/2" = 1'-0"



2
A6.8 **LANDING DETAIL**
SCALE: 1 1/2" = 1'-0"



1
A6.8 **BOTTOM OF STAIR**
SCALE: 1 1/2" = 1'-0"

- SECTION NOTES**
- SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- 1.1 AIR SPACE
 - 1.2 GRADE, REFER TO SITE PLAN
 - 2.1 4" COMPACTED GRAVEL BASE (TYPICAL). COMPACTED GRAVEL BACKFILL
 - 3.1 1/4" EXPANSION FILLER.
 - 3.2 2" X 24" CONTINUOUS RIGID PERIMETER INSULATION BOARD. REFER TO STRUCTURAL DRAWINGS.
 - 3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
 - 3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
 - 3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
 - 3.7 4" CONCRETE SLAB AND METAL DECK. REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
 - 3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING. REFER TO STRUCTURAL DRAWINGS.
 - 3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
 - 3.11 REINFORCED CONCRETE SLAB. REFER TO SITE PLAN FOR DETAIL.
 - 3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
 - 3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
 - 3.14 TURN-DOWN SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
 - 3.16 EXTERIOR CONCRETE SLAB. REFER TO SITE DRAWINGS.
 - 3.17 CMU FOUNDATION. REFER TO STRUCTURAL.
 - 4.1 CONCRETE MASONRY UNIT (CMU)
 - 4.2 SOLID CONCRETE MASONRY UNIT (CMU).
 - 4.3 FACE BRICK.
 - 4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE
 - 4.5 CAST STONE. REFER TO DETAIL 3/A6.5.
 - 4.6 WEEP VENT @ 32" O.C.
 - 4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.7.1 CONT. 16" DP BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX) ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
 - 4.9 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
 - 4.10 CONCRETE BRICK.
 - 4.11 CAVITY MORTAR PROTECTION
 - 4.12 CUT CMU BLOCK AS REQUIRED.
 - 4.13 METAL THRU WALL FLASHING.
 - 4.14 HORIZONTAL JOINT REINFORCEMENT
 - 4.15 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX) ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
 - 4.16 STAINLESS STEEL DRIP EDGE
 - 4.17 GROUT VOID FULL
 - 4.18 AIRSPACE
 - 4.19 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 4.20 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
 - 4.21 MEMBRANE THRU WALL FLASHING
 - 4.22 FLASHING/ COUNTER FLASHING
 - 4.23 WEEP VENT, ONE PER SIDE OF COLUMN
 - 4.24 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
 - 4.25 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5
 - 5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
 - 5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
 - 5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
 - 5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
 - 5.7 METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
 - 5.8 STEEL ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
 - 5.9 METAL PAN STAIR/LANDING. REFER TO STAIR DETAILS.
 - 5.10 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
 - 5.11 METAL GUARD RAIL. REFER TO DETAIL 5/A6.7.
 - 5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
 - 5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
 - 5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
 - 5.15 METAL PAN STAIR / LANDING. REFER TO STAIR DETAILS.
 - 6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
 - 6.2 FRTW 2X10 FASCIA.
 - 6.3 FRTW 2X BLOCKING
 - 6.4 FRTW PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
 - 6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
 - 6.7 FRT EXTERIOR GRADE PLYWOOD STRUCTURAL. REFER TO PROJECT MANUAL.
 - 6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
 - 6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
 - 6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
 - 6.11 FT WOOD NAILER
 - 6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
 - 6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
 - 6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS
 - 7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 2" @ CFMF WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
 - 7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
 - 7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
 - 7.4 EXPANSION JOINT
 - 7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
 - 7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
 - 7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
 - 7.8 SEALANT W/ BACKER ROD
 - 7.9 SEALANT. REFER TO PROJECT MANUAL.
 - 7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
 - 7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL.
 - 7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL.
 - 7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL.
 - 7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL.
 - 7.15 CONTINUOUS METAL SIDING BASE FLASHING.
 - 7.16 STEP FLASHING. SEE DETAILS
 - 7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
 - 7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
 - 7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
 - 7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
 - 7.21 METAL DRIP EDGE
 - 7.22 SPRAY APPLIED CELLULOSIC INSULATION
 - 7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
 - 7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
 - 7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
 - 8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
 - 8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
 - 8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
 - 8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
 - 8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
 - 8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL
 - 8.7 ACCESS DOOR. BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.
 - 9.1 CFMF @ 16" O.C.
 - 9.2 CFMF BRACING @ 48" O.C.
 - 9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
 - 9.4 CONTINUOUS 3 5/8" CFMF
 - 9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
 - 9.6 5/8" GYPSUM BOARD
 - 9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
 - 9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
 - 9.9 METAL J' MOLD
 - 9.10 WALL BASE. SEE FINISH SCHEDULE.
 - 9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
 - 9.12 SUSPENDED GYPSUM CEILING
 - 10.1 LOUVER
 - 10.2 GRILLE. REFER TO MECHANICAL DRAWINGS.
 - 12.1 CASEWORK. REFER TO EQUIPMENT DRAWINGS
 - 12.2 WINDOW SHADES. REFER TO PROJECT MANUAL.
 - 23.1 HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS
 - 23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
 - 26.1 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

DANIEL J. FREYTAG
REGISTERED ARCHITECT
8533

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

These designs and all items depicted herein, whether in writing or graphically, as instruments of professional service, may not be altered or changed, in any way, without the prior knowledge, and written consent of the Architect. Any change made without the Architect's written approval will void all such documents and instruments and the Architect will not be personally liable for any damage, harm or loss caused thereby.

REVISIONS

STORM SHELTER REVIEW	PLAN APPROVAL / BIDDING
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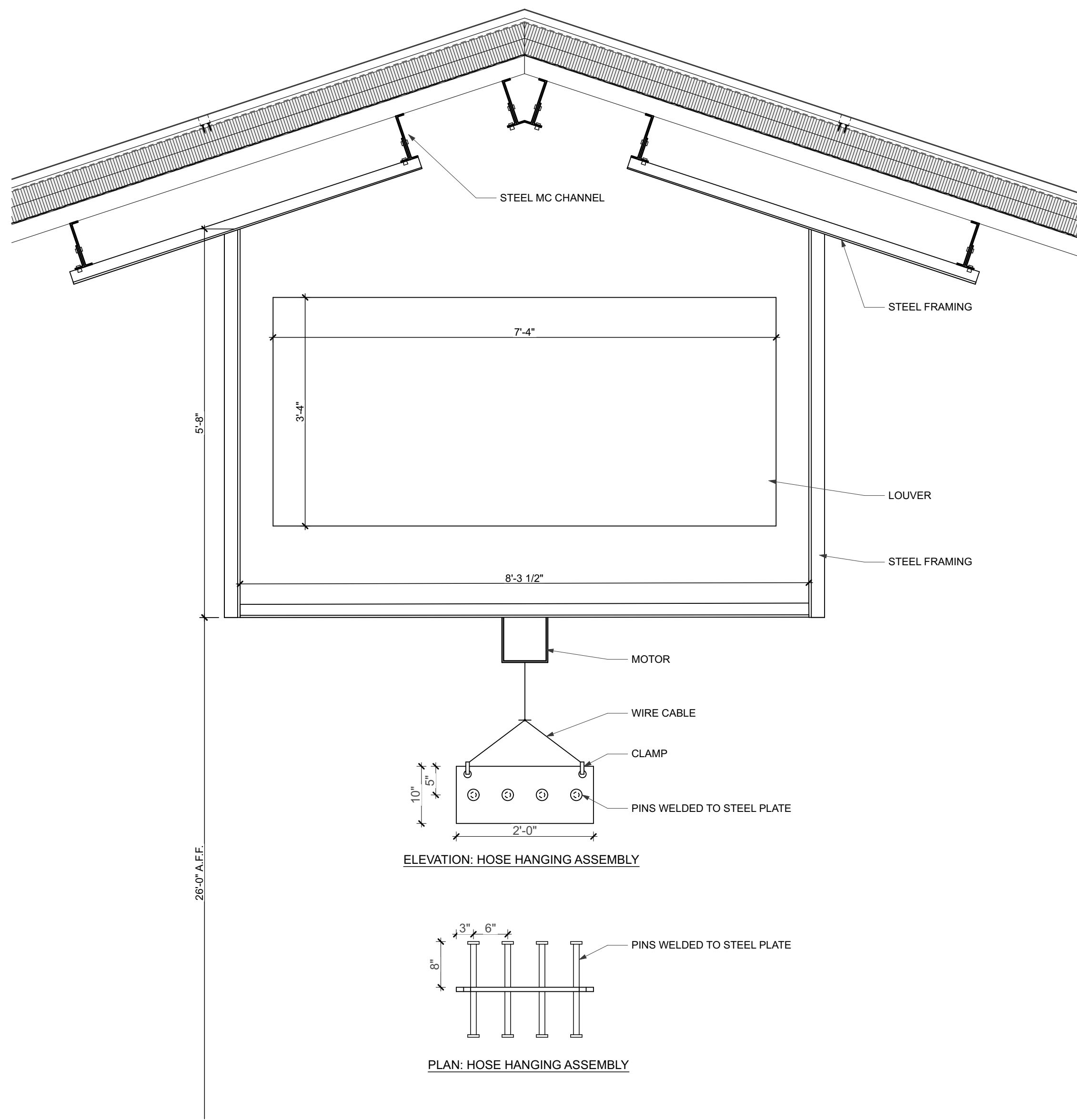
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AF/RS	DF

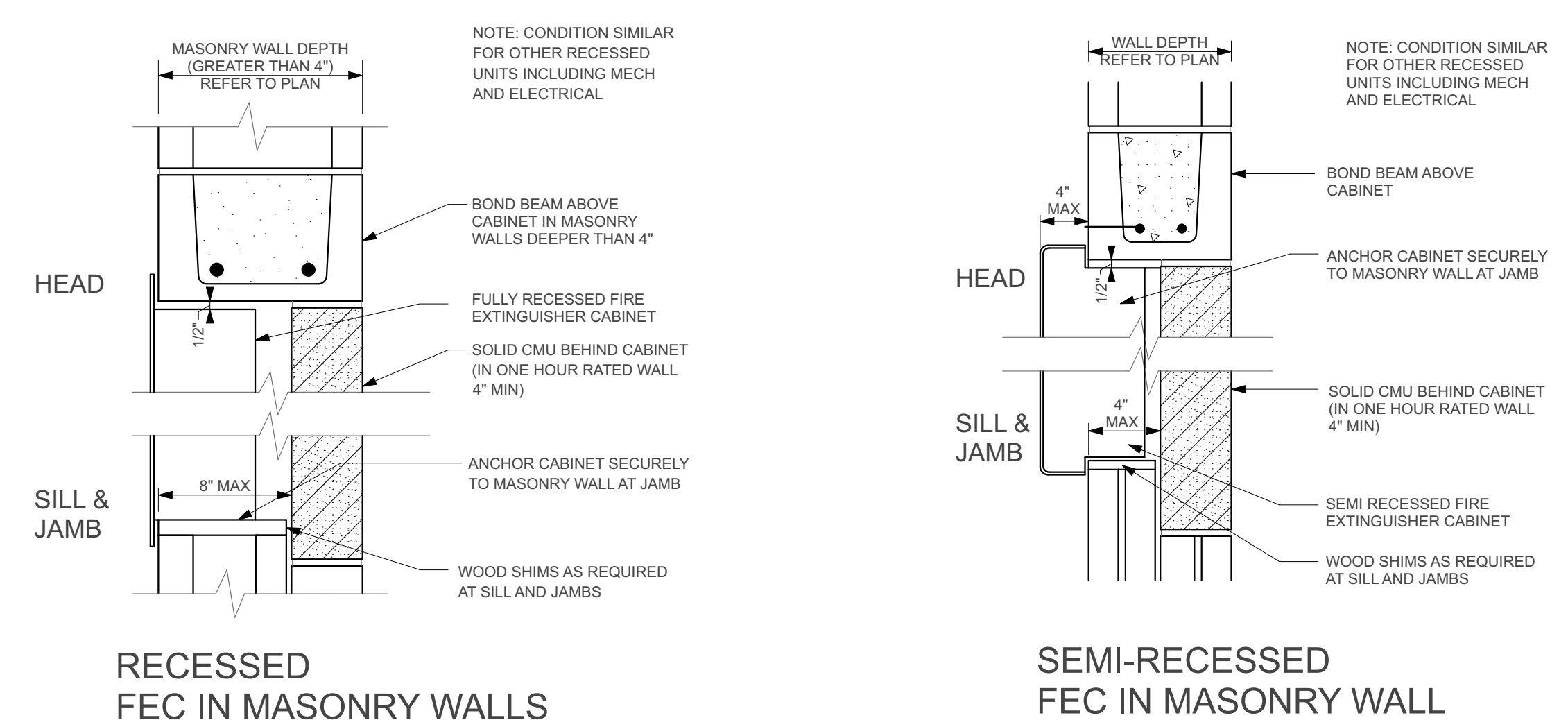
STAIR AND MEZZANINE DETAILS

A6.8

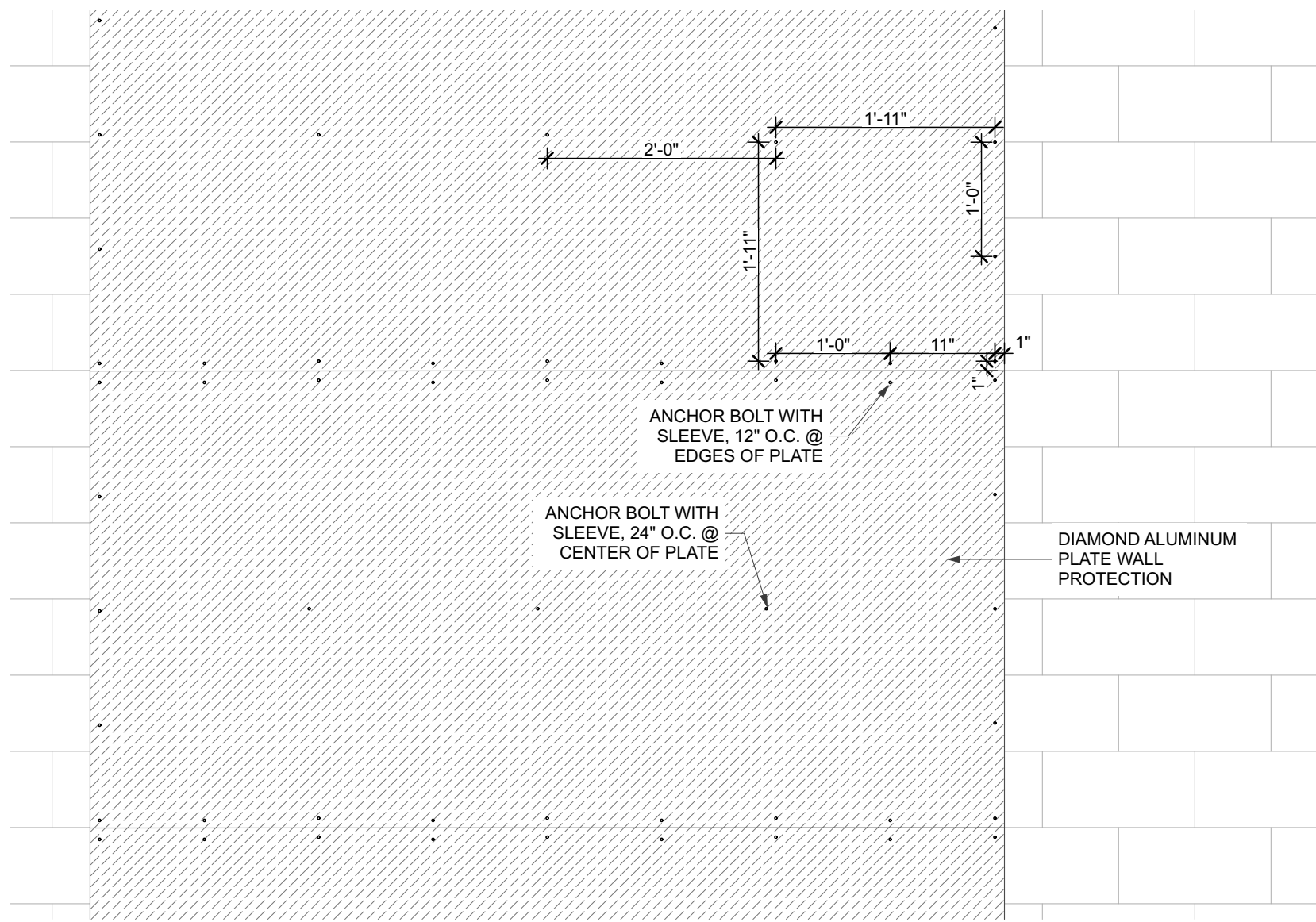
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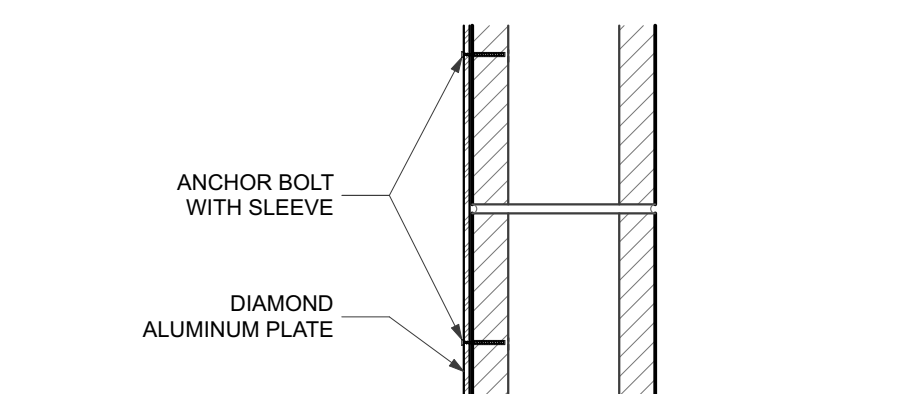
1
A6.9
HOSE HOIST DETAIL
SCALE: 3/4" = 1'-0"



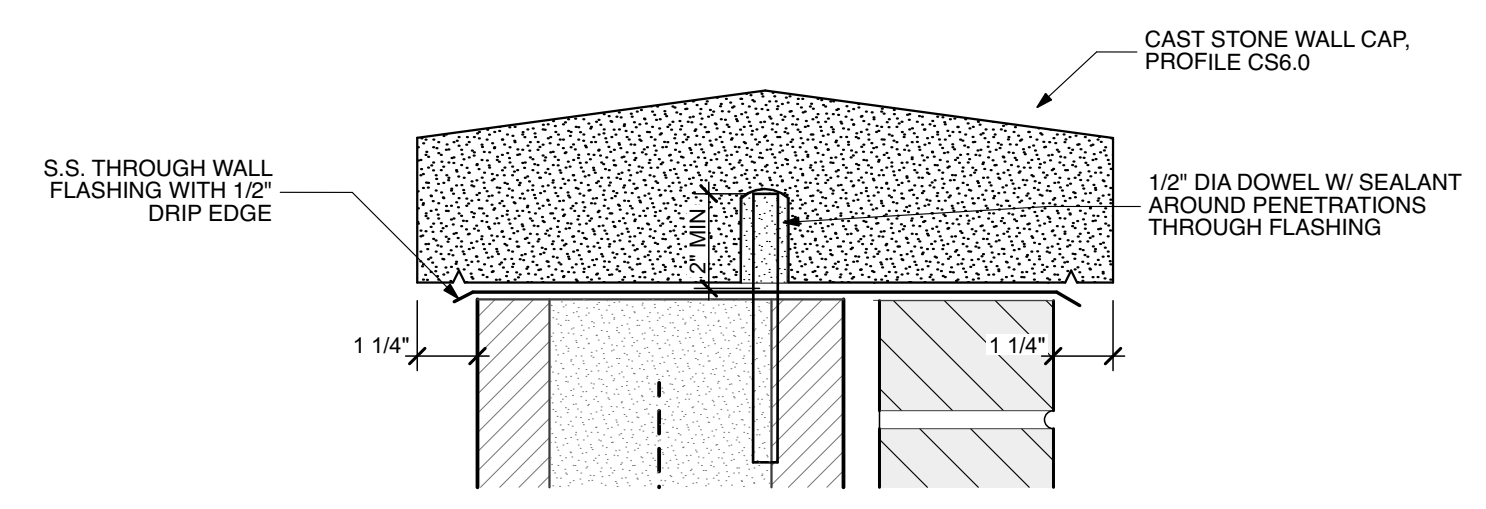
6
A6.9
FIRE EXTINGUISHER CABINET DETAILS
SCALE: 1 1/2" = 1'-0"



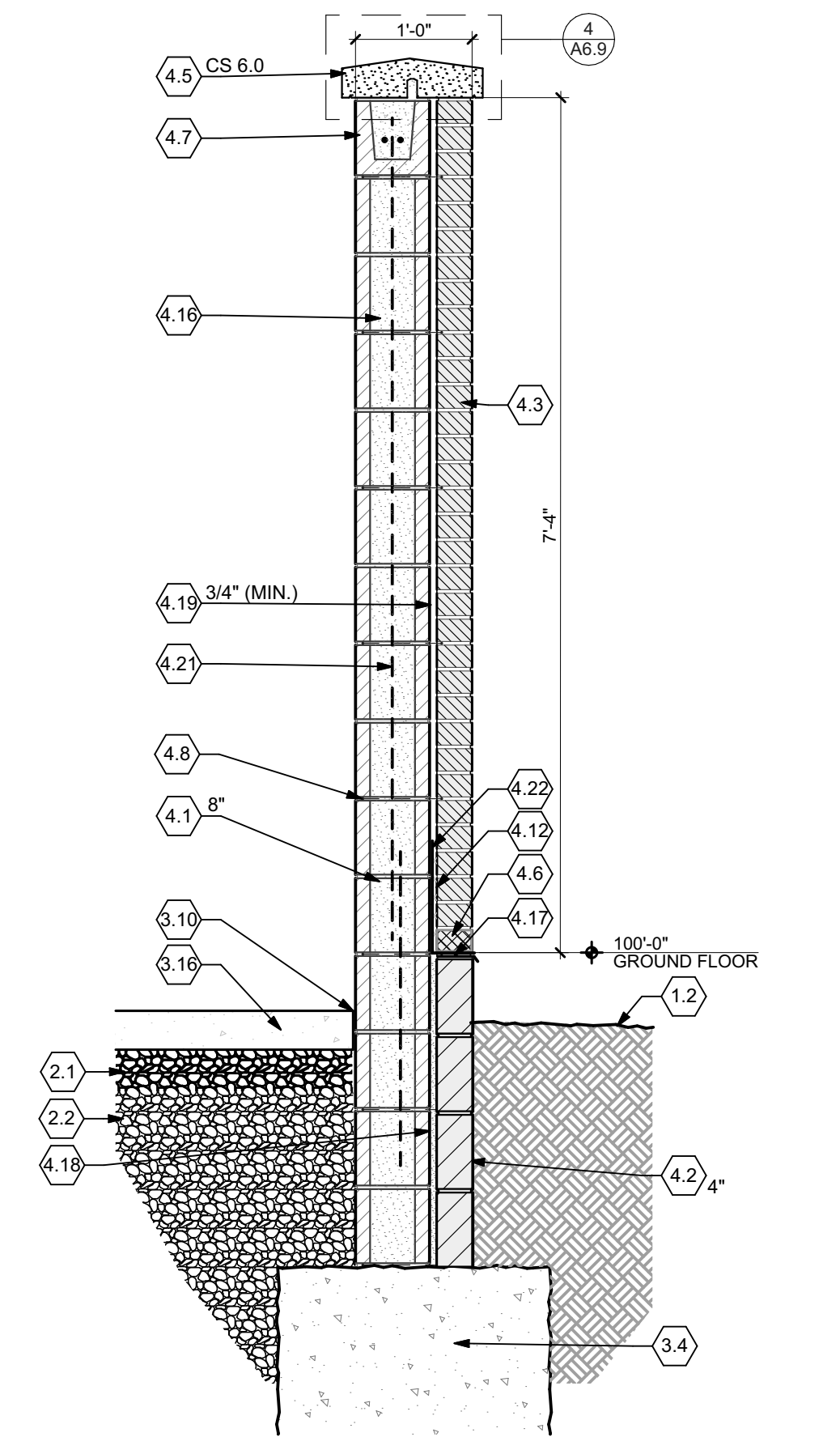
2
A6.9
DIAMOND ALUMINUM PLATE WALL CONNECTION
SCALE: 3/4" = 1'-0"



3
A6.9
DIAMOND PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



4
A6.9
WALL CAP DETAIL
SCALE: 3" = 1'-0"



5
A6.9
WALL SECTION
SCALE: 3/4" = 1'-0"

- SECTION NOTES**
- SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- 1.1 AIR SPACE
 - 1.2 GRADE. REFER TO SITE PLAN
 - 2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
 - 2.2 COMPACTED GRAVEL BACKFILL
 - 3.1 1/4" EXPANSION FILLER.
 - 3.2 2" X 24" CONTINUOUS RIGID PERIMETER INSULATION BOARD.
 - 3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
 - 3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
 - 3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
 - 3.7 4" CONCRETE SLAB AND METAL DECK. REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
 - 3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING. REFER TO STRUCTURAL DRAWINGS.
 - 3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
 - 3.11 REINFORCED CONCRETE SLAB. REFER TO SITE PLAN FOR DETAIL.
 - 3.12 EXTERIOR CONCRETE STOOFF. REFER TO SITE DRAWINGS
 - 3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
 - 3.14 'TURN-DOWN' SLAB. REFER TO STRUCTURAL DRAWINGS.
 - 3.15 CONCRETE FROST STOOFF. REFER TO STRUCTURAL DRAWINGS.
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 - 4.1 CONCRETE MASONRY UNIT (CMU)
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 - 4.5 CAST STONE. REFER TO DETAIL 3/A6.5.
 - 4.6 WEEP VENT @ 32" O.C.
 - 4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.7.1 CONT. 16" DP BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16" O.C. VERTICAL (MAX)
 - 4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
 - 4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
 - 4.11 CONCRETE BRICK
 - 4.12 CAVITY MORTAR PROTECTION
 - 4.13 CUT CMU BLOCK AS REQUIRED.
 - 4.14 METAL THRU WALL FLASHING.
 - 4.15 HORIZONTAL JOINT REINFORCEMENT
 - 4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS. 16" O.C. REFER TO STRUCTURAL FOR REINFORCING
 - 4.17 STAINLESS STEEL DRIP EDGE
 - 4.18 GROUT VOID FULL
 - 4.19 AIRSPACE
 - 4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
 - 4.22 MEMBRANE THRU WALL FLASHING
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 - 4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
 - 4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5
 - 5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
 - 5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
 - 5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
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 - 5.7 METAL HANDRAIL. REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
 - 5.8 STEEL ROOF DECK. 3" REFER TO STRUCTURAL DRAWINGS.
 - 5.9 METAL PAN STAIR/LANDING. REFER TO STAIR DETAILS.
 - 5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
 - 5.10 METAL GUARD RAIL. REFER TO DETAIL 5/A6.7.
 - 5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
 - 5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
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 - 6.2 FRTW 2X10 FASCIA.
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 - 6.4 FRTW PLATE. REFER TO STRUCTURAL
 - 6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
 - 6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
 - 6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL.
 - 6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
 - 6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
 - 6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
 - 6.11 FT WOOD NAILER
 - 6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
 - 6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
 - 6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS
 - 7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 2" @ CFMF WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
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 - 7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
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 - 7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
 - 7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
 - 8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
 - 8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
 - 8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
 - 8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
 - 8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
 - 8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
 - 8.7 ACCESS DOOR. BASIS OF DESIGN: NYSTRUM RGB SERIES HINGED 24"x36" ACCESS DOOR.
 - 9.1 CFMF @ 16" O.C.
 - 9.2 CFMF BRACING @ 48" O.C.
 - 9.3 5/8" ABSURE RESISTANT GYPSUM BOARD, FULL HEIGHT
 - 9.4 CONTINUOUS 3 5/8" CFMF
 - 9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
 - 9.6 5/8" GYPSUM BOARD
 - 9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
 - 9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
 - 9.9 METAL 'J' MOLD
 - 9.10 WALL BASE. SEE FINISH SCHEDULE.
 - 9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
 - 9.12 SUSPENDED GYPSUM CEILING
 - 10.1 LOUVER
 - 10.2 GRILLE. REFER TO MECHANICAL DRAWINGS.
 - 12.1 CASEWORK. REFER TO EQUIPMENT DRAWINGS
 - 12.2 WINDOW SHADES. REFER TO PROJECT MANUAL.
 - 23.1 HVAC EQUIPMENT AND DUCTS. SEE HVAC DRAWINGS
 - 23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.
 - 26.1 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG
8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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REVISIONS	
STORM SHELTER REVIEW	PLAN APPROVAL / BIDDING

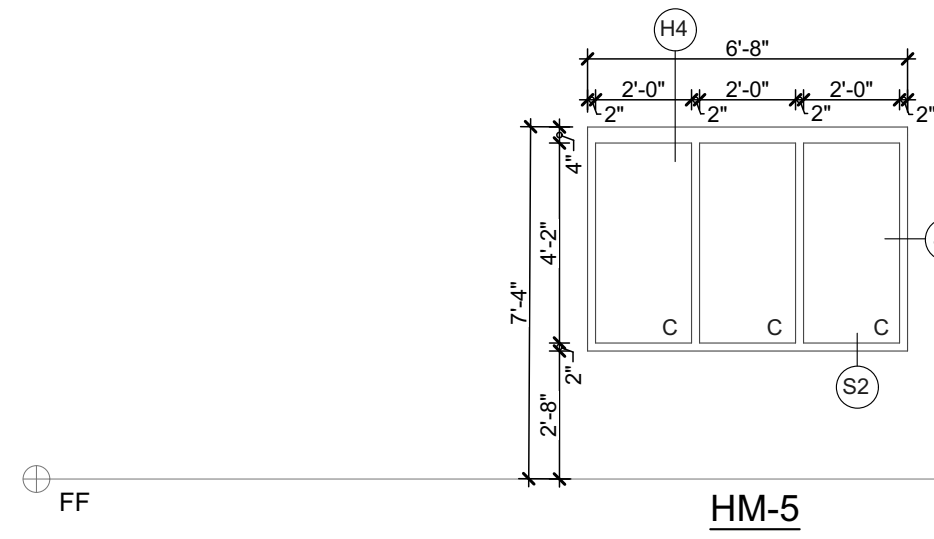
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AF/RS	DF

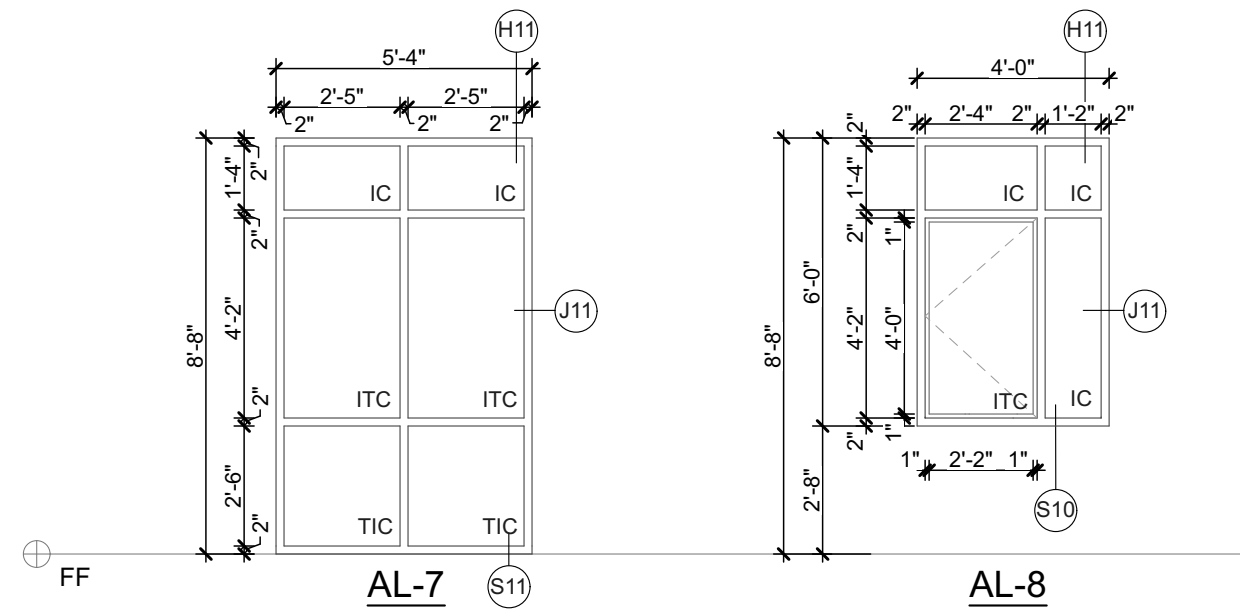
DETAILS

A6.9

PLOT DATE: 12/29/24 @ 10:08 AM LAYOUT: A7.1: SCHEDULES - ROOM AND DOOR SCHEDULE FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service\231103 Fire Station CD

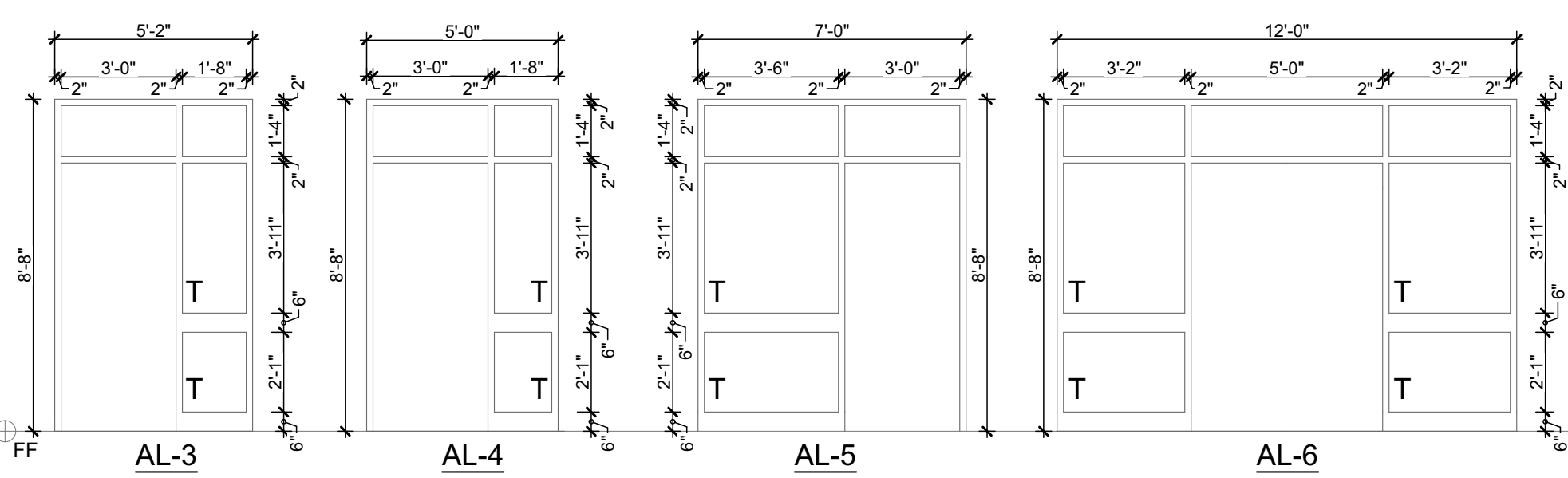


4 BORROWED LIGHT TYPES HOLLOW METAL (U.N.O) 1/4" = 1'-0"

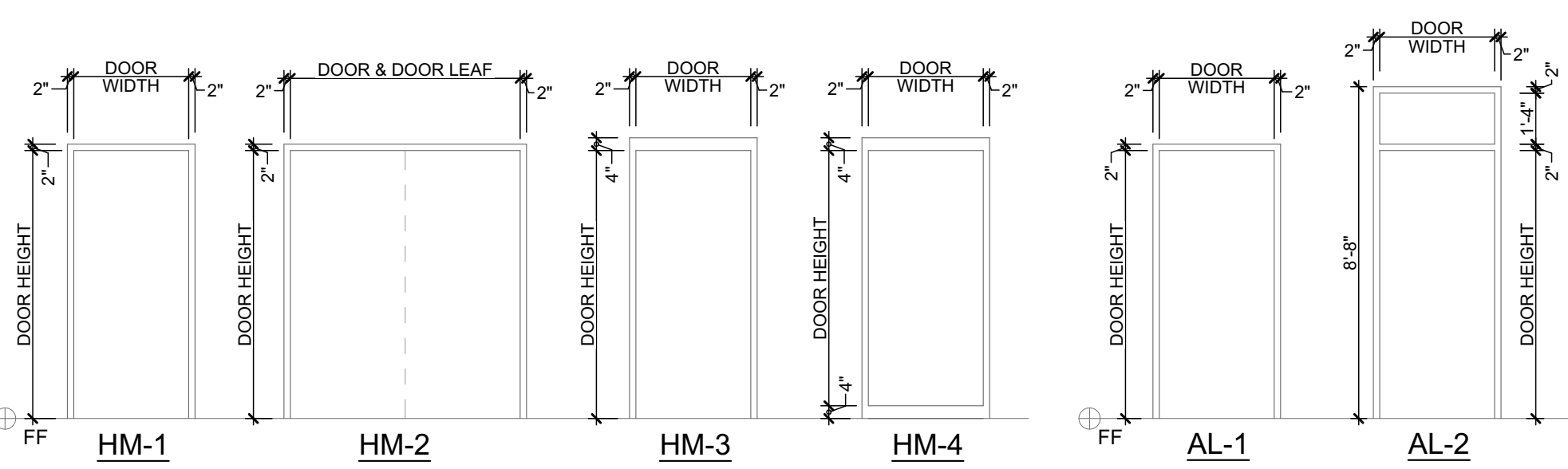


NOTES/SCHEDULE: 1 MANUALLY OPERATED ROLLER SHADE, FULL WIDTH OF OPENING, REFER TO FLOOR PLAN FOR LOCATION AND SPECIFICATIONS.

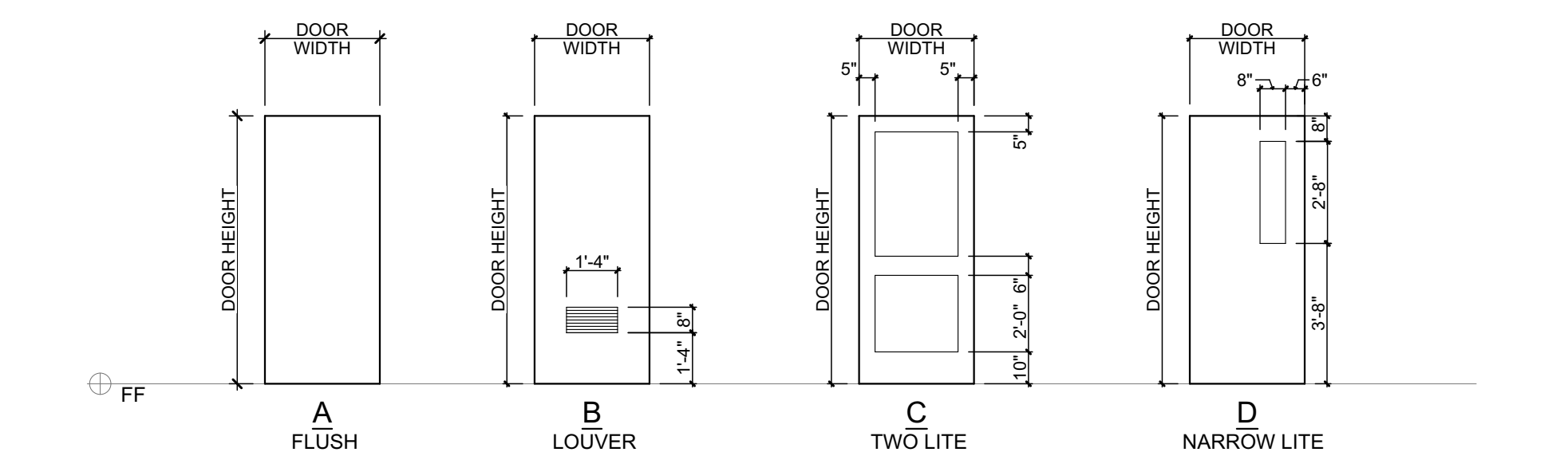
3 WINDOW TYPES CURTAIN WALL AND ALUMINUM (U.N.O) 1/4" = 1'-0"



T - TEMPERED GLAZING REFER TO DOOR SCHEDULE FOR CLEAR/FROSTED AND IF INSULATED GLAZING IS REQUIRED



2 FRAME TYPES HOLLOW METAL AND ALUMINUM (U.N.O) 1/4" = 1'-0"



1 DOOR TYPES WOOD / HOLLOW METAL / ALUMINUM (U.N.O) 1/4" = 1'-0"

ROOM FINISH SCHEDULE

Table with columns: RM KEY, ROOM NAME, RM #, ROOM HT., FLOOR, BASE, WALL FINISH (EAST, NORTH, SOUTH, WEST), CEILING, NOTES. Lists rooms 100 through 204 with their respective finishes and notes.

ROOM FINISH SCHEDULE ABBREVIATIONS

REFER TO SPECIFICATIONS

Table with columns: SYM, DESCRIPTION, SPEC. Lists abbreviations for floors, bases, walls, and ceilings.

PAINT COLORS 1 SHERWIN WILLIAMS EXTRA WHITE SW 7006 2 SHERWIN WILLIAMS REFLECTION SW 7661 3 SHERWIN WILLIAMS STEELY GRAY SW 7664 4 SHERWIN WILLIAMS SLATE TILE SW 7624 5 SHERWIN WILLIAMS RED BAY SW 6321

ROOM FINISH SCHEDULE NOTES:

- 1. PAINT NOTED WALL AN ACCENT PAINT COLOR, REFER TO 1A&1 FOR ACCENT WALLS LOCATIONS. WALL TILE TO BE INSTALLED TO 5'-0" A.F.F. (TYPICAL FOR ALL WALLS), PAINT REMAINING WALL ABOVE TO CEILING, WALL TILE TO BE INSTALLED FULL WALL HEIGHT BEHIND LAVATORY. 2. WALL TILE TO BE INSTALLED TO 5'-0" A.F.F. (TYPICAL FOR ALL WALLS), PAINT REMAINING WALL ABOVE TO CEILING, WALL EXPOSED STRUCTURE TO BE PAINTED WHITE. 3. FRP OVER GYP. BD. HEIGHT TO EXTEND TO THE TOP OF DOOR FRAME. 4. MIRRORS INSTALLED TO 7'-4" A.F.F. ON EAST AND WEST WALLS, REFER TO 1A&1 FOR LOCATION AND LENGTH. ADD ALTERNATE: RESINIOUS FLOOR FINISH AND BASE. 5. ALL EXPOSED DUCTWORK TO BE PAINTED PAINT COLOR 5.

GENERAL NOTES:

- A WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHOULD DO SO UNDER THE CENTERLINE OF THE DOOR, U.N.O. B ALL INTERIOR MASONRY UNITS ARE FINISH MATERIALS AND SHALL BE KEPT CLEAN DURING CONSTRUCTION FROM DUST, MUD, DIRT AND CONCRETE CORE DRILLING SLURRY, MASK OR SCREEN AS NECESSARY TO MAINTAIN CLEANLINESS. MATERIALS ARE CONSIDERED EXPOSED IF CEILING DOES NOT FULLY EXTEND OR ATTACH TO WALLS. C

DOOR AND FRAME SCHEDULE

Table with columns: RM TAG, DOOR (W, HT, MATL, TYPE, GLZ), FRAME (MATL, EL, GLZ, DEPTH), HEAD, JAMB, SILL, Fire Rating, Hard. Set, Remarks. Lists door and frame details for rooms 100 through 203.

ABBREVIATIONS

PR PAIR OF DOORS OHD OVERHEAD DOOR

MATERIALS

AL ALUMINUM HM HOLLOW METAL WD WOOD

GLAZING

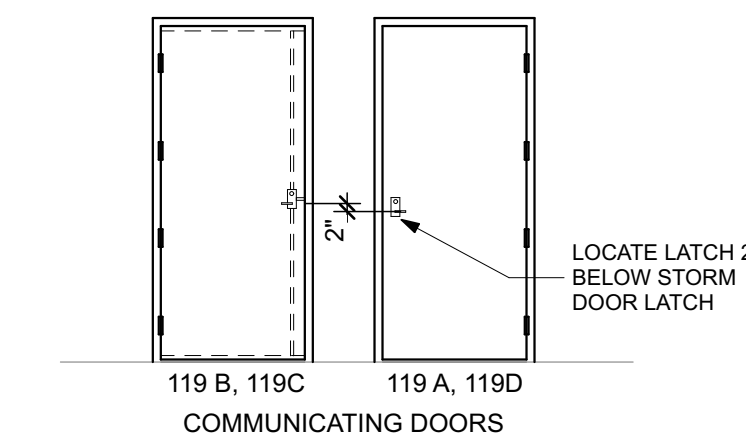
FR FIRE-PROTECTION-RATED GLAZING OF 20 MINUTES ITC INSULATED TEMPERED CLEAR TFC TEMPERED CLEAR ITF INSULATED TEMPERED FROSTED IC CLEAR C CLEAR IF INSULATED FROSTED

DOOR SCHEDULE NOTES:

- 1. PROVIDE SMOKE SEAL IN DOOR OPENINGS OF ALL CONSTRUCTION RESISTING THE PASSAGE OF SMOKE AND FIRE RATED WALLS. 2. PROVIDE SOUND SEALS AT HEAD / JAMB. 3. PROVIDE MANUAL OPERATED WINDOW ROLLER SHADES - FULL WIDTH OF OPENING, REFER TO SPECIFICATIONS. 4. STORM SHELTER DOOR, DOOR AND FRAME SYSTEM TO MEET ICC 500-2014 REQUIREMENTS FOR TORNADO SHELTER. 5. SINGLE COMMUNICATING DOOR FRAME. 6. DOOR TO BE POST-INSTALLED, PRE-CON MEETING REQUIRED BEFORE CONSTRUCTION OF THE ROUGH-OPENING. 7. THUMB PRINT ACCESS CONTROL, BY OTHERS, PROVIDE ROUGH IN, TO AVOID INTERFERENCE OF LATCHES IN COMMUNICATING DOOR FRAME. LOCATE CENTERLINE OF LATCH 2" BELOW CENTERLINE OF LATCH ON STORM DOOR. 8. MOUNT DOOR HOLDER 80" A.F.F. MOUNT STRIKE TO WALL AND BODY TO DOOR.

GENERAL NOTE:

REFER TO SPECIFICATIONS FOR DOOR HARDWARE



5 LATCH DETAIL SCALE: 1/4" = 1'-0"

Company logo and contact information for Freytag & Associates Inc., Architects Engineers. Includes address: 226 N. Miami Ave., PO. Box 220, Sidney, Ohio 45365.

Project title: NEW CONSTRUCTION OF FIRE STATION 2 CITY OF SIDNEY. Location: 2324 CAMPBELL ROAD SIDNEY, OH 45365.

Professional seal for Daniel J. Freytag, Registered Architect, State of Ohio, License #8533, Expiration Date: 12/31/2025.

Daniel J. Freytag, License #8533 Expiration Date: 12/31/2025

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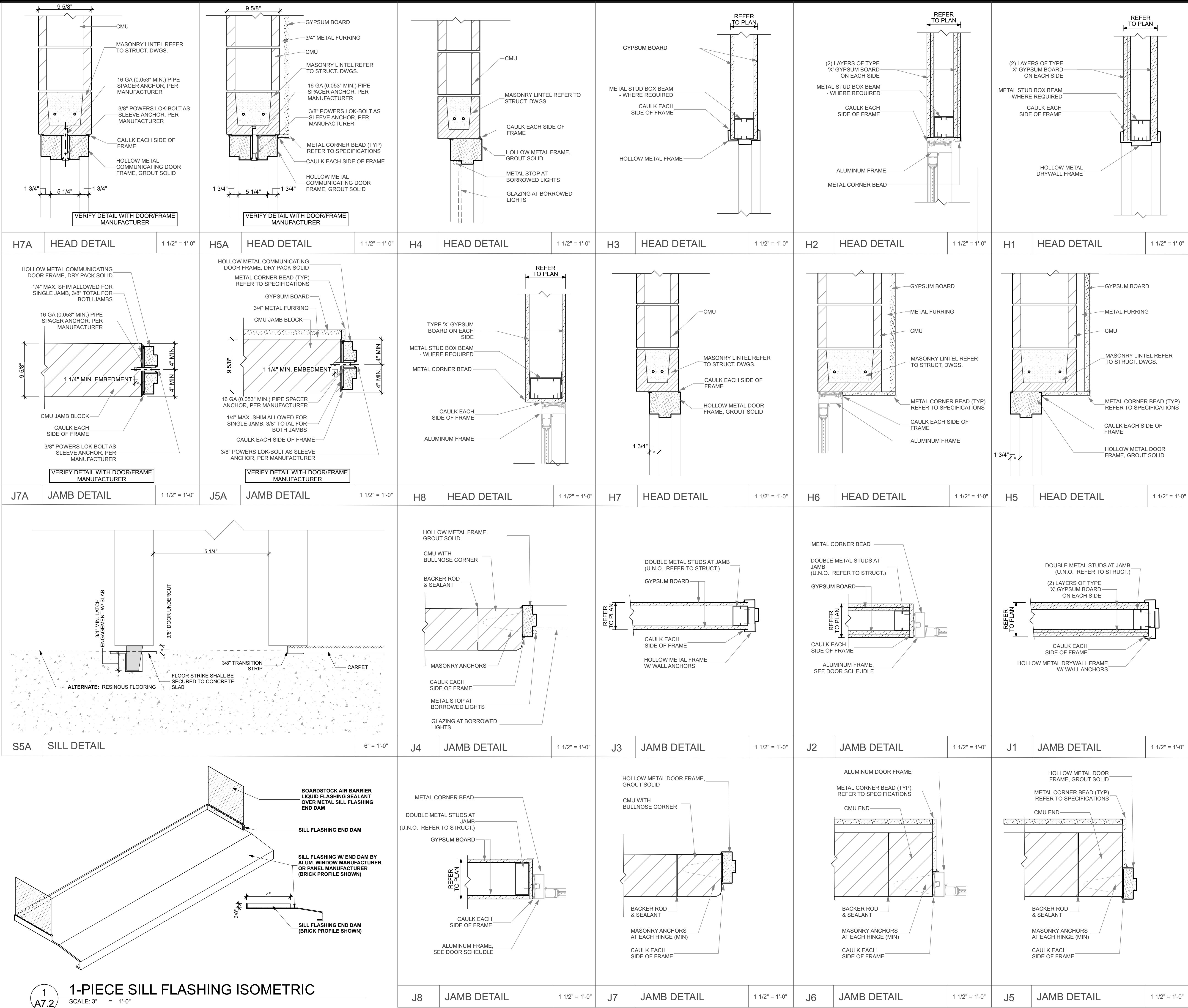
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Table with columns: COMM. NUMBER, DATE, DRAWN BY, CHECKED BY. Shows revision 2207.02 dated 11/22/24 drawn by AF/RS and checked by DF.

ROOM AND DOOR SCHEDULE

A7.1

PLOT DATE: 12/29/24 @ 10:08 AM LAYOUT: A7.2.SCHEDULES - HEAD, JAMB AND SILL DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service\231103 Fire Station CD



1
A7.2 **1-PIECE SILL FLASHING ISOMETRIC**
SCALE: 3\"/>

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STATE OF OHIO
REGISTERED ARCHITECT

DANIEL J. FREYTAG
8533

Daniel J. Freytag

Daniel J. Freytag, License #8533
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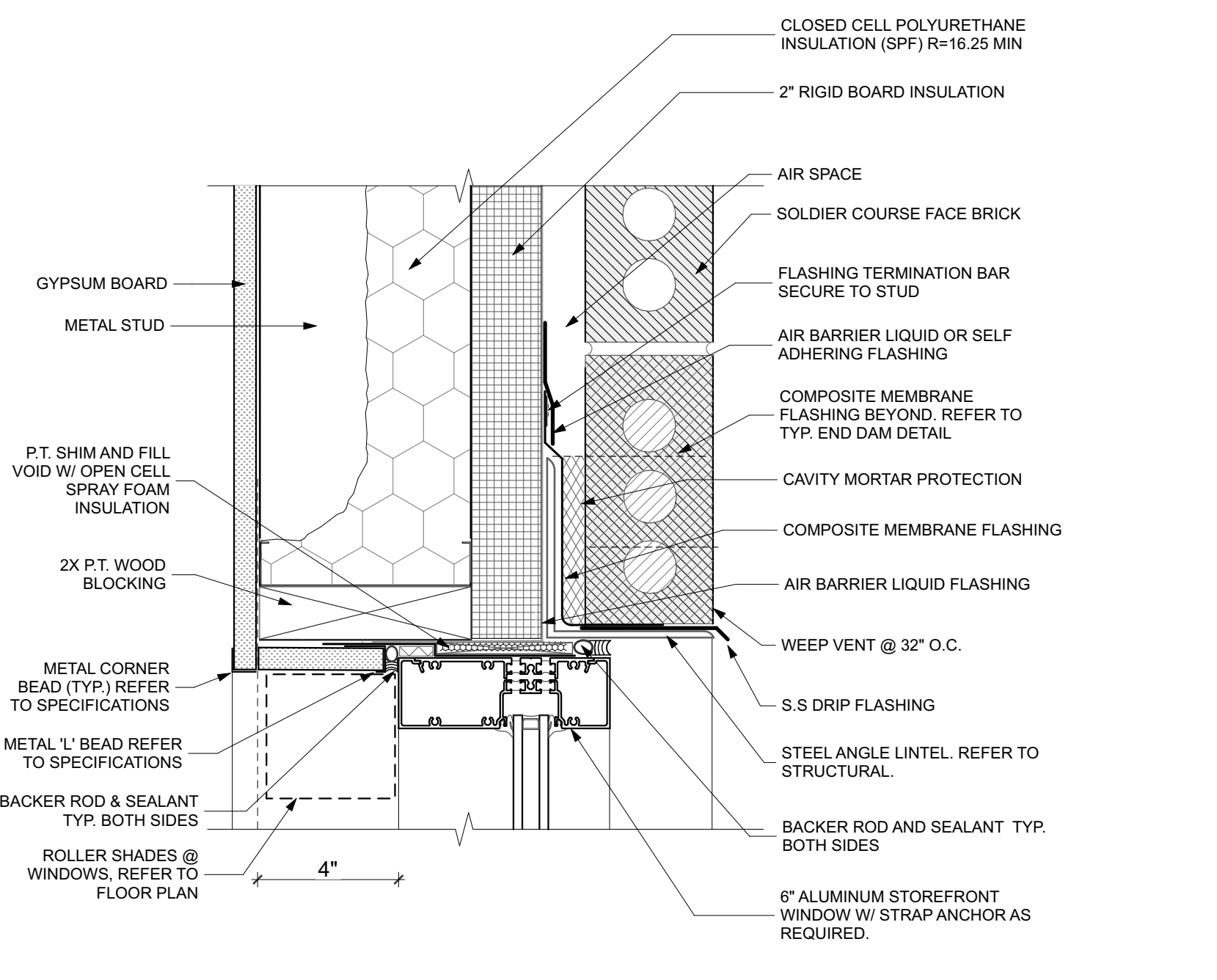
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COMM. NUMBER	DATE
2207.02	11/22/24
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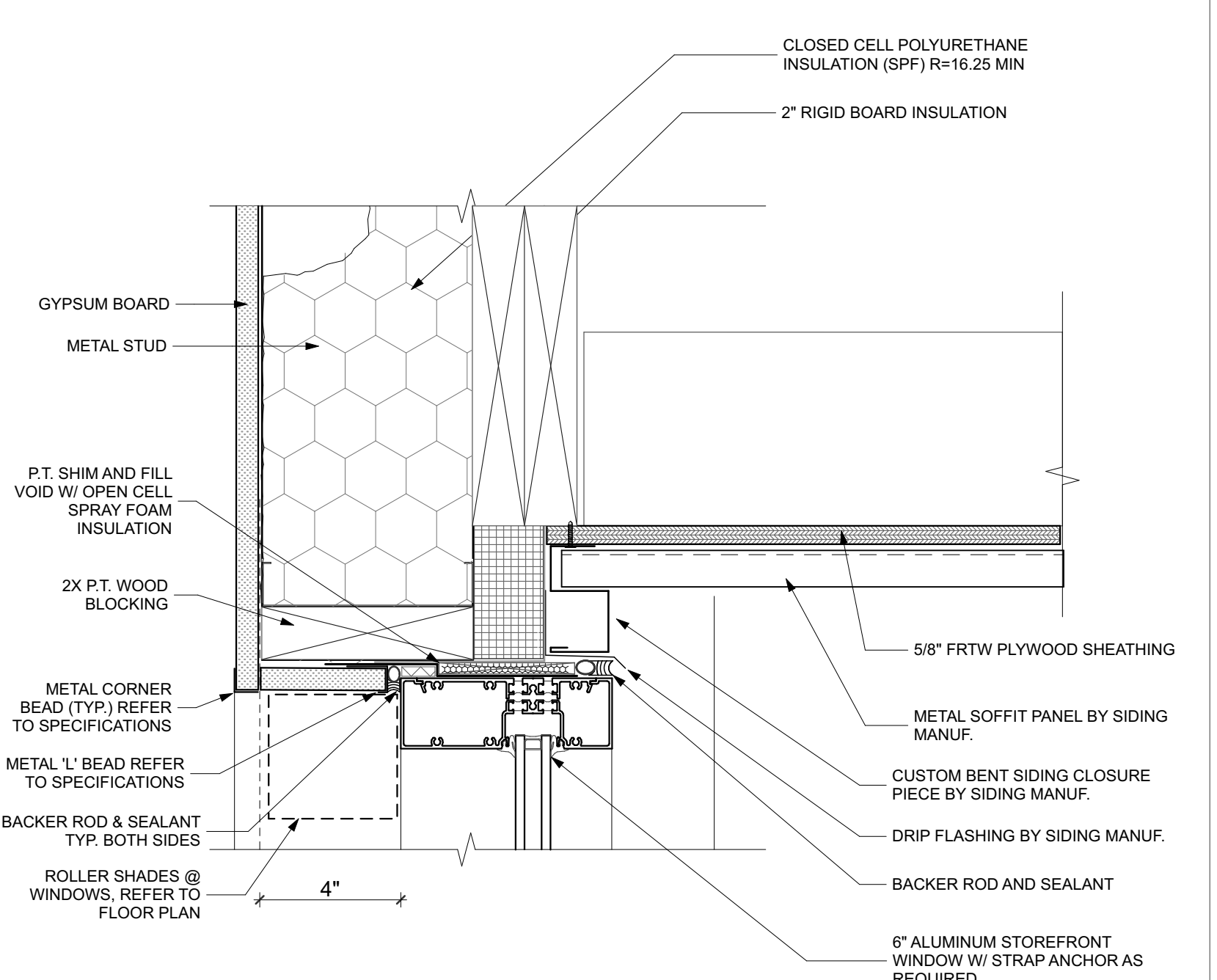
HEAD JAMB AND SILL DETAILS

A7.2

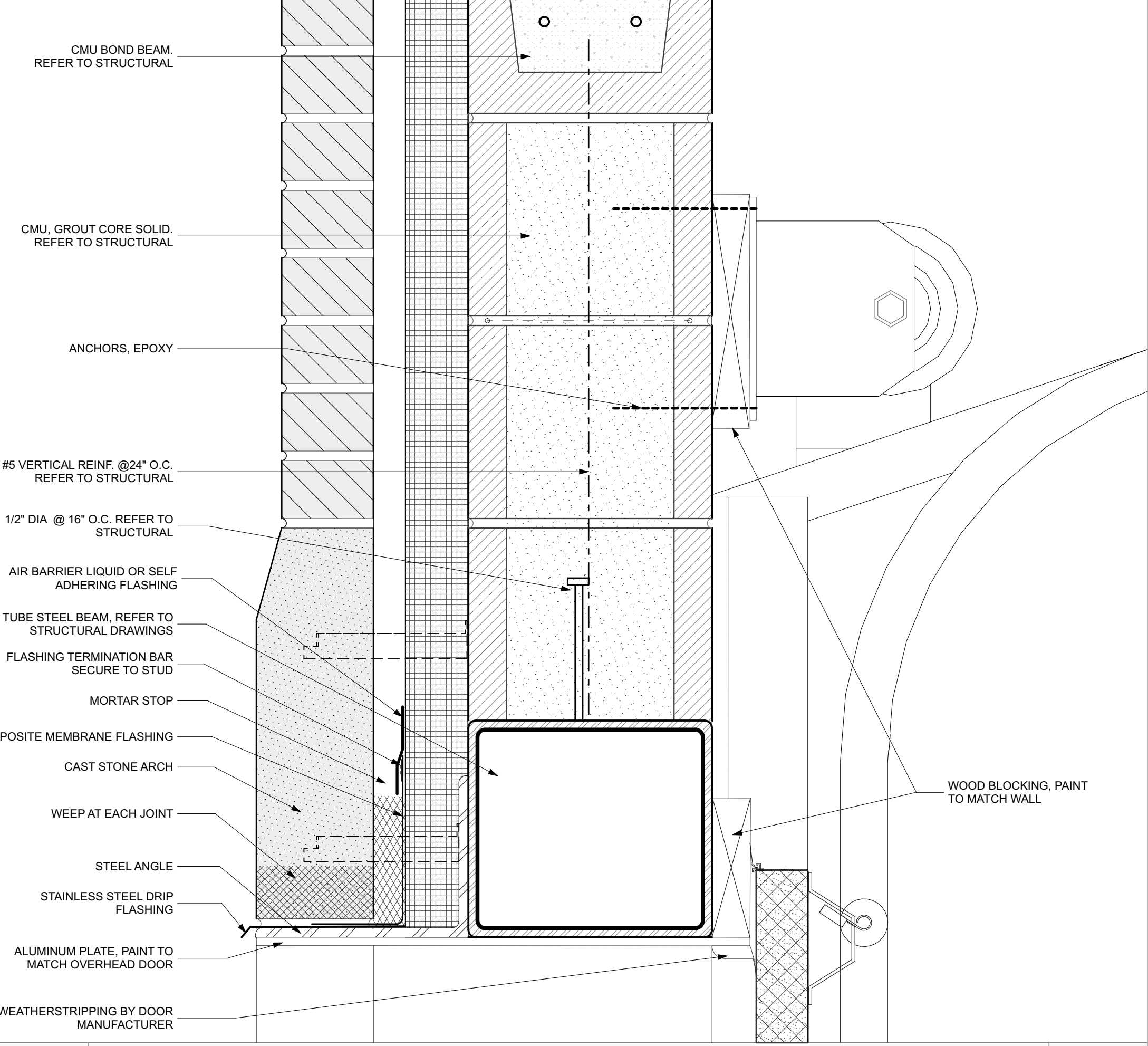
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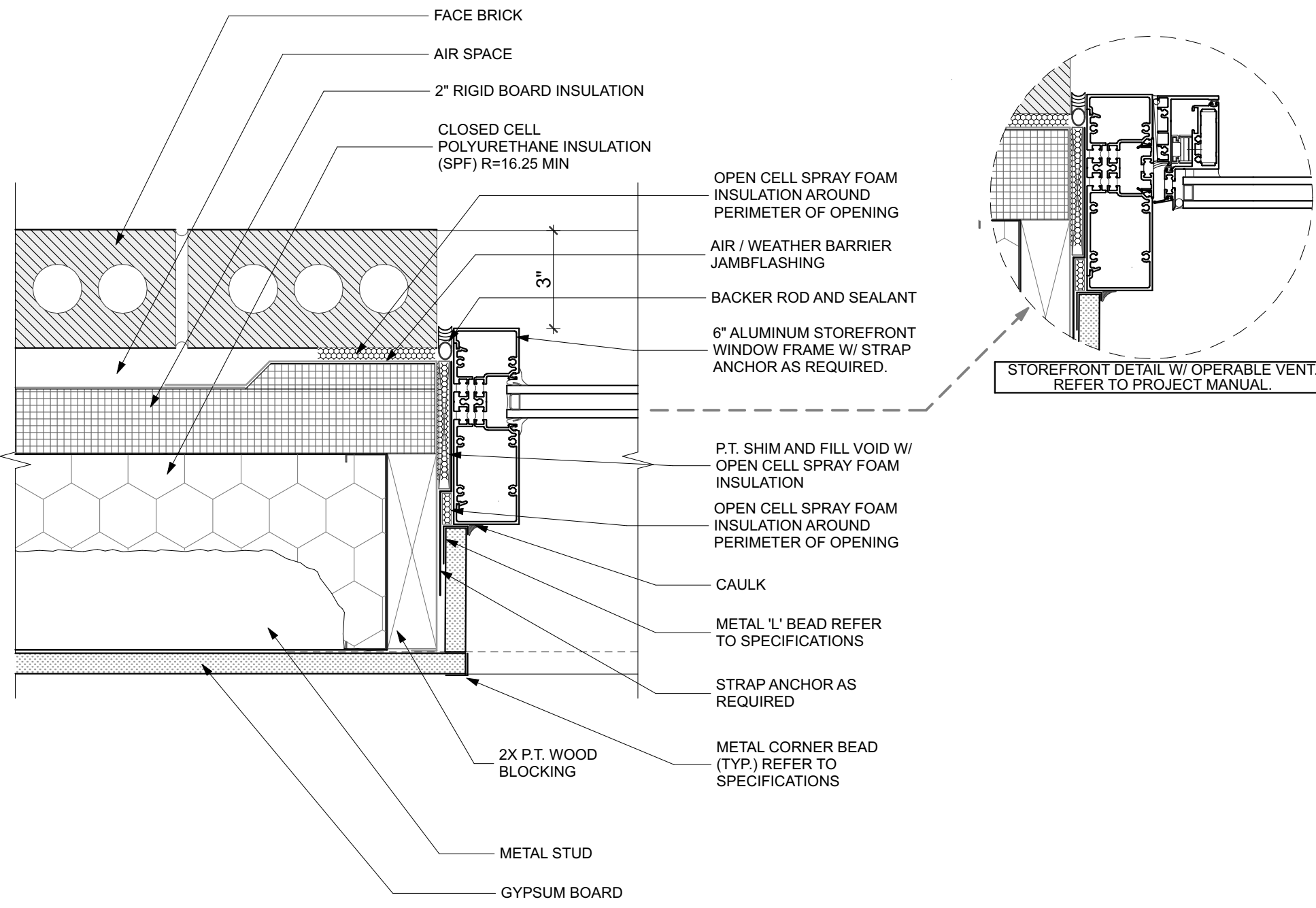
H11 HEAD DETAIL 3" = 1'-0"



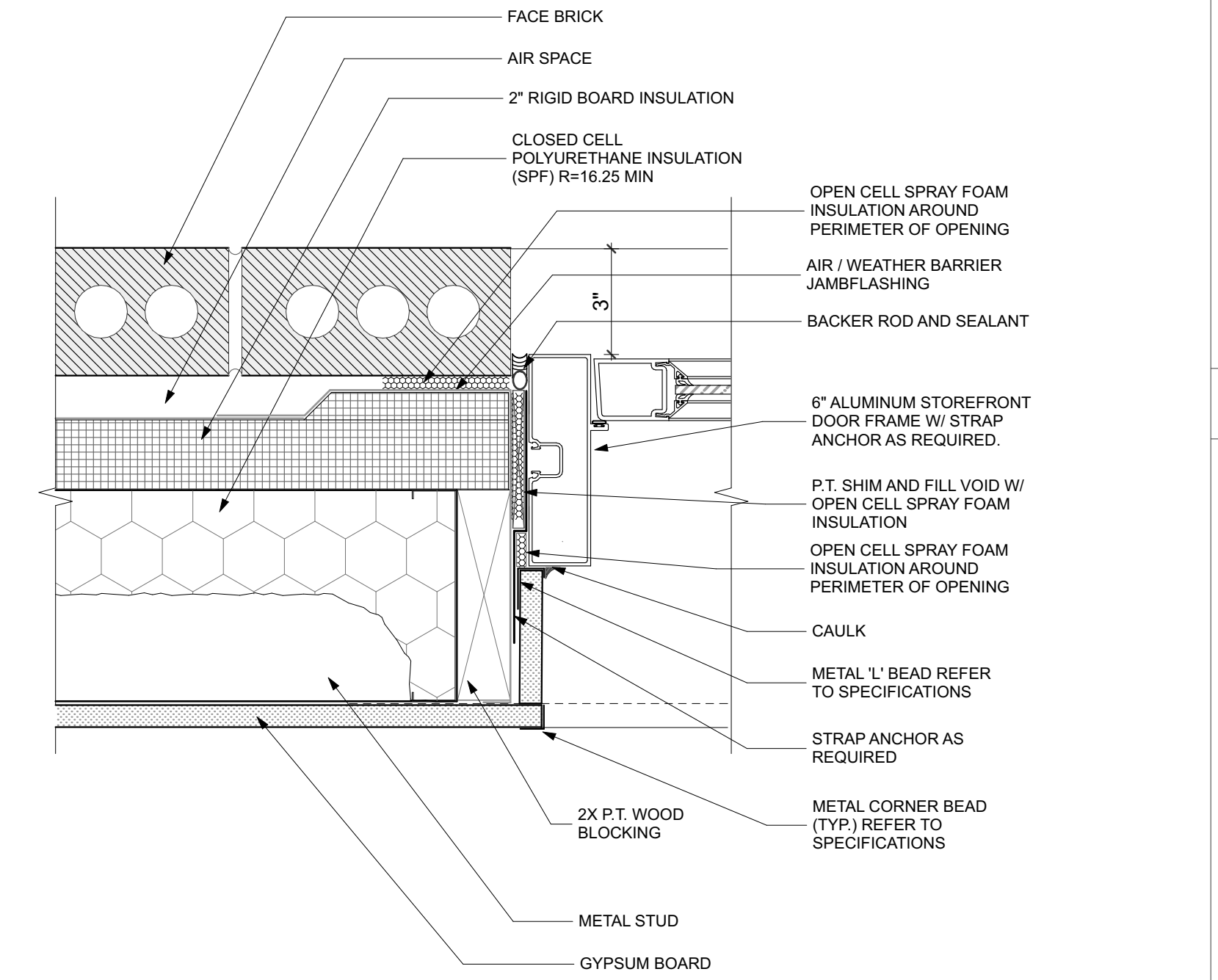
H10 HEAD DETAIL 3" = 1'-0"



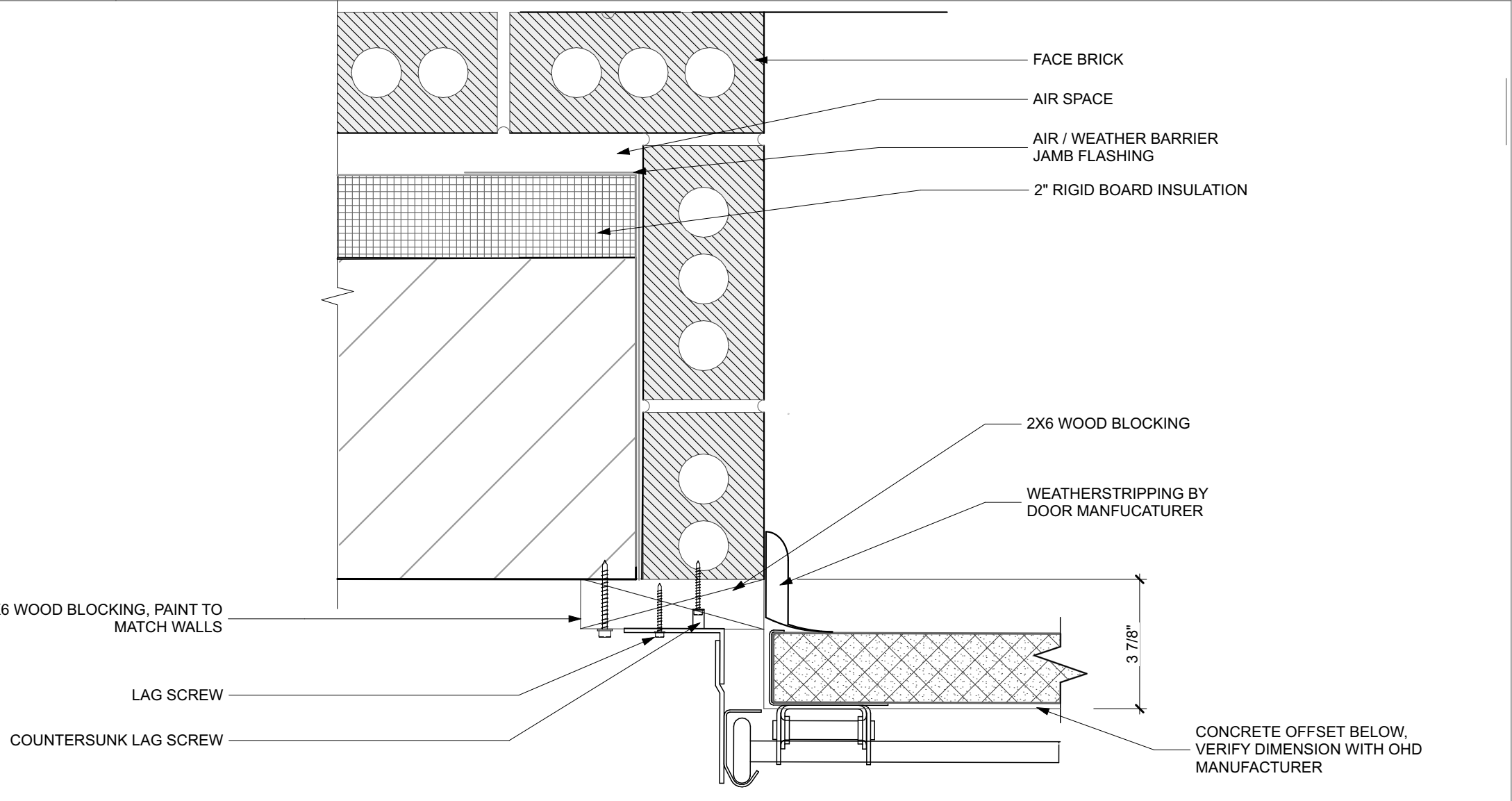
H9 HEAD DETAIL 3" = 1'-0"



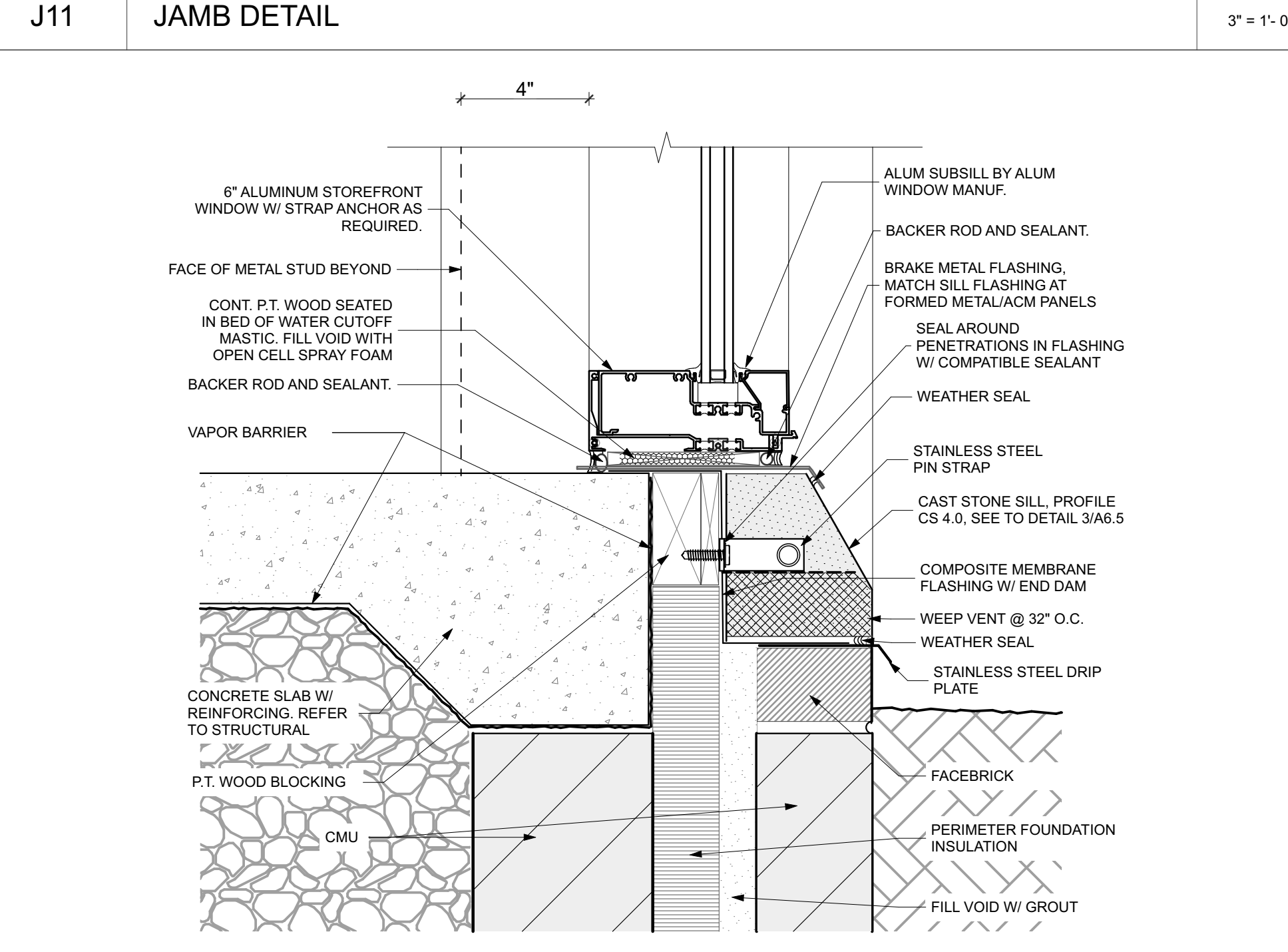
J11 JAMB DETAIL 3" = 1'-0"



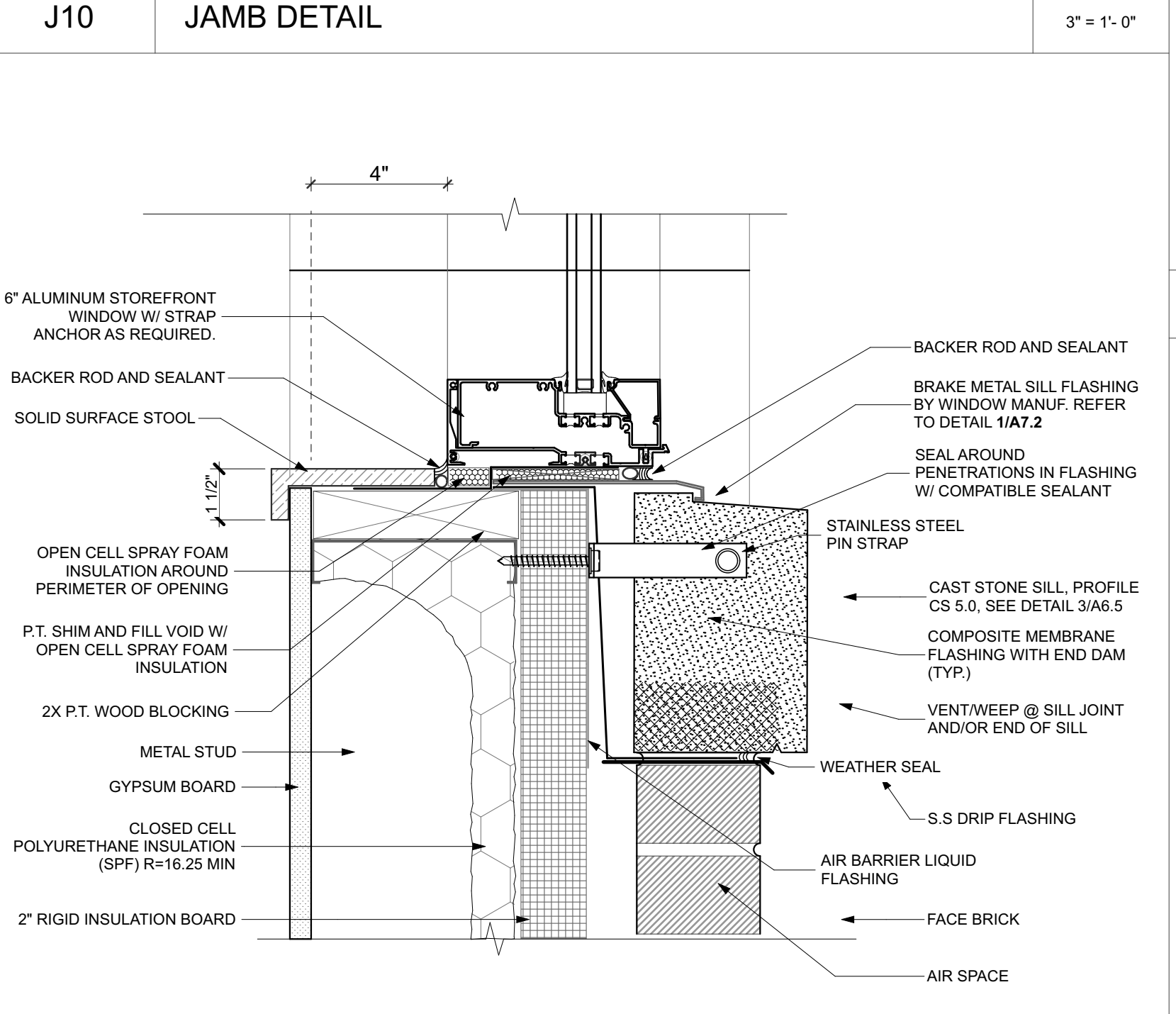
J10 JAMB DETAIL 3" = 1'-0"



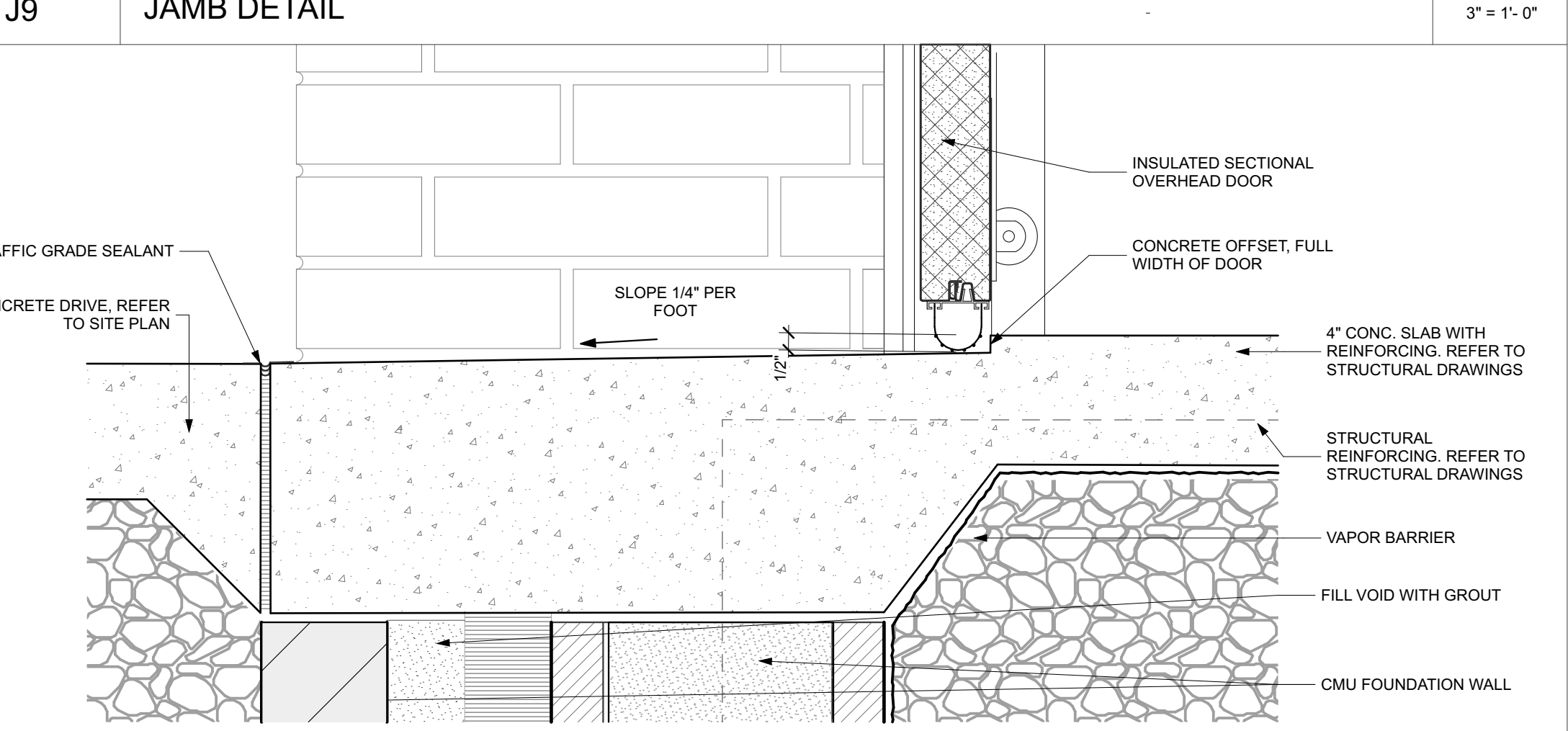
J9 JAMB DETAIL 3" = 1'-0"



S11 SILL DETAIL 3" = 1'-0"



S10 SILL DETAIL 3" = 1'-0"



S9 SILL DETAIL 3" = 1'-0"

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NEW CONSTRUCTION OF
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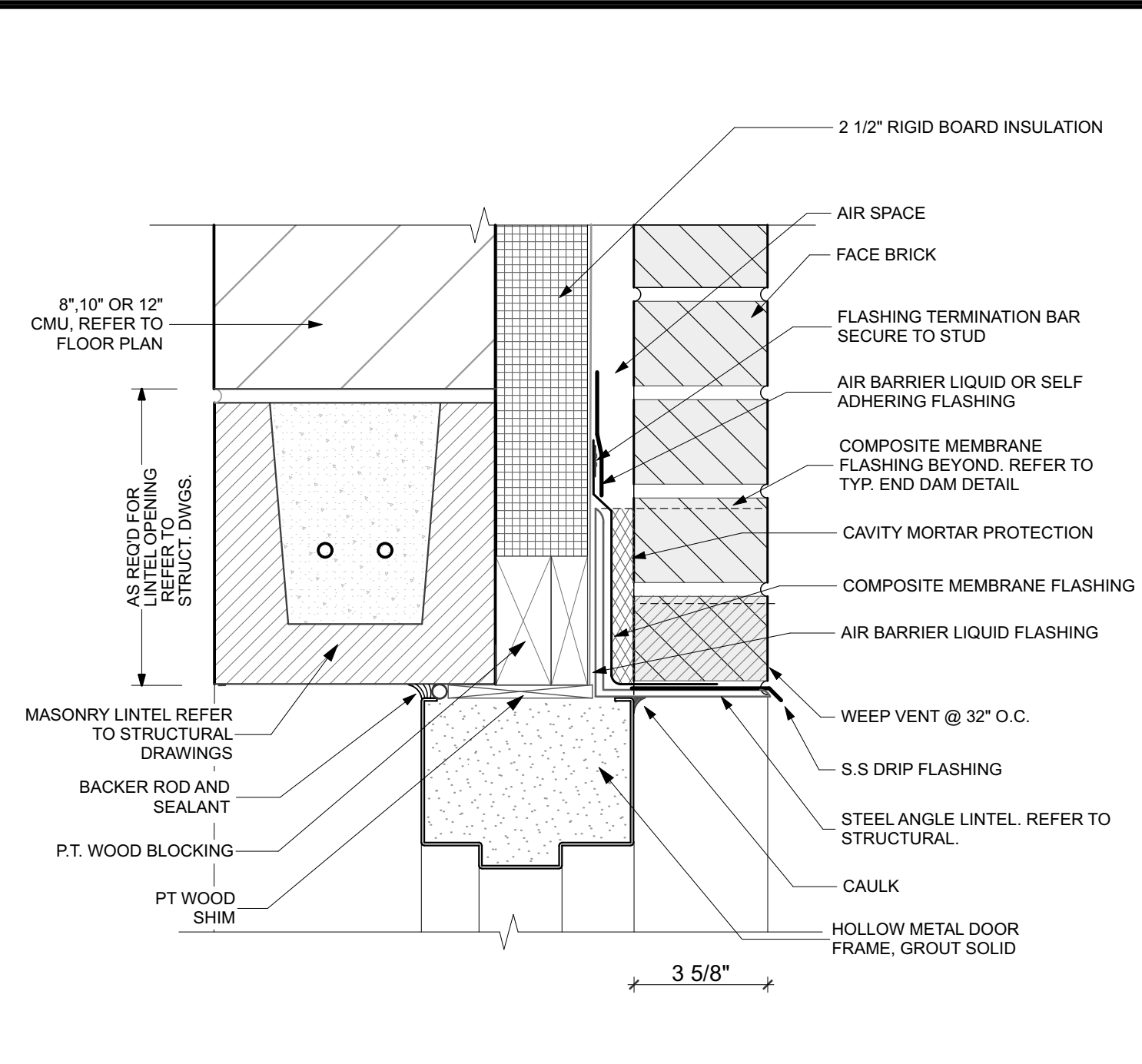
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COMM. NUMBER	DATE
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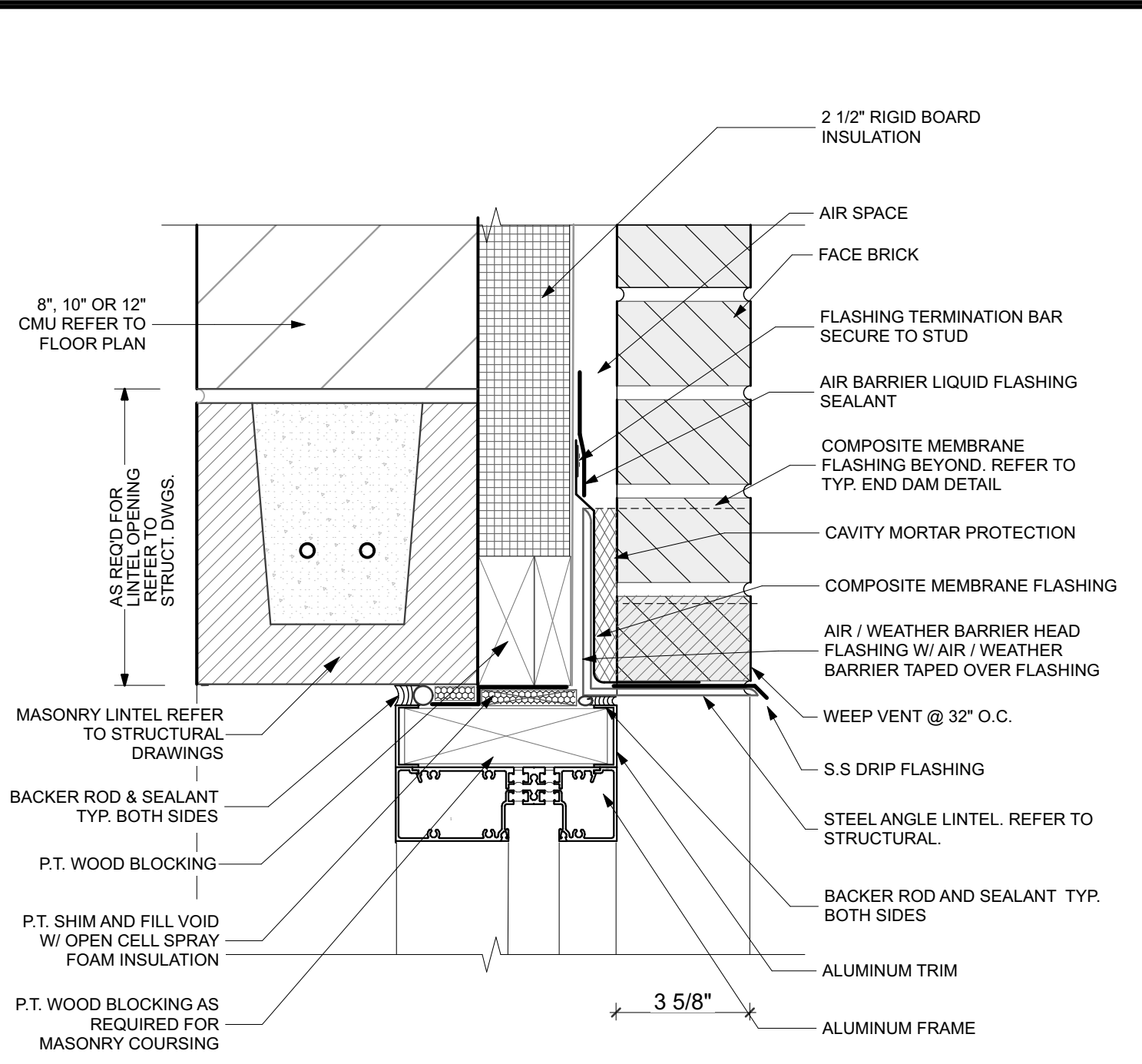
HEAD JAMB AND SILL DETAILS

A7.3

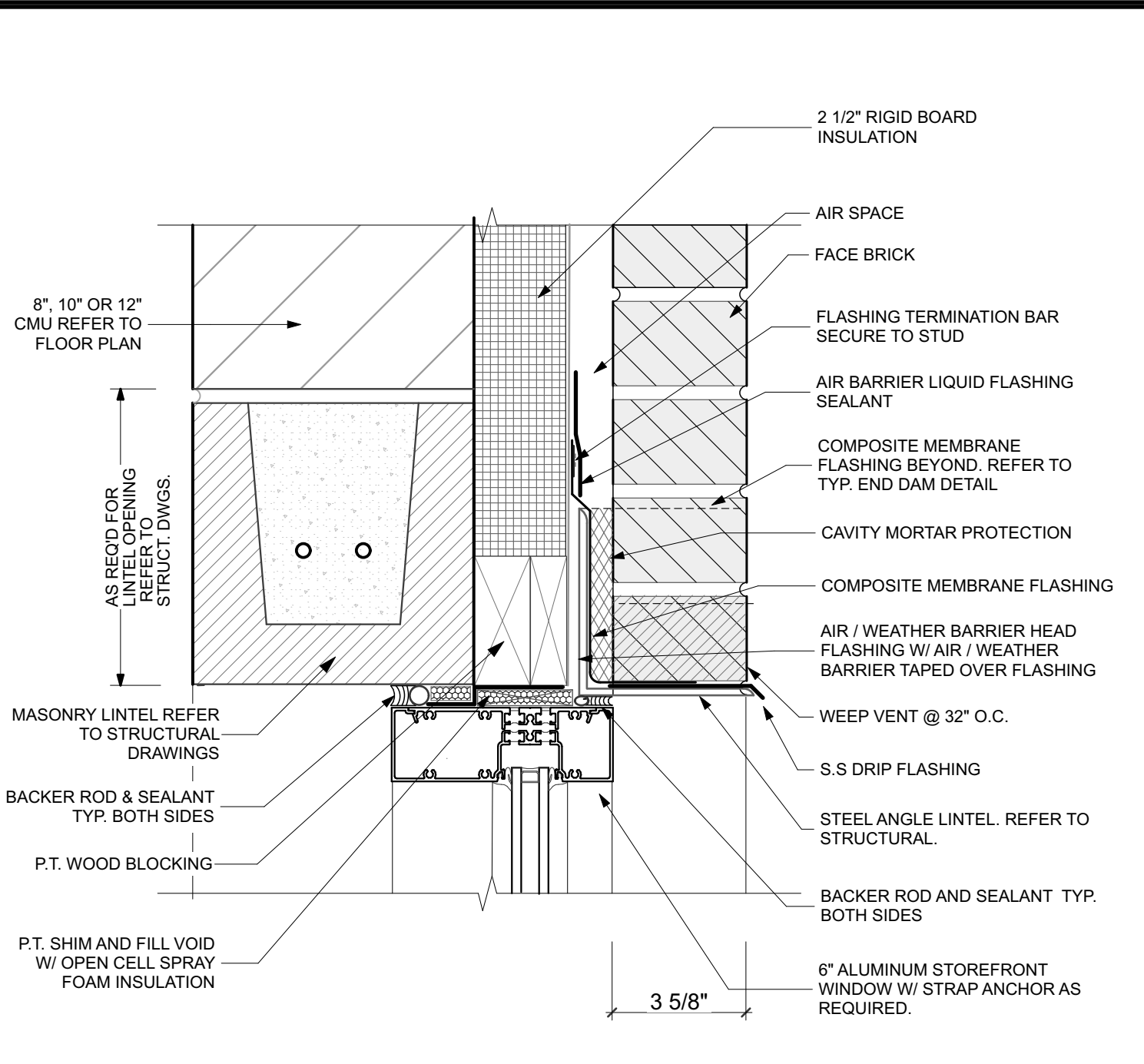
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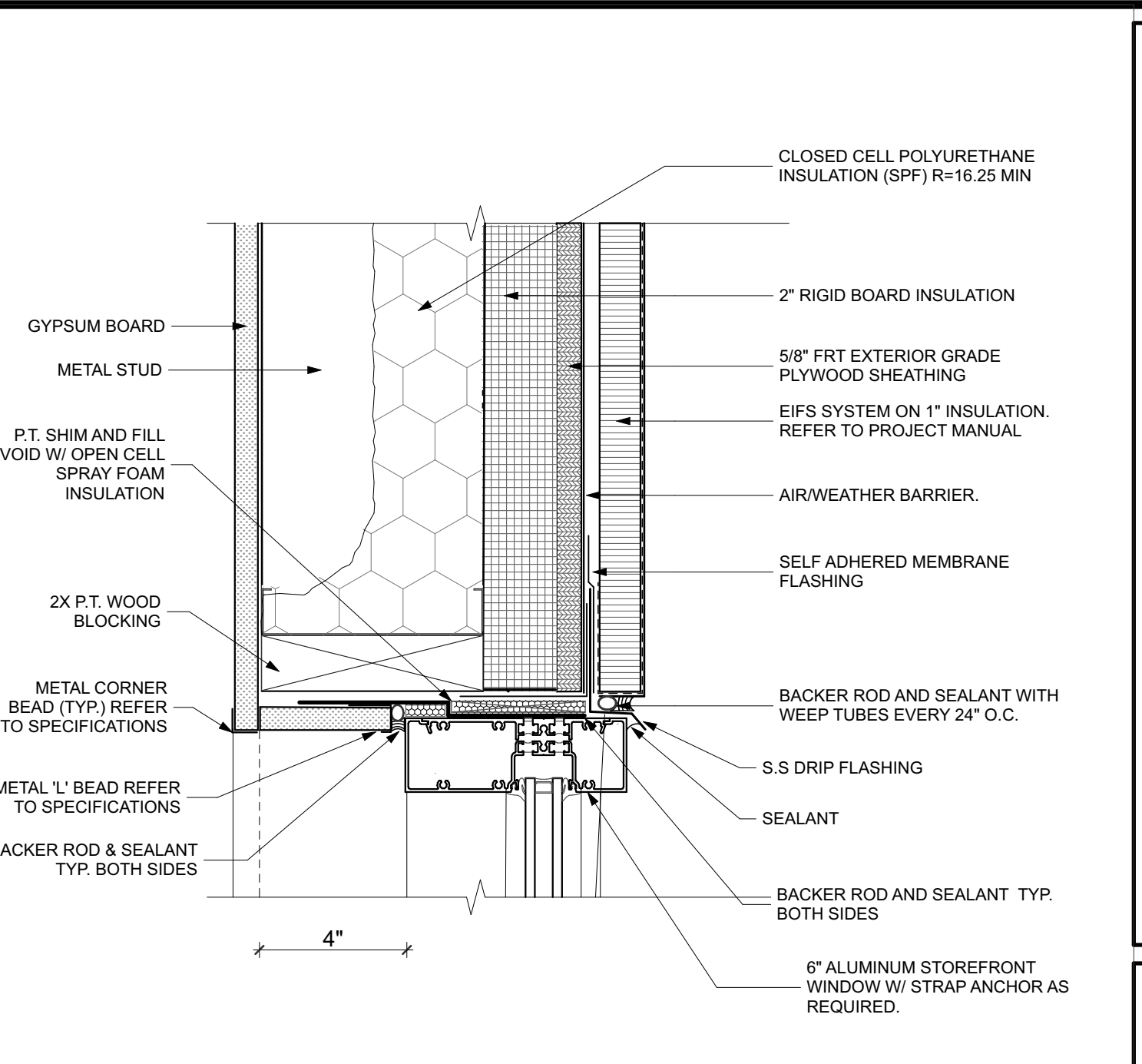
H15 HEAD DETAIL 3" = 1'-0"



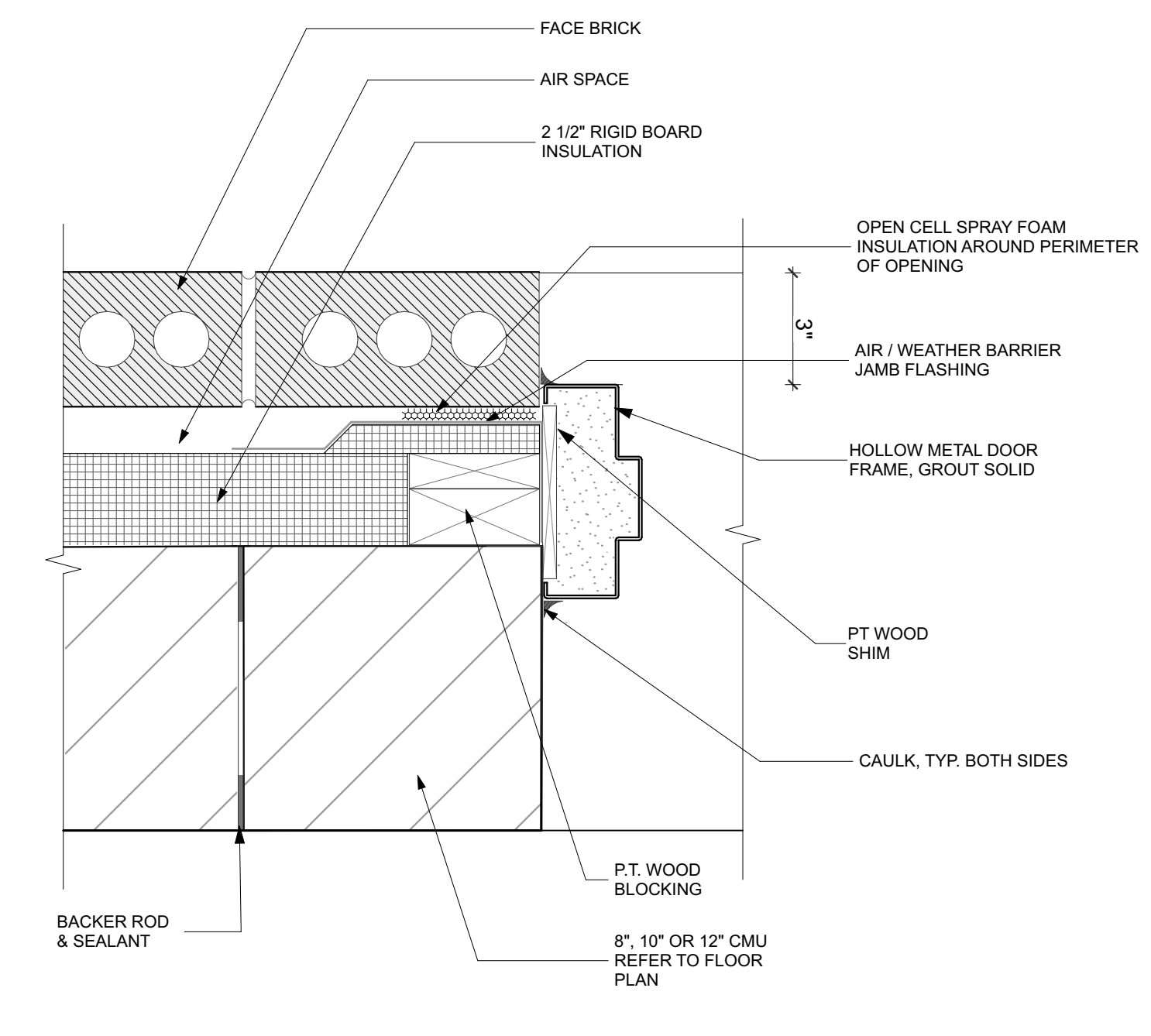
H14 HEAD DETAIL 3" = 1'-0"



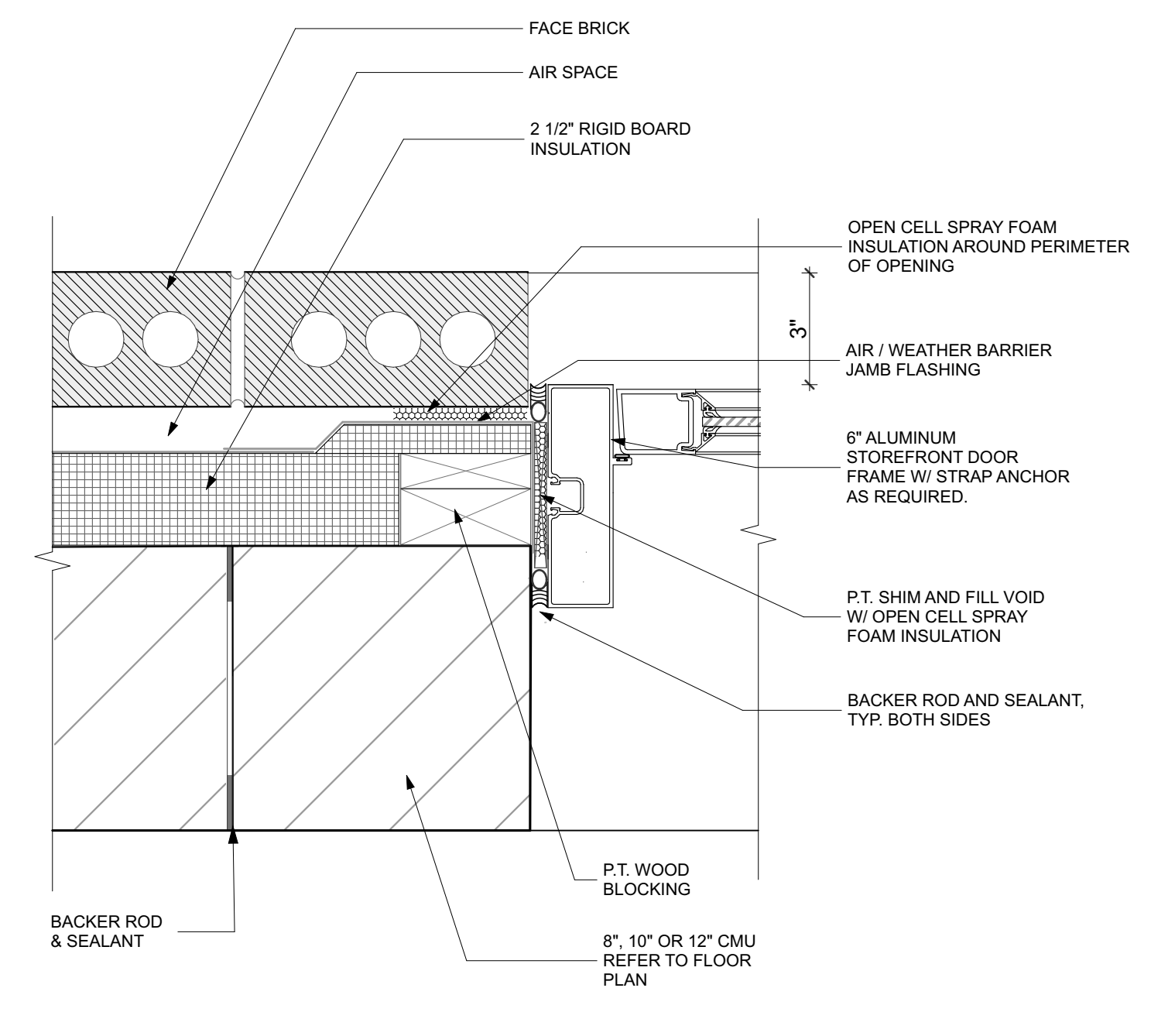
H13 HEAD DETAIL 3" = 1'-0"



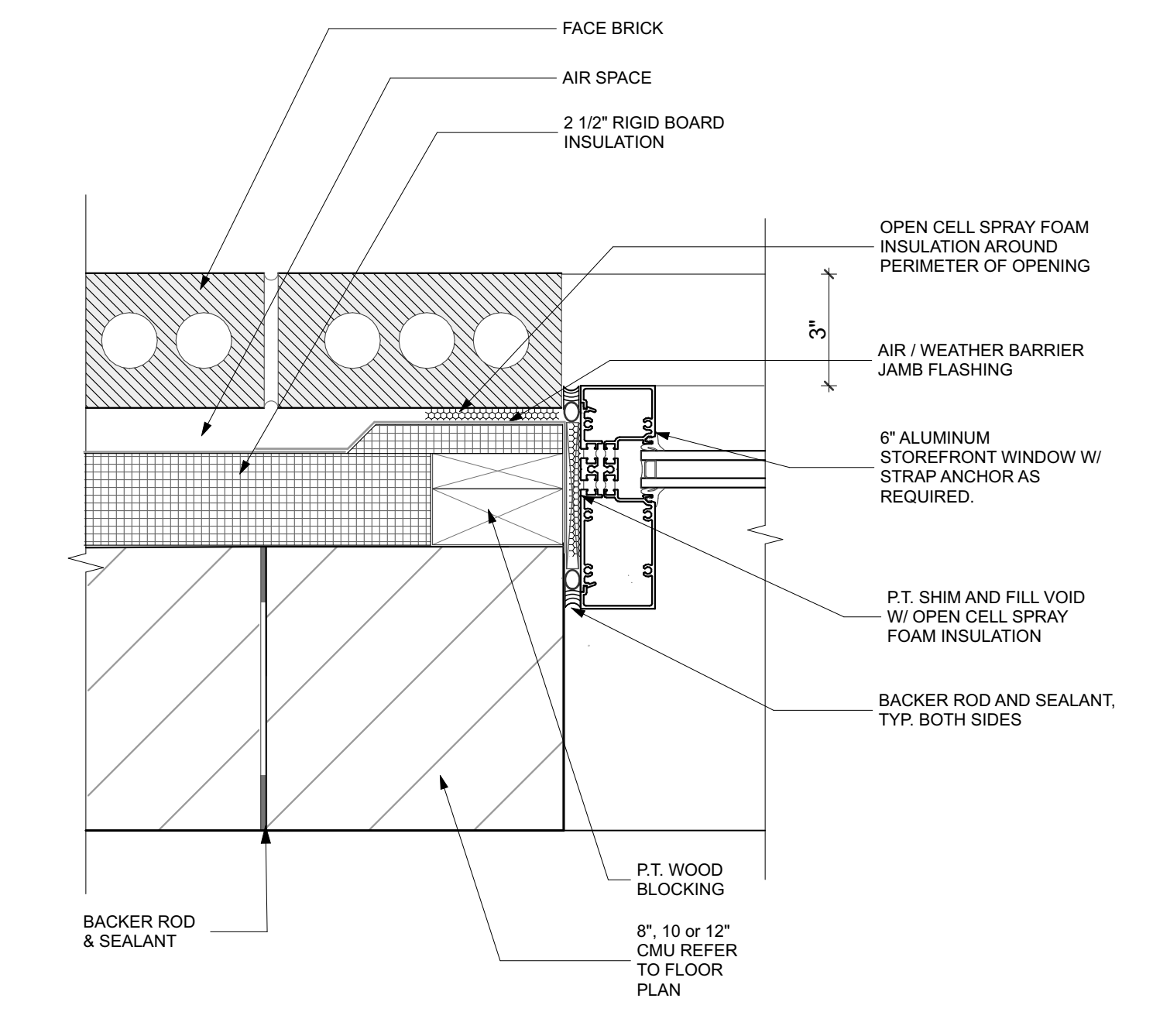
H12 HEAD DETAIL 3" = 1'-0"



J15 JAMB DETAIL 3" = 1'-0"



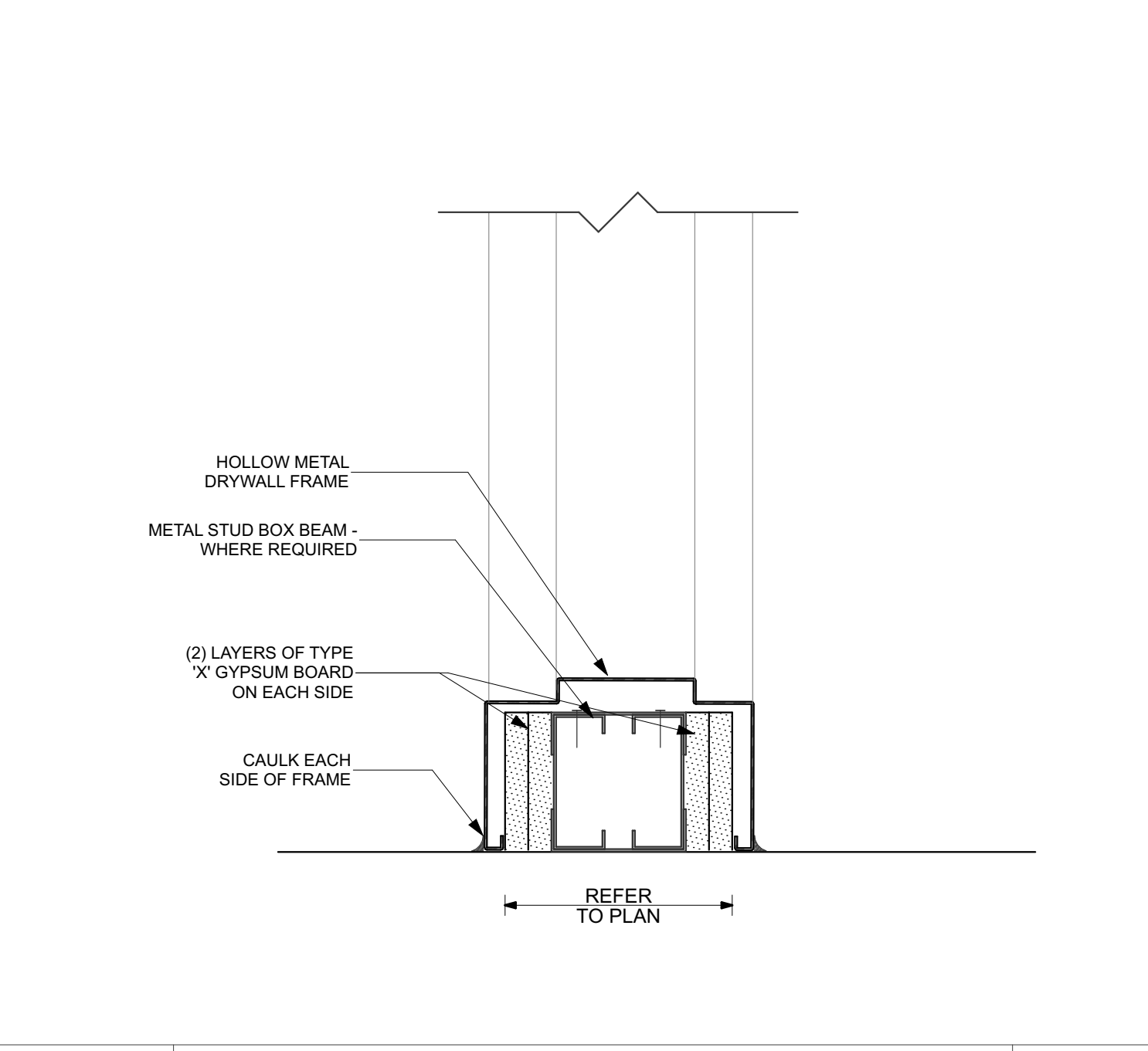
J14 JAMB DETAIL 3" = 1'-0"



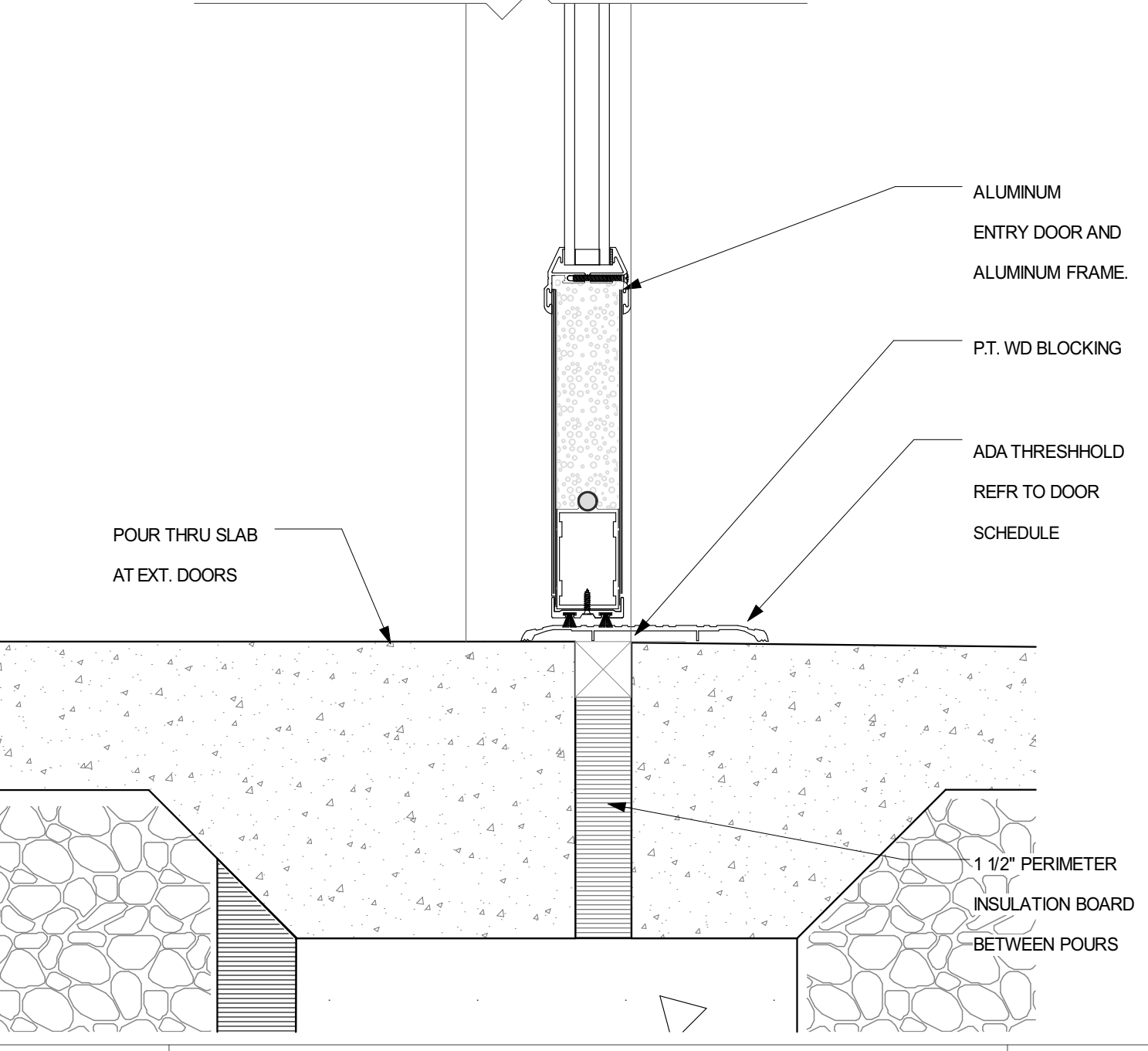
J13 JAMB DETAIL 3" = 1'-0"



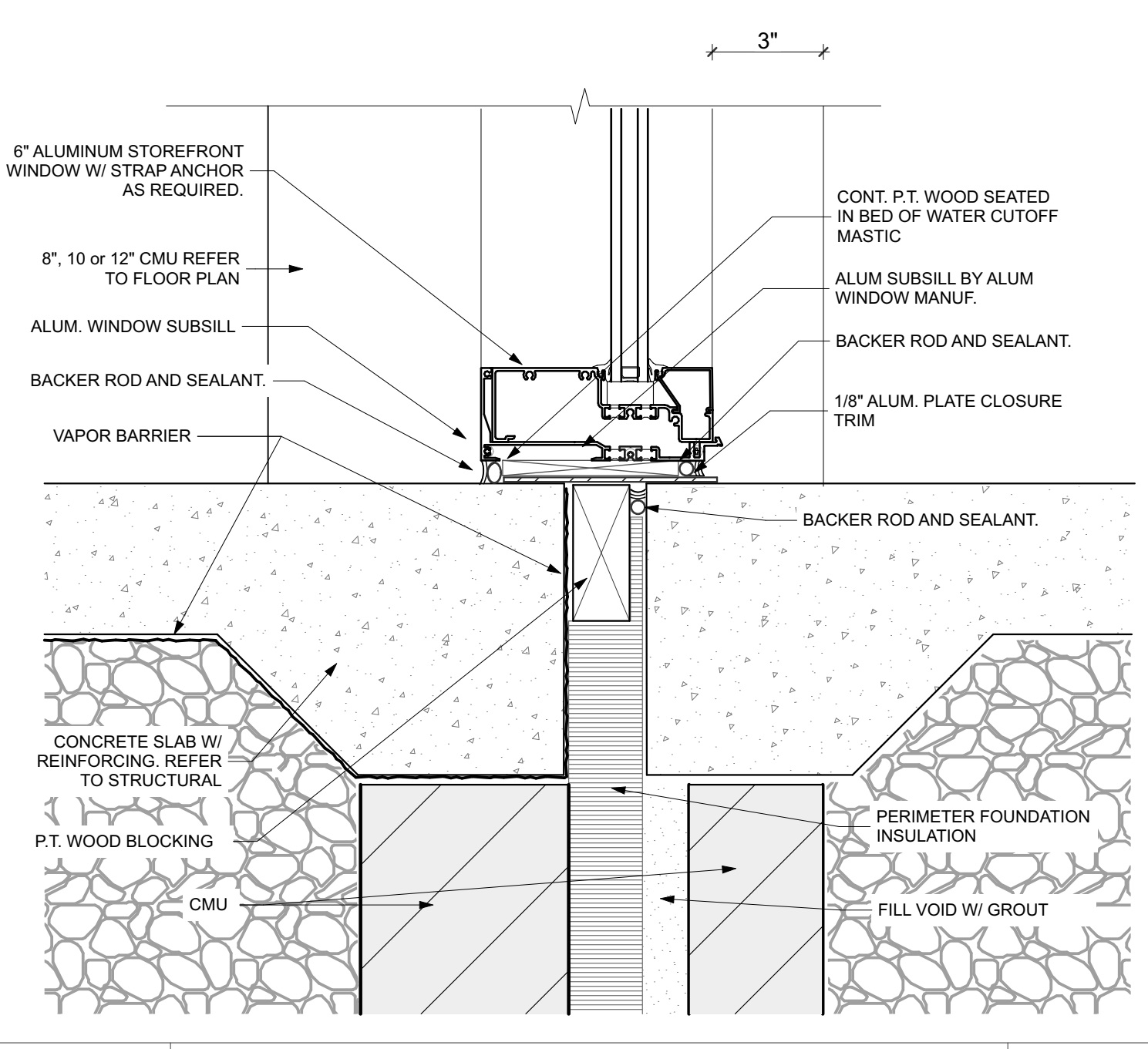
J12 JAMB DETAIL 3" = 1'-0"



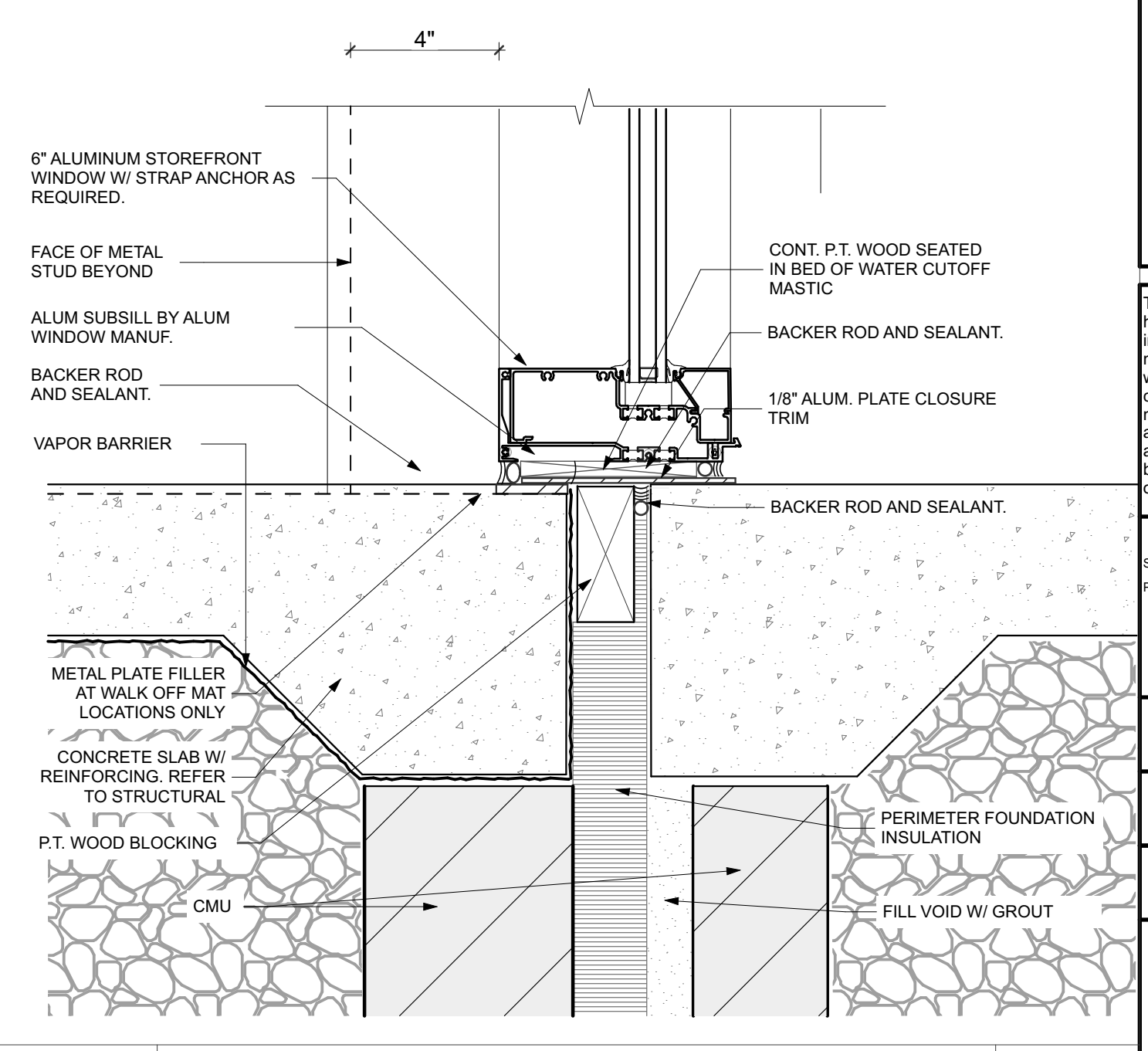
S15 SILL DETAIL 3" = 1'-0"



S14 SILL DETAIL 3" = 1'-0"



S13 SILL DETAIL 3" = 1'-0"



S12 SILL DETAIL 3" = 1'-0"

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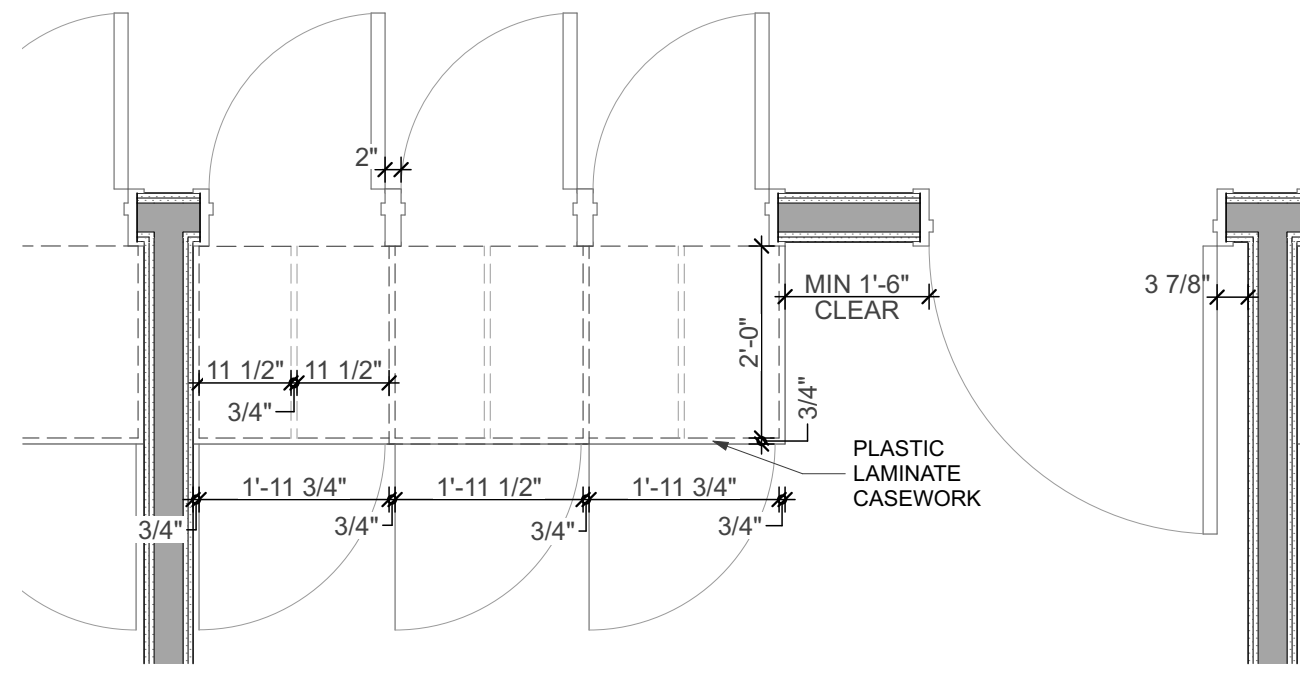
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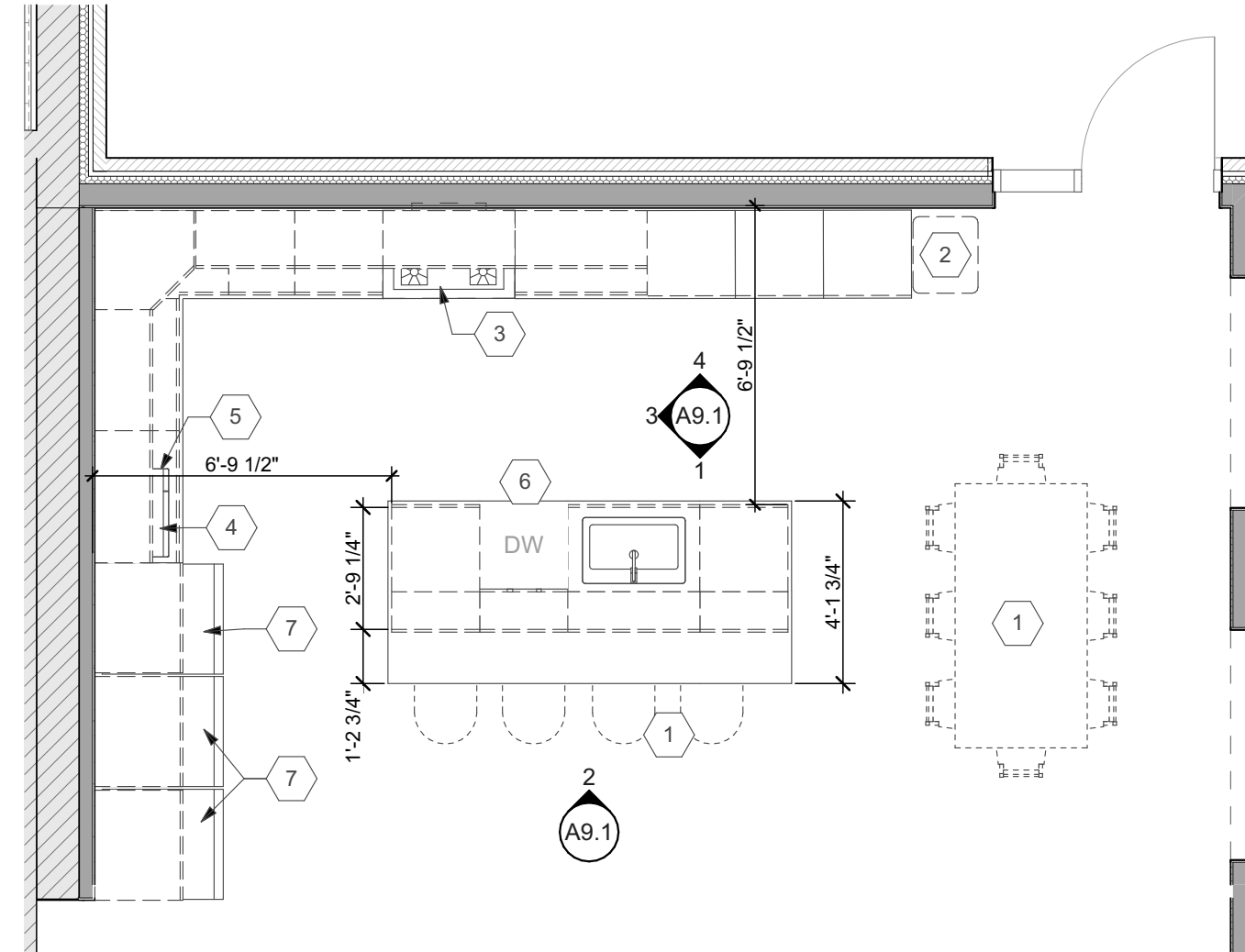
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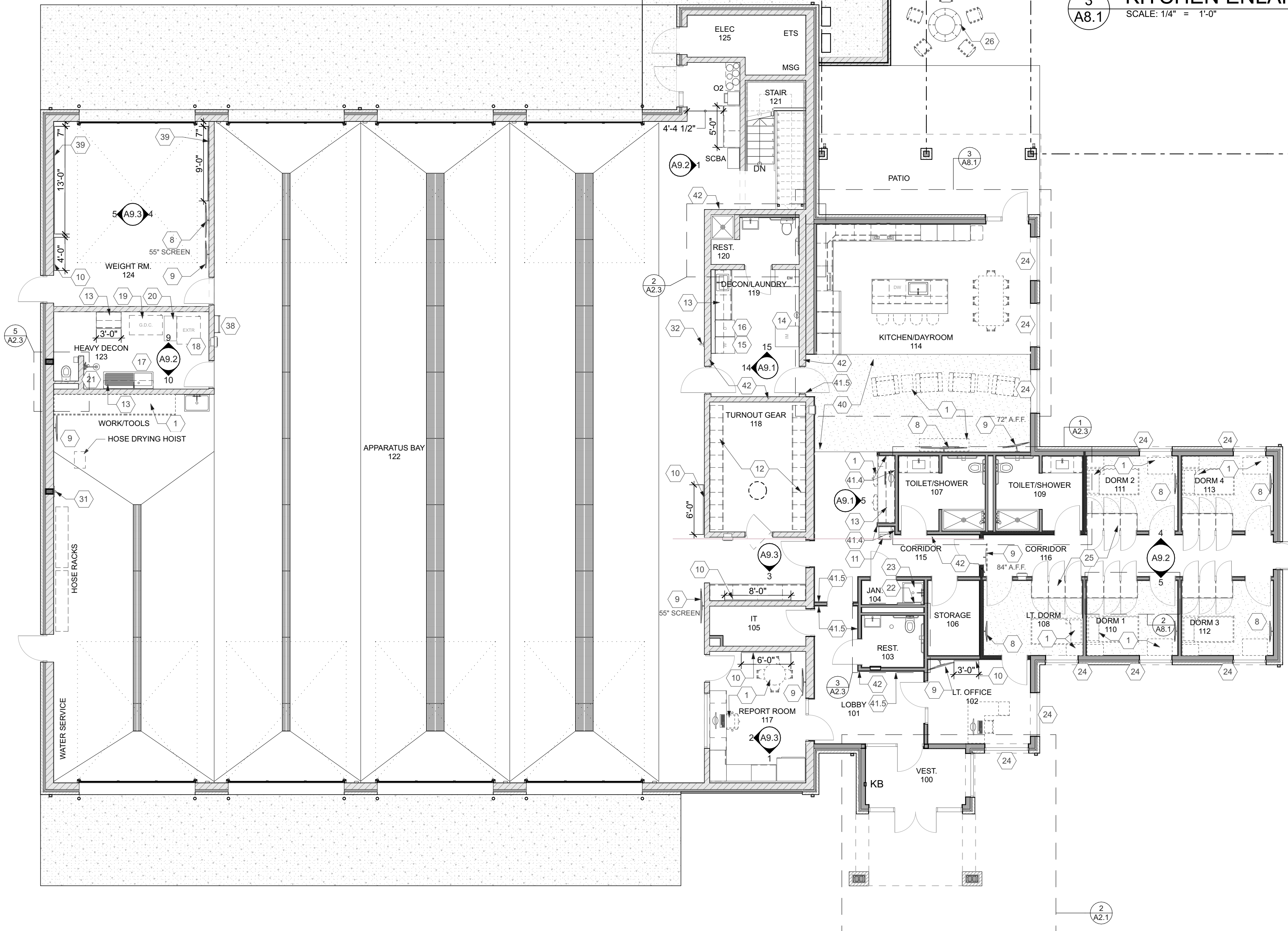
HEAD JAMB AND SILL DETAILS
A7.4



2 DORM LOCKERS (TYP.)
SCALE: 1/2" = 1'-0"



3 KITCHEN ENLARGEMENT
SCALE: 1/4" = 1'-0"



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

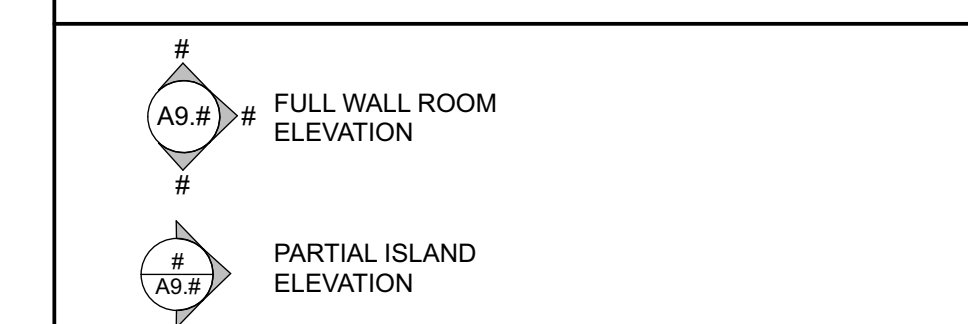
EQUIPMENT PLAN NOTES

1. LOOSE FURNITURE, N.I.C.
2. TRASH RECEPTACLE, N.I.C.
3. RANGE/OVEN W/ HOOD, REFER TO MEP DRAWINGS.
4. COFFEE MAKER, BY OWNER, PROVIDE NECESSARY CONNECTIONS FOR PERMANENT WATER CONNECTION.
5. MICROWAVE, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
6. DISHWASHER, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
7. REFRIGERATOR, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
8. WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT.
9. 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT. 60" A.F.F. U.N.O.
10. WHITE BOARD, REFER TO MOUNTING HEIGHTS ON SHEET A2.3.
11. DRINKING FOUNTAIN, REFER TO MOUNTING HEIGHTS ON SHEET A2.3. AND PLUMBING DRAWINGS.
12. TURN OUT GEAR LOCKERS, N.I.C.
13. SHELF, REFER TO SHEET A9.1 FOR MOUNTING HEIGHTS.
14. ICE MAKER, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
15. WASHING MACHINE, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
16. DRYER, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
17. STAINLESS STEEL SINK, REFER TO SPECIFICATIONS, COORDINATE WITH PLUMBING DRAWINGS.
18. EXTRACTOR, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
19. GEAR DRYING CABINET, BY OWNER PROVIDE NECESSARY CONNECTIONS. COORDINATE WITH MEP DRAWINGS.
20. LINT TRAP, REFER TO PLUMBING DRAWINGS.
21. EMERGENCY EYE WASH AND SHOWER, REFER TO SPECIFICATIONS, COORDINATE WITH PLUMBING DRAWINGS.
22. MOP HOLDER, REFER TO SPECIFICATIONS AND SHEET A2.3 FOR MOUNTING HEIGHT.
23. MOP SINK, REFER TO PLUMBING DRAWINGS.
24. ROLLER SHADES, REFER TO SPECIFICATIONS.
25. PASS-THROUGH LOCKERS, REFER TO 2/A8.1 AND SHEET A9.2.
26. FIRE PIT BY OWNER, PROVIDE GAS CONNECTION, REFER TO PLUMBING DRAWINGS.
27. TRAINING TIE-OFF ANCHORS AT 1'-8" A.F.F. AND AT 6'-0" A.F.F. REFER TO STRUCTURAL.
28. NOT USED.
29. TRAINING TIE-OFF ANCHOR IN FLOOR, REFER TO STRUCTURAL.
30. TRAINING TIE-OFF ANCHOR 4'-0" A.F.F. REFER TO STRUCTURAL.
31. TRAINING TIE-OFF ANCHOR 1'-8" A.F.F. REFER TO STRUCTURAL.
32. VERTICAL TRAINING LADDER TIE-OFF BAR, CENTER 1'-8" A.F.F. REFER TO STRUCTURAL.
33. TRAINING TIE-OFF ANCHOR ABOVE WINDOW, REFER TO STRUCTURAL.
34. TRAINING WINDOW, REFER TO 3/A8.7 AND 2/A9.2.
35. STEEL HINGED GATE WITH PIN LOCK IN FLOOR.
36. REMOVABLE GUARD RAIL W/ SECTIONS @ 48" MAX. REFER TO DETAIL 4/A6.7
37. TRAINING MANHOLE, BARRY PATTERN & FOUNDRY B-6044.
38. PREFABRICATED ALUM. WALL-MOUNTED LADDER.
39. MIRROR, REFER TO INTERIOR ELEVATIONS AND SPECIFICATIONS.
40. CARPET TILE, REFER TO ROOM FINISH SCHEDULE, ALIGN WITH BULKHEAD ABOVE.
41. PAINT WALL ACCENT COLOR. # INDICATES PAINT COLOR, REFER TO SHEET A7.1 FOR COLORS.
42. REFER TO SHEET A1.2 FOR STORM SHELTER SIGNAGE.

EQUIPMENT PLAN GENERAL NOTES

- A. ALL BASE CABINETS TO HAVE COUNTERTOPS U.N.O. WITH 4" H BACK-SPLASH AND END-SPLASH AS REQUIRED.
- B. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
- C. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
- D. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL AND DATA LINES/CONDUITS/OUTLETS.
- E. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, END-SPLASH, AND WALLS.
- F. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
- G. FIELD VERIFY LENGTH. AFTER FIELD MEASUREMENTS, REDUCE CABINET FILLER AND INCREASE STANDARD CABINET SIZES WHERE POSSIBLE. MAINTAIN MANUFACTURERS RECOMMENDED DESIGN FILLER PLACEMENTS AND SIZES.
- H. REFER TO REFLECTED CEILING PLANS FOR CEILING MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS AND COORDINATE WITH ELECTRICAL DRAWINGS.
- I. REFER TO A2.3 FOR MOUNTING HEIGHTS.
- J. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND NOTIFY ARCHITECT IN WRITING PRIOR TO SHOP DRAWING SUBMITTAL OF ANY DETAILS IN CONFLICT WITH MANUFACTURER'S RECOMMENDATIONS.
- K. ALL LONG SPAN COUNTERTOPS SHALL HAVE ADDITIONAL INTERMEDIATE SUPPORT AS REQUIRED BY CASEWORK MANUFACTURER.
- L. (---) INDICATES ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS.

ENLARGEMENT LEGEND



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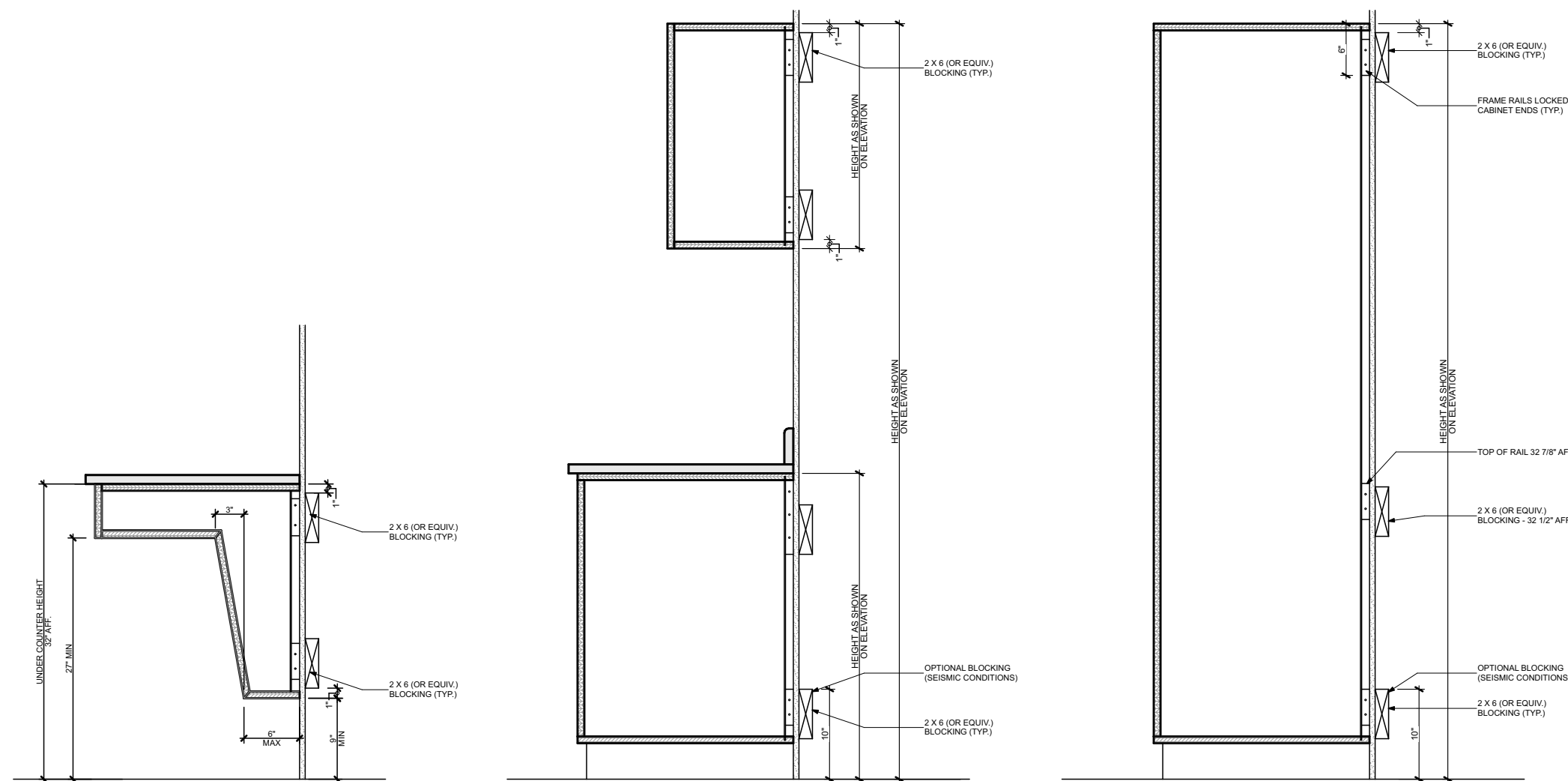
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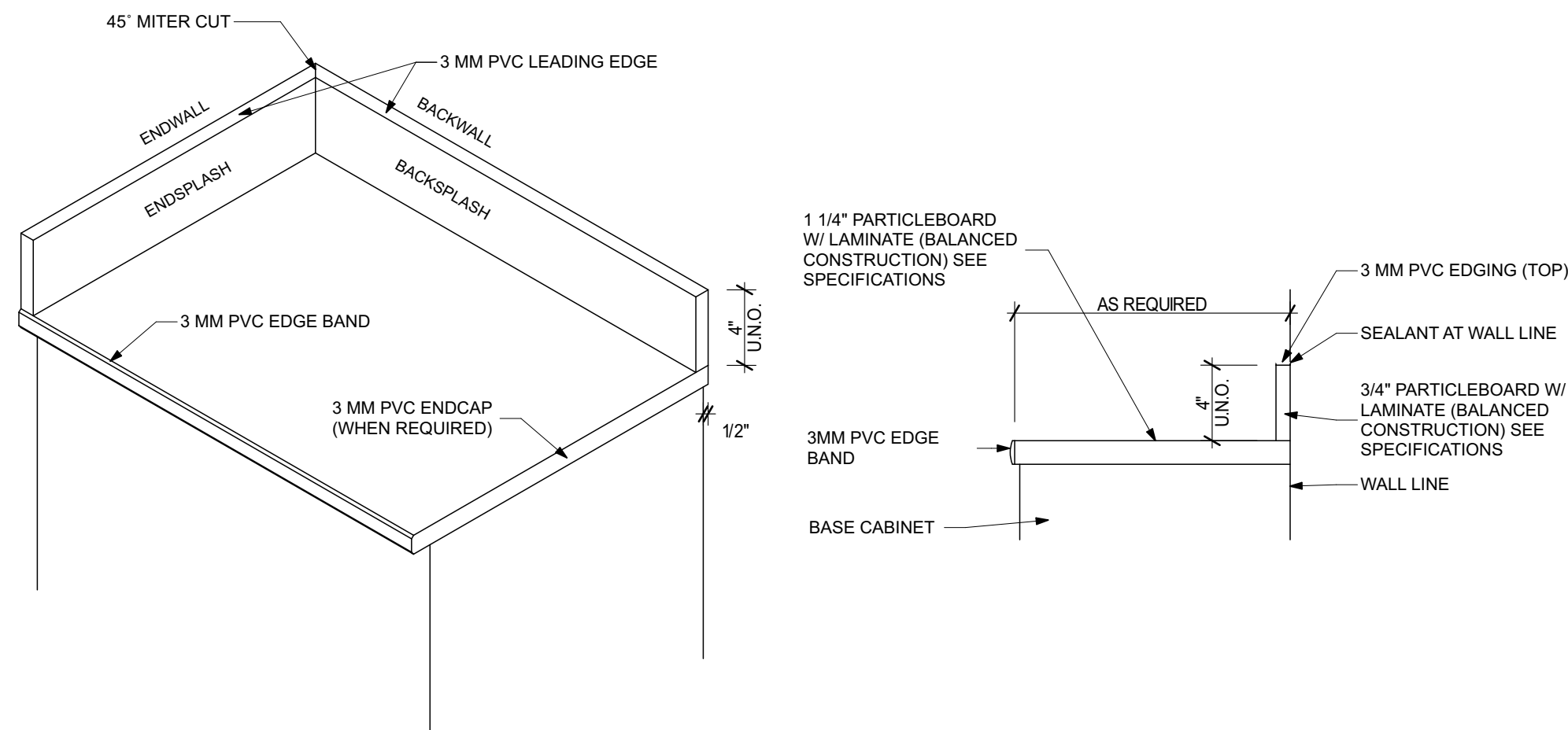
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FIRST FLOOR EQUIPMENT PLAN

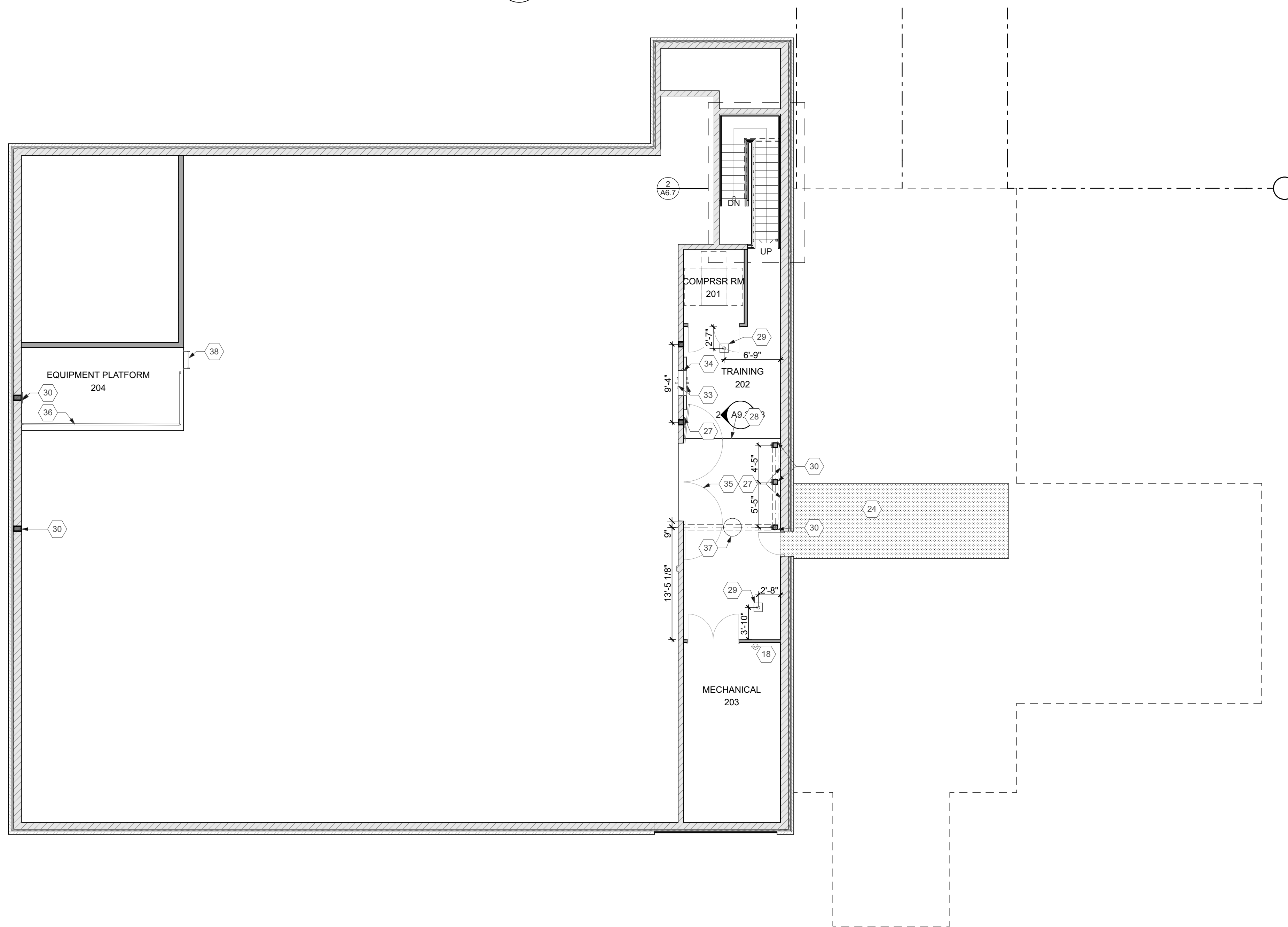
A8.1



2 TYP. CASEWORK BLOCKING
A8.2 SCALE: 3/4" = 1'-0"



3 TYP. COUNTER DETAILS
A8.2 SCALE: 1 1/2" = 1'-0"



1 MEZZANINE
A8.2 SCALE: 1/8" = 1'-0"

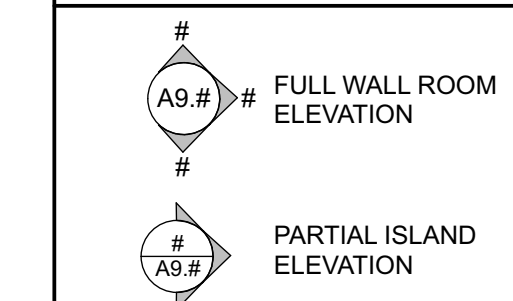
EQUIPMENT PLAN NOTES

1. LOOSE FURNITURE, N.I.C.
2. TRASH RECEPTACLE, N.I.C.
3. RANGE/OVEN W/ HOOD, REFER TO MEP DRAWINGS.
4. COFFEE MAKER, BY OWNER, PROVIDE NECESSARY CONNECTIONS FOR PERMANENT WATER CONNECTION.
5. MICROWAVE, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
6. DISHWASHER, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
7. REFRIGERATOR, BY OWNER, PROVIDE NECESSARY CONNECTIONS.
8. WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT.
9. 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT. 60" A.F.F. U.N.O.
10. WHITE BOARD, REFER TO MOUNTING HEIGHTS ON SHEET A2.3.
11. DRINKING FOUNTAIN, REFER TO MOUNTING HEIGHTS ON SHEET A2.3. AND PLUMBING DRAWINGS.
12. TURN OUT GEAR LOCKERS, N.I.C.
13. SHELF, REFER TO SHEET A9.1 FOR MOUNTING HEIGHTS.
14. ICE MAKER, BY OWNER PROVIDE NECESSARY CONNECTIONS. COORDINATE WITH MEP DRAWINGS.
15. WASHING MACHINE, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
16. DRYER, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH PLUMBING DRAWINGS.
17. STAINLESS STEEL SINK, REFER TO SPECIFICATIONS. COORDINATE WITH PLUMBING DRAWINGS.
18. EXTRACTOR, BY OWNER PROVIDE NECESSARY CONNECTIONS, COORDINATE WITH MEP DRAWINGS.
19. GEAR DRYING CABINET, BY OWNER PROVIDE NECESSARY CONNECTIONS. COORDINATE WITH MEP DRAWINGS.
20. LINT TRAP, REFER TO PLUMBING DRAWINGS.
21. EMERGENCY EYE WASH AND SHOWER, REFER TO SPECIFICATIONS, COORDINATE WITH PLUMBING DRAWINGS.
22. MOP HOLDER, REFER TO SPECIFICATIONS AND SHEET A2.3 FOR MOUNTING HEIGHT.
23. MOP SINK, REFER TO PLUMBING DRAWINGS.
24. ROLLER SHADES, REFER TO SPECIFICATIONS.
25. PASS-THROUGH LOCKERS, REFER TO 2/A8.1 AND SHEET A9.2.
26. FIRE PIT BY OWNER, PROVIDE GAS CONNECTION, REFER TO PLUMBING DRAWINGS.
27. TRAINING TIE-OFF ANCHORS AT 1'-8" A.F.F. AND AT 6'-0" A.F.F. REFER TO STRUCTURAL.
28. NOT USED.
29. TRAINING TIE-OFF ANCHOR IN FLOOR, REFER TO STRUCTURAL.
30. TRAINING TIE-OFF ANCHOR 4'-0" A.F.F. REFER TO STRUCTURAL.
31. TRAINING TIE-OFF ANCHOR 1'-8" A.F.F. REFER TO STRUCTURAL.
32. VERTICAL TRAINING LADDER TIE-OFF BAR, CENTER 1'-8" A.F.F. REFER TO STRUCTURAL.
33. TRAINING TIE-OFF ANCHOR ABOVE WINDOW, REFER TO STRUCTURAL.
34. TRAINING WINDOW, REFER TO 3/A8.7 AND 2/A9.2.
35. STEEL HINGED GATE WITH PIN LOCK IN FLOOR.
36. REMOVABLE GUARD RAIL W/ SECTIONS @ 48" MAX. REFER TO DETAIL 4/A8.7
37. TRAINING MANHOLE, BARRY PATTERN & FOUNDRY B-6044.
38. PREFABRICATED ALUM. WALL-MOUNTED LADDER.
39. MIRROR, REFER TO INTERIOR ELEVATIONS AND SPECIFICATIONS.
40. CARPET TILE. REFER TO ROOM FINISH SCHEDULE, ALIGN WITH BULKHEAD ABOVE.
41. PAINT WALL ACCENT COLOR. # INDICATES PAINT COLOR, REFER TO SHEET A7.1 FOR COLORS.
42. REFER TO SHEET A1.2 FOR STORM SHELTER SIGNAGE.

EQUIPMENT PLAN GENERAL NOTES

- A. ALL BASE CABINETS TO HAVE COUNTERTOPS U.N.O. WITH 4" H BACK-SPLASH AND END-SPLASH AS REQUIRED.
- B. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
- C. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
- D. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL AND DATA LINES/CONDUITS/OUTLETS.
- E. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, END-SPLASH, AND WALLS.
- F. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
- G. FIELD VERIFY LENGTH. AFTER FIELD MEASUREMENTS, REDUCE CABINET FILLER AND INCREASE STANDARD CABINET SIZES WHERE POSSIBLE. MAINTAIN MANUFACTURERS RECOMMENDED DESIGN FILLER PLACEMENTS AND SIZES.
- H. REFER TO REFLECTED CEILING PLANS FOR CEILING MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS AND COORDINATE WITH ELECTRICAL DRAWINGS.
- I. REFER TO A2.3 FOR MOUNTING HEIGHTS.
- J. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND NOTIFY ARCHITECT IN WRITING PRIOR TO SHOP DRAWING SUBMITTAL OF ANY DETAILS IN CONFLICT WITH MANUFACTURER'S RECOMMENDATIONS.
- K. ALL LONG SPAN COUNTERTOPS SHALL HAVE ADDITIONAL INTERMEDIATE SUPPORT AS REQUIRED BY CASEWORK MANUFACTURER.
- L. (.....) INDICATES ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS.

ENLARGEMENT LEGEND



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STATE OF OHIO
REGISTERED ARCHITECT

DANIEL J. FREYTAG
8533

Daniel J. Freytag

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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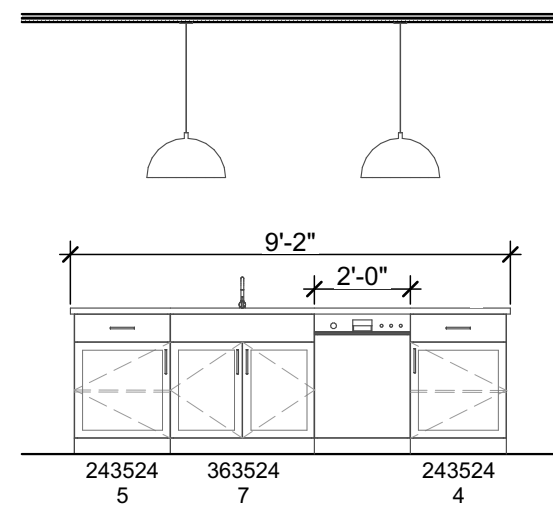
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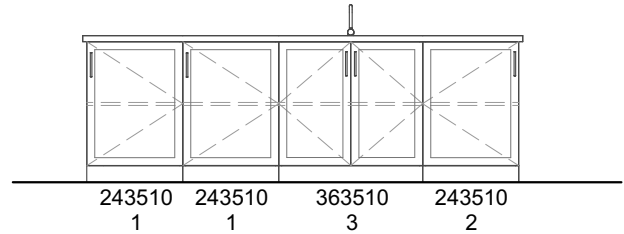
MEZZANINE EQUIPMENT PLAN

A8.2

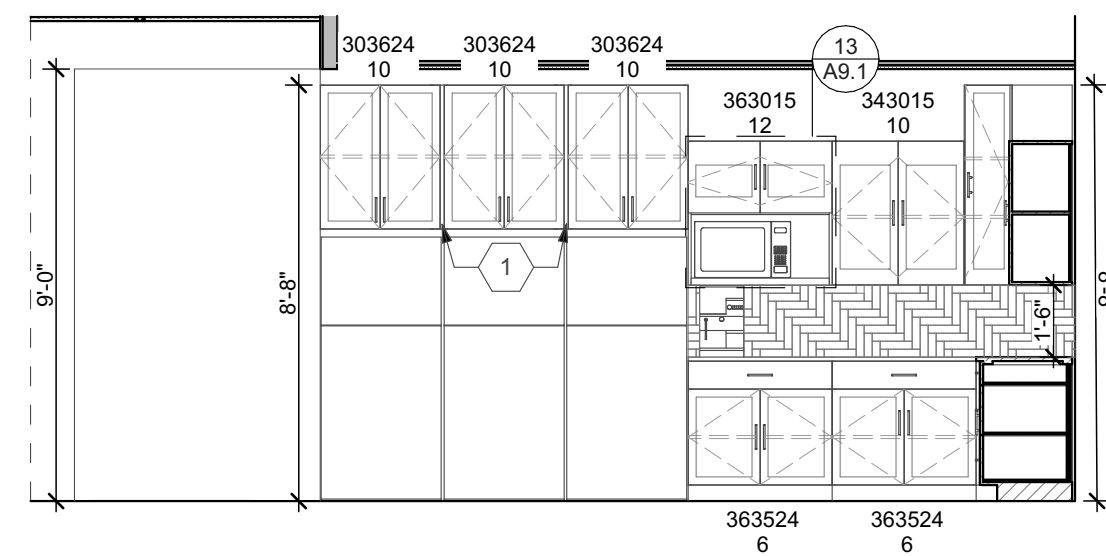
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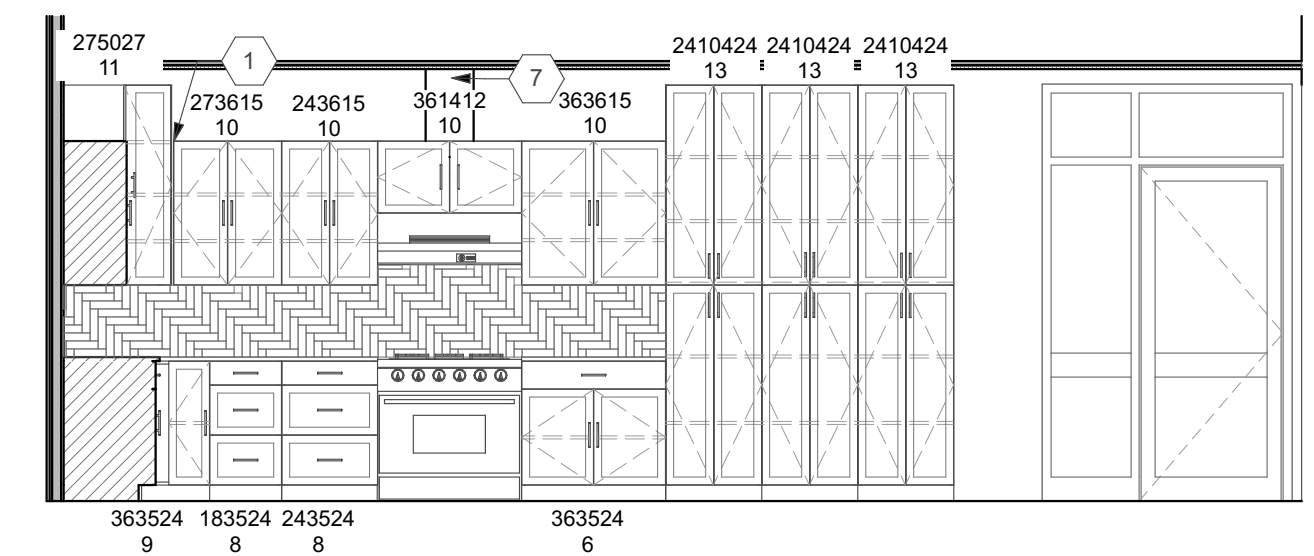
1
A9.1 **114 S KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"



2
A9.1 **114 N ISLAND**
SCALE: 1/4" = 1'-0"



3
A9.1 **114 W KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"



4
A9.1 **114 N KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"

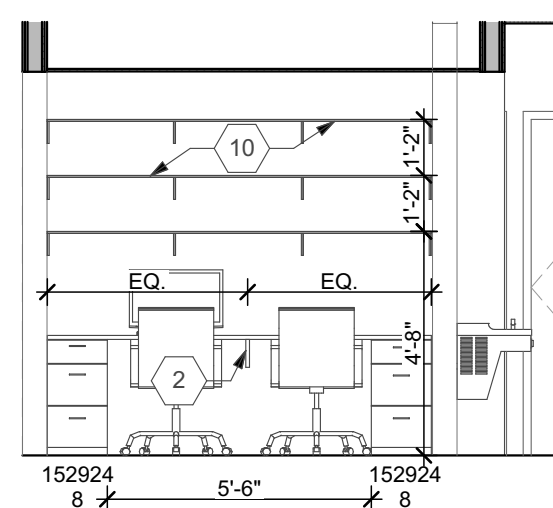
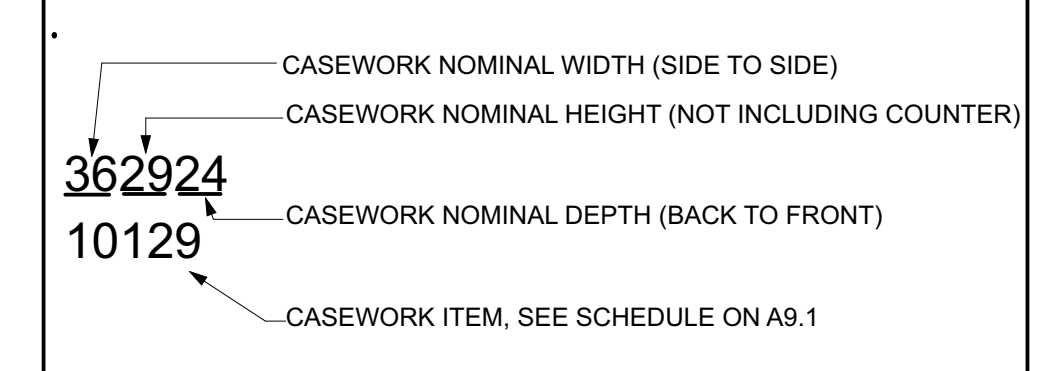
INTERIOR ELEVATION NOTES

- ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- CABINET FILLER, SIZE AS REQUIRED.
 - PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
 - WHITE BOARD, REFER TO SPECIFICATIONS.
 - TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
 - STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
 - FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7. FIELD VERIFY WITH OWNER / ARCHITECT.
 - CHASE AROUND DUCT.
 - PROVIDE LOCK ON CASEWORK, REFER TO CASEWORK SCHEDULE.
 - TOILETRY NICHE, REFER TO SPECIFICATIONS.
 - WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - PROVIDE BLOCKING FOR FUTURE SHOWER SEAT.
 - WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT.
 - 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT. 60" A.F.F. U.N.O.
 - MIRROR, REFER TO SPECIFICATIONS.

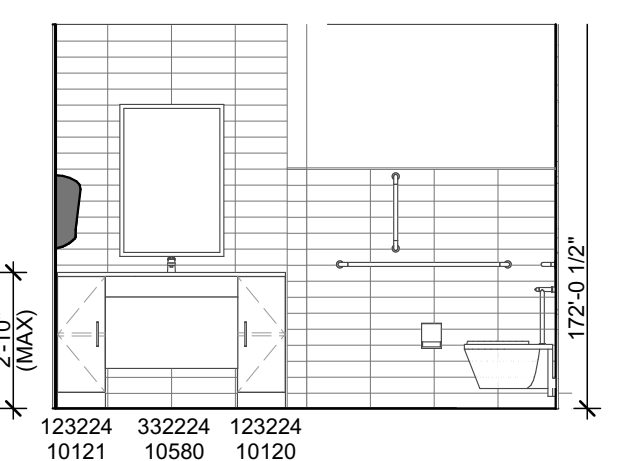
ELEVATION GENERAL NOTES

- VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.
- REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.
- PROVIDE ANY NECESSARY BLOCKING.
- COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND

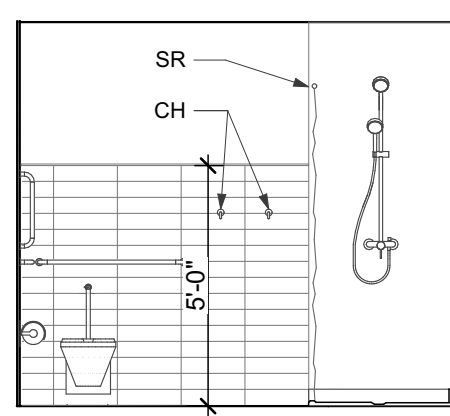


5
A9.1 **115 E CORRIDOR**
SCALE: 1/4" = 1'-0"

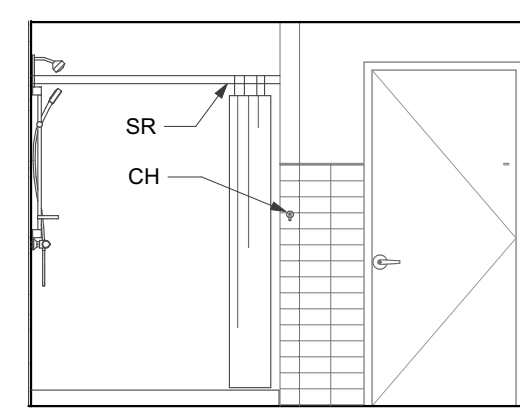


6
A9.1 **107 N TOILET/SHOWER**
SCALE: 1/4" = 1'-0"

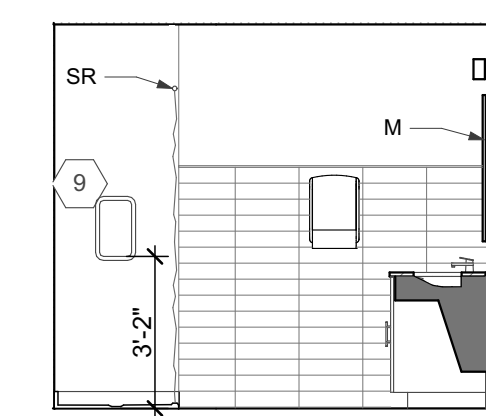
MIRROR FOR 109 TOILET/SHOWER



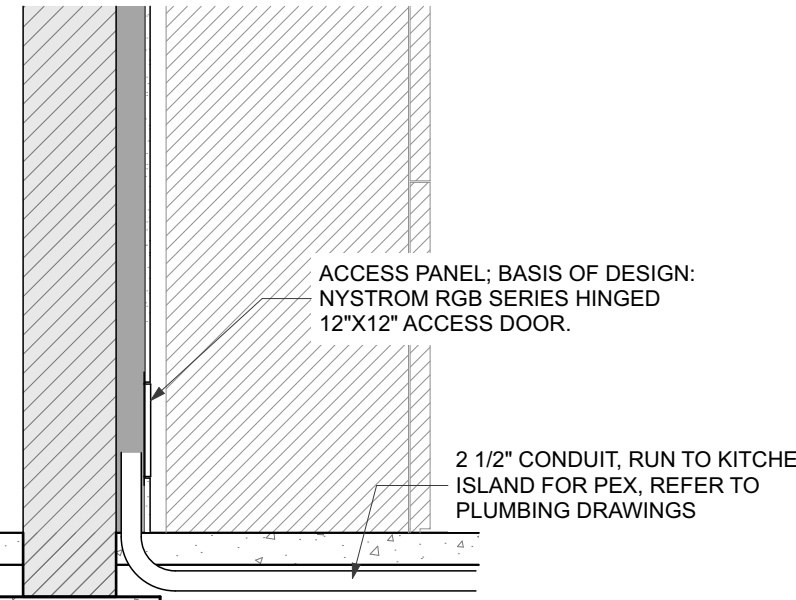
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A9.1 **107 E TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



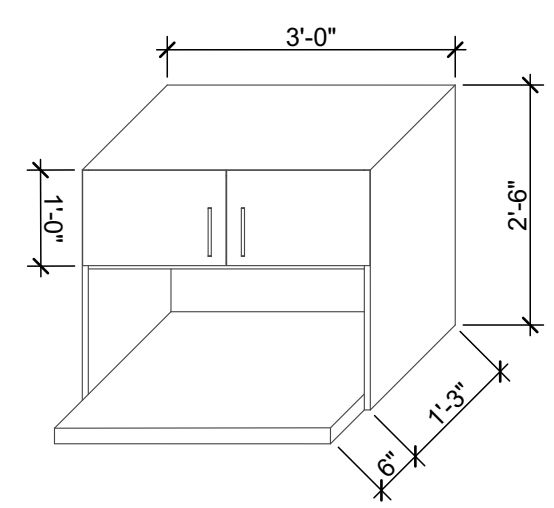
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A9.1 **S 107 S TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



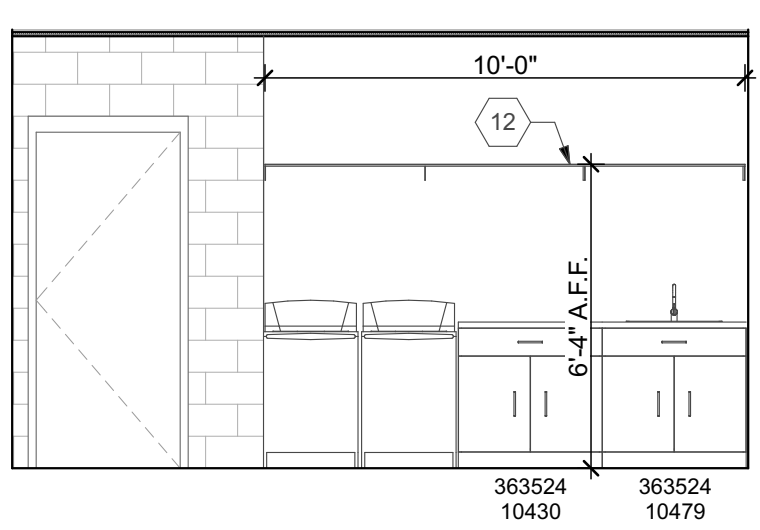
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A9.1 **107 W TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



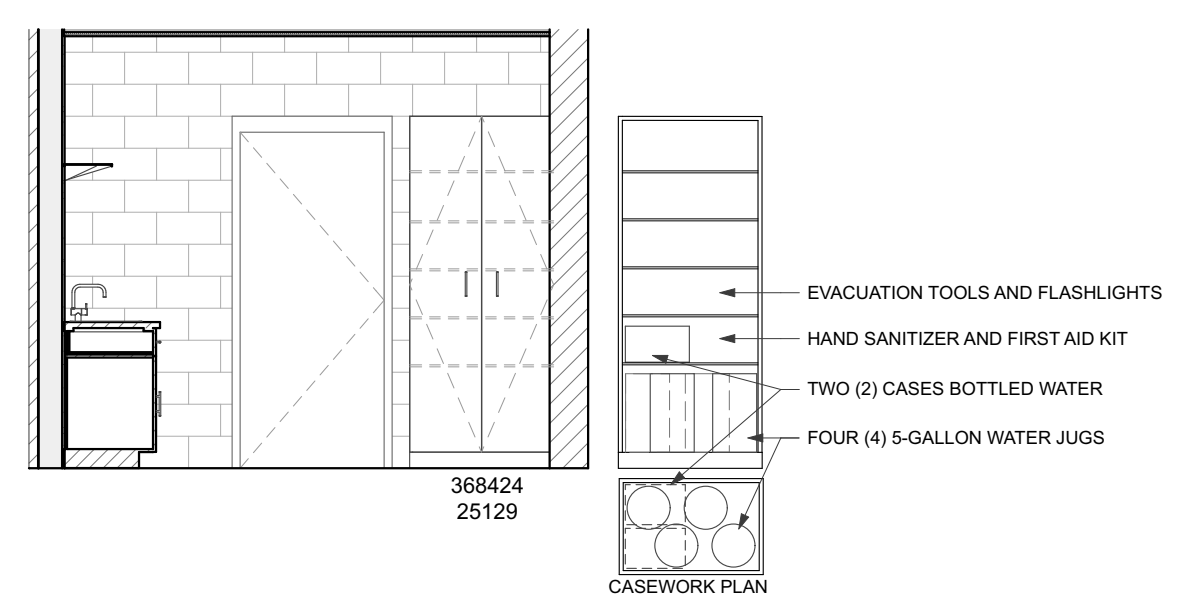
12
A9.1 **CASEWORK DETAIL**
SCALE: 1/2" = 1'-0"



13
A9.1 **CASEWORK DETAIL**
SCALE: 1/2" = 1'-0"



14
A9.1 **119 W DECON/LAUNDRY**
SCALE: 1/4" = 1'-0"



15
A9.1 **119 N DECON/LAUNDRY**
SCALE: 1/4" = 1'-0"

CASEWORK SCHEDULE - PLASTIC LAMINATE					CASEWORK SCHEDULE - CUSTOM WOOD				
BASIS OF DESIGN					BASIS OF DESIGN				
MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MECHANICAL CONNECTION	NOTES					
CASEWORK - REFER TO DIV 12									
STEVENS	10101	BASE CABINET WITH ADJUSTABLE SHELF			CUSTOM	1	BASE CABINET WITH ONE RIGHT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
STEVENS	10120	BASE CABINET WITH ONE RIGHT HINGE DOOR AND ADJUSTABLE SHELVES			CUSTOM	2	BASE CABINET WITH ONE LEFT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
STEVENS	10121	BASE CABINET WITH ONE LEFT HINGE DOOR AND ADJUSTABLE SHELVES			CUSTOM	3	BASE CABINET WITH TWO HINGE DOORS WITH ONE ADJUSTABLE SHELF		
STEVENS	10201	BASE CABINET BLIND CORNER WITH ONE LEFT HINGE DOOR WITH ONE ADJUSTABLE SHELF			CUSTOM	4	BASE CABINET WITH ONE 6-1/8\"/>		

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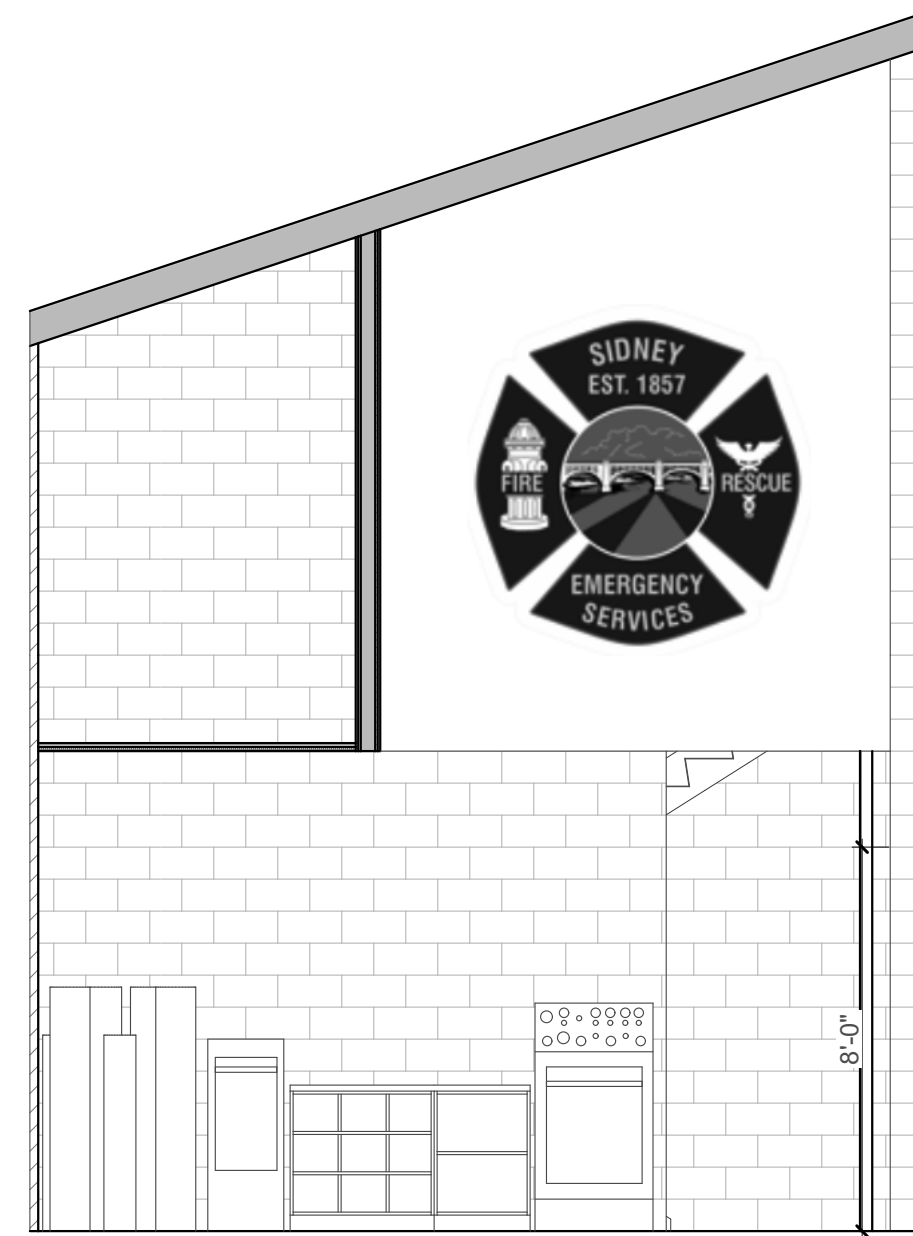
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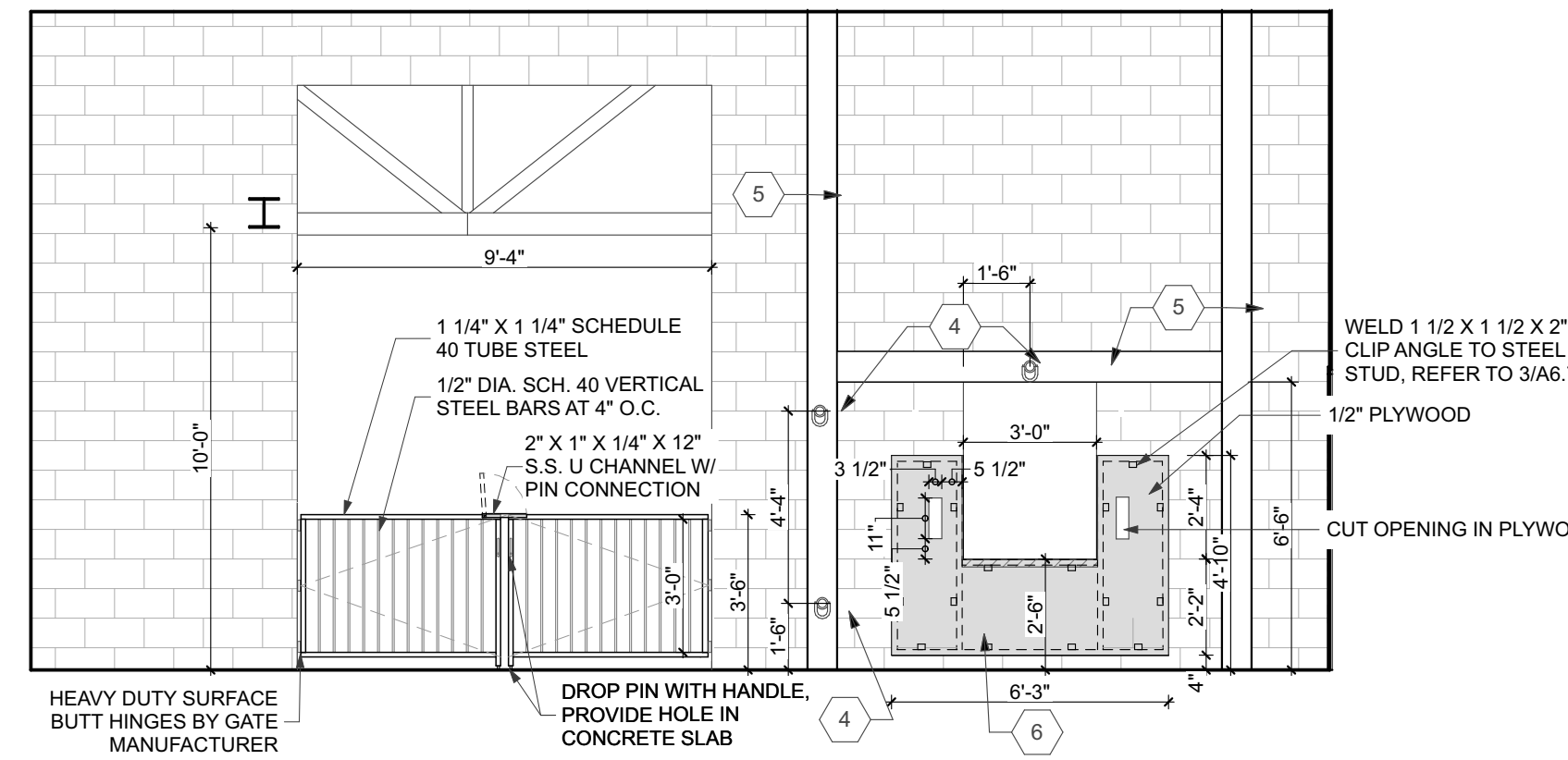
INTERIOR ELEVATIONS

A9.1

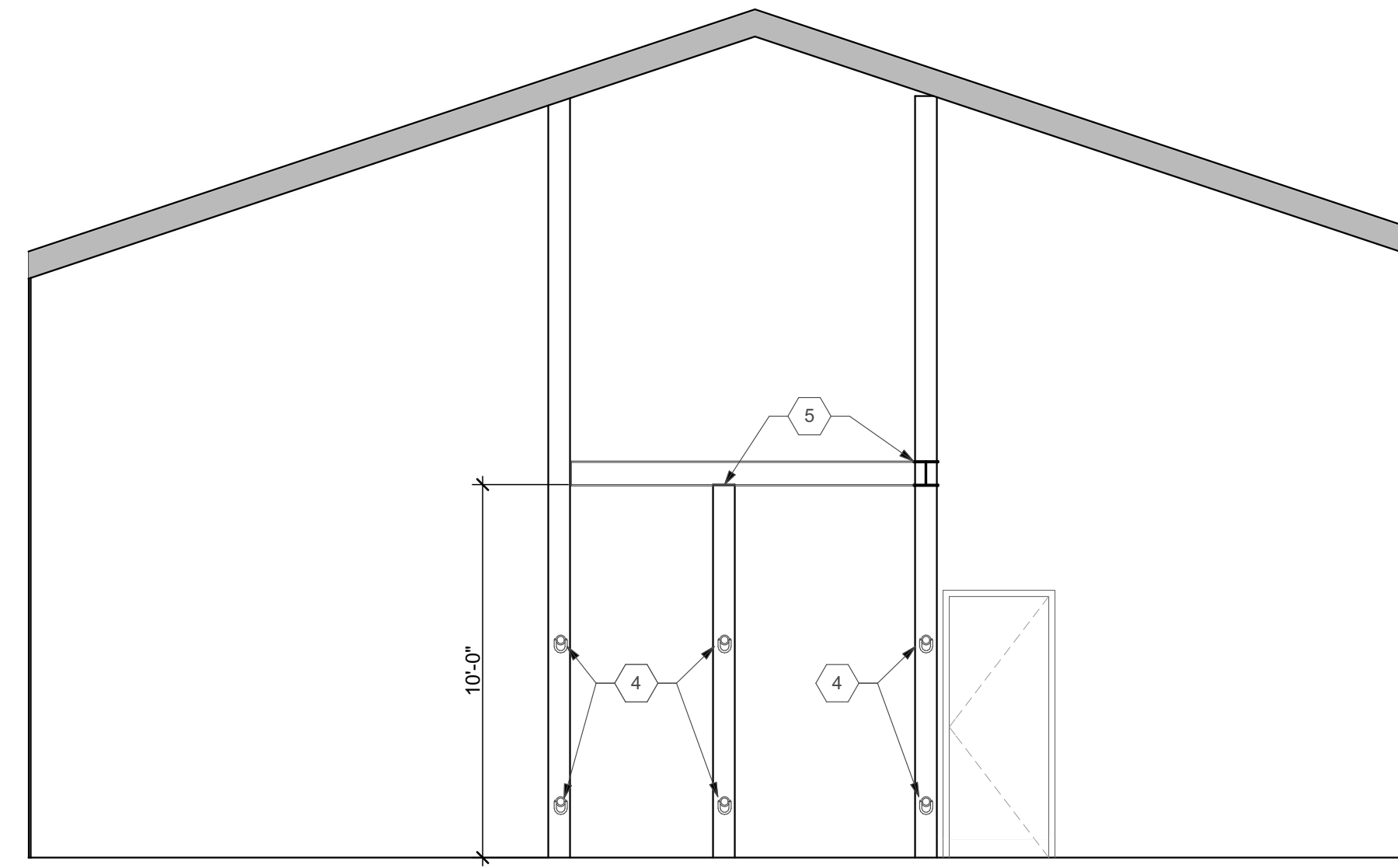
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1 E SCBA AREA
SCALE: 1/4" = 1'-0"



2 202 W TRAINING
SCALE: 1/4" = 1'-0"



3 202 E TRAINING
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

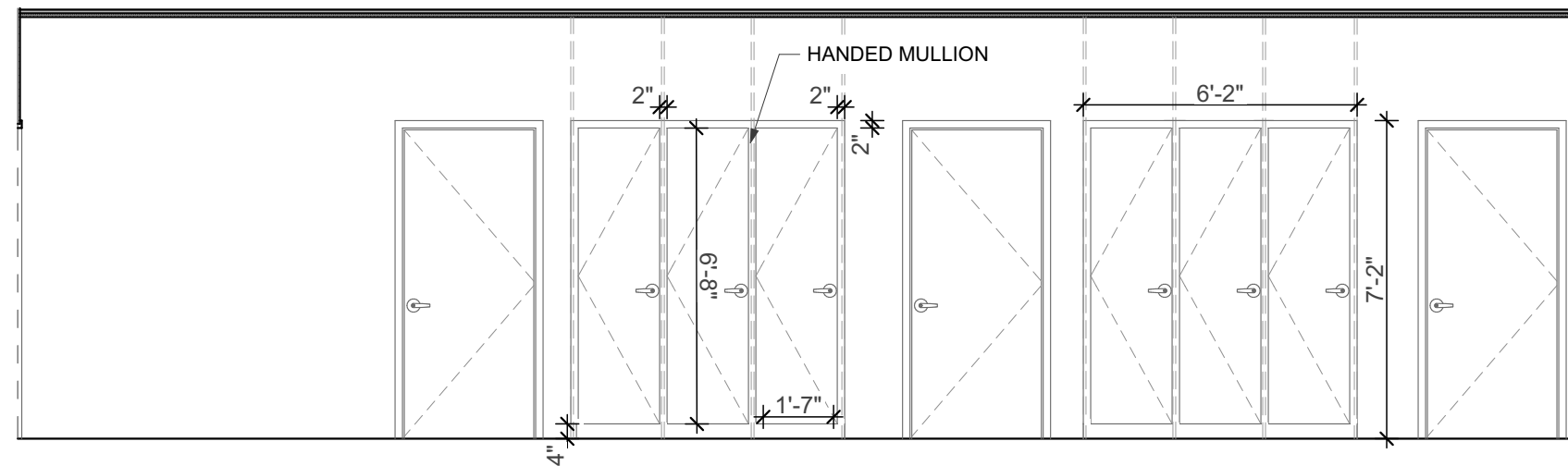
- CABINET FILLER, SIZE AS REQUIRED.
- PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
- WHITE BOARD, REFER TO SPECIFICATIONS.
- TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
- STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
- FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL. COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7. FIELD VERIFY WITH OWNER / ARCHITECT.
- CHASE AROUND DUCT.
- PROVIDE LOCK ON CASEWORK. REFER TO CASEWORK SCHEDULE.
- TOILETRY NICHE, REFER TO SPECIFICATIONS.
- WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
- STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
- WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
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- MIRROR, REFER TO SPECIFICATIONS.

ELEVATION GENERAL NOTES

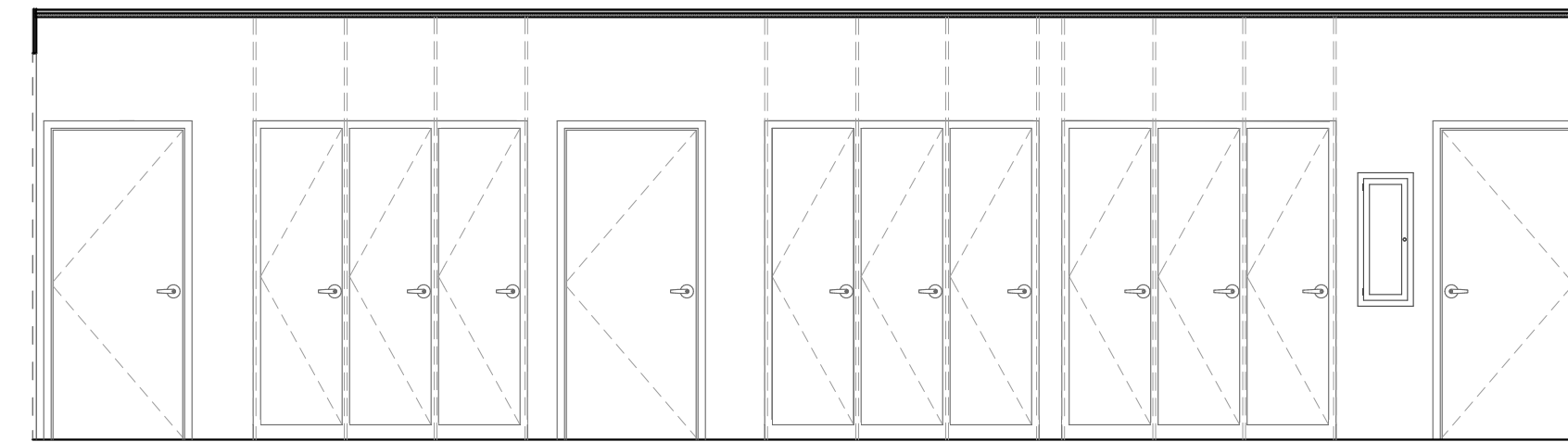
- VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.
- REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.
- PROVIDE ANY NECESSARY BLOCKING.
- COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND

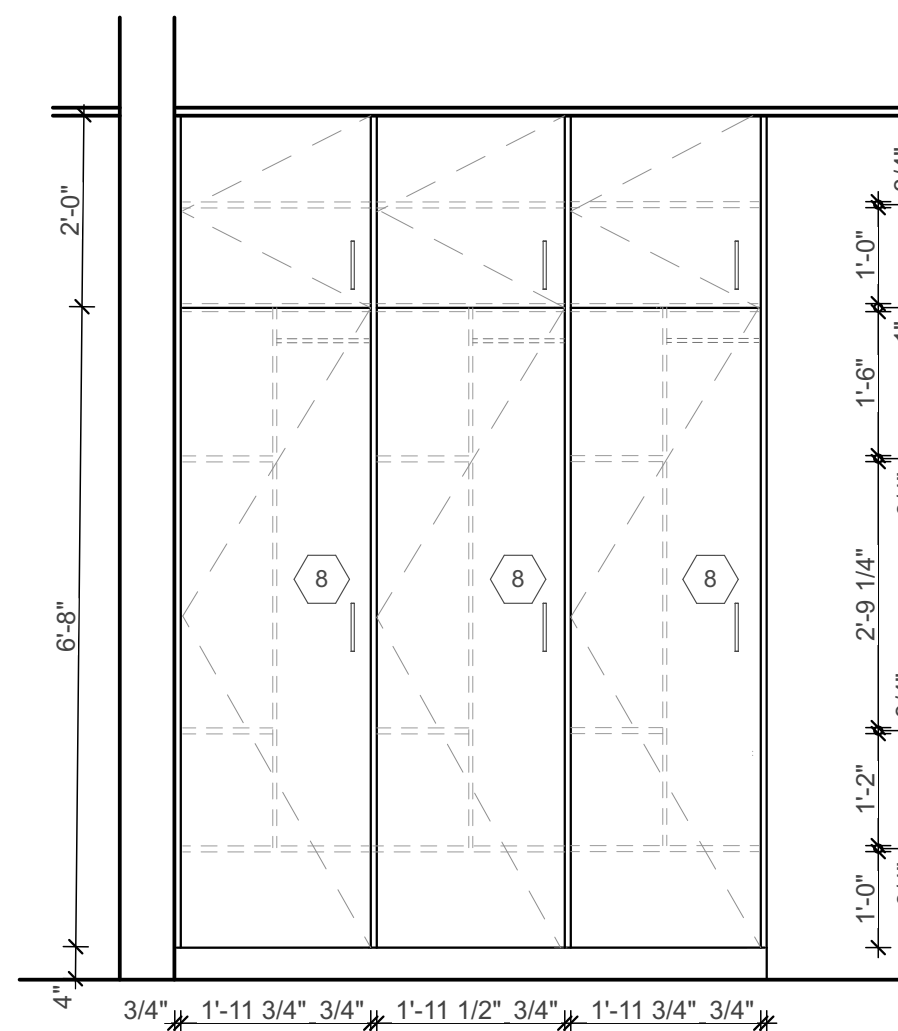
- CASEWORK NOMINAL WIDTH (SIDE TO SIDE)
- CASEWORK NOMINAL HEIGHT (NOT INCLUDING COUNTER)
- CASEWORK NOMINAL DEPTH (BACK TO FRONT)
- CASEWORK ITEM, SEE SCHEDULE ON A9.1



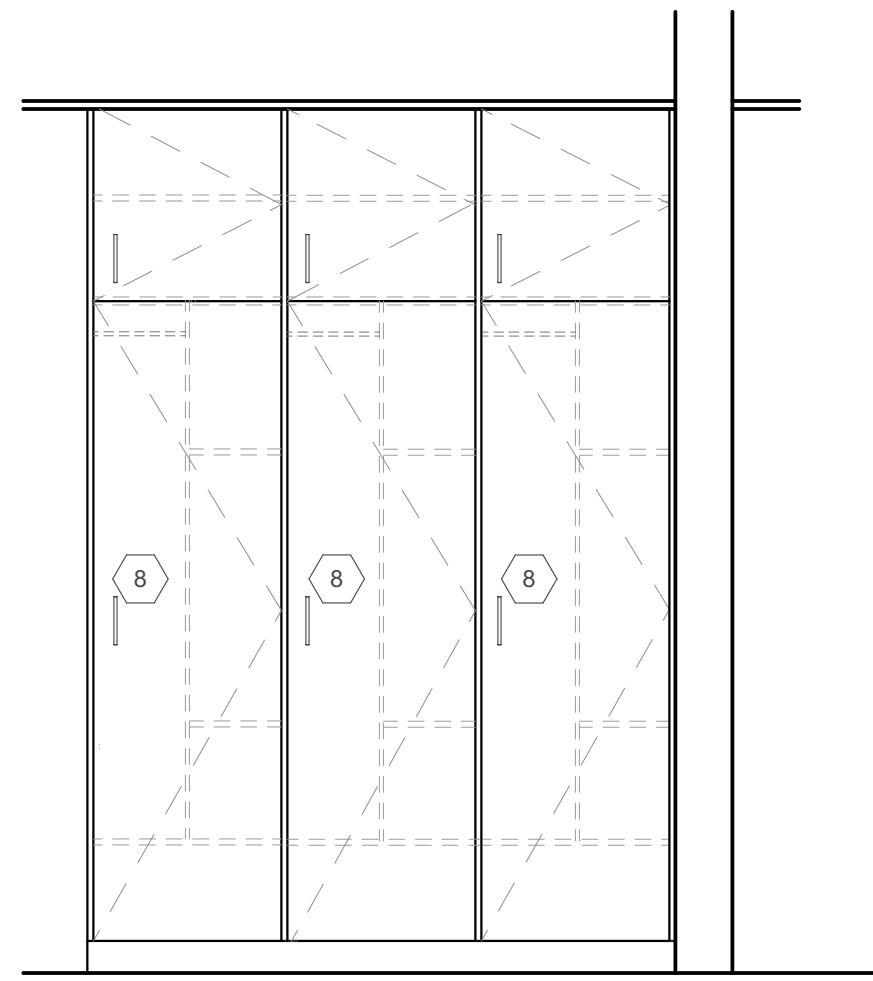
4 116 N CORRIDOR
SCALE: 1/4" = 1'-0"



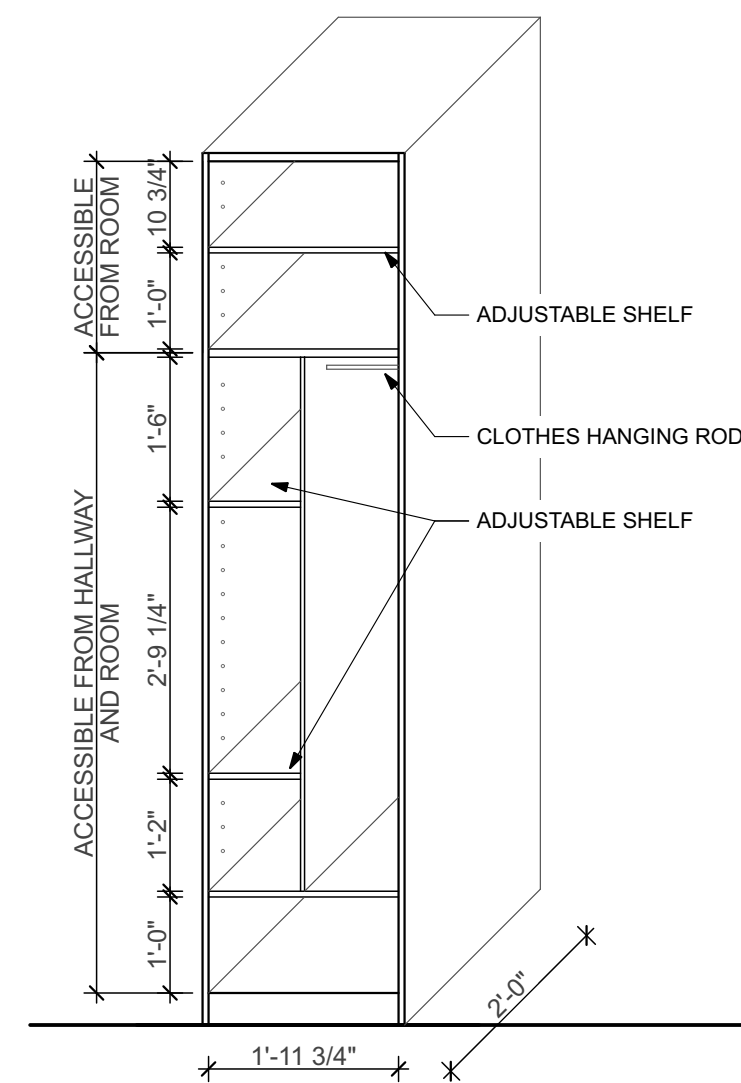
5 116 S CORRIDOR
SCALE: 1/4" = 1'-0"



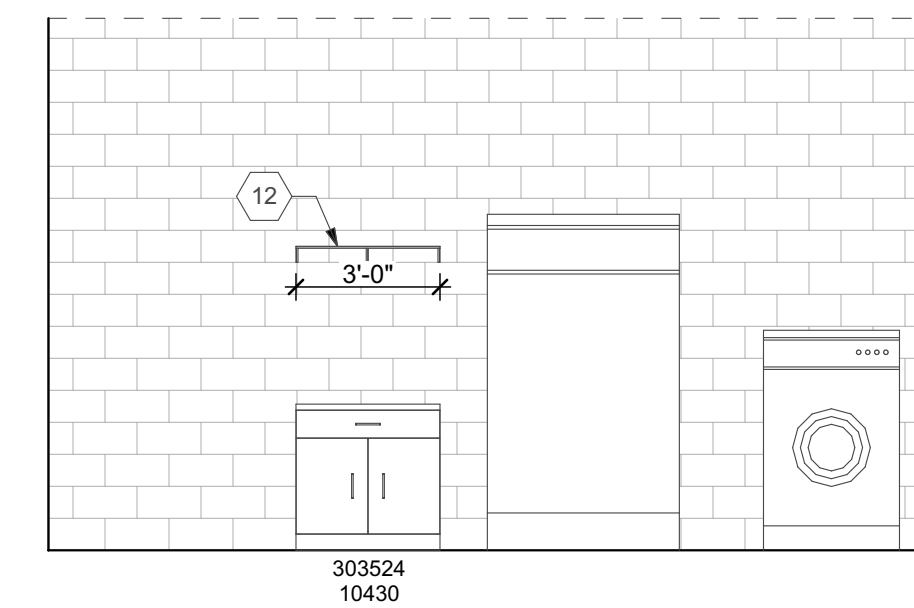
6 LOCKERS @ 110, 112
SCALE: 1/2" = 1'-0"



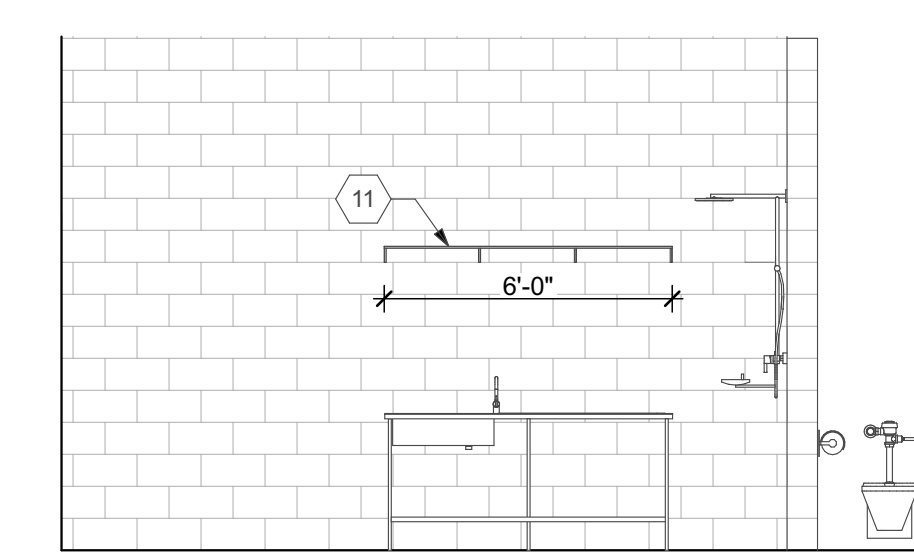
7 LOCKERS @ 108, 111, 113
SCALE: 1/2" = 1'-0"



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



9 N HEAVY DECON
SCALE: 1/4" = 1'-0"



10 S HEAVY DECON
SCALE: 1/4" = 1'-0"

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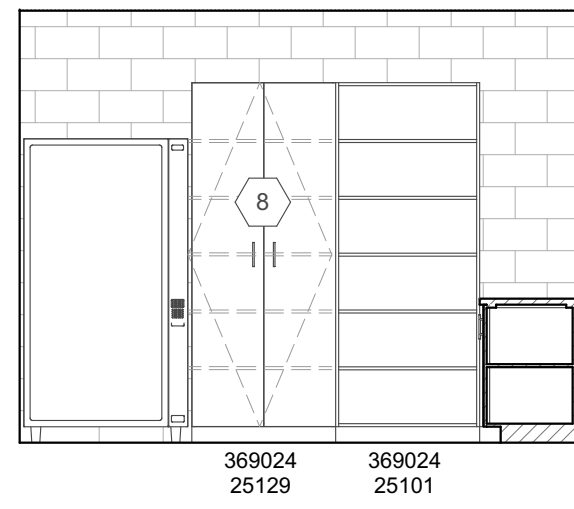
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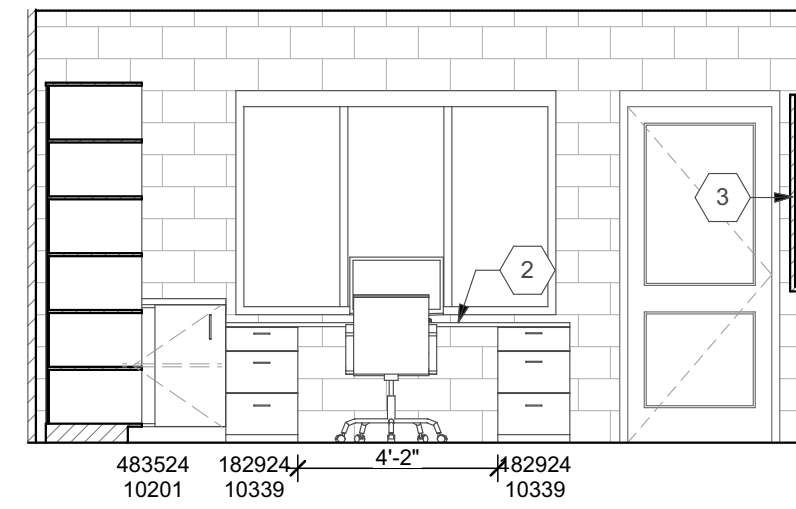
INTERIOR ELEVATIONS

A9.2

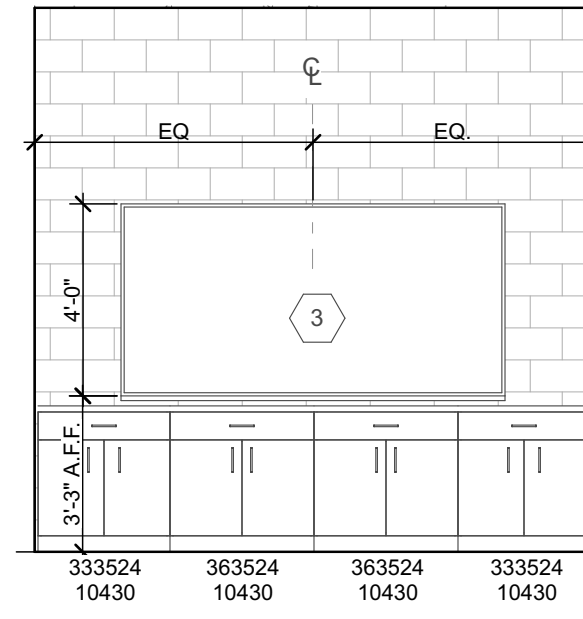
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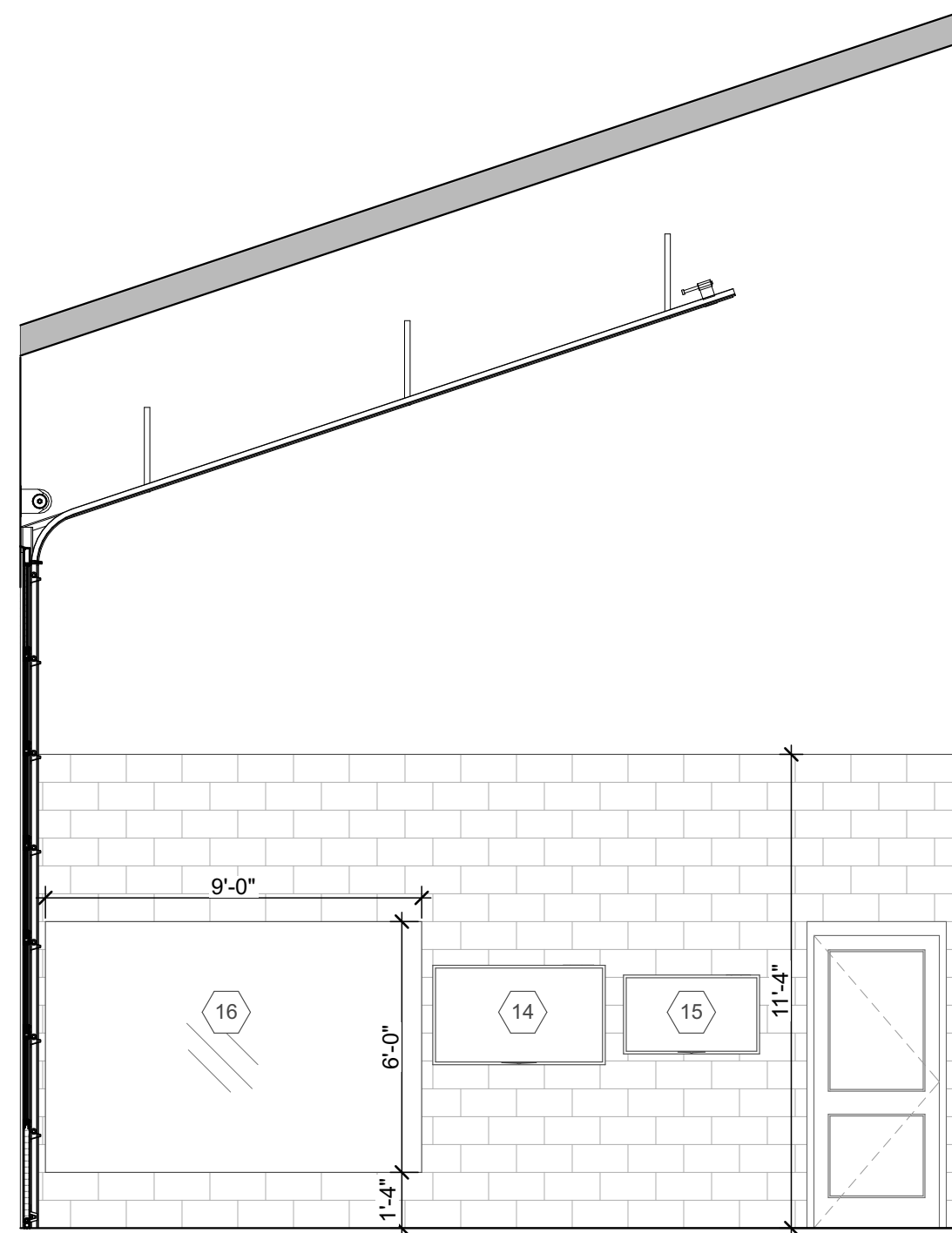
1
A9.3 **117 S REPORT ROOM**
SCALE: 1/4" = 1'-0"



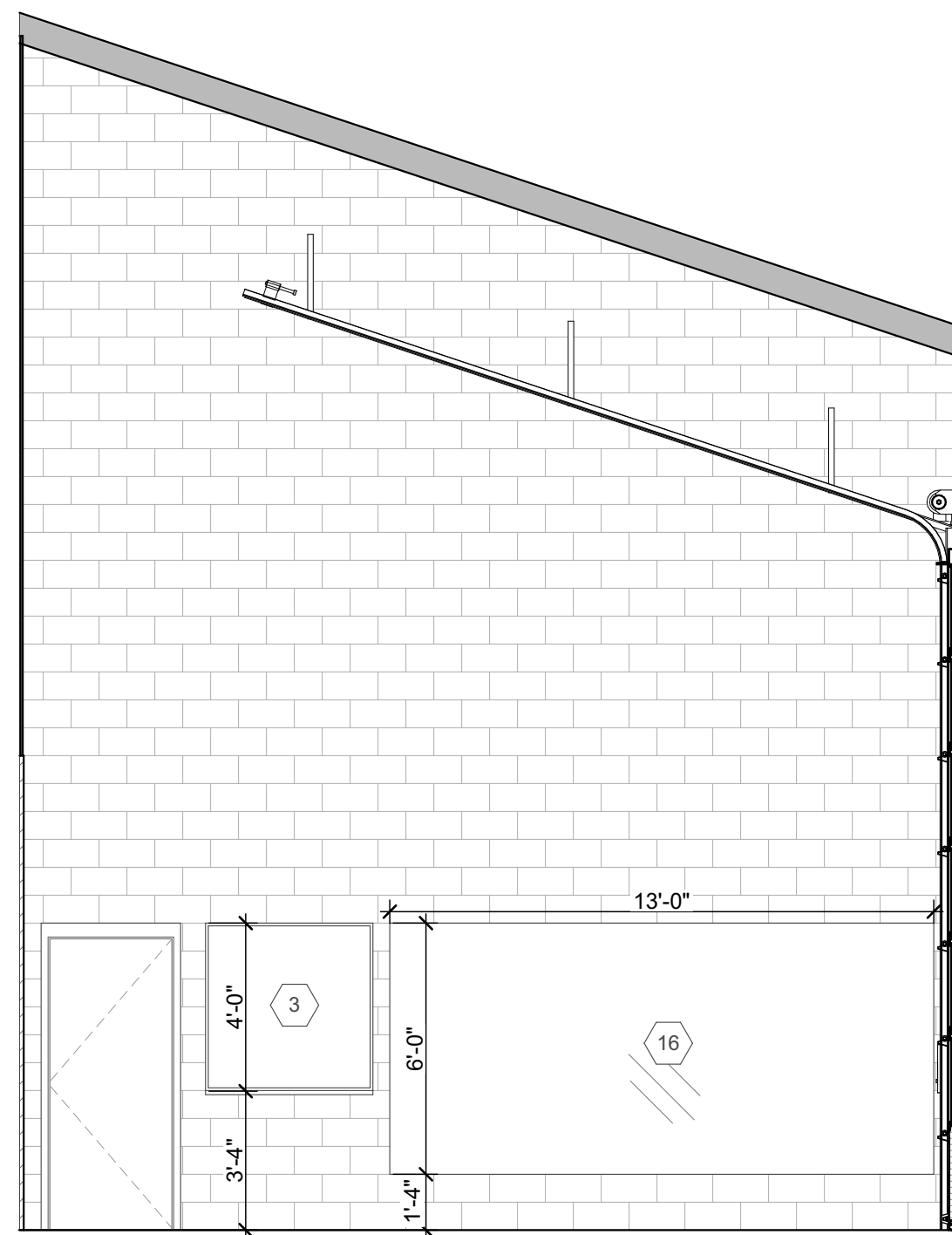
2
A9.3 **117 W REPORT ROOM**
SCALE: 1/4" = 1'-0"



3
A9.3 **S RADIO ALCOVE**
SCALE: 1/4" = 1'-0"



4
A9.3 **124 E WEIGHT ROOM**
SCALE: 1/4" = 1'-0"



5
A9.3 **124 W WEIGHT ROOM**
SCALE: 1/4" = 1'-0"

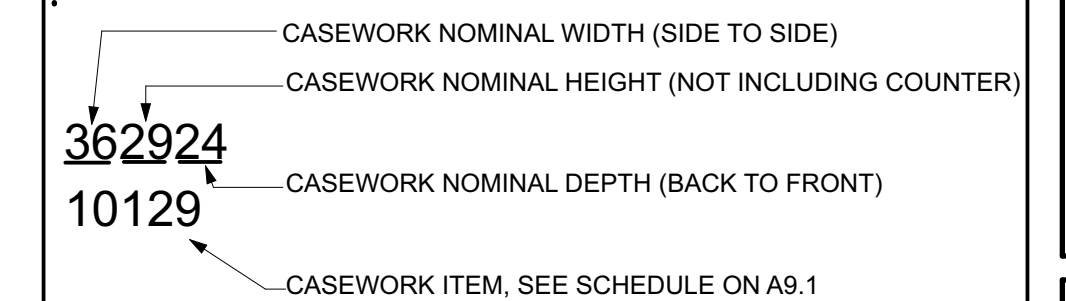
INTERIOR ELEVATION NOTES

- ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- CABINET FILLER, SIZE AS REQUIRED.
 - PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
 - WHITE BOARD, REFER TO SPECIFICATIONS.
 - TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
 - STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
 - FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7.
 - FIELD VERIFY WITH OWNER / ARCHITECT.
 - CHASE AROUND DUCT.
 - PROVIDE LOCK ON CASEWORK, REFER TO CASEWORK SCHEDULE.
 - TOILETRY NICHE, REFER TO SPECIFICATIONS.
 - WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
 - PROVIDE BLOCKING FOR FUTURE SHOWER SEAT.
 - WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT.
 - 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ARCHITECT. 60" A.F.F. U.N.O.
 - MIRROR, REFER TO SPECIFICATIONS.

ELEVATION GENERAL NOTES

- VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.
- REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.
- PROVIDE ANY NECESSARY BLOCKING.
- COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND



FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG
REGISTERED ARCHITECT
8533

Daniel J. Freytag
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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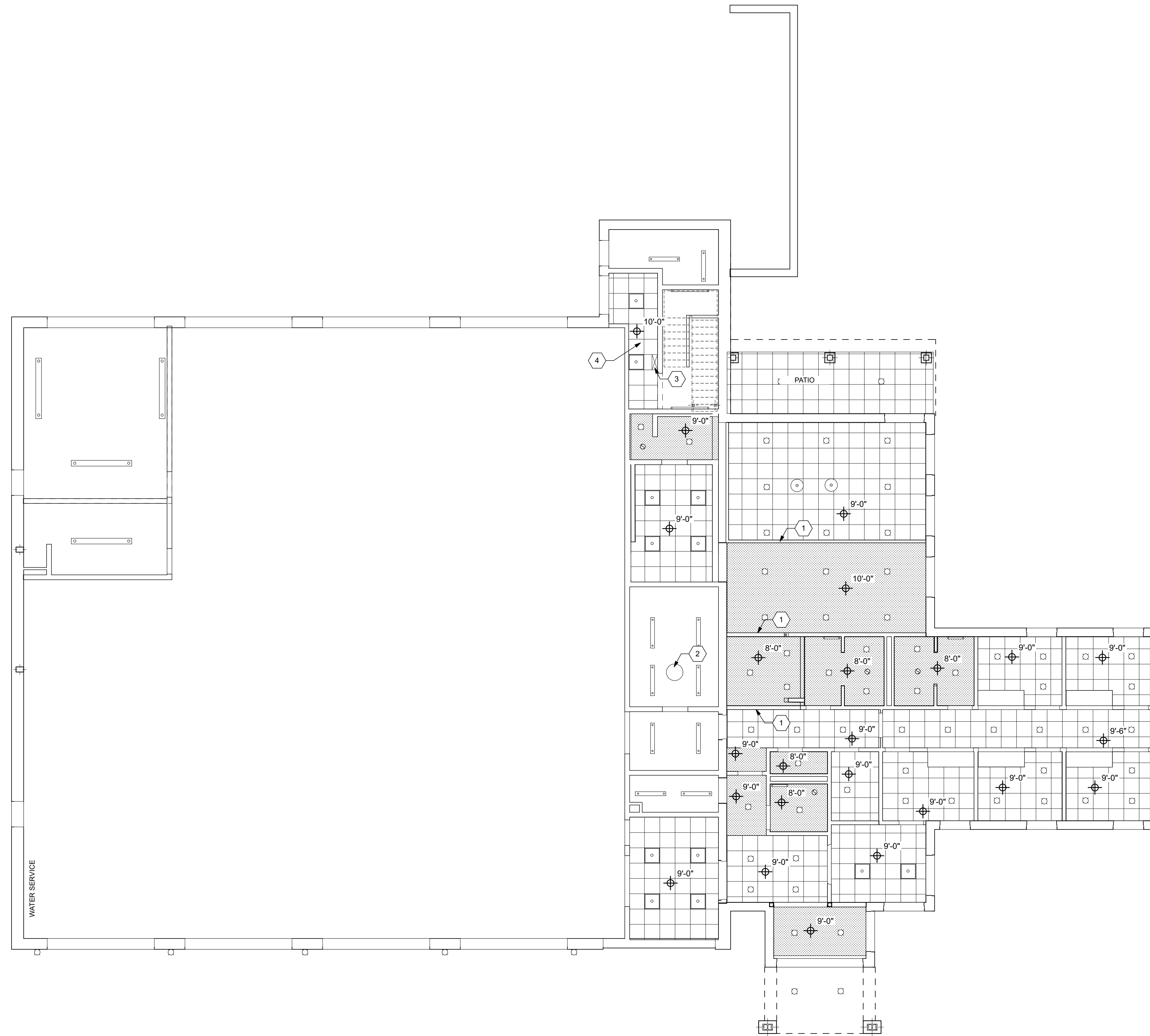
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

COMM. NUMBER	DATE
2207.02	11/22/24
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INTERIOR ELEVATIONS

A9.3

PLOT DATE: 12/24/24 @ 10:08 AM LAYOUT: A10.10.1: REFLECTED CEILING PLAN FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud Software as a Service\231103 Fire Station CD



1
A10.1

FIRST FLOOR REFLECTED CEILING PLAN

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



REFLECTED CEILING NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. PAINT BULKHEAD ACCENT COLOR.
2. MANHOLE LOCATED IN CEILING.
3. OPENING FOR COMPRESSED AIR DROP.
4. METAL SUSPENSION SYSTEM WITH HIGH HUMIDITY FINISH.

REFLECTED CEILING GENERAL NOTES

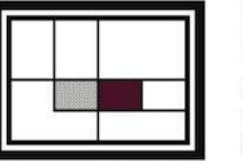
- A. COORDINATE CEILING INSTALLATION WITH PLACEMENT OF LIGHT FIXTURES AND OTHER CEILING PENETRATIONS OR CEILING MOUNTED EQUIPMENT, INCLUDING FIRE SUPPRESSION SYSTEM COMPONENTS AND HVAC DEVICES.
- B. REFER TO H.V.A.C. DRAWINGS FOR LOCATIONS AND SIZES OF CEILING MOUNTED AIR DEVICES.
- C. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE TYPES.
- D. REFER TO ROOM FINISH SCHEDULE FOR MATERIAL TYPES AND FINISH.
- E. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF ROOF STRUCTURE MEMBERS.
- F. FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO INSTALLATION OF CEILING SYSTEMS.

REFLECTED CEILING PLAN LEGEND

- C110** ROOM DESIGNATION NUMBER
- 9'-2" CEILING HEIGHT TO FINISH SURFACE A.F.F.
- RECESSED CEILING 2' x 2' FIXTURE
- RECESSED CAN LIGHT
- SUSPENDED LIGHT FIXTURE
- WALL SCONCE
- SUSPENDED PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- RECESSED EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
- 2X2 ACOUSTIC CEILING TILE
- GYPSUM DRYWALL CEILING, SUSPENDED GYPSUM CEILING, OR GYPSUM BULKHEAD
- CEILING FAN. REFER TO PROJECT MANUAL
- CEILING DEVICES. REFER TO MECHANICAL DRAWINGS

NOTE:
REFER TO ROOM FINISH SCHEDULE AND PROJECT MANUAL FOR CEILING TYPES.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS



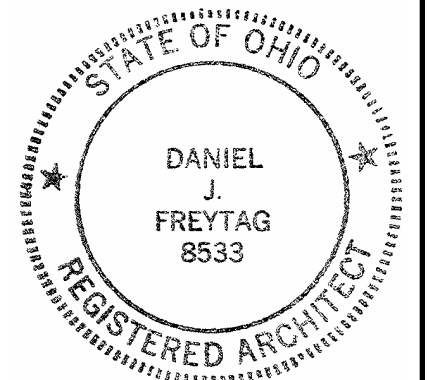
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Daniel J. Freytag, License #8533
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REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING

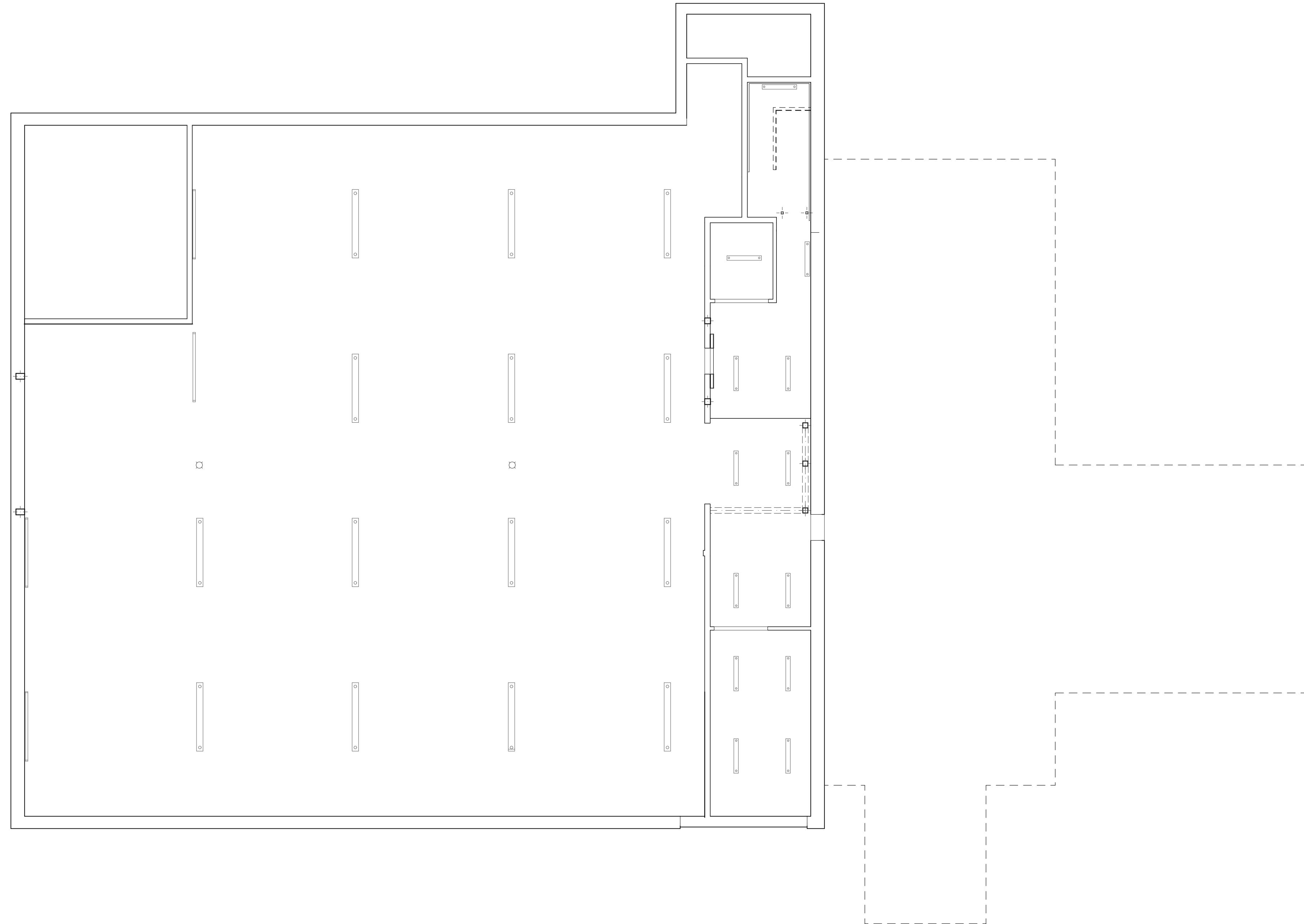
COMM. NUMBER	DATE
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AF/RS	DF

CEILING PLAN

A10.1

PLOT DATE: 12/24/24 @ 10:08 AM LAYOUT: A10.2 REFLECTED CEILING - MEZZANINE REFLECTED CEILING - FILE NAME: 231103 Fire Station CD - FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



1
A10.2

MEZZANINE REFLECTED CEILING PLAN

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



REFLECTED CEILING NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. PAINT BULKHEAD ACCENT COLOR.
2. MANHOLE LOCATED IN CEILING.
3. OPENING FOR COMPRESSED AIR DROP.
4. METAL SUSPENSION SYSTEM WITH HIGH HUMIDITY FINISH.

REFLECTED CEILING GENERAL NOTES

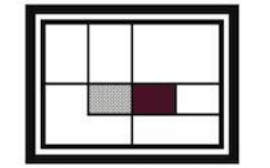
- A. COORDINATE CEILING INSTALLATION WITH PLACEMENT OF LIGHT FIXTURES AND OTHER CEILING PENETRATIONS OR CEILING MOUNTED EQUIPMENT, INCLUDING FIRE SUPPRESSION SYSTEM COMPONENTS AND HVAC DEVICES.
- B. REFER TO H.V.A.C. DRAWINGS FOR LOCATIONS AND SIZES OF CEILING MOUNTED AIR DEVICES.
- C. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE TYPES.
- D. REFER TO ROOM FINISH SCHEDULE FOR MATERIAL TYPES AND FINISH.
- E. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF ROOF STRUCTURE MEMBERS.
- F. FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO INSTALLATION OF CEILING SYSTEMS.

REFLECTED CEILING PLAN LEGEND

- C110** ROOM DESIGNATION NUMBER
-
- RECESSED CEILING 2' x 2' FIXTURE
- RECESSED CAN LIGHT
- SUSPENDED LIGHT FIXTURE
- WALL SCONCE
- SUSPENDED PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- RECESSED EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
- 2X2 ACOUSTIC CEILING TILE
- GYPSUM DRYWALL CEILING, SUSPENDED GYPSUM CEILING, OR GYPSUM BULKHEAD
- CEILING FAN. REFER TO PROJECT MANUAL
- CEILING DEVICES. REFER TO MECHANICAL DRAWINGS

NOTE:
REFER TO ROOM FINISH SCHEDULE AND PROJECT MANUAL FOR CEILING TYPES.

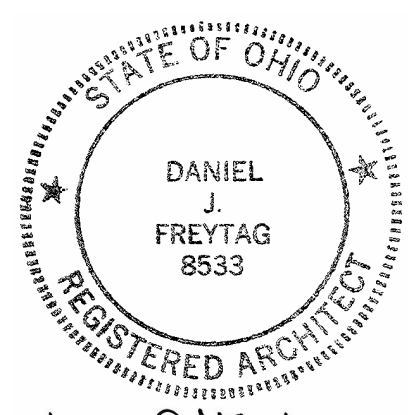
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REVISIONS
STORM SHELTER REVIEW
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2207.02	11/22/24
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MEZZANINE REFLECTED CEILING

A10.2

GENERAL STORM SHELTER NOTES

DESIGN CRITERIA:	COMMUNITY TORNADO
TYPE OF STORM SHELTER:	
MINIMUM SOIL BEARING PRESSURE:	4,000 PSF
DESIGN RAINFALL RATE:	3.23 IN/HR
ROOF LIVE LOADS:	
-SHELTER ROOF	100 PSF
-COLLAPSE / LAYDOWN	+10 PSF
WIND LOADS:	
-BASIC WIND SPEED (Vw)	250 MPH
-EXPOSURE CATEGORY	EXPOSURE C
-INTERNAL PRESSURE COEFF. (Gip)	+/- 0.55
-TOPOGRAPHIC FACTOR (Kzt)	1.0
-DIRECTIONALITY FACTOR (Kd)	1.0

2. THE STORM SHELTER AREA HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF ICC 500-2014, "STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS".
3. IMPACT RESISTANCE:
- WALL AND ROOF SYSTEMS HAVE BEEN SELECTED FOR DEBRIS IMPACT RESISTANCE TESTED IN ACCORDANCE WITH ASTM E 1886. SEE THE "SUMMARY ON DEBRIS IMPACT TESTING OF BUILDING ASSEMBLIES" BY TEXAS TECH UNIVERSITY (8/4/1), DATED AUGUST 2006 FOR REFERENCED TEST SPECIMEN NUMBERS.
 - WALL SYSTEM IS TO BE 8 INCH MINIMUM REINFORCED CONCRETE MASONRY WITH #4 MIN. VERT. REINFORCING BARS GROUDED INTO EVERY CELL. ASSEMBLY HAS BEEN TESTED FOR A 15-POUND 24" TRAVELING AT 100 MPH PER FT U.O.C. A.S. TEST NO. 1.
 - ROOF SYSTEM IS TO BE 4-INCH MINIMUM REINFORCED CONCRETE WITH #4 MIN. REINFORCING BARS AT 12 INCHES O.C. EACH WAY. ASSEMBLY HAS BEEN TESTED FOR A 15-POUND 24" TRAVELING AT 67 MPH PER FT U.O.C. A.S. TEST NO. 37.

4. OPENINGS AND WALL JOINTS:
- WINDOWS, DOORS, AND LOUVERS ARE TO BE SELECTED TO WITHSTAND THE DESIGN WIND LOADS SPECIFIED ABOVE, AND FOR DEBRIS IMPACT RESISTANCE TESTED IN ACCORDANCE WITH ASTM E 1886 FOR A 15-POUND 24" TRAVELING AT 100 MPH.
 - PROVIDE PLATE SHROUDS AS INDICATED AT ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) IN THE STORM SHELTER ENVELOPE EXCEEDING 3/16" SQUARE INCHES OR 2-1/16" DIAMETER.
 - CONTROL JOINTS IN MASONRY CONSTRUCTION MAY NOT EXCEED 3/8" INCH AND MUST BE SEALED IN ACCORDANCE WITH TMS 602, SECTION 2.5.A.

STORM SHELTER QUALITY ASSURANCE PLAN

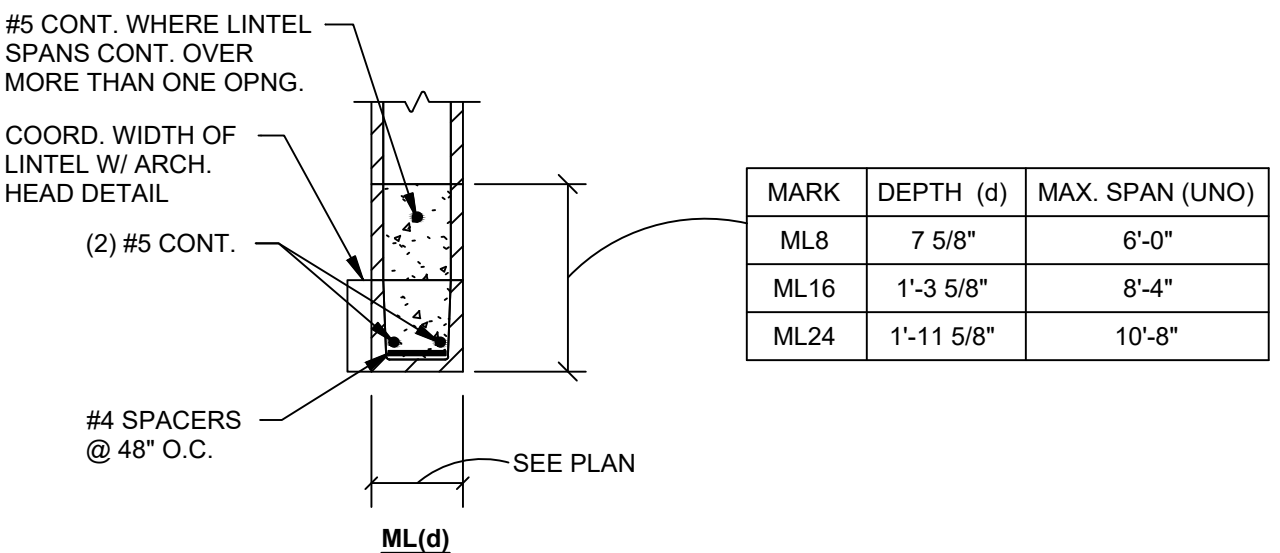
JGA PROJECT NAME: SIDNEY FIRE STATION No.2
JGA PROJECT NUMBER: 23.02.009

1. THE REQUIREMENTS SPECIFIED IN THIS QUALITY ASSURANCE PLAN ARE APPLICABLE TO ALL ELEMENTS WITHIN THE IDENTIFIED "STORM SHELTER" PORTION OF THE PROJECT. THESE REQUIREMENTS ARE EXTENDED TO ALL REFERENCED DETAILS AND ALL NOTED COMPONENTS THEREOF. SEE THE PLANS FOR AREA(S) DESIGNATED AS THE "STORM SHELTER" CONSTRUCTION.
2. PRIOR TO CONSTRUCTION OF THE STORM SHELTER PORTION OF THE PROJECT, THE OWNER IS TO RETAIN AN INDEPENDENT AGENCY TO PERFORM THE SPECIAL INSPECTIONS, TESTING, AND STRUCTURAL OBSERVATIONS REQUIRED IN THIS QUALITY ASSURANCE PLAN. WHERE APPLICABLE, INDIVIDUALS PERFORMING SPECIAL INSPECTIONS AND TESTING ARE TO BE QUALIFIED THROUGH RECOGNIZED INDUSTRY CERTIFICATION. INDIVIDUALS PERFORMING STRUCTURAL OBSERVATIONS ARE TO REGISTERED DESIGN PROFESSIONALS IN THE JURISDICTION OF THE PROJECT.
3. ON A REGULAR BASIS, THE SPECIAL INSPECTION AND STRUCTURAL OBSERVATION AGENCY SHALL SUBMIT WRITTEN REPORTS IDENTIFYING DEFICIENCIES IN THE STORM SHELTER CONSTRUCTION. THE CONTRACTOR/CM SHALL BE RESPONSIBLE FOR PROMPTLY CORRECTING ALL DEFICIENCIES INDICATED IN THESE WRITTEN REPORTS. AT THE COMPLETION OF THE STORM SHELTER CONSTRUCTION, THE AGENCY SHALL SUBMIT A STATEMENT INDICATING THAT ALL DEFICIENCIES IDENTIFIED DURING CONSTRUCTION HAVE BEEN PROPERLY ADDRESSED, AND THAT STRUCTURAL OBSERVATIONS HAVE BEEN REGULARLY PERFORMED. ALL REPORTS ARE TO BE SUBMITTED TO THE OWNER, ARCHITECT, CONSTRUCTION MANAGER, AND THE AUTHORITY HAVING JURISDICTION.
4. EACH CONTRACTOR RESPONSIBLE FOR CONSTRUCTING ELEMENTS OF THE STORM SHELTER SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER, ARCHITECT, CONSTRUCTION MANAGER, AND THE AUTHORITY HAVING JURISDICTION. PARTIES RESPONSIBLE FOR THIS STATEMENT INCLUDE, BUT ARE NOT LIMITED TO, THE SITE GRADING CONTRACTOR, CAST-IN-PLACE CONCRETE SUPPLIER AND CONTRACTOR, STRUCTURAL STEEL FABRICATOR AND ERECTOR, MASONRY CONTRACTOR, REINFORCING STEEL FABRICATOR AND IRON WORKERS, PRECAST MANUFACTURER AND ERECTOR, DOOR MANUFACTURER AND INSTALLER, AND OPENING PROTECTIVE DEVICE FABRICATOR AND ERECTOR. THIS STATEMENT IS TO INCLUDE THE FOLLOWING:
- ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS IN THE QUALITY ASSURANCE PLAN.
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
5. THE FOLLOWING SPECIAL INSPECTIONS AND TESTING OF THE STORM SHELTER CONSTRUCTION ARE TO BE PERFORMED AS PART OF THIS QUALITY ASSURANCE PLAN. THESE REQUIREMENTS ARE IN ADDITION TO THE TESTING AND INSPECTIONS REQUIRED FOR THE REMAINDER OF THE BUILDING:

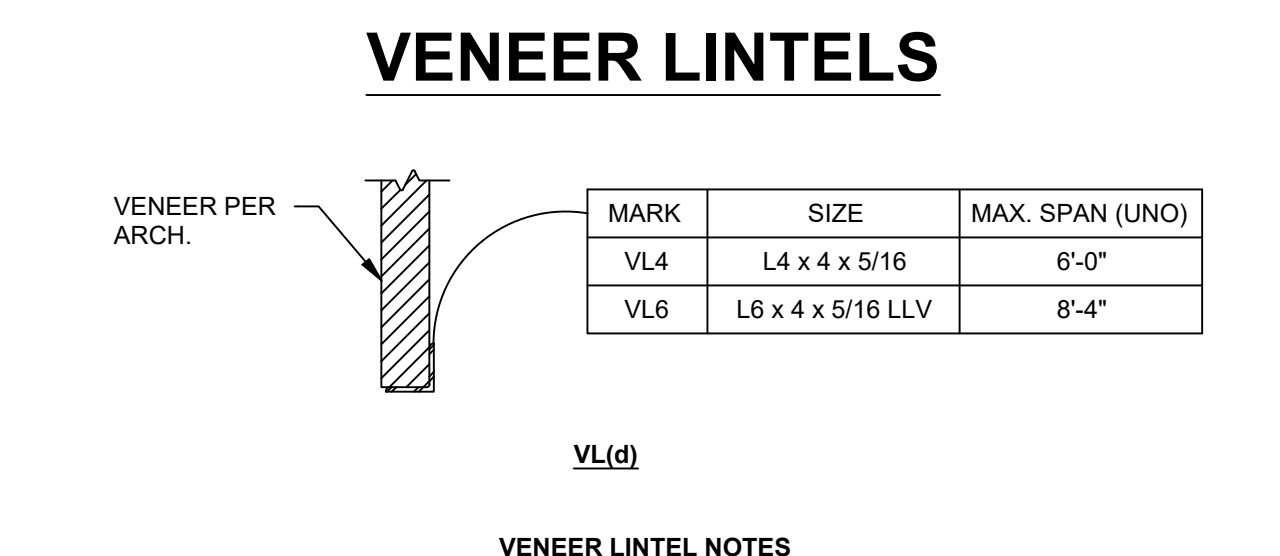
- SOILS**
i">
 - PERIODICALLY INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY AND CONSISTENCY WITH GEOTECHNICAL REPORT. INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.
 - PERIODICALLY VERIFY DEPTH AND WIDTH OF FOUNDATION EXCAVATIONS.
 - CONCRETE (FOOTINGS, SLABS ON GRADE, CAPS/ROOFS)**
i">
 - PERIODICALLY INSPECT SIZE, SPACING, COVER, POSITIONING, AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.
 - PERIODICALLY INSPECT SIZE, POSITIONING, AND EMBEDMENT OF ANCHOR RODS, WELD PLATES, AND ALL OTHER CAST-IN EMBEDDED ITEMS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.
 - CONTINUOUSLY INSPECT SIZE, POSITIONING, EMBEDMENT, AND INSTALLATION OF POST-INSTALLED CHEMICAL AND MECHANICAL ANCHORS. VERIFY INSTALLATION PROCEDURE IS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PULL-TEST ANCHORS THAT ARE DEEMED SUSPECT DUE TO IMPROPER TORQUE AND/OR INADEQUATE EMBEDMENT DEPTH.
 - PERIODICALLY VERIFY USE OF PROPER MIX DESIGN.
 - PERIODICALLY VERIFY FORM WORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE BEING FORMED.
 - PERIODICALLY INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED. INSPECT CURING, COLD-WEATHER PROTECTION, AND HOT-WEATHER PROTECTION PROCEDURES.
 - PERIODICALLY SAMPLE AND TEST CONCRETE FOR COMPRESSIVE STRENGTH, SLUMP, AIR CONTENT, AND TEMPERATURE. SAMPLE EACH 50 CUBIC YARDS OF CONCRETE, OR FRACTION THEREOF, PLACED IN ANY ONE DAY.
 - MASONRY**
i">
 - CONTINUOUSLY INSPECT PROPORTIONING, MIXING, AND RETEMPERING OF MORTAR AND GROUT. INSPECT CONSTRUCTION OF MORTAR JOINTS INCLUDING TOOLING AND FILLING OF HEAD JOINTS.
 - CONTINUOUSLY INSPECT SIZE, LAYOUT, BONDING, GROUT SPACE, AND PLACEMENT OF MASONRY UNITS.
 - CONTINUOUSLY INSPECT PLACEMENT, SIZE, GRADE, POSITIONING, AND LAPPING OF REINFORCING STEEL.
 - CONTINUOUSLY INSPECT PLACEMENT AND CONSOLIDATION OF GROUT. INSPECT MASONRY CLEAN-OUTS FOR HIGH-LIFT GROUTING.
 - CONTINUOUSLY INSPECT SIZE, POSITIONING, AND EMBEDMENT OF ANCHOR RODS, WELD PLATES, AND ALL OTHER CAST-IN EMBEDDED ITEMS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.
 - CONTINUOUSLY INSPECT SIZE, POSITIONING, AND EMBEDMENT OF ANCHOR RODS, WELD PLATES, AND ALL OTHER MECHANICAL ANCHORS. VERIFY INSTALLATION PROCEDURE IS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PULL-TEST ANCHORS THAT ARE DEEMED SUSPECT DUE TO IMPROPER TORQUE AND/OR INADEQUATE EMBEDMENT DEPTH.
 - CONTINUOUSLY INSPECT COLD-WEATHER PROTECTION AND HOT-WEATHER PROTECTION PROCEDURES. VERIFY THAT WALL CAVITIES ARE PROTECTED AGAINST PRECIPITATION.
 - CONTINUOUSLY SAMPLE AND TEST COMPRESSIVE STRENGTH OF MORTAR AND GROUT CUBE SAMPLES. TEST COMPRESSIVE STRENGTH OF ASSEMBLED MASONRY PRISMS.
 - OPENING PROTECTIVE DEVICES**
i">
 - CONTINUOUSLY INSPECT SHOP-FABRICATED OPENING PROTECTIVE Baffles PRIOR TO INSTALLATION TO VERIFY THAT COMPONENT SIZES AND WELDS MATCH DRAWINGS AND SPECIFICATIONS.
 - CONTINUOUSLY INSPECT INSTALLATION OF DOOR ANCHORAGES AND ANCHORAGE OF PROTECTIVE Baffles FOR OPENINGS.
 - UPON COMPLETION, VERIFY THE PROPER OPERATION OF DOORS AND SHUTTERS. CONFIRM MAXIMUM ALLOWABLE GAPS AT THRESHOLDS, SILLS, JAMBS, AND HEADS OF OPENING LEAVES.
6. THE FOLLOWING STRUCTURAL OBSERVATIONS OF THE STORM SHELTER CONSTRUCTION ARE TO BE PERFORMED AS PART OF THIS QUALITY ASSURANCE PLAN. THESE OBSERVATIONS ARE TO VISUALLY VERIFY THAT THE IDENTIFIED ASSEMBLIES ARE BEING BUILT IN GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ADDITIONAL OBSERVATIONS OF THE CONSTRUCTION ARE TO BE PERFORMED AT THE OBSERVER'S DISCRETION.
- FOUNDATIONS**
i">
 - VERIFY THAT DOWEL BARS IN FOUNDATIONS AND SLABS ARE BEING PROVIDED WHERE INDICATED.
 - VERIFY THAT FOUNDATIONS HAVE BEEN BUILT INDEPENDENTLY OF HOST BUILDING AND THAT PROPER BOND BREAK MATERIAL HAS BEEN PLACED BETWEEN CONCRETE COURSES.
 - VERIFY THAT ANCHOR BOLTS HAVE BEEN PROVIDED WITH SUFFICIENT LENGTHS TO RECEIVE FURTHER CONSTRUCTION. VERIFY THAT ANCHORS HAVE NOT BEEN BENT OR OTHERWISE MODIFIED.
 - WALLS**
i">
 - VERIFY THAT OPENINGS ARE BEING BUILT AS INDICATED.
 - VERIFY THAT SUFFICIENT LAP LENGTHS ARE BEING PROVIDED BETWEEN SEQUENCES OF CONSTRUCTION.
 - VERIFY THAT CAST-IN AND POST-INSTALLED ANCHORS HAVE SUFFICIENT LENGTH TO RECEIVE FURTHER CONSTRUCTION. VERIFY THAT ANCHORAGES HAVE NOT BEEN BENT OR OTHERWISE MODIFIED.
 - VERIFY THAT PROPER CAST-IN ITEMS FOR DOORS AND SHUTTERS ARE BEING PROVIDED.
 - VERIFY THAT VERTICAL CONTROL JOINTS ARE 3/8" OR LESS IN WIDTH AND HAVE BEEN FILLED ACCORDING TO TMS 602 FOR MASONRY OR ASTM C920 FOR CONCRETE.
 - VERIFY THAT BOND PATTERN AT CORNERS HAS BEEN CONSTRUCTED AS INDICATED.
 - CAPS**
i">
 - VERIFY THAT ANCHORAGES BETWEEN THE STORM SHELTER WALLS AND CAPS ARE BEING PROVIDED AS INDICATED.
 - VERIFY THAT MEMBER BRACING, CONFIGURATION, AND CONNECTIONS HAVE BEEN PROVIDED AS INDICATED.
 - VERIFY FILING OF GAPS AND JOINTS BETWEEN ROOF FRAMING MEMBERS, AND AT BEARING LOCATIONS.
 - OPENINGS**
i">
 - VERIFY THAT POST-INSTALLED ANCHORAGES OF OPENING PROTECTIVE DEVICES HAVE BEEN INSTALLED.
 - VERIFY THAT PROTECTIVE Baffles HAVE BEEN PROVIDED FOR ALL PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE.

ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
BI or BO	BOTTOM OF BOTTOM FLANGE BRACE
BFB	BUILDING
BLDG	BEAM
BM	BOTTOM
CMF	COLD-FORMED METAL FRAMING
CMFT	COLD-FORMED METAL TRUSS
CJ	CONTROL OR CONSTRUCTION JOINT
CL	CLEAR
CLR	CONSTRUCTION MANAGER
CM	CONCRETE MASONRY UNIT
CMU	COLUMN
COL	CONCRETE
CONC	CONTINUOUS
CONT	COORDINATE
COORD	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ENG	ENGINEER
EW	EACH WAY
EXP	EXPANSION
FN	FOUNDATION
FIN	FINISH OR FINISHED
FLR	FLOOR
FTG	FOOTING
FRTW	FIRE-RETARDANT TREATED WOOD
FV	FIELD VERIFY
GA	GAGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
HC	HOLLOW CORE
HORIZ	HORIZONTAL
ID	INSIDE DIMENSION
F	FACE
INT	INTERIOR
JST	JOIST
JT	JOINT
KB	KICKER BRACE
L	ANGLE
LMF	LIGHT GAGE METAL FRAMING
LLB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPP	OPPOSITE
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENERS
PC	PRECAST
PMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
REINF	REINFORCING
REQ'D	REQUIRED
SCHED	SCHEDULE
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SL	SLOPED
SLB	SHORT LEG BACK-TO-BACK
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SY	SQUARE YARD
SYM	SYMMETRICAL
TI or TO	TOP OF
TAB	TOP AND BOTTOM
TEMP	TEMPORARY OR TEMPORARY
TYP	TONGUE AND GROOVE
TYP	TYPICAL
UN	UNLESS NOTED
UNB	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
W	WIDE FLANGE
WI	WITH
WO	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD



- MASONRY LINTEL NOTES**
- FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
 - FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
 - LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
 - MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
 - BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL.
 - BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
 - 14\"/>



- VENEER LINTEL NOTES**
- FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
 - ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
 - PROVIDE 6\"/>

COMPONENTS AND CLADDING WIND LOAD SCHEDULE

WALL ELEMENTS

TRIB AREA	POSITIVE PRESSURE	NEGATIVE PRESSURE	NEGATIVE WITHIN 7 FT. OF CORNERS
10 SQ. FT.	36 PSF	46 PSF	49 PSF
20 SQ. FT.	35 PSF	38 PSF	46 PSF
50 SQ. FT.	33 PSF	36 PSF	41 PSF
100 SQ. FT.	31 PSF	34 PSF	38 PSF
500 SQ. FT.	27 PSF	30 PSF	30 PSF

ROOF ELEMENTS

TRIB AREA	UPLIFT PRESSURE	UPLIFT WITHIN 10 FT. OF EDGES	UPLIFT WITHIN 10 FT. OF CORNERS
10 SQ. FT.	33 PSF	60 PSF	86 PSF
20 SQ. FT.	32 PSF	53 PSF	80 PSF
50 SQ. FT.	31 PSF	47 PSF	73 PSF
100 SQ. FT.	30 PSF	44 PSF	67 PSF

- U.O.C. PRESSURE SCHEDULE NOTES:**
- LINEAR INTERPOLATION IS ACCEPTABLE FOR TRIBUTARY AREAS BETWEEN THOSE SHOWN.
 - LOADS GIVEN ARE ULTIMATE LOADS OBTAINED FROM ASCE 7-10. MULTIPLY VALUES BY 0.6 TO OBTAIN SERVICE-LEVEL LOADS.

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS

BAR SIZE	3/4\"/>
#4	3'-11\"/>

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS

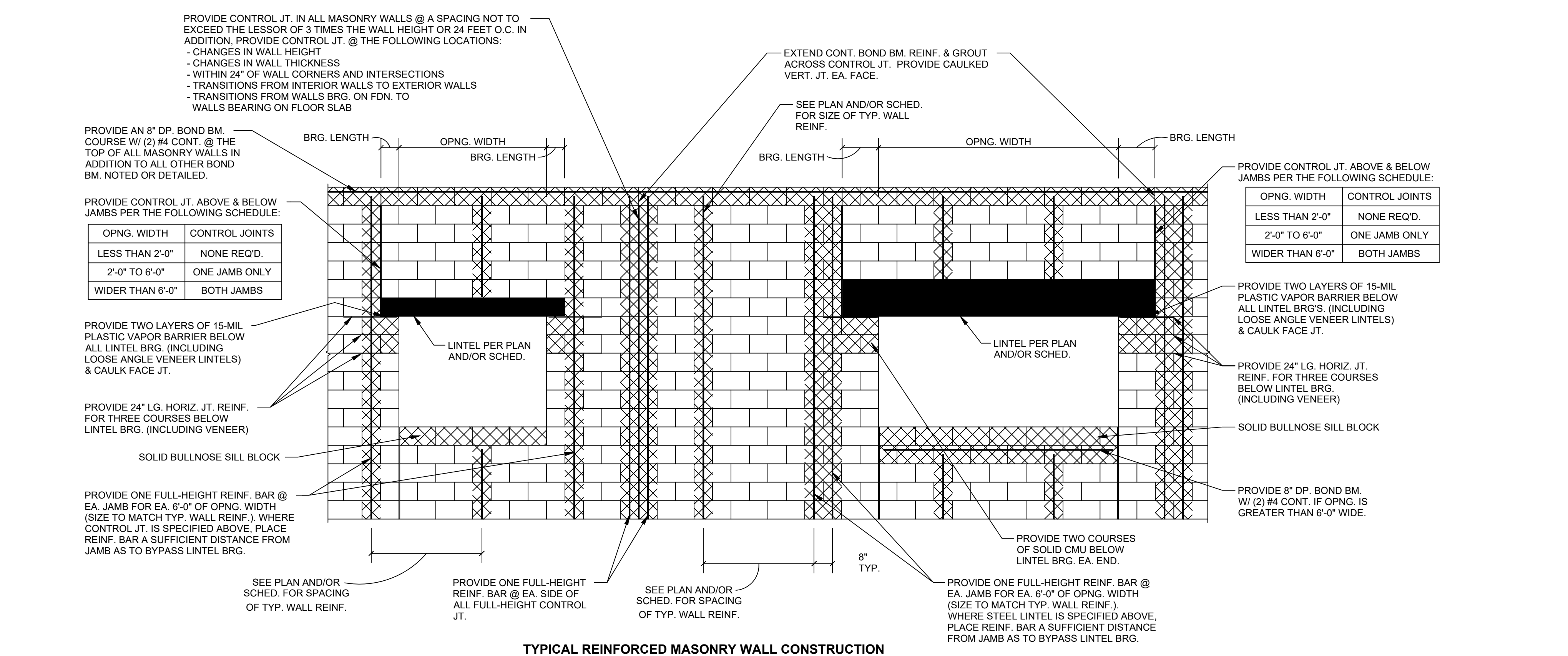
BAR SIZE	3/4\"/>
#4	2'-8\"/>

- TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12\"/>

REINFORCING COVER/TOLERANCE (#3 - #11 BARS)

EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS: - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	3/4" 1-1/2"	-1/4", +3/8" -1/4", +1/2"

- ** INDICATES TOLERANCE TOWARDS MEMBER FACE.
*** INDICATES TOLERANCE AWAY FROM MEMBER FACE.



TYPICAL REINFORCED MASONRY WALL CONSTRUCTION

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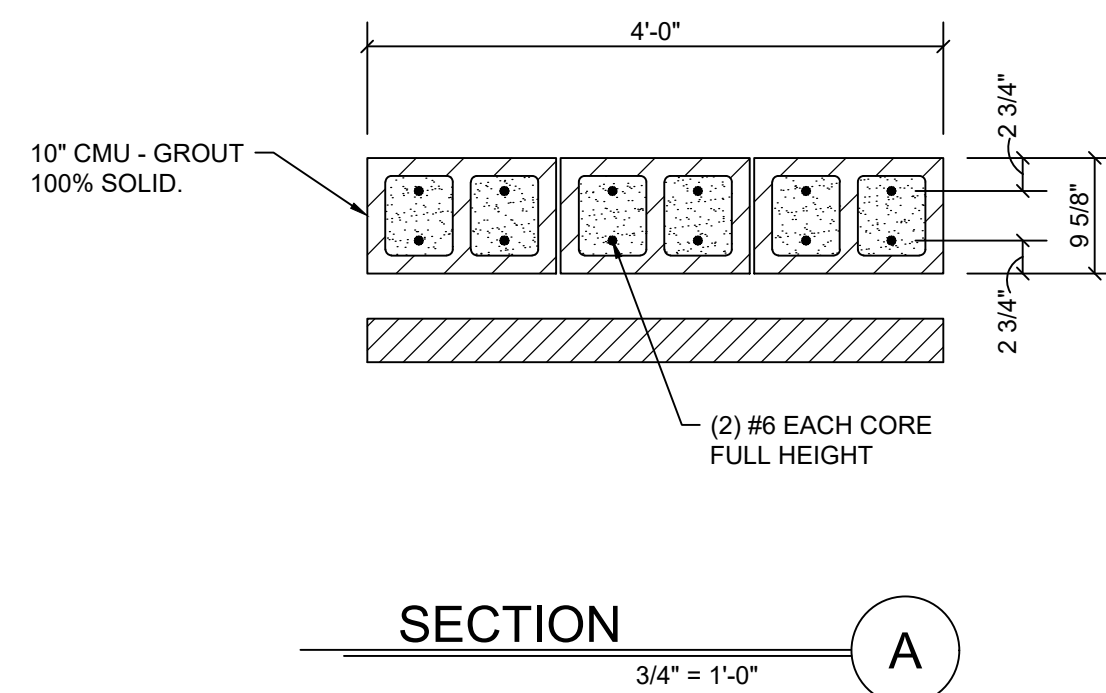
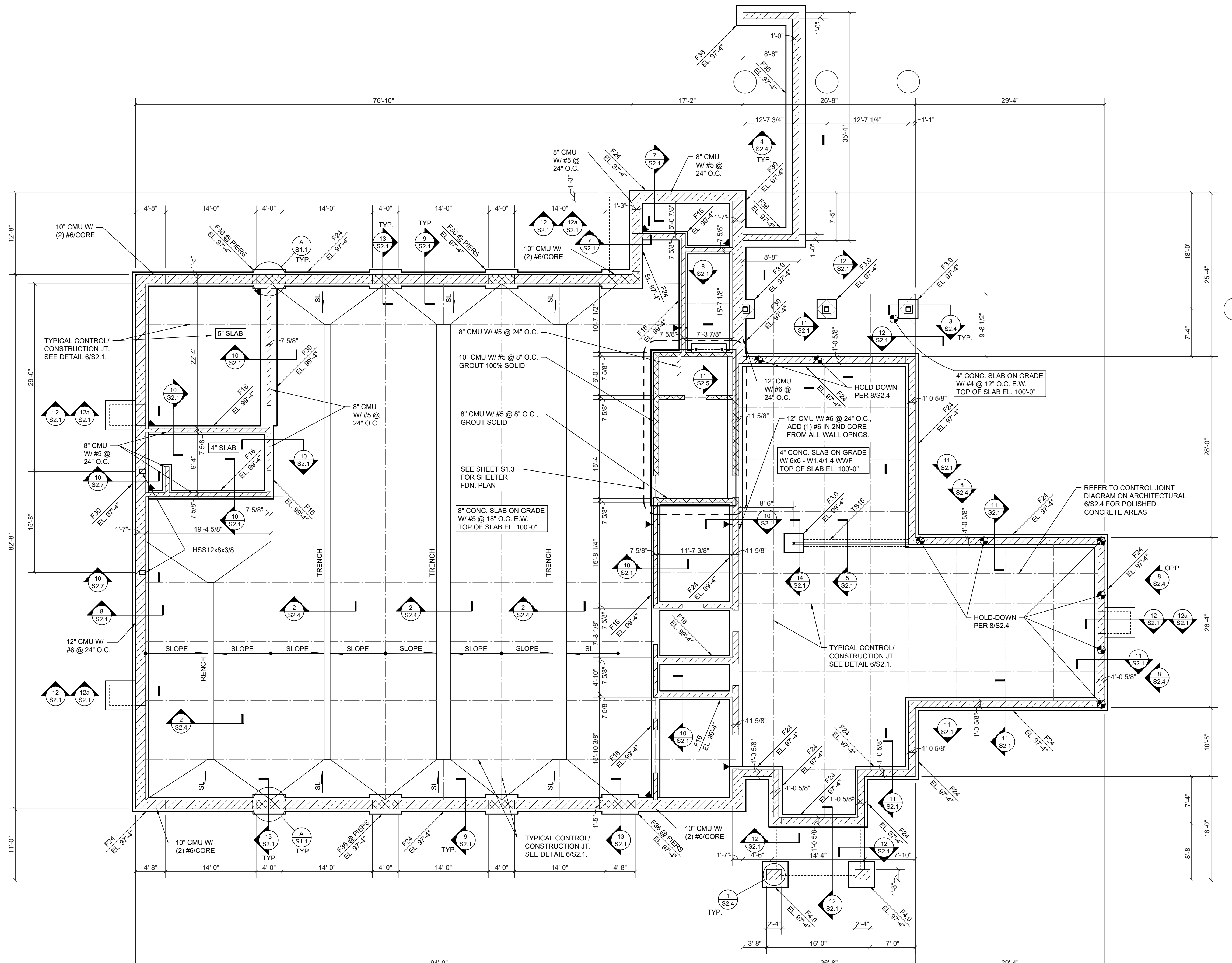
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GENERAL STRUCTURAL NOTES

S0.1



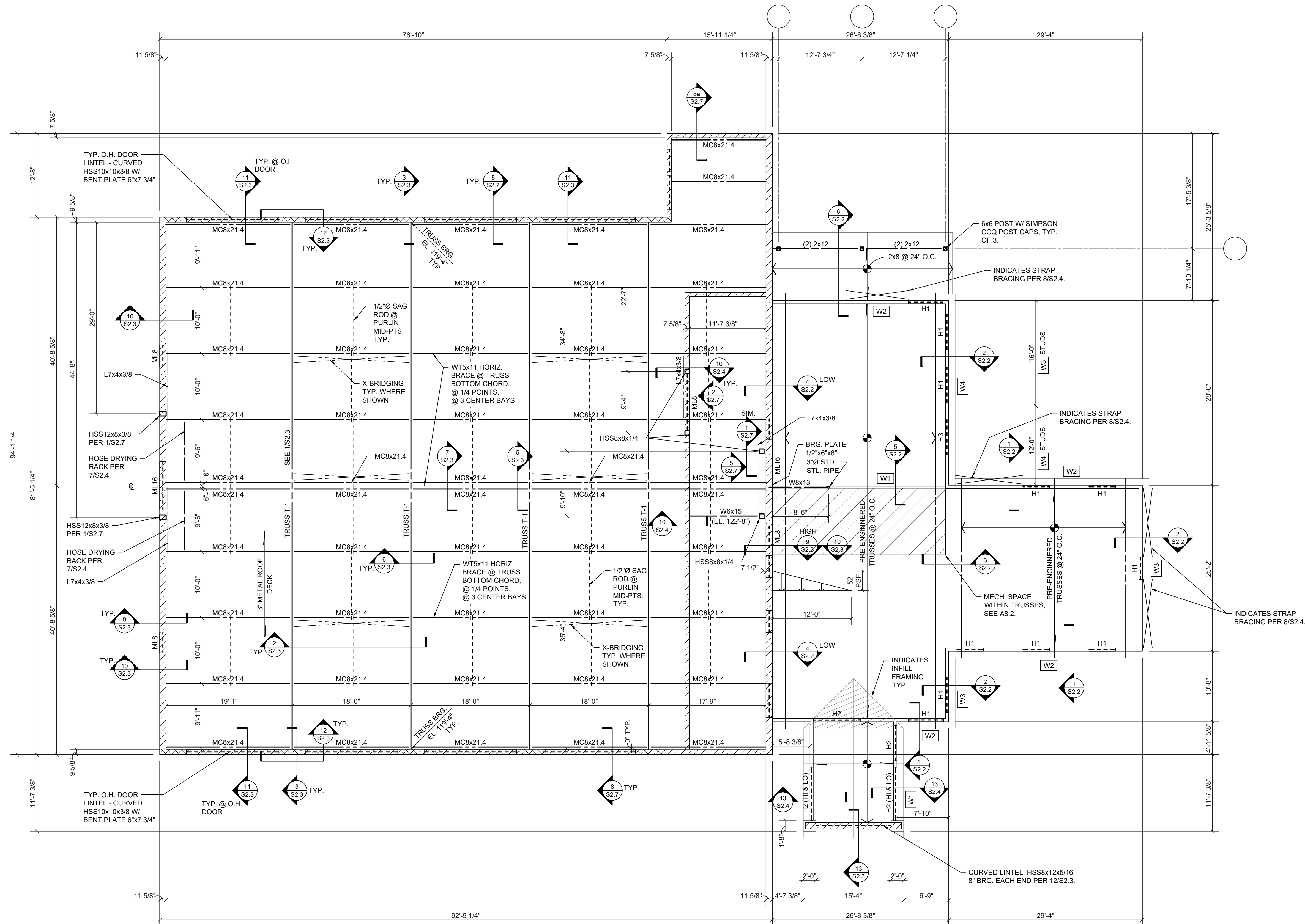
FOUNDATION PLAN

- 1/8" = 1'-0"
- FOUNDATION NOTES**
- DESIGN SOIL BEARING PRESSURE = 4,000 PSF. SEE SO. 0 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVEREXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE OR ENGINEERED FILL UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
 - KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
 - BOTTOM OF FOOTINGS ARE TO BE AT LEAST 36-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
 - ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
 - INDICATES FOOTING STEP PER SECTION 11S2.4. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
 - SEE ELEVATION ON SO. 1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION.
 - PROVIDE CORNER BARS AT ALL FOOTING INTERSECTIONS PER DETAIL 12S2.4.
 - SEE SECTIONS S2.4 AND S2.3.4 FOR TYPICAL INTERIOR AND OUTDOOR MECHANICAL EQUIPMENT PADS.
 - SEE SHEETS SO. 0 AND SO. 1 FOR GENERAL STRUCTURAL INFORMATION.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" WD. x 1'-0" DP.	(2) #4 CONT. BOT.
F24	2'-0" WD. x 1'-0" DP.	(2) #4 CONT. BOT.
F30	2'-6" WD. x 1'-0" DP.	(3) #4 CONT. BOT.
F36	3'-0" WD. x 1'-0" DP.	(3) #4 CONT. #4 @ 12" O.C. TRANS.
TS16	1'-4" x 8" DP. THICKENED SLAB	(2) #4 CONT. BOT.

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3.0	3'-0" x 3'-0" x 1'-0" DP.	(3) #4 E.W. BOT.
F4.0	4'-0" x 4'-0" x 1'-0" DP.	(4) #4 E.W. BOT.

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ROOF FRAMING PLAN

1/8" = 1'-0"



ROOF FRAMING NOTES

- DESIGN LIVE LOADS:
 FLAT ROOF SNOW 24 PSF + DRIFT
 WIND (ASD NET UPLIFT) 16.5 PSF
- ROOF CONSTRUCTION:
 3" x 20 GAGE METAL ROOF DECK ON PURLINS; OR
 5/8" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2" FRAMING
 UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
- INDICATES SNOW DRIFT ROOF LOADING. JOISTS HAVE BEEN SIZED FOR THE LOAD SHOWN UNLESS NOTED OR SCHEDULED OTHERWISE. WOOD TRUSSES ARE TO BE DESIGNED TO ACCOMMODATE ADDITIONAL LOADING. PRE-ENGINEERED METAL BUILDING STRUCTURE IS TO BE DESIGNED TO ACCOMMODATE ADDITIONAL LOADING.
- INDICATES CFMF HEADER. SEE 12S2.2 & HEADER SCHEDULE.
- INDICATES WOOD FRAMED SHEARWALL HOLDDOWN. HOLDDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING.
- SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
- SEE SHEET 80.0 FOR GENERAL STRUCTURAL INFORMATION AND LINTELS.

HEADER SCHEDULE - CFMF

MARK	SIZE	JAMB STUDS	#10 CONNECTION SCREWS
H1	(2) 600S162-54	(2) 600S162-43	8
H2	(2) 800S162-54	(2) 600S162-43	8
H3	(2) 600S162-54	(4) 600S162-43	8

CFMF WALL SCHEDULE

MARK	SIZE
W1	362S162-33 @ 16" O.C.
W2	600S162-33 @ 16" O.C.
W3	600S162-43 @ 16" O.C.
W4	(2) 600S162-43 @ 16" O.C.

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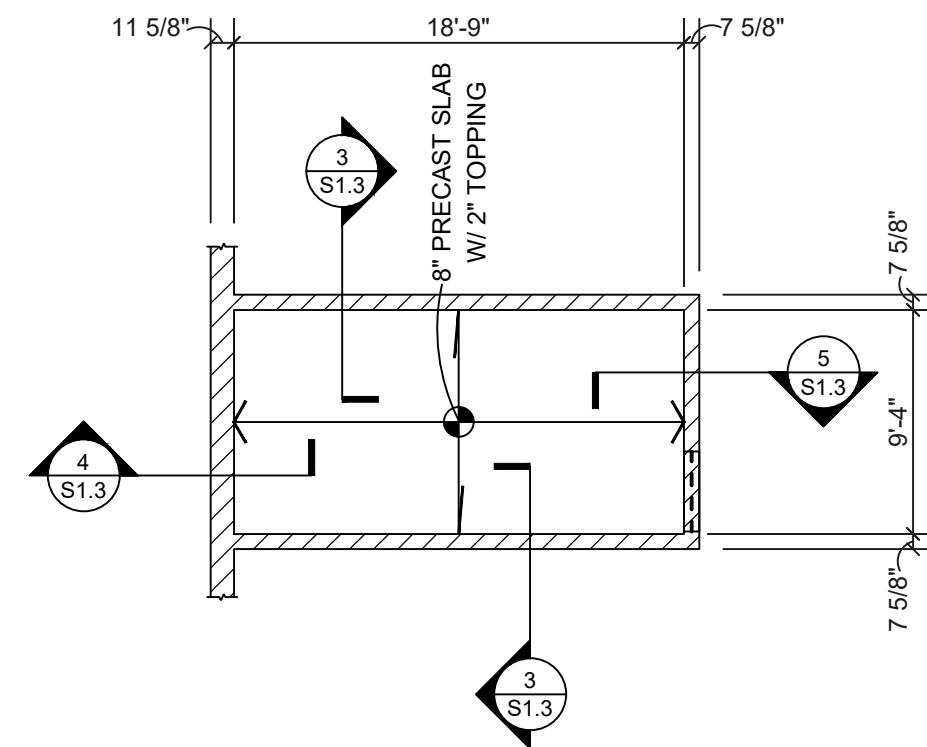
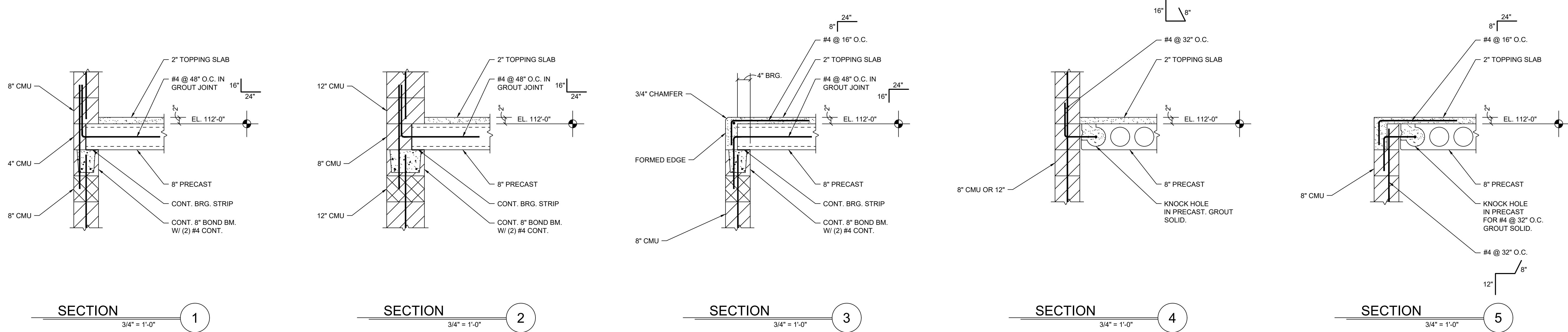
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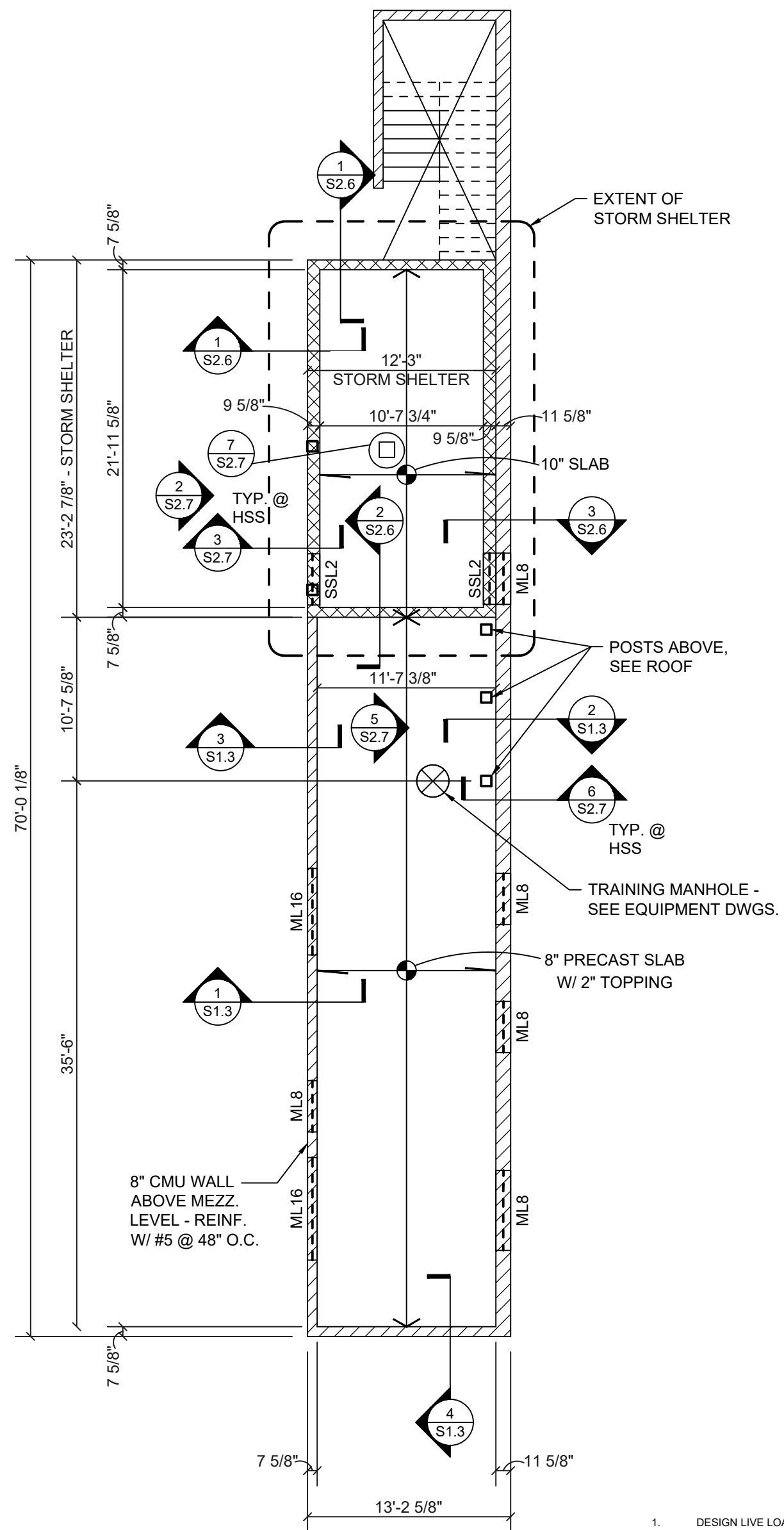
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ROOF FRAMING PLAN

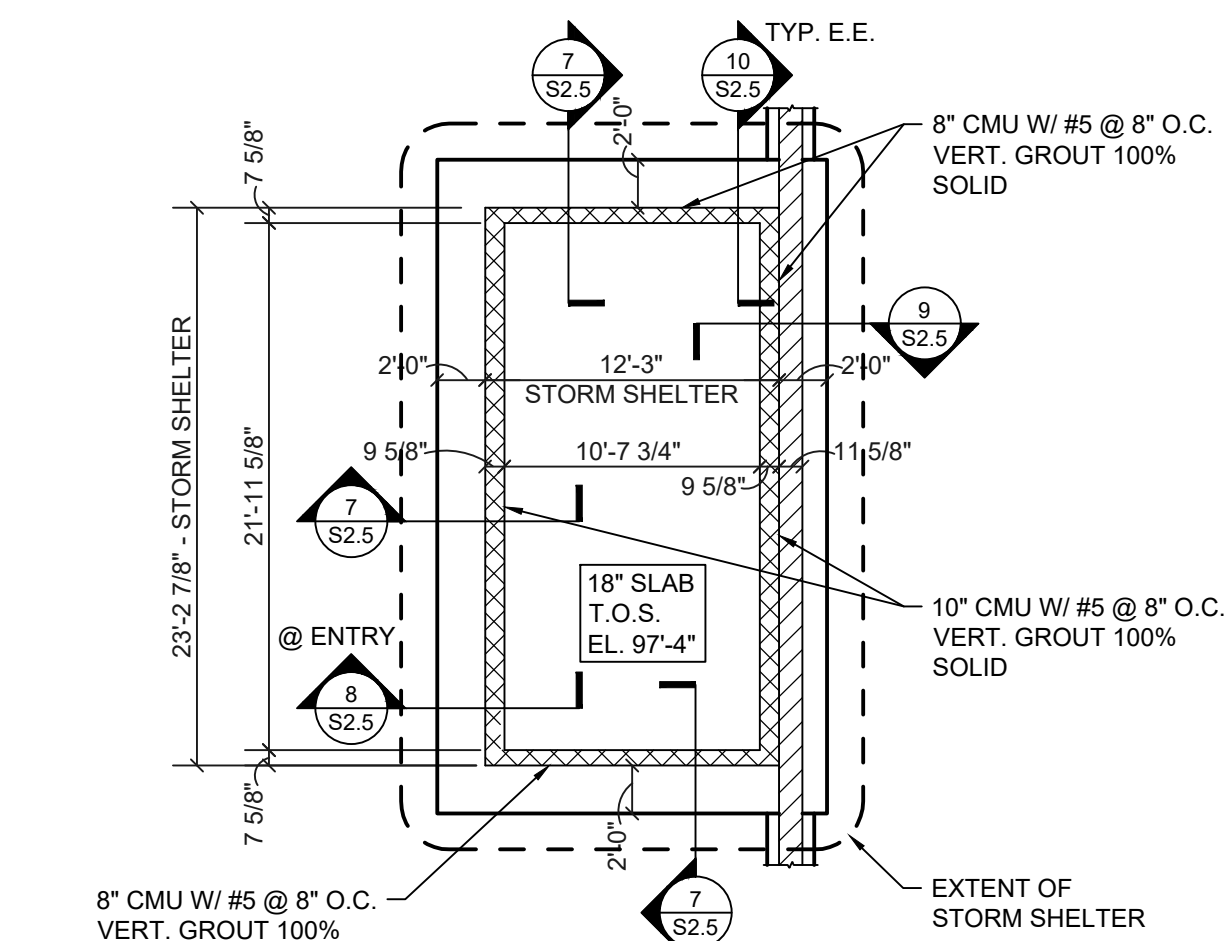
S1.2



SPECIAL INSPECTIONS OF STORM SHELTER CONSTRUCTION TO CONFORM TO LEVEL C QUALITY ASSURANCE REQUIREMENTS, PER SHEET S0.0.



MEZZANINE FRAMING PLAN
1/8" = 1'-0"



STORM SHELTER FOUNDATION PLAN
1/8" = 1'-0"

STORM SHELTER FRAMING NOTES

- DESIGN LIVE LOADS:
ROOF LIVE COLLAPSE/LAYDOWN 100 PSF
1100 PSF
- ROOF CONSTRUCTION:
10" THICK CAST-IN-PLACE CONCRETE SLAB. SEE PLANS AND/OR SECTIONS FOR REINFORCING SIZE, SPACING, LAYOUT, AND POSITION.
- SSL(M)
INDICATES MASONRY BOND BEAM LINTEL IN STORM SHELTER CONSTRUCTION PER SECTION 1/S2.5. PROVIDE ADDITIONAL JAMB REINFORCING EACH END PER DETAIL 232.5. COORDINATE BARRED PLATE REQUIREMENTS WITH OPENING PROTECTION DEVICE MANUFACTURER.
- TOP OF SLAB ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
- CONSTRUCT CORNERS OF STORM SHELTER MASONRY WALLS PER DETAIL 3/S2.5. SEE DETAIL 4/S2.5 FOR OFF-COURSING PLAN CONSTRUCTION.
- PROVIDE PLATE SHROUDS PER DETAIL 5/S2.5 OR SECTION 6/S2.5 FOR ALL WALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
- SEE SHEETS S0.0 AND S0.1 FOR GENERAL STRUCTURAL INFORMATION.

MEZZANINE FLOOR FRAMING NOTES

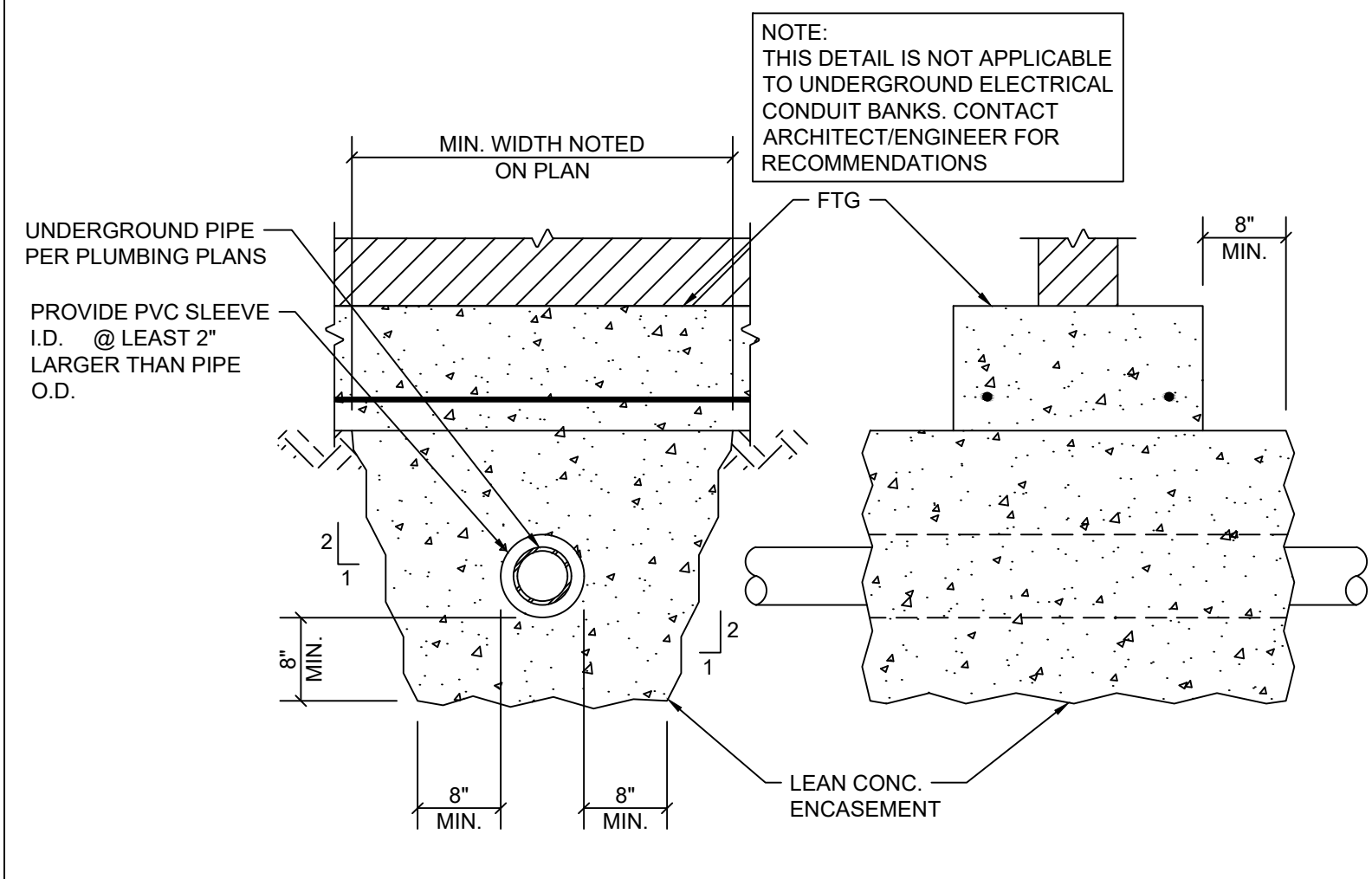
- DESIGN LIVE LOADS:
MEZZANINE 100 PSF; STORM SHELTER LOADING 100 PSF
STAIRS AND EXITS 100 PSF
- FLOOR CONSTRUCTION:
TYPICAL AREAS: 8 INCH DEEP PRECAST CONCRETE PLANK WITH 2 INCH CONCRETE TOPPING. PROVIDE CONTROL JOINTS IN TOPPING SLAB PARALLEL TO SPAN OF PLANK AT 12'-0" O.C. (SEE PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS).
STORM SHELTER AREAS: 10 CAST-IN PLACE SLAB.
PRECAST CONCRETE TOPPING SLABS ARE TO BE FINISHED TO A THEORETICAL LEVEL. THICKNESSES GIVEN ARE APPLICABLE AT COLUMNS, BEARING WALLS, AND OTHER RIGID SUPPORTING ELEMENTS. TOPPING SLABS MAY, THEREFORE, BE THINNER AT MID-SPAN OF PRECAST PLANK DUE TO CAMBER AND MUST BE ACCOUNTED FOR IF COMPOSITE MEMBER DESIGN IS UTILIZED.
- REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE. TOP OF MEZZANINE SLAB ELEVATION = 112'-2".
- SEE SHEETS S0.0 AND S0.1 FOR GENERAL STRUCTURAL INFORMATION.

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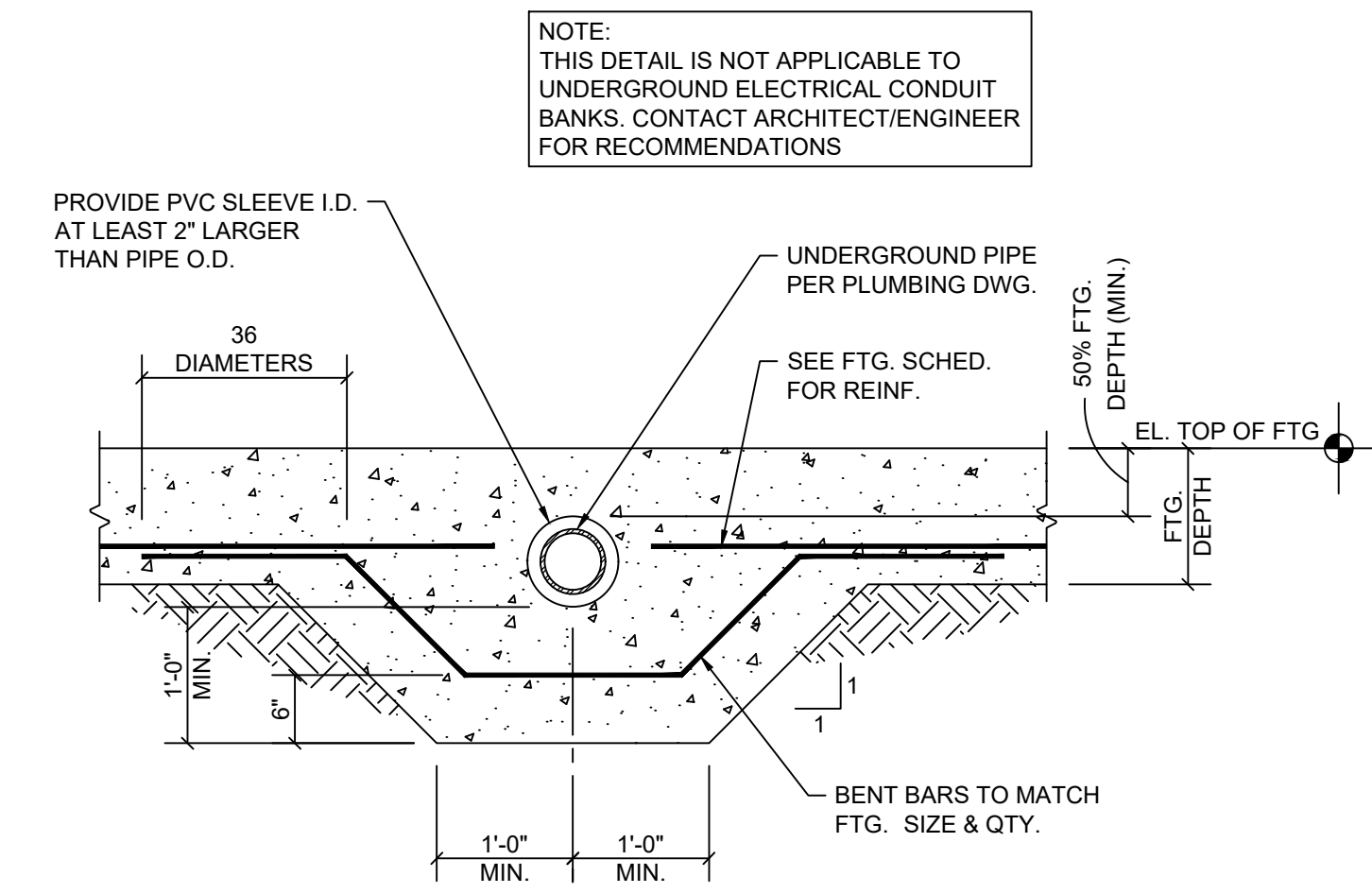
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MEZZANINE FRAMING PLAN



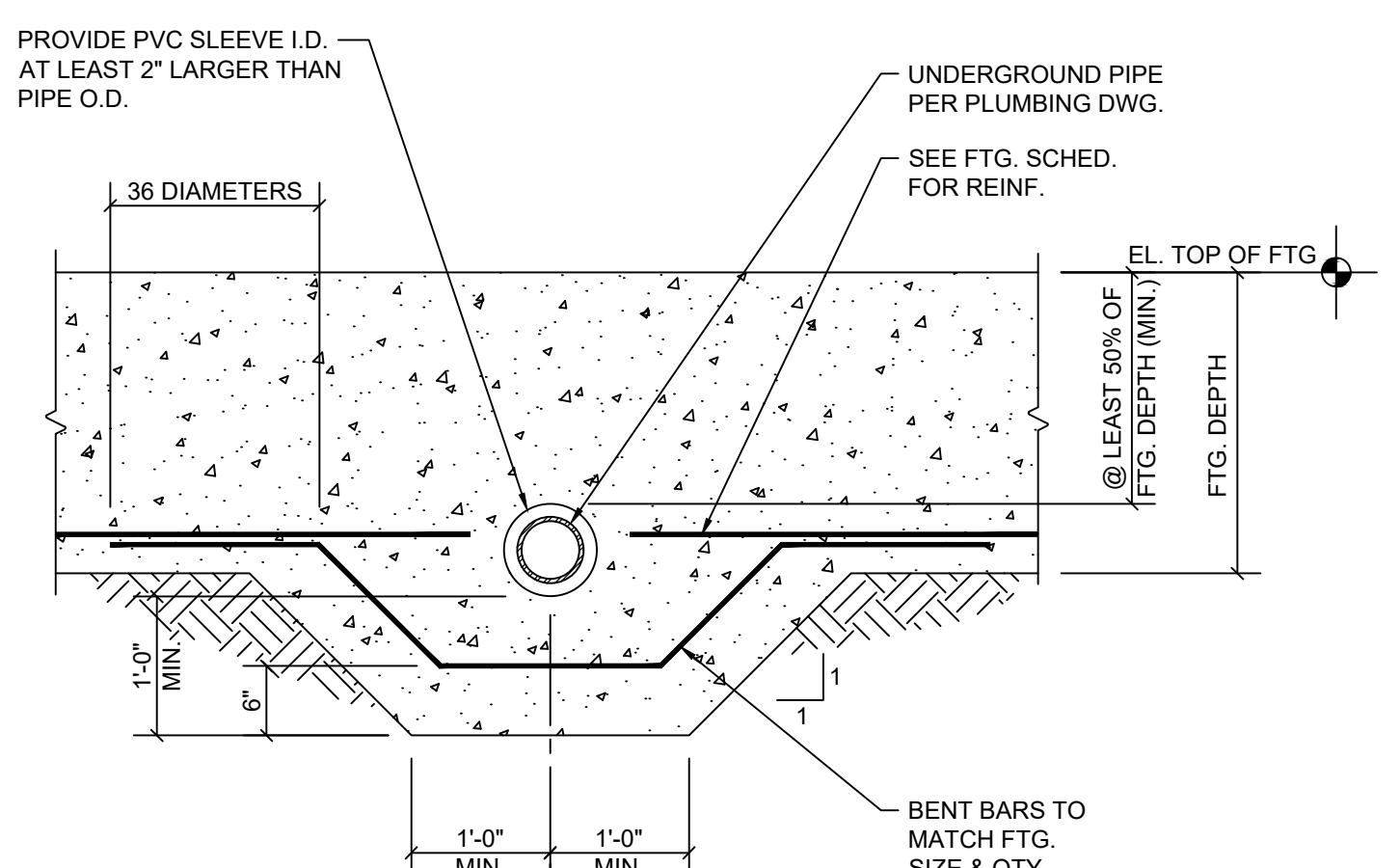
TYPICAL PLUMBING UNDER FOOTING

DETAIL 1
3/4" = 1'-0"



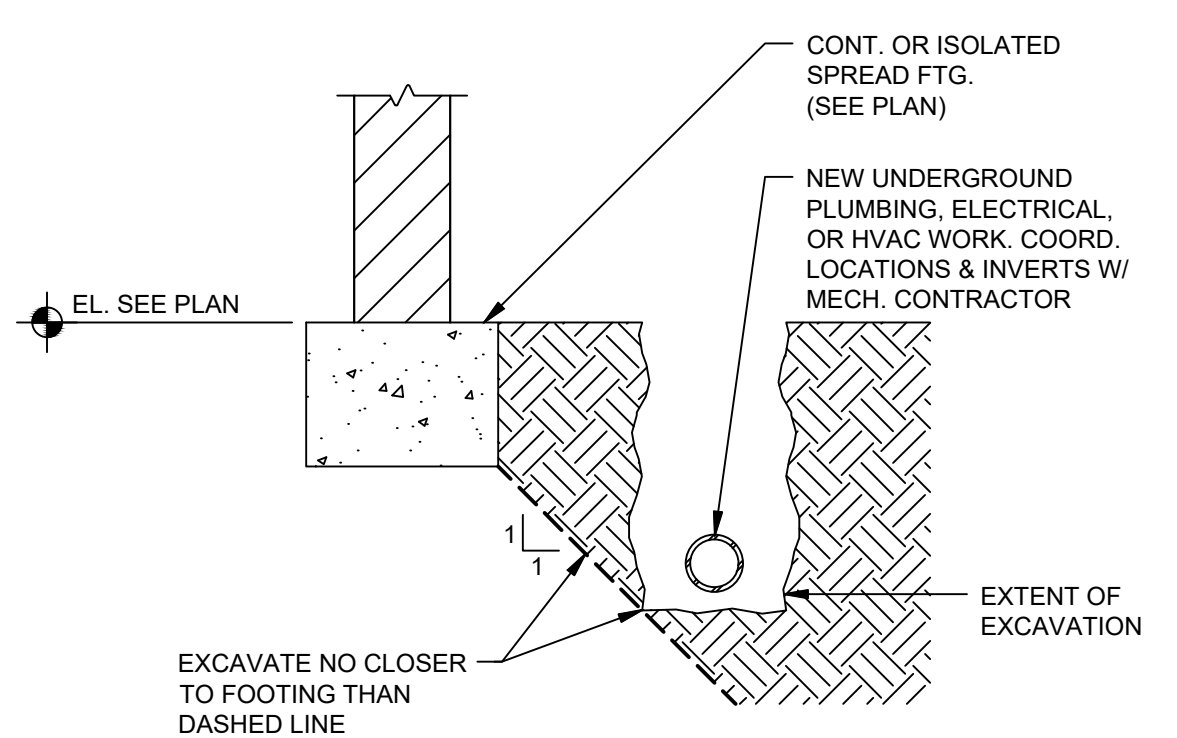
TYPICAL PLUMBING THROUGH FOOTING

DETAIL 2
3/4" = 1'-0"



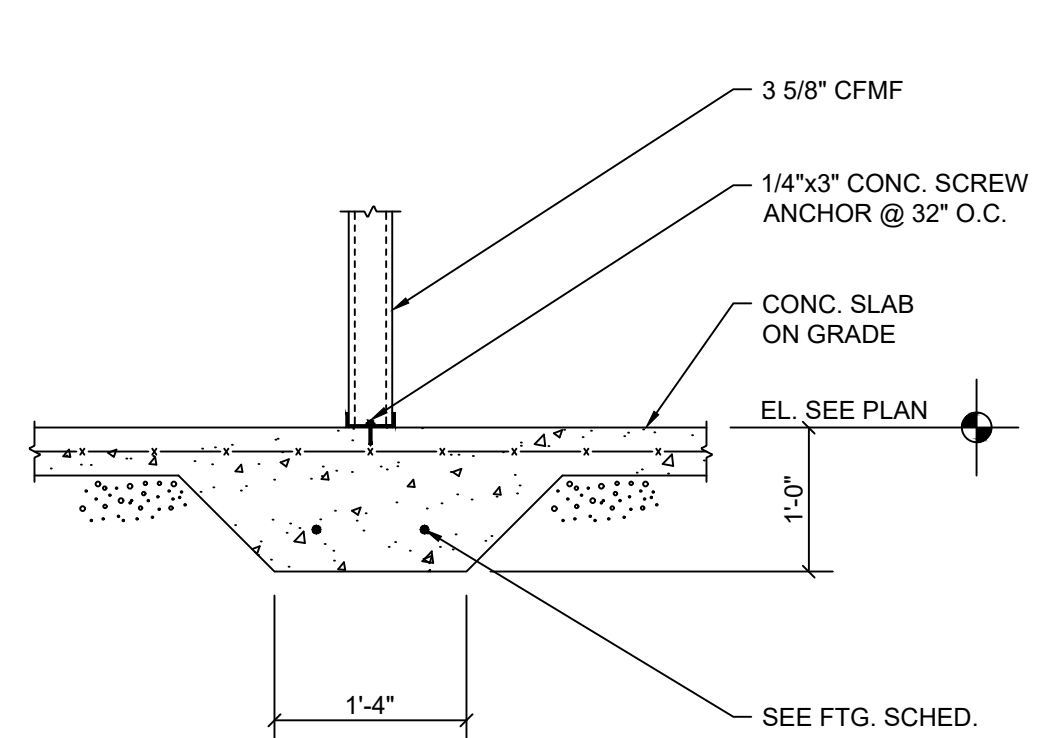
TYPICAL PLUMBING THROUGH FOOTING

DETAIL 3
3/4" = 1'-0"

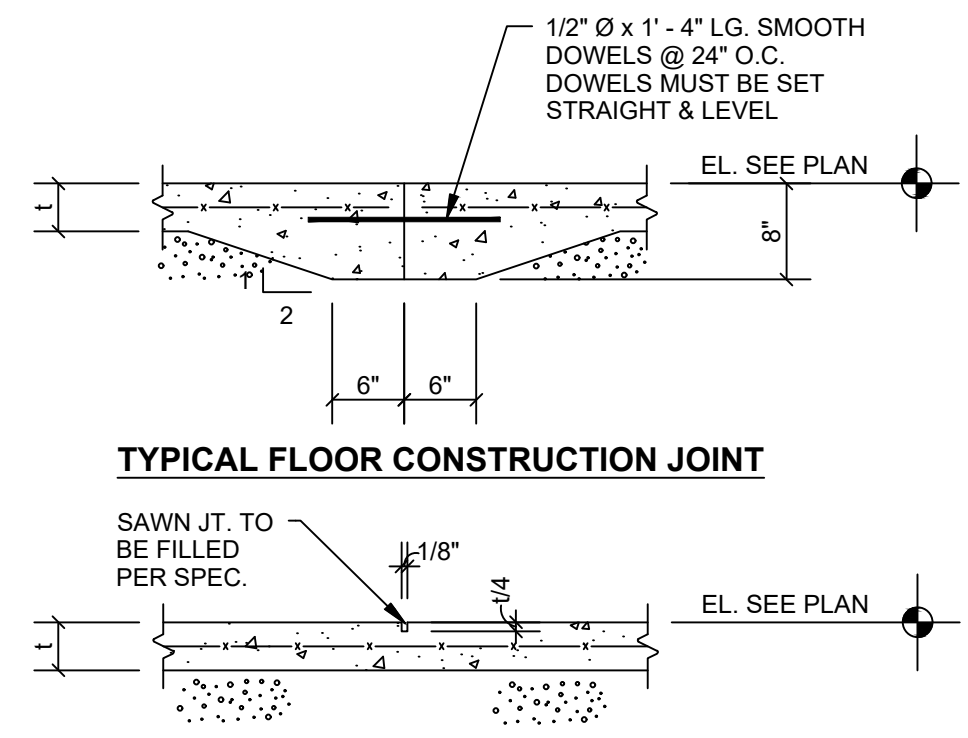


TYPICAL EXCAVATION CLEARANCE REQUIREMENTS AT NEW UNDERGROUND WORK

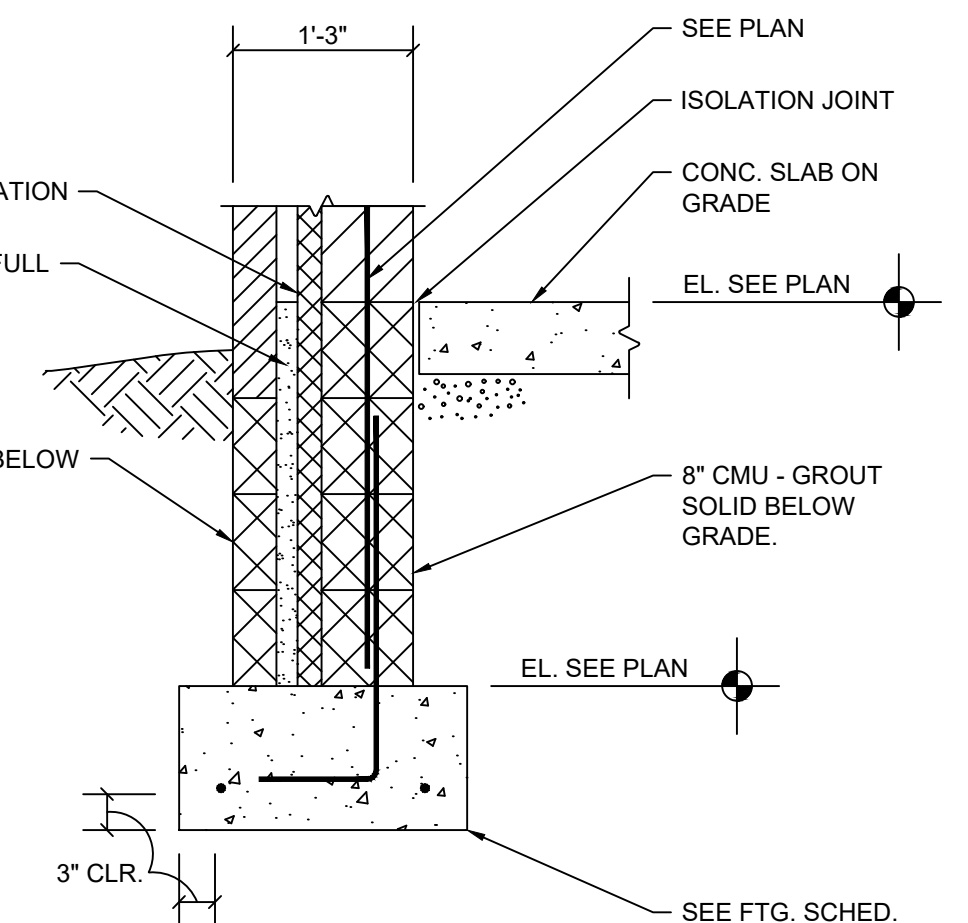
DETAIL 4
3/4" = 1'-0"



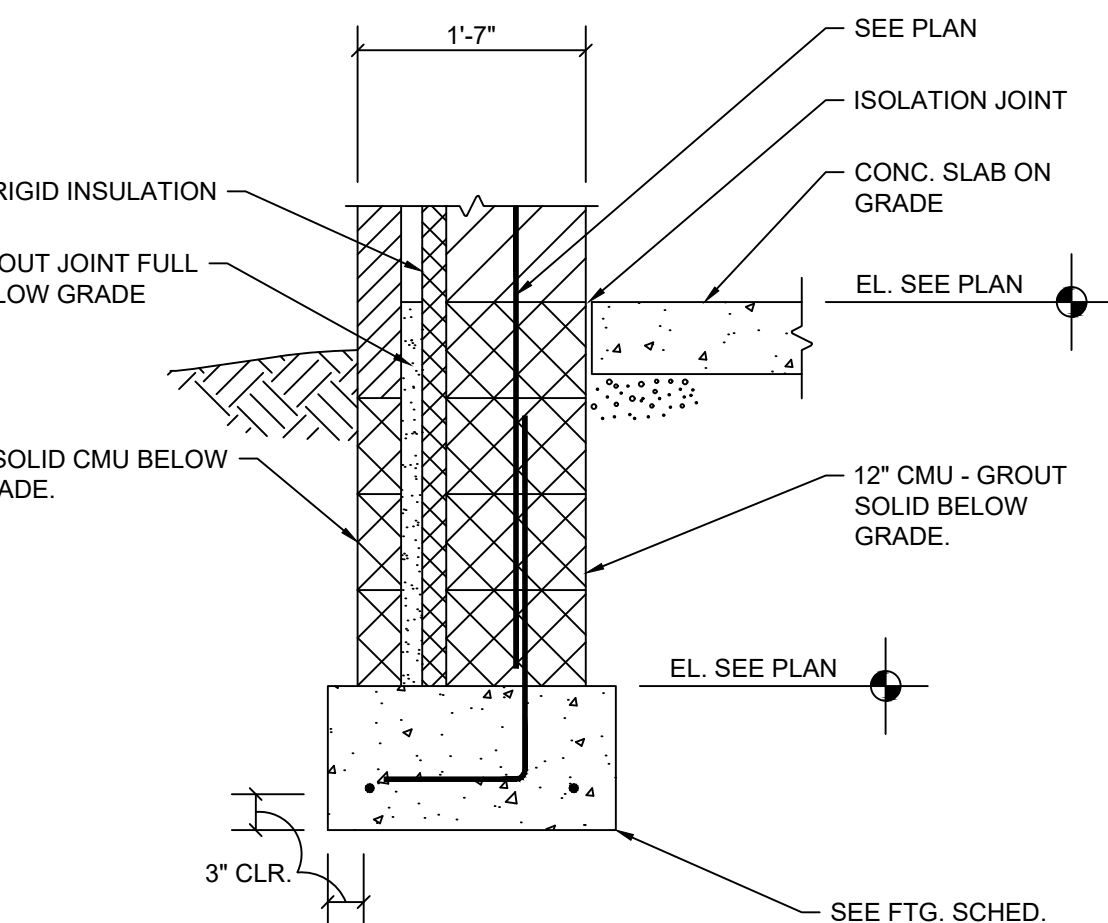
DETAIL 5
3/4" = 1'-0"



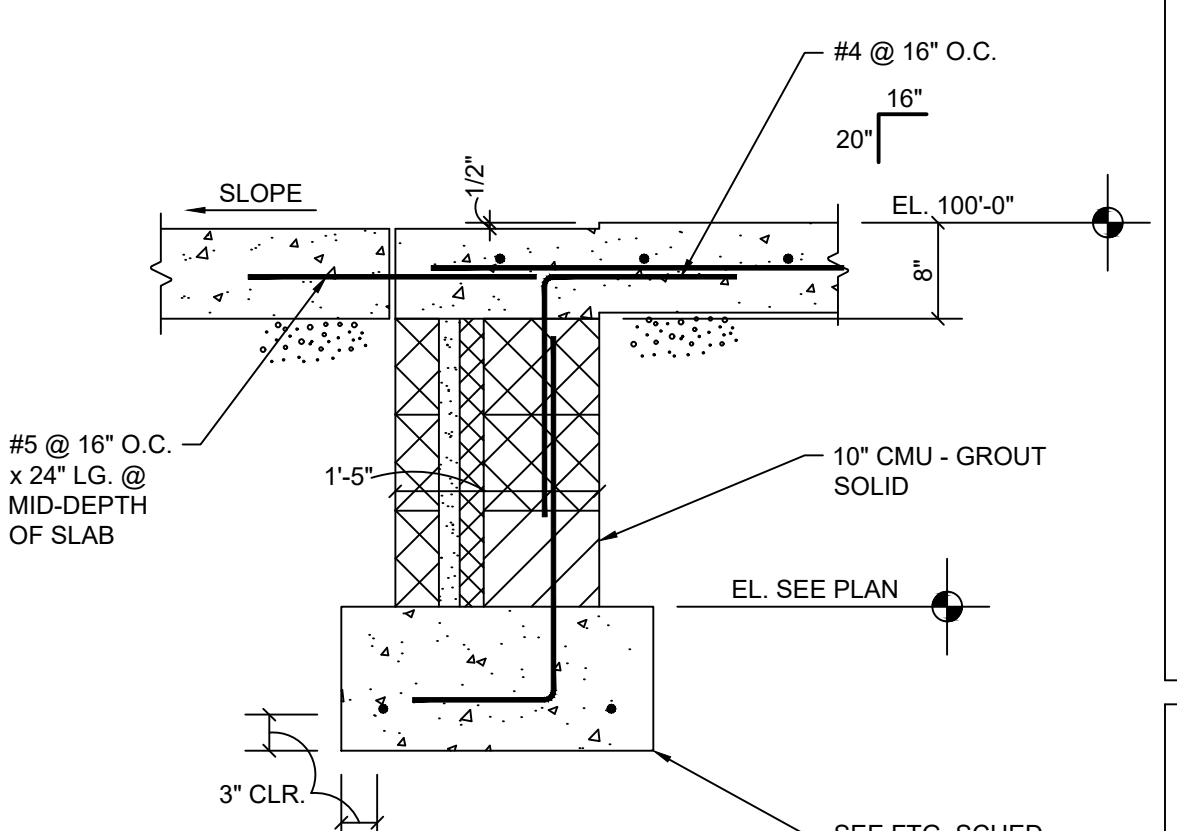
DETAIL 6
3/4" = 1'-0"



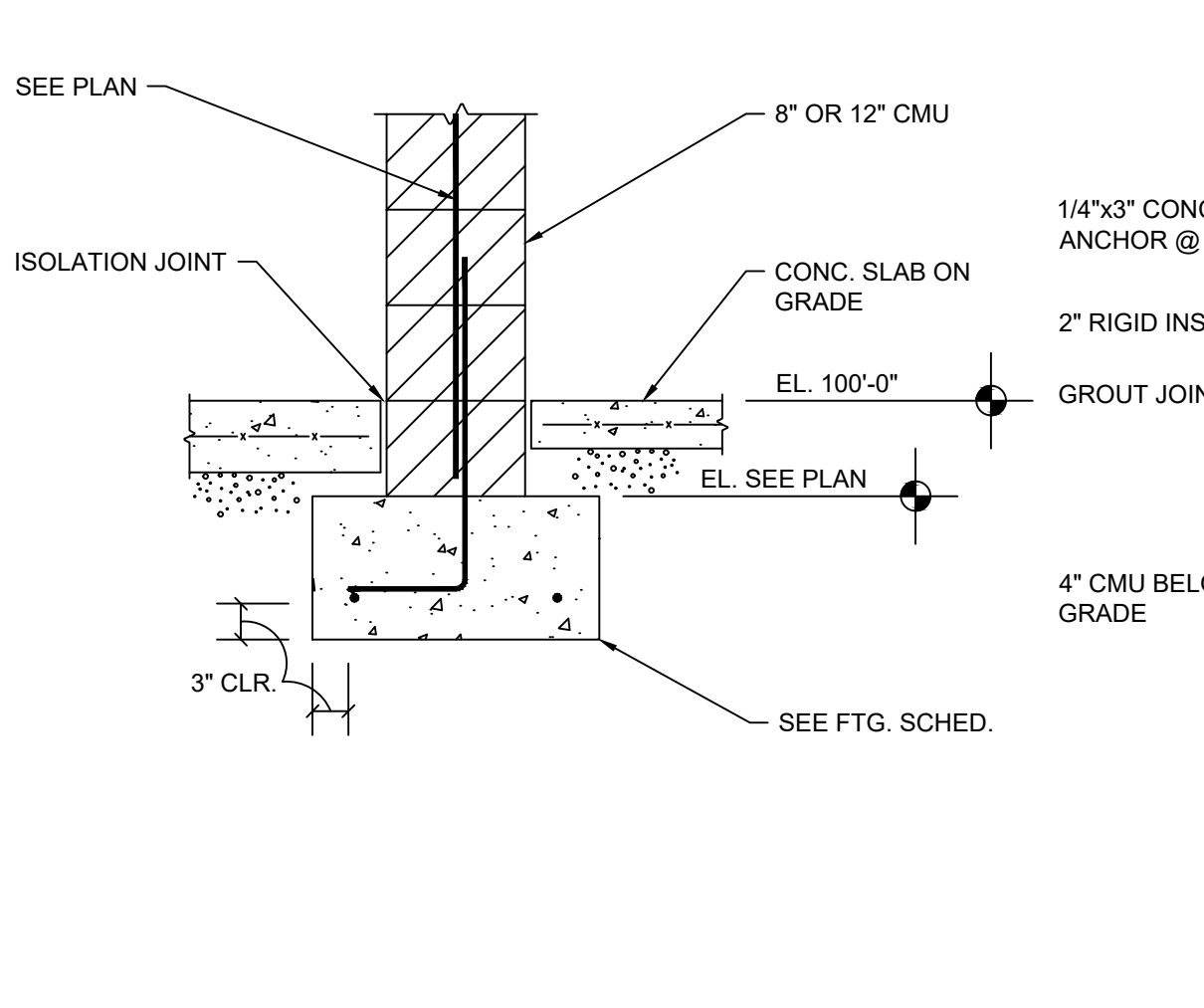
SECTION 7
3/4" = 1'-0"



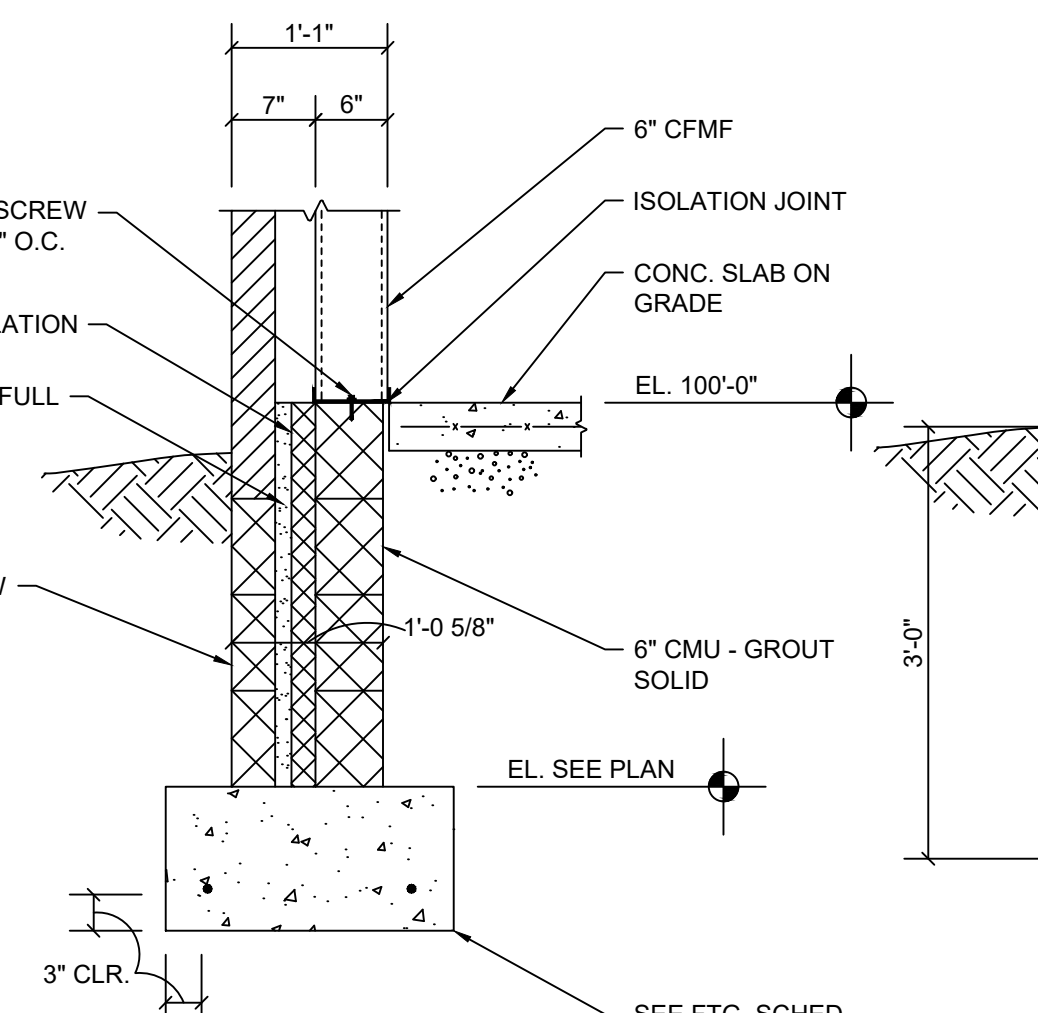
SECTION 8
3/4" = 1'-0"



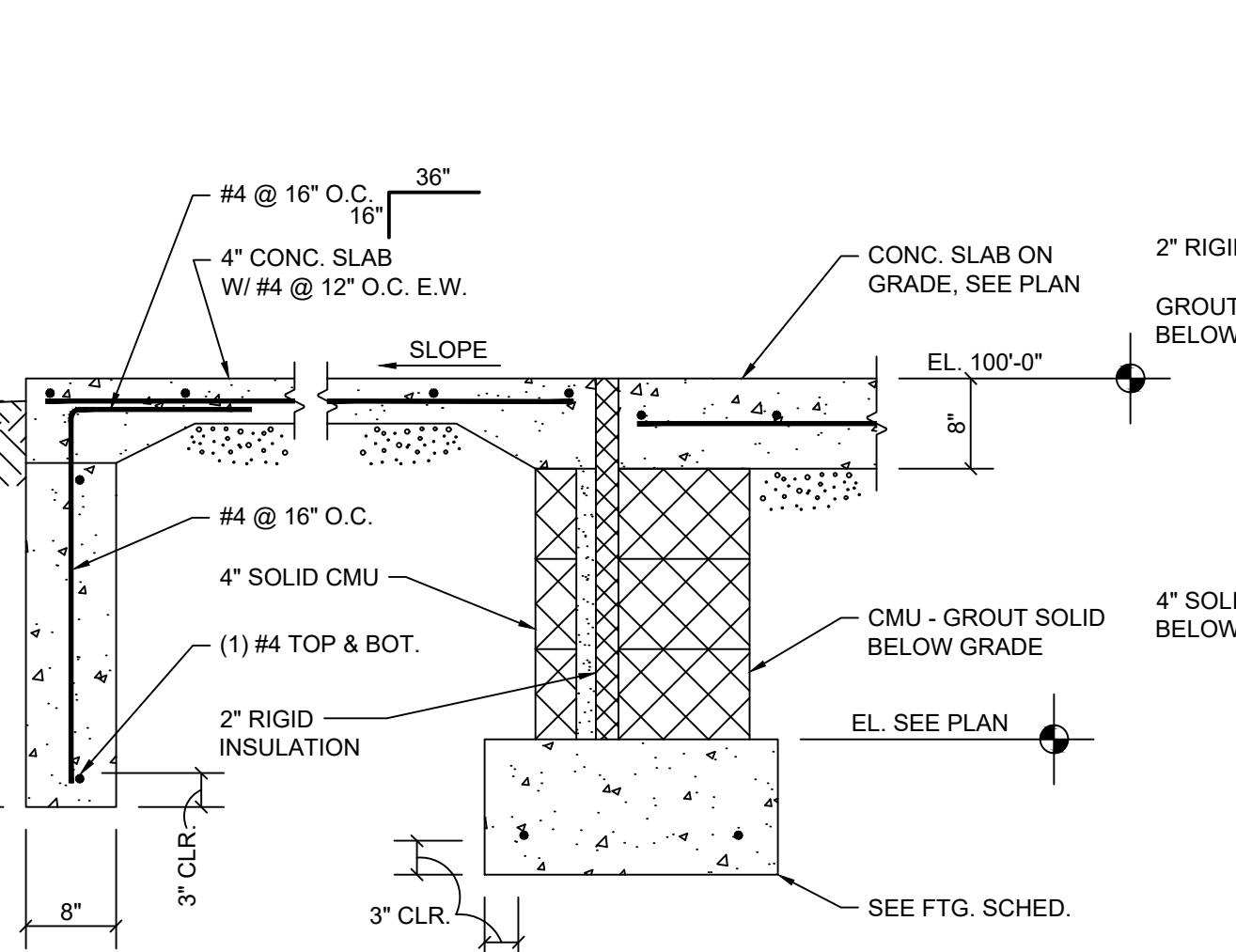
SECTION 9
3/4" = 1'-0"



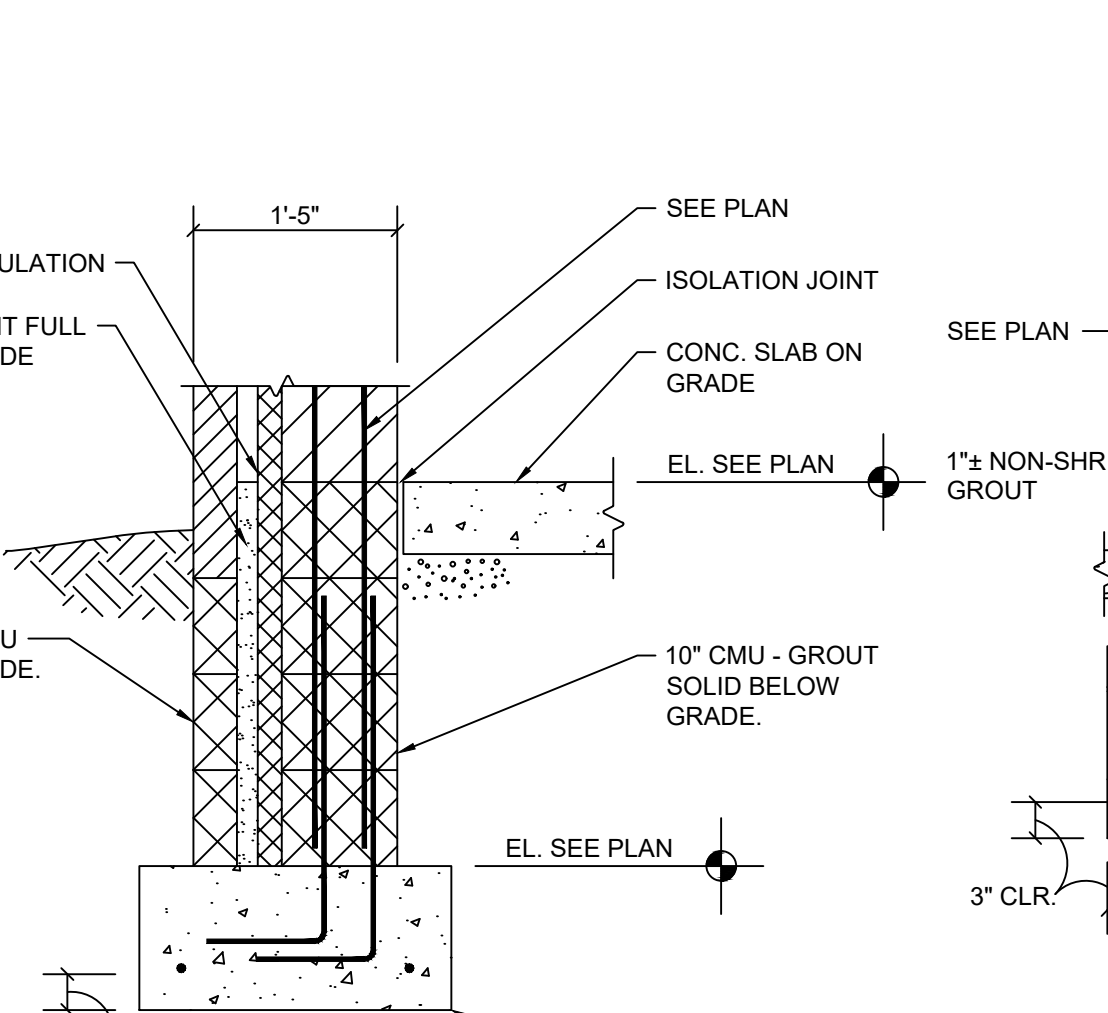
SECTION 10
3/4" = 1'-0"



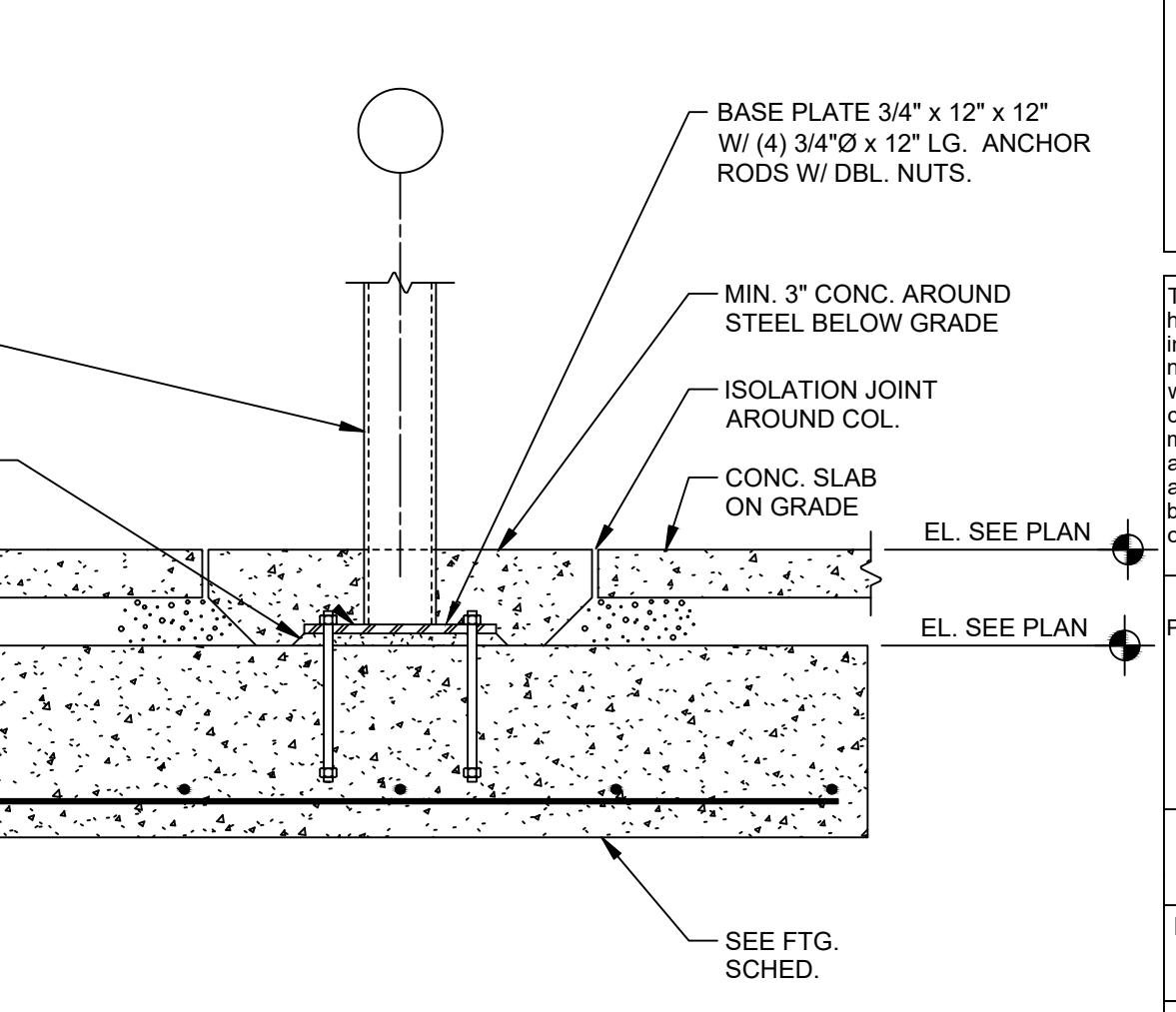
SECTION 11
3/4" = 1'-0"



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



SECTION 13
3/4" = 1'-0"



SECTION 14
3/4" = 1'-0"

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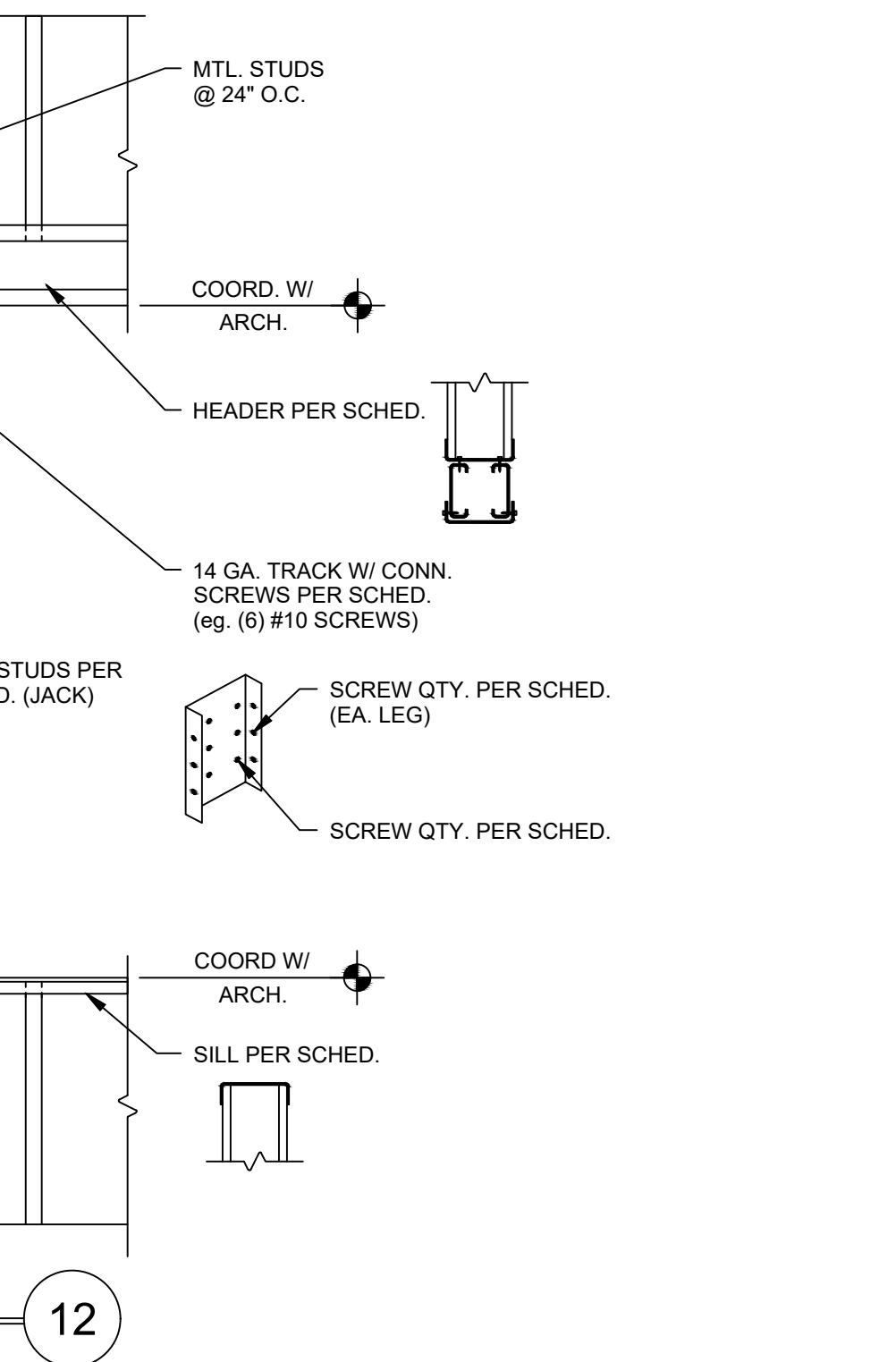
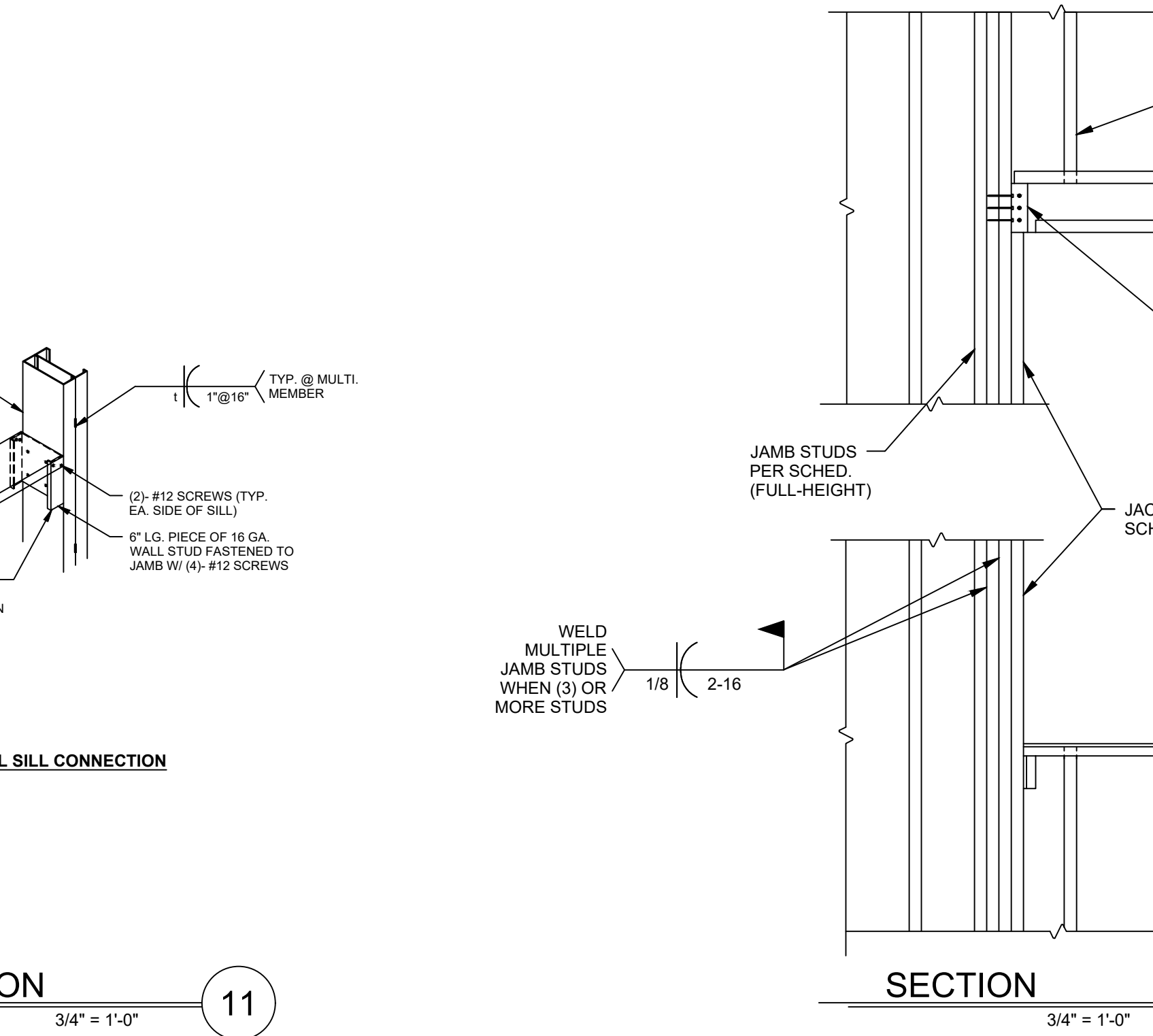
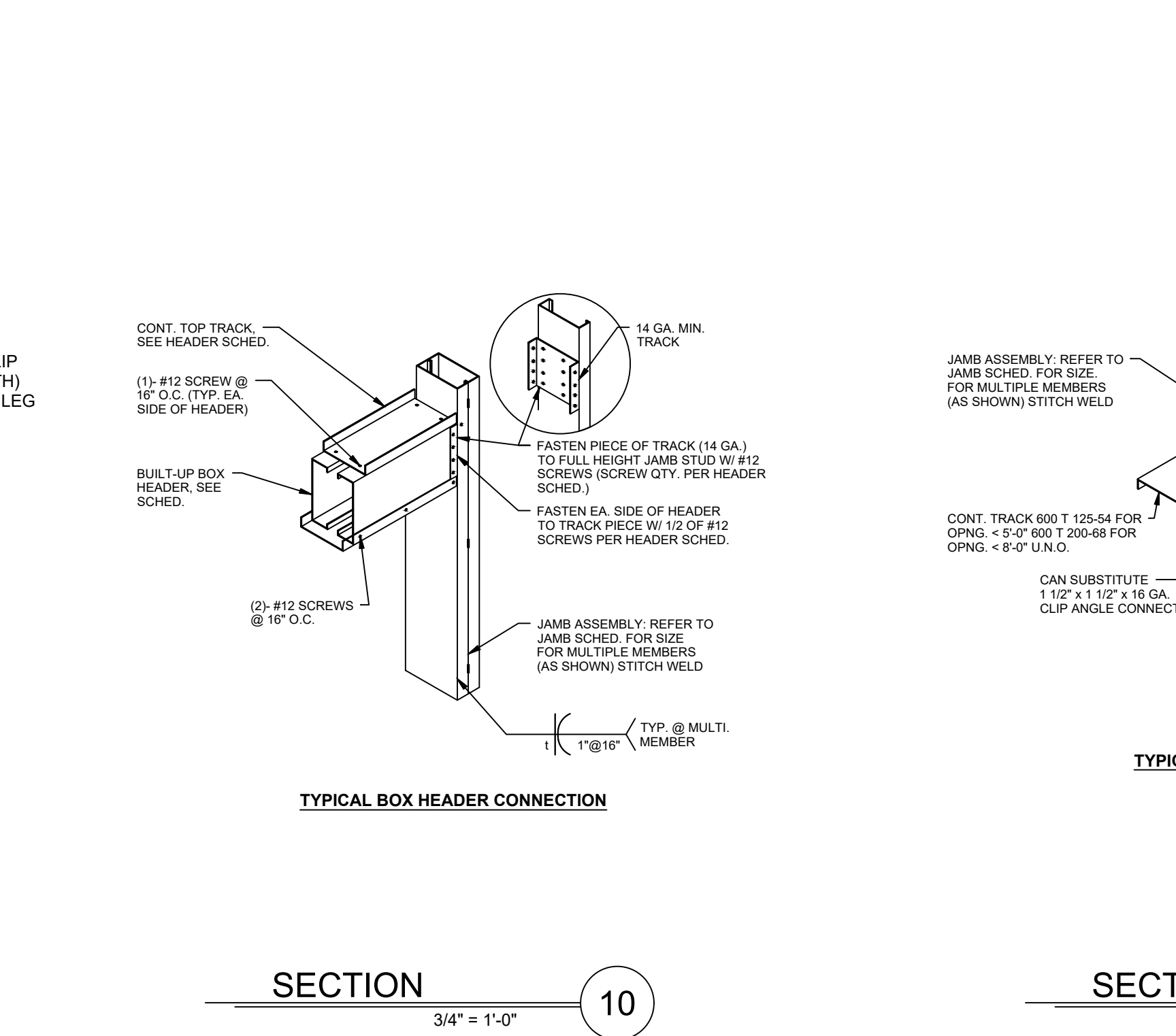
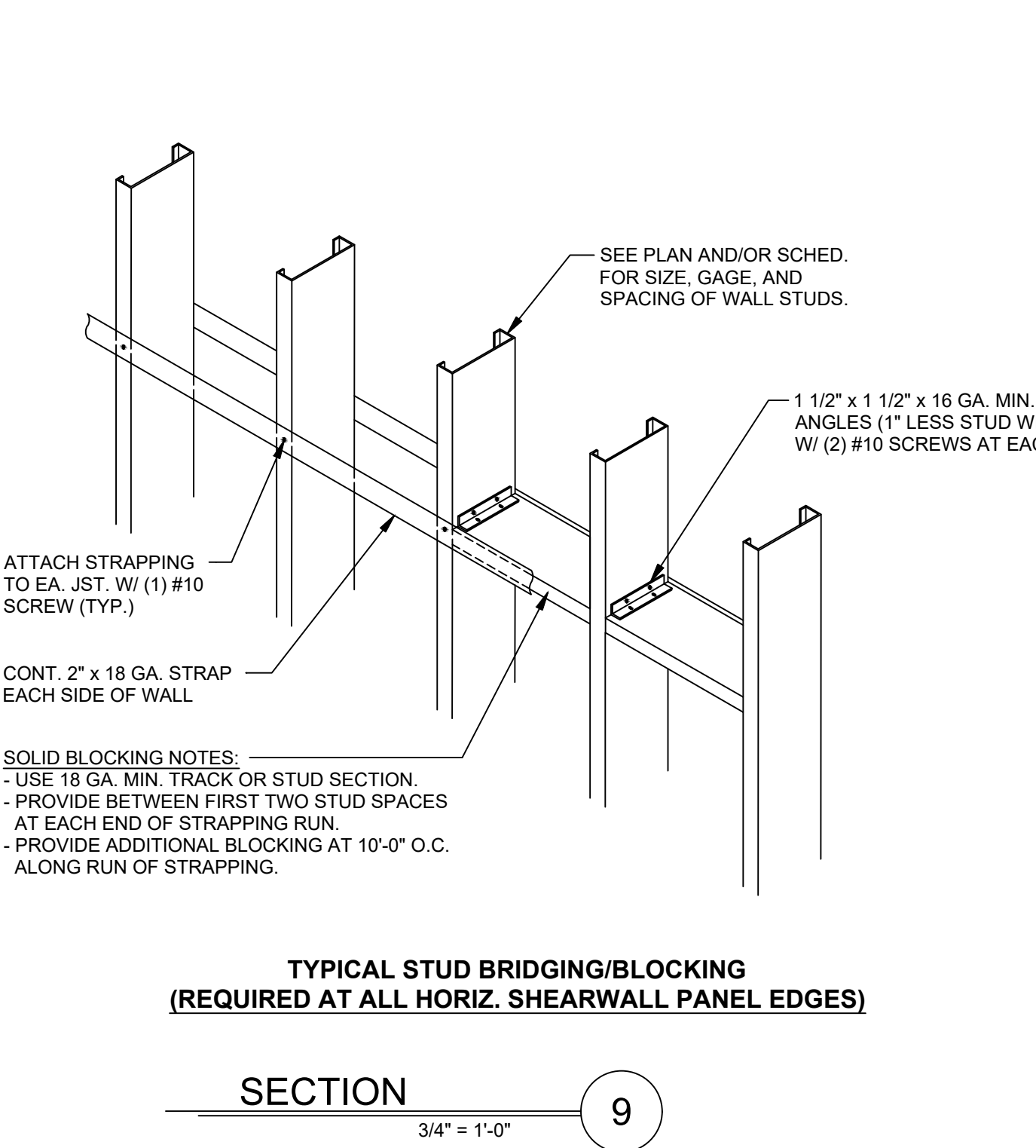
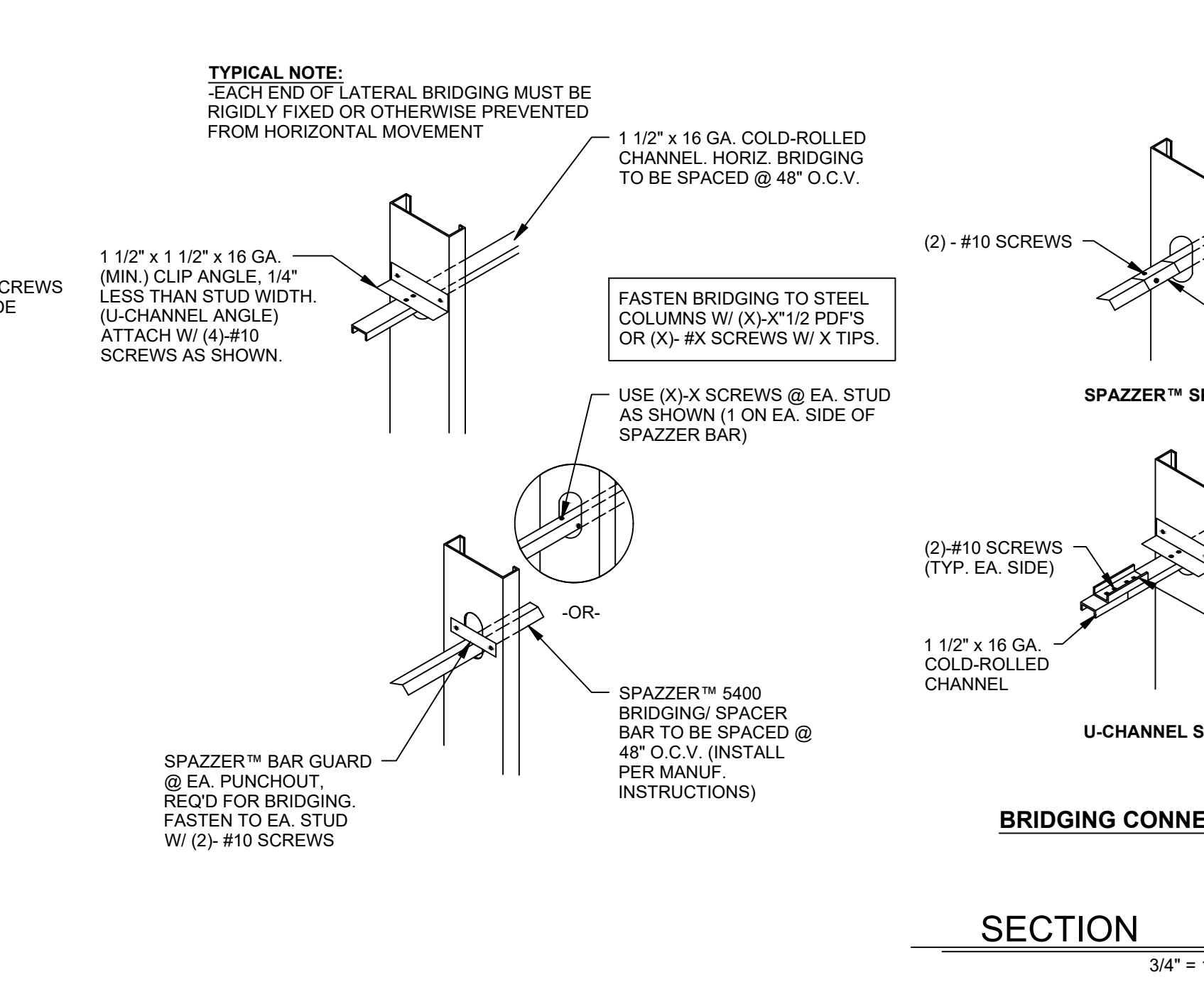
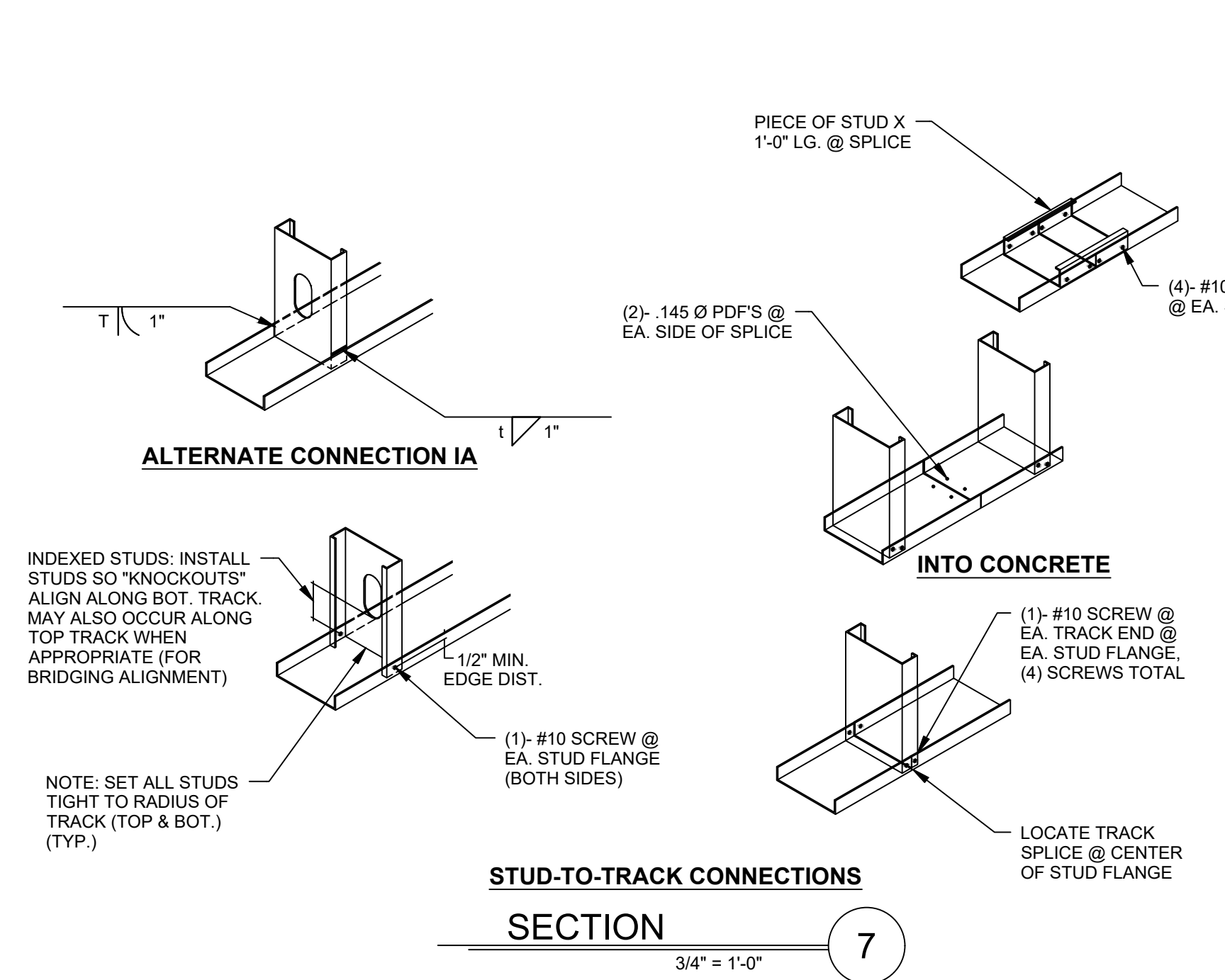
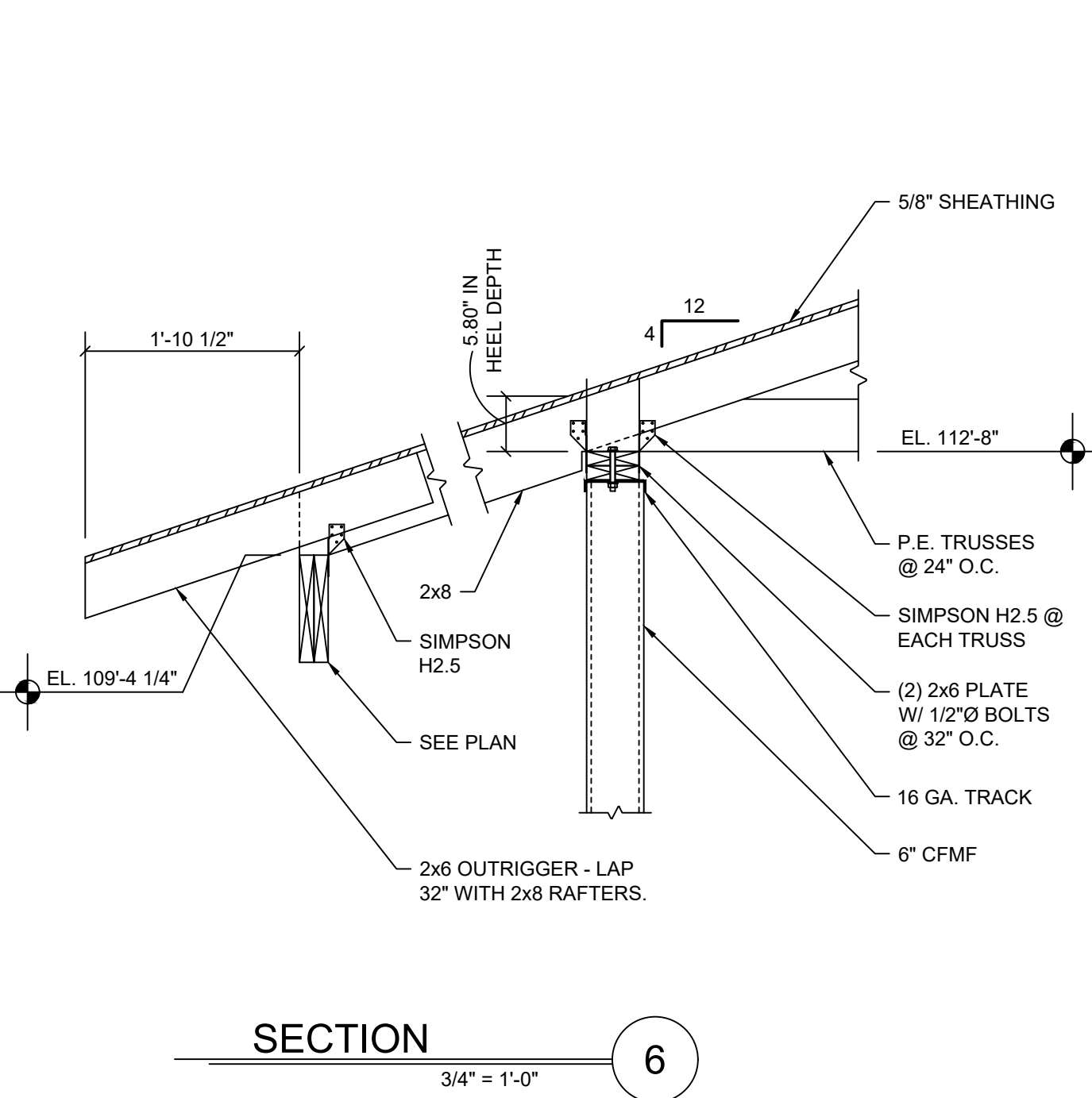
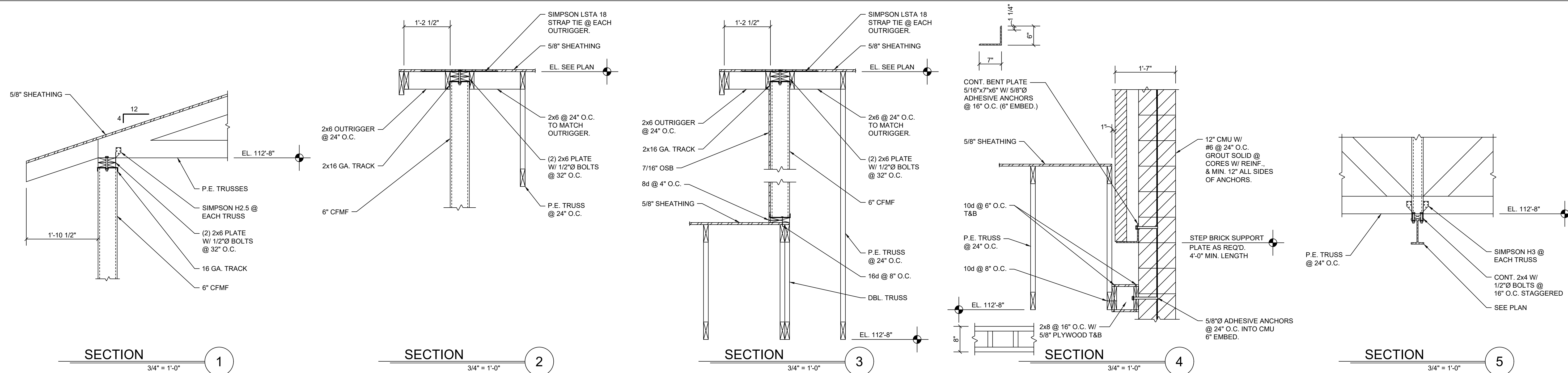
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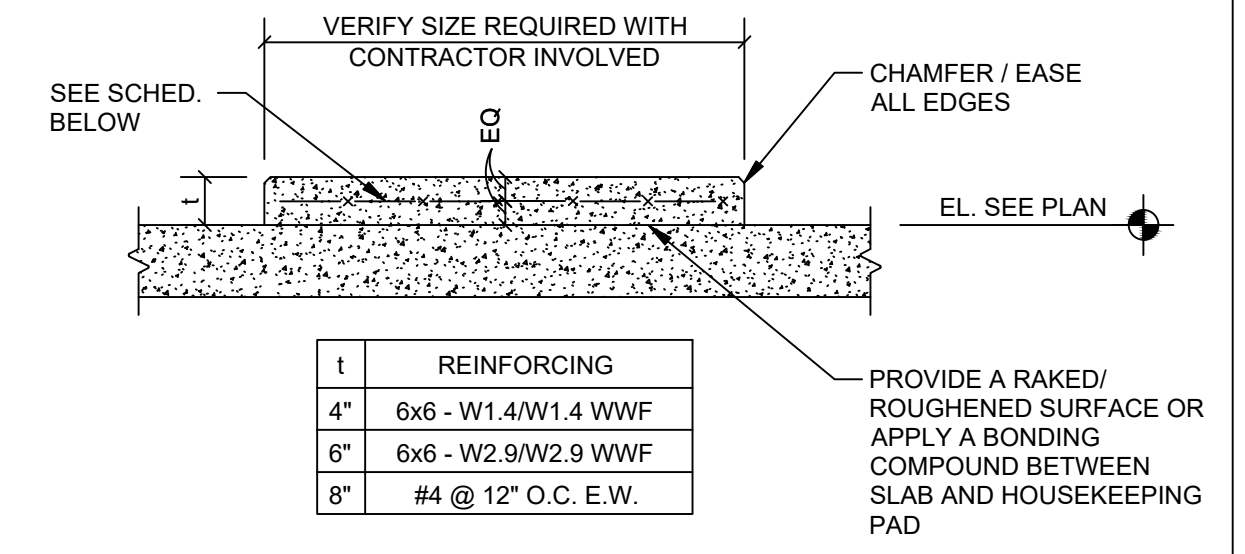
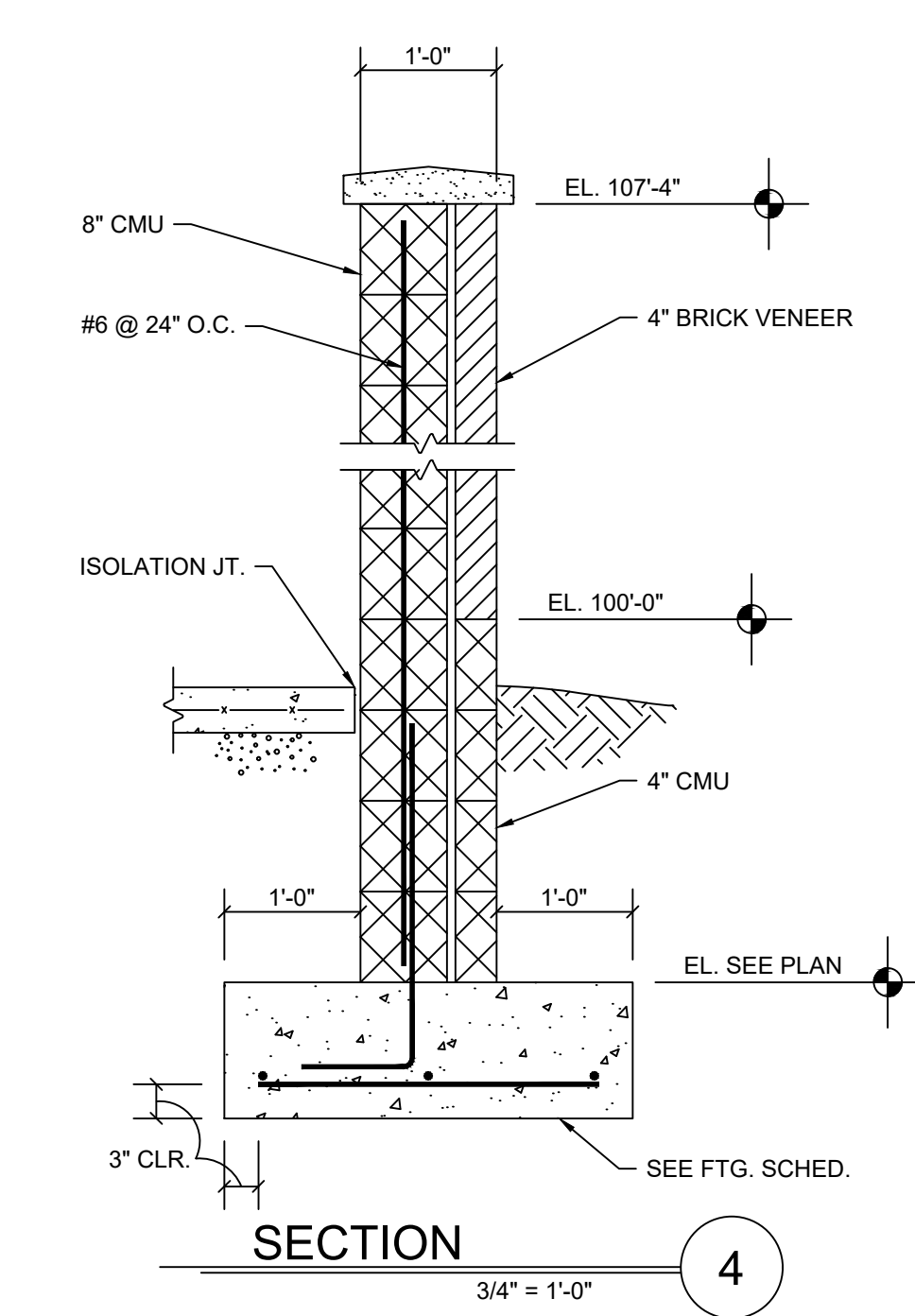
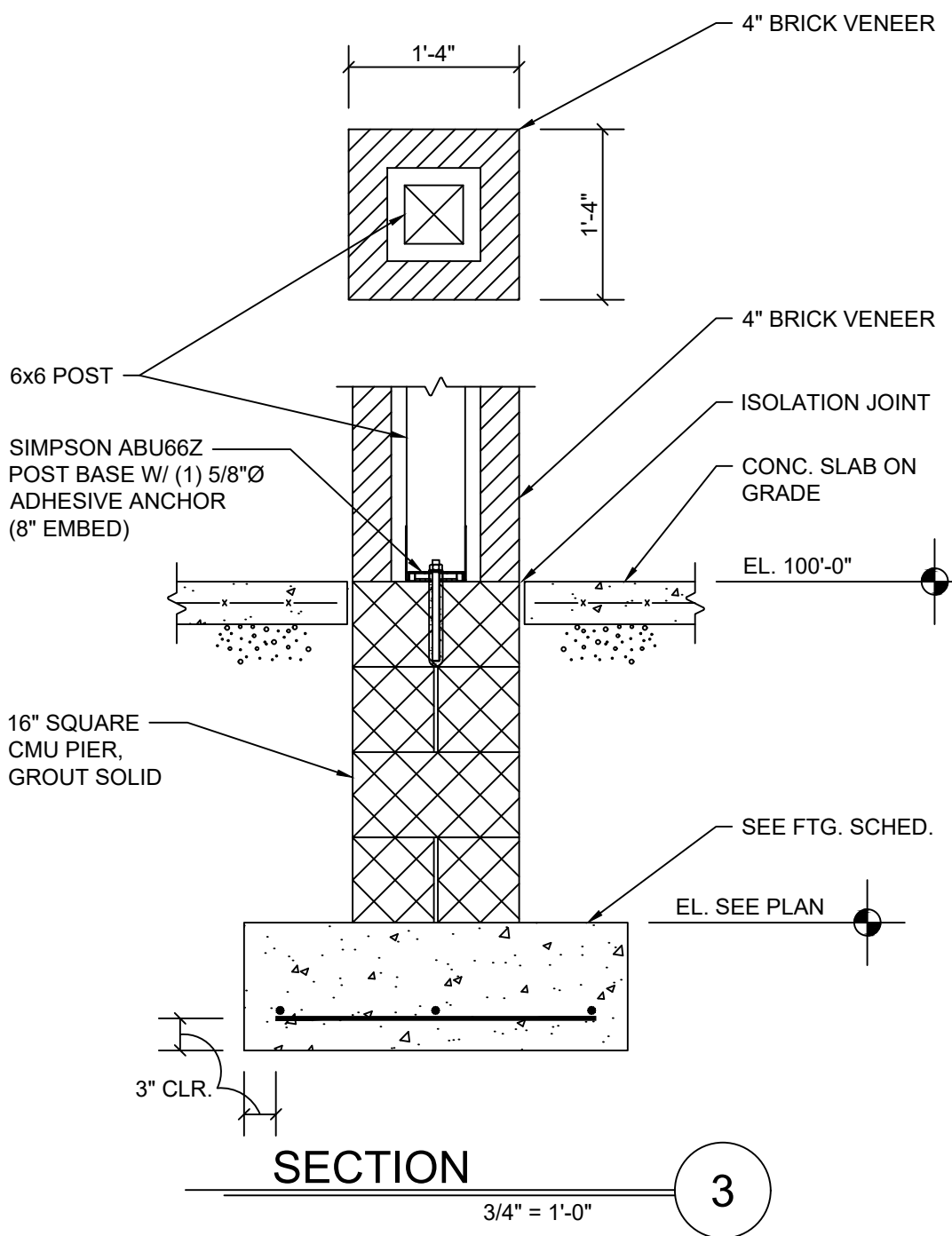
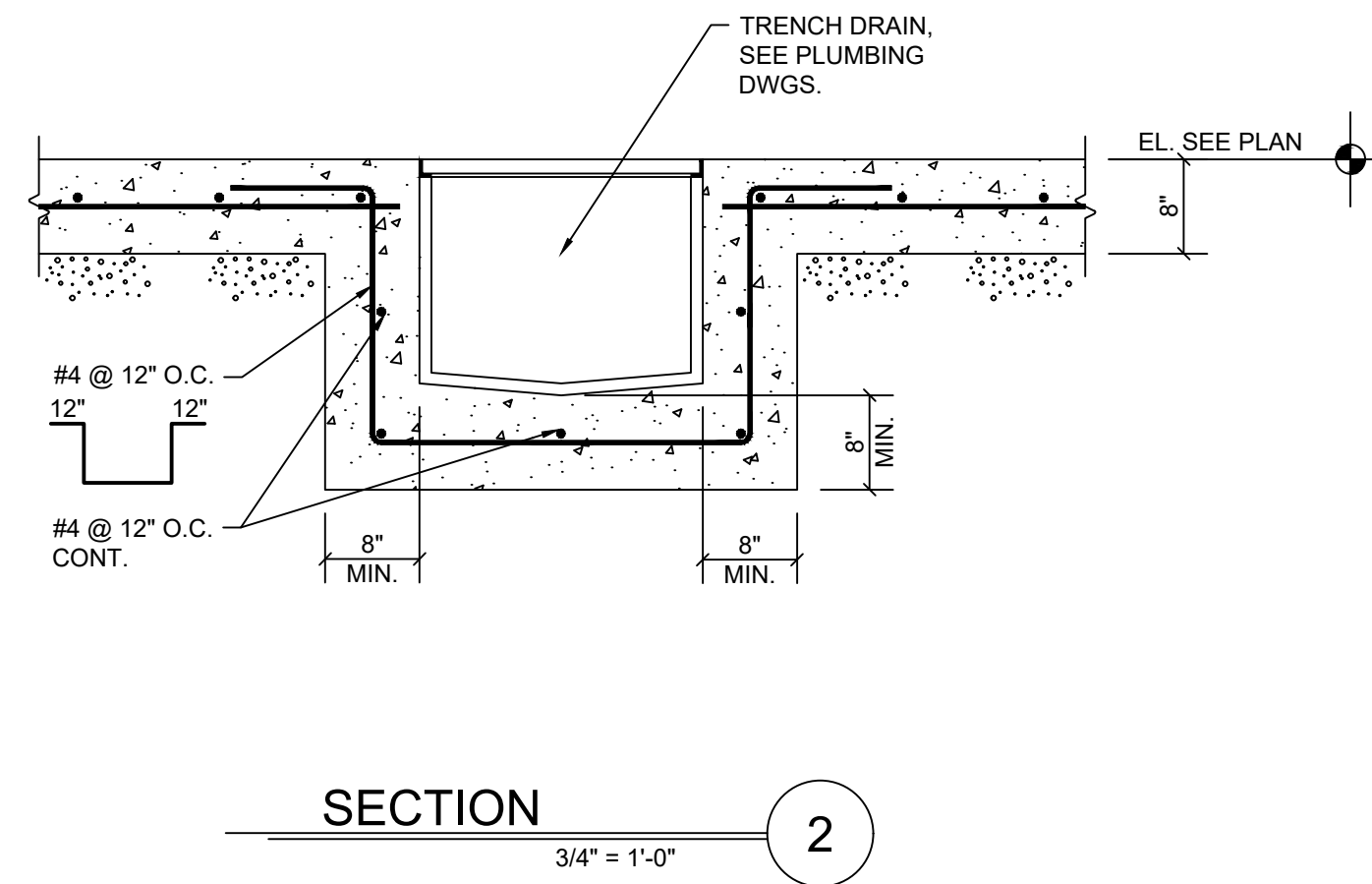
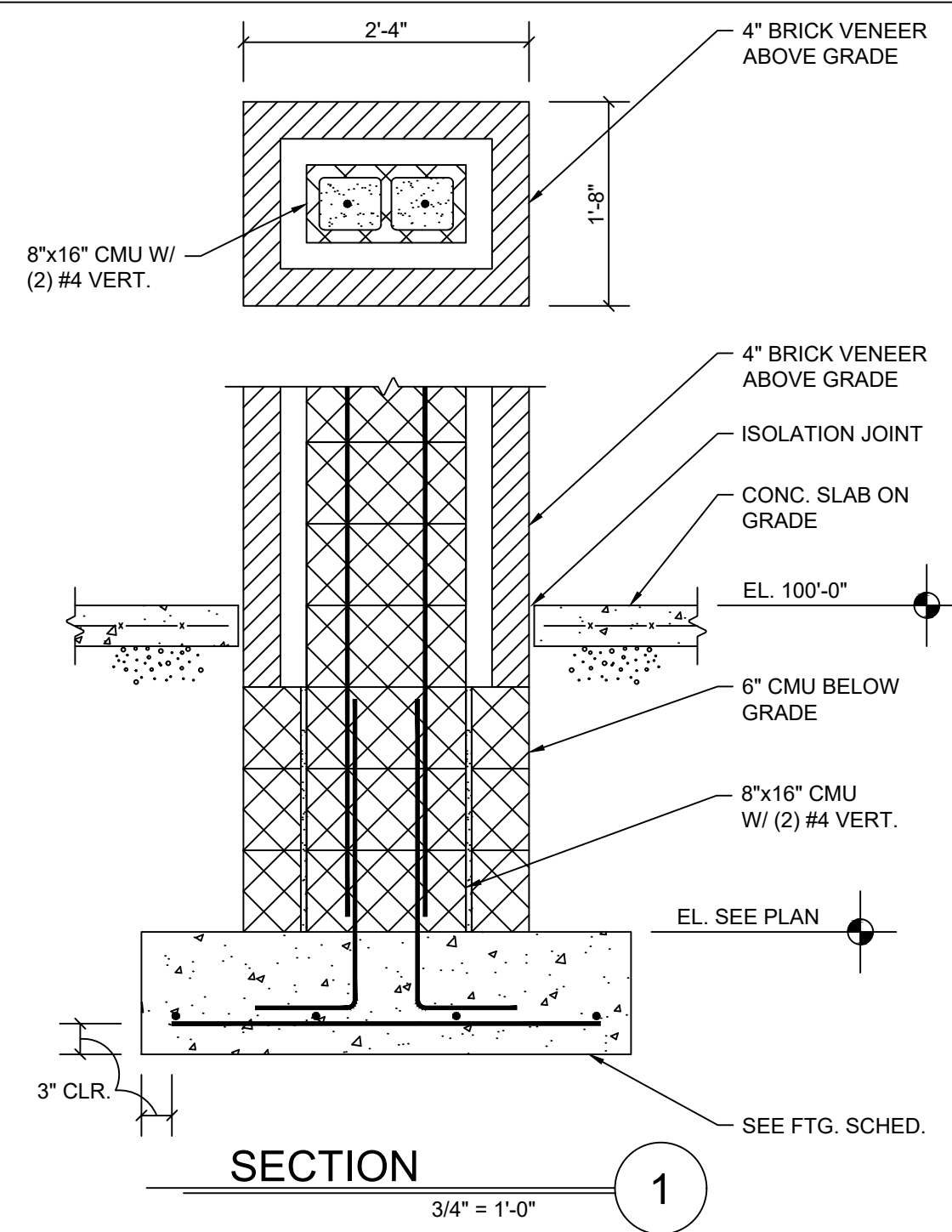
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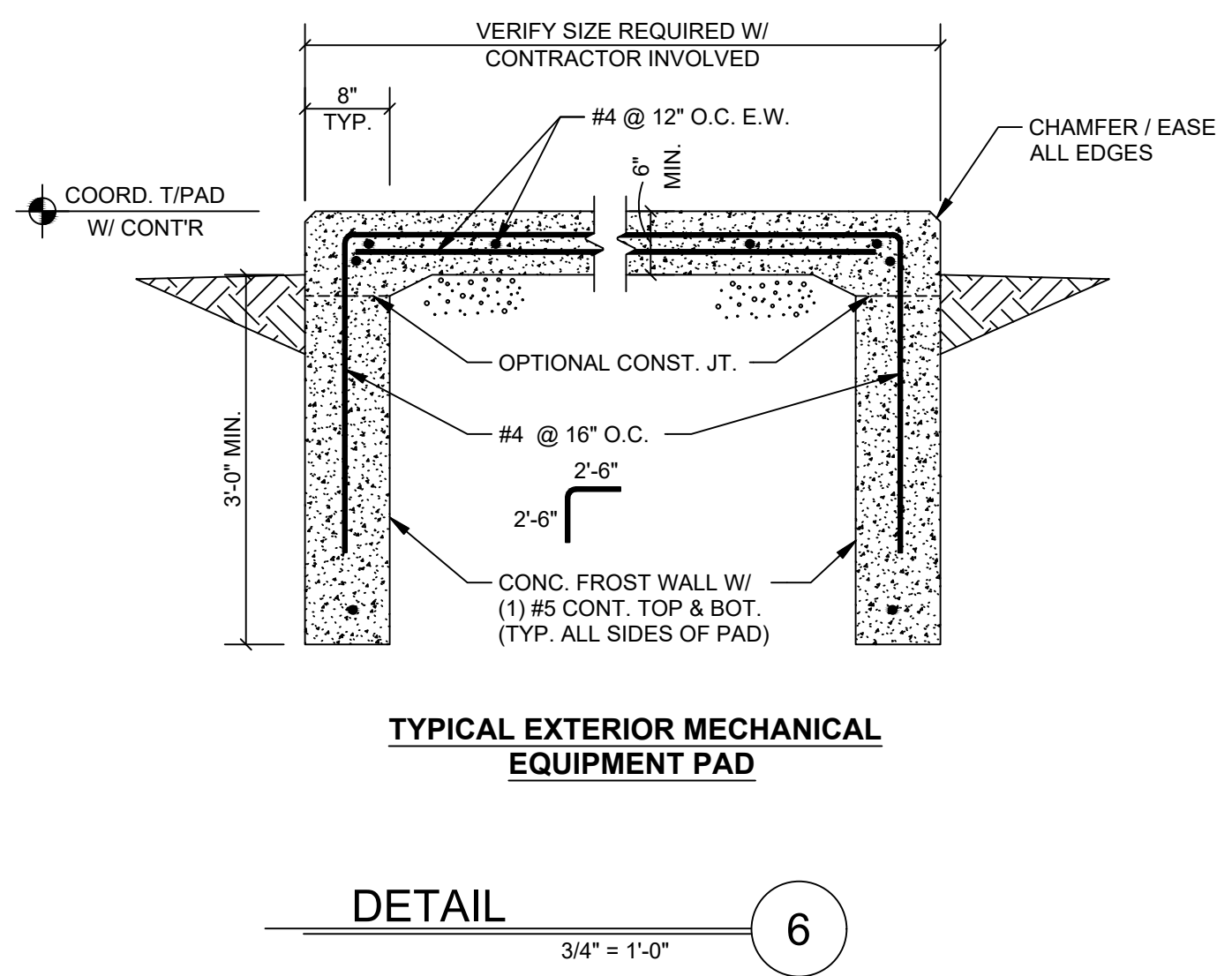
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FOUNDATION DETAILS	
S2.1	



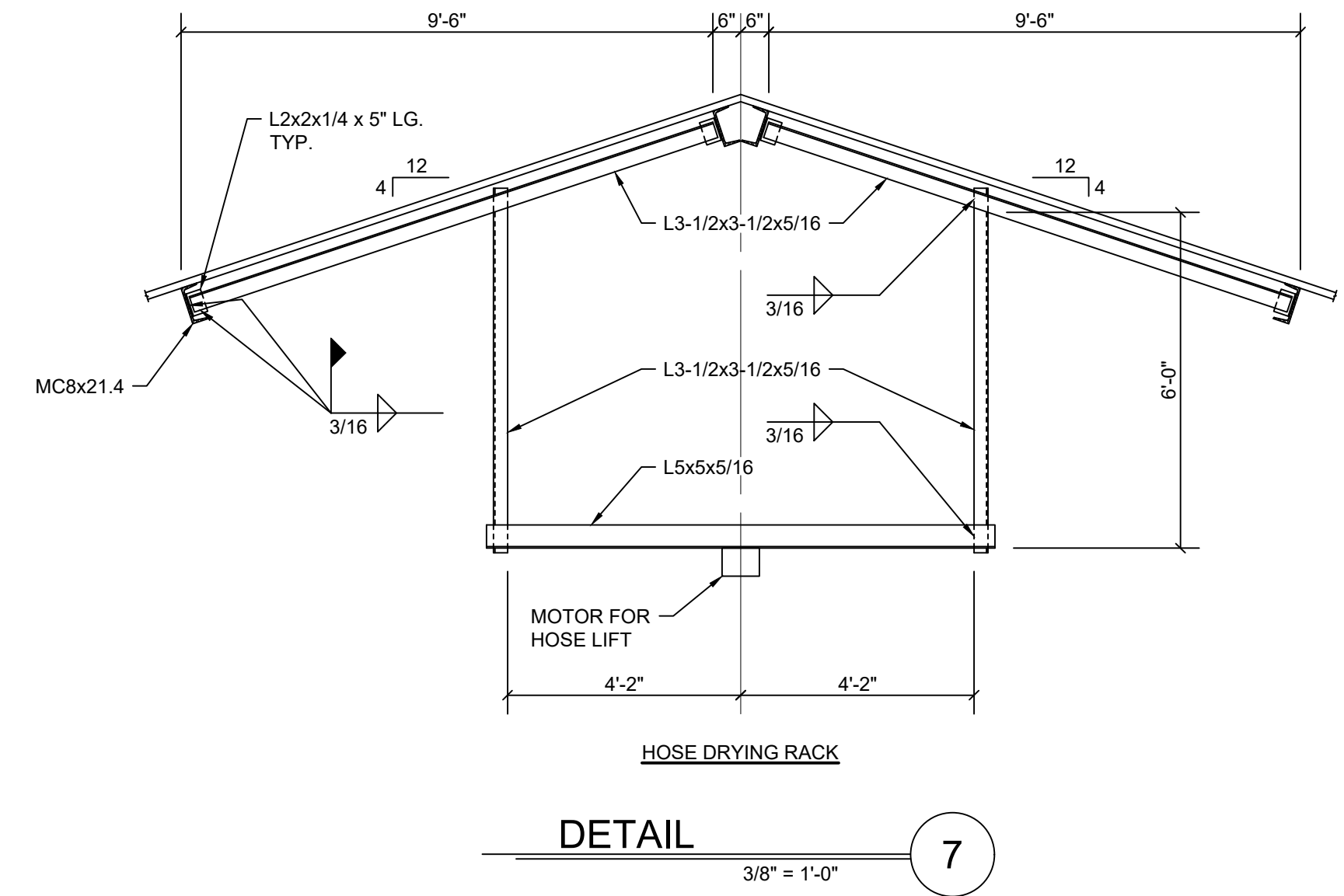


TYPICAL HOUSEKEEPING PADS FOR SLABS ON GRADE & STRUCTURAL DECK

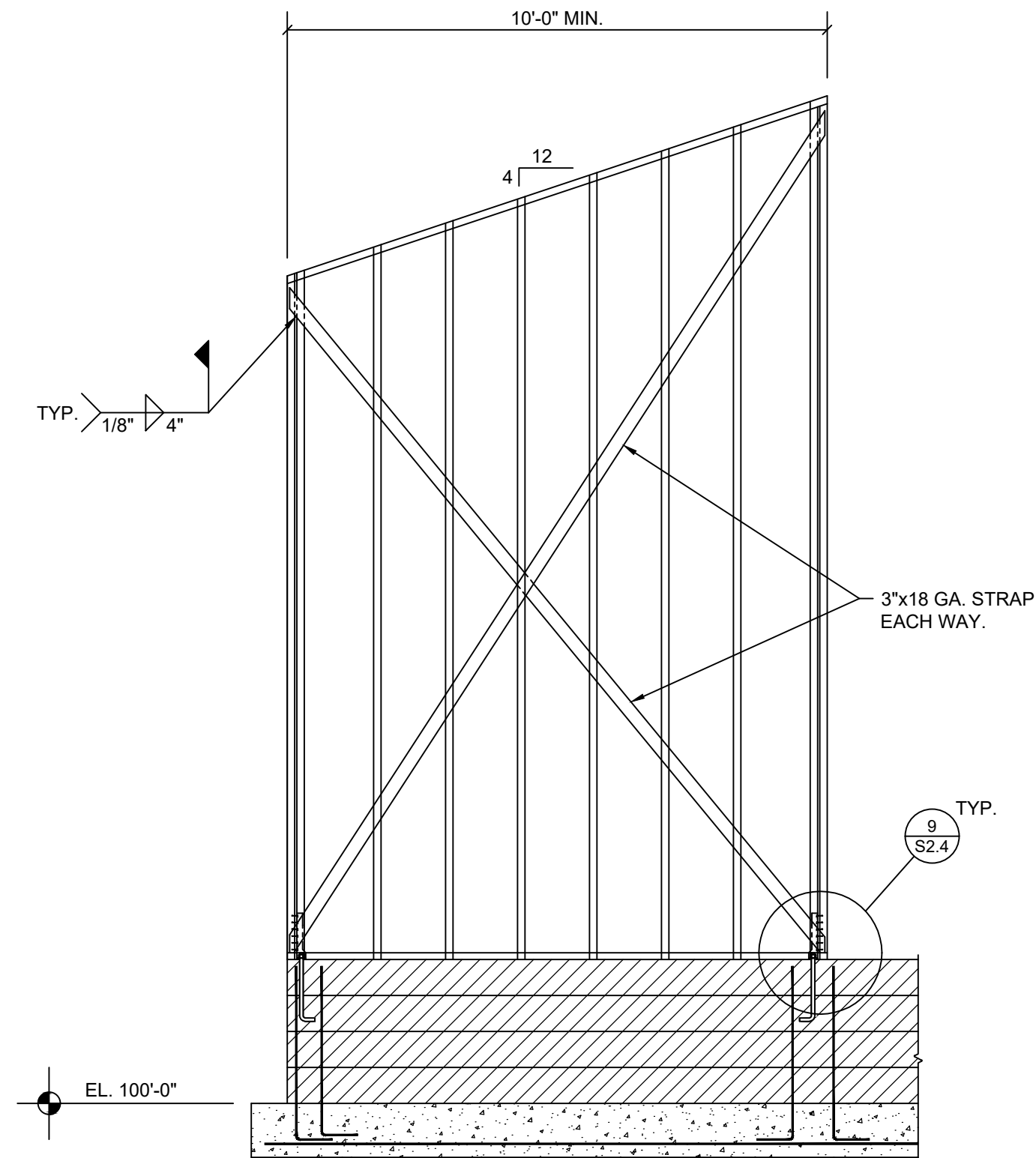
1	REINFORCING
4"	6x6 - W1.4/W1.4 WWF
6"	6x6 - W2.9/W2.9 WWF
8"	#4 @ 12" O.C. E.W.



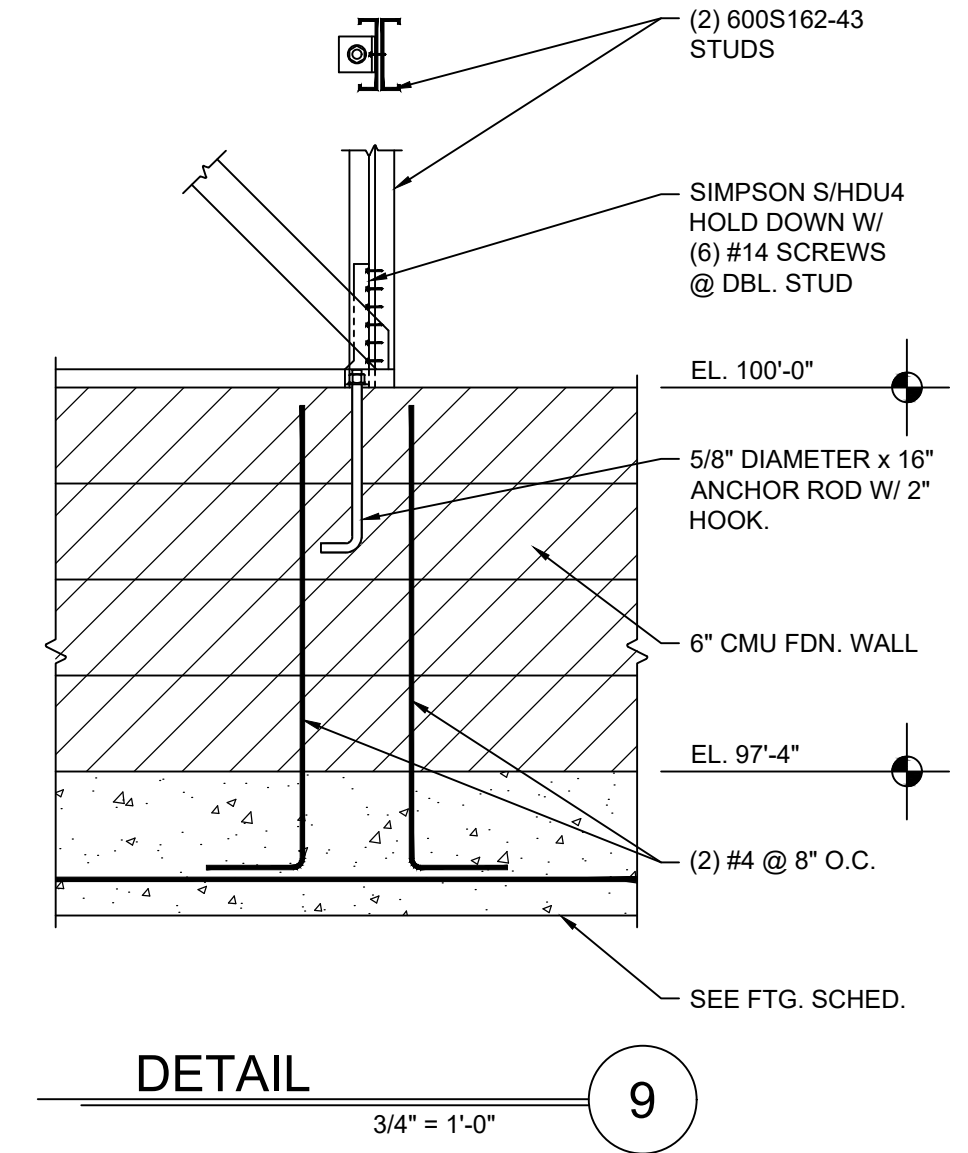
TYPICAL EXTERIOR MECHANICAL EQUIPMENT PAD



HOSE DRYING RACK

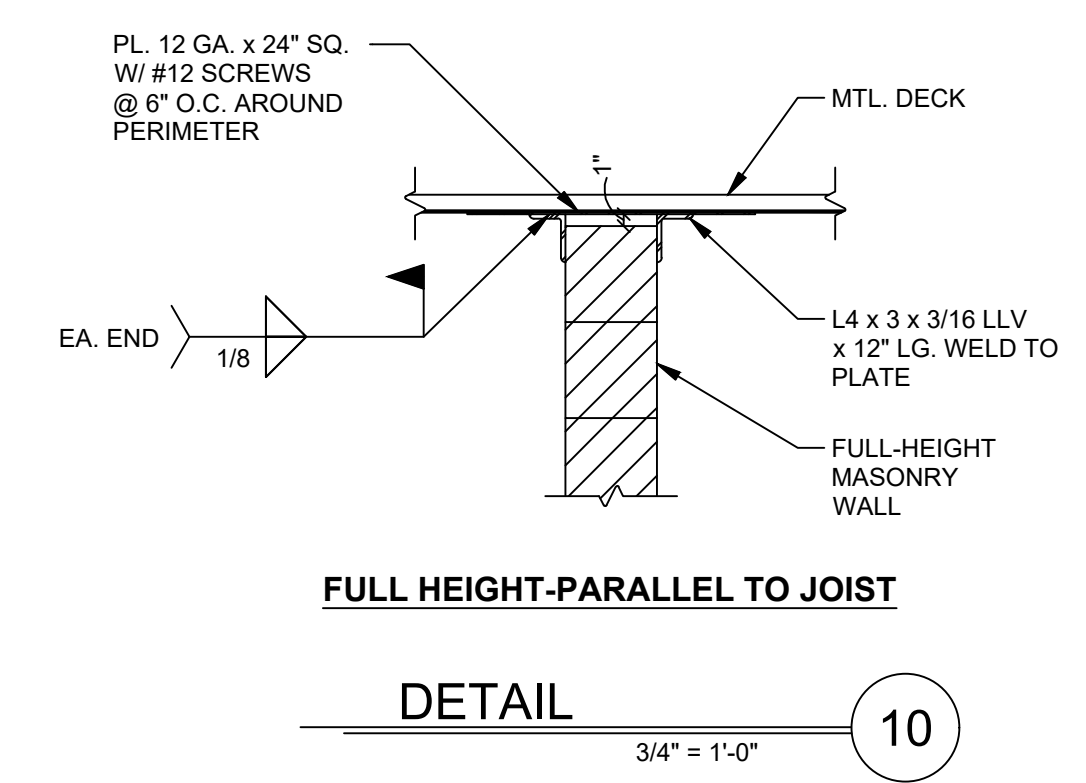


ELEVATION 8

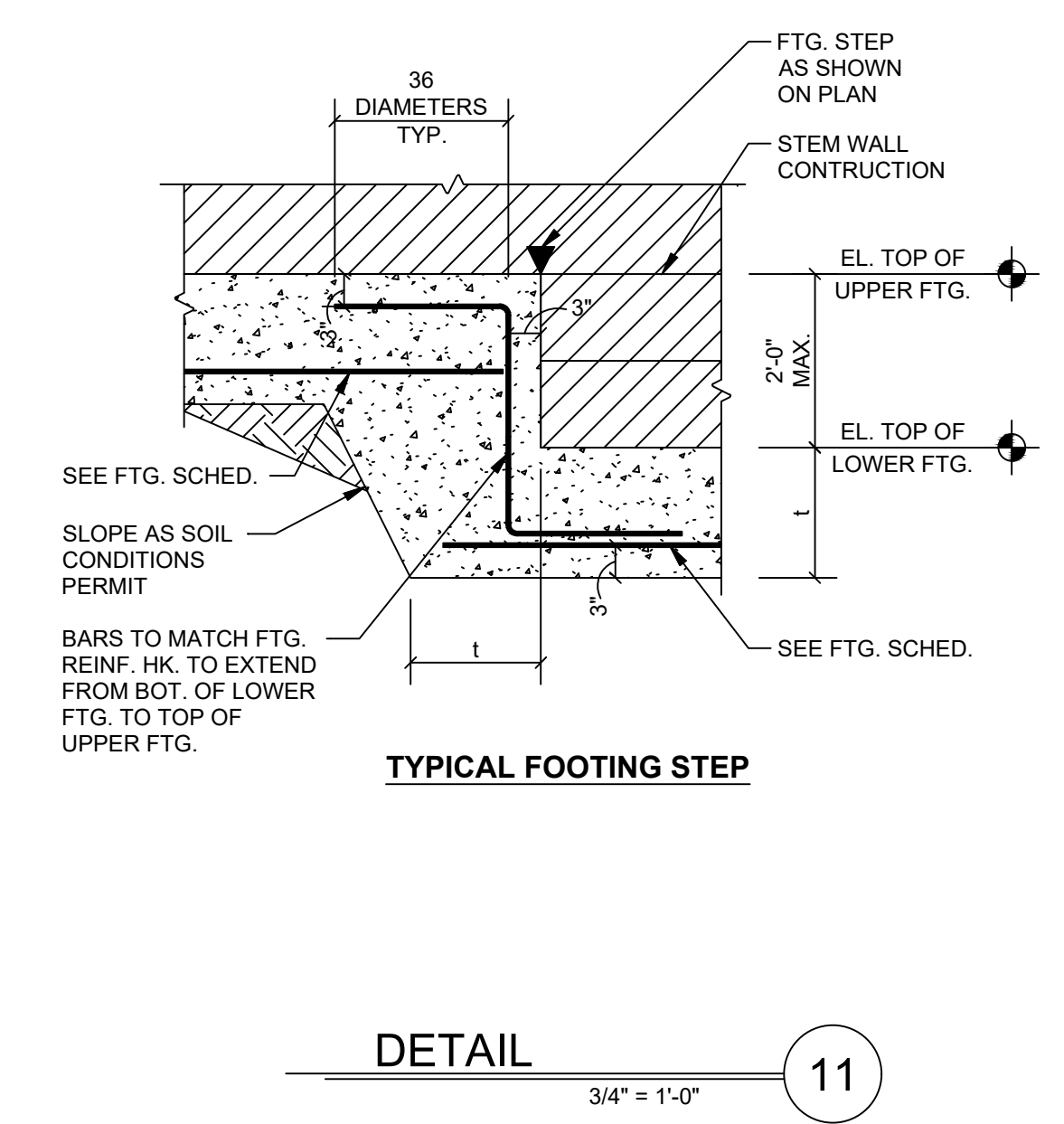


DETAIL 9

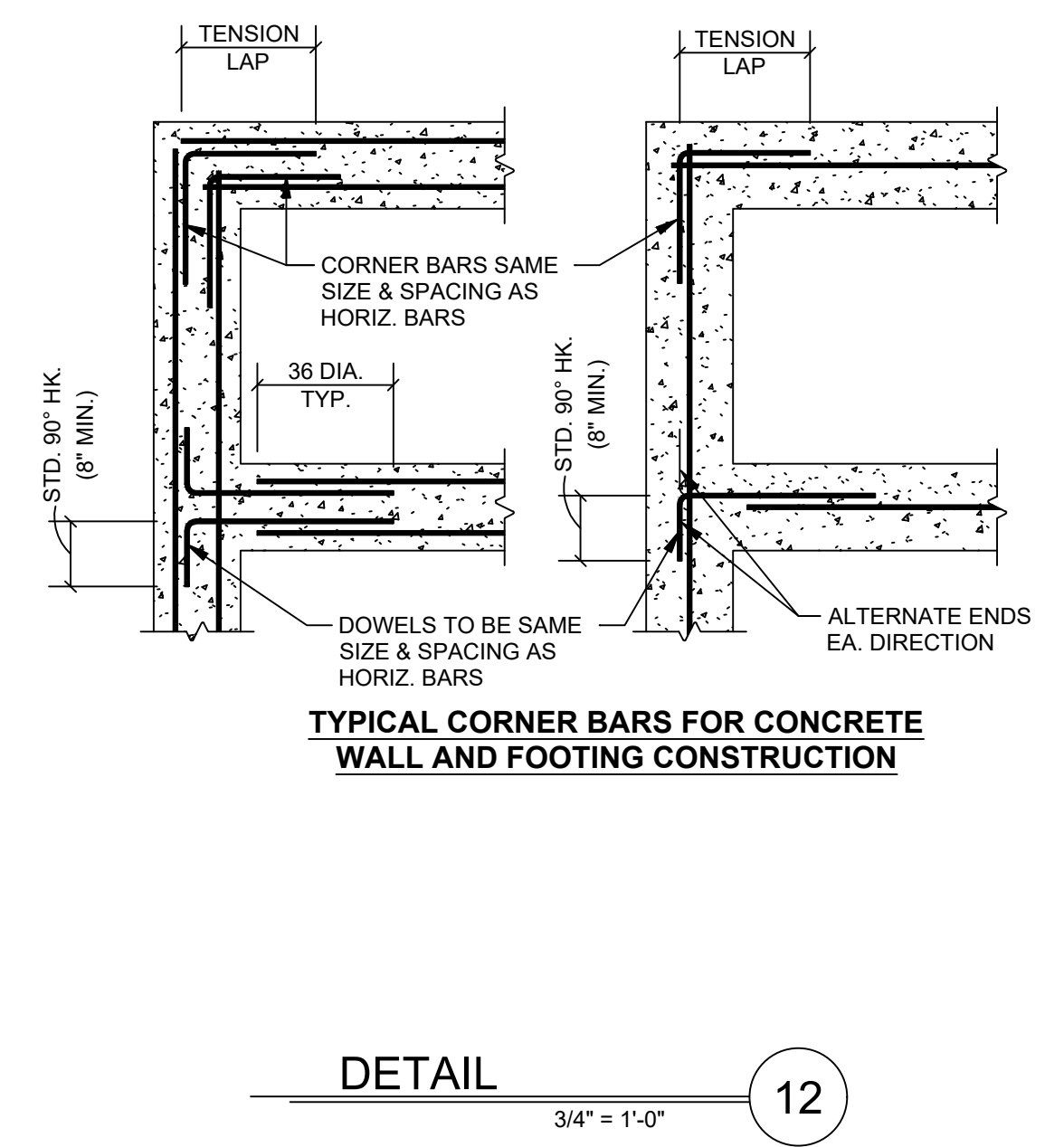
NOTE:
WALL BRACES ARE TO BE SPACED A 18x THE NOMINAL WALL WIDTH FOR ALL INTERIOR MASONRY PARTITIONS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT AT A CLOSER SPACING
4"CMU = 6'-0" O.C.
6"CMU = 9'-0" O.C.
8"CMU = 12'-0" O.C.
10"CMU = 15'-0" O.C.
12"CMU = 18'-0" O.C.
WALL BRACES MUST ALSO BE INSTALLED AT THE FREE ENDS OF WALLS WHERE CROSSWALLS ARE NOT PRESENT AT ONE-THIRD THE ABOVE SPACING



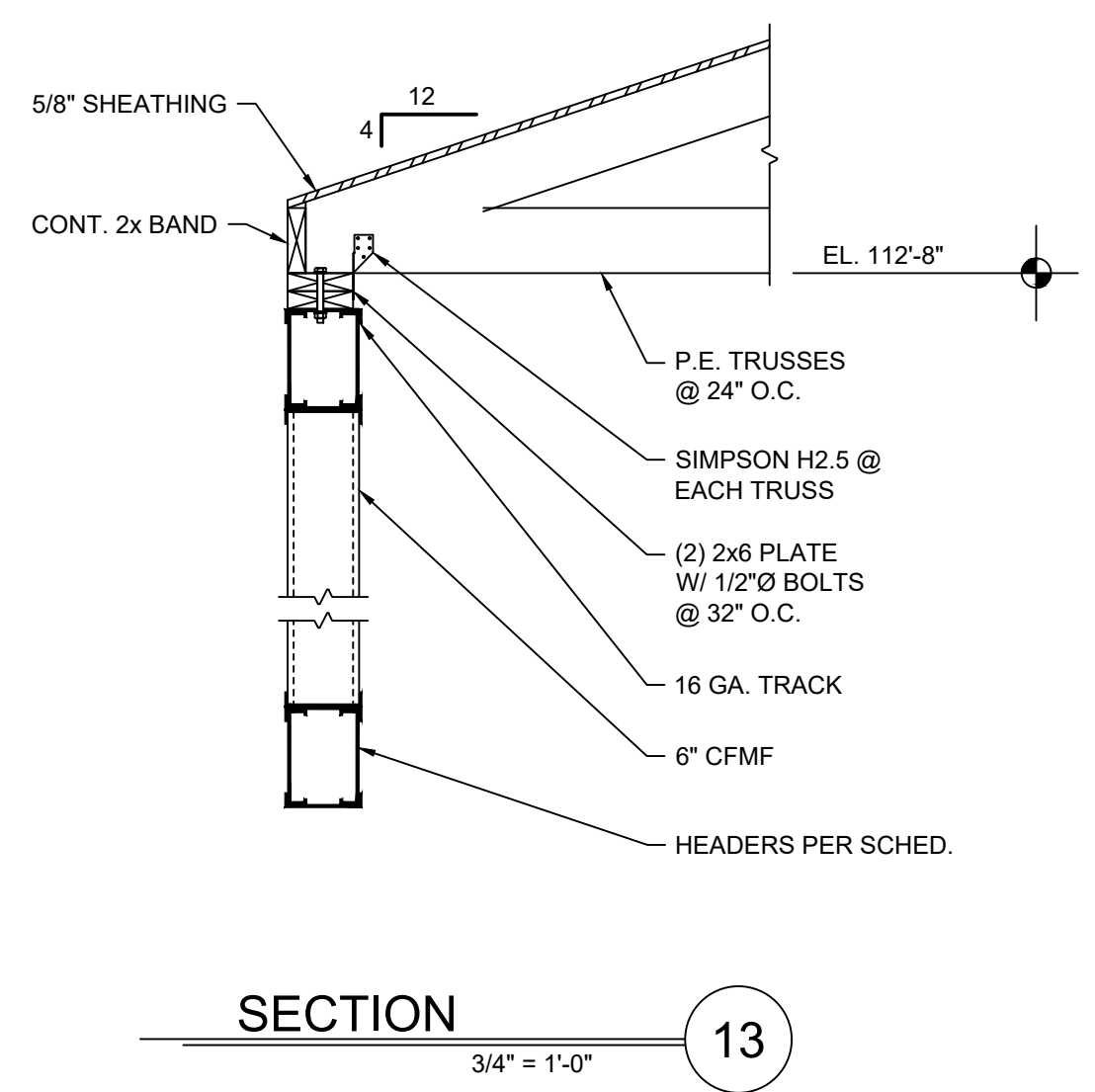
FULL HEIGHT-PARALLEL TO JOIST



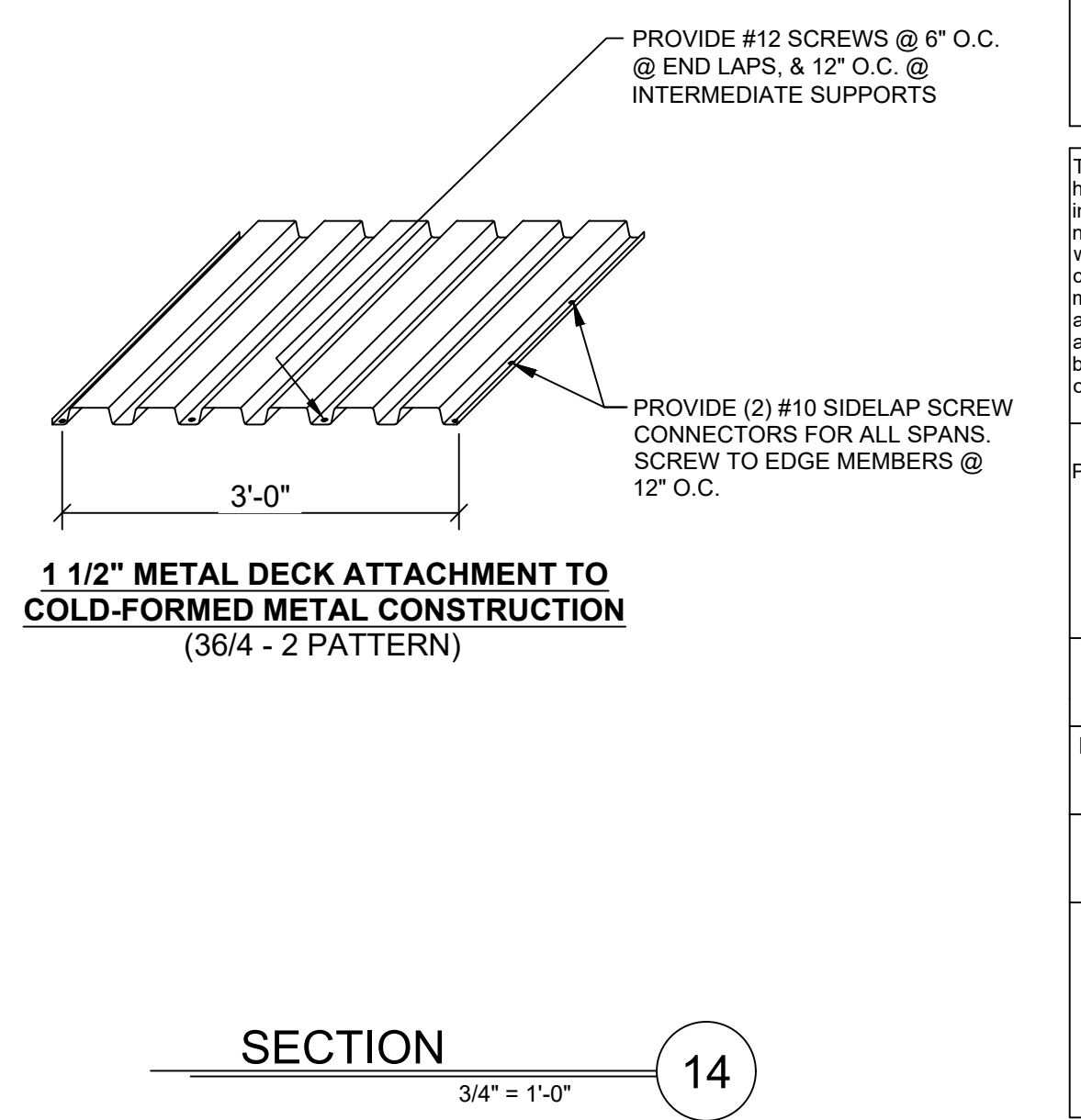
TYPICAL FOOTING STEP



TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION



SECTION 13



1 1/2" METAL DECK ATTACHMENT TO COLD-FORMED METAL CONSTRUCTION (36/4 - 2 PATTERN)

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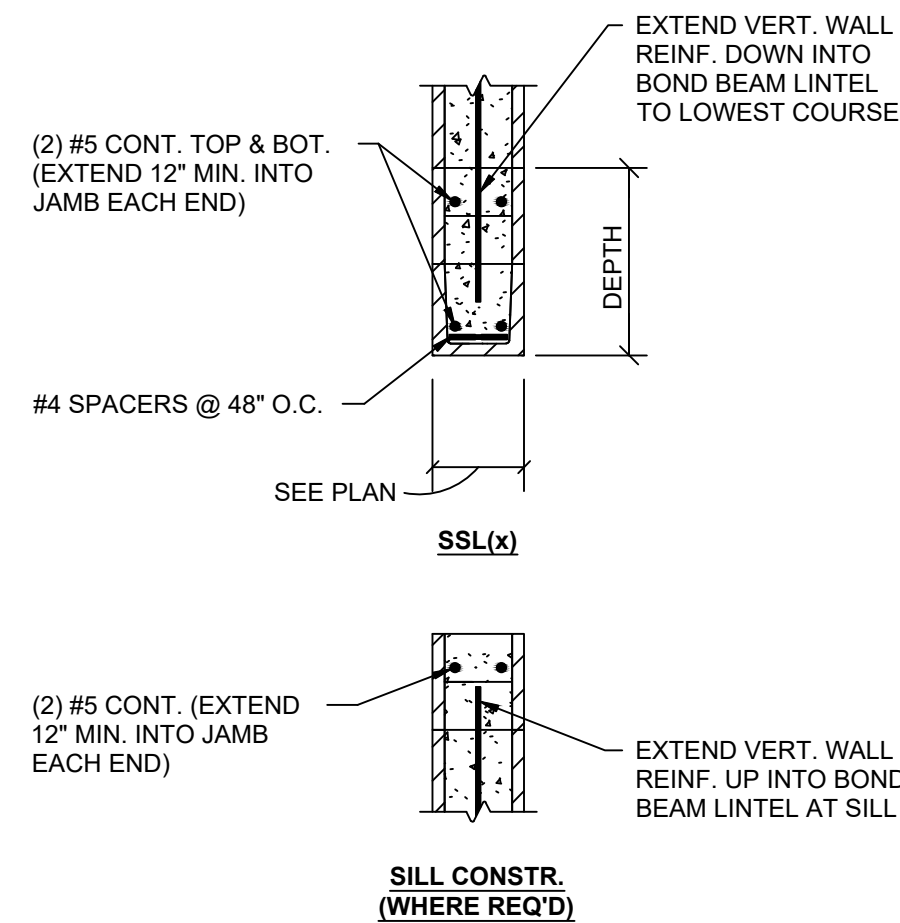
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FOUNDATION DETAILS

S2.4

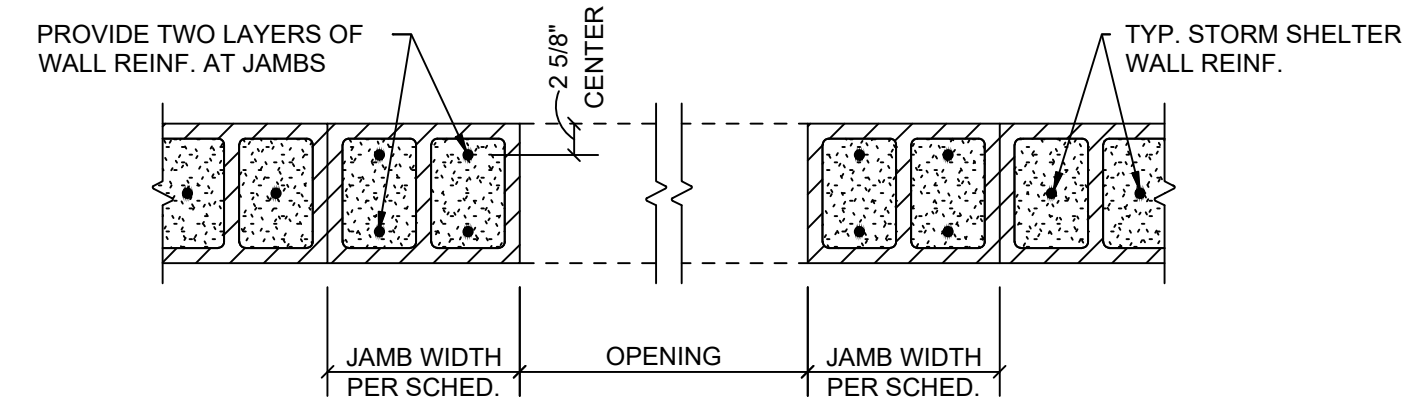
STORM SHELTER LINTELS



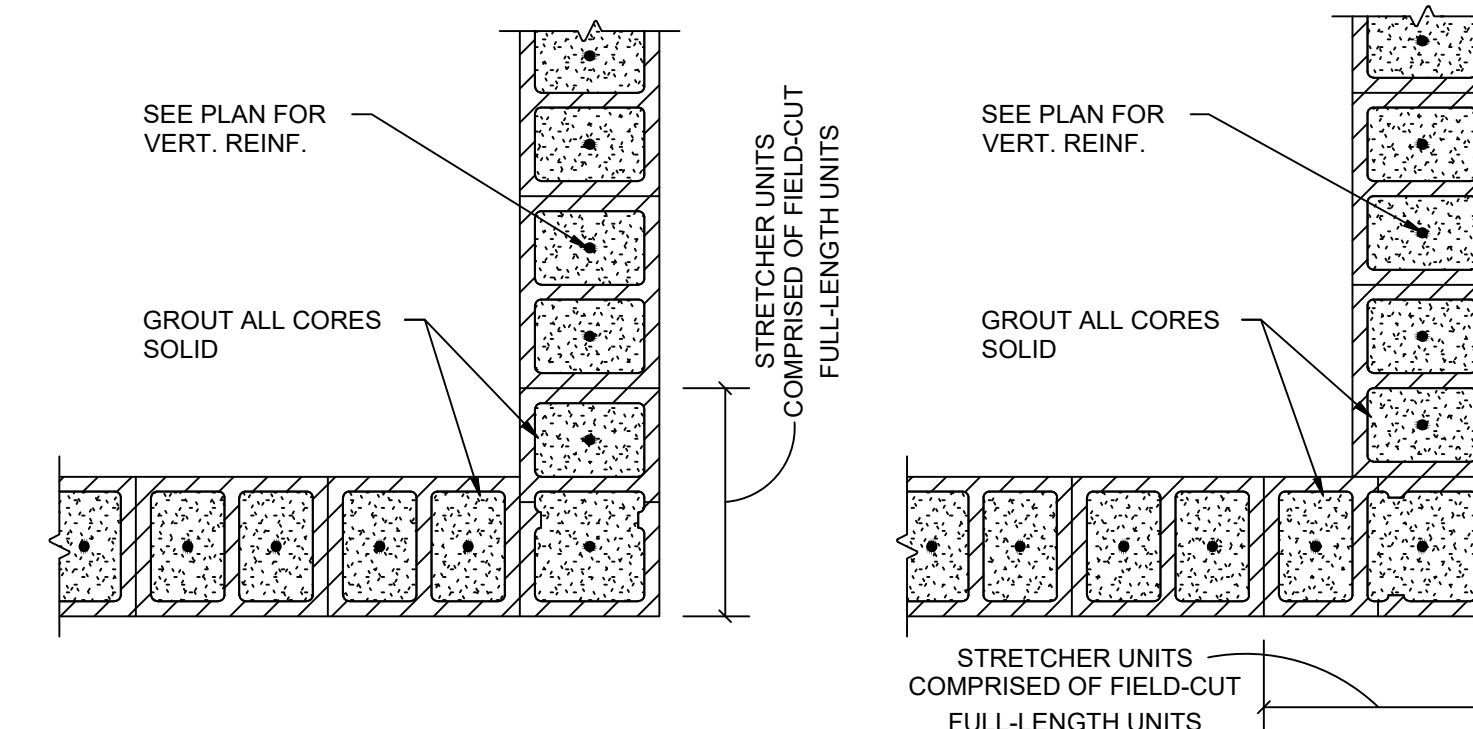
MARK	DEPTH (d)	JAMB WIDTH
SSL1	8"	8"
SSL2	1'-4"	1'-4"
SSL3	2'-0"	2'-0"

STORM SHELTER LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
3. PROVIDE 16" MINIMUM BEARING EACH END. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
4. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
5. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATIONS.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. 14" LINTELS MAY BE MADE-UP OF TWO PIECES IF 14" BOND BEAM UNITS ARE NOT AVAILABLE.

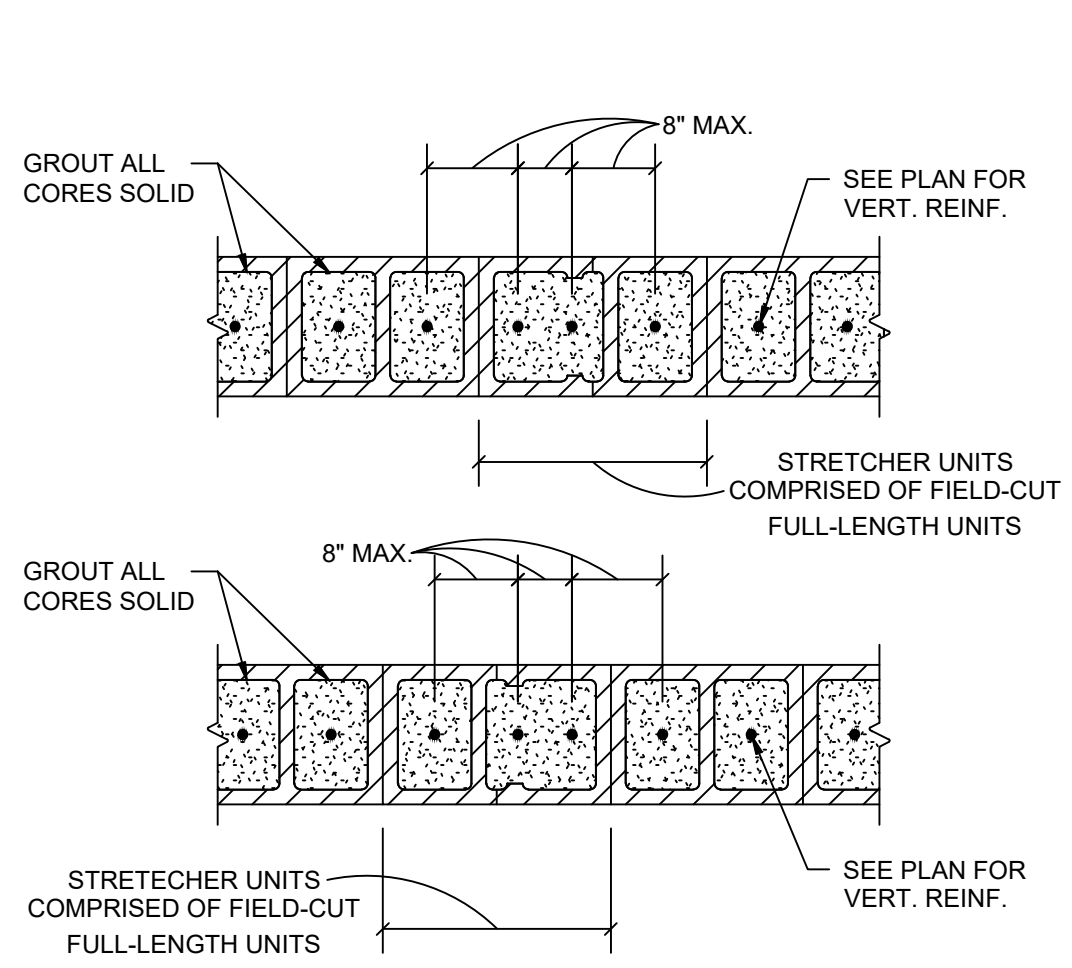


TYPICAL STORM SHELTER OPENING JAMB CONSTRUCTION



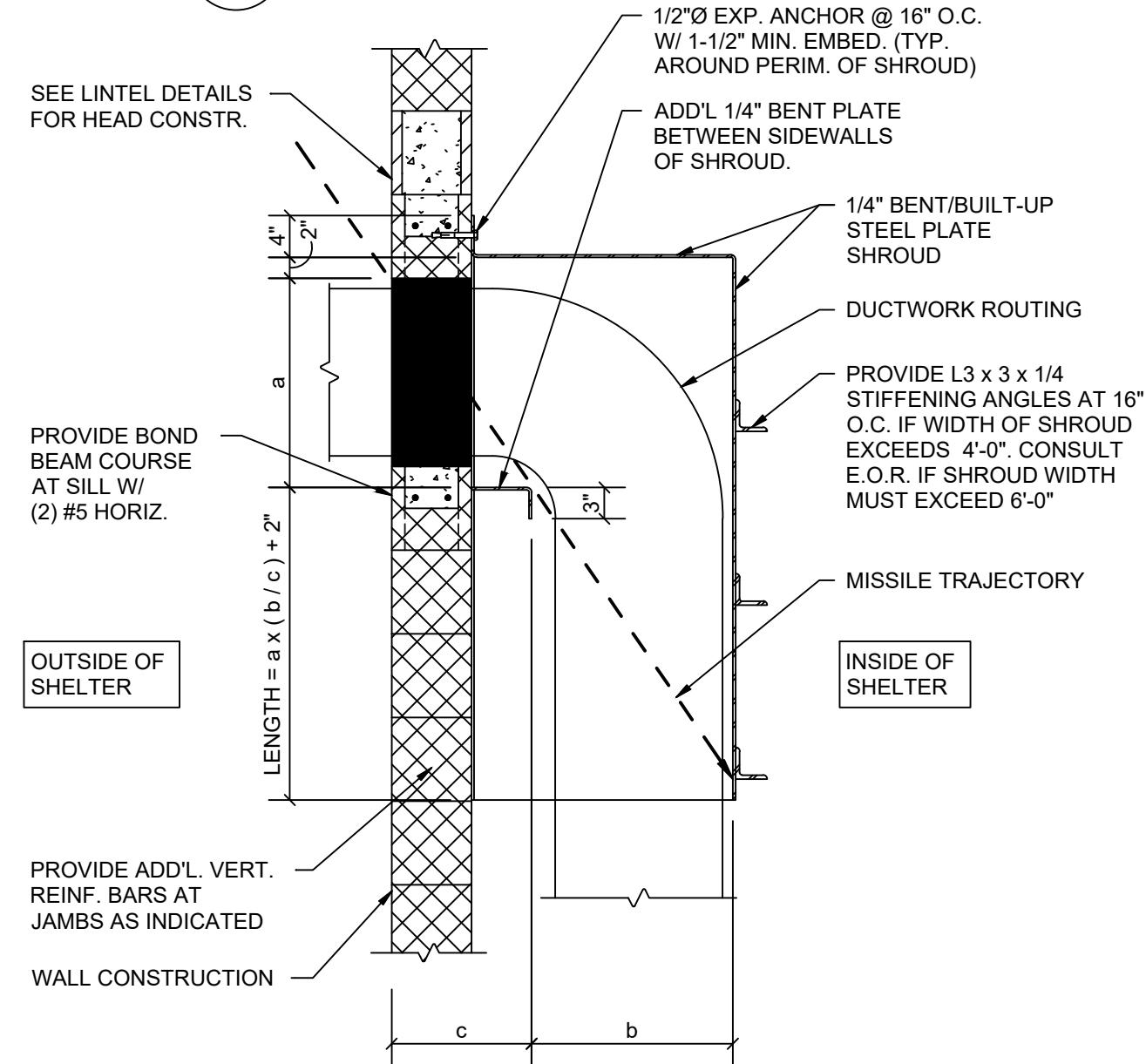
TYPICAL STORM SHELTER CORNER CONSTRUCTION

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



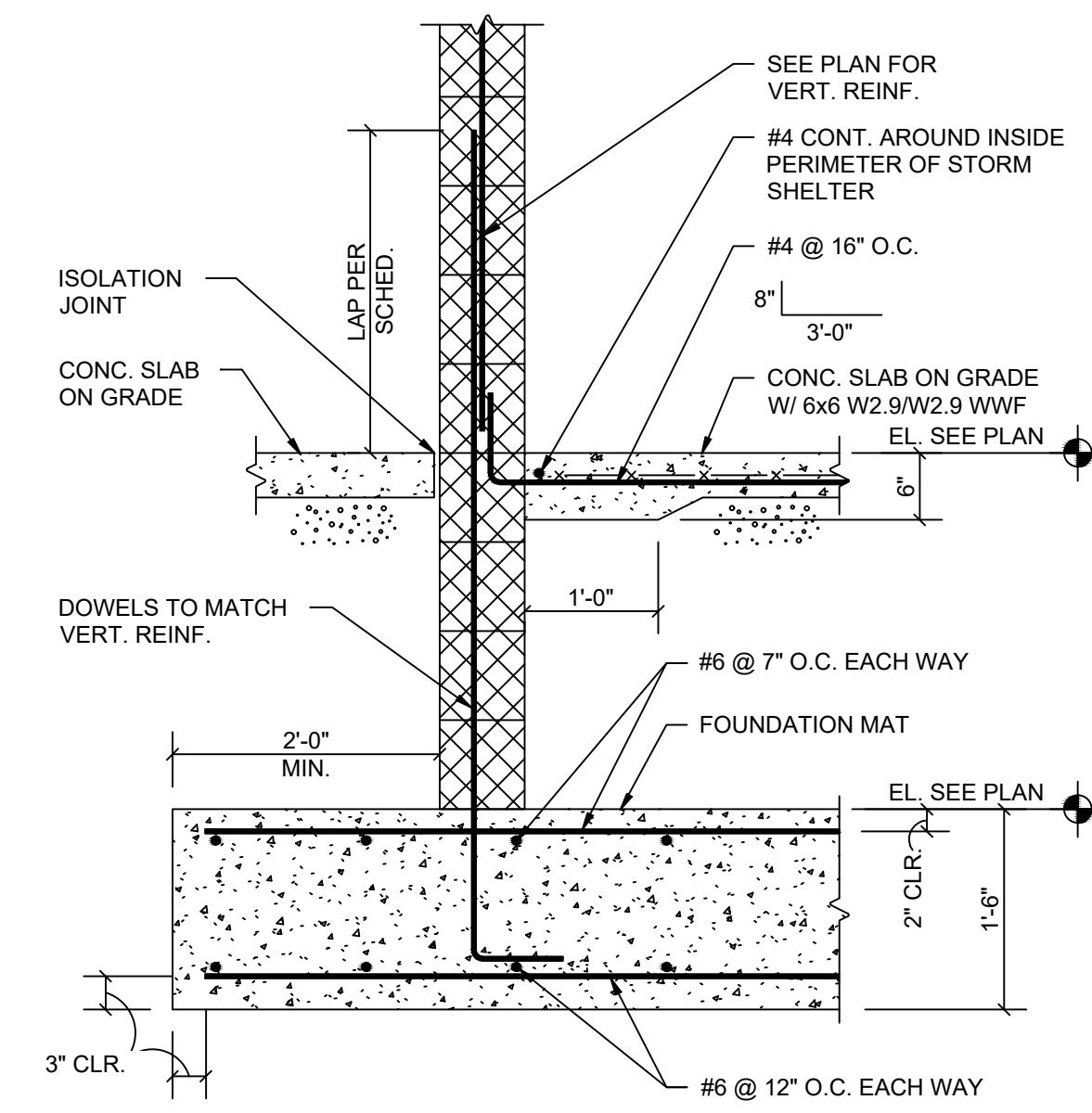
TYPICAL STORM SHELTER STRETCHER CONSTRUCTION

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



STORM SHELTER WALL OPENING PLATE SHROUD (VERTICAL WALL SECTION)

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

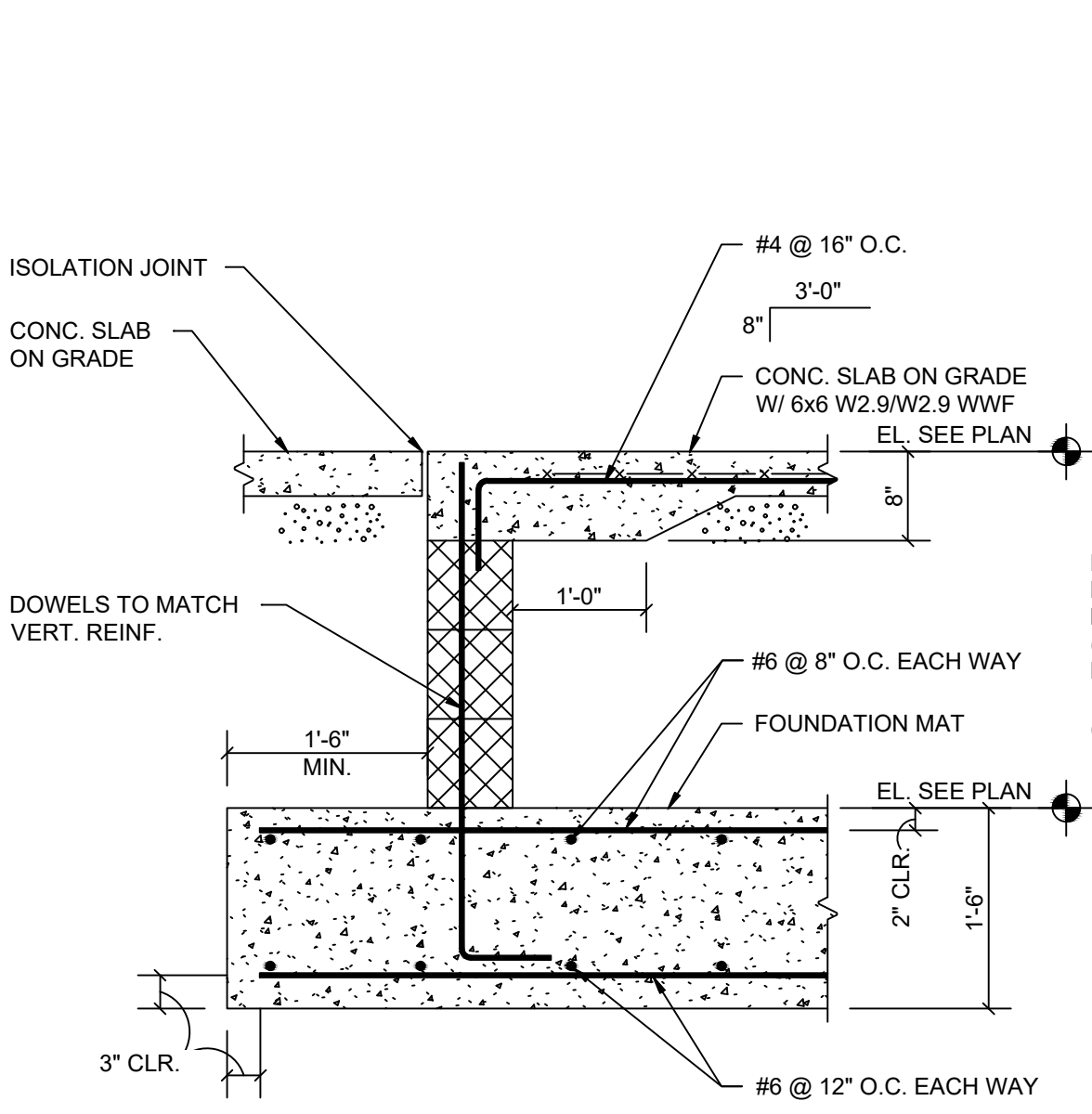


STORM SHELTER WALL OPENING PLATE SHROUD (HORIZONTAL PLAN DETAIL)

- NOTES:
1. PLATE SHROUDS ARE REQUIRED FOR ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER
 2. SHROUD MAY BE ORIENTED IN ANY DIRECTION
 3. CONSULT ENGINEER OF RECORD IF SHROUD DIMENSIONS MUST DEVIATE FROM THOSE INDICATED

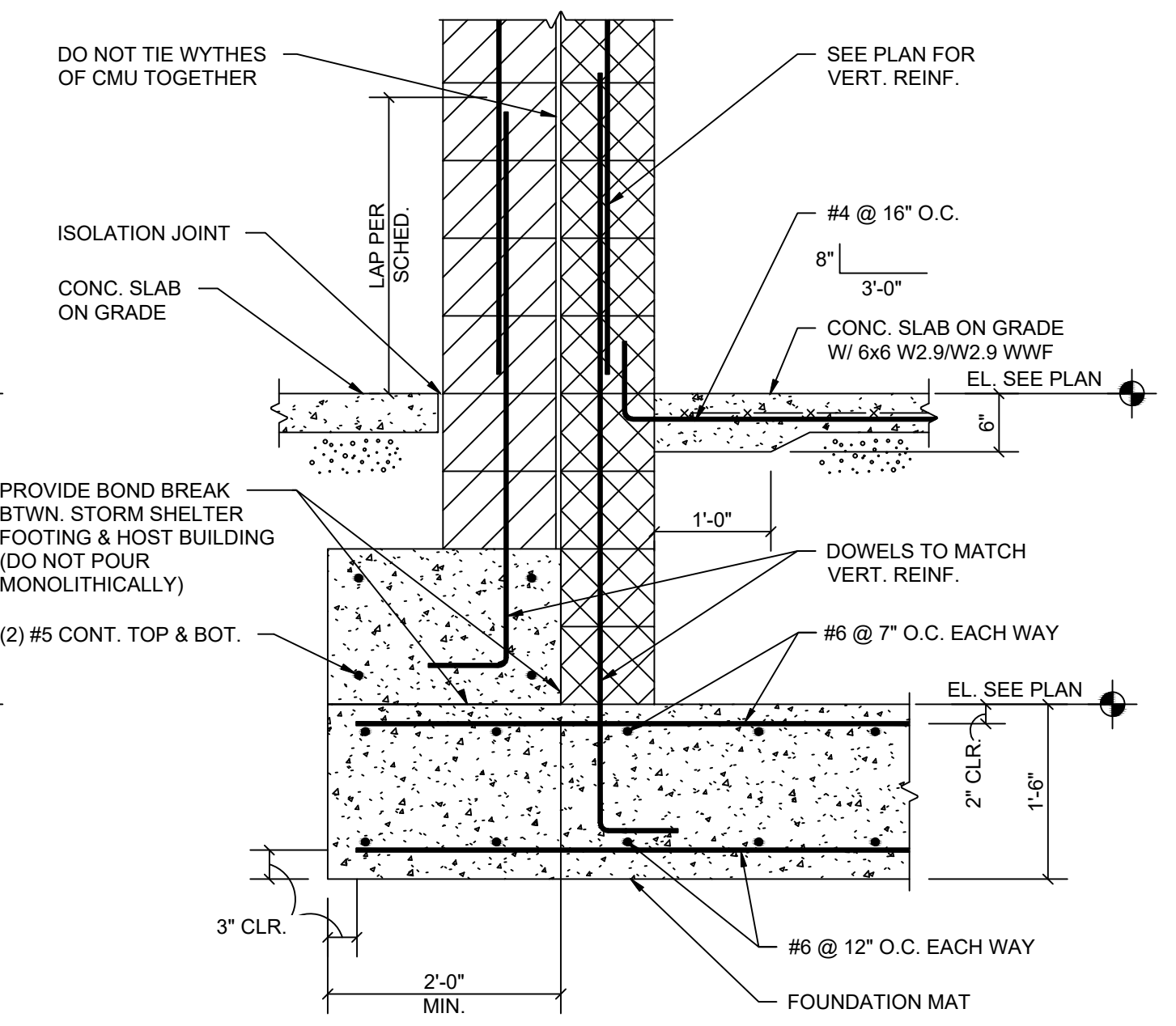
- NOTES:
1. PLATE SHROUDS ARE REQUIRED FOR ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER
 2. SHROUD MAY BE ORIENTED EITHER UP OR DOWN
 3. CONSULT ENGINEER OF RECORD IF SHROUD DIMENSIONS MUST DEVIATE FROM THOSE INDICATED

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



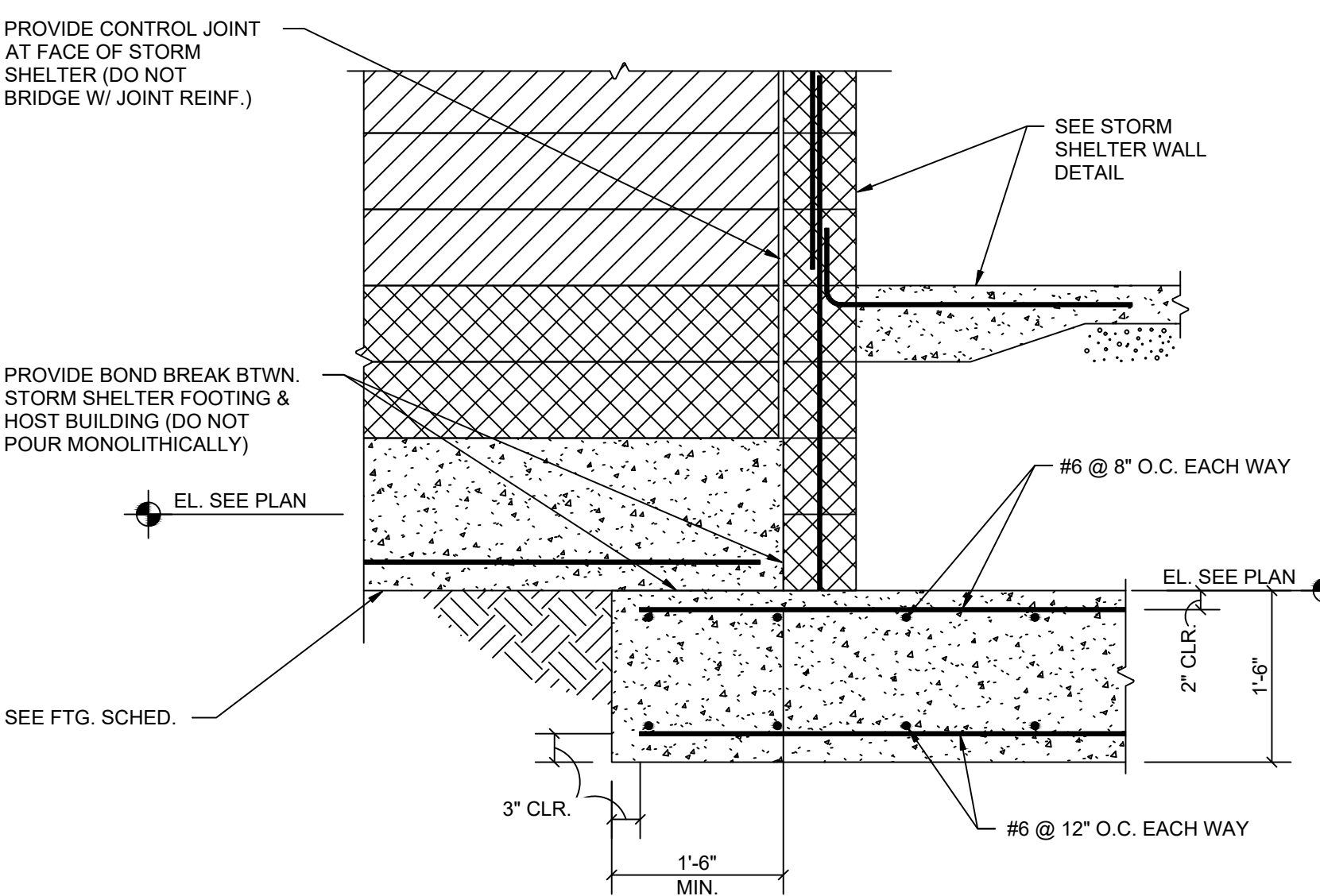
SECTION 8
3/4" = 1'-0"

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



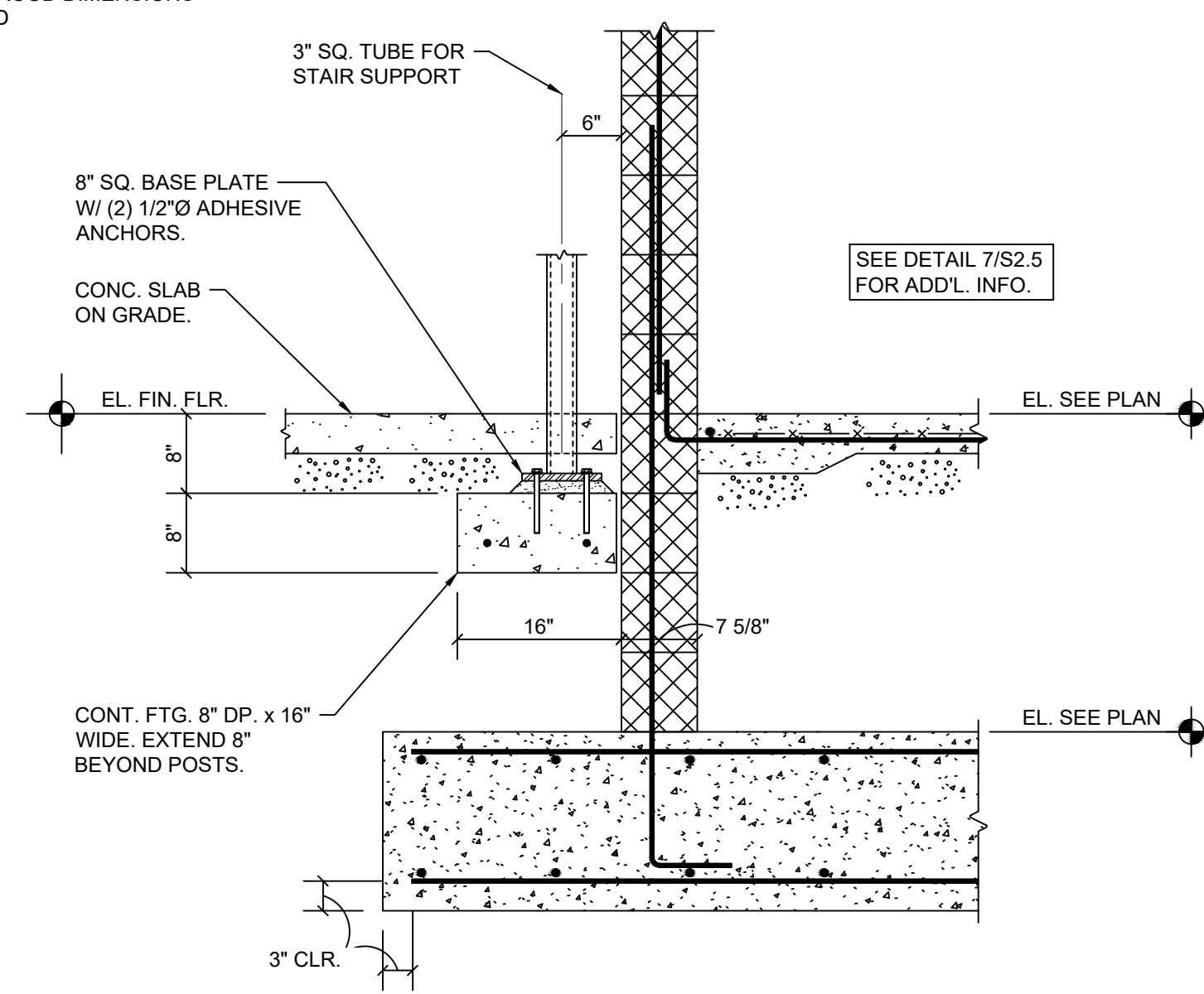
SECTION 9
3/4" = 1'-0"

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



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

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



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

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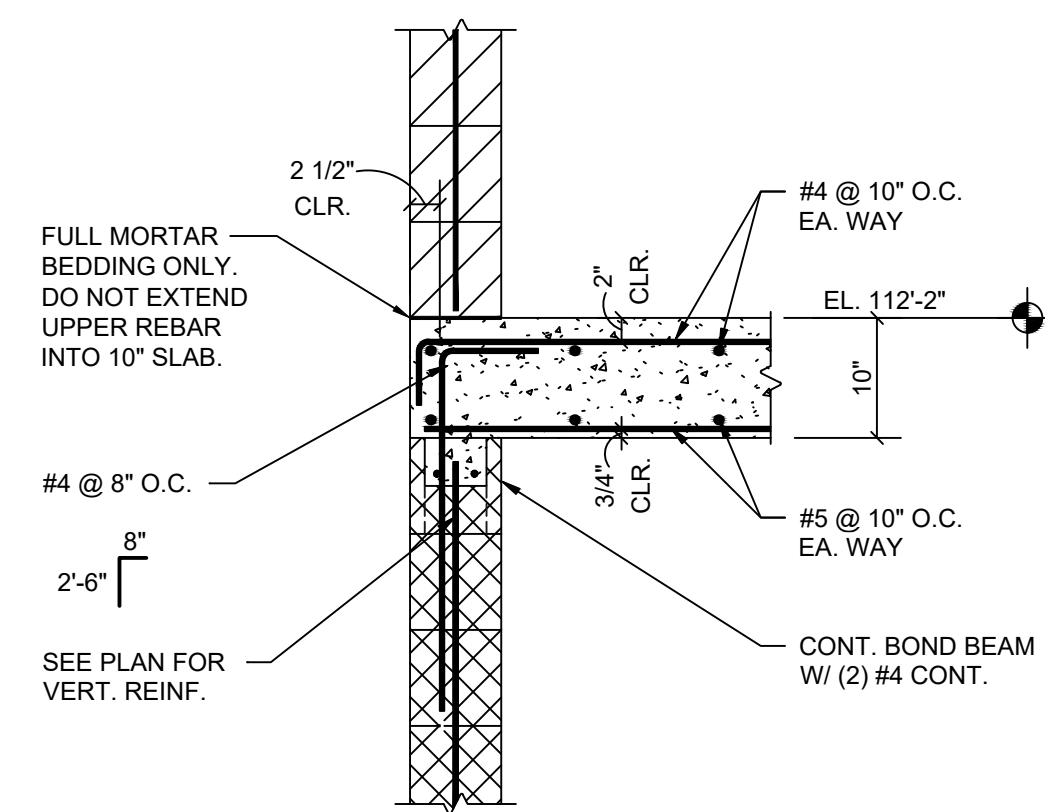
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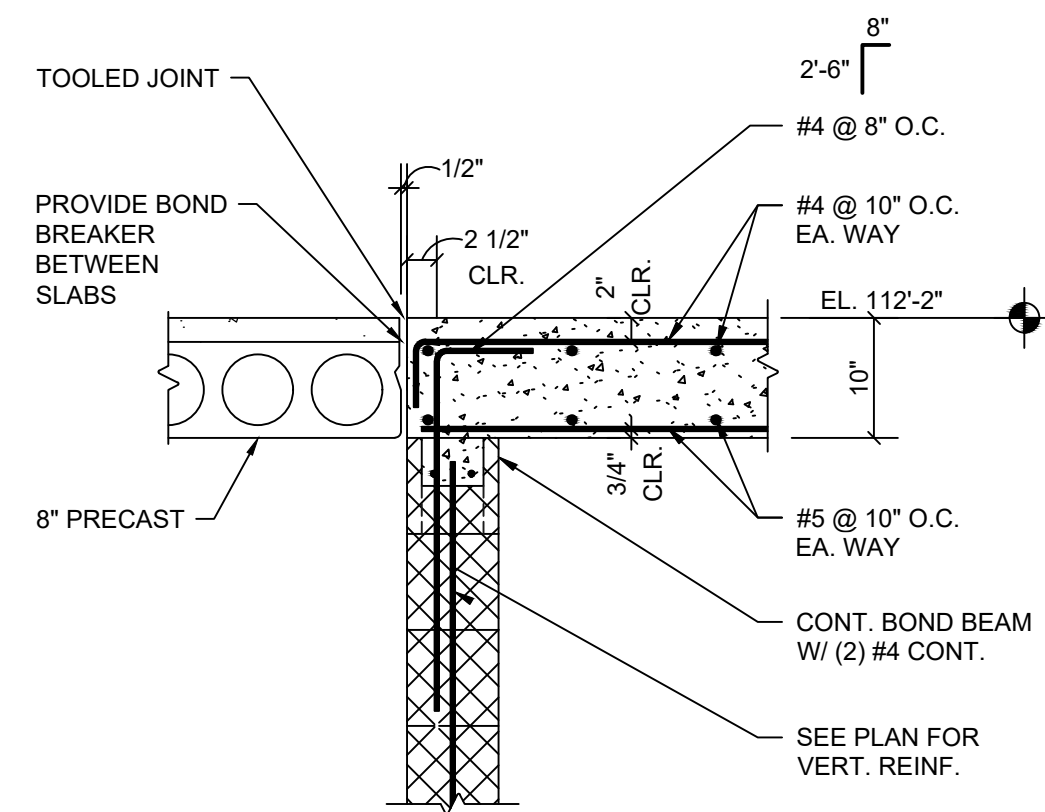
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CAD	REG

STRUCTURAL DETAILS

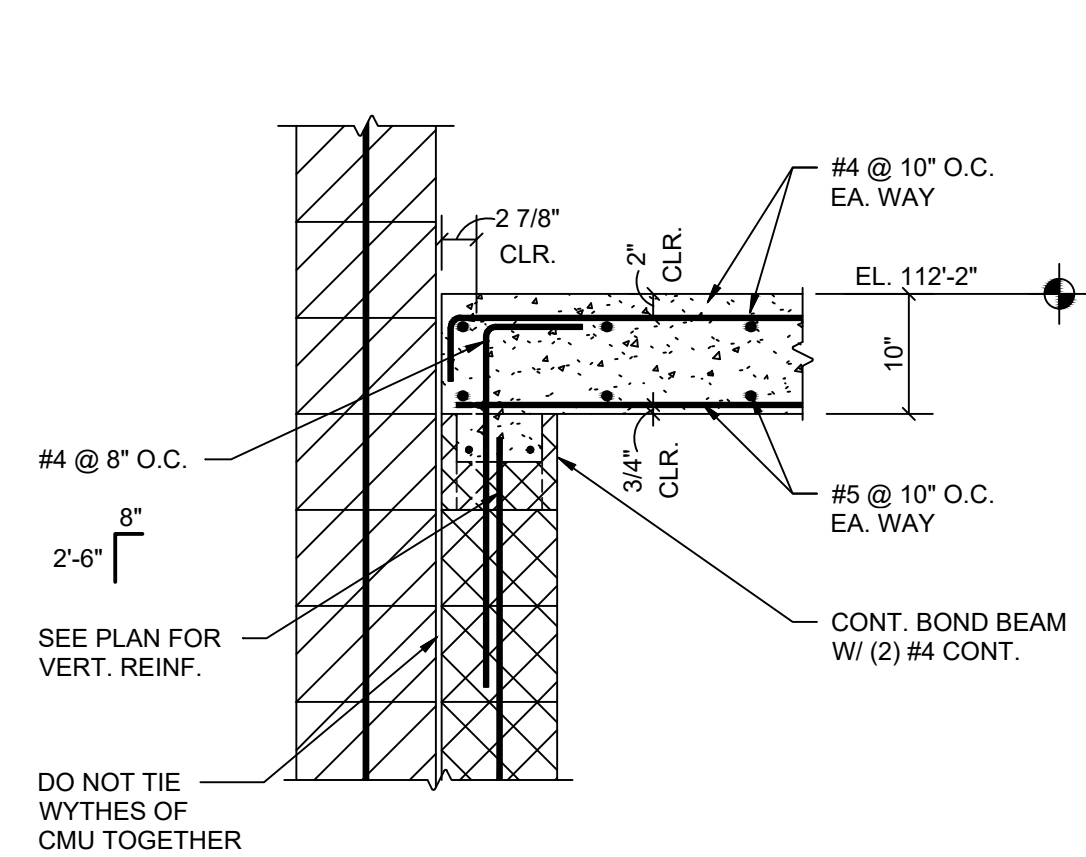
S2.5



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



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



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

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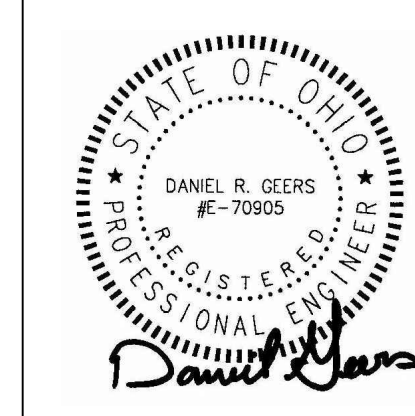
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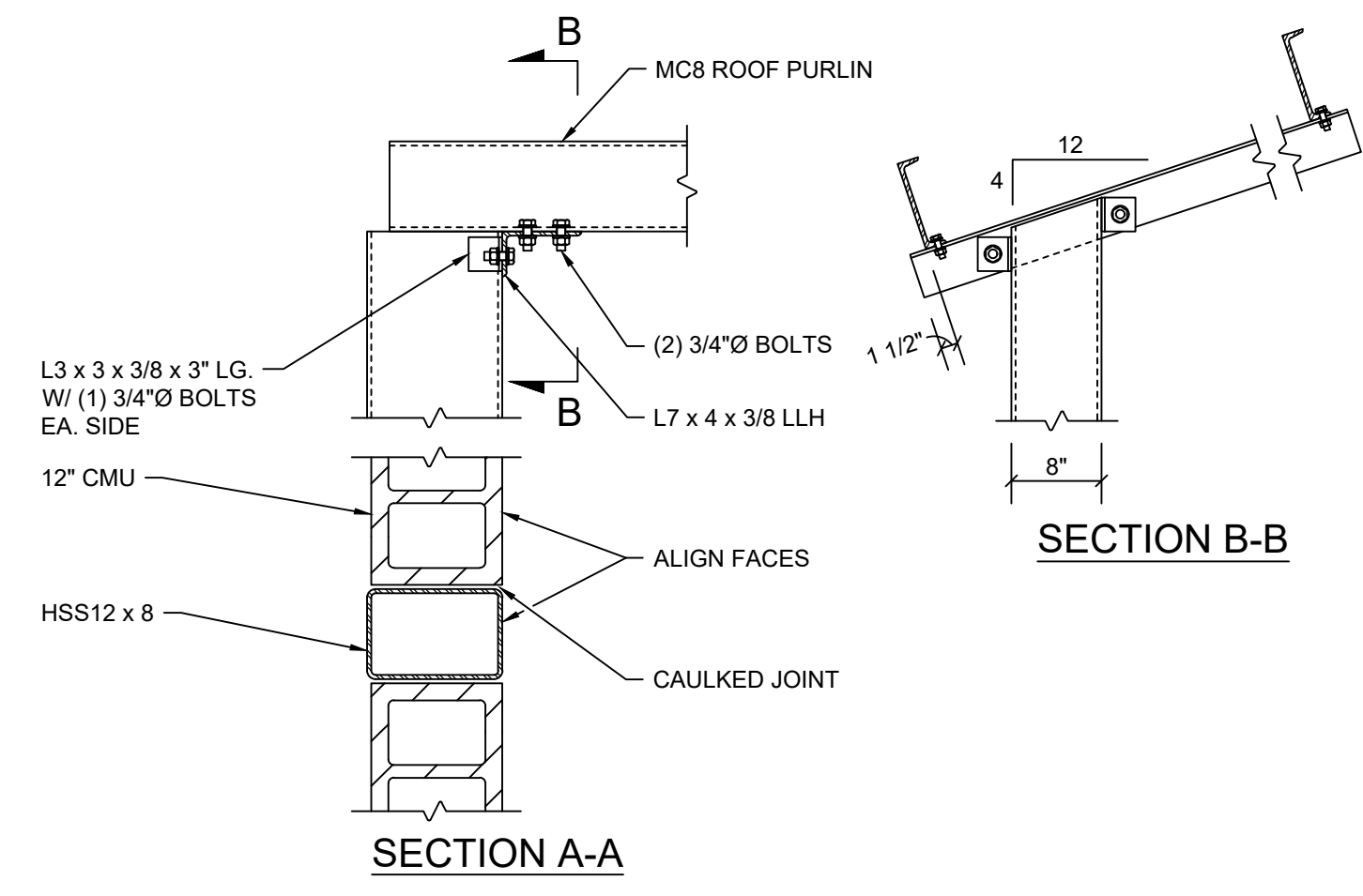
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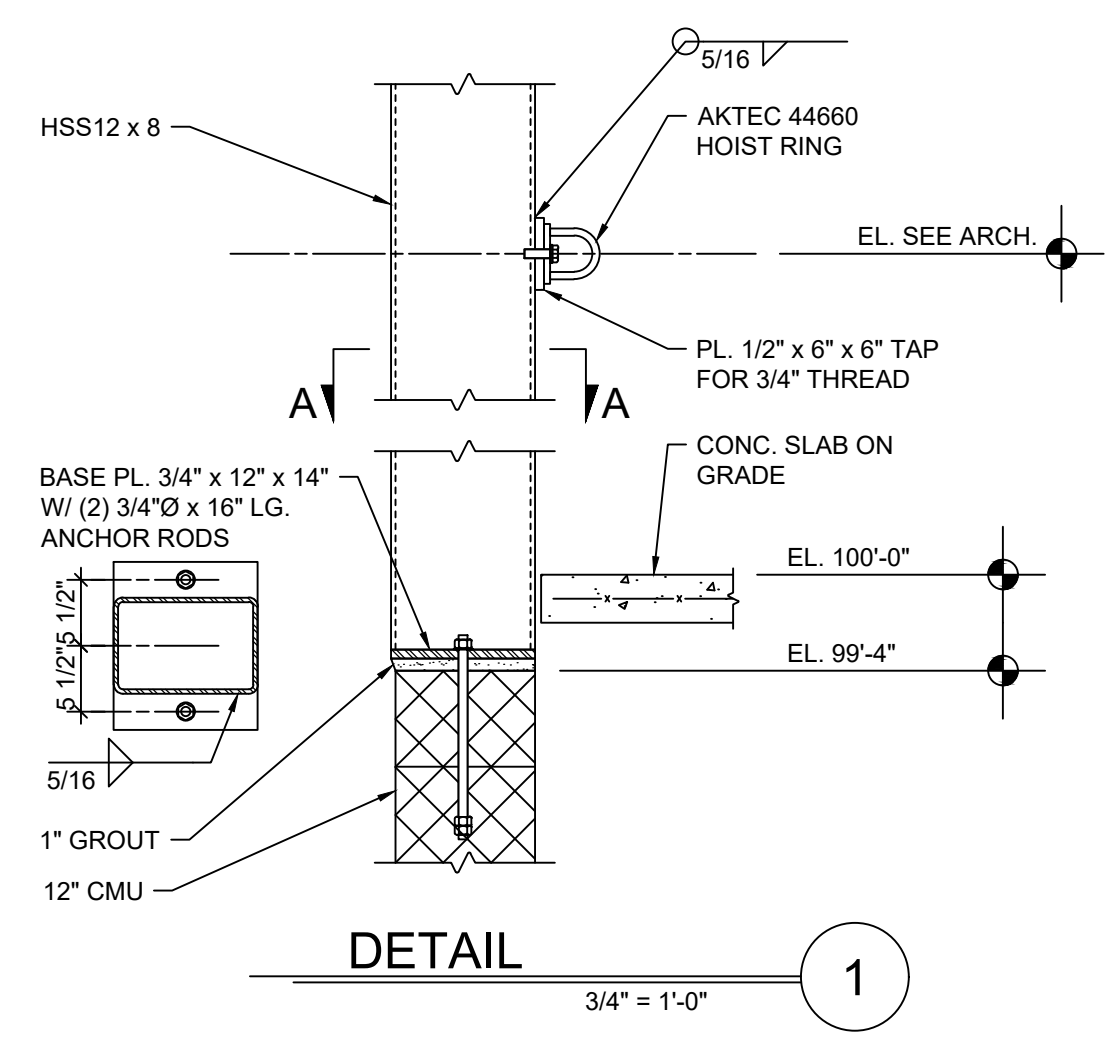
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FRAMING DETAILS

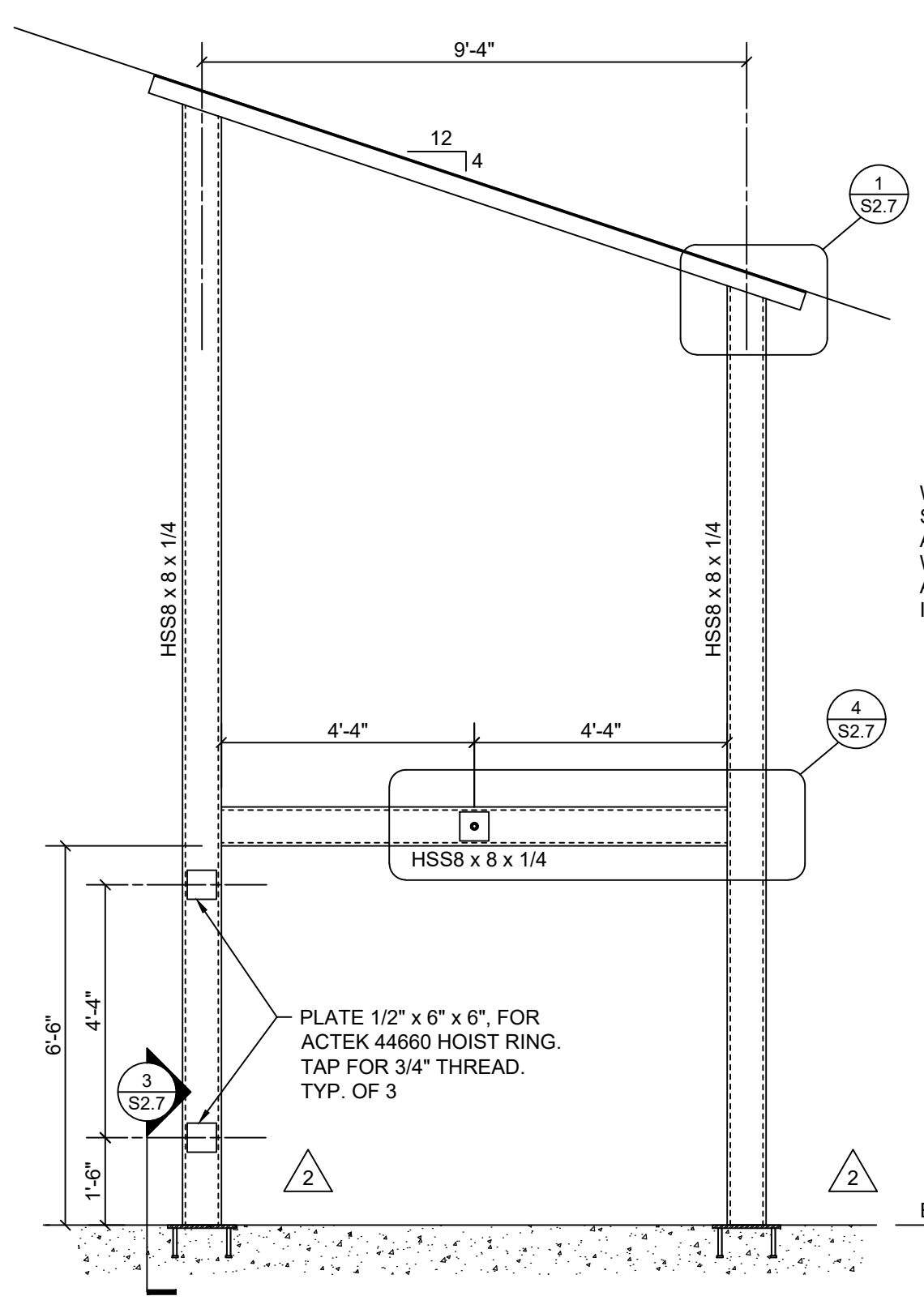
S2.6



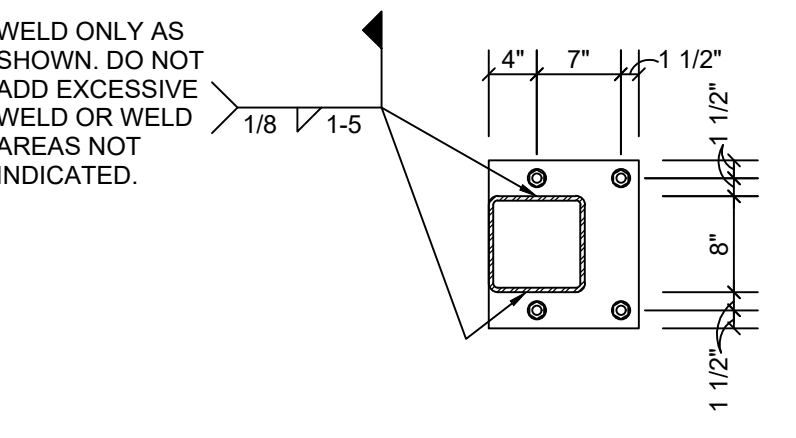
SECTION A-A



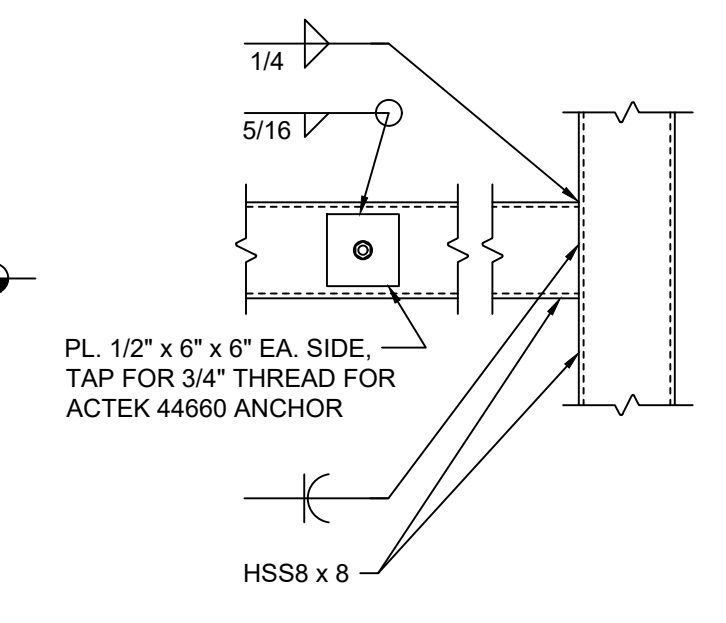
DETAIL 1
3/4" = 1'-0"



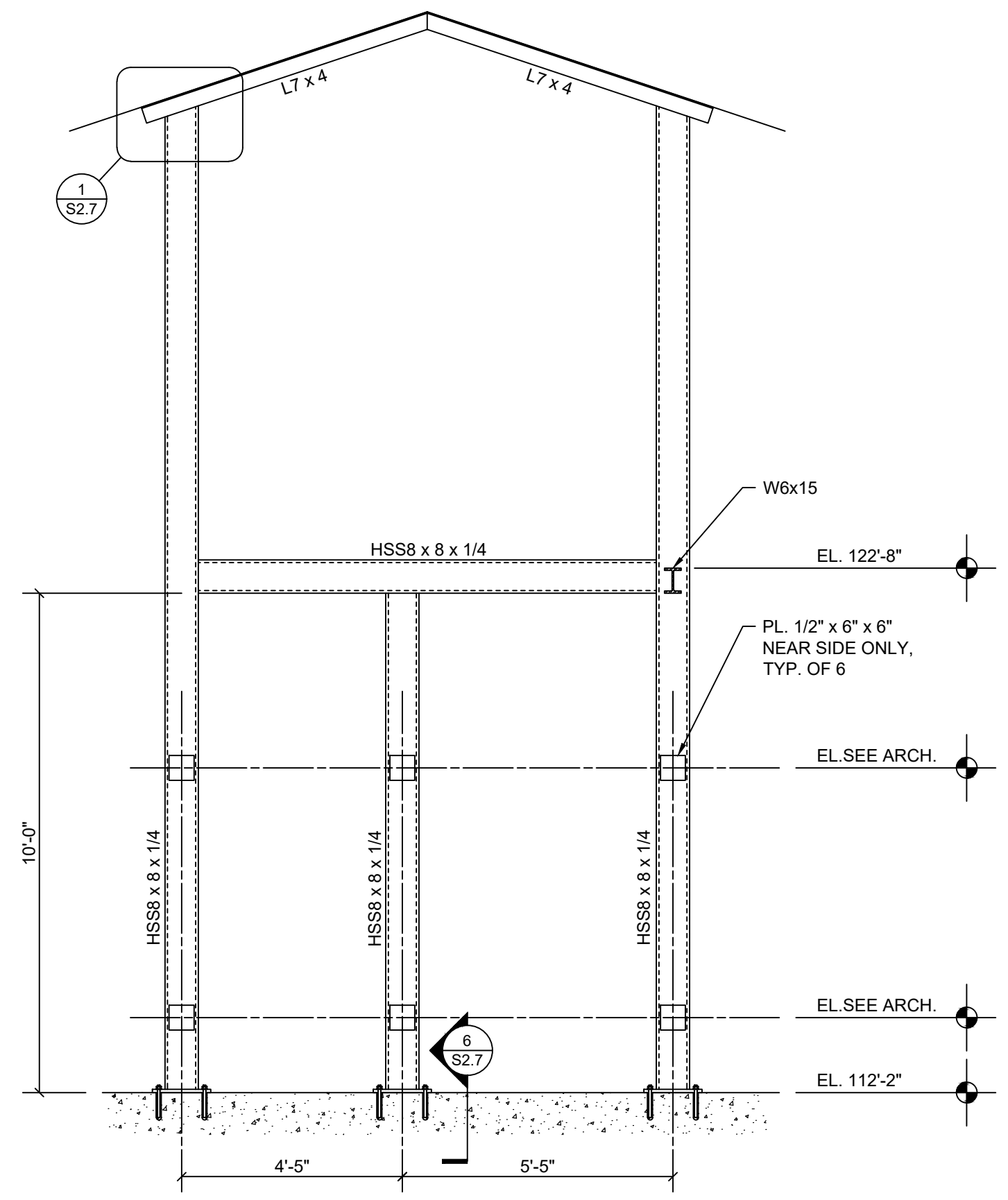
ELEVATION 2
3/8" = 1'-0"



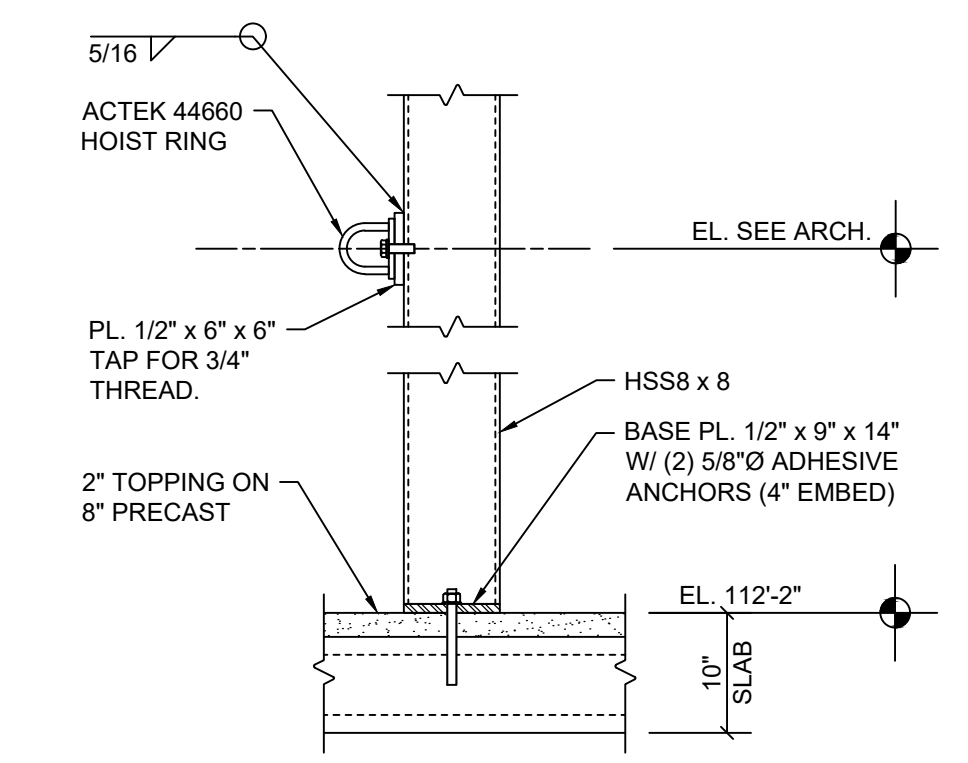
DETAIL 3
3/4" = 1'-0"



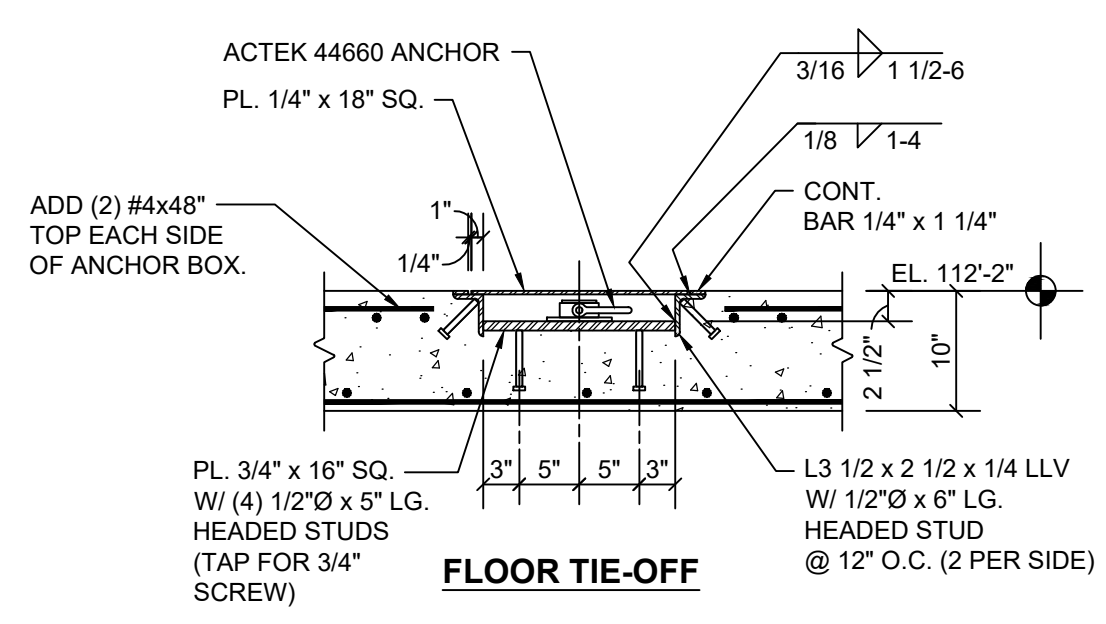
DETAIL 4
3/4" = 1'-0"



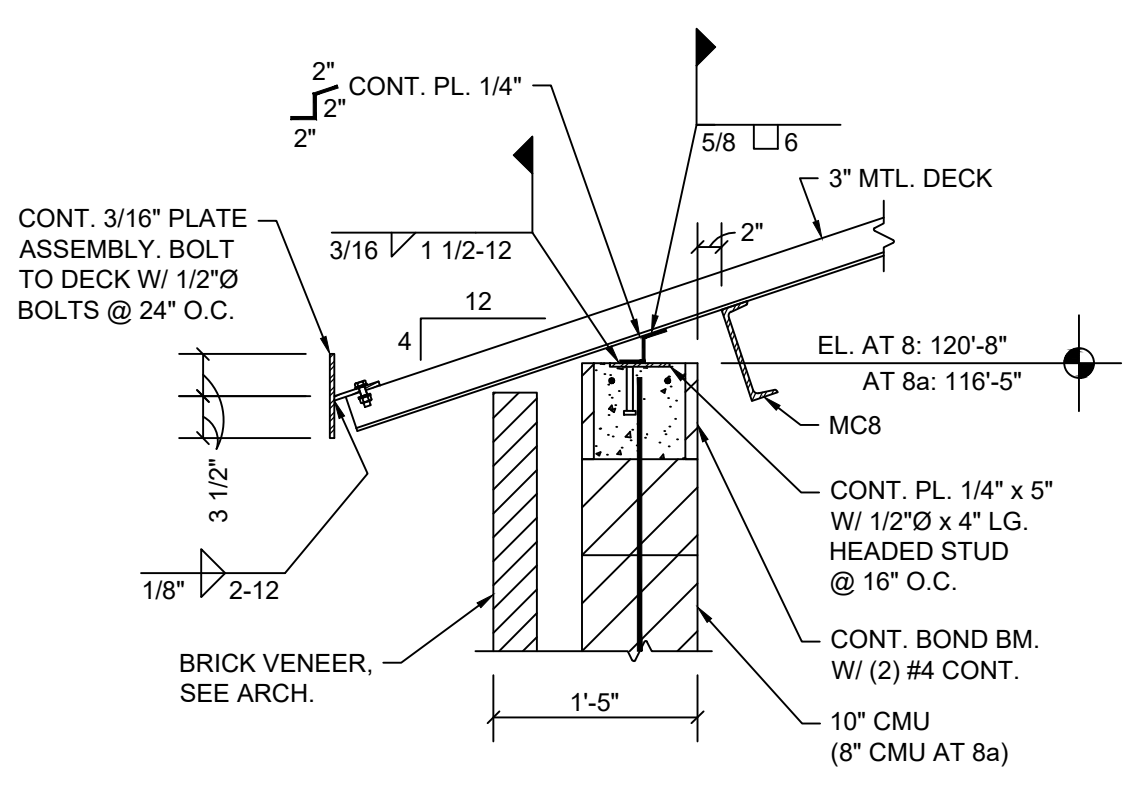
ELEVATION 5
3/8" = 1'-0"



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



FLOOR TIE-OFF 7
3/4" = 1'-0"



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

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FRAMING DETAILS

S2.7

FIRE SUPPRESSION PIPING

GENERAL NOTES:

PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).

PROVIDE PIPING SLEEVES AT WALLS IN NEW CONSTRUCTION.

PIPING SHALL BE PITCHED FOR DRAINAGE.

PROVIDE DIELECTRIC FITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

FLEXIBLE SPRINKLER HOSE CONNECTIONS MAY ONLY BE USED TO CONNECT PIPING LOCATED ABOVE A CEILING TO A SPRINKLER IN THE CEILING AND SHALL NOT BE USED IN ANY EXPOSED SITUATION.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRUGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTABLE.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SYSTEM	TYPE
FIRE SUPPRESSION PIPING	S2, S3
WET PIPE SPRINKLER 2.5" AND LARGER	S1, S2, S3
WET PIPE SPRINKLER 2" AND SMALLER	S2
FINAL CONNECTION TO SPRINKLER HEADS	F1, S2

TYPE	DESCRIPTION	TYPE	DESCRIPTION
S1	ROLL GROOVED BLACK STEEL SCHEDULE 10, ASTM A135 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536	S3	ROLL/CUT GROOVED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536
S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795, 150 LB. MALLEABLE OR C.I. SCREWED FITTINGS	F1	FLEXIBLE SPRINKLER HOSE FITTING 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE HOSE WITH CEILING BRACKET UL 2443 AND FM 1637 175 PSI RATING FOLLOW UL STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL FIRE SUPPRESSION SYSTEMS PER FIRE PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- BIDDERS ON FIRE SUPPRESSION WORK SHALL BE REGULARLY ENGAGED IN SPRINKLER SYSTEM WORK AND BE CERTIFIED BY THE STATE.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PERFORM A FLOW TEST TO SERVE AS THE BASIS FOR HYDRAULIC CALCULATIONS. DEVELOP HYDRAULIC CALCULATIONS AND INSTALLATION DRAWINGS NEEDED TO OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION. CALCULATIONS SHALL INCLUDE A 10% SAFETY FACTOR.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

GENERAL NOTES

- PROVIDE A COMPLETE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. BUILDING SHALL BE CONSIDERED FULLY SUPPRESSED AT COMPLETION OF PROJECT.
- ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.
- PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.
- ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT. CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.
- ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).
- THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.
- THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY- IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.
- VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT CONNECTION WITH THE FIRE DEPARTMENT.
- LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.
- CONCEALED, NONCOMBUSTIBLE ATTIC SPACES DO NOT REQUIRE SPRINKLERS.
- FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

DESIGN CRITERIA

- DESIGN AND INSTALLATION OF SERVICE MAIN AND WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2017 OHIO BUILDING CODE, N.F.P.A. 13 (2016 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
- WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
- WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
- ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDENT TYPE WITH FLAT PLATE AND CUSTOM COLOR TO MATCH THE ADJACENT CEILING COLOR OR FINISH. / WHITE FINISH.
- SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS/ CUSTOM COLOR UPRIGHTS. SIDEWALL SPRINKLER HEADS MAY ALSO BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
ES	EQUIPMENT SUPPLIER.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
1 F2.1	DETAIL SYMBOL DETAIL "1" SHOWN ON SHEET F2.1.
1 F2.1	SECTION SYMBOL SECTION "1" DESIGNATION, SHOWN ON SHEET F2.1.

FIRE SUPPRESSION LEGEND

F	FIRE SUPPRESSION SYSTEM
S	SPRINKLER SYSTEM
V	VALVE
V-R	VALVE ON RISER
CV	CHECK VALVE
SV	SUPERVISED VALVE
FS	FLOW SWITCH
CAP	CAP
C-B	CONNECTION, BOTTOM
C-T	CONNECTION, TOP
ELB-90	ELBOW, 90°, LONG RADIUS
ELB-45	ELBOW, 45°
ELB-TU	ELBOW, TURNED UP
ELB-TD	ELBOW TURNED DOWN
R	REDUCER
U	UNION
P	PRESSURE GAUGE
U	UPRIGHT SPRINKLER
C	CONCEALED SPRINKLER
S	SIDEWALL SPRINKLER

SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO HVAC DRAWINGS

FIRE SUPPRESSION INDEX OF DRAWINGS

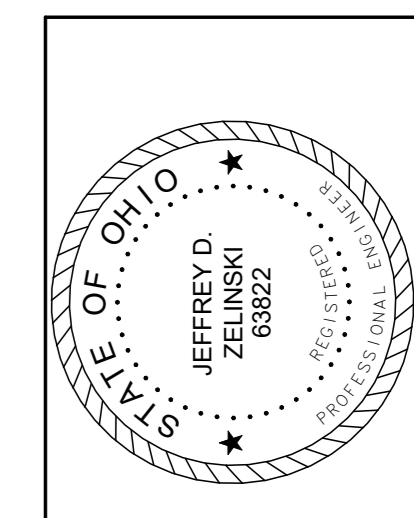
SHEET	DRAWING TITLE
F0.1	LEGENDS AND SCHEDULES
F0.2	DETAILS
F1.1	FIRST FLOOR FIRE SUPPRESSION
F1.2	MEZZANINE AND UPPER APPRATUS BAY FIRE SUPPRESSION

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NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY



SIDNEY, OHIO 45365

2324 CAMPBELL ROAD

JEFFERY D. ZELINSKI LICENSE #63822
EXPIRATION DATE 12/31/2025

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REVISIONS

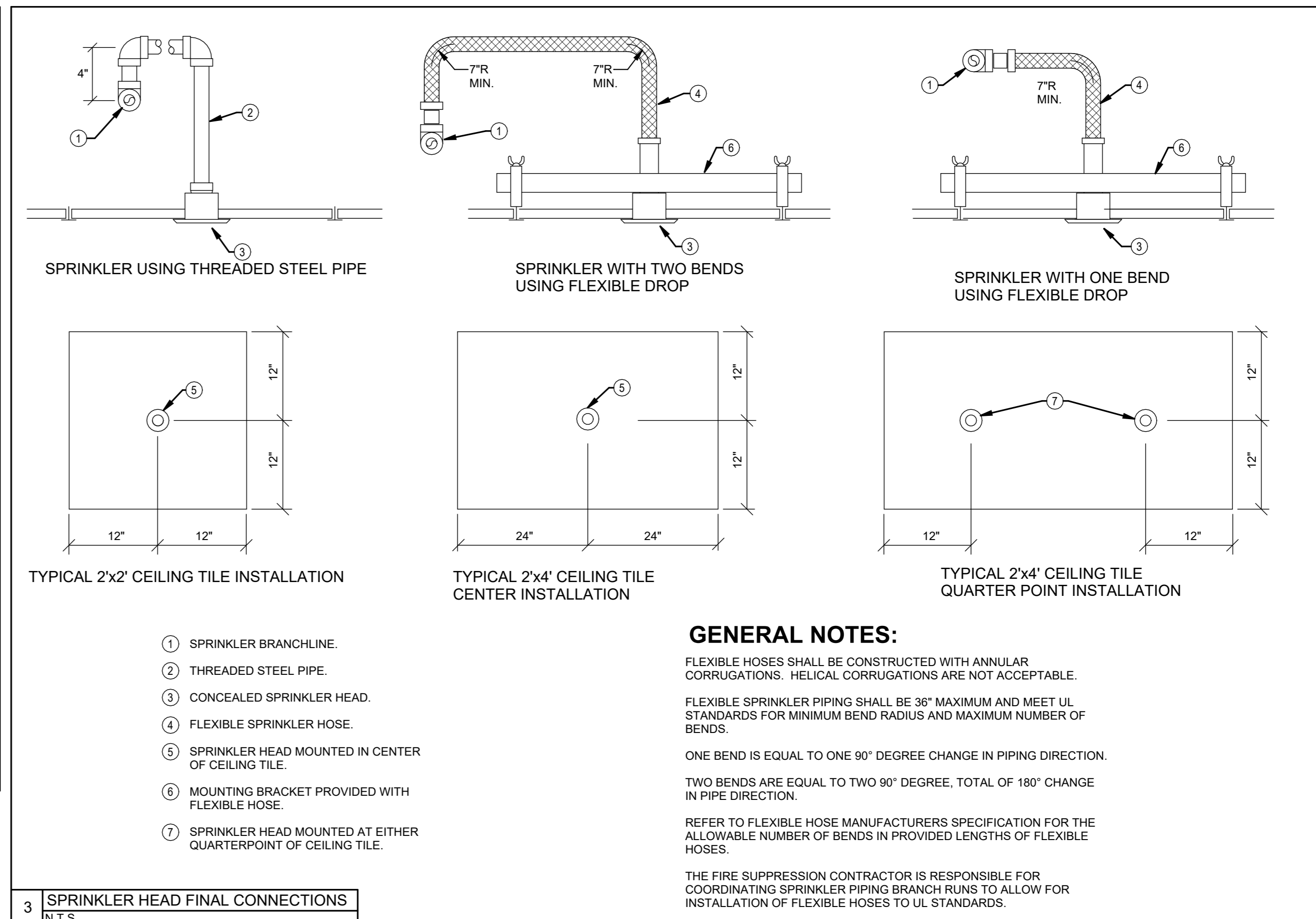
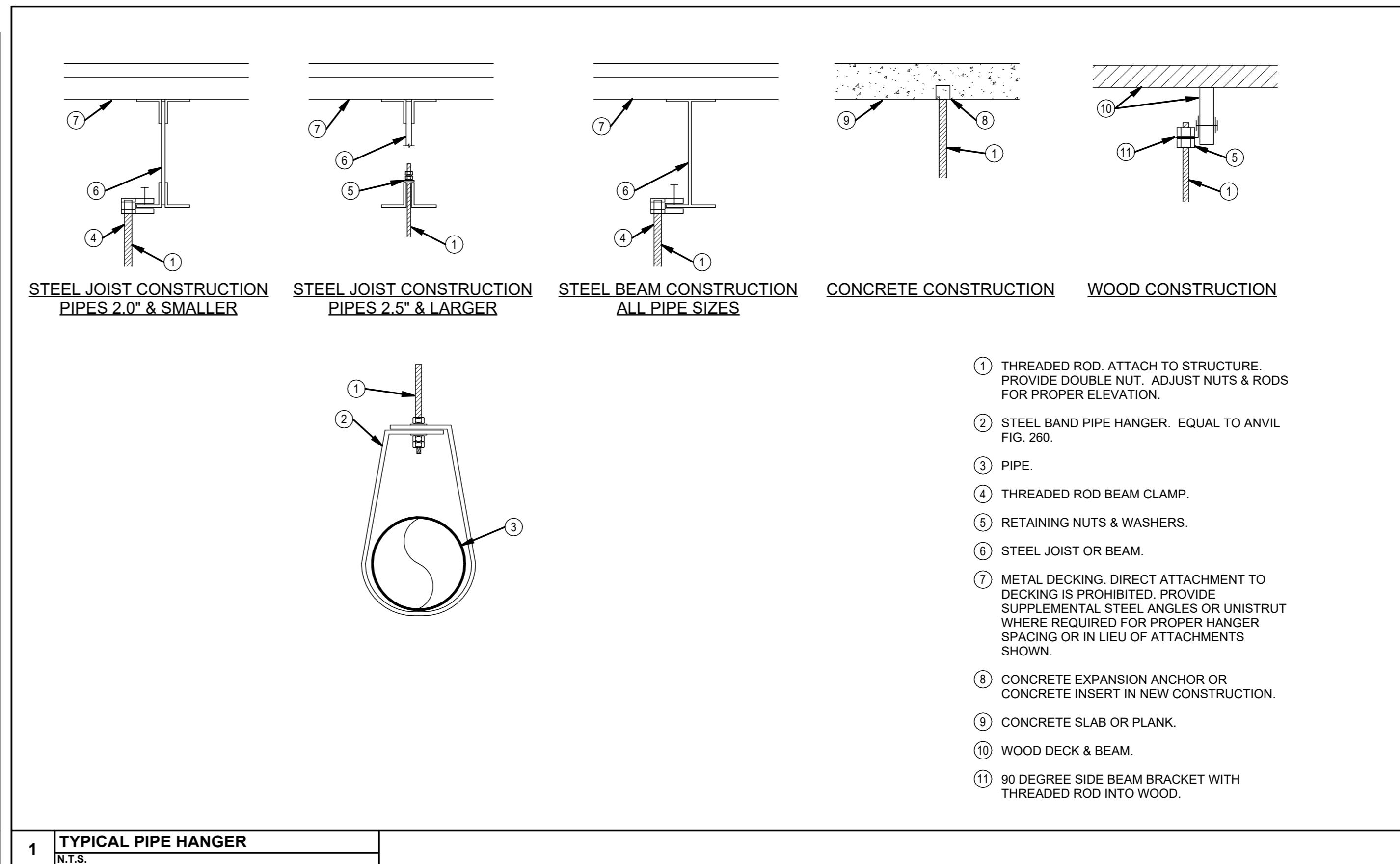
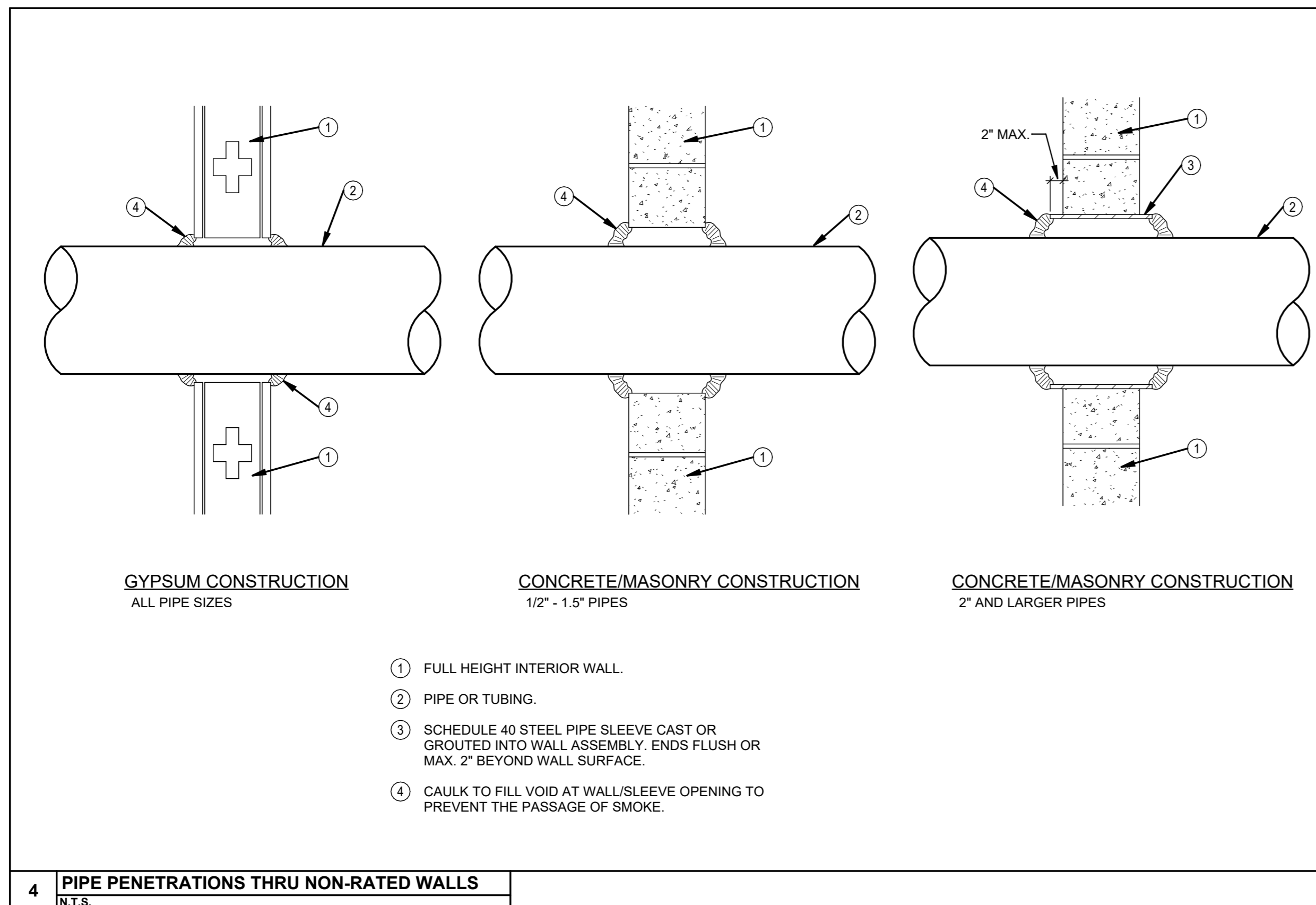
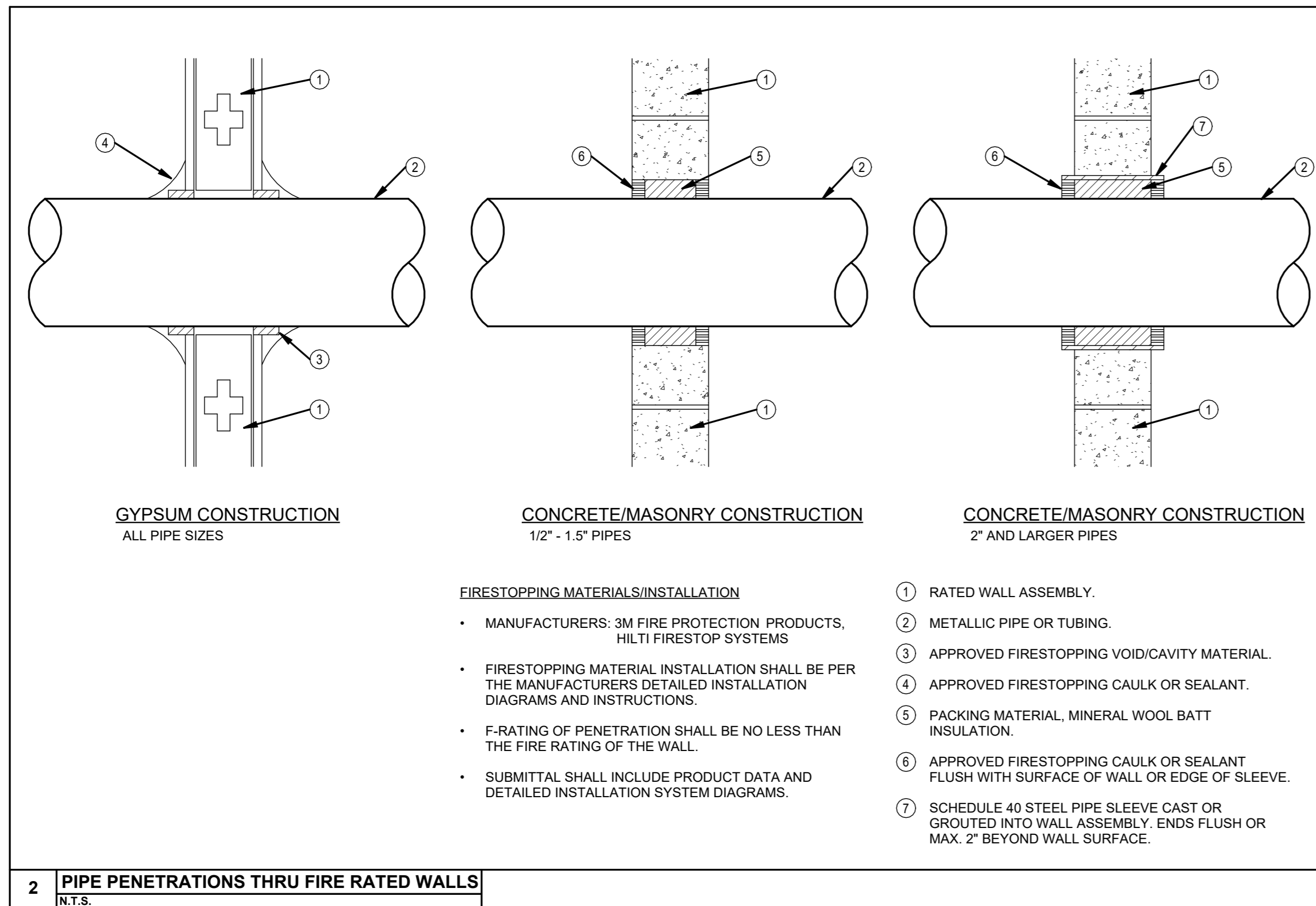
PLAN APPROVAL / BIDDING

COMM. NUMBER DATE
2207.02 11/13/24

DRAWN BY CHECKED BY
DEG JDZ

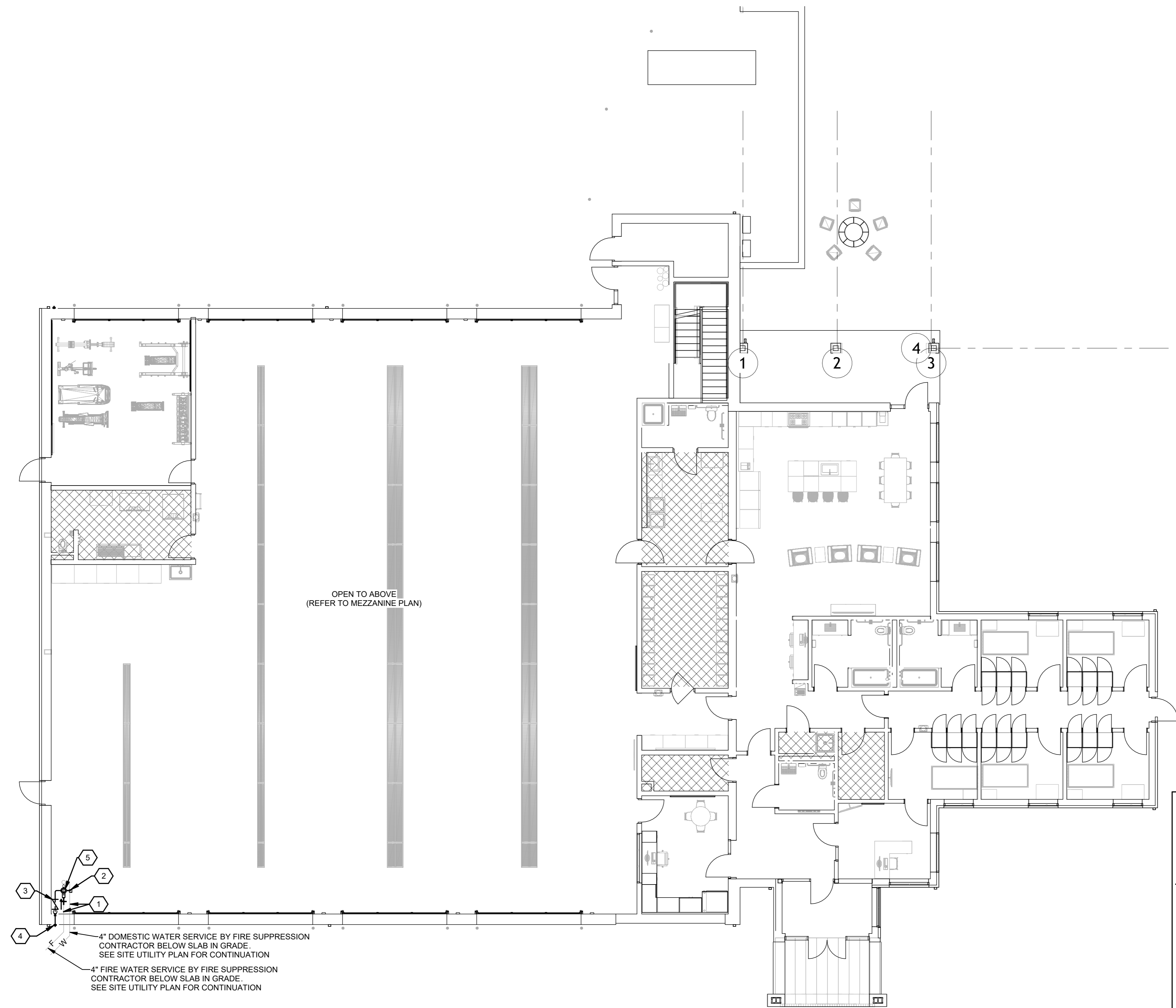
LEGENDS AND SCHEDULES

F0.1



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DETAILS	
F0.2	



4" DOMESTIC WATER SERVICE BY FIRE SUPPRESSION CONTRACTOR BELOW SLAB IN GRADE. SEE SITE UTILITY PLAN FOR CONTINUATION.

4" FIRE WATER SERVICE BY FIRE SUPPRESSION CONTRACTOR BELOW SLAB IN GRADE. SEE SITE UTILITY PLAN FOR CONTINUATION.

OPEN TO ABOVE
(REFER TO MEZZANINE PLAN)

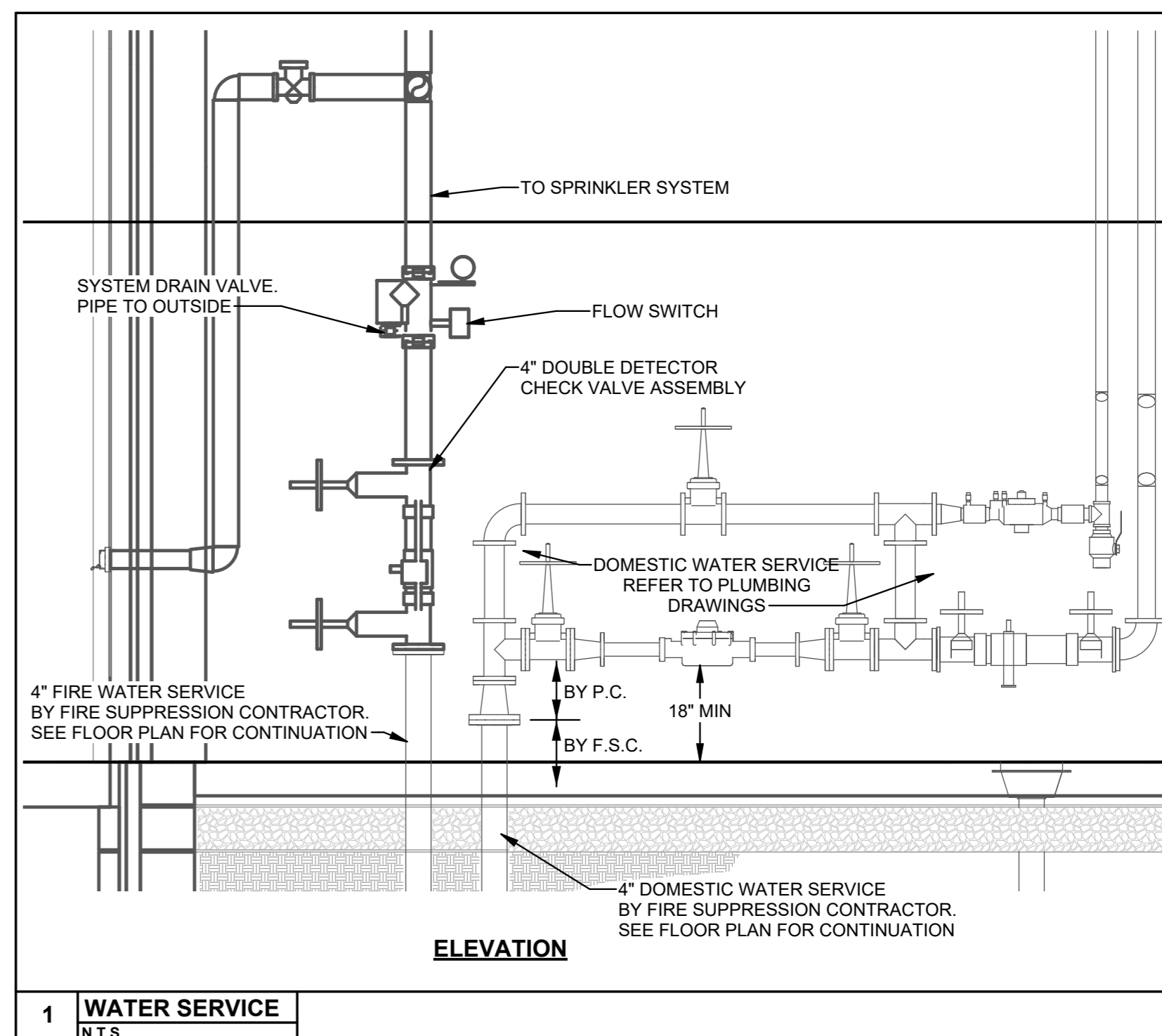
- ### CONSTRUCTION NOTES
- 4" DOMESTIC SERVICE WATER SERVICE AND 4" FIRE SERVICE BY FIRE SUPPRESSION CONTRACTOR (BELOW GRADE). SEE SITE UTILITY DRAWINGS FOR CONTINUATION.
 - FIRE WATER SERVICE SEE DETAIL THIS SHEET.
 - CHECK VALVE SERVING FIRE DEPARTMENT CONNECTION.
 - 5" STORTZ CONNECTION APPROX. 30" A.F.F. PROVIDE BALL DRIP ON BOTTOM OF PIPE DROP. PIPE DISCHARGE TO OUTSIDE.
 - SPRINKLER RISER TO TOP OF APPARATUS BAY. REFER TO F1.2 FOR CONTINUATION.

HAZARD CLASSIFICATIONS

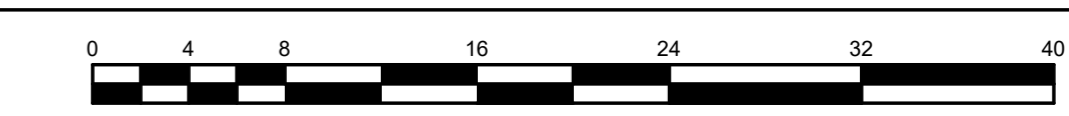
NO HATCH	LIGHT HAZARD DENSITY - 0.10GPM/SP MAX AREA PER HEAD - 225 SF HOSE ALLOWANCE - 100 GPM
[Cross-hatch pattern]	ORDINARY HAZARD GROUP 1 DENSITY - 0.15GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM
[Vertical line pattern]	ORDINARY HAZARD GROUP 2 DENSITY - 0.20GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM

STORM SHELTER NOTE

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3 1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2 1/16" IN DIAMETER SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PROTECTIVE DEVICES.



1 WATER SERVICE
N.T.S.



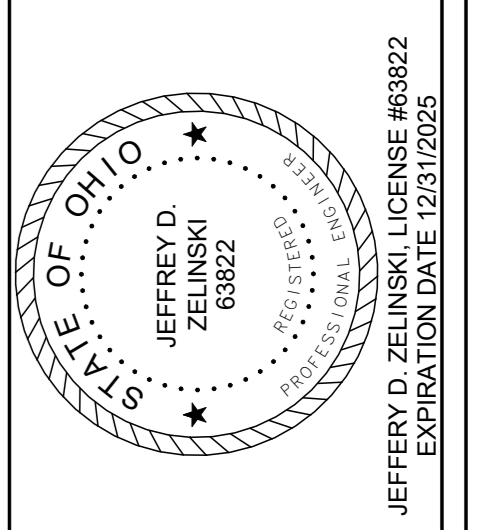
FIRST FLOOR FIRE SUPPRESSION

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

SCALE: 1/8"=1'-0"
NAUMAN & ZELINSKI LLC.
 204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
 Phone (937) 223-3851 - Fax (937) 223-3849
 PROJECT # 23015

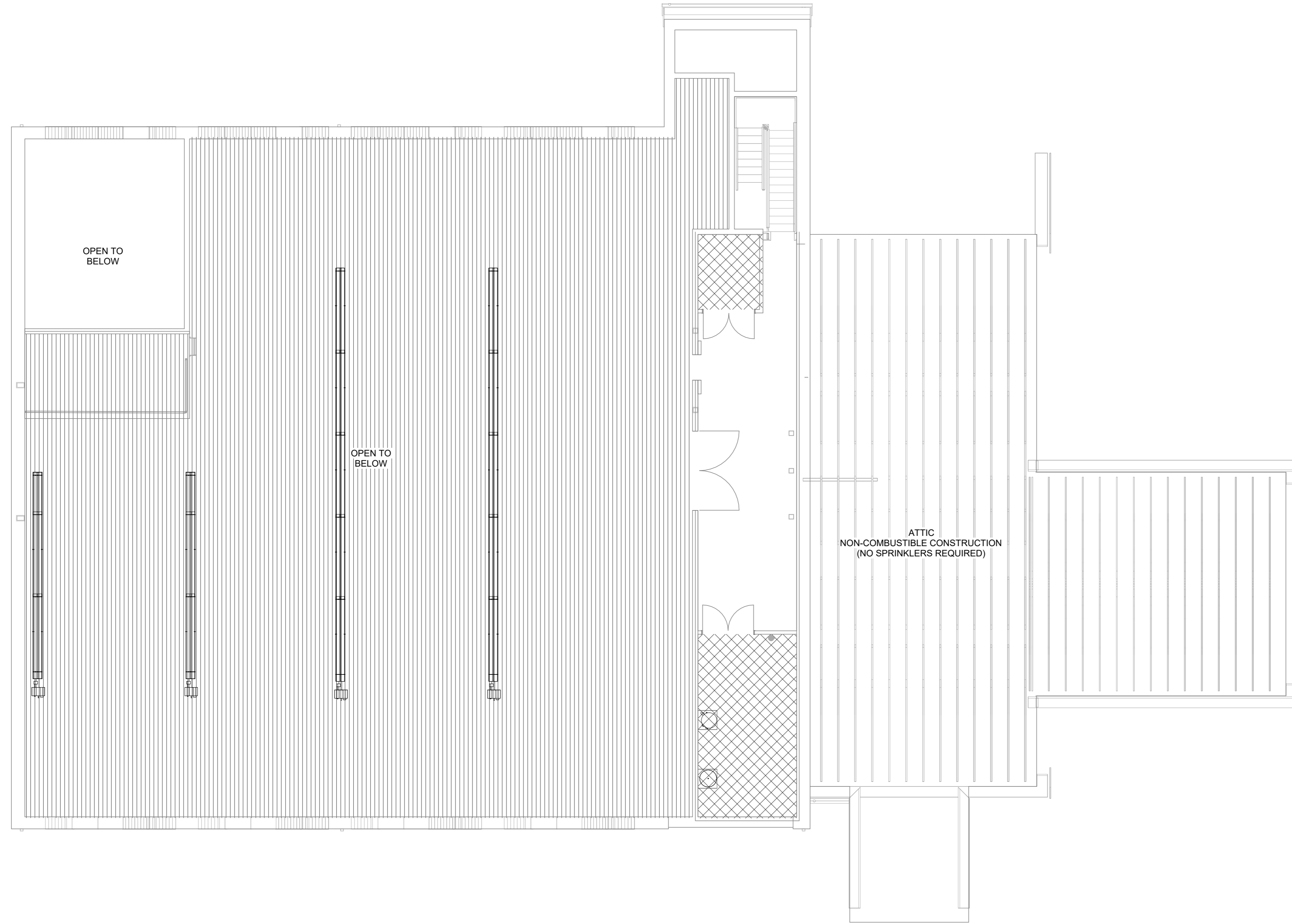
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NEW CONSTRUCTION OF
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FIRST FLOOR FIRE SUPPRESSION	
F1.1	



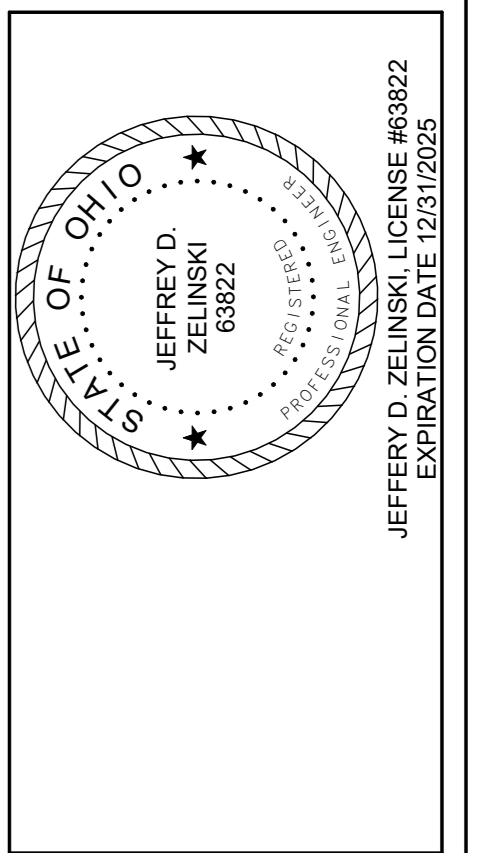
- ### CONSTRUCTION NOTES
1. DRY STANDPIPE.
 2. PROVIDE 2 1/2" FIRE HOSE VALVE ON DRY STANDPIPE APPROX. 30" ABOVE LANDING FLOOR.
 3. SPRINKLER PIPING UP AND DOWN.
 4. PROVIDE DRY SIDE WALL SPRINKLER.
 5. ROOM TO BE PROVIDED WITH A CHEMICAL CLEAN AGENT SUPPRESSION SYSTEM (FM 200 OR EQUAL) NO SPRINKLERS REQUIRED.
 6. TRAINING WINDOW. KEEP SPRINKLERS AND PIPING OUT OF AREA ABOVE.

HAZARD CLASSIFICATIONS

NO HATCH	LIGHT HAZARD DENSITY - 0.10GPM/SP MAX AREA PER HEAD - 225 SF HOSE ALLOWANCE - 100 GPM
[Cross-hatch pattern]	ORDINARY HAZARD GROUP 1 DENSITY - 0.15GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM
[Vertical line pattern]	ORDINARY HAZARD GROUP 2 DENSITY - 0.20GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM

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SECOND FLOOR FIRE SUPPRESSION

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



SCALE: 1/8"=1'-0"
NAUMAN & ZELINSKI LLC.
 204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
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 PROJECT # 23015

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DEG	JDZ
MEZZANINE AND UPPER APPRATUS BAY FIRE SUPPRESSION	
F1.2	

DRAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OUTLET SIZE	FEATURES					STRAINER/GRATE						NOTES	
					ANCHOR FLANGE	FLASHING CLAMP	UNDERDECK CLAMP	DBL/ DRAINAGE	SEDIMENT BUCKET	TOP/STRAINER SIZE	FLAT	SEDIMENT BUCKET	OPEN (NO GRATE)	HALF OPEN	ADJUSTABLE		FUNNEL
FD1	FLOOR DRAIN/ CAST IRON BODY/ NICKEL BRONZE ROUND TOP/ ADJUSTABLE	ZURN	# ZN415-B7	3"	•					7" DIA.	•						1.
FD2	FLOOR DRAIN/ CAST IRON BODY AND TOP/ MEDIUM DUTY/ LOOSE GRATE	ZURN	# Z550	3"	•					9" DIA	•						
FD3	FLOOR DRAIN/ PVC BODY/ APPROX 6" DEEP/ HALF TOP PVC FLAT/ FLAT GRATE/ FLAT STRAINER IN BOTTOM/ MEDIUM DUTY	SILOUX CHIEF	# 8614P26	4"	•					11" SQ.	•						
FD4	FLOOR DRAIN/ CAST IRON BODY AND TOP/ MEDIUM DUTY/ LOOSE GRATE/ OVAL FUNNEL	ZURN	# Z550 & # Z329	3"	•					9" DIA.	•						
FD5	FLOOR DRAIN/ CAST IRON BODY/ NICKEL BRONZE TOP/ ADJUSTABLE/ FUNNEL	ZURN	# Z415E	3"	•					7" DIA 4" DIA FUNNEL	•						
FD6	FLOOR DRAIN/ PVC BODY/ APPROX 6" DEEP/ HALF TOP PVC FLAT GRATE/ FLAT STRAINER IN BOTTOM/ MEDIUM DUTY	SILOUX CHIEF	# 8614P26	3"	•					11" SQ	•						
CB-1	21" X40" CATCHBASIN/ HDPE CONSTRUCTION/ HEAVY DUTY DUCTILE IRON FRAME AND SLOTTED GRATE/ PERFORATED ST.ST. SEDIMENT BUCKET/ SIDE OUTLET	ZURN	# Z874-21-IB-CBF-E4-YS W/ #DGF GRATE	4"						21" (I.D.) X 40"	•	•					
CB2	12" X40" CATCHBASIN/ HDPE CONSTRUCTION/ HEAVY DUTY DUCTILE IRON FRAME AND SLOTTED GRATE/ PERFORATED ST.ST. SEDIMENT BUCKET/ SIDE OUTLET	ZURN	# Z874-12-IB-CBF-E4-YS W/ #DGF GRATE	4"						12" (I.D.) X 40"	•	•					
ID1	21" TRENCH DRAIN/ HDPE CONSTRUCTION/ HEAVY DUTY DUCTILE IRON FRAME AND SLOTTED GRATE/ 80" SECTIONS/ ALL SECTIONS SLOPED	ZURN	# Z874-21 W/ #DGF GRATE	INTO CB-1						21" WIDE (I.D.) 66.67± LONG (10 - 80" LONG SECTIONS)	•						
ID2	12" TRENCH DRAIN/ HDPE CONSTRUCTION/ HEAVY DUTY DUCTILE IRON FRAME AND SLOTTED GRATE/ 80" SECTIONS/ ALL SECTIONS SLOPED	ZURN	# Z874-12 W/ #DGF GRATE	INTO CB-2						12" WIDE (I.D.) 66.67± LONG (10 - 80" LONG SECTIONS)	•						
ID3	12" TRENCH DRAIN/ HDPE CONSTRUCTION/ HEAVY DUTY DUCTILE IRON FRAME AND SLOTTED GRATE/ 80" SECTIONS/ ALL SECTIONS SLOPED	ZURN	# Z874-21 W/ #DGF GRATE	INTO CB-2						12" WIDE (I.D.) 26.67± LONG (4 - 80" LONG SECTIONS)	•						
EQ	EXTRA HEAVY DUTY CLEANOUT/ FLOOR SET/ NICKEL-BRONZE TOP/ CAST IRON BODY/ MIP THREADED CONNECTION/ ABS PLUG	ZURN	# ZN1400-K	SAME AS PIPE UP TO 4"	•						•						
DI1	DRAIN TROUGH W/ LINT TRAP/ 36"X18"X12"H/ POLYPROPYLENE/ DUAL FILTERS/ 4" SIDE OUTLET IN FRONT. RECESS FLUSH WITH FLOOR.	STRIEM	# TT-3 W/ # IBK-3 & GUSSETS	4" W/ FCO	•					---	•						

NOTES
1. PROVIDE ASSE 1072 TRAP MAINTENANCE DEVICE ON DRAIN.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES				MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.	VENT		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
W1	WATER CLOSET/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG M&P SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 2257.101	--	1"	4"	2"	17"	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	SEE SOIL, WASTE AND VENT	SEAT BEMIS # 1950SS	
W2	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ TANK TYPE/ HANDLE ON LEFT/ 1.28 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG M&P SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 211AA.104	--	1/2"	4"	2"	--	UNIT	MCGUIRE # LFBV2166	UNIT	INTEGRAL	--	SEAT BEMIS # 1950SS	
L1	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ SINGLE LEVER CAST BRASS FAUCET/ 0.5 GPM/ PROTECTIVE WRAP/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	1 1/4"	1 1/2"	--	AM. STANDARD # 6114.116	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC		POWERS # LFE480	
L2	LAVATORY/ VIT. CHINA/ WALL HUNG/ SINGLE LEVER CAST BRASS FAUCET/ 0.5 GPM/ PROTECTIVE WRAP/ ACCESSIBLE	AM. STANDARD # 0355.012	1/2"	1/2"	1 1/4"	1 1/2"	34" TO RIM	AM. STANDARD # 6114.116	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	MI-FAB # MC-41	POWERS # LFE480	
L3	LAVATORY/ VIT. CHINA/ WALL HUNG/ METERING CAST BRASS FAUCET W SINGLE TEMP/ 0.5 GPM/ PROTECTIVE WRAP/ ACCESSIBLE	AM. STANDARD # 0355.012	1/2"	1/2"	1 1/2"	1 1/2"	34" TO RIM	CHICAGO # 3600-E2805AB	MCGUIRE # LFBV2165	UNIT	MCGUIRE # PW2150WC	MI-FAB # MC-41	POWERS # LFE480	
S1	SINK/ DROP-IN/ SINGLE BOWL/ 28" x16" x 12" DEEP BOWL/ SINGLE LEVER FAUCET W PULL DOWN SPRAY W COIL/ DISPOSAL	ELKAY # DLR312212	1/2"	1/2"	1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803350	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	--	INSINKERATOR # EVOLUTION .75 HP	
S2	SINK/ ST. ST./ INTEGRAL W C/TOP/ SINGLE BOWL/ SINGLE LEVER FAUCET W PULL DOWN SPRAY W COIL/ BASKET STRAINER/ EMERG. DRENCH HOSE WITH MIXING VALVE	BY OTHERS	(2) 1/2"	(2) 1/2"	(2) 1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803350	MCGUIRE # LFBV2165	MCGUIRE # 151A (2 REQ'D)	MCGUIRE # 8912 & # 111	--	GUARDIAN # G5022-HG & G360OLF	
S3	SINK/ ST. ST./ DROP-IN/ SINGLE BOWL/ 21" X 15 3/4" X 12" DEEP BOWLS/ SINGLE LEVER FAUCET WITH SIDE SPRAY	ELKAY # DLR252212	1/2"	1/2"	1 1/2"	1 1/2"	-	AM. STANDARD # 7074.040	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	--	--	
SH1	SHOWER/ SOLID SURFACE ENCLOSURE/ CENTER DRAIN W NO THRESHOLD/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	2"	1 1/2"	VALVE 46" HEAD 83"	POWERS # P902-M4-N-B-W	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
SH2	SHOWER/ SOLID SURFACE ENCLOSURE/ CENTER DRAIN W THRESHOLD/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD	BY OTHERS	1/2"	1/2"	2"	1 1/2"	VALVE 46" HEAD 83"	POWERS # P902-M4	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
E1	DRINKING FOUNTAIN/ WALL MOUNTED/ SINGLE LEVEL WITH BOTTLE FILLER/ FILTERED/ REFRIGERATED/ ACCESSIBLE	ELKAY # LZS68WSLK	-	1/2"	1 1/4"	1 1/2"	32 7/8" TO BUBBLER	UNIT	BALL VALVE	UNIT	CAST BRASS	MI-FAB # MC-32	--	
E1	EMERGENCY SHOWER AND EYEWASH/ FREESTANDING/ ST. ST. SHOWER HEAD AND BOWL/ THERMOSTATIC MIXING...	GUARDIAN # G1994	1"	1"	1 1/4"	TO FD	--	UNIT		FLOOR DRAIN	--		GUARDIAN # G6040	2.
M1	MOP SINK/ FLOOR SET/ 24" SQ. 12" DEEP/ MOLDED STONE/ ST. ST. CAPS/ ST. ST. WALL PANELS/ WALL MOUNTED ROUGH CHROME FAUCET WITH INTEGRAL CHECK STOPS	FIAT # TSB-100	1/2"	1/2"	3"	1 1/2"	36" FAUCET	ZURN # Z843M1-RC-CS	UNIT	UNIT	SAME AS SANITARY PIPING		FIAT # MSG2424	
M2	MOP SINK/ FLOOR SET/ 24" X 36" 12" DEEP/ TERRAZZO/ ST. ST. CAPS/ ST. ST. WALL PANEL/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS AND HOSE AND SPRAY	FIAT # TSB-700	1/2"	1/2"	3"	1 1/2"	36" FAUCET	CHICAGO # 512-GC90LABCP					FIAT # MSG 36 (1 36" PANEL)	
WB1	WASHER UTILITY CONNECTION BOX/ 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR/ WASTE CONNECTION	OATEY # 38574	3/4"	3/4"	2"	1 1/2"	30"	UNIT	BALL VALVES ABOVE CEILING	UNIT	SAME AS SANITARY PIPING	--	--	
WB2	ICE MAKER CONNECTION BOX/ 1/4 TURN BALL VALVE/ 6" ST. HOSE	OATEY # 38623	--	1/2"	--	--	36"	UNIT	BALL VALVE ABOVE CEILING	--	--	--	--	
WB3	COFFEE MAKER CONNECTION BOX/ 1/4 TURN BALL VALVE/ 6" ST. HOSE	OATEY # 38623	--	1/2"	--	--	42"	UNIT	BALL VALVE ABOVE CEILING	--	--	--	--	
HB1	HOSE BIBB/ ENCASED/ NON-FREEZE/ ANTI-SIPHON/ AUTOMATIC DRAINING/ 1/2 TURN CERAMIC DISC/ WALL...	ZURN # Z1320XL-EZ-WC	3/4"	-	-	-	APPROX. 24"							1.

EQUALS
AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN
AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO
SLOAN FLUSH VALVES - ZURN, DELANEY
ELKAY SINKS - JUST, ADVANCED TABCO
MCGUIRE - WATTS, BRASS CRAFT
MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"
OATEY SUPPLY BOXES - IPS, GUY GRAY, SILOUX CHIEF

NOTES:
1. COORDINATE EXACT MOUNT HEIGHT WITH MASONARY COURSING.
2. MOUNT MIXING VALVE ON WALL NEXT TO EMERGENCY SHOWER AND RUN 1 1/4" TEMPERED WATER FROM MIXING VALVE TO FIXTURE INLET.

GENERAL NOTES - PLUMBING

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 VERSION OF THE OHIO BUILDING AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.
- OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETS PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS.
- IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT. SEE SPECIFICATIONS.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

PLUMBING LEGEND

- SANITARY DRAIN ABOVE FLOOR OR GRADE
- VENT
- COLD WATER
- HOT WATER
- HOT WATER RETURN
- G NATURAL GAS
- A COMPRESSED AIR
- C.O. CLEAN OUT
- SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
- CHECK VALVE
- BALANCING VALVE
- VALVE ON RISER
- UNION, SCREWED
- REGULATOR
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- CONNECTION, BOTTOM
- CONNECTION, TOP
- DIRECTION OF FLOW
- CAP
- V.R. VENT RISER
- V.T.R. VENT THRU ROOF
- S.S. SOIL STACK
- V.S. VENT STACK

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- ES EQUIPMENT SUPPLIER.
- NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- ROOM NUMBER.
- UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.

SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO HVAC DRAWINGS

PLUMBING INDEX OF DRAWINGS

SHEET	DRAWING TITLE
P0.1	LEGEND & SCHEDULES
P0.2	MATERIAL SCHEDULES
P0.3	MATERIAL SCHEDULES AND GENERAL DETAILS
P1.0	UNDERFLOOR PIPING PLAN
P1.1	FIRST FLOOR PLAN
P1.2	UPPER APPARATUS BAY AND MEZZANINE PLAN
P3.1	DETAILS
P4.1	SOIL, WASTE, AND VENT

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COMM. NUMBER	DATE
2207.02	11/13/24
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LEGEND & SCHEDULES

P0.1

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CITY OF SIDNEY

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822

JEFFREY D. ZELINSKI LICENSE #63822
EXPIRATION DATE 12/31/2025

VALVE SCHEDULE

GENERAL NOTES FOR VALVES:

QUALITY ASSURANCE
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.
VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.
GROOVED END VALVES SHALL CONFORM TO ANSIAAWWA C-606.

PRODUCTS
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CONBRACO, CRANE.
BALANCING VALVES - BELL & GOSSETT, ARMSTRONGS, WATTS.
CHECK VALVES - NIBCO, STOCKHAM, WATTS.

EXECUTION
VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER SERVICE 2" AND LARGER				D18		
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E11	
DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER		B14	C12, C14 C16			
COMPRESSED AIR (150 PSI AND LESS) 2" AND SMALLER		B15				
INTERIOR NATURAL GAS 4" AND SMALLER		B17				
INTERIOR NATURAL GAS 4" AND LARGER						P11
EXTERIOR NATURAL GAS 3" AND SMALLER		B18				P11

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., TWO-PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND BRONZE STEM, TFE SEAT AND SEAL, HANDLE, NSF/ASME 61	C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING, NSF 61	D18	KENNEDY KS-FW 8068A, 200 PSI, NSF 61 EPOXY COATED CAST IRON BODY, RESILIENT WEDGE, O.S. & Y., FLANGED ENDS
B14	APOLLO 70LF-240, 150 WSP TWO-PIECE, LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLOON SEAT AND SEAL, HANDLE, NSF/ASME 61	C12	NIBCO T-938-33, 250 PSI WORKING WATER PRESSURE, DUCTILE IRON BODY, STAINLESS STEEL TRIM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING, NSF/ANSI 61-8	E11	BELL & GOSSETT C8-1LF 400 PSI, BRONZE BODY WITH BRASS BALL, SCREW CONNECTION, READOUT & DRAIN PORTS, TFE SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B15	NIBCO T-580-CS-R-66 1500 W.O.G., TWO-PIECE CARBON STEEL BODY, SCREWED ENDS, STAINLESS STEEL BALL AND STEM, TFE SEAT AND SEAL, HANDLE.	C13	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK BRONZE BODY, SCREWED ENDS, TFE DISC AND SEAT RING, NSF/ASME 61	P11	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH
B17	NIBCO T-PP-800A, 800 PSI NON-SHOCK COLD, 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	C14	NIBCO F-910-LF, 125 W.O.G., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE, IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC, NSF/ASME 61		
B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.33	C16	WATTS SERIES LF/WCV, 125 W.S.P. BRONZE BODY, SCREWED ENDS, BRONZE SWING DISC, NSF/ASME 61		

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

PRODUCTS
PVC PIPING SHALL NOT BE USED IN SPACES USED AS PLENUMS.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL.

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

TESTING
PIPING SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

PIPING SYSTEM	TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE	P1
SANITARY & VENT PIPING ABOVE THE FLOOR	C1, C2
STORM DRAINAGE BELOW THE FLOOR IN SLAB	P1
STORM DRAINAGE ABOVE FLOOR	C1, C2
INDIRECT DRAINS/CONDENSATE DRAIN LINES 1" & SMALLER	C1, C5, C8

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
C2	HUB & SPIGOT CAST IRON ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564	C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	PVC SCHEDULE 40 PVC ASTM D2685 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS	C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

NOTE:
IN ABOVE CEILING SPACES USED AS RETURN AIR PLENUMS, SANITARY AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C2. COORDINATE WITH H.C. FOR RETURN AIR PLENUMS LOCATIONS

SANITARY AND VENT PIPING ABOVE THE FLOOR SLAB AND WITHIN WALLS MAY BE PVC TYPE P1, ONLY IF ALL (ALL TRADES) WALL PENETRATIONS ARE SEALED TO PREVENT THE PASSAGE OF SMOKE INTO RETURN AIR PLENUMS. TRANSITION TO CAST IRON SHALL OCCUR WITHIN THE WALL.

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE, VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIVETER.

UNIONS
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 COATED OF EXTERIOR GRADE PAINT FOR PROTECTION.

TESTING
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.

COMPRESSED AIR PIPING - 200 PSI FOR 6 HOURS.

NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC WATER SERVICE PIPING 3" & LARGER	D1
DOMESTIC HOT, COLD AND RECIRCULATING WATER	C1, C4, C5
INCIDENTAL DOMESTIC COLD WATER BELOW GRADE	C8, PX1
NATURAL GAS AT PRESSURES LESS THAN 2 PSI	S1, S2, S6
NATURAL GAS AT PRESSURES 2 PSI & HIGHER	S1, S2
MISCELLANEOUS UNDERGROUND NATURAL GAS (OUTSIDE OF BUILDING)	PE1
COMPRESSED AIR 2.5" & SMALLER	S3

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	PE1	POLYETHYLENE PE 2306, 2406 TYPE II GRADE 3, PE 3406, 3408 TYPE III, ASTM D2513 HEAT FUSION JOINTS
C4	GROOVED COPPER TYPE "L" HARD COPPER ASTM B88 COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 807N WITH FLUOROELASTOMER GASKET	PX1	PEX TUBING CROSS-LINKED POLYETHYLENE TUBING, SDR 9, ASTM F877 METAL INSERT FITTINGS WITH COPPER OR STEEL CRIMP RING
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS
C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
D1	DUCTILE IRON ANSI A21.51 & AWWA CLASS 53 OR 51 250 LB. FITTINGS FLANGED FITTINGS	S3	THREADED GALVANIZED STEEL SCHEDULE 40, ASTM A53 TYPE E OR F CLASS 300 FITTINGS W/PTFE TAPE ASME B16.3
		S6	PRESS-FIT BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3, ANSI LC-4/CSA 6.32, & ASTM F3226

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS PER PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING AND OHIO PLUMBING CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- EXCAVATE FOR ALL IN GRADE UNDERFLOOR PIPING. PUMP WATER FROM EXCAVATIONS AND TRENCHES DURING CONSTRUCTION. PIPE SHALL BE LAID ON A 6" MINIMUM SAND BED. BACKFILLING OF TRENCHES SHALL BE WITH GRADED PEA GRAVEL OR GRADED COURSE SAND. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 8 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 2 HOURS.

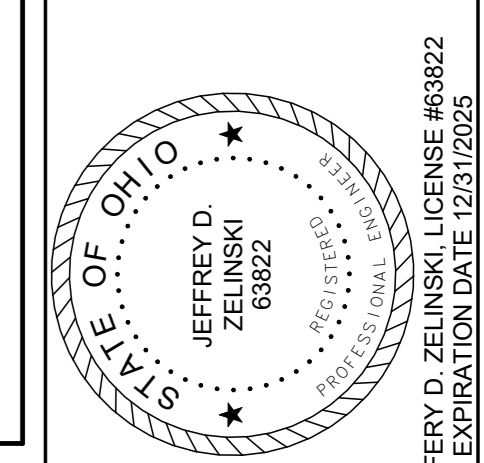
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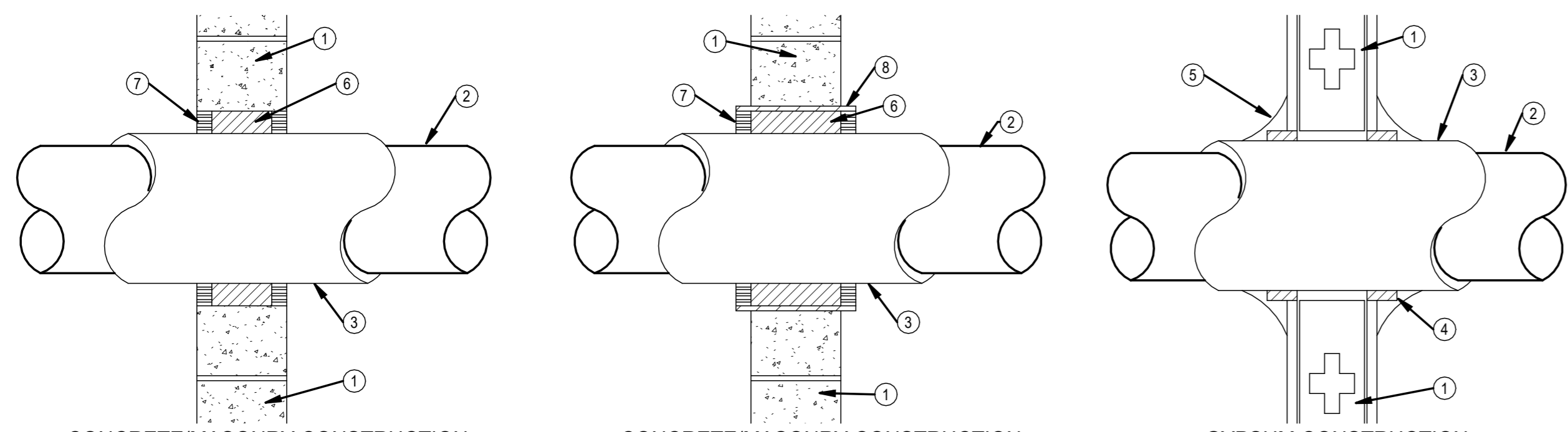
NEW CONSTRUCTION OF
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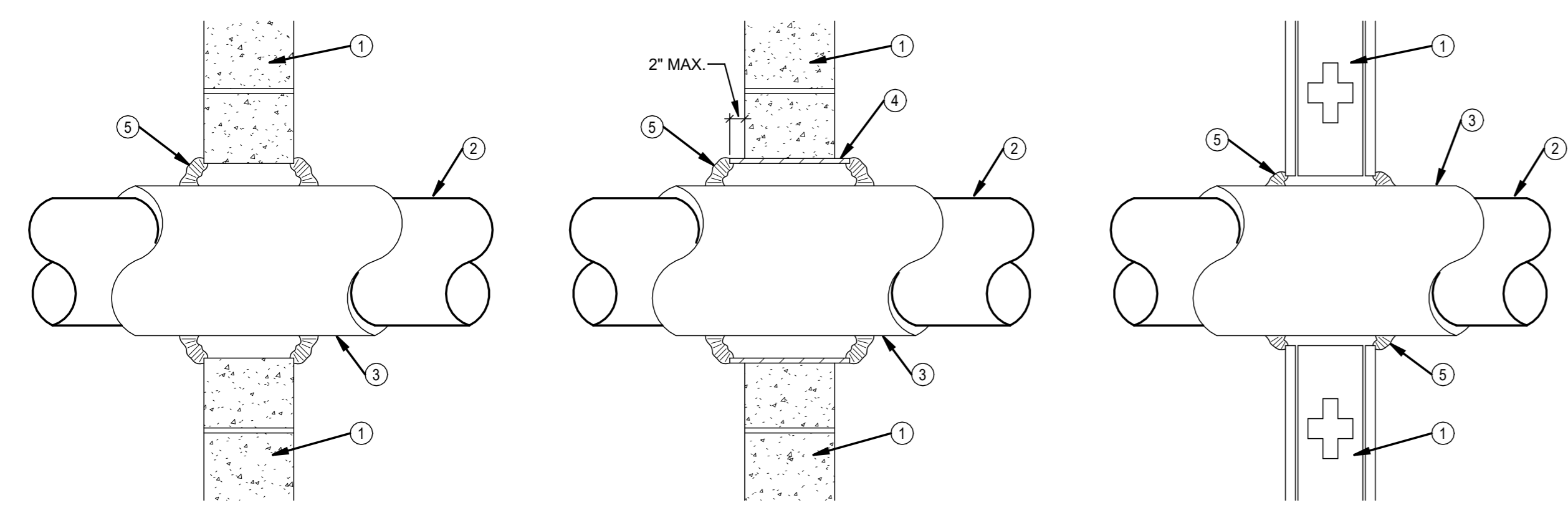
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REVISIONS	
PLAN APPROVAL / BIDDING	
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MATERIAL SCHEDULES	
P0.2	



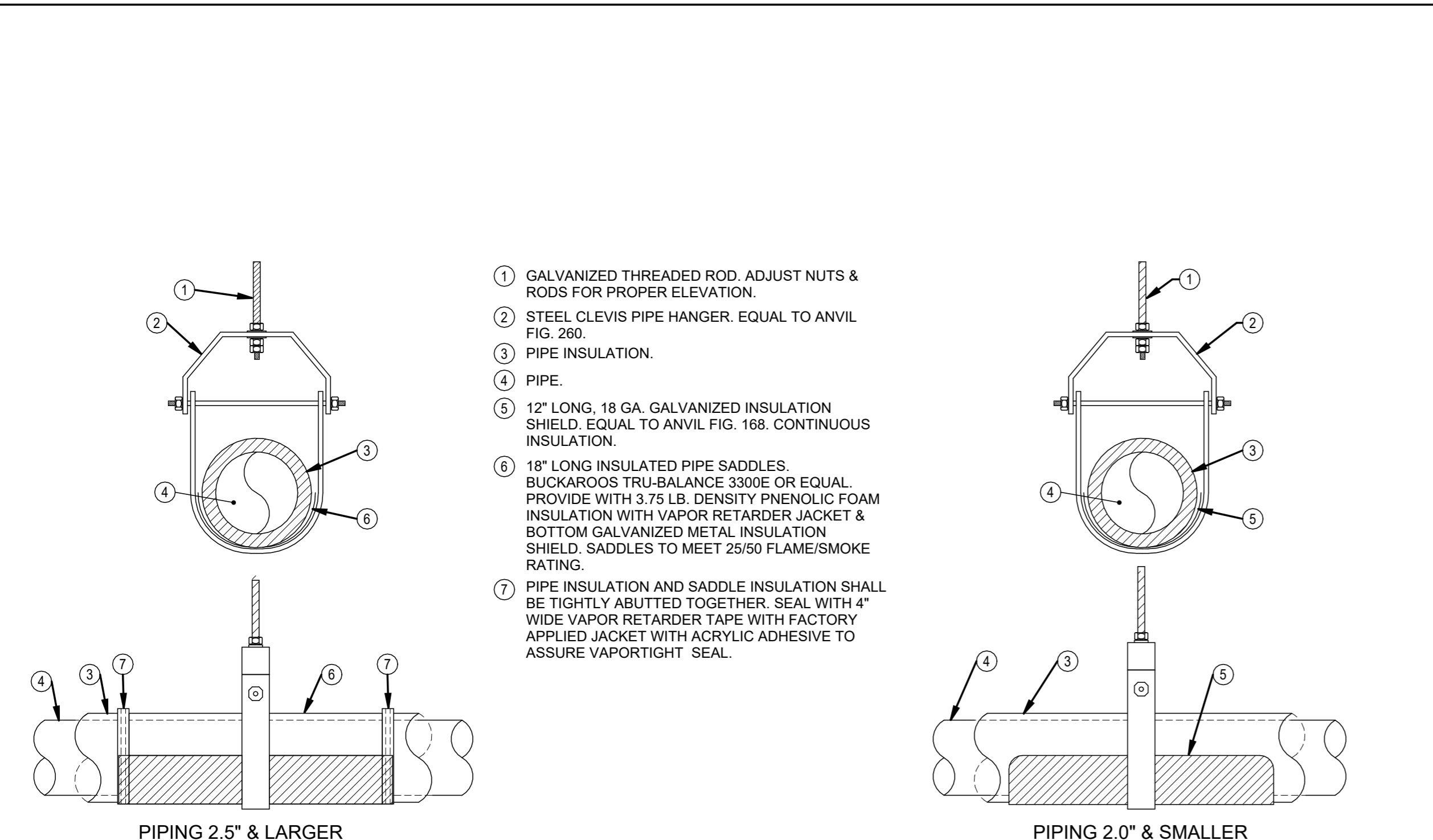
- CONCRETE/MASONRY CONSTRUCTION**
1/2" - 1.5" PIPES
- CONCRETE/MASONRY CONSTRUCTION**
2" AND LARGER PIPES
- GYPSUM CONSTRUCTION**
ALL PIPE SIZES
- FIRESTOPPING MATERIALS INSTALLATION**
- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
 - FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
 - F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
 - SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.
- RATED WALL ASSEMBLY.
 - METALLIC PIPE OR TUBING.
 - PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
 - APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
 - APPROVED FIRESTOPPING CAULK OR SEALANT.
 - PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
 - APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
 - SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

1 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



- CONCRETE/MASONRY CONSTRUCTION**
1/2" - 1.5" PIPES
- CONCRETE/MASONRY CONSTRUCTION**
2" AND LARGER PIPES
- GYPSUM CONSTRUCTION**
ALL PIPE SIZES
- FULL HEIGHT INTERIOR WALL.
 - PIPE OR TUBING.
 - PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
 - SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
 - CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



- GALVANIZED THREADED ROD, ADJUST NUTS & RODS FOR PROPER ELEVATION.
- STEEL CLEVIS PIPE HANGER, EQUAL TO ANVIL FIG. 260.
- PIPE INSULATION.
- PIPE.
- 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD, EQUAL TO ANVIL FIG. 168, CONTINUOUS INSULATION.
- 18" LONG INSULATED PIPE SADDLES, BUCKAROOS TRU-BALANCE 3300E OR EQUAL, PROVIDE WITH 3.75 LB. DENSITY PNEOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD, SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
- PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER, SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.

3 PIPE HANGERS
N.T.S.

PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:

DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.

DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:

- PRE-SET CONCRETE INSERTS.
- AFTER-SET STEEL EXPANSION TYPE CONCRETE INSERTS.
- SIDE BEAM BRACKET FOR WOOD CONSTRUCTION EQUAL TO ANVIL FIG. 206.
- CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILTI.

ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.

ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.

THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 30N.

TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.

SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.

HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.

PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLIP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.

IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
PLASTIC PIPING	VERTICAL	PER MANUFACTURER'S RECOMMENDATION
	HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION

PIPE INSULATION SCHEDULE - PLUMBING

GENERAL NOTES:

QUALITY ASSURANCE
FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.

THICKNESSES SHALL CONFORM TO ASHRAE 90.1-2010 MINIMUMS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION
INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING. PROVIDE HARDWOOD INSERT SUPPORT FOR PIPES 2.5" AND LARGER.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

INSULATION MAY BE OMITTED ON HOT WATER VALVES AND DEVICES 2" AND SMALLER PIPE SIZE.

PRIMARY AND SECONDARY ROOF DRAIN SUMPS SHALL BE INSULATED WITH 1" THICK INSULATION.

THE FIRST 10 FEET OF SECONDARY STORM PIPING AFTER THE DRAIN SHALL BE INSULATED.

ABOVE GRADE SANITARY DRAINAGE RECEIVING CONDENSATE SHALL BE INSULATED AS INDICATED BELOW FOR CONDENSATE DRAINAGE. WHERE THE DRAIN SUMP IS EXPOSED ON THE FLOOR BELOW, IT TOO SHALL BE INSULATED WITH 1" INSULATION.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1, P1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1, P1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT AFTER RETURN 1.25" AND SMALLER	1"	F1, P1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT AFTER RETURN 1.5" AND SMALLER	1.5"	F1, P1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1, P1	INTERIOR
CONDENSATE DRAINAGE	1"	F1, P1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-ASJ	KNAUF 1000" PIPE, JOHNS MANVILLE MICRO-LOK HP	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PCF. * PREFORMED TUBULAR. * WHITE FSRK JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 2550 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
P1	AEROFLEX - AEROCEL EPDM	RUBATEX	* PREFORMED, FLEXIBLE CLOSED CELL EPDM, TUBULAR INSULATION, OR SHEET INSULATION. * K=0.25 @ 75 DEG. F. * CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.

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NEW CONSTRUCTION OF
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CITY OF SIDNEY

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STATE OF OHIO
JEFFERY D. ZELINSKI
63822

PROFESSIONAL SEAL
EXPIRATION DATE: 12/31/2025

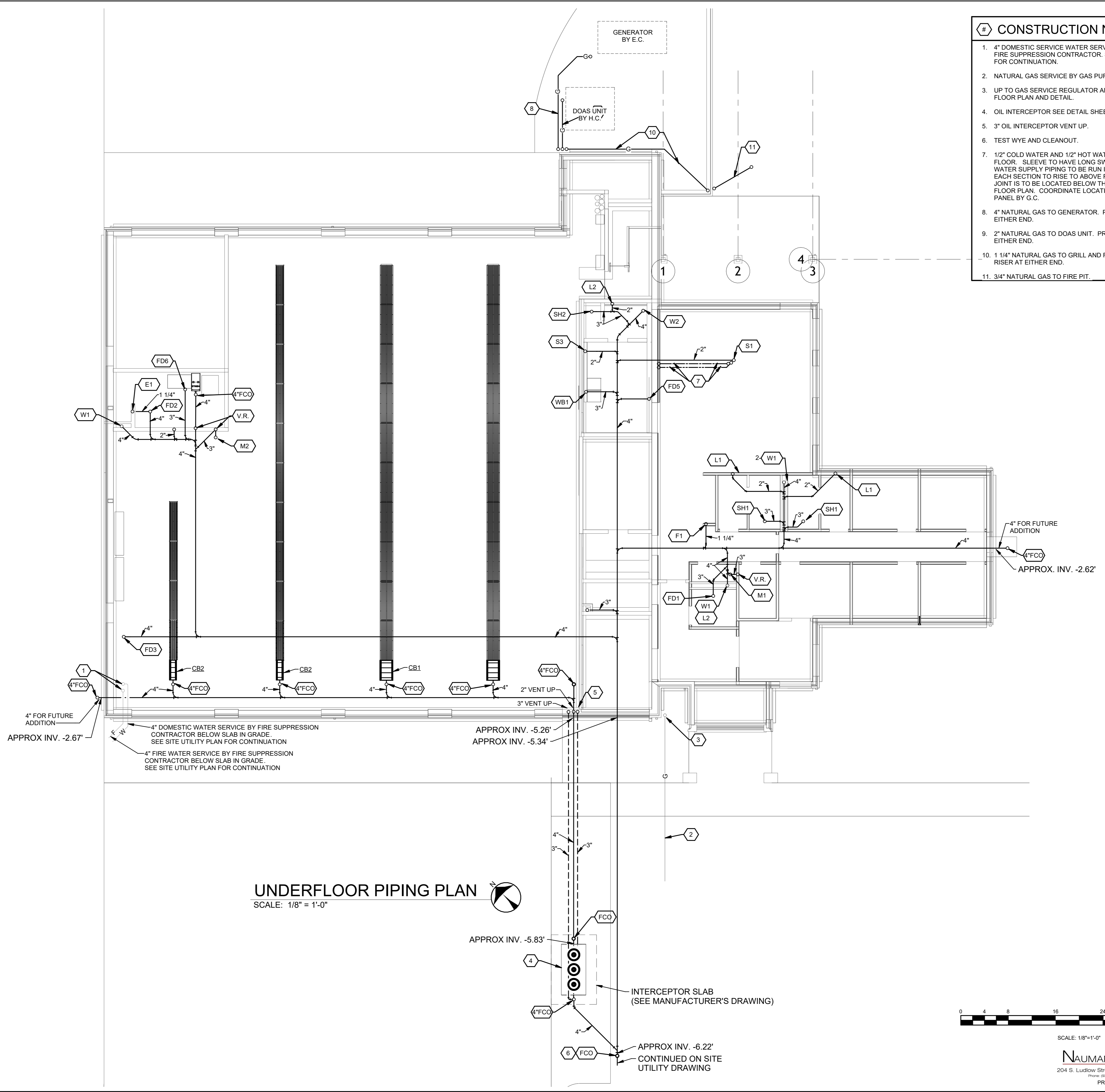
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REVISIONS
PLAN APPROVAL / BIDDING

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2207.02	11/13/24

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MATERIAL SCHEDULES AND GENERAL DETAILS



- ### CONSTRUCTION NOTES
- 4" DOMESTIC SERVICE WATER SERVICE AND 4" FIRE SERVICE BY FIRE SUPPRESSION CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION.
 - NATURAL GAS SERVICE BY GAS PURVEYOR.
 - UP TO GAS SERVICE REGULATOR AND METER SETTING. SEE FIRST FLOOR PLAN AND DETAIL.
 - OIL INTERCEPTOR SEE DETAIL SHEET P3.2
 - 3" OIL INTERCEPTOR VENT UP.
 - TEST WYE AND CLEANOUT.
 - 1/2" COLD WATER AND 1/2" HOT WATER IN 4" SLEEVE BELOW FLOOR. SLEEVE TO HAVE LONG SWEEP BENDS AT EITHER END. WATER SUPPLY PIPING TO BE RUN IN ONE PIECE OF PEX PIPING EACH SECTION TO RISE TO ABOVE FLOOR BEFORE ANY JOINT. NO JOINT IS TO BE LOCATED BELOW THE FLOOR SLAB. SEE FIRST FLOOR PLAN. COORDINATE LOCATION IN WALL WITH ACCESS PANEL BY G.C.
 - 4" NATURAL GAS TO GENERATOR. PROVIDE ANODELESS RISER AT EITHER END.
 - 2" NATURAL GAS TO DOAS UNIT. PROVIDE ANODELESS RISER AT EITHER END.
 - 1 1/4" NATURAL GAS TO GRILL AND FIRE PIT. PROVIDE ANODELESS RISER AT EITHER END.
 - 3/4" NATURAL GAS TO FIRE PIT.

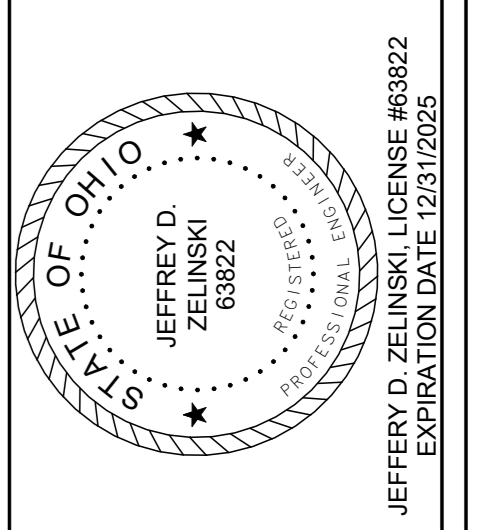
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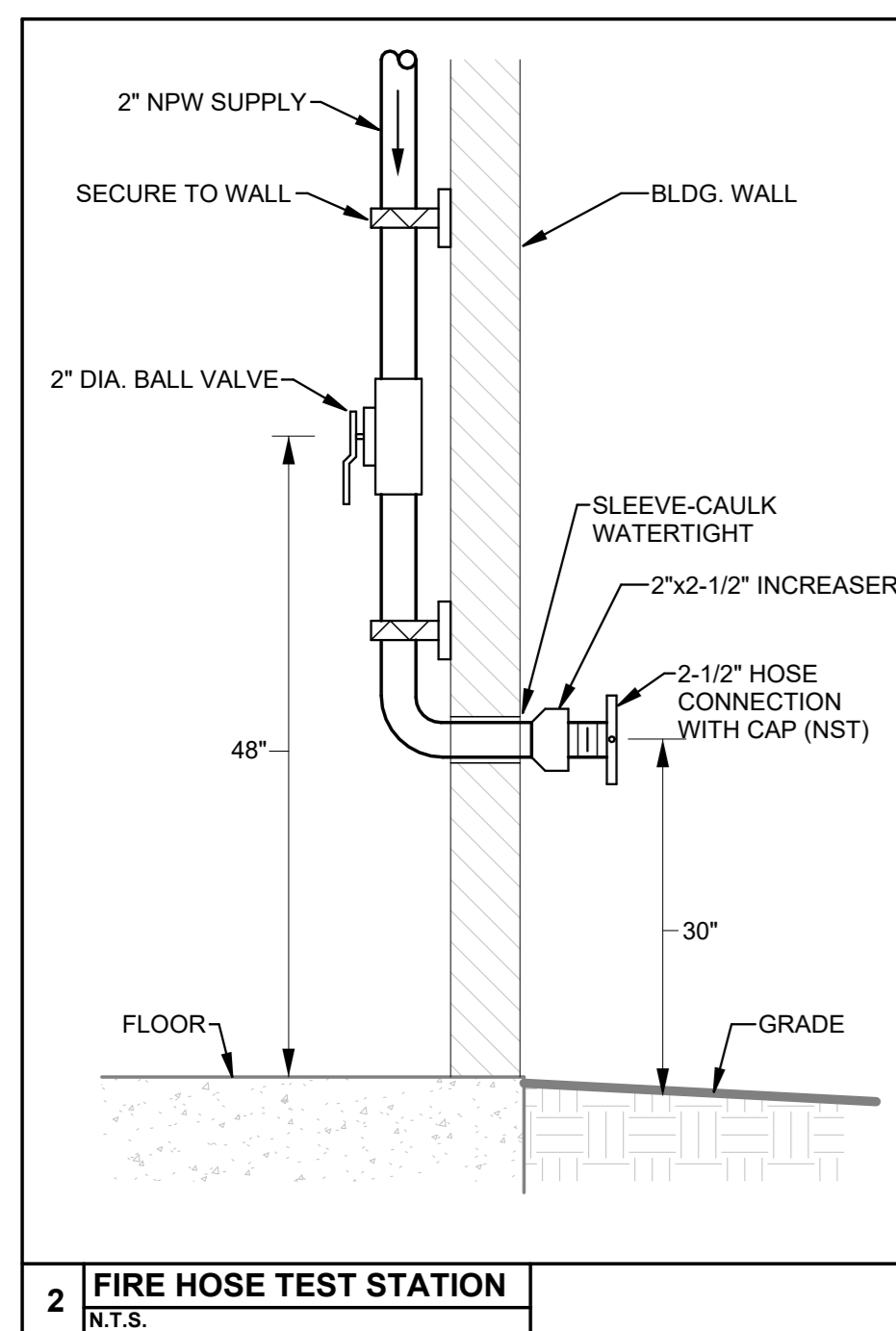


SCALE: 1/8"=1'-0"

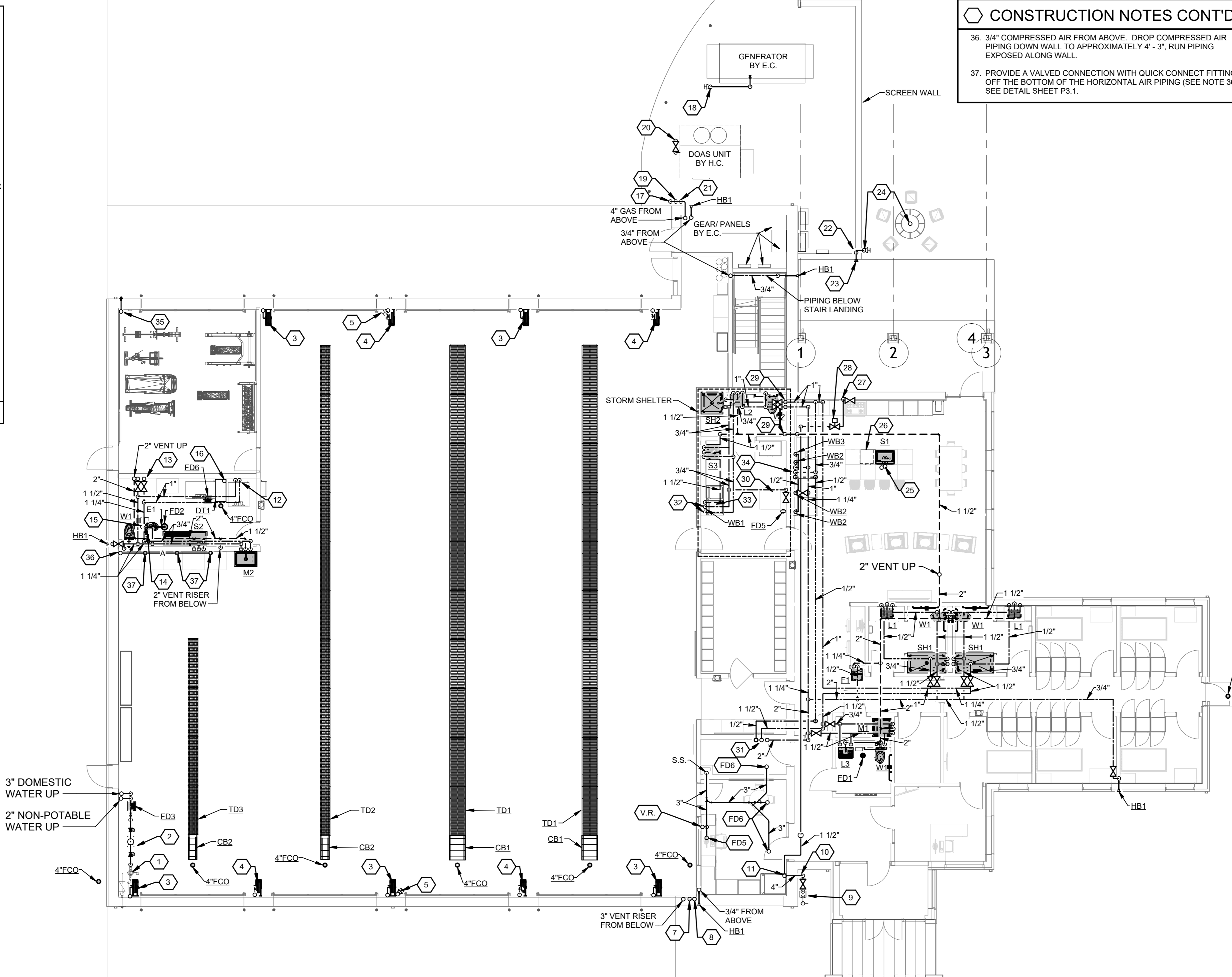
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 PROJECT # 23015

UNDERFLOOR PIPING PLAN
 SCALE: 1/8" = 1'-0"

UNDERFLOOR PIPING PLAN



2 FIRE HOSE TEST STATION
N.T.S.

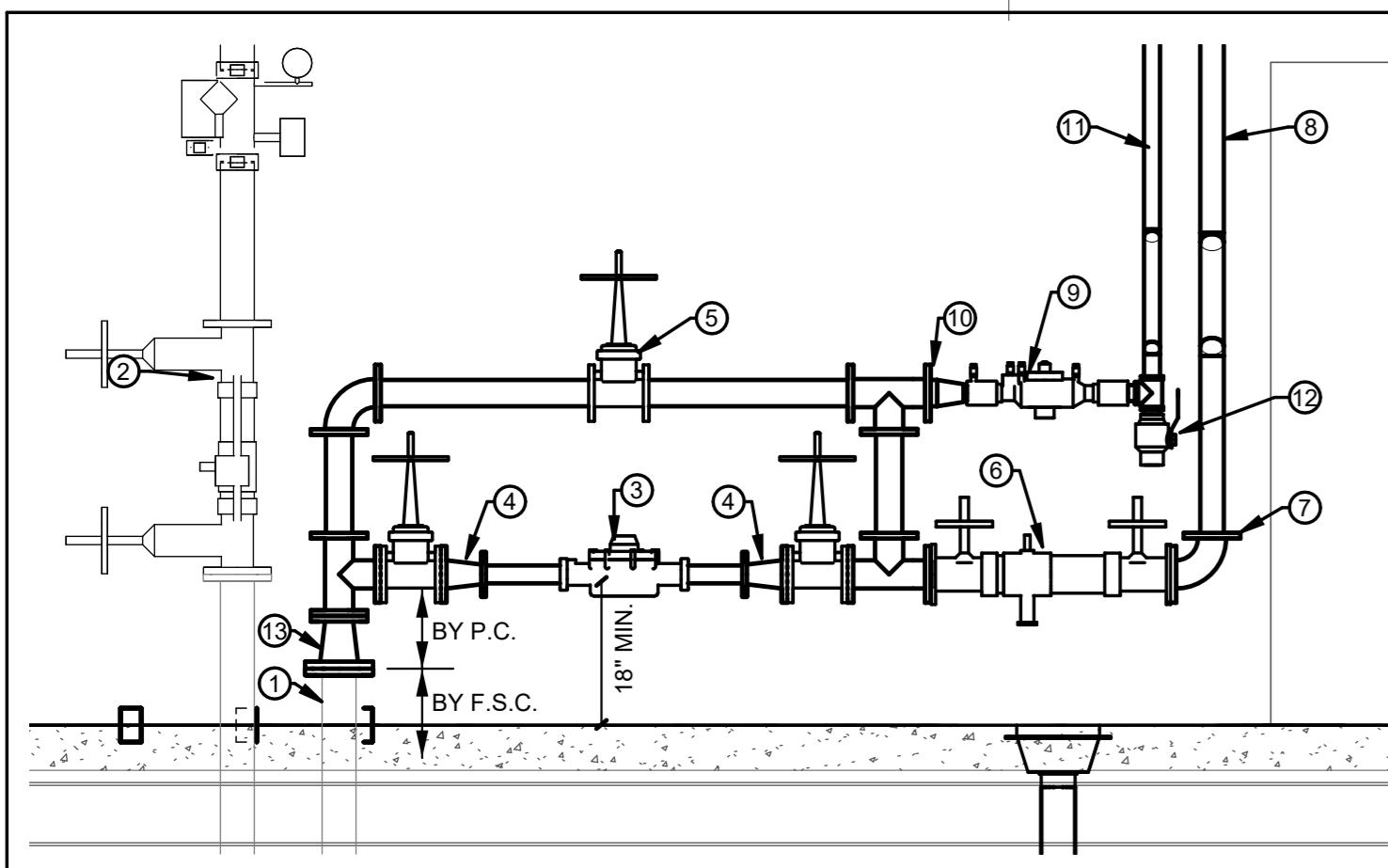


CONSTRUCTION NOTES CONT'D.

- 36. 3/4" COMPRESSED AIR FROM ABOVE. DROP COMPRESSED AIR PIPING DOWN WALL TO APPROXIMATELY 4' - 3", RUN PIPING EXPOSED ALONG WALL.
- 37. PROVIDE A VALVED CONNECTION WITH QUICK CONNECT FITTING OFF THE BOTTOM OF THE HORIZONTAL AIR PIPING (SEE NOTE 36) SEE DETAIL SHEET P3.1.

CONSTRUCTION NOTES

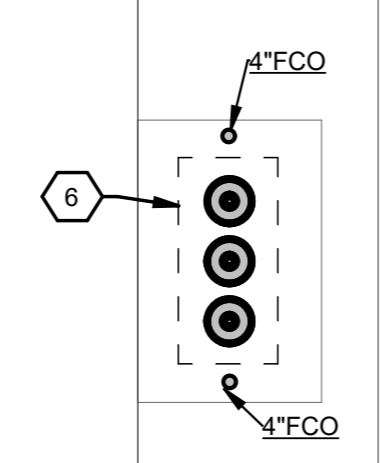
- 1. 6" COMBINED WATER SERVICE AND FIRE WATER SERVICE BY SITE UTILITY CONTRACTOR.
- 2. 3" DOMESTIC WATER SERVICE. REFER TO ENLARGED WATER SERVICE ELEVATION ON THIS SHEET.
- 3. AIR HOSE REEL WITH MOUNTING BRACKET AND 50 LF OF 3/8" 300 PSI HOSE. REELCRAFT # 5650 OLP. MOUNT TO COLUMN APPROXIMATELY 9'-0" TO CENTER OF HOSE REEL.
- 4. WATER HOSE REEL WITH MOUNTING BRACKET AND 75 LF OF 3/4" 250 PSI HOSE. REELCRAFT # GC83075 OLP. MOUNT TO WALL APPROXIMATELY 6'-0" TO CENTER OF HOSE REEL. FURNISH SHUT-OFF VALVE AND A VACUUM BREAKER MOUNTED JUST ABOVE TOP OF HOSE REEL.
- 5. 2" NON-POTABLE WATER FROM ABOVE. PROVIDE 2" VALVE WITH 1.5" NST THREADED OUTLET APPROXIMATELY 42" A.F.F.
- 6. OIL INTERCEPTOR BELOW GRADE. REFER TO UNDERFLOOR PIPING PLAN SHEET P1.0 AND DETAIL SHEET P3.1.
- 7. 2" TRENCH DRAIN VENT FROM BELOW.
- 8. 3" OIL INTERCEPTOR VENT FROM BELOW CONNECT TRENCH DRAIN VENT TO 3" NEAR FLOOR AND EXTEND UP THRU ROOF SEPARATELY FROM OTHER SANITARY VENTS.
- 9. NATURAL GAS SERVICE REGULATOR AND METER SETTING. REFER TO DETAIL SHEET P3.1.
- 10. 4" GAS (AT 7" W.C.) UP EXTERIOR WALL TO ABOVE THE CEILING OF THE REPORT ROOM.
- 11. 4" GAS UP. REFER TO UPPER APPARATUS BAY AND MEZZANINE FOR CONTINUATION.
- 12. COMMERCIAL EXTRACTOR/WASHER. VALVE AND CONNECT 1" COLD AND 1" HOT WATER. PIPE 3" DISCHARGE TO TOP OF DRAIN TROUGH. PROVIDE A PDI "B" WATER HAMMER ARRESTOR ON BOTH COLD AND HOT WATER SUPPLIES.
- 13. 2" COLD WATER AND 1 1/4" HOT WATER FROM ABOVE. REFER TO UPPER APPARATUS BAY AND MEZZANINE FOR CONTINUATION.
- 14. MIXING VALVE FOR "E1" EMERGENCY SHOWER AND EYEWASH. REFER TO FIXTURE SCHEDULE. MOUNT ON WALL APPROX. 8'-6" A.F.F. PIPE OUTLET TO INLET OF EMERGENCY SHOWER.
- 15. PIPE DISCHARGE FROM EMERGENCY EYEWASH INTO WALL TO BELOW FLOOR AND OFFSET TO FLOOR DRAIN. REFER TO SOIL, WASTE, AND VENT DIAGRAM.
- 16. PROVIDE 3" DRAIN STACK ON TOP OF LINT TRAP/ DRAIN TROUGH.
- 17. DROP 4" GAS INTO GROUND. REFER TO UNDERFLOOR PIPING PLAN FOR CONTINUATION. PROVIDE ANODELESS RISER. ALL EXPOSED PIPING TO BE PAINTED.
- 18. 4" NATURAL GAS (@ 7" W.C.) FROM BELOW. PROVIDE SHUT OFF VALVE AND EXTEND TO GENERATOR. PROVIDE FULL SIZE DIRT LEG AND UNION. REFER TO GAS CONNECTION DETAIL SHEET P3.1. ALL EXPOSED PIPING TO BE PAINTED.
- 19. DROP 2" GAS INTO GROUND. REFER TO UNDERFLOOR PIPING PLAN FOR CONTINUATION. PROVIDE ANODELESS RISER. ALL EXPOSED PIPING TO BE PAINTED.
- 20. 2" NATURAL GAS (@ 7" W.C.) FROM BELOW. PROVIDE SHUT OFF VALVE AND EXTEND TO DOAS UNIT. PROVIDE FULL SIZE DIRT LEG AND UNION. REFER TO GAS CONNECTION DETAIL SHEET P3.1. ALL EXPOSED PIPING TO BE PAINTED.
- 21. DROP 1 1/4" GAS INTO GROUND. REFER TO UNDERFLOOR PIPING PLAN FOR CONTINUATION. PROVIDE ANODELESS RISER. ALL EXPOSED PIPING TO BE PAINTED.
- 22. 1 1/4" NATURAL GAS (@ 7" W.C.) FROM BELOW ON SERVICE YARD SIDE OF WALL. TEE APPROXIMATELY 1' 6" A.F.F. AND PROVIDE A TEE. EXTEND 3/4" THRU WALL TO GAS GRILL BOX AND EXTEND 3/4" THRU WALL TO SERVE FUTURE GAS FIRE PIT. ALL EXPOSED PIPING TO BE PAINTED.
- 23. GAS SUPPLY BOX FOR GRILL. BURNABY # G0101-SS-B1 OR APPROVED EQUAL. MOUNT APPROX 1'-6" A.F.F. PROVIDE 10" "BBQ HOSE" BURNABY # 324394.
- 24. 3/4" GAS TO DROP TO BELOW GRADE AND EXTEND TO FUTURE FIRE PIT. PROVIDE MANUAL VALVE AT SERVICE YARD WALL AND CAP AT 6" ABOVE GRADE FOR FUTURE AT FIRE PIT. PROVIDE ANODELESS RISER. ALL EXPOSED PIPING TO BE PAINTED.
- 25. 1/2" COLD WATER AND 1/2" HOT WATER IN PIPE 4" SLEEVE UP FROM BELOW FLOOR SLAB TO SERVE KITCHEN SINK. REFER TO UNDERFLOOR PIPING PLAN FOR CONTINUATION.
- 26. UNDERCOUNTER DISHWASHER. CONNECT TO HOT WATER AND WASTE FROM ADJACENT SINK. PROVIDE AIR GAP FITTING (DEARBORN # DB-CR-4P OR EQUAL) ON WASTE.
- 27. DROP 1 1/4" GAS DOWN IN WALL TO APPROX 1' A.F.F. OFFSET TO BEHIND RANGE PROVIDE 1 1/4" BALL VALVE AND INSTALL SOLENOID VALVE FURNISHED WITH HOOD. ALONG WALL NEAR FLOOR AND CONNECT TO RANGE PER MANUFACTURER'S RECOMMENDATIONS. REFER TO GAS CONNECTION DETAIL.
- 28. FIRE CALL GAS SOLENOID SHUT OFF SERVING KITCHEN RANGE. REFER TO DETAIL SHEET P3.1 AND TO APPARATUS BAY CONTROL PANEL BY E.C.
- 29. OFFSET PIPING FOR STORM SHELTER SHIELDING (SEE STORM SHELTER NOTE). COORDINATE CLOSELY WITH OTHER TRADES.
- 30. ICE MAKER BY OWNER. VALVE AND CONNECT 1/2" COLD WATER. PIPE DISCHARGE TO FLOOR DRAIN.
- 31. 3" DOMESTIC COLD WATER, 1 1/2" HOT WATER, AND 1/2" HOT WATER RETURN UP TO MEZZANINE. REFER TO UPPER APPARATUS BAY AND MEZZANINE PLAN FOR CONTINUATION.
- 32. PROVIDE WATER HAMMER AT THE TOP OF THE DROP. LOCATE WATER HAMMER ARRESTOR WHERE ACCESSIBLE.
- 33. COORDINATE WASHER BOXES AND ASSOCIATED PIPING CAREFULLY WITH ALL TRADES. REFER TO DETAIL SHEET P3.1.
- 34. DROP 1/2" COLD WATER, 3/4" HOT WATER, AND 1/2" HOT WATER RETURN DOWN IN WALL. CONNECT 1/2" HOT WATER RETURN TO HOT WATER APPROXIMATELY 1' A.F.F. TRANSITION TO PEX PIPING AND EXTEND 1/2" COLD AND 1/2" HOT WATER INTO 4" SLEEVE TO BELOW FLOOR TO SERVE ISLAND SINK. REFER TO UNDERFLOOR PIPING PLAN FOR CONTINUATION.
- 35. 2" NON-POTABLE WATER FROM ABOVE TO FIRE HOSE TEST STATION. SEE DETAIL THIS SHEET.



1 WATER SERVICE
N.T.S.

- 1. 4" WATER SERVICE ENTRANCE BY FIRE SUPPRESSION CONTRACTOR.
- 2. FIRE SERVICE 4" DOUBLE DETECTOR CHECK BACKFLOW ASSEMBLY BY F.S.C.
- 3. 2" DOMESTIC WATER METER IN 3" METER SPREAD SPACE.
- 4. 2" X 3" REDUCER.
- 5. 3" BY-PASS LOCKABLE VALVE (VALVE NORMALLY CLOSED).
- 6. 3" REDUCED PRESSURE BACKFLOW PREVENTER. WATTS # 957 OR APPROVED EQUAL. PIPE DISCHARGE TO FLOOR DRAIN.
- 7. DI-ELECTRIC FLANGE. CHANGE FROM DUCTILE IRON PIPING TO COPPER PIPE.
- 8. 3" DOMESTIC WATER. SEE FLOOR PLAN FOR CONTINUATION.
- 9. 2" REDUCED PRESSURE BACKFLOW PREVENTER FOR NON-POTABLE WATER.
- 10. DI-ELECTRIC FITTING. CHANGE FROM DUCTILE IRON PIPING TO COPPER PIPE.
- 11. 2" NON-POTABLE WATER. SEE FLOOR PLAN FOR CONTINUATION.
- 12. 2" VALVE WITH 1.75" NST HOSE THREAD OUTLET.
- 13. 4" X 3" REDUCER.

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



STORM SHELTER NOTES

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3 1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2 1/16" IN DIAMETER SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PROTECTIVE DEVICES.

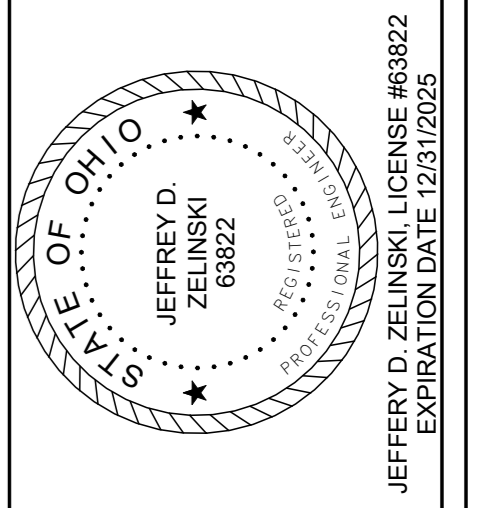
WATER NOTE
SHELTER CAPACITY IS 19 PEOPLE. ONE WATER CLOSET IS REQUIRED. THE LAVATORY IS NOT REQUIRED. HAND SANITIZER WILL BE STORED BY THE OWNER.
BASED ON 3 WATER CLOSET USES PER 8 HOUR PERIOD (FROM L.E.D.), IN A 2 HOUR PERIOD THAT WOULD EQUAL 3/4 USES PER PERSON. FOR 19 PEOPLE, 15 FLUSHES WOULD BE REQUIRED. THE WATER CLOSET TANK WILL BE FILLED UPON ENTRY INTO THE SHELTER, SO ENOUGH WATER FOR 14 FLUSHES IS REQUIRED TO BE STORED IN THE SHELTER. AT 1.28 GALLONS PER FLUSH THAT WILL REQUIRE 19 GALLONS MINIMUM BE STORED FOR WATER CLOSET USAGE. ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING. INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS.



SCALE: 1/8"=1'-0"
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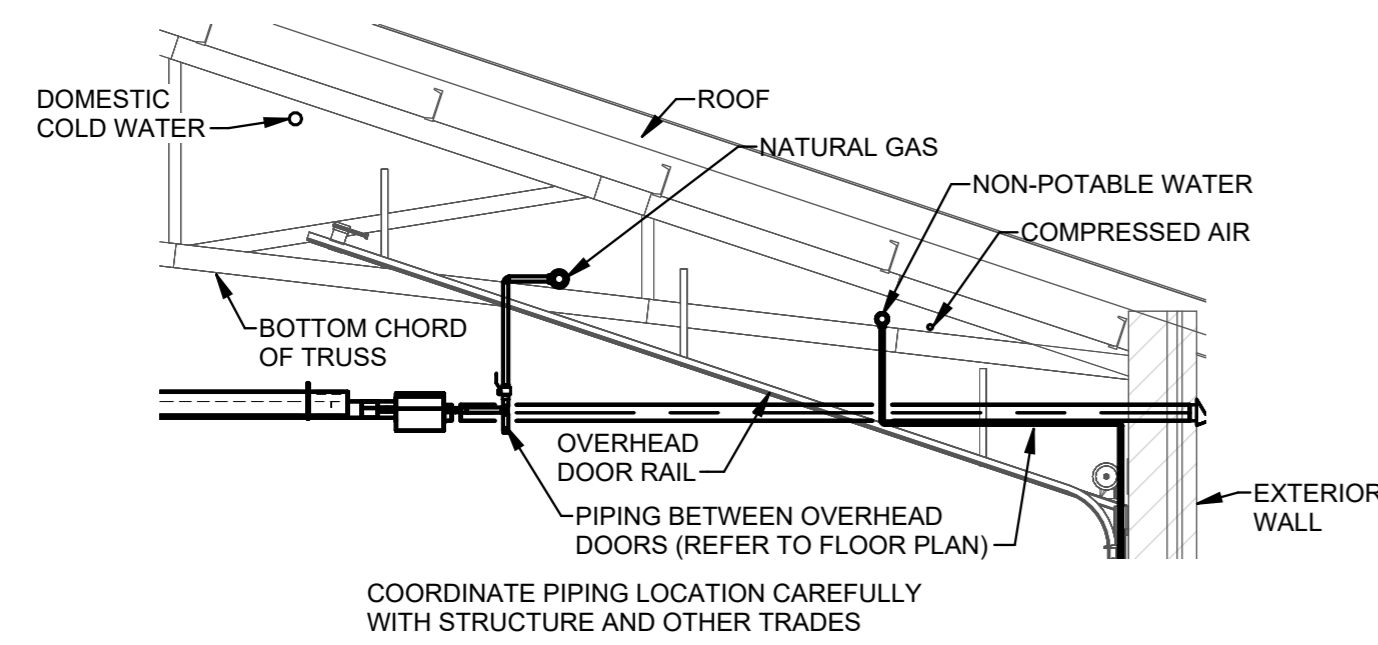
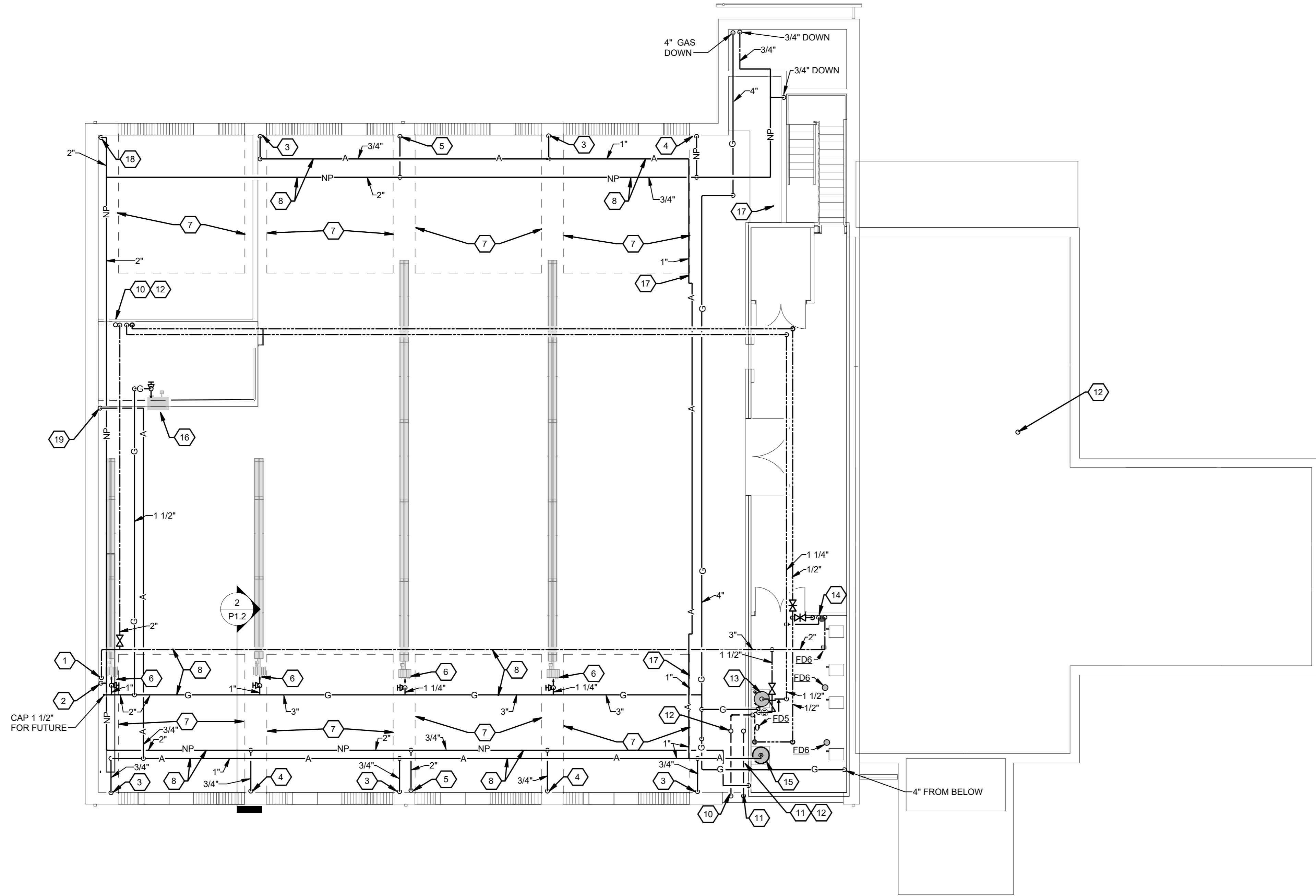
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P.1.1	



Section
2 SCALE: 1/4" = 1'-0"

UPPER APPARATUS BAY AND MEZZANINE PLAN
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. 3" DOMESTIC COLD WATER, FROM BELOW. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
2. 2" NON-POTABLE WATER, FROM BELOW. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
3. 3/4" COMPRESSED AIR DOWN TO HOSE REEL. SECURE PIPING TO BLOCK WALL. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
4. 3/4" NON-POTABLE WATER DOWN TO HOSE REEL. SECURE PIPING TO BLOCK WALL. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
5. 2" NON-POTABLE WATER DOWN TO HOSE VALVE. SECURE PIPING TO BLOCK WALL. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
6. GAS FIRED RADIANT HEATER BY H.C. DROP GAS DOWN TO UNIT VALVE AND CONNECT TO UNIT. PROVIDE VALVE, FULL SIZE DIRT LEG AND UNION. REFER TO GAS CONNECTION DETAIL.
7. OUTLINE OF OVERHEAD DOOR IN OPEN POSITION.
8. PIPING ABOVE BOTTOM CHORD OF TRUSS (KEEP NEAR UNDERSIDE OF ROOF) AND ABOVE OVERHEAD DOOR RAILS. REFER SECTION THIS SHEET AND TO ARCHITECTURAL DRAWINGS.
9. 4" GAS DOWN TO FIRST FLOOR
10. 2" VENT RISER FROM BELOW.
11. 3" OIL INTERCEPTOR VENT.
12. 3" VENT THRU ROOF.
13. WATER HEATER REFER TO DETAIL SHEET P3.1
14. 2" DOMESTIC COLD WATER, 1 1/2" HOT WATER, 1/2" HOT WATER RETURN, TO FIRST FLOOR. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
15. AIR COMPRESSOR. REFER TO DETAIL SHEET P3.1.
16. GAS FIRED UNIT HEATER BY H.C. DROP 1 1/4" GAS DOWN TO UNIT VALVE AND CONNECT TO UNIT. PROVIDE FULL SIZE DIRT LEG. REFER TO GAS CONNECTION DETAIL.
17. PIPING NEAR UNDERSIDE OF ROOF FOLLOWING PITCH OF ROOF. PROVIDE DOUBLE OFFSET WHERE SHOWN TO TRANSITION TO FLAT RUN PIPING.
18. 2" NON-POTABLE WATER DOWN TO HOSE TEST STATION. SECURE PIPING TO BLOCK WALL. REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
19. DROP 3/4" COMPRESSED AIR DOWN. SEE FIRST FLOOR FOR CONTINUATION.

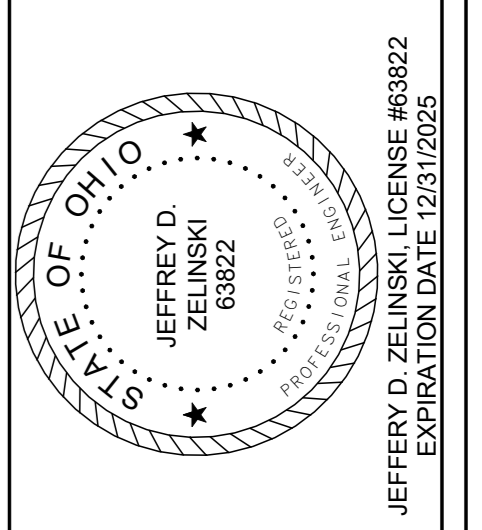
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NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY

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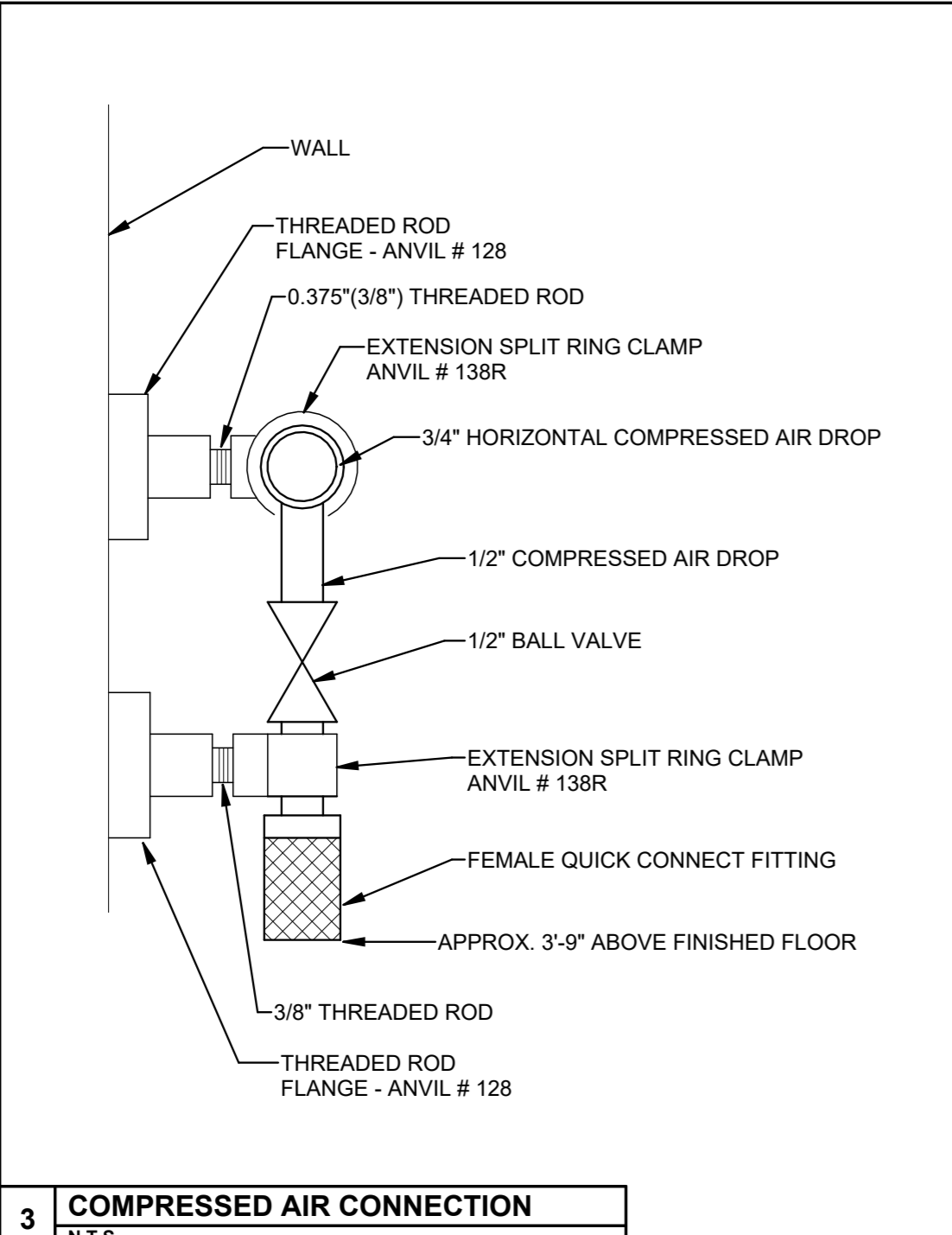
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UPPER APPARATUS BAY AND MEZZANINE PLAN

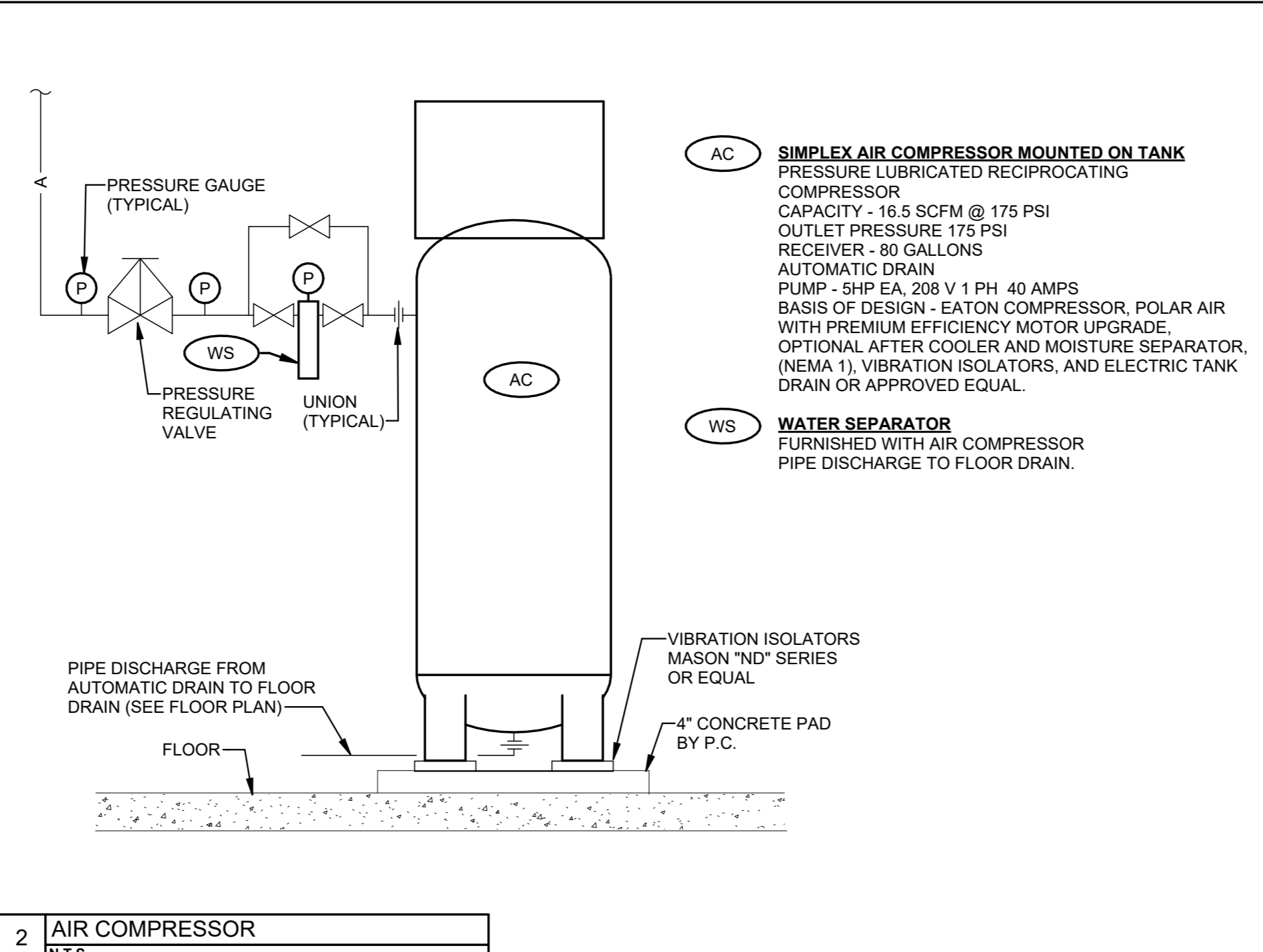
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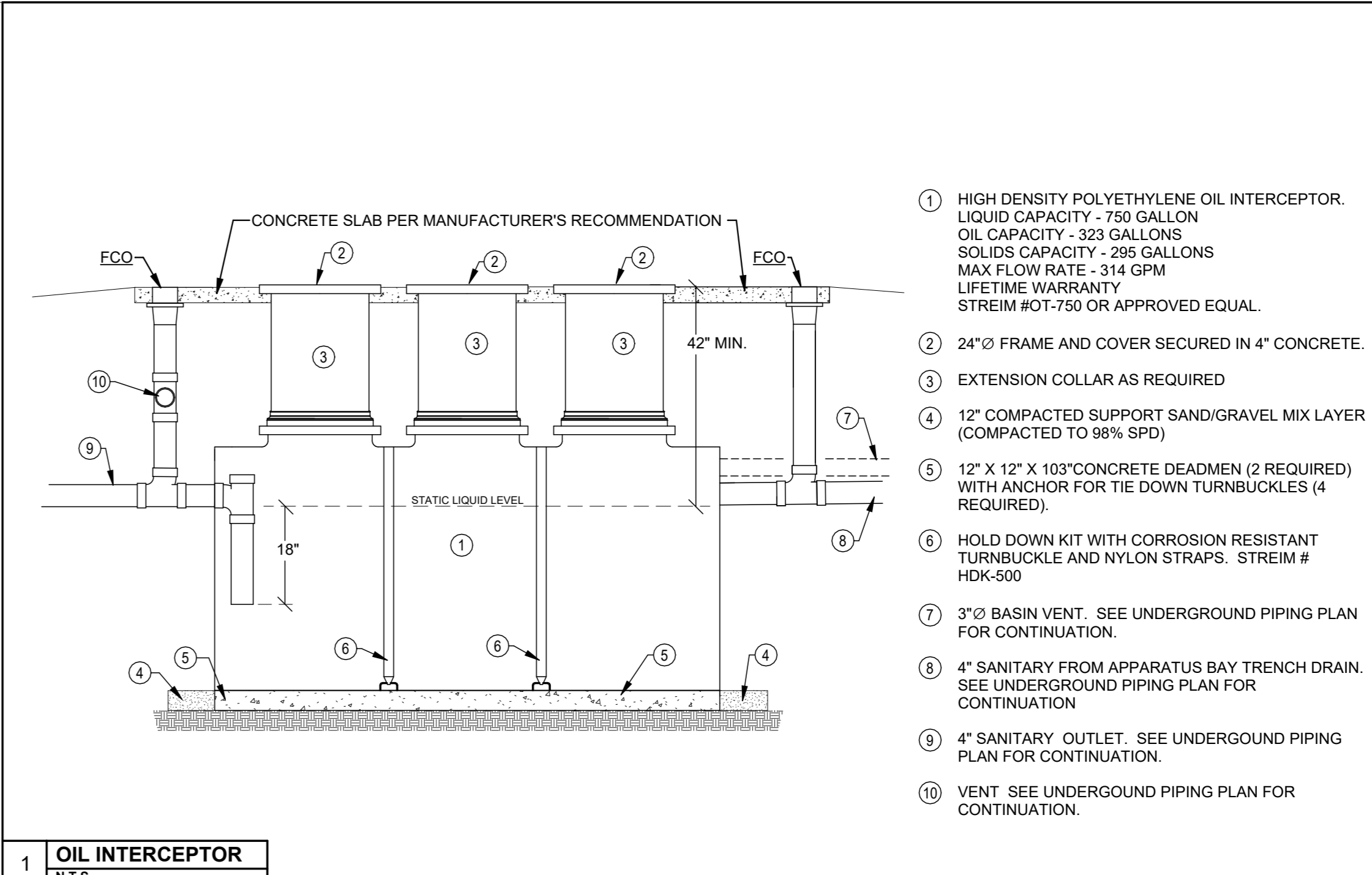
SCALE: 1/8" = 1'-0"
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone (937) 223-3851 • Fax (937) 223-3849
PROJECT # 23015



3 COMPRESSED AIR CONNECTION
N.T.S.

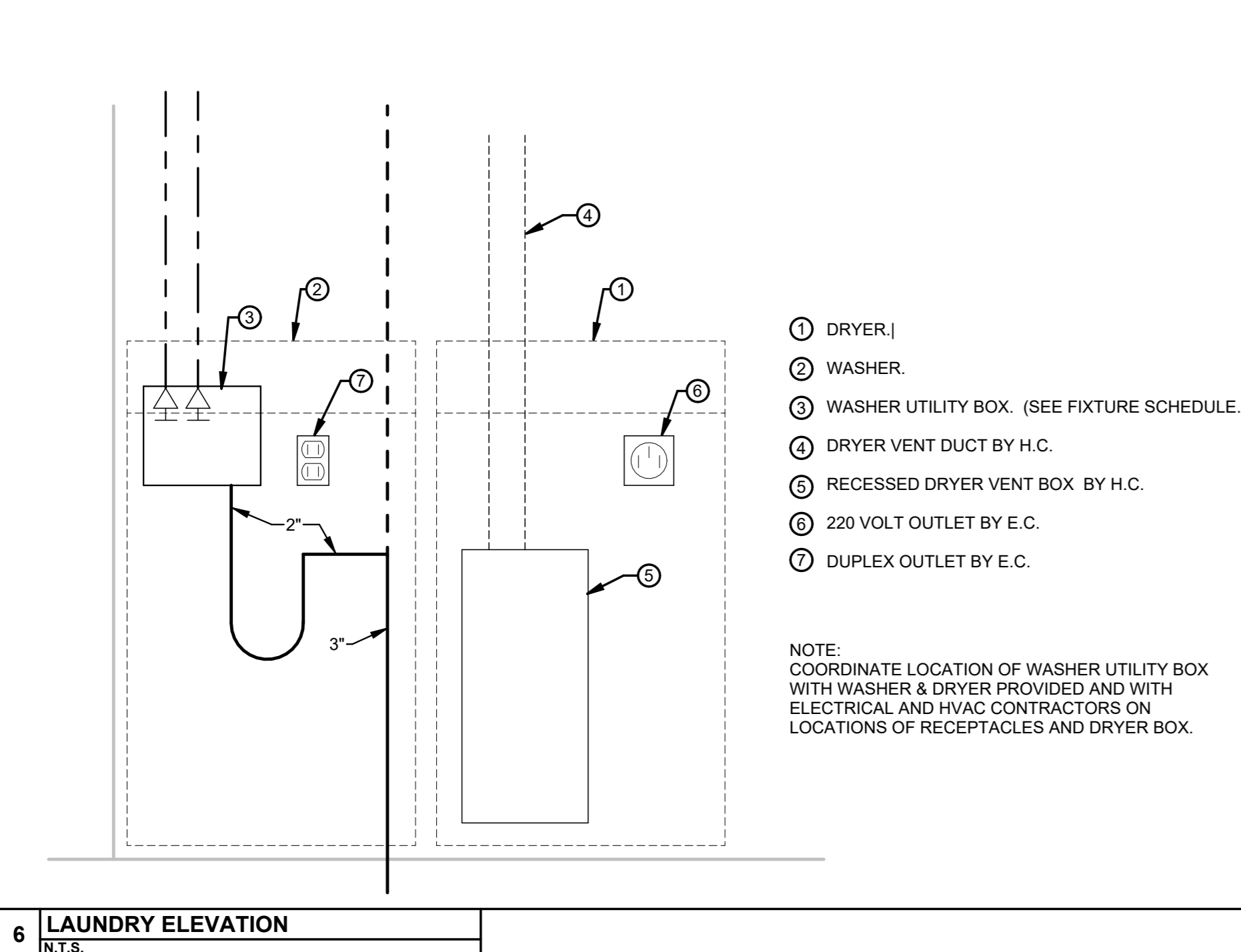


2 AIR COMPRESSOR
N.T.S.



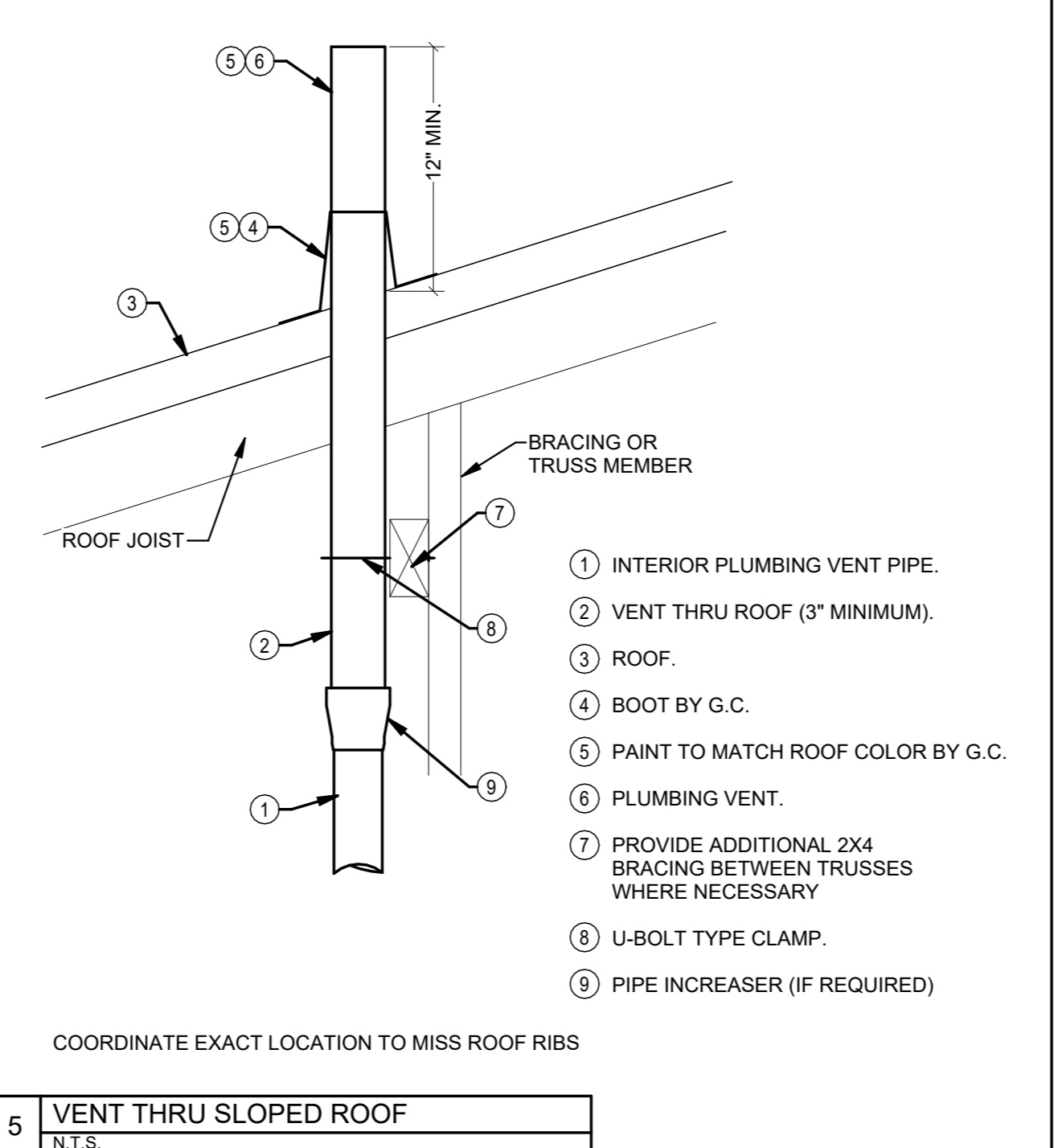
1 OIL INTERCEPTOR
N.T.S.

- 1 HIGH DENSITY POLYETHYLENE OIL INTERCEPTOR. LIQUID CAPACITY - 750 GALLON. OIL CAPACITY - 323 GALLONS. SOLIDS CAPACITY - 295 GALLONS. MAX FLOW RATE - 314 GPM. LIFETIME WARRANTY. STREAM #07-750 OR APPROVED EQUAL.
- 2 24"Ø FRAME AND COVER SECURED IN 4" CONCRETE.
- 3 EXTENSION COLLAR AS REQUIRED
- 4 12" COMPACTED SUPPORT SAND/GRAVEL MIX LAYER (COMPACTED TO 98% SPD)
- 5 12" X 12" X 103" CONCRETE DEADMEN (2 REQUIRED) WITH ANCHOR FOR TIE DOWN TURNBUCKLES (4 REQUIRED).
- 6 HOLD DOWN KIT WITH CORROSION RESISTANT TURNBUCKLE AND NYLON STRAPS. STREAM # HDK-500
- 7 3"Ø BASIN VENT. SEE UNDERGROUND PIPING PLAN FOR CONTINUATION.
- 8 4" SANITARY FROM APPARATUS BAY TRENCH DRAIN. SEE UNDERGROUND PIPING PLAN FOR CONTINUATION.
- 9 4" SANITARY OUTLET. SEE UNDERGROUND PIPING PLAN FOR CONTINUATION.
- 10 VENT. SEE UNDERGROUND PIPING PLAN FOR CONTINUATION.



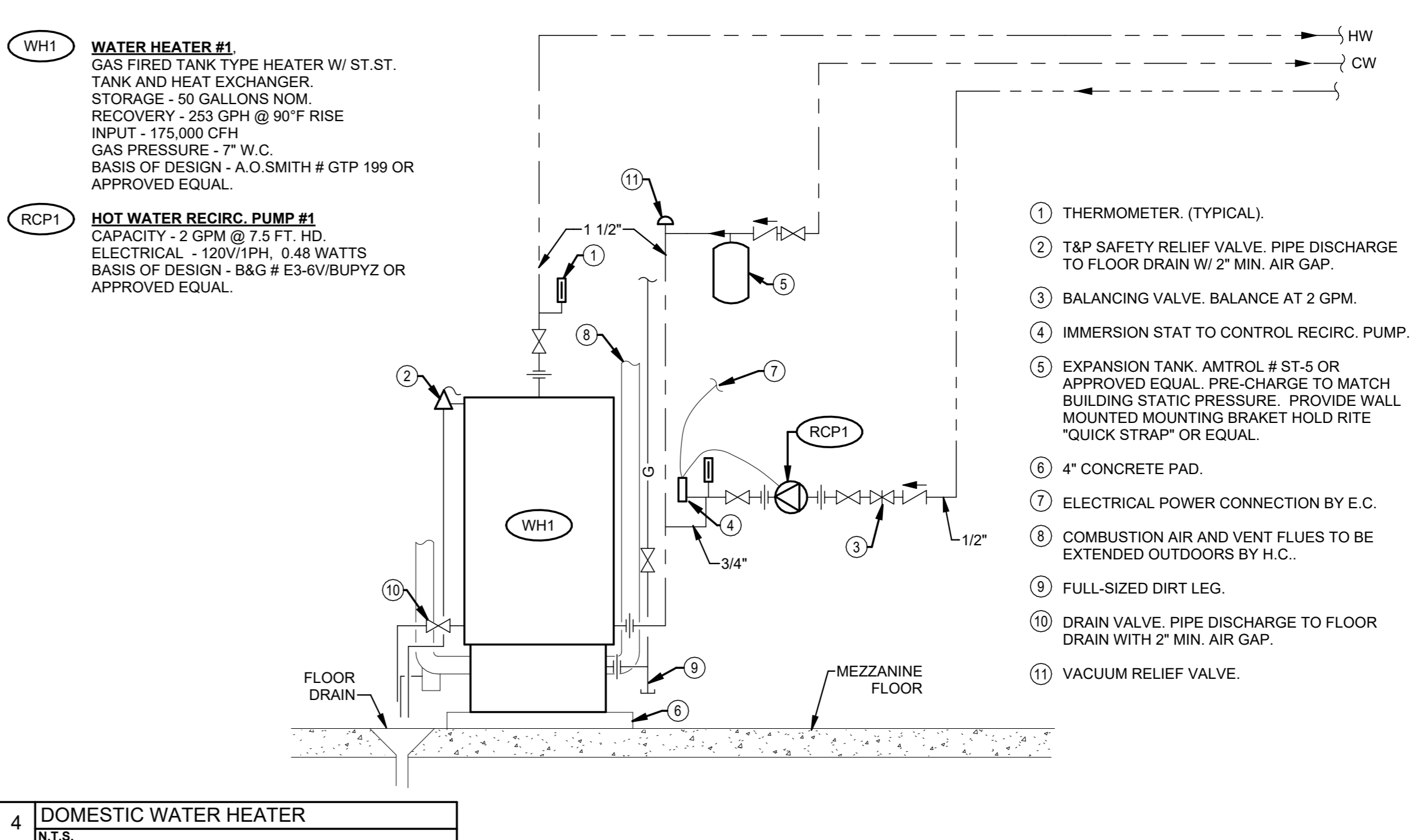
6 LAUNDRY ELEVATION
N.T.S.

- 1 DRYER.
 - 2 WASHER.
 - 3 WASHER UTILITY BOX. (SEE FIXTURE SCHEDULE.)
 - 4 DRYER VENT DUCT BY H.C.
 - 5 RECESSED DRYER VENT BOX BY H.C.
 - 6 220 VOLT OUTLET BY E.C.
 - 7 DUPLEX OUTLET BY E.C.
- NOTE: COORDINATE LOCATION OF WASHER UTILITY BOX WITH WASHER & DRYER PROVIDED AND WITH ELECTRICAL AND HVAC CONTRACTORS ON LOCATIONS OF RECEPTACLES AND DRYER BOX.



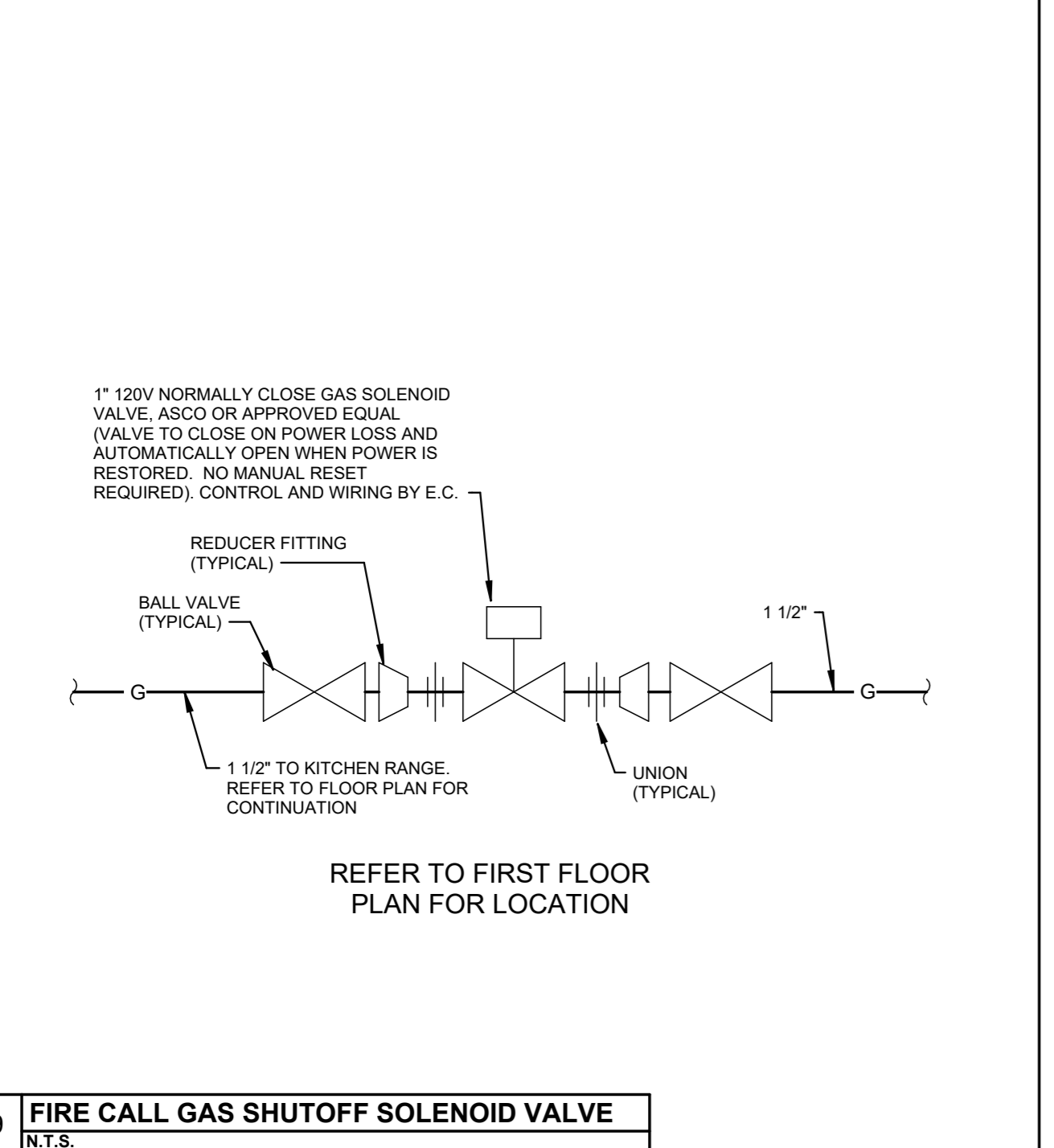
5 VENT THRU SLOPED ROOF
N.T.S.

- 1 INTERIOR PLUMBING VENT PIPE.
 - 2 VENT THRU ROOF (3" MINIMUM).
 - 3 ROOF.
 - 4 BOOT BY G.C.
 - 5 PAINT TO MATCH ROOF COLOR BY G.C.
 - 6 PLUMBING VENT.
 - 7 PROVIDE ADDITIONAL 2X4 BRACING BETWEEN TRUSSES WHERE NECESSARY
 - 8 U-BOLT TYPE CLAMP.
 - 9 PIPE INCREASER (IF REQUIRED)
- COORDINATE EXACT LOCATION TO MISS ROOF RISBS

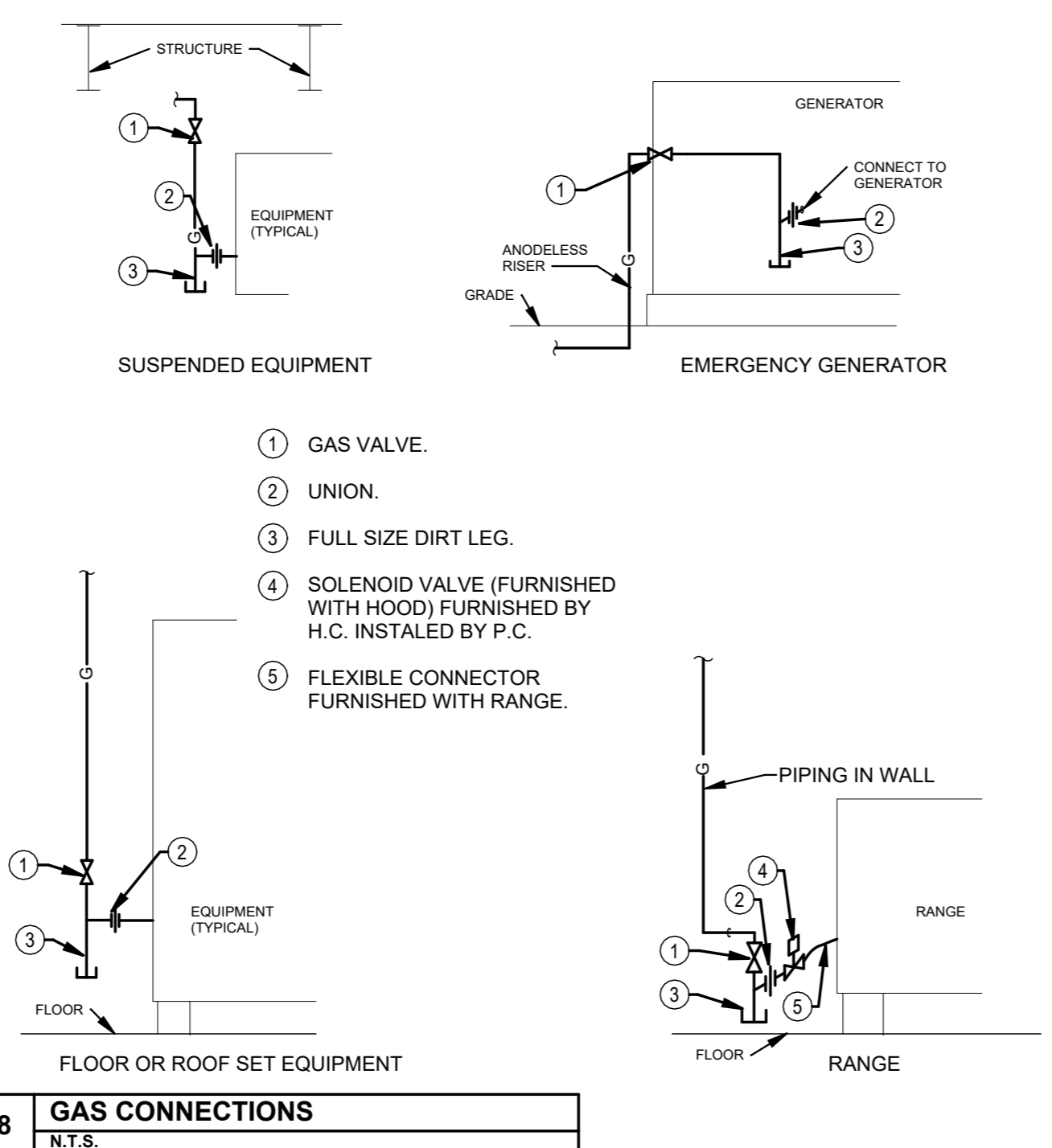


4 DOMESTIC WATER HEATER
N.T.S.

- 1 THERMOMETER. (TYPICAL).
- 2 T&P SAFETY RELIEF VALVE. PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
- 3 BALANCING VALVE. BALANCE AT 2 GPM.
- 4 IMMERSION STAT TO CONTROL RECIRC. PUMP.
- 5 EXPANSION TANK. AMTROL # ST-5 OR APPROVED EQUAL. PRE-CHARGE TO MATCH BUILDING STATIC PRESSURE. PROVIDE WALL MOUNTED MOUNTING BRACKET HOLD RITE "QUICK STRAP" OR EQUAL.
- 6 4" CONCRETE PAD.
- 7 ELECTRICAL POWER CONNECTION BY E.C.
- 8 COMBUSTION AIR AND VENT FLUES TO BE EXTENDED OUTDOORS BY H.C..
- 9 FULL-SIZED DIRT LEG.
- 10 DRAIN VALVE. PIPE DISCHARGE TO FLOOR DRAIN WITH 2" MIN. AIR GAP.
- 11 VACUUM RELIEF VALVE.



9 FIRE CALL GAS SHUTOFF SOLENOID VALVE
N.T.S.



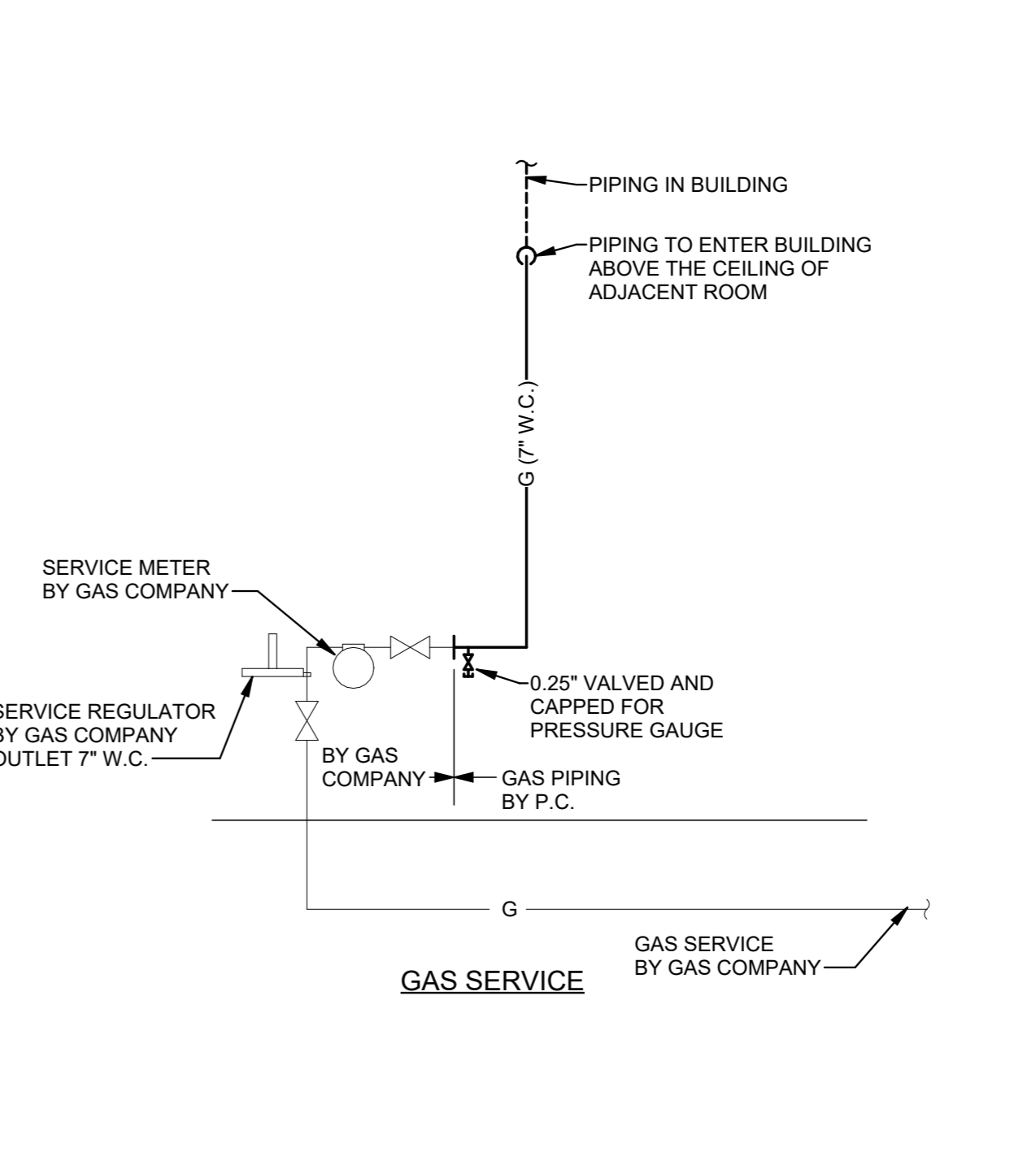
8 GAS CONNECTIONS
N.T.S.

GAS LOAD SCHEDULE

GENERAL NOTES
 • PIPING SIZED USING THE LONGEST LENGTH METHOD.
 • LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE 402.4(2) OF THE 2015 IFC.

ITEM	LOAD	
RADIANT GAS-FIRED HEATER RH-1	85	CFH
RADIANT GAS-FIRED HEATER RH-2	85	CFH
RADIANT GAS-FIRED HEATER RH-3	150	CFH
RADIANT GAS-FIRED HEATER RH-4	150	CFH
GAS-FIRED UNIT HEATER GUH-1	215	CFH
DESIGNATED OUTSIDE AIR SYSTEM DOAS-1	200	CFH
WATER HEATER WH1	175	CFH
KITCHEN RANGE	215	CFH
GRILL	75	CFH
FIRE PIT	100	CFH
GENERATOR	2,400	CFH
TOTAL	3,850	CFH
FUTURE RADIANT GAS-FIRED HEATER	150	CFH

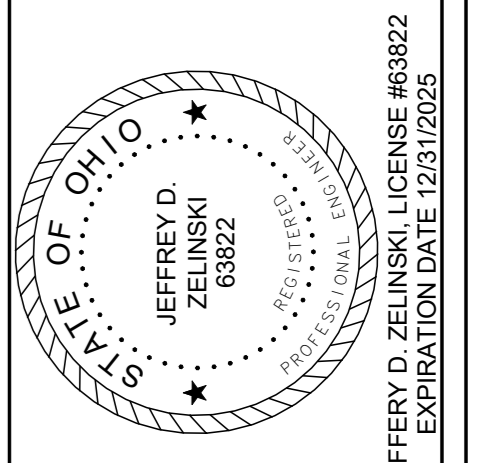
7 GAS SERVICE RISER
N.T.S.



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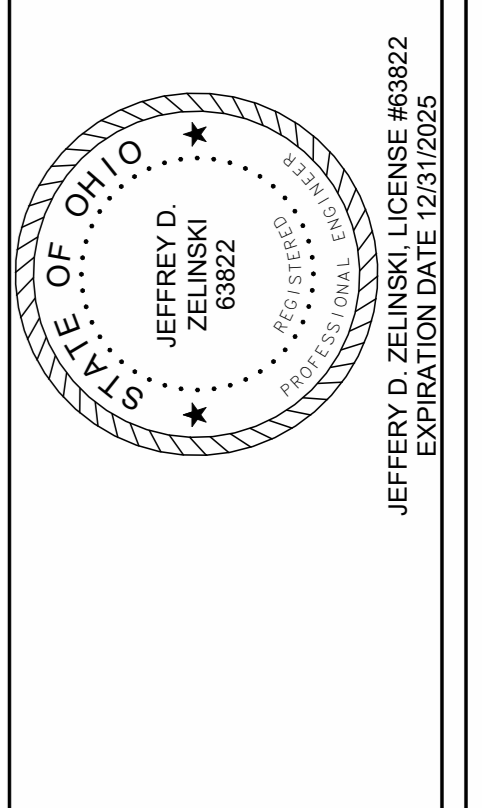
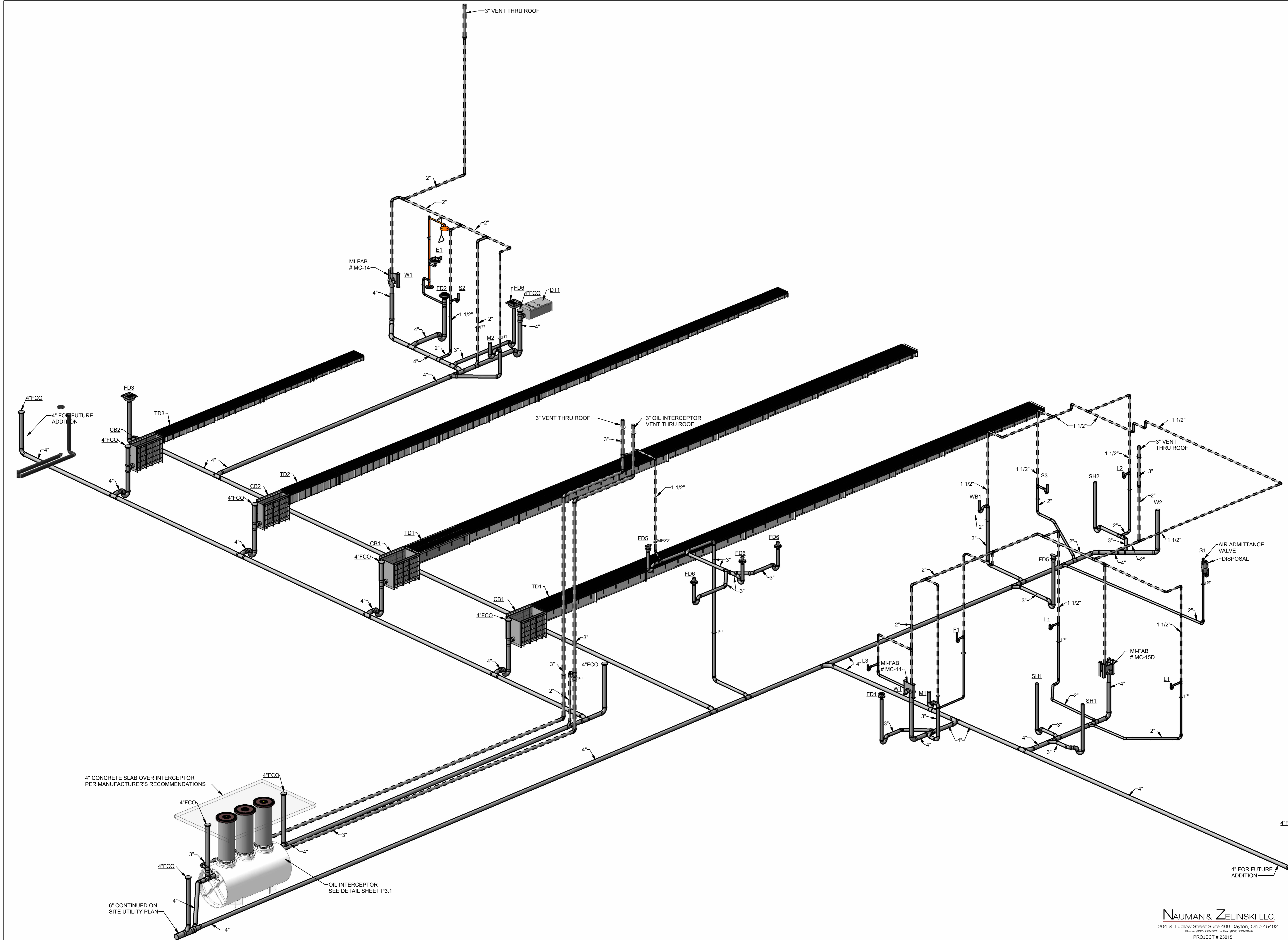
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DETAILS	
P3.1	



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SOIL, WASTE, AND VENT	

SEISMIC CONTROL SPECIFICATIONS

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. THIS SECTION INCLUDES THE FOLLOWING:
 1. SEISMIC CONTROL REQUIREMENTS.
- 1.2 PERFORMANCE REQUIREMENTS
 - A. SEISMIC CERTIFICATION AND ANALYSIS:
 1. EACH TRADE CONTRACTOR SHALL RETAIN A SPECIALTY CONSULTANT OR EQUIPMENT MANUFACTURER TO DEVELOP A SEISMIC RESTRAINT SYSTEM AND PERFORM SEISMIC CALCULATIONS IN ACCORDANCE WITH THE OBC AND ASCE 7, AND ADDITIONAL REQUIREMENTS SPECIFIED IN THIS SECTION. A PROFESSIONAL ENGINEER EXPERIENCED IN SEISMIC RESTRAINT DESIGN AND INSTALLATION AND LICENSED IN THE STATE OF OHIO SHALL BE RESPONSIBLE FOR CALCULATIONS, RESTRAINT SELECTIONS AND INSTALLATION DETAILS.
 2. THE SEISMIC RESTRAINT DESIGN SHALL CLEARLY INDICATE THE ATTACHMENT POINTS TO THE BUILDING STRUCTURE AND DESIGN FORCES IN ALL HORIZONTAL AND VERTICAL AXES AT THE ATTACHMENT POINTS. THE SEISMIC RESTRAINT ENGINEER SHALL COORDINATE ALL ATTACHMENTS WITH THE BUILDING'S STRUCTURAL ENGINEER OF RECORD, WHO SHALL VERIFY THE ATTACHMENT METHODS AND THE ABILITY OF THE BUILDING STRUCTURE TO ACCEPT THE LOADS IMPOSED.
 3. THE SEISMIC RESTRAINT DESIGN SHALL BE BASED ON ACTUAL EQUIPMENT DATA (DIMENSIONS, WEIGHT, CENTER OF GRAVITY, ETC.) OBTAINED FROM SUBMITTALS OR THE MANUFACTURERS. THE EQUIPMENT MANUFACTURER SHALL VERIFY THAT THE ATTACHMENT POINTS ON THE EQUIPMENT CAN ACCEPT THE COMBINATION OF SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED. FOR LIFE SAFETY SYSTEMS AND OTHER SYSTEMS THAT MUST REMAIN OPERATIONAL DURING AND AFTER AN EARTHQUAKE, THE MANUFACTURER SHALL PROVIDE CERTIFICATION THAT THE EQUIPMENT CAN ACCEPT THE LOADS IMPOSED AND REMAIN OPERATIONAL.
 4. ANALYSIS SHALL INCLUDE CALCULATED DEAD LOADS, STATIC SEISMIC LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR THE CONNECTION OF THE EQUIPMENT OR SYSTEM TO THE STRUCTURE. ANALYSIS SHALL DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT AND/OR WELDED LENGTH. ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES DETAILED IN THE CODE ACTING THROUGH THE EQUIPMENT OR SYSTEM'S CENTER OF GRAVITY.
- 1.3 SUBMITTALS
 - A. DELEGATED-DESIGN SUBMITTAL: THE SEISMIC RESTRAINT DESIGN, CONSISTING OF CALCULATIONS, RESTRAINT SECTION, INSTALLATION DETAILS, AND OTHER DOCUMENTATION, SHALL BE SUBMITTED. THIS SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AS STATED ABOVE. THIS SUBMITTAL WILL BECOME PART OF THE PROJECT DESIGN CALCULATIONS, INCLUDED IN THE PROJECT RECORDS, AND WHEN REQUIRED, WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.
 - B. SEISMIC RESTRAINT DEVICES: PRODUCT DATA, VERIFICATION OF SEISMIC CAPABILITIES AND INSTALLATION DETAILS.
 - C. WELDING CERTIFICATES.
 - D. FIELD QUALITY-CONTROL TEST REPORTS.
- 1.4 QUALITY ASSURANCE
 - A. COMPLY WITH SEISMIC-RESTRAINT REQUIREMENTS IN THE OBC UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.
 - B. WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL."
 - C. ALL SEISMIC RESTRAINTS AND COMBINATION ISOLATOR / RESTRAINTS SHALL HAVE VERIFICATION OF THEIR SEISMIC CAPABILITIES. MANUFACTURERS MAY VERIFY THEIR CAPABILITIES BY TESTING THAT IS WITNESSED BY AN INDEPENDENT PROFESSIONAL ENGINEER OR AN ASSOCIATION THAT HAS DEVELOPED A UNIFORM SET OF TEST STANDARDS. INDEPENDENT APPROVAL CAN ALSO BE OBTAINED BY AGENCIES SUCH AS OSHPD (OFFICE OF STATEWIDE HEALTH, PLANNING AND DEVELOPMENT) FROM THE STATE OF CALIFORNIA, NES, ICBO ES, FACTORY MUTUAL, UNDERWRITERS LAB, RECOGNIZED INDUSTRY STANDARDS ORGANIZATIONS SUCH AS VISCMA, ETC.

PART 2 - PRODUCTS

- 2.1 SEISMIC-RESTRAINT DEVICES
 - A. SEISMIC RESTRAINT DEVICES MAY INCLUDE ANY MANUFACTURER'S SYSTEM(S) SUITABLE FOR THE BUILDING CONSTRUCTION APPLICATION.
 - B. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 1. THE VMC GROUP (VIBRATION MOUNTING AND CONTROLS)
 2. MASON INDUSTRIES
 3. KINETICS NOISE CONTROL.

SEISMIC GENERAL REQUIREMENTS

1. THE PROJECT HAS SEISMIC LOAD SUPPORT REQUIREMENTS BASED ON THE SEISMIC USE GROUP (OCCUPANCY) DESIGNATION OF THE FACILITY OF "IV" AND SEISMIC DESIGN CATEGORY "D". REFER TO DRAWING 50.0 FOR ADDITIONAL INFORMATION.
2. SEISMIC DESIGN REQUIREMENTS FOR MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE PROVIDED AS REQUIRED BY 2017 OHIO BUILDING CODE CHAPTER 16, SECTION 1613 EARTHQUAKE LOADS AND BY REFERENCE, THE AMERICAN SOCIETY OF STRUCTURAL ENGINEERS (ASCE) STANDARD 7-10 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES" (2010).
3. CHAPTER 13 OF ASCE 7-10 DEFINES THE REQUIREMENTS FOR THE MECHANICAL AND ELECTRICAL COMPONENTS.
4. THE COMPONENT IMPORTANCE FACTOR, I_p SHALL BE 1.5 FOR ALL COMPONENTS PER ASCE 7-10, 13.1.3 SINCE THE COMPONENTS ARE REQUIRED TO FUNCTION FOR LIFE SAFETY PURPOSES AFTER AN EARTHQUAKE AS WELL AS THE COMPONENTS ARE ALL LOCATED WITHIN AN OCCUPANCY CATEGORY "IV" STRUCTURE.
5. ASCE 7-10, TABLE 13.6-1 DEFINES THE SEISMIC AMPLIFICATION FACTOR A_p AND RESPONSE FACTOR R_p FOR EACH COMPONENT THAT SHALL BE USED IN DETERMINING THE ATTACHMENT REQUIREMENTS.
6. CERTAIN COMPONENTS TO BE SEISMICALLY BRACED AND SUPPORTED ARE TO ALSO INCLUDE VIBRATION ISOLATION WHERE INDICATED.
7. COMPONENTS OR SYSTEMS CAN BE INSTALLED IN A MANNER TO REDUCE SEISMIC BRACING OR SUPPORT REQUIREMENTS. ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST FUNCTION AFTER AN EARTHQUAKE. EQUIPMENT, COMPONENTS, PIPING, DUCTWORK, CONDUIT, COMMUNICATION CABLING, ETC. SHALL BE SEISMICALLY BRACED. GENERAL GUIDELINES OR APPROACH FOR PROJECT SYSTEMS:
 - A. DUCTWORK IS DESIGNED TO BE LESS THAN 6 SQ. FT., NO SEISMIC BRACING.
 - B. PIPING SHOULD BE HUNG TIGHT TO STRUCTURE WITH THREADED ROD LESS THAN 1/2", NO SEISMIC BRACING IF INSTALLED IN THIS MANNER.
 - C. FLOOR OR GRADE SET EQUIPMENT, TO BE ANCHORED TO EQUIPMENT PAD AND IN TURN SECURED TO THE FLOOR.
 - D. FIRE SUPPRESSION PIPING SHALL BE SEISMIC BRACED PER THE REQUIREMENTS OF NFPA 13.
 - E. FLOOR/WALL MOUNTED ELECTRICAL EQUIPMENT, PANELBOARDS, AUTOMATIC TRANSFER SWITCHES, ETC. SHALL BE SEISMICALLY BRACED/SUPPORTED.
 - F. LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING SYSTEMS.
 - G. CEILING FANS SHALL BE SEISMICALLY BRACED/SUPPORTED.
 - H. CONDUITS 2.5" AND LARGER SHALL BE SEISMICALLY BRACED/SUPPORTED.

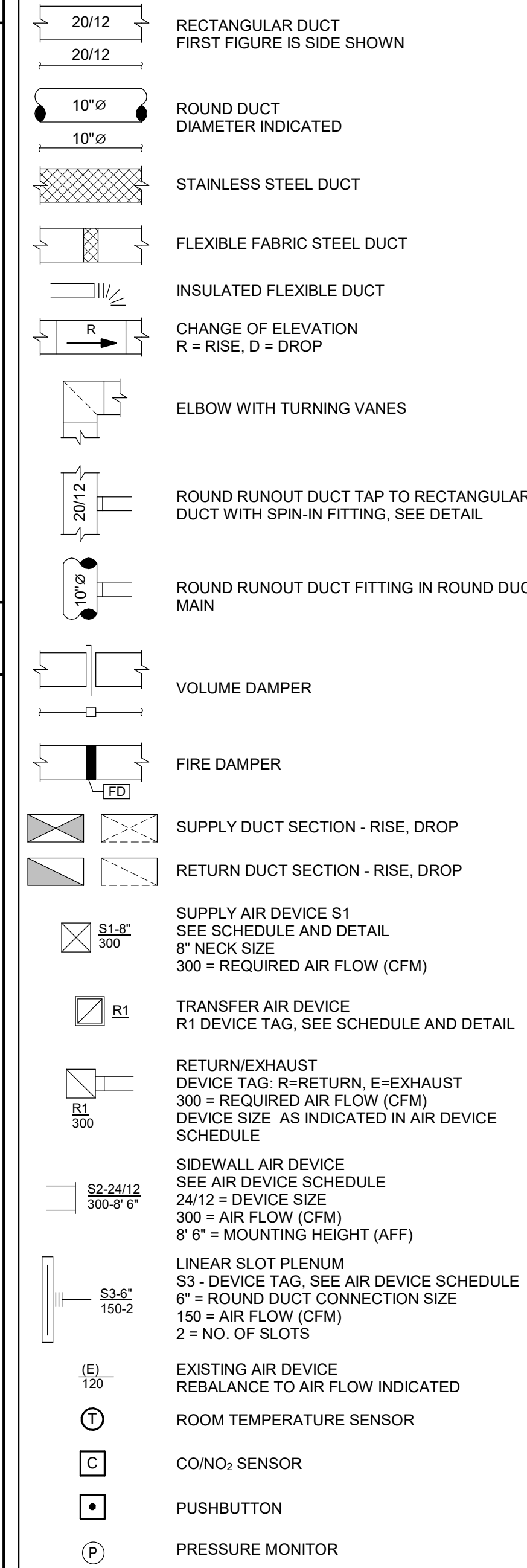
GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
6. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
7. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
8. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES.
9. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
10. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
11. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
12. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
13. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
14. PROVIDE WARRANTY FOR ALL WORKMANSHIP. EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

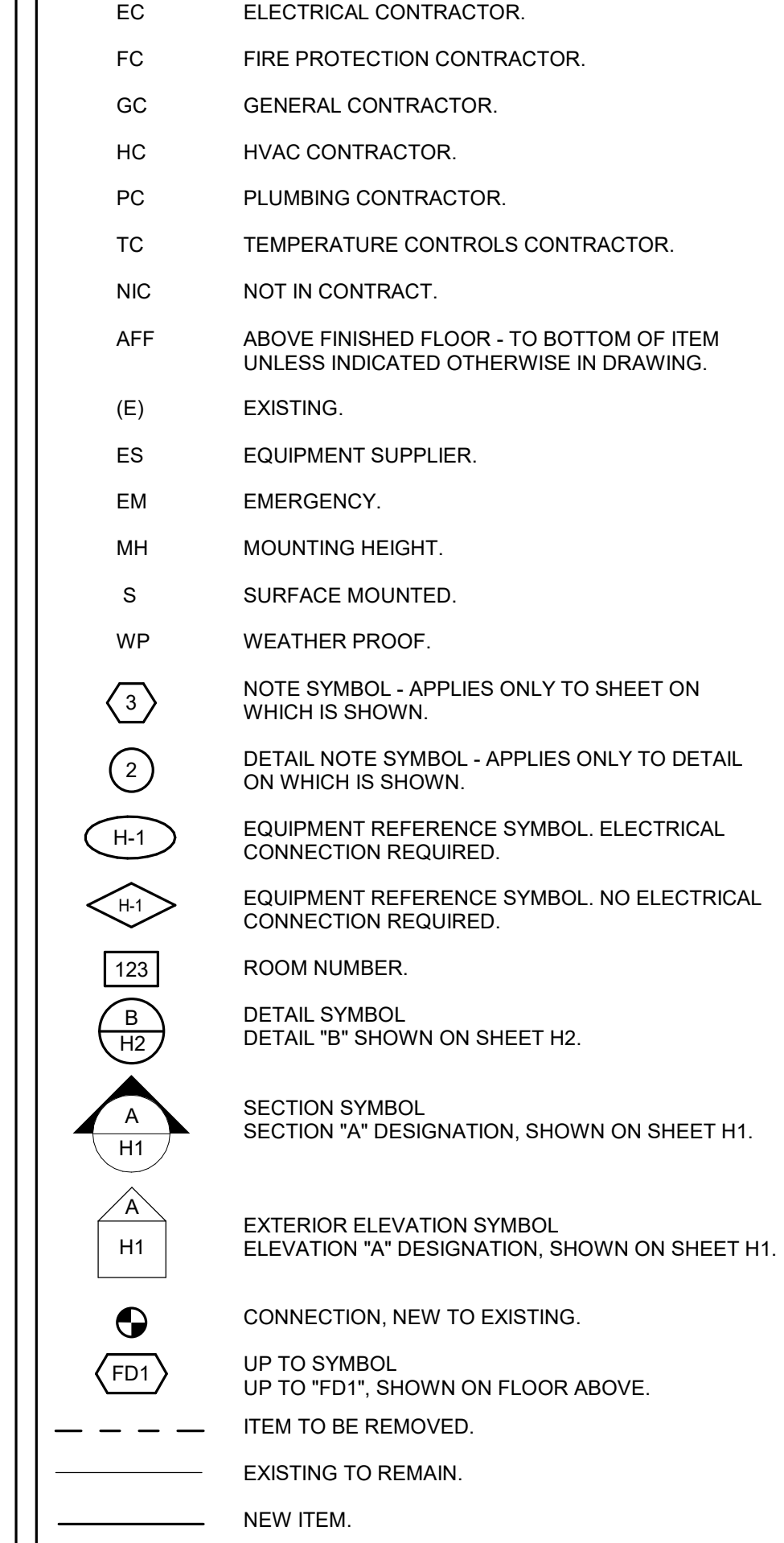
DUCTWORK LEGEND



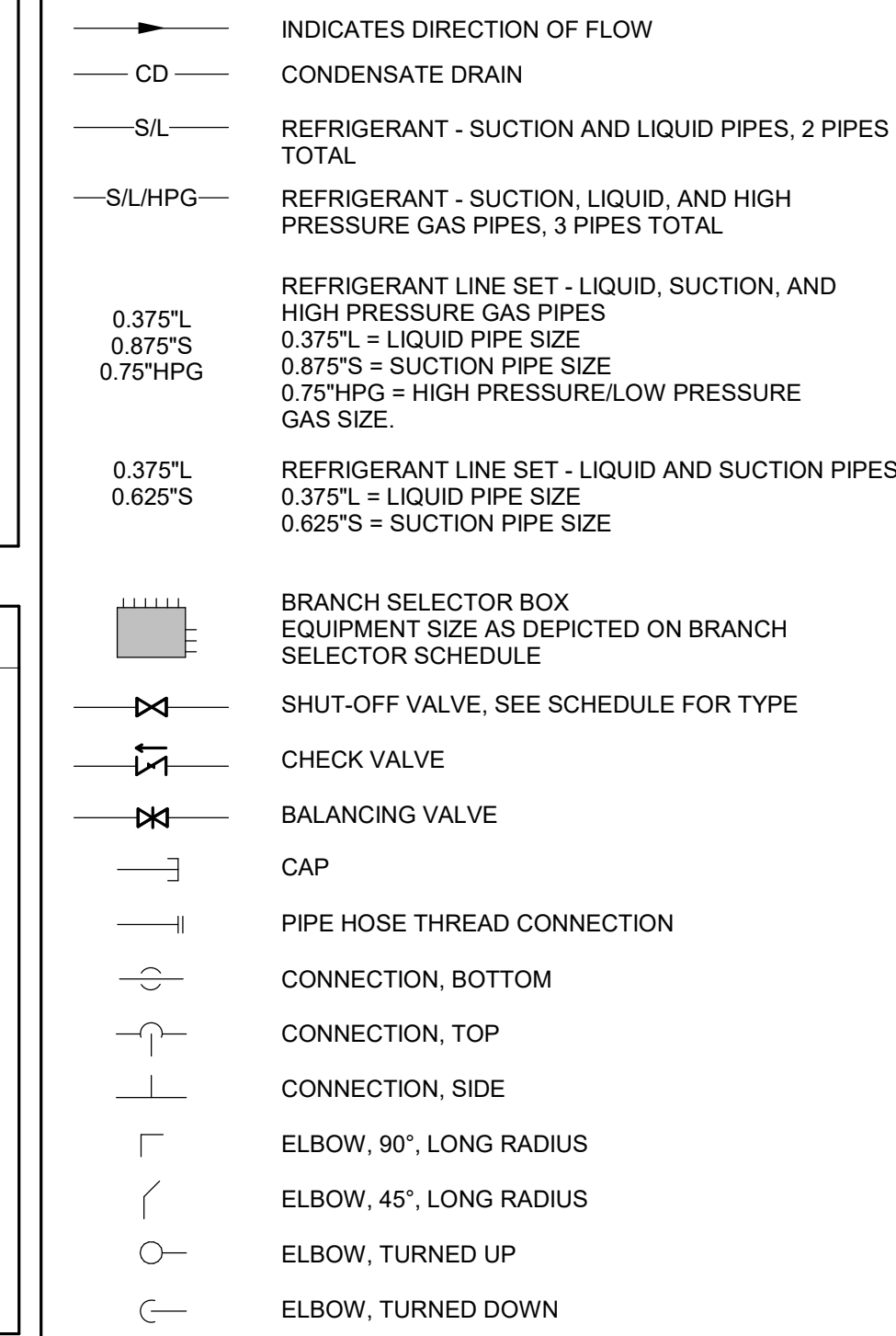
HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS AND SCHEDULES
H0.2	DUCTWORK MATERIAL SCHEDULES
H0.3	PIPING MATERIAL SCHEDULES
H0.4	EQUIPMENT SCHEDULES
H0.5	VRF SYSTEM SCHEDULE
H1.1	1ST FLOOR PLAN
H1.2	MEZZANINE & MECHANICAL ROOM PLANS
H1.3	ROOF PLAN
H2.1	SECTIONS
H2.2	SECTIONS
H3.1	DETAILS
H3.2	DETAILS
H3.3	DETAILS
H3.4	DETAILS
H3.5	DETAILS
H3.6	DETAILS
H4.1	CONTROLS
H4.2	CONTROLS
H4.3	CONTROLS
H5.1	VENTILATION

GENERAL LEGEND



PIPING LEGEND



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STATE OF OHIO
 JEFFREY D. ZELINSKI
 63822
 PROFESSIONAL ENGINEER
 EXPIRATION DATE: 12/31/2025

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DJZ	DJZ

LEGENDS AND SCHEDULES

DUCT INSULATION SCHEDULE

QUALITY ASSURANCE

INSULATION SHALL MEET NFPA 255, 25 FLAME SPREAD & 50 SMOKE DEVELOPMENT, UL 181, NFPA 90A/90B, ASTM 1136, AND ASTM E84.

MINIMUM INSULATION THICKNESS SHALL COMPLY WITH ASHRAE 90.1-2010

PRODUCTS

- PROTECTIVE METAL JACKET COVERS - 0.016" ALUMINUM.

EXECUTION

- INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

- DUCTWORK SHALL BE SEALED PRIOR TO INSTALLATION OF INSULATION.

- ALL EXTERIOR DUCT INSULATION SHALL BE SEALED WATERTIGHT.

- REINSULATE DUCTWORK WHERE EXISTING INSULATION IS DAMAGED IN CONNECTION OF NEW DUCTWORK

- ALL INSULATION VAPOR BARRIERS SHALL BE MAINTAINED.

- ADHESIVE SHALL BE APPLIED TO AID INSTALLATION.

- REQUIRED INTERNAL DUCT LINING IS INDICATED ON DRAWINGS. LINED DUCTWORK NEED NOT BE FURTHER INSULATED.

- DUCT COILS, REHEAT BOX COILS, CONTROL DAMPER, FIRE DAMPERS & SMOKE DAMPERS SHALL BE INSULATED IF SYSTEM INSULATION IS INDICATED.

- ALL INSULATION SHALL BE MARKED WITH MANUFACTURER, "R" VALUE, FLAME SPREAD & SMOKE DEVELOPMENT.

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
SUPPLY AIR DUCT	2"	1	IN ATTIC	
SUPPLY AIR DUCT	INTEGRAL W/ DUCT	4	EXTERIOR	2
OUTDOOR AIR DUCT & PLEMUNS	1.5"	1	CONCEALED	
OUTDOOR AIR DUCT & PLEMUNS	2"	2	EXPOSED	
OUTDOOR AIR SUPPLY	INTEGRAL W/ DUCT	4	EXTERIOR	2
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RETURN AIR DUCT	1.5"	1	IN ATTIC	
RETURN AIR DUCT	1"	3	FC-1, FC-3, FC-4, FC-5	
RELIEF AIR DUCT & PLENUMS	-	-	ALL	
EXHAUST AIR DUCT & PLENUMS	1.5"	1	IN ATTIC	
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE	
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED	
3	OWENS-CORNING QUIET R ROTARY DUCT LINER	KNAUF JM CERTAIN TEED JOHNS MANVILLE	MATERIAL FIBERGLASS DUCT LINER K = 0.23 @ 75 DEG. F JACKET - NONE JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - COMPLIES WITH ASTM C916 TAPE - NONE LEADING EDGES - METAL NOSING	
4	THERMADUCT	PRO-R DUCT TUFF DUCT	HIGH EFFICIENCY PRE-INSULATED OUTDOOR AIR DUCT R = 8.1 WEATHER PROOF OUTDOOR CLADDING VAPOR BARRIER: BONDED ALUMINUM FOIL WITH ZERO PERMABILITY	

NOTES:

- PROVIDE TWO LAYERS OF FIRE BARRIER WRAP ON ALL INTERIOR TYPE I KITCHEN HOOD GREASE DUCT.
- DUCT SIZE INDICATED ON PLAN IS INTERIOR DIMENSION.

DUCT CONSTRUCTION MATERIAL SCHEDULE

DUCTWORK SYSTEM SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
OUTDOOR RETURN/EXHAUST AIR	ALL	G1	-2"	C	
OUTDOOR SUPPLY AIR	ALL	G1	+4"	A	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - VAV UPSTREAM	CONCEALED	G1	+4"	A	
SUPPLY AIR - VAV UPSTREAM	EXPOSED	G2	+4"	A	1
SUPPLY AIR - VAV DOWNSTREAM	CONCEALED	G1	+1"	C	
SUPPLY AIR - VAV DOWNSTREAM	EXPOSED	G2	+1"	C	1
SUPPLY AIR - CONSTANT VOLUME	CONCEALED	G1	+3"	B	
SUPPLY AIR	EXTERIOR	T1			
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
FLEXIBLE DUCTWORK - RET./EXH./TRANSFER	CONCEALED	C2	+10" -5"	N.A.	
KITCHEN HOOD EXHAUST	ALL	SS1	-2"	C	
DOMESTIC WATER HEATER INTAKE	ALL	P1	-2"	A	
DOMESTIC WATER HEATER FLUE	ALL	P1	+4"	A	
GAS FIRED UNIT HEATER INTAKE	ALL	G1	-2"	A	
GAS FIRED UNIT HEATER FLUE	ALL	D1	+4"	A	
RADIANT HEATER INTAKE	ALL	G1	-2"	A	
RADIANT HEATER FLUE	ALL	D1	+4"	A	2
DOMESTIC DRYER VENT	ALL	A1	+/-2"	A	
GEAR DRYER	ALL	SS1	+2"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
A1	ALUMINUM	22 GA. MIN., SPIRAL ALUMINUM. JOINTS FASTENED BY SCREWS/RIVETS - SCREWS SHALL NOT PROTRUDE FURTHER THAN 1/8" INTO AIR STREAM - OMC 504.8.2. SUPPORT AT 4' INTERVALS
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD
C2	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 4.2 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	DOUBLE WALL FLUE	REFER TO SPECIFICATION 235100.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.
P1	POLYPROPYLENE	SCHEDULED 40 POLYPROPYLENE PIPE AND FITTINGS PER UL 1738
SS1	STAINLESS STEEL EXHAUST DUCT	FACTORY BUILT SYSTEM - SELKIRK MODEL G OR EQUAL BY CAPTIVE AIRE OR METALFAB TYPE 304 STAINLESS STEEL SHEET - SINGLE WALL CONSTRUCTION: 18 GA. MIN. - ASTM A480. JOINTS & SEAMS: VEE BANDS AND SEALANT FINISH: CONDITION A, NO ADDITIONAL FINISH. DUCT ACCESSORIES: CLEANOUT AT BOTTOM OF RISER TO FAN AND 90 CHANGE IN DIRECTION.
T1	THERMADUCT	REFER TO INSULATION SCHEDULE.

NOTES:

- DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR EXPOSED INSTALLATIONS.
- FLUE REQUIRES 1" MINIMUM CLEARANCE TO COMBUSTIBLES IN ATTIC. PROVIDE ATTIC INSULATION SHIELD AND INSTALL PER MANUFACTURER'S RECOMMENDATION.

DUCT CONSTRUCTION GENERAL REQUIREMENTS

QUALITY ASSURANCE

- COMPLY WITH GENERAL WELDING PERSONNEL & PROCEDURES UNDER AWS D1.1/D1.1M, AWS D1.2/D1.2M & AWS D9.1/D9.1M.

- COMPLY WITH GENERAL DUCT CONSTRUCTION STANDARDS UNDER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - THIRD EDITION AND MOST CURRENT VERSION OF APPLICABLE ASHRAE 90.1 SECTION 6.4.4 AND ASHRAE 62.1 SECTIONS 5 & 7.

- COMPLY WITH SEISMIC REQUIREMENTS PRESCRIBED UNDER SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE THIRD EDITION & ASCE/SEI 7.

PRODUCTS

ROUND OR FLAT OVAL SINGLE WALL DUCTWORK - 2" S.P. AND HIGHER

- CONTINUOUS HELICAL (SPIRAL) LOCK SEAM CONSTRUCTION.
- SLIP CONNECTIONS; GASKETED FLANGES ARE NOT ACCEPTABLE.
- USE 45 DEG. LATERAL TEES WHEREVER POSSIBLE.
- 90 DEG. TEES SHALL BE CONICAL SPIN-IN TYPE.
- DIE STAMPED ELBOWS, r/D = 1.5 (MIN.)
- RADIUSED, ANGLED (15" MAX.) OR MITERED (15" MAX.) OFFSETS.
- CONCENTRIC TRANSITIONS, 0 = 45" MAX.
- ECCENTRIC TRANSITIONS, 0 = 30" MAX.

ROUND OR FLAT OVAL DOUBLE WALL DUCTWORK - 2" S.P. AND HIGHER (SAME AS ABOVE EXCEPT:)

- INSULATION THICKNESS PER INSULATION SCHEDULE FOR INTENDED SERVICE.
- PERFORATED INNER LINER/SOLID INNER LINER.
- OUTER PRESSURE SHELL.

ROUND DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT:)

- LONGITUDINAL SEALED SEAM CONSTRUCTION ACCEPTABLE AT FINAL AIR DEVICE ONLY.
- STANDARD TEES ALLOWED.
- SEGMENTED ELBOWS ALLOWED.

RECTANGULAR DUCTWORK - 2" S.P. AND HIGHER

- FLAT SLIP, STANDING DRIVE OR GASKETED FLANGE DUCT SYSTEM CONNECTIONS.
- RADIUS OR SQUARE THROAT WITH DOUBLE WALL TURNING VANES ELBOW.
- 45 DEG. ENTRY OR CONICAL SPIN-IN BRANCH CONNECTIONS.
- RADIUSED, ANGLED (15" MAX.) OR MITERED (15" MAX.) OFFSETS.
- CONCENTRIC TRANSITIONS, 0 = 45" MAX.
- ECCENTRIC TRANSITIONS, 0 = 30" MAX.
- BRANCH DUCTS SHALL BE CONICAL TEE FITTINGS.
- SQUARE THROAT, RADIUS HEEL 90° ELBOWS ARE NOT PERMITTED.

RECTANGULAR DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT:)

- TURNING VANES IN ELBOWS NOT REQUIRED FOR AIR VELOCITIES LESS THAN 800 FPM.
- STRAIGHT TAP AND STANDARD SPIN-IN BRANCH CONNECTIONS PERMITTED.

FLEXIBLE DUCTWORK - SUPPLY/RETURN/TRANSFER/EXHAUST

- PROVIDE MANUFACTURED DUCT SUPPORTS AT 90 DEGREE ELBOWS TO CEILING AIR DEVICES.
- FLAME SPREAD LESS THAN 25, SMOKE DEVELOPMENT LESS THAN 50.

DUCT SEALANT & GASKETS

- GALVANIZED DUCT SEALANT - WATER BASED SYNTHETIC LATEX EMULSION, GRAY IN COLOR.
- FLANGE GASKETS - BUTYL RUBBER, NEOPRENE, OR EPDM POLYMER W/ POLYISOBUTYLENE PLASTICIZER.
- ALUMINUM DUCT SEALANT - ALUMINUM SILICONE, GRAY IN COLOR.
- PVC COATED DUCT SEALANT - PVS SEALANT OR CAULK/MINERAL IMPREGNATED FIBER TYPE.

DUCT HANGER SUPPORTS

- DUCT HANGER SUPPORTS SHALL DIRECTLY ATTACH TO DUCTWORK.
- EXTERIOR DUCT INSULATION WRAP SHALL BE APPLIED OVER DUCT AND HANGER SUPPORTS.
- ANGLE OR UNISTRUT SUPPORTS SHALL BE INSULATED A MINIMUM OF 4" BEYOND DUCT BEARING POINT TO PREVENT CONDENSATION.

EXECUTION

- DRAWINGS INDICATE GENERAL LOCATION OF DUCTWORK. COORDINATE DUCT LAYOUT CAREFULLY WITH OTHER TRADES TO AVOID CONFLICT. PROVIDE OFFSETS AS REQUIRED.
- SPAN DUCTWORK FROM STRUCTURAL CONCRETE/STEEL MEMBERS OR SUPPLEMENTARY STEEL SHAPES.
- FOR EXPOSED DUCTWORK, GRIND WELDS SMOOTH AND POLISH AND TRIM SEALANTS FLUSH WITH DUCT SURFACES.
- PROTECT DUCTWORK DURING CONSTRUCTION AND CLEAN PRIOR TO SYSTEM OPERATION.
- ROUTE DUCTWORK TO AVOID PASSING THRU TRANSFORMER VAULTS OR ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS PER NEC REQUIREMENTS.
- SEAL DUCTS ACCORDING TO SMACNA SEAL CLASS NOTED IN SCHEDULE.
- SYSTEMS OPERATING AT 3" S.P. OR HIGHER AND ALL EXTERIOR DUCTWORK SHALL REQUIRE DUCT PRESSURE TESTING.
- WET DUCT SYSTEMS SHALL BE PITCHED FOR DRAINAGE. PROVIDE TRAPPED DRAIN AT SYSTEM LOW POINTS AND PIPE TO LOCAL DRAIN POINT.

- THE G.C. SHALL PAINT ALL EXPOSED DUCTWORK TO MATCH BASE MATERIAL COLORS.

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REGISTERED PROFESSIONAL ARCHITECT
EXPIRATION DATE: 12/31/2025

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DUCTWORK MATERIAL SCHEDULES

H0.2

PIPING SYSTEMS - HVAC

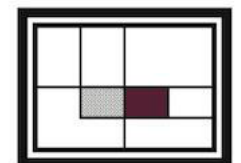
GENERAL NOTES:
QUALITY ASSURANCE:
 PIPING SHALL CONFORM TO OBC REQUIREMENTS.
 PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".
 WELDING PROCEDURES & TESTING SHALL COMPLY WITH ANSI STANDARD B31.1.0.
PRODUCTS
 REINFORCED FORGED WELDING OUTLETS EQUAL TO BONNET WELDOLET AND THREADOLET MAY BE USED WHERE BRANCH IS TWO SIZES SMALLER THAN THE MAIN.
 DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.
 PIPING WITHIN 2'-0" OF SMALL HEATING/COOLING UNITS MAY BE TYPE "C3" PIPING.
 MECHANICALLY FORMED TEES AND COUPLING (T-DRILL) ARE NOT PERMITTED
 MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURED RECOMMENDATIONS.
UNIONS:
 COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
 THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS
FLANGES:
 COPPER TUBING - CLASS 150 CAST COPPER ALLOY, SOLDERED
 STEEL PIPE - CLASS 150 SLIP-ON OR WELD NECK
 GASKETS - 1/16" THICK FULL FACE COMPRESSED SHEET GASKET SUITABLE FOR PRESSURE AND TEMPERATURE RANGES OF THE APPLICATION
 BULB WELLS FOR TEMPERATURE SENSING SPECIFIED IN THE CONTROLS AND INSTRUMENTATION SECTION SHALL BE FURNISHED BY THE CONTROL SUBCONTRACTOR AND INSTALLED BY THE PIPING CONTRACTOR. OTHER TYPES OF CONTROL DEVICES (DIFFERENTIAL PRESSURE SWITCHES, FLOW METERS, ETC.) SHALL ALSO BE INSTALLED BY THE PIPING CONTRACTOR. DEVICES, FITTINGS (TEES, WELDOLETS, THREADOLETS), LOCATIONS AND INSTALLATION DETAILS SHALL BE CLOSELY COORDINATED WITH THE CONTROLS SUBCONTRACTOR AND DEVICE MANUFACTURER'S INSTRUCTIONS.
 AUTOMATIC CONTROL VALVES SHALL BE FURNISHED BY THE CONTROLS SUBCONTRACTOR FOR INSTALLATION BY THE HVAC PIPING CONTRACTOR. FLARE FITTINGS FOR FLARE END VALVES SHALL BE PROVIDED BY THE HVAC PIPING CONTRACTOR.
EXECUTION
 PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.
 SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.
 PIPING SHALL BE PITCHED FOR DRAINAGE. THE LOW POINTS SHALL BE FITTED WITH A 3/4" BALL DRAIN VALVE WITH HOSE THREAD ADAPTOR.
 PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALL TO BE SAW CUT TO PASS NEW PIPING.
 PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.
 ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.
 CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.
 CLEAN INTERIOR PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.
TESTING
 PIPING SHALL BE AIR TESTED AT 50% HIGHER THAN MAXIMUM SYSTEM OPERATING PRESSURE FOR EIGHT (8) HOURS BEFORE FLUSHING
IDENTIFICATION & MARKING
 PLASTIC SNAP-ON PIPE MARKERS SHALL BE INSTALLED ON PIPING INDICATING SERVICE AND DIRECTION OF FLOW.

PIPING SYSTEM		TYPE	
COIL CONDENSATE DRAINAGE		C3	
REFRIGERANT PIPING - TUBE		C1	
REFRIGERANT PIPING - COIL		C1	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	BRAZED COPPER REFER TO SPECIFICATION FOR INFORMATION	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

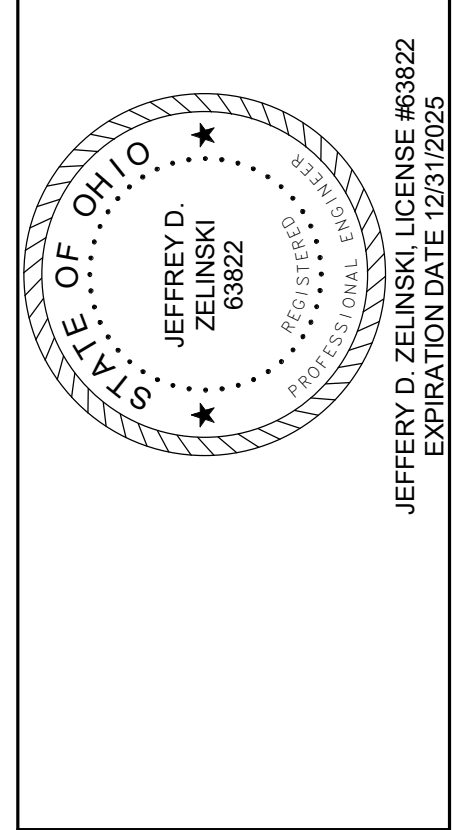
PIPE INSULATION SCHEDULE

QUALITY ASSURANCE
 PRODUCTS SHALL COMPLY WITH ASTM E84 FIRE, SMOKE RATINGS:
 - INDOORS - FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.
 - OUTDOORS - FLAME SPREAD RATING OF 75 OR LESS, SMOKE DEVELOPED RATING OF 150 OR LESS.
 GREEN GUARD INDOOR AIR QUALITY CERTIFIED.
 THICKNESSES SHALL COMPLY WITH MOST CURRENT VERSION OF ASHRAE 90.1.
PRODUCTS
 REQUIREMENTS ARE FOR BOTH SUPPLY & RETURN SYSTEMS.
MANUFACTURERS:
 FIBERGLASS - JOHNS MANVILLE, OWENS CORNING, KNAUF, MANSON INSULATION
 CALCIUM SILICATE - PABCO, CALSILITE, JOHNS MANVILLE (IG)
 FLEXIBLE ELASTOMERIC - AEROFLEX, ARMACELL, RUBATEX
 POLYISOCYANURATE - ITW
EXECUTION
 INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
 COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.
 INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING.
 VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT...

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
REFRIGERANT LIQUID	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
REFRIGERANT HOT GAS	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
REFRIGERANT SUCTION	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
COOLING COIL CONDENSATE	0.5"	F1	INTERIOR
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #ALL SERVICE JACKET	- KNAUF #1000" PIPE - JOHNS MANVILLE #MICRO-LOK HP	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F. 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE. PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS. K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.

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PIPING MATERIAL SCHEDULES

AIR DEVICE SCHEDULE

GENERAL NOTES
 AIR DEVICES BASED ON PRICE.
 EQUAL BY: REFER TO SPECIFICATION.
 MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.
 BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE. PC-12 FINISH SHALL HAVE COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY THE G.C.
 DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.
 VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1 & S1A	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	
S2 & S2A	12'X12'SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	1
S3	12'X12'SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION SURFACE MOUNTED	SPD	STEEL	SURFACE MOUNT FRAME INSULATED BACKPAN (STYLE 31)	1
S4	SPIRAL DUCT GRILLE DOUBLE DEFLECTION BLADES	SDGE	STEEL	BALANCING DAMPER AIR SCOUP	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R3	RETURN GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC)	1
R4	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC) SURFACE MOUNT FRAME	
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		
E2	EXHAUST GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1
E4	EXHAUST GRILLE DEVICE SIZE - REFER TO DRAWING 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	SURFACE MOUNT FRAME PC-12 BALANCING DAMPER	2
E5	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	SURFACE MOUNT FRAME	

NOTES:
 1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.
 2. DEVICE SURFACE MOUNTED TO END OF DUCTWORK.

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK
 REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS
 VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.
 REFER TO INSTALLATION DETAILS.

TAG	SERVICE	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL		DISCONNECT WITH FAN	DISCONNECT BY E.C.	VFD	ECM	DIRECT	BELT	ROOF CURB	BASEFLOOR	SUSPENDED, IN LINE	WALL	CEILING	UL 782 GREASE RATED	UL 864 SMOKE CONTROL	HIGH TEMP (ABOVE 200°F)	EXPLOSION PROOF	VIBRATION ISOLATION	INSULATION HOUSING	THERMAL CONTROL	SLOPING ROOF CURB	HINGED ROOF CURB	CURB EXTENSION	POWDER COAT FINISH	EPOXY INTERIOR FINISH	DDC CONNECTION	MANUAL/OFF SWITCH	DIAL SPEED CONTROLLER	HOA CONTROLLER	MOTORIZED DAMPER	GRAVITY DAMPER	NOTES			
					AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH																																	
EF-1	APPARATUS BAY	INLINE CENTRIFUGAL	SQ-18-M2-VG	-	5,875	1	3	208 / 3	●			●	●																											1, 5	
EF-2	APPARATUS BAY	INLINE CENTRIFUGAL	SQ-90-VG	-	400	0.25	1/10	120 / 1	●			●	●																												1
EF-3	STORM SHELTER	INLINE CENTRIFUGAL	SQ-97-VG	-	100	0.5	1/4	120 / 1	●			●	●																												1
EF-4	TOG	INLINE CENTRIFUGAL	SQ-90-VG	12.5" x 12.5"	300	0.5	1/6	120 / 1	●			●	●																												1, 6
EF-5	LIVING QUARTERS	INLINE CENTRIFUGAL	SQ-99-VG	12.5" x 12.5"	525	0.75	1/4	120 / 1	●			●	●																												1, 4
EF-6	HEAVY DECON	UPBLAST CENTRIFUGAL	CUE-080-VG	12.5" x 12.5"	225	0.5	1/10	120 / 1	●			●	●																											1, 4, 6	
EF-7	KITCHEN HOOD	UPBLAST CENTRIFUGAL	CUE-100HP-VG	15.5" x 15.5"	500	1.5	1/2	120 / 1	●			●	●																											1, 4	
IF-1	GEAR DRYER INTAKE	INLINE CENTRIFUGAL	SQ-95-VG	-	600	0.5	1/6	120 / 1	●			●	●																											1	
IH-1	SCBA	ROOF HOOD	CRSH-8	10.5" x 10.5"	250	-	-	-	●																															2, 3, 4	

NOTES:
 1. REFER TO HOA CONTROLLER DETAILS 1 & 2, H3.5 FOR INSTALLATION INFORMATION.
 2. MAXIMUM 500 FPM THROAT
 3. PROVIDE INSULATED, LOW VOLTAGE CONTROL DAMPER.
 4. FAN CURB COLOR SELECTED BY ARCHITECT.
 5. FAN SIZED FOR FUTURE EXPANSION.
 6. PROVIDE CONSTANT PRESSURE MONITOR.

KITCHEN HOOD - KH-1 SCHEDULE

FIRE READY RESIDENTIAL FAN HOOD.
 HOOD BY GREENHECK GRRS-W-36-T-G-O-N OR EQUAL BY DENLAR.
FEATURES:
 • 500 CFM EXHAUST RATE.
 • EXHAUST FAN POWERED THROUGH HOOD.
 • EXHAUST COLLAR
 • TOUCHSCREEN USER INTERFACE
 • RECESSED LED LIGHTS
 • 3/4" GAS SOLENOID VALVE
 • RANGE GAS SHUT OFF
 • REMOTE MANUAL PULL STATION
 • INTEGRATED FIRE SUPPRESSION SYSTEM
 • INTEGRATED SYSTEM CONTROLS (INTERLOCK WITH BAS)
 • FIRE PIPING, GREASE FILTER
 • DRY CONTACTS FOR EXTERNAL DOAS UNIT CONTROL.

HOOD TO INCLUDE TEMPERATURE SENSOR WHICH WILL AUTOMATICALLY START EF-7 (REMOTE KITCHEN EF) WHEN TEMPERATURE EXCEEDS 125° (ADJ.)

HOOD POWERS EXHAUST FAN.
 120V/1PH/8MCA/15MOCP

REFER TO DETAIL 3, SHEET H3.4 FOR INSTALLATION DIAGRAM.

RADIANT HEATER SCHEDULE - GAS

GENERAL NOTES
 BASIS OF DESIGN: RE-VERBER-RAY
 EQUAL BY: REFER TO SPECIFICATION

UNIT NO.	MODEL #	SERVICE	MOUNTING	MODULATING RANGE (MBH)	AMPS	VOLT/PH	DIMENSIONS			WEIGHT (LBS)	MOUNTING HEIGHT	NOTES
							L (IN.)	D (IN.)	H (IN.)			
RH-1	MP3-25-80	APPARATUS BAY	CEILING SUSPENDED	65 - 80	5	120 / 1	25" - 5"			145	16'-6"	1, 2, 3
RH-2	MP3-25-80	APPARATUS BAY	CEILING SUSPENDED	65 - 80	5	120 / 1	25" - 5"			145	16'-6"	1, 3
RH-3	MP3-50-150	APPARATUS BAY	CEILING SUSPENDED	110 - 150	5	120 / 1	50" - 9"			235	16'-6"	1, 3
RH-4	MP3-50-150	APPARATUS BAY	CEILING SUSPENDED	110 - 150	5	120 / 1	50" - 9"			235	16'-6"	1, 3

NOTES:
 1. PROVIDED WITH MICROPROCESSOR BASED THERMOSTAT, MODEL #TH-PC-M.
 2. PROVIDE SIDE SHIELD TO PROJECT HEAT AWAY FROM WALL.

GAS FIRED UNIT HEATER SCHEDULE

GENERAL NOTES
 BASIS OF DESIGN: MODINE

UNIT NO.	MODEL #	MOUNTING	(MBH) INPUT/OUTPUT	CFM	AMPS	VOLT/PH	DIMENSIONS			WEIGHT	NOTES
							L (IN.)	D (IN.)	H (IN.)		
GUH-1	PTC-215	CEILING SUSPENDED	215 / 202	3,865	9.15	120 / 1	42.5	22	31	265	1, 2, 3

NOTES:
 1. CONDENSATE NEUTRALIZING KIT.
 2. STANDARD CONVENIENCE PACKAGE WITH DISCONNECT SWITCH, CONDENSATE PUMP, AND LOW VOLTAGE THERMOSTAT CONTACTS.
 3. STAINLESS STEEL HEAT EXCHANGER.

ELECTRIC UNIT HEATER SCHEDULE

GENERAL NOTES
 BASIS OF DESIGN: RAYWALL

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING	KW	MBH	AIR FLOW (CFM)	DIMENSIONS			VOLTAGE / PHASE	NOTES
							L (IN.)	D (IN.)	H (IN.)		
EUH-1	MIDSIZED FAN FORCED WALL HEATER	RAYWALL 305 SERIES #E305T2DWB	WALL RECESSED	1.5	5	100	9-1/4"	3-5/8"	12-1/8"	120 / 1	2, 3
EUH-2	VERTICAL MOUNTED FAN FORCED UNIT HEATER	RAYWALL 5100 SERIES #F2F5105N	WALL HUNG	5	17.1	400	14-15/32"	6-1/2"	17-3/4"	208 / 3	1, 2, 3
EUH-3	FAN FORCED WALL HEATER	RAYWALL AFA # AFA840D	WALL RECESSED	4	13.6	175	14-1/8"	4"	19-1/2"	208 / 3	2, 3

NOTES:
 1. WALL MOUNTING BRACKET #A5105.
 2. DISCONNECT SWITCH WITH UNIT.
 3. INTEGRAL THERMOSTAT.

ELECTRIC DUCT REHEAT COIL SCHEDULE

GENERAL NOTES
 BASIS OF DESIGN: RAYWALL

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	DUCT WIDTH	DUCT HEIGHT	EAT (°F)	LAT (°F)	KW	AIR FLOW (CFM)	VOLT / PH	DIMENSIONS			WEIGHT (LBS)	NOTES
										L (IN.)	D (IN.)	H (IN.)		
DH-1	DUCT MOUNTED HEATER	RAYWALL # 8PD10-1810-1-3	18"	10"	0	50	15	600	208 / 3	11-1/2"	9-1/8"	11"	27	1, 2

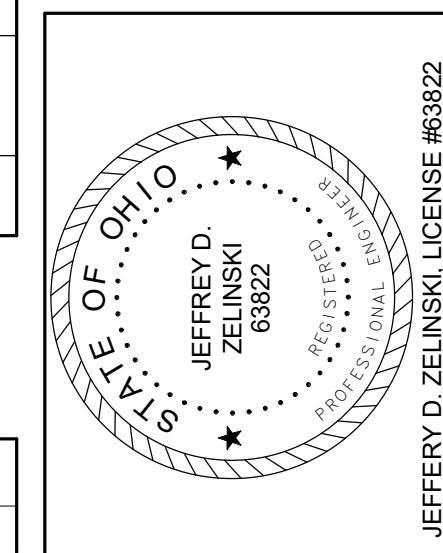
NOTES:
 1. INTEGRAL DISCONNECT SWITCH.
 2. UNIT MOUNTED THERMOSTAT AND DUCT PROBE.

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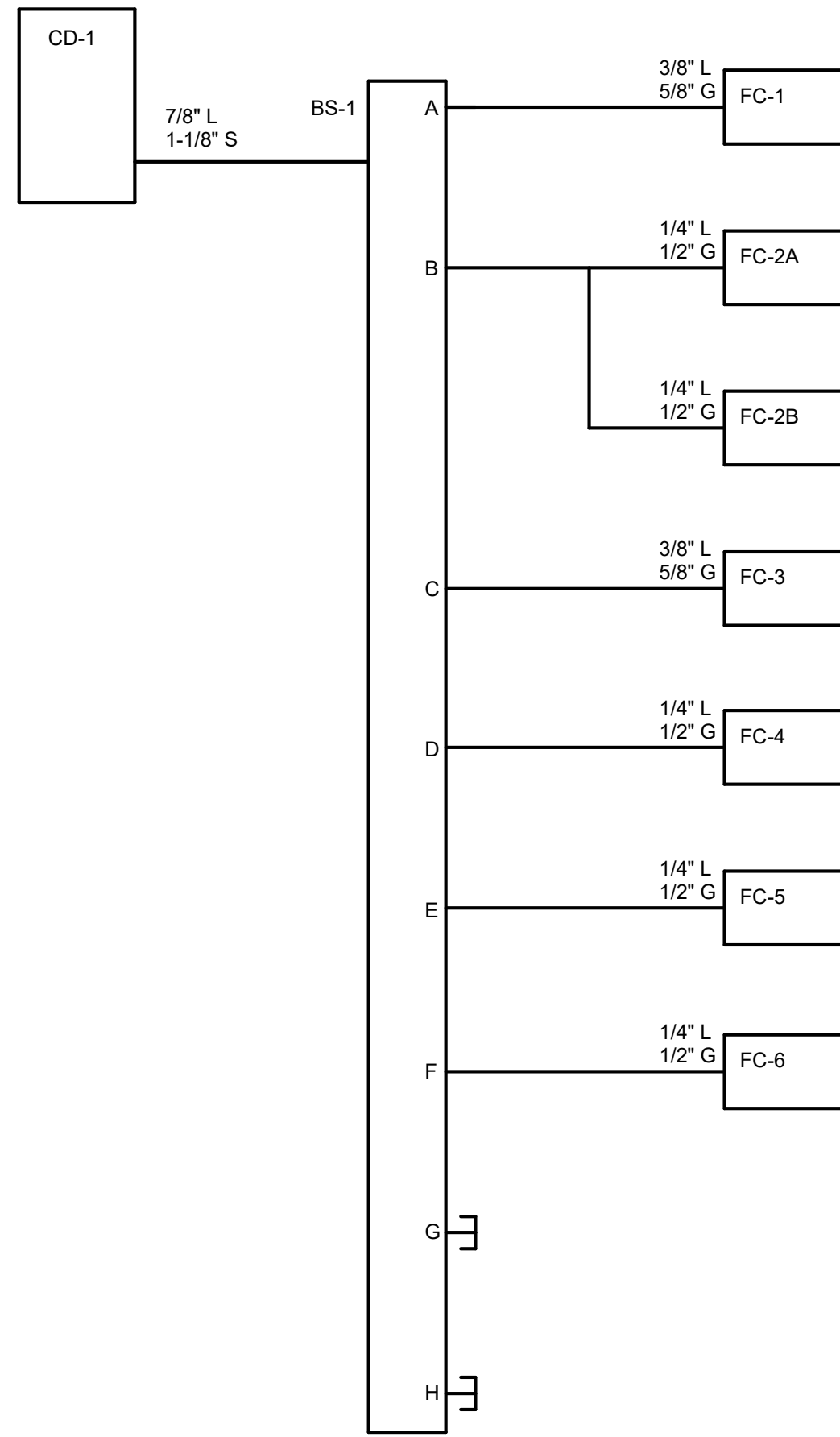
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EQUIPMENT SCHEDULES

H0.4



VRF SYSTEM - PIPING DIAGRAM

FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
 - COOLING CAPACITIES BASED ON 90°F DB / 74°F WB OUTDOOR AIR TEMP., HEATING BASED UPON -1°F OUTDOOR AIR TEMP.

UNIT	DESCRIPTION	MOUNTING	CONDENSING UNIT	BRANCH SELECTOR	CFM	E.S.P.	COOLING CAPACITY			HEATING CAPACITY		REFRIGERANT PIPING		ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES	
							SENS. MBH	TOTAL MBH	EAT (DB/WB)	LAT (DB/WB)	MBH	EAT / LAT	GAS	LIQUID	V/PH	MCA	MOC	WIDTH [IN]	DEPTH [IN]				HEIGHT [IN]
FC-1	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	735	0.8	17	21.6	75 / 62.4	52.6 / 52	26	70 / 104	5/8	3/8	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFP024AM141A	1, 3
FC-2A	CEILING CASSETTE	WALL	CD-1	BS-1	297	-	8	10.9	75 / 62.4	52 / 52	12.9	70 / 107	1/2	1/4	208 / 1	0.2	15	30 - 7/16	9 - 11/32	11 - 25/32	25	TPKFPY012NLMU-E	1, 2, 3, 4, 5
FC-2B	CEILING CASSETTE	WALL	CD-1	BS-1	297	-	8	10.9	75 / 62.4	52 / 52	12.9	70 / 107	1/2	1/4	208 / 1	0.2	15	30 - 7/16	9 - 11/32	11 - 25/32	25	TPKFPY012NLMU-E	1, 2, 3, 4, 5
FC-3	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	735	0.8	17	21.6	75 / 62.4	52.6 / 52	26	70 / 104	5/8	3/8	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFP024AM141A	1, 3
FC-4	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	585	0.8	13.5	16	75 / 62.4	52.7 / 52	19	70 / 101	1/2	1/4	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFP018AM141A	1, 3
FC-5	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	400	0.8	9	10.8	75 / 62.4	52.2 / 52	13	70 / 101	1/2	1/4	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFP018AM141A	1, 3
FC-6	CEILING CASSETTE	CEILING	CD-1	BS-1	335	-	8	10.8	75 / 62.4	52 / 52	13	70 / 101	1/2	1/4	208 / 1	0.3	15	22 - 7/16	22 - 7/16	8 - 3/16	36	TPFPY012FM140A	1, 2, 3

- NOTES:
 1. PROVIDE FLUSH MOUNT REMOTE THERMOSTAT.
 2. PROVIDE CONDENSATE PUMP.
 3. DISCONNECT WITH UNIT.
 4. PROVIDE WHITE, WALL COVER RACEWAY FOR REFRIGERANT AND CONDENSATE PIPING.
 5. MOUNT 9'-0" A.F.F.

CONDENSING UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
 EQUAL BY: REFER TO SPECIFICATION
 - COOLING CAPACITIES BASED ON 90°F DB / 74°F WB OUTDOOR AIR TEMP., HEATING BASED UPON -1°F OUTDOOR AIR TEMP.

UNIT	BRANCH SELECTOR SERVED	AREA SERVED	COOLING CAPACITY	HEATING CAPACITY	REFRIGERANT PIPING			MAX PIPING LENGTH FROM BS-1 [FT]	REFRIGERANT		ELECTRICAL			DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
			MBH @ 91°F	MBH @ -1°F	GAS	LIQUID	H/L PRESSURE	TYPE	ADDITIONAL CHARGE (LBS)	V/PH	MCA	MOC	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)				
CD-1	BS-1	LIVING QUARTERS	131	149	1 - 1/8	7/8	NOTE 1	100	R-410a	36.2	208 / 3	54 / 54	90 / 90	98 - 1/2	29 - 3/8	71 - 5/8	1218	TURYH1443BN40AN	1, 2, 3, 4, 5

- NOTES:
 1. BASIS OF DESIGN UNIT DOES NOT REQUIRE A HOT GAS REHEAT PIPE FROM THE OUTDOOR UNIT TO BS-1. THE NON-BASIS OF DESIGN SYSTEM MAY REQUIRE THIS PIPE; HC SHALL PROVIDE ALL REQUIRED PIPING COMPONENTS IF A NON-BASIS OF DESIGN UNIT IS PROVIDED.
 2. UNIT REQUIRES 2 POWER CONNECTIONS AND TWINNING KIT.
 3. PROVIDE HAIL GUARD.
 4. ADDITIONAL REFRIGERANT CHARGE BY H.C.
 5. 12" SUPER STAND PROVIDED WITH UNIT.

BRANCH SELECTOR BOX SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
 EQUAL BY: REFER TO SPECIFICATION

UNIT	CONDENSING UNIT SERVED	AREA SERVED	# OF CIRCUITS	ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
				V/PH	MCA	MOC	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)			
BS-1	CD-1	LIVING QUARTERS	8	208 / 1	0.8	15	35 - 7/8	21 - 1/2	9-7/8	106	TCMBM0108JA11N4	

AIR TERMINAL UNITS SCHEDULE

GENERAL NOTES
 UNITS ARE VARIABLE AIR VOLUME
 CV - CONSTANT VOLUME
 VV - VARIABLE VOLUME
 DESIGN BASIS- PRICE MODLE SDV
 UNITS WITH REHEAT SHALL HAVE SCR CONTROL & DISCONNECT SWITCH
 HEATING CONDITIONS BASED ON 55 DEG F. EAT, 95 DEG F. LAT.
 COIL PRESSURE DROP: 0.5" W.G.

UNIT NO.	INLET SIZE	TYPE	MIN. AIRFLOW [CFM]	MAX. AIRFLOW [CFM]	KW	VOLTAGE / PHASE	SEE NOTES
1-1	5	CV	225	225	2.8	208 / 3	
1-2	5	CV	85	85	1.1	208 / 3	
1-3	7	VV	0	500	6.3	208 / 3	1
1-4	10	CV	825	825	-	-	
1-5	6	CV	300	300	3.8	208 / 3	

- NOTES:
 1. UNIT SERVES KITCHEN HOOD. REFER TO CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.

DOAS UNIT SCHEDULE

UNIT TAG	DOAS-1
BASIS OF DESIGN	MITSUBISHI
SERVICE	LIVING QUARTERS
DESCRIPTION	PACKAGED DOAS UNIT
MOUNTING	GROUND
EVAPORATOR FAN	
AIRFLOW (CFM)	1,935
ESP. (" W.G.)	1.5"
FAN TYPE	DIRECT DRIVE
VARIABLE FREQUENCY DRIVE	YES
DISCHARGE LOCATION	SIDE
FILTER	
PRE-FILTER	2" MERV 8
FINAL FILTER	4" MERV 13
COOLING - BASED ON 90 / 74 (DB/WB) O.A.	
TOTAL (MBH)	131
SENSIBLE (MBH)	76
ENTER. AIR (DB/WB)	90 / 74
SUPPLY AIR (DB/WB)	54.4 / 54.3
ISMRE	8.4
HOT GAS REHEAT	
TOTAL (MBH)	67
ENTER. AIR (DB/WB)	54.4 / 54.3
LEAV. AIR (DB)	86.2
HEATING - REQ. NATURAL GAS INPUT PRESSURE: 4.5" W.C. MIN./14" W.C. MAX. -BASED ON 0°F O.A.	
GAS INPUT (MBH)	200
OUTPUT (MBH)	162
ENTER. AIR DB	0
SUPPLY AIR (DB)	77.5
ELECTRIC	
MCA	53.8
MOC	60
VOLTAGE/HZ/PHASE	208 / 3
PHYSICAL UNIT DATA	
LENGTH (IN.)	98.6"
WIDTH (IN.)	86.4"
HEIGHT - NOT INCLUDING CURB (IN.)	69.5"
MAX UNIT OP. WEIGHT (LBS)	2,172
UNIT OPTIONS	
ECONOMIZER HOOD	
MIN. O.A. HOOD	•
CONSTANT AIR VOLUME	
VARIABLE AIR VOLUME	•
SINGLE SPEED / STAGED COMPRESSORS	
DIGITAL SCROLL COMPRESSORS	
INVERTER DUTY COMPRESSOR	•
STAINLESS STEEL HEAT EXCHANGER	•
RETURN AIR SMOKE DETECTOR	
CO2 SENSOR D.V.C.	
14" ROOF CURB ADAPTER	
POWERED RELIEF FAN	
BAROMETRIC GRAVITY RELIEF DAMPER	
DISCHARGE AIR TEMP. CONTROL	•

- NOTES:
 1. SEE ROOFTOP UNIT MOUNTING DETAIL, DETAIL 1, SHEET H3.6.
 2. COOLING COIL CONDENSATE TRAP PER DETAIL 4, SHEET H3.1
 3. REFER TO H4.1 FOR UNIT CONTROLS.

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 REGISTERED PROFESSIONAL ENGINEER
 EXPIRATION DATE: 12/31/2025

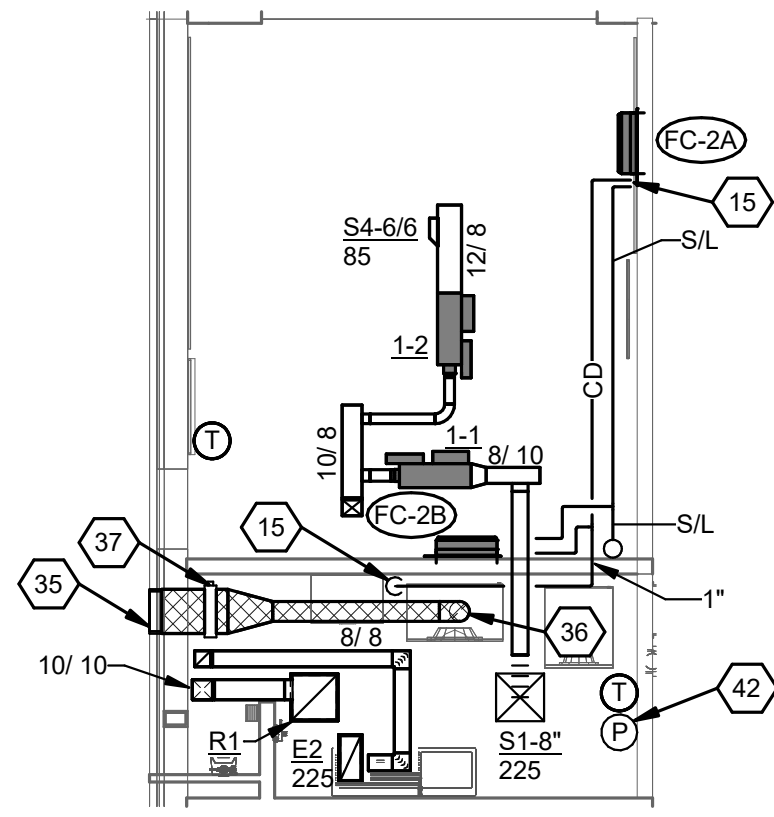
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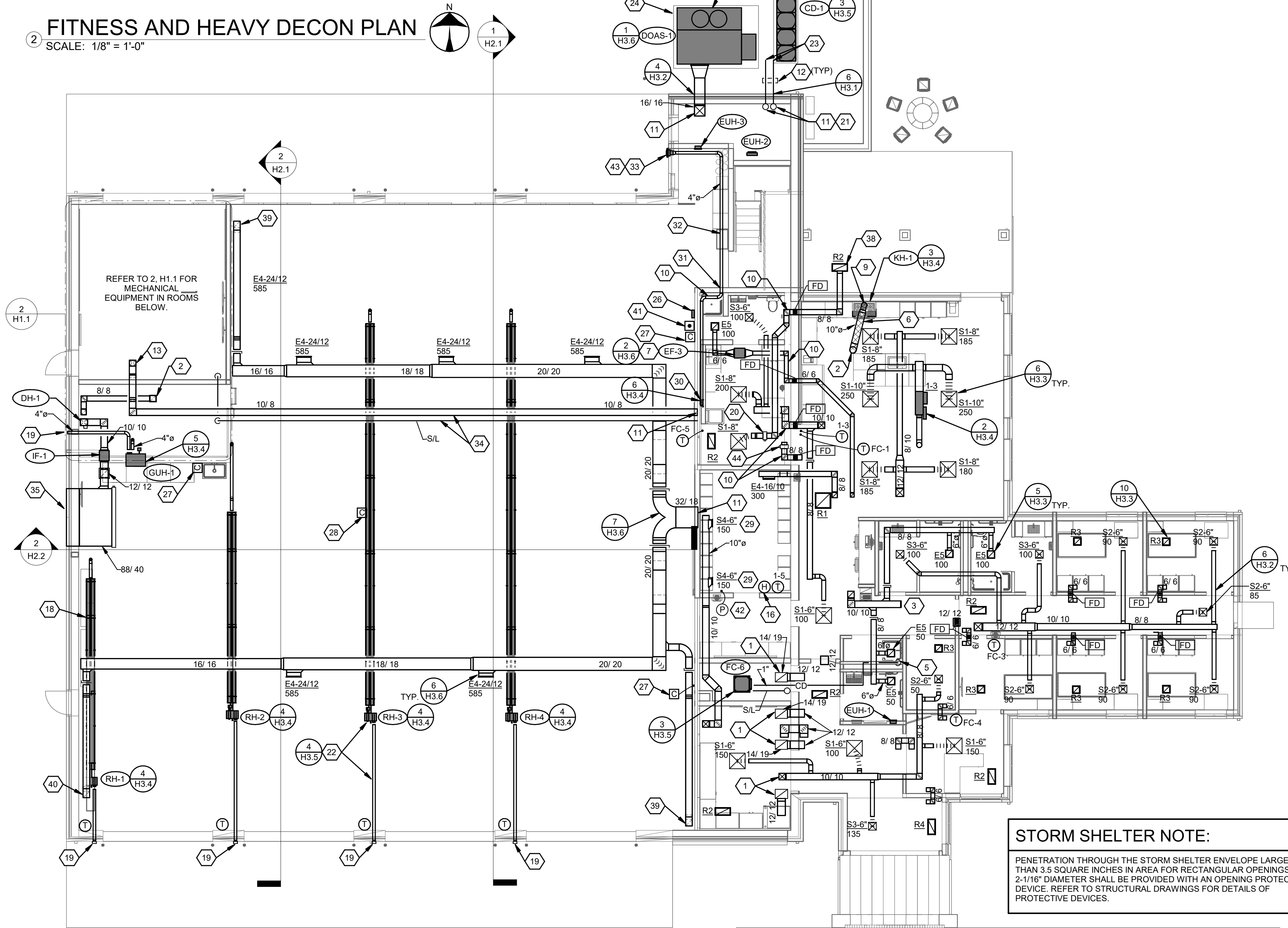
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VRF SYSTEM SCHEDULE

H0.5



2 FITNESS AND HEAVY DECON PLAN
SCALE: 1/8" = 1'-0"



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

STORM SHELTER NOTE:
PENETRATION THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3.5 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" DIAMETER SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PROTECTIVE DEVICES.

CONSTRUCTION NOTES

1. DUCT UP TO MEZZANINE.
2. DUCT UP TO EQUIPMENT ON ROOF.
3. CAP FOR FUTURE EXTENSION.
4. FIRE DAMPER NOT REQUIRED PER OBC.
5. ROUTE CONDENSATE DRAIN TO MOP SINK. TERMINATE DRAIN IN MOP SINK.
6. STAINLESS STEEL EXHAUST DUCT. PROVIDE ACCESS DOOR IN DUCT FOR CLEANING. SLOPE HORIZONTAL RUN BACK TOWARDS HOOD 1/4" PER 1'.
7. STORM SHELTER EXHAUST FAN POWERED THROUGH LIGHT UPS. FAN SHALL RUN FOR A MINIMUM OF 2 HOURS ON UPS POWER.
8. DUCT OPEN TO PLENUM.
9. COORDINATE DUCTWORK CONNECTION TO HOOD THROUGH CABINETS ABOVE HOOD. CAREFULLY COORDINATE ALL DUCT PENETRATIONS.
10. DUCT OFFSETS INSIDE OF STORM SHELTER. COORDINATE OFFSET LENGTH WITH PROTECTIVE SHROUD PROVIDED BY G.C. REFER TO STRUCTURAL DRAWINGS FOR SHROUD INSTALLATION INFORMATION.
11. REFER TO H1.2 FOR CONTINUATION.
12. SUPPORT REFRIGERANT PIPING ON GRADE AS REQUIRED.
13. DUCT DROPS INTO FITNESS ROOM.
14. PROVIDE WALL COVER FOR PIPING.
15. TERMINATE CONDENSATE DRAIN AT FLOOR DRAIN IN HEAVY DECON ROOM.
16. DOAS-1 HUMIDISTAT.
17. DUCT MOUNTED DIFFERENTIAL PRESSURE SENSOR.
18. PROVIDE SIDE SHIELD ON RADIANT HEATER TO DEFLECT HEAT AWAY FROM WALL.
19. INTAKE HOOD. PAINT TO MATCH EXTERIOR WALL COLOR.
20. PROVIDE AUTOMATIC CONTROL DAMPER. DAMPER SHALL BE INSULATED AND HAVE BLADE SEALS. EQUAL TO GREENHECK #ICD-45. PROVIDE TWO POSITION, 120V ACTUATOR; POWERED CLOSED, SPRING RETURN, FAIL OPEN.
21. COORDINATE PIPING RUN SUCH THAT PIPE IS NOT OVERHEAD OF ELECTRICAL GEAR. PER NFPA 70, PIPING SHALL NOT BE RUN OVERHEAD OF ELECTRICAL GEAR. MAINTAIN ALL REQUIRED CLEARANCES.
22. REFER TO DETAIL FOR GENERAL APPARATUS BAY EQUIPMENT INSTALLATION COORDINATION.
23. CONNECT REFRIGERANT PIPING TO CONDENSING UNIT.
24. 4" CONCRETE EQUIPMENT PAD BY G.C. H.C. SHALL COORDINATE FINAL EQUIPMENT SIZE WITH G.C. PRIOR TO PAD INSTALLATION.
25. PROVIDE COOLING COIL CONDENSATE TRAP FOR DOAS-1. PROVIDE CONCRETE SPLASH BLOCK BELOW CONDENSATE DRAIN OUTLET.
26. CO₂ DETECTION SYSTEM CENTRAL CONTROLLER. MOUNT 4" A.F.F.
27. CO₂ DETECTOR. MOUNT 4" A.F.F.
28. CO₂ DETECTOR. MOUNT TO ROOF GIRDER TRUSS.
29. INSTALL AIR DEVICE AT 45° DOWN FROM HORIZONTAL SUCH THAT AIR BLOWS DOWN INTO SPACE.
30. PROVIDE STAINLESS STEEL ESCUTCHEON AT DUCT PENETRATION THROUGH CEILING.
31. FIRE DAMPER NOT PERMITTED IN DRYER DUCT PER OMC 504.2. SEAL PENETRATION WITH FIRE STOPPING SYSTEM.
32. MOUNT DUCT TO SIDEWALL.
33. EXTERIOR DRYER OUTLET. MOUNT 10'-6" MIN. A.F.F.
34. REFRIGERANT PIPE AND DUCTWORK RUN TIGHT TO DECK.
35. LOUVER PROVIDED BY G.C., CONNECT DUCTWORK TO DUCT FLANGE.
36. STAINLESS STEEL EXHAUST DUCT CONNECTION TO GEAR DRYER. PROVIDE STAINLESS STEEL ESCUTCHEON AROUND DUCT CEILING PENETRATION. GEAR DRYER FURNISHED BY OWNER.
37. LOW VOLTAGE AUTOMATIC CONTROL DAMPER PROVIDED BY T.C., REFER TO GEAR DRYER FAN CONTROL DIAGRAM.
38. MOUNT GRILLE FLUSH IN METAL CEILING OF PATIO CANOPY. REFER TO ARCHITECTS EXTERIOR WALL PENETRATION DETAILS. PROVIDE GRILLE WITH PRIME COAT OF PAINT. FINAL PAINTING SHALL BE BY THE G.C. TO MATCH EXTERIOR COLOR.
39. LOW EXHAUST INTAKE. TERMINATE DUCT 1" A.F.F. OPEN TO APPARATUS BAY. BALANCE DAMPER TO 365 CFM.
40. LOW EXHAUST INTAKE. COORDINATE TERMINATION HEIGHT WITH WATER SERVICE. TERMINATE DUCT OPEN TO APPARATUS BAY. BALANCE DAMPER TO 365 CFM.
41. EF-1 MANUAL PUSHBUTTON.
42. DIFFERENTIAL PRESSURE MONITOR PROVIDED WITH RESPECTIVE EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION. MOUNT UNIT 54" A.F.F.
43. JENCO FAN #SWF-150X. PROVIDE WITH PRESSURE TRANSDUCER AND CURRENT SENSOR ACCESSORIES. PAINT FAN TO MATCH EXTERIOR WALL COLOR, COORDINATE WITH G.C.
44. PROVIDE AUTOMATIC CONTROL DAMPER. DAMPER SHALL BE INSULATED AND HAVE BLADE SEALS. EQUAL TO GREENHECK #ICD-45. PROVIDE TWO POSITION, 120V ACTUATOR, POWERED OPEN, SPRING RETURN, FAIL CLOSED.



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

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PLAN APPROVAL / BIDDING

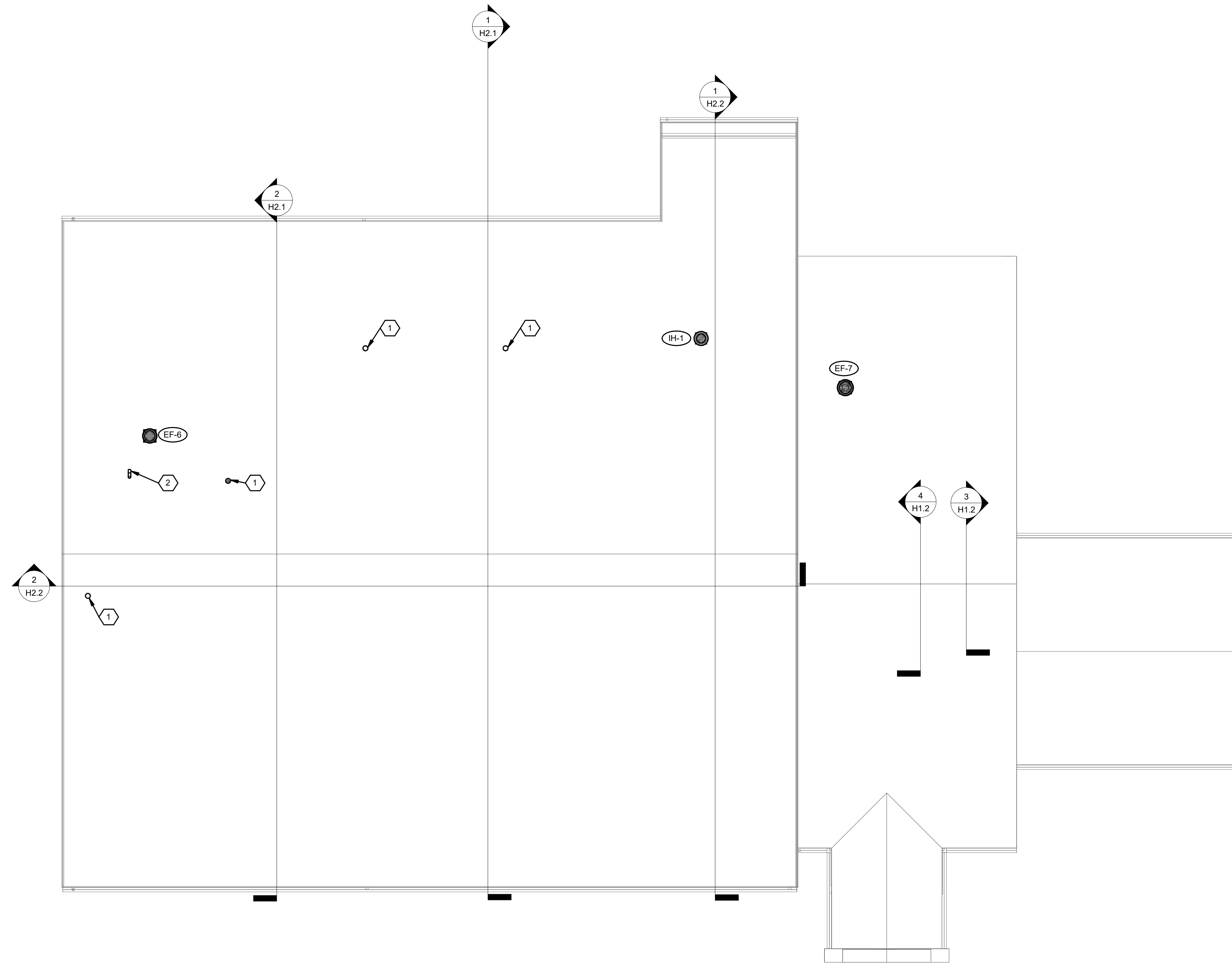
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1ST FLOOR PLAN

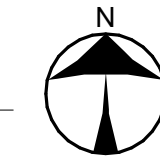
H1.1

CONSTRUCTION NOTES

1. RADIANT HEATER FLUE.
2. GAS FIRED UNIT HEATER FLUE.



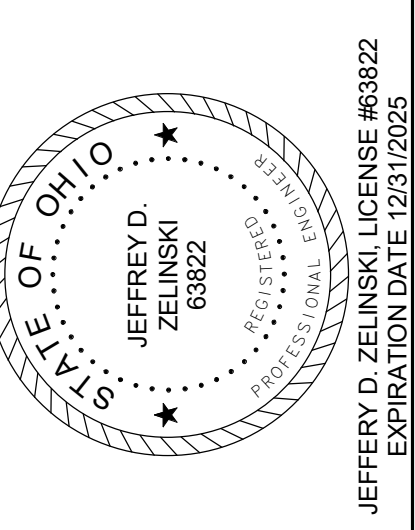
ROOF PLAN
SCALE: 1/8" = 1'-0"



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PROJECT # 23015

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NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
2324 CAMPBELL ROAD
SIDNEY, OHIO 45365

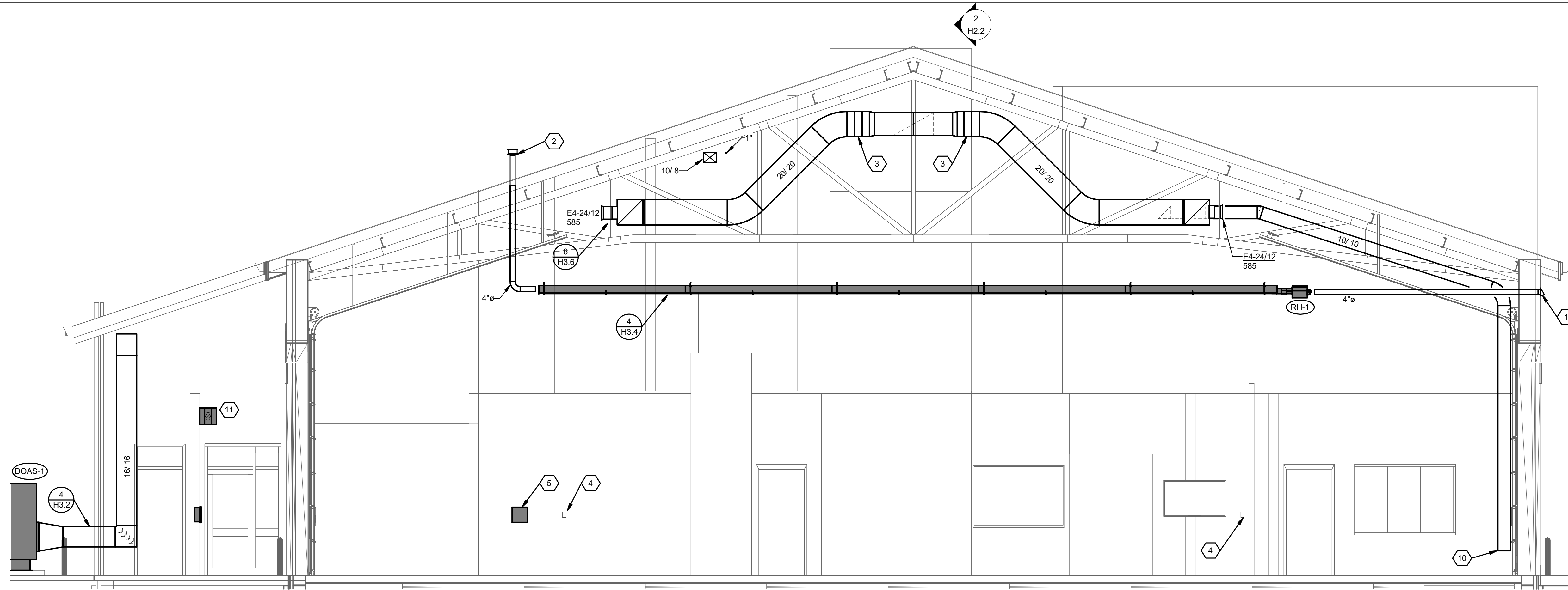


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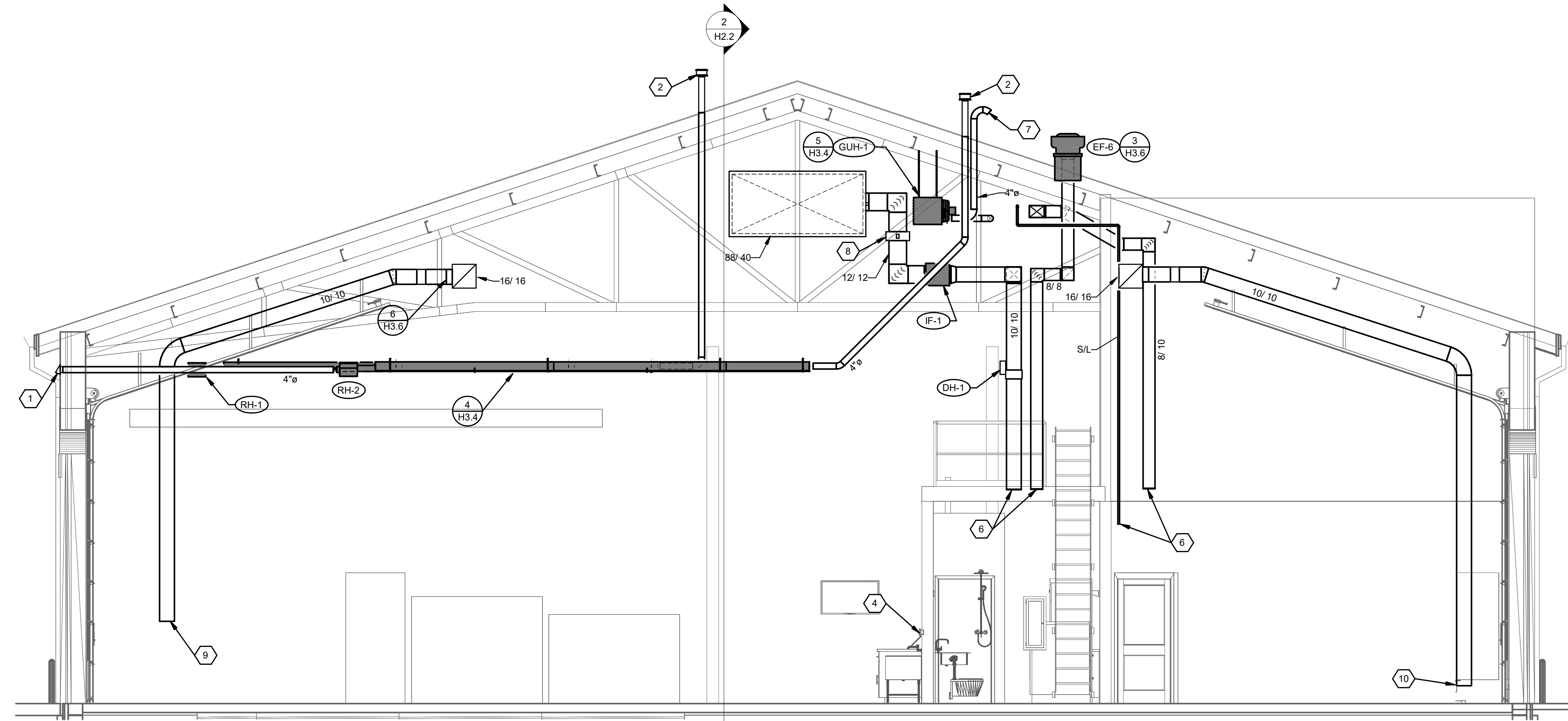
ROOF PLAN

H1.3



1 APPARATUS BAY SECTION 1
SCALE: 1/4" = 1'-0"

- # CONSTRUCTION NOTES
1. INTAKE HOOD. PAINT TO MATCH EXTERIOR WALL COLOR.
 2. TYPE 'B' ROOF VENT.
 3. MANUAL BALANCING DAMPER.
 4. CO/NO₂ DETECTOR.
 5. CO/NO₂ DETECTION SYSTEM CONTROLLER.
 6. DUCT AND PIPING DOWN INTO HEAVY DECON FITNESS ROOM.
 7. GAS FIRED UNIT HEATER FLUE.
 8. CONTROL DAMPER PROVIDED WITH FAN.
 9. LOW EXHAUST INTAKE. COORDINATE TERMINATION HEIGHT WITH WATER SERVICE. TERMINATE DUCT OPEN TO APPARATUS BAY. BALANCE DAMPER TO 585 CFM.
 10. LOW EXHAUST INTAKE. TERMINATE DUCT 1' A.F.F. OPEN TO APPARATUS BAY. BALANCE TO 585 CFM.
 11. DRYER BOOSTER FAN. REFER TO DETAIL 6, H3.4.



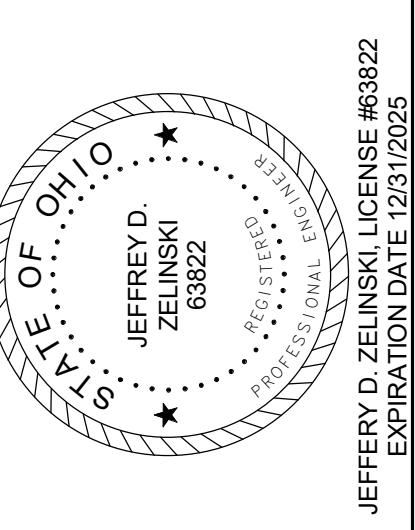
2 APPARATUS BAY SECTION 2
SCALE: 1/4" = 1'-0"



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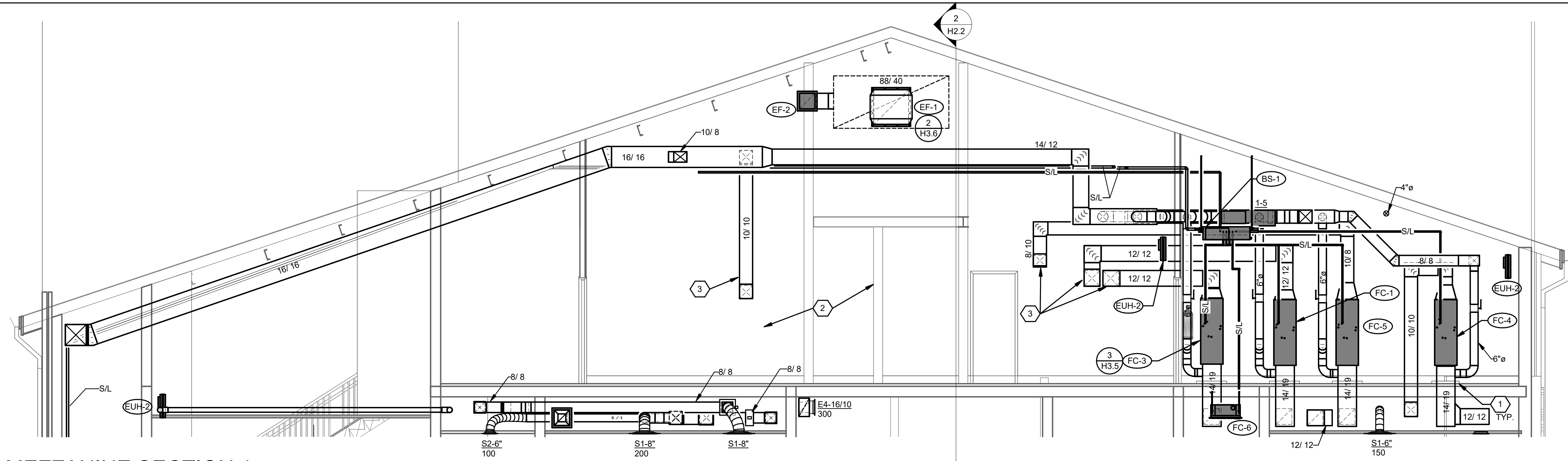
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NEW CONSTRUCTION OF
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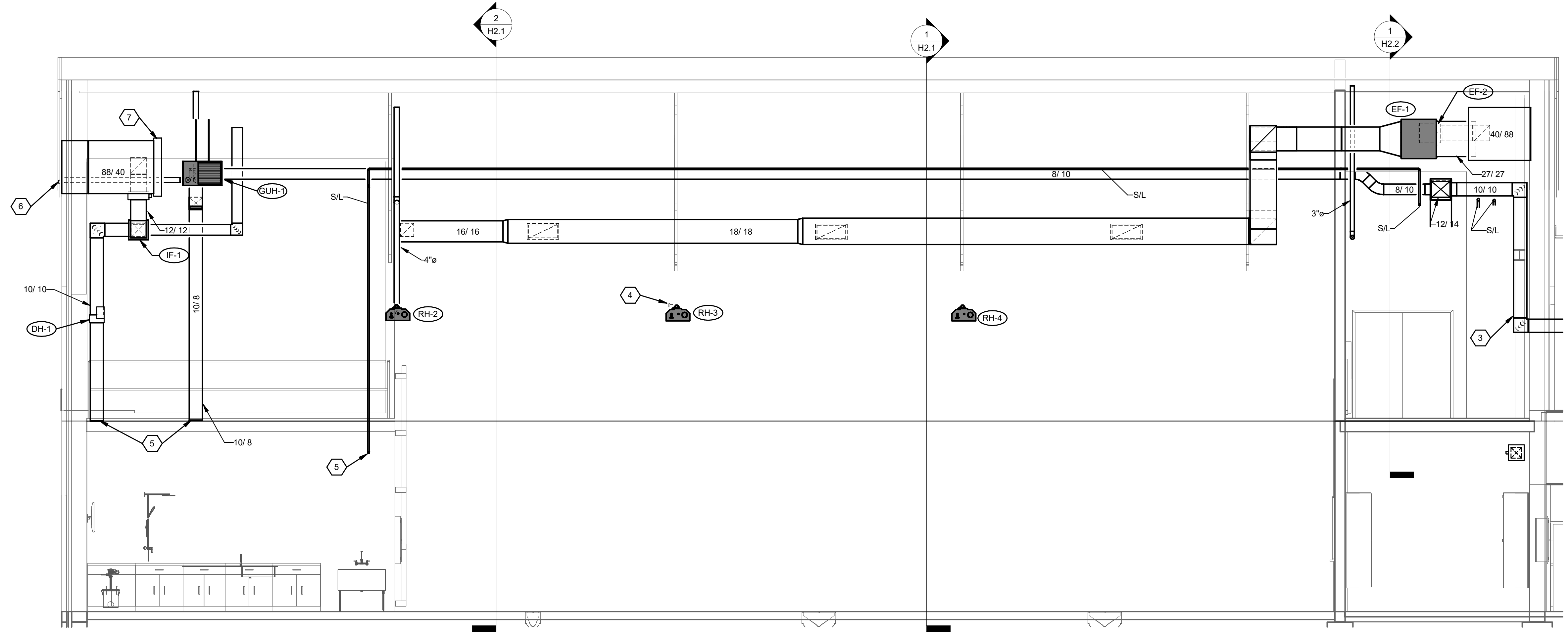
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SECTIONS	
H2.1	



1 MEZZANINE SECTION 1

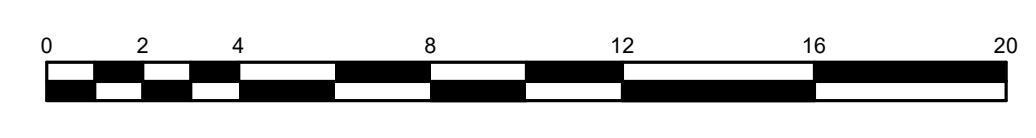
SCALE: 1/4" = 1'-0"

- # CONSTRUCTION NOTES
1. 4" CONCRETE EQUIPMENT PAD BY H.C.
 2. MAINTAIN 14" OVERHEAD CLEARANCE ON MEZZANINE LEVEL.
 3. DUCTS RUN TIGHT TO WALL.
 4. CO/NO₂ SENSOR. MOUNT TO BOTTOM OF TRUSS.
 5. DUCT & PIPING DOWN INTO HEAVY DECON AND FITNESS ROOM.
 6. INTAKE HOOD.
 7. MOTORIZED CONTROL DAMPER.



2 APPARATUS BAY SECTION 3

SCALE: 1/4" = 1'-0"

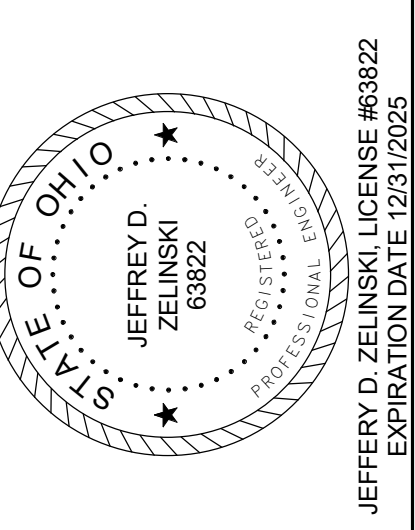


SCALE: 1/4" = 1'-0"

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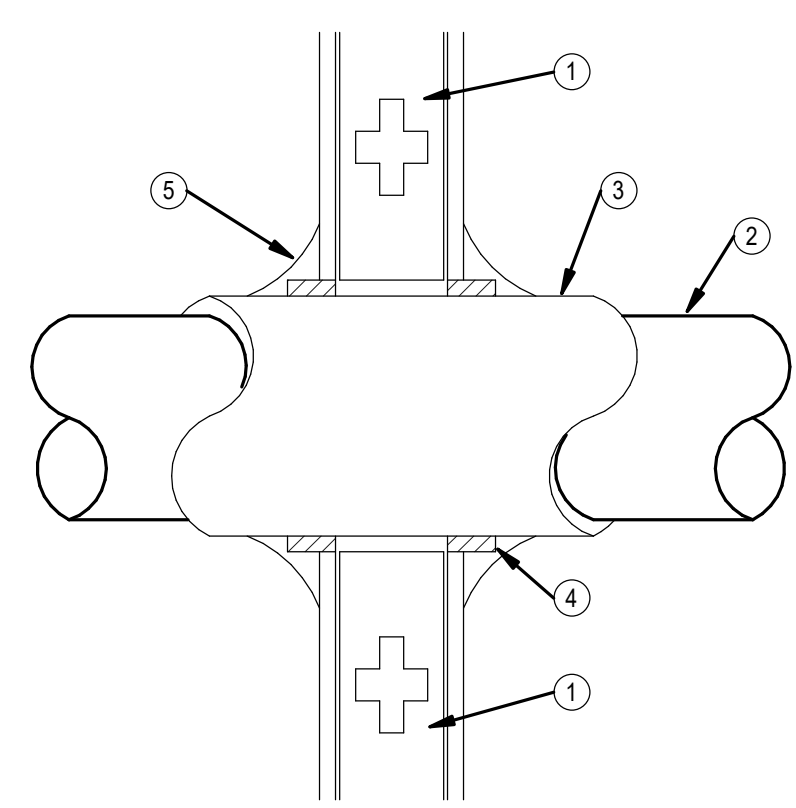
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NEW CONSTRUCTION OF
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SECTIONS	
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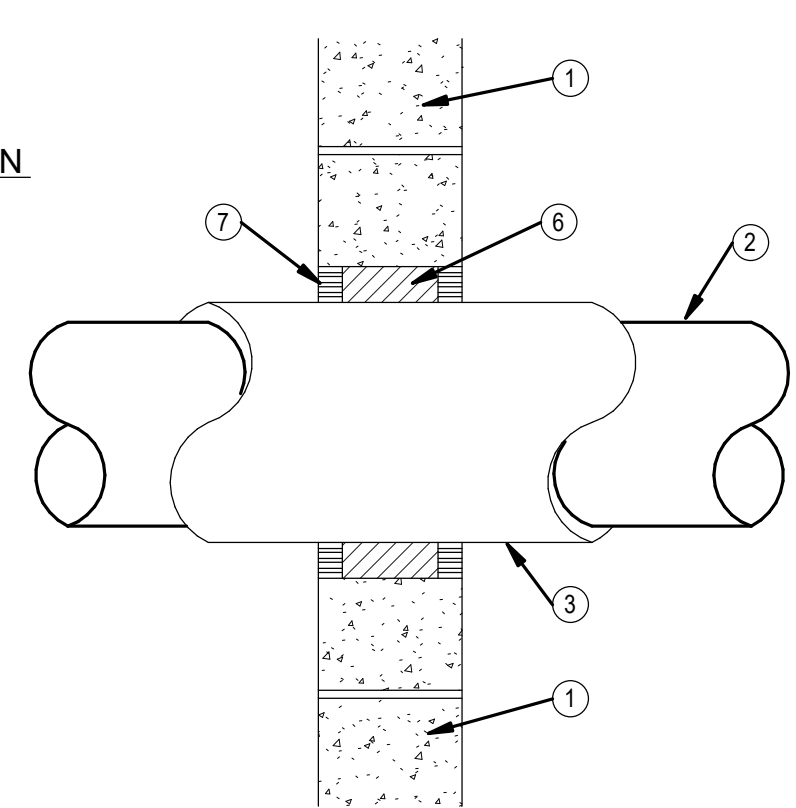


GYPSUM CONSTRUCTION
ALL PIPE SIZES

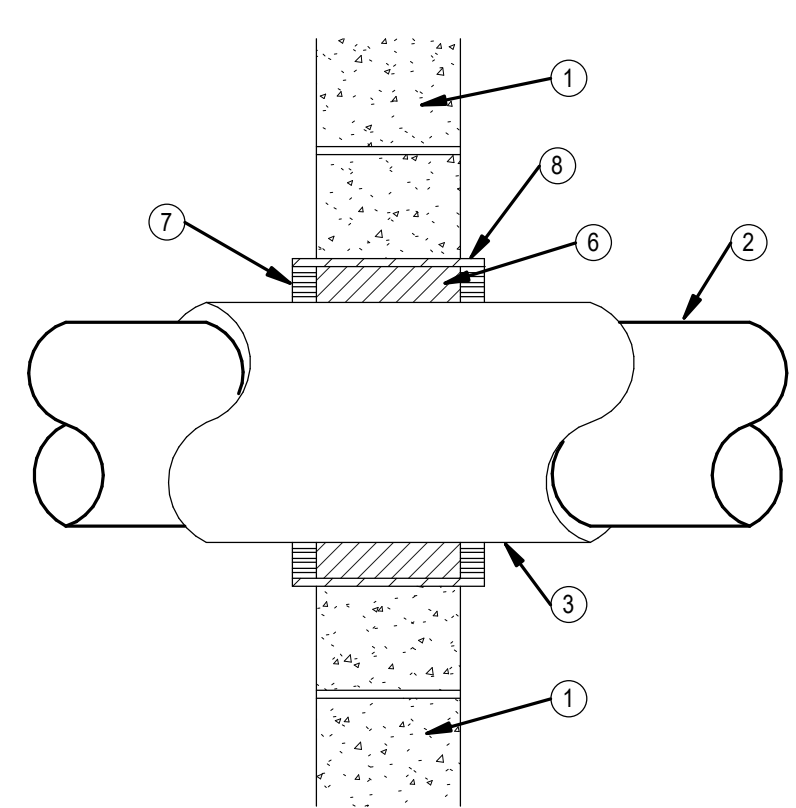
FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS OR HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

- 1 RATED WALL ASSEMBLY.
- 2 METALLIC PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- 4 APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- 5 APPROVED FIRESTOPPING CAULK OR SEALANT.
- 6 PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- 7 APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- 8 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

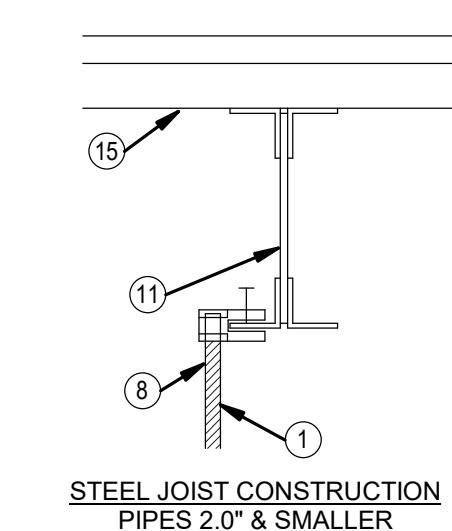


CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

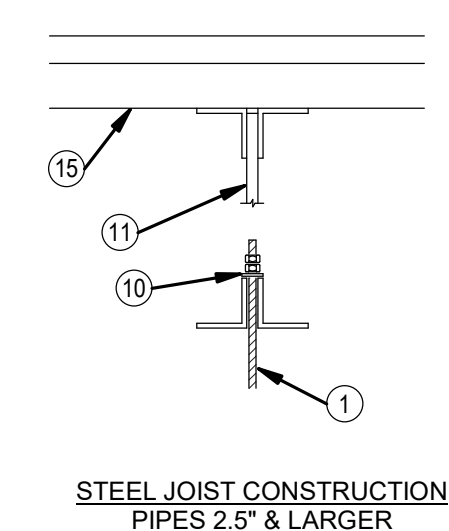


CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

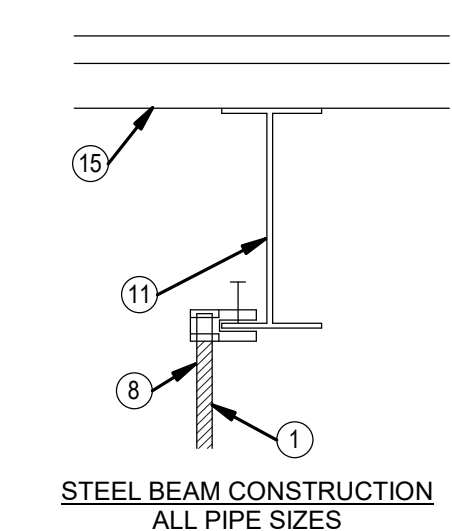
1 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



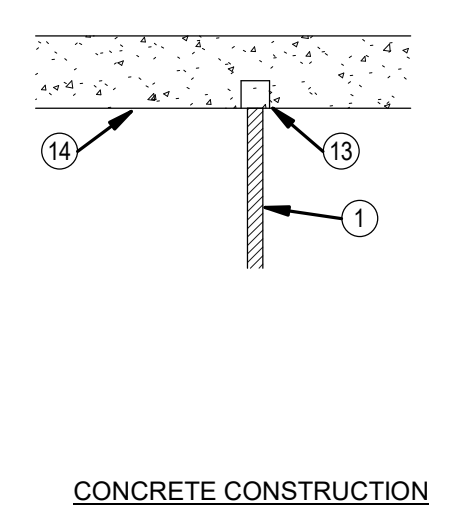
STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER



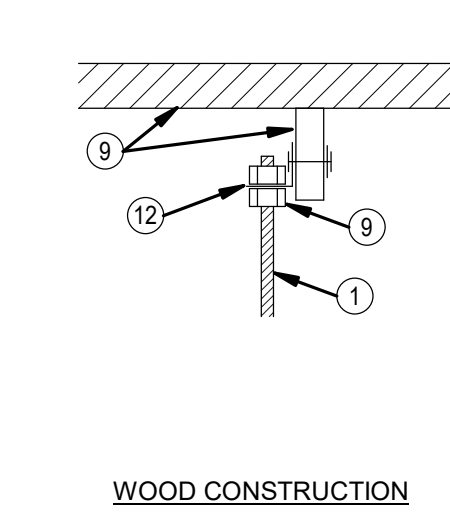
STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER



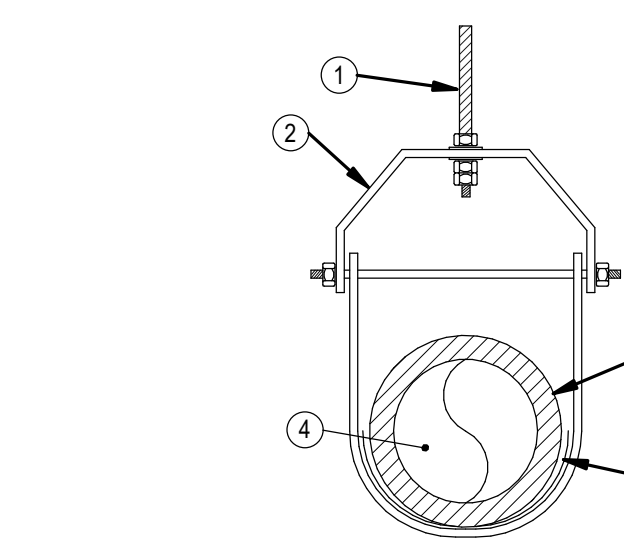
STEEL BEAM CONSTRUCTION
ALL PIPE SIZES



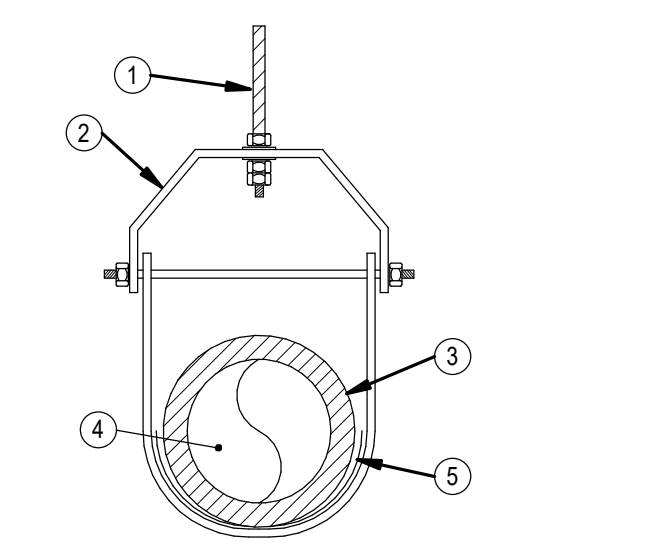
CONCRETE CONSTRUCTION



WOOD CONSTRUCTION



PIPING 2.5" & LARGER

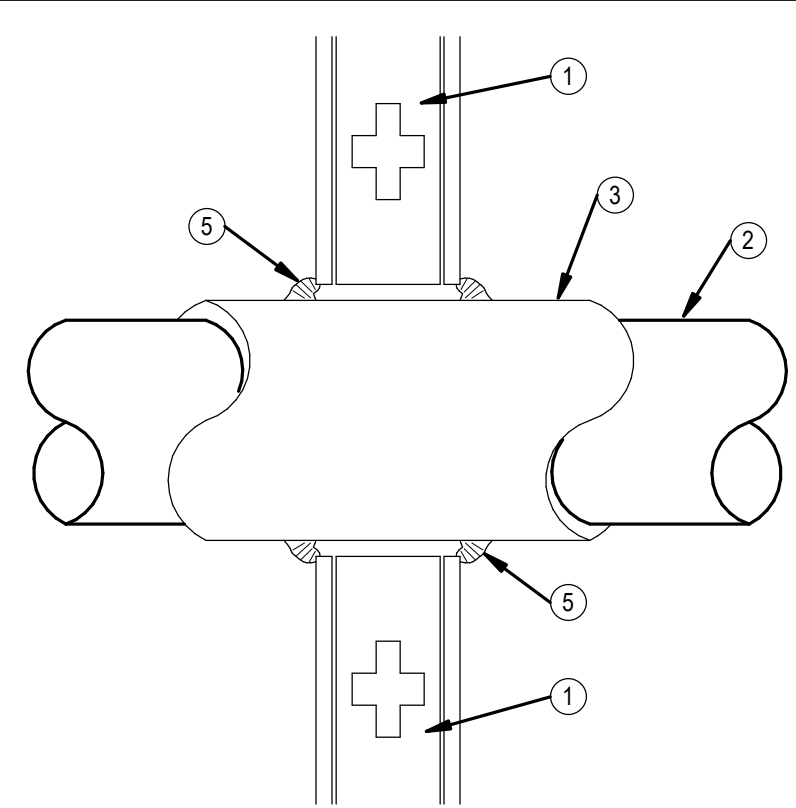


PIPING 2.0" & SMALLER

- 1 GALVANIZED THREADED ROD, ADJUST NUTS & RODS FOR PROPER ELEVATION.
- 2 STEEL CLEVIS PIPE HANGER, EQUAL TO ANVIL FIG. 260.
- 3 PIPE INSULATION.
- 4 PIPE.
- 5 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD, EQUAL TO ANVIL FIG. 168, CONTINUOUS INSULATION.
- 6 18" LONG INSULATED PIPE SADDLES, BUCKAROOS TRU-BALANCE 3300F OR EQUAL, PROVIDE WITH 3.75 LB. DENSITY PNEUMIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD, SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
- 7 PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER, SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
- 8 THREADED ROD BEAM CLAMP.
- 9 WOOD DECK & BEAM.
- 10 RETAINING NUTE & WASHERS.
- 11 STEEL JOIST OR BEAM.
- 12 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.
- 13 CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
- 14 CONCRETE SLAB OR PLANK.
- 15 METAL DECKING, DIRECT ATTACHMENT TO DECKING IS PROHIBITED, PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.

3 PIPE HANGERS
N.T.S.

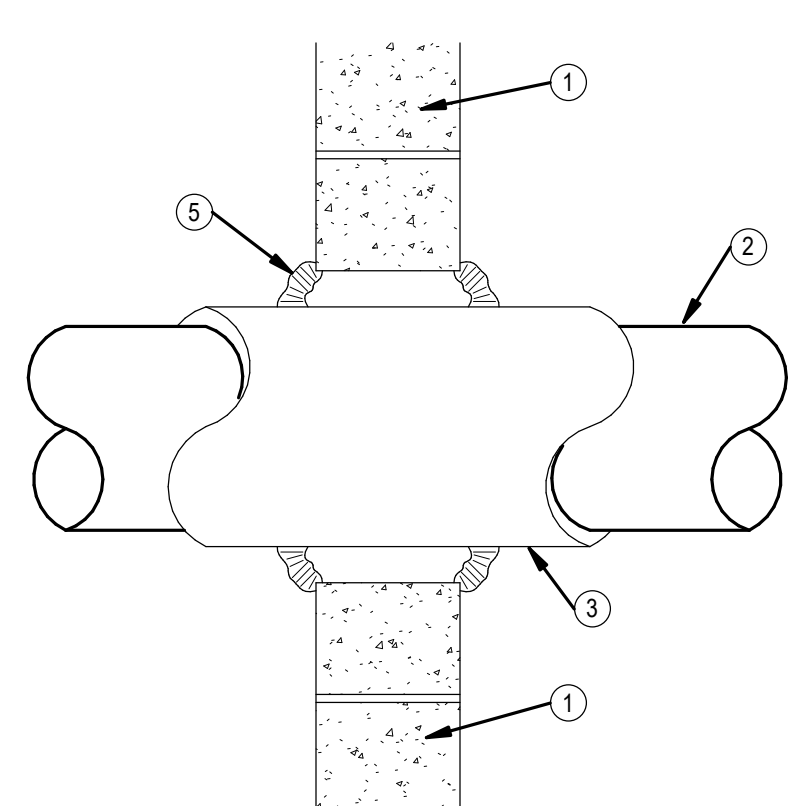
CLEVIS HANGER, INSULATED PIPE



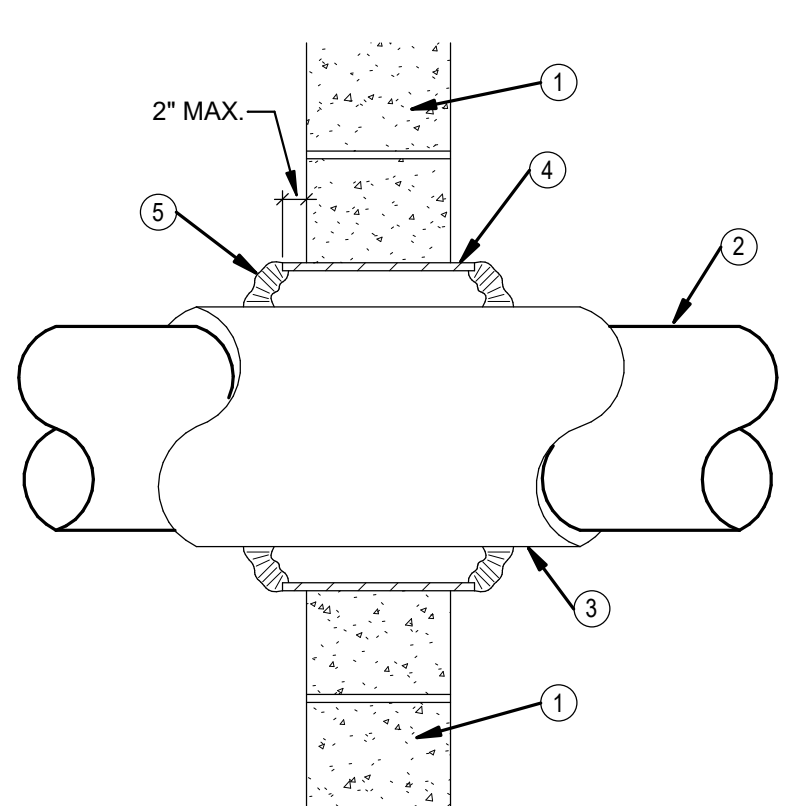
GYPSUM CONSTRUCTION
ALL PIPE SIZES

GENERAL NOTE:

- A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:
- IN FLOOR SLABS ON GRADE.
 - IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
 - FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
 - IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
 - IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.
- B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).



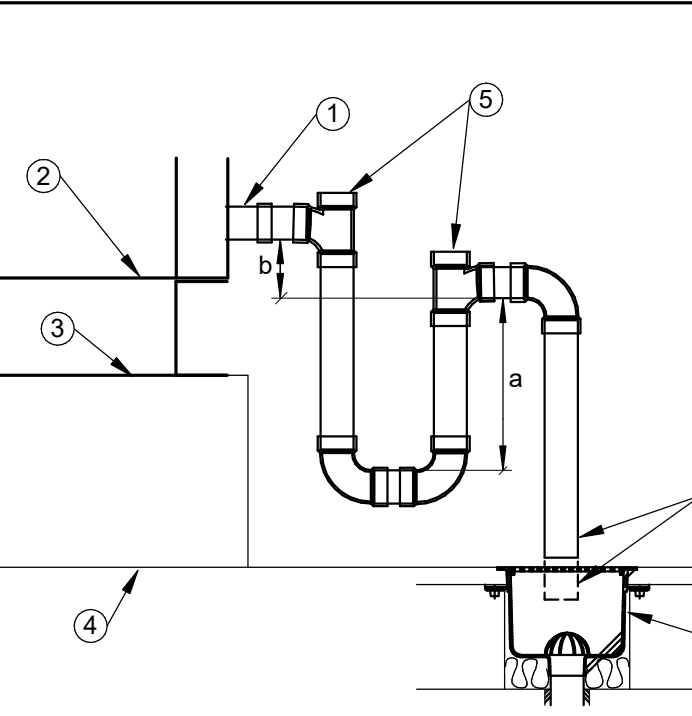
CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

- 1 FULL HEIGHT INTERIOR WALL.
- 2 PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- 4 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY, ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- 5 CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.

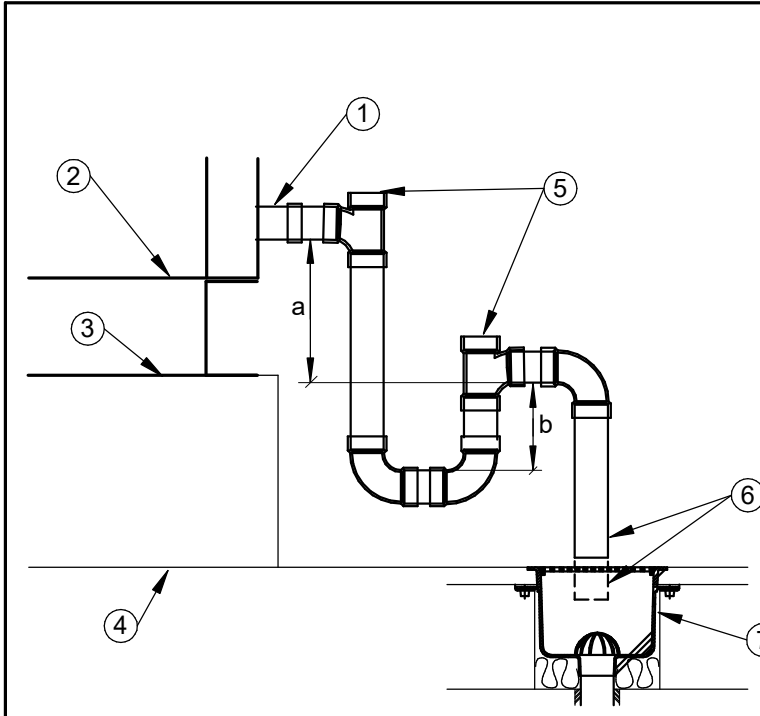


4 AH UNIT CONDENSATE TRAP
N.T.S.

BLOW THROUGH

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1/2"
b = 1/2" MINIMUM
-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

- 1 CONDENSATE DRAIN PIPE, PIPE SIZED TO MATCH CONDENSATE CONNECTION SIZE ON AHU, PIPING MATERIAL PER PIPING MATERIAL SCHEDULE.
- 2 A.H. UNIT FLOOR.
- 3 A.H. UNIT BASE.
- 4 4" CONCRETE EQUIPMENT PAD.
- 5 DWV TEE WITH CLEANOUT AND CAP.
- 6 COORDINATE TERMINATION WITH FLOOR DRAIN, TERMINATE IN DRAIN IF GRATE HAS OPENING, IF NO OPENING, TERMINATE SUCH THAT WATER DOES NOT SPLASH ONTO ADJACENT MECHANICAL ROOM FLOOR.
- 7 FLOOR DRAIN BY P.C.

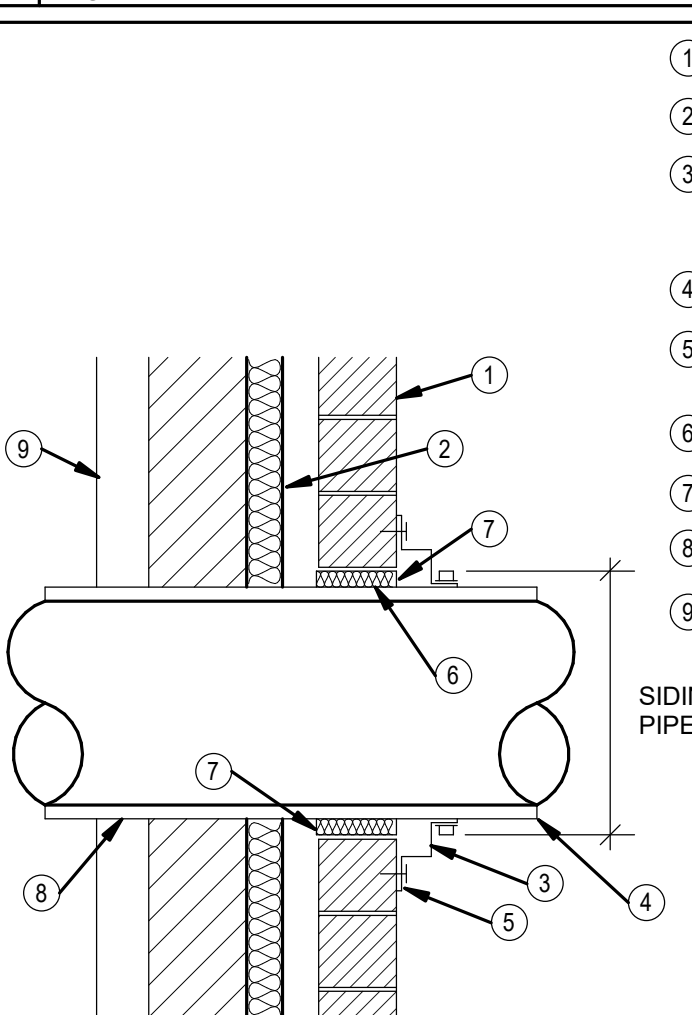


5 AH UNIT CONDENSATE TRAP
N.T.S.

DRAW THROUGH

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2
-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

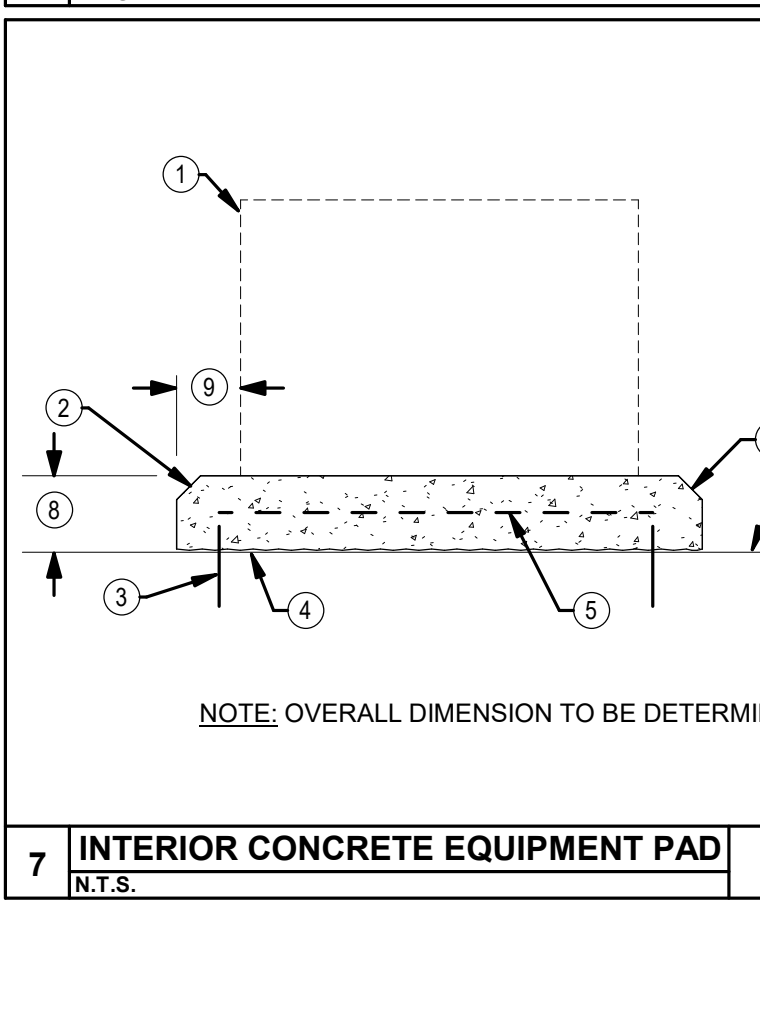
- 1 CONDENSATE DRAIN PIPE, PIPE SIZED TO MATCH CONDENSATE CONNECTION SIZE ON AHU, PIPING MATERIAL PER PIPING MATERIAL SCHEDULE.
- 2 A.H. UNIT FLOOR.
- 3 A.H. UNIT BASE.
- 4 4" CONCRETE EQUIPMENT PAD.
- 5 DWV TEE WITH CLEANOUT AND CAP.
- 6 COORDINATE TERMINATION WITH FLOOR DRAIN, TERMINATE IN DRAIN IF GRATE HAS OPENING, IF NO OPENING, TERMINATE SUCH THAT WATER DOES NOT SPLASH ONTO ADJACENT MECHANICAL ROOM FLOOR.
- 7 FLOOR DRAIN BY P.C.



6 PIPE PENETRATIONS EXTERIOR WALL
N.T.S.

- 1 EXTERIOR BRICK.
- 2 WALL INSULATION.
- 3 HIGH TEMPERATURE SILICONE WALL FLASHING, SET BASE FLANGE IN CAULK AND ANCHOR TO SIDING.
- 4 PIPE THROUGH EXTERIOR WALL.
- 5 SHEETMETAL CLOSURE ANGLES, COLOR TO MATCH ADJACENT SIDING.
- 6 FILL VOIDS WITH INSULATION.
- 7 HIGH TEMPERATURE RATED CAULKING.
- 8 PIPE SLEEVE.
- 9 INTERIOR WALL.

SIDING OPNG.
PIPE DIM. +2"



7 INTERIOR CONCRETE EQUIPMENT PAD
N.T.S.

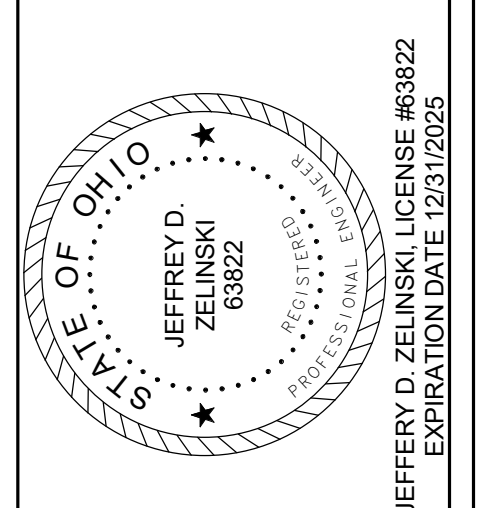
- 1 OUTLINE OF EQUIPMENT.
- 2 4,000 PSI CONCRETE.
- 3 1-#4 DOWEL, 6" LONG, EACH CORNER.
- 4 ROUGHEN SLAB & APPLY BONDING AGENT.
- 5 STEEL REINFORCING MESH.
- 6 FINISHED CONCRETE FLOOR.
- 7 45 DEG. CHAMFER ALL AROUND.
- 8 4" THICK CONCRETE SLAB.
- 9 MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

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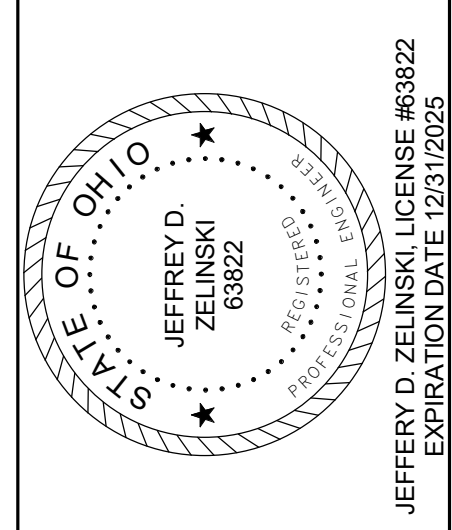
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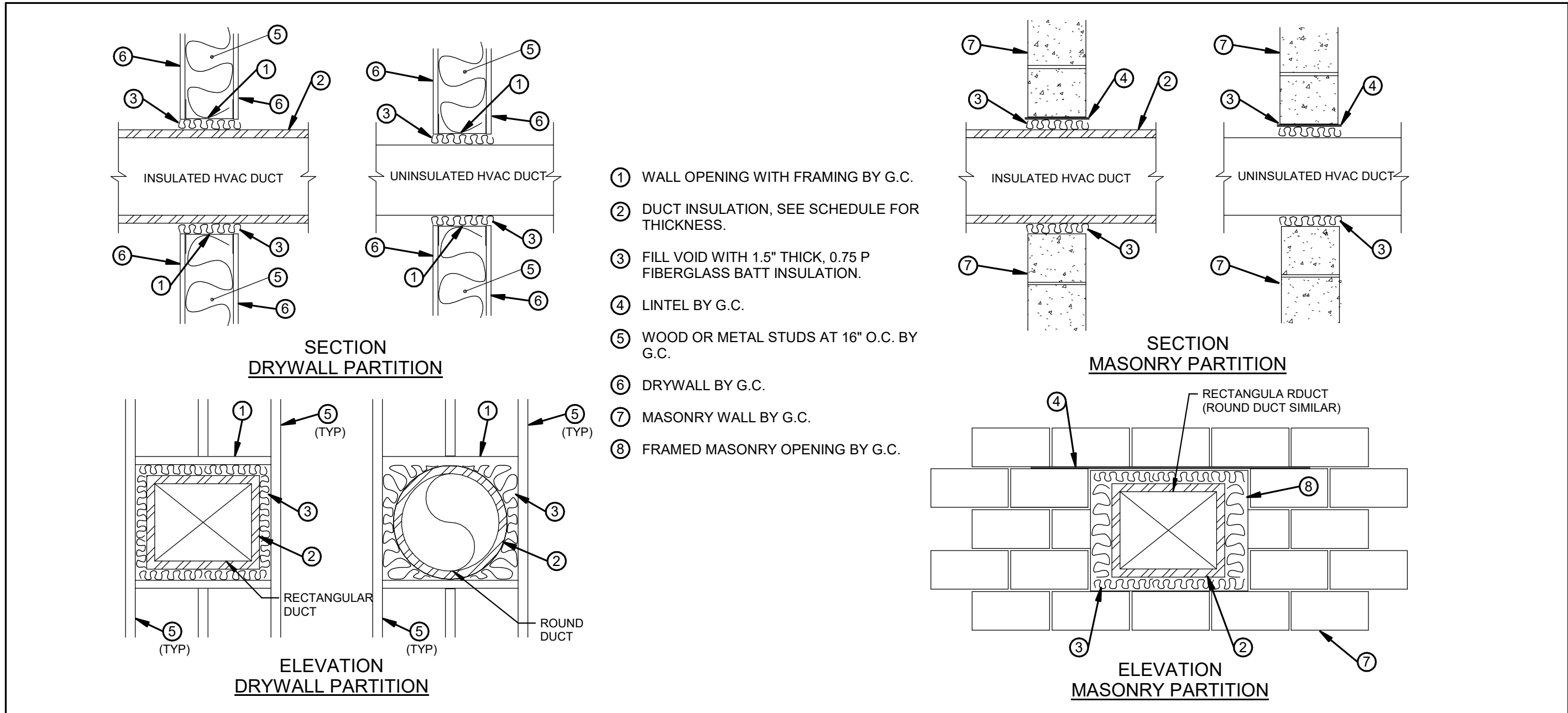
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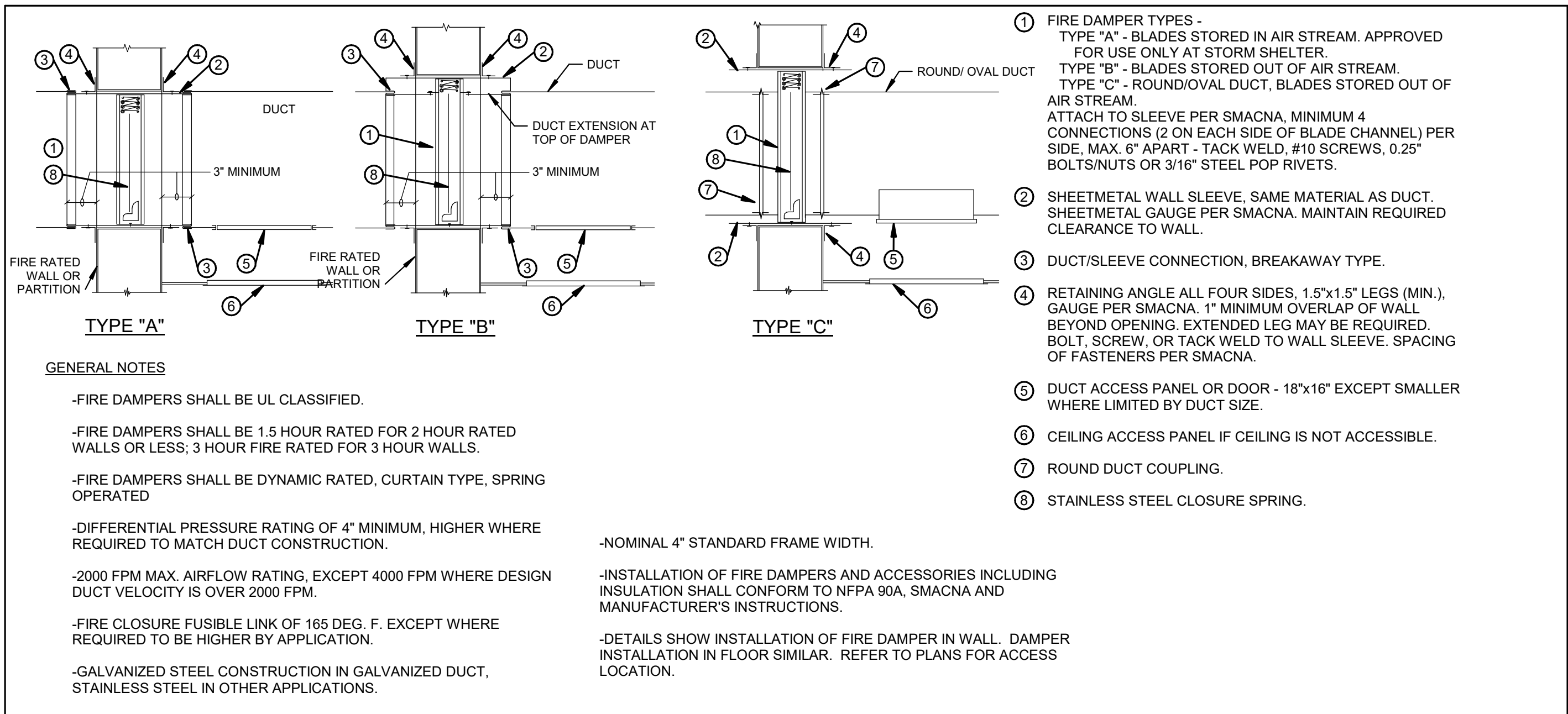


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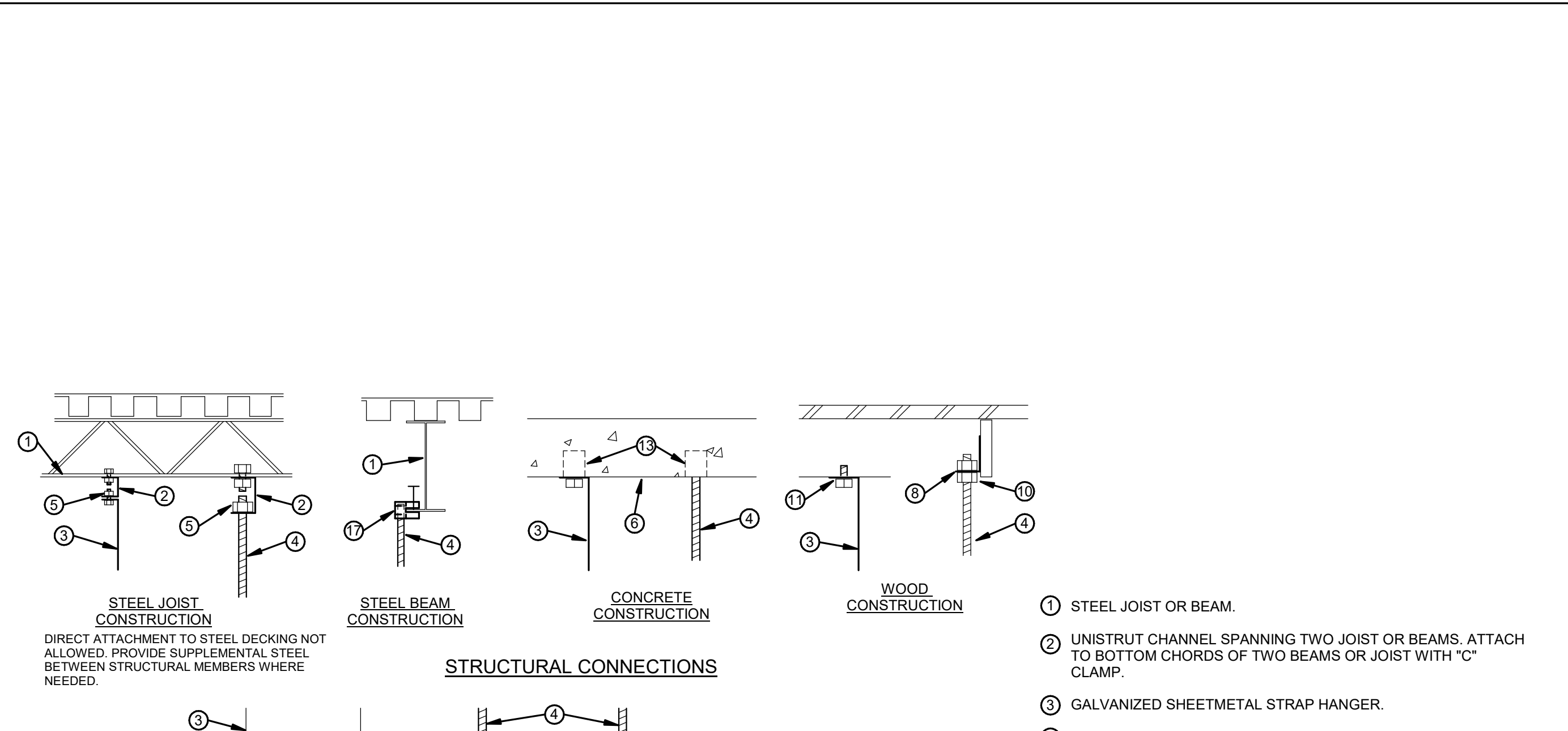
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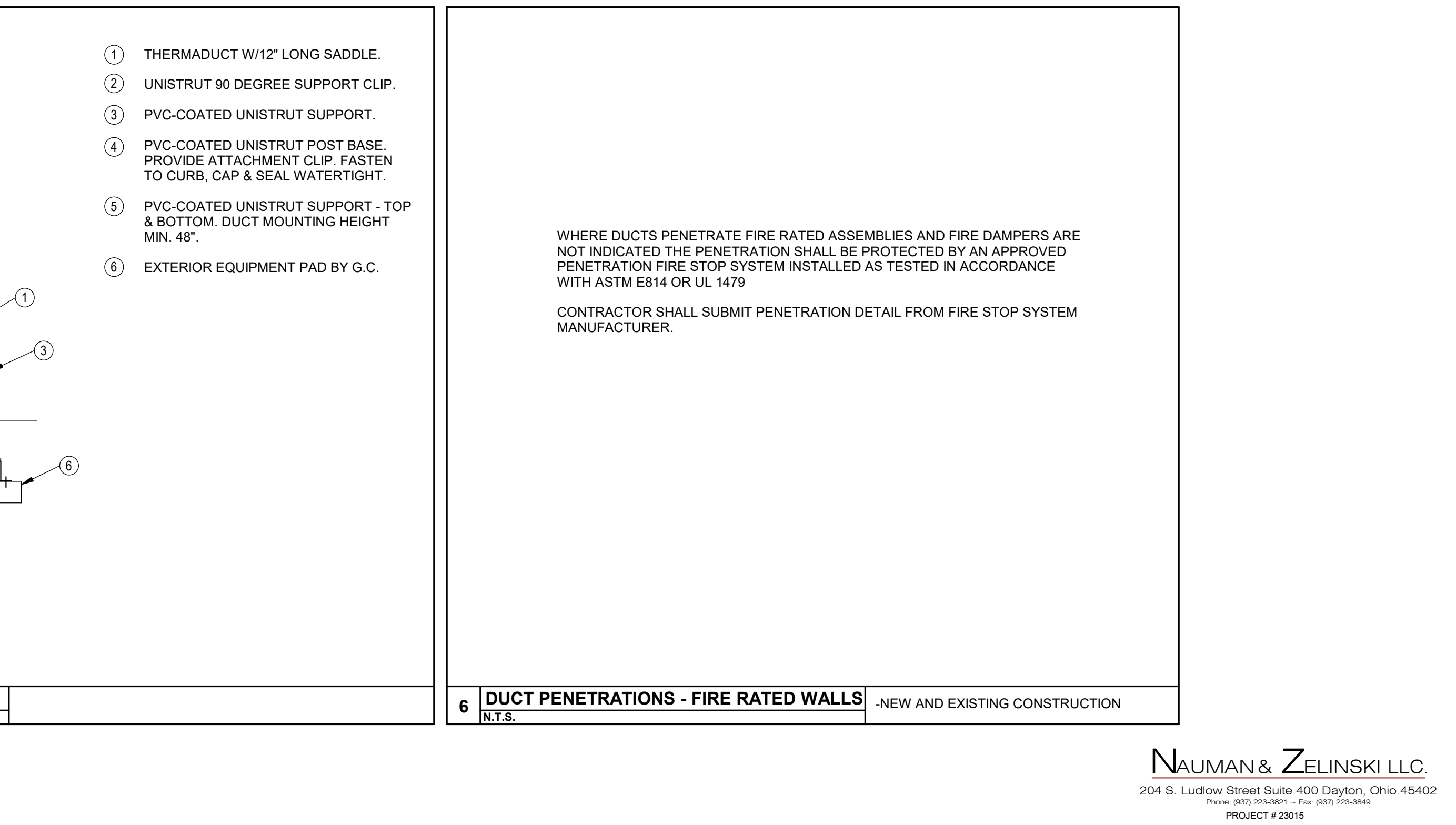
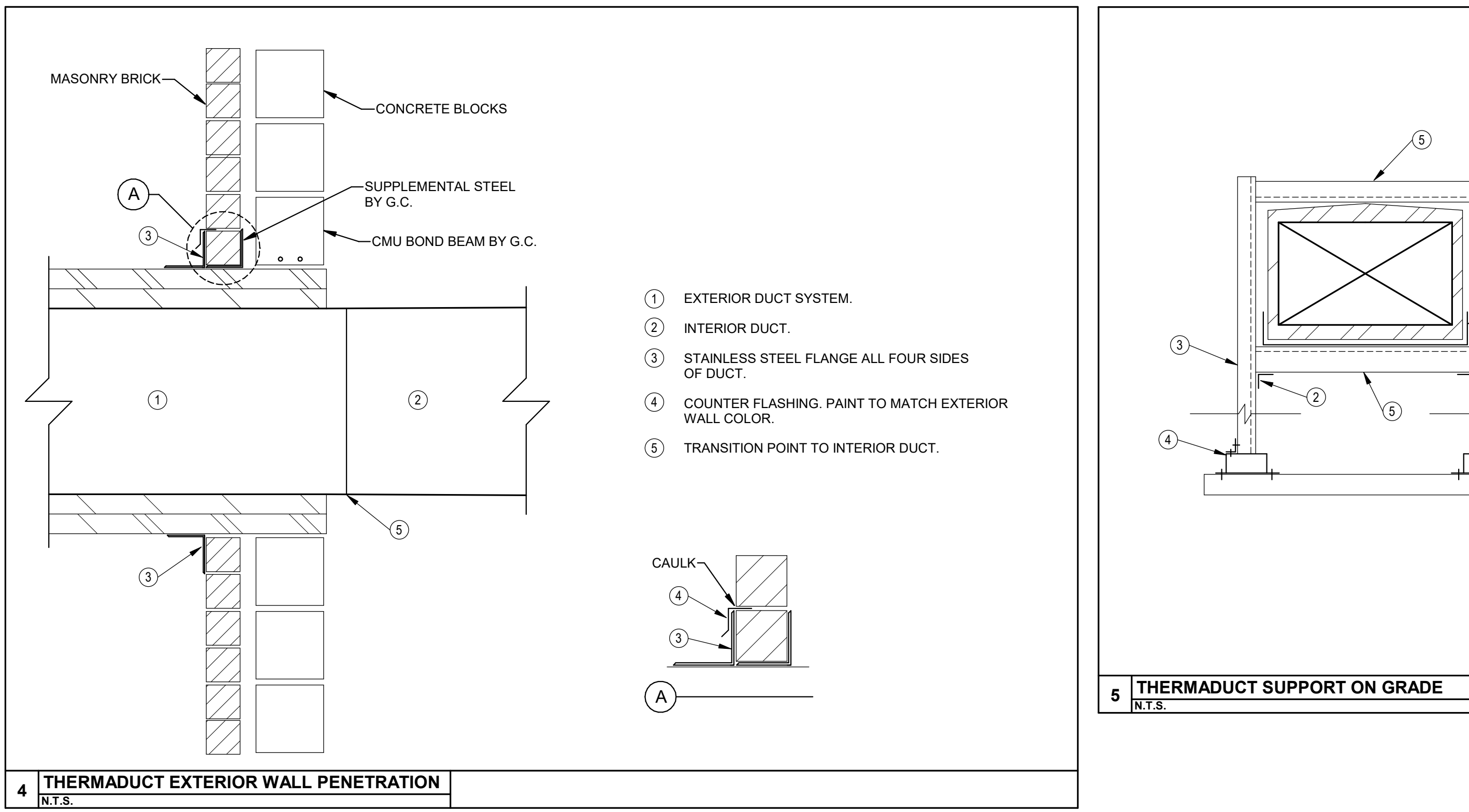
1 DUCT SEALING THRU NON-FIRE RATED WALL * NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"
 N.T.S.

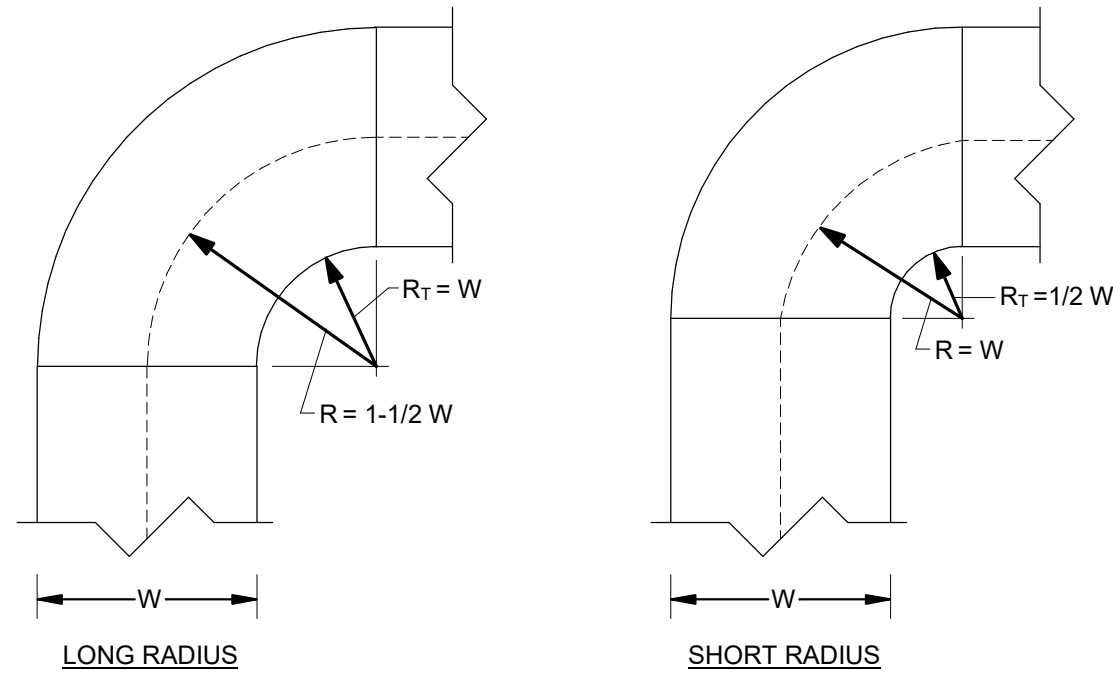


2 FIRE DAMPERS DETAIL
 N.T.S.



3 DUCT HANGERS & SUPPORTS **METAL STRAP & ROD HANGERS**
 N.T.S.

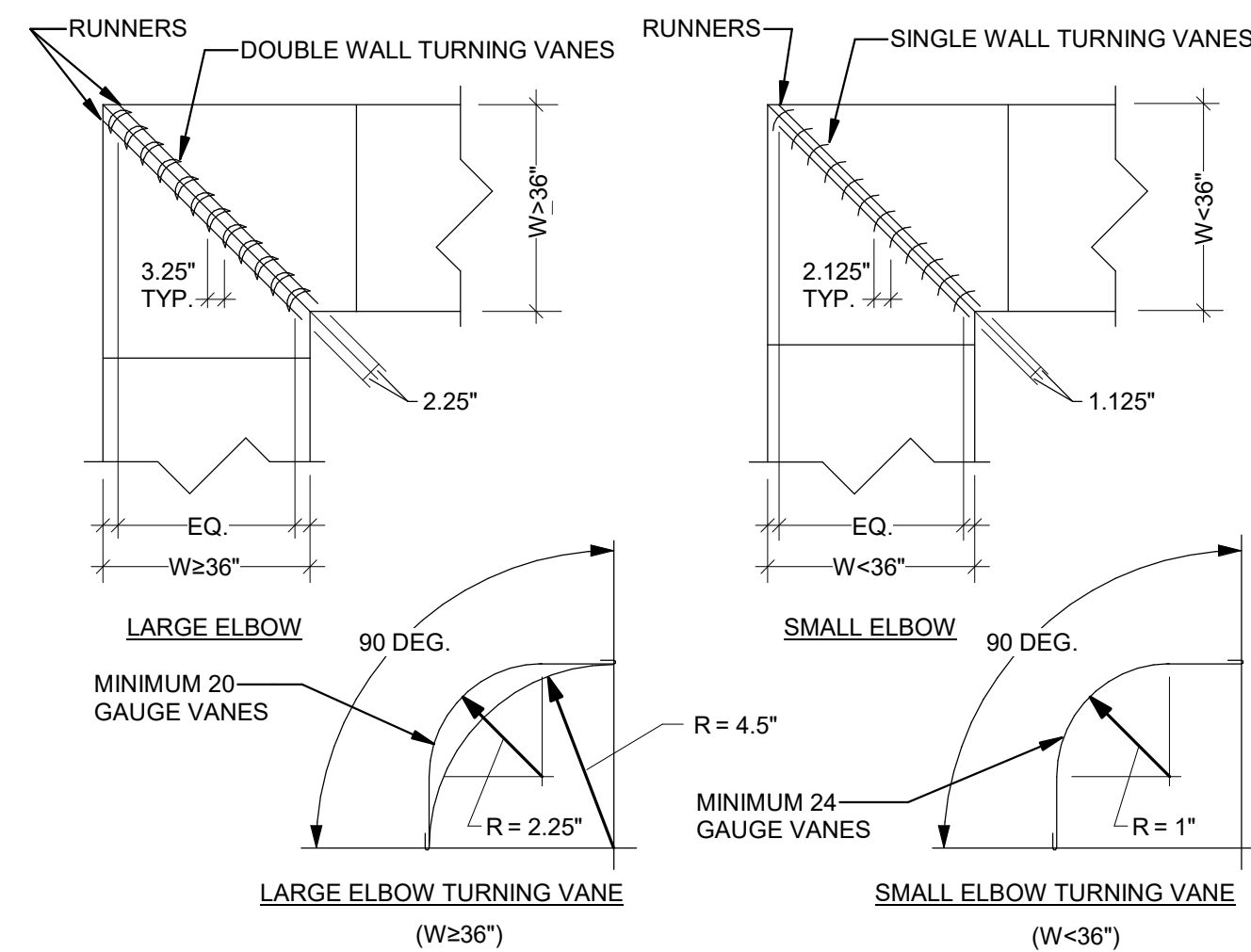




- NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
 2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

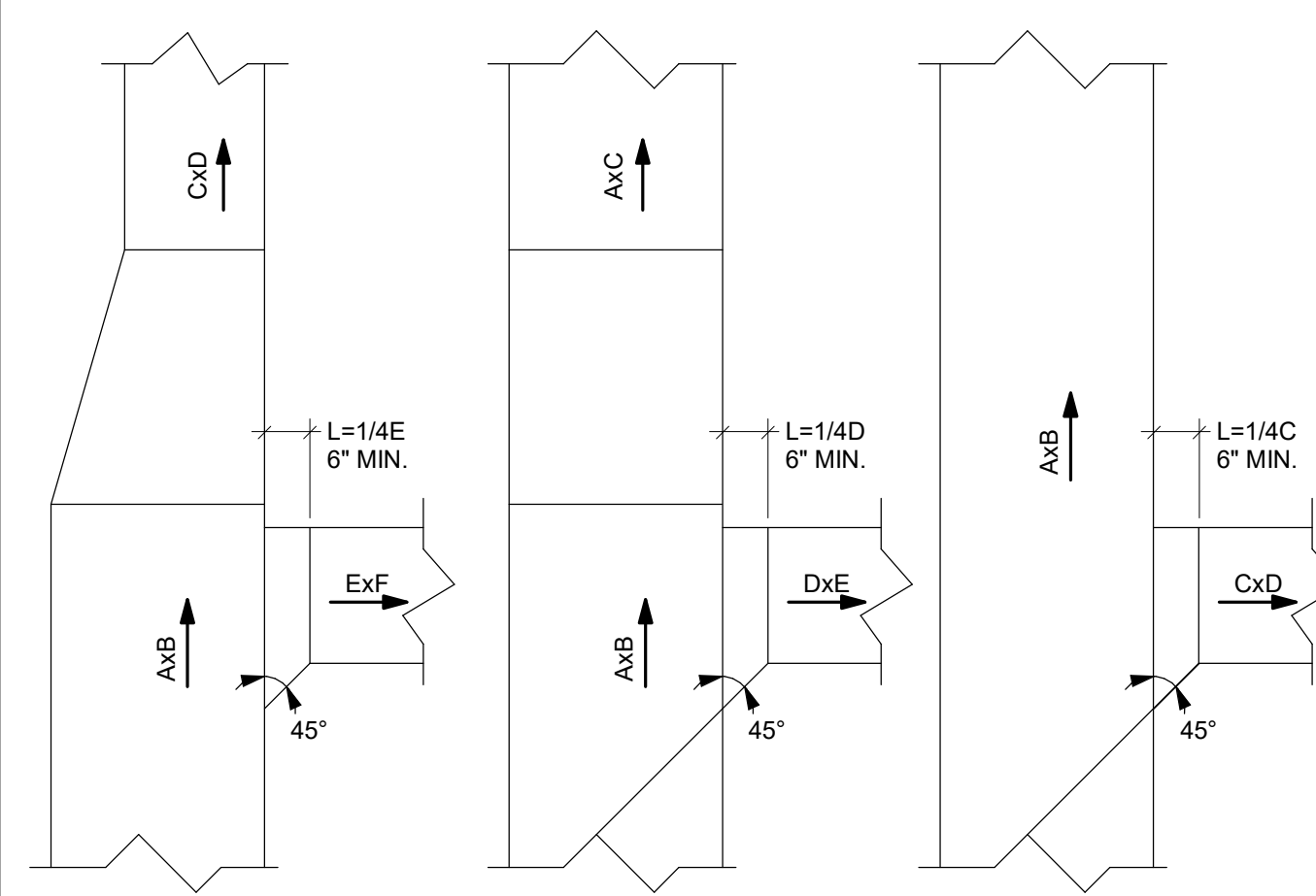
NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

1 RECTANGULAR 90° RADIUS ELBOW
N.T.S.



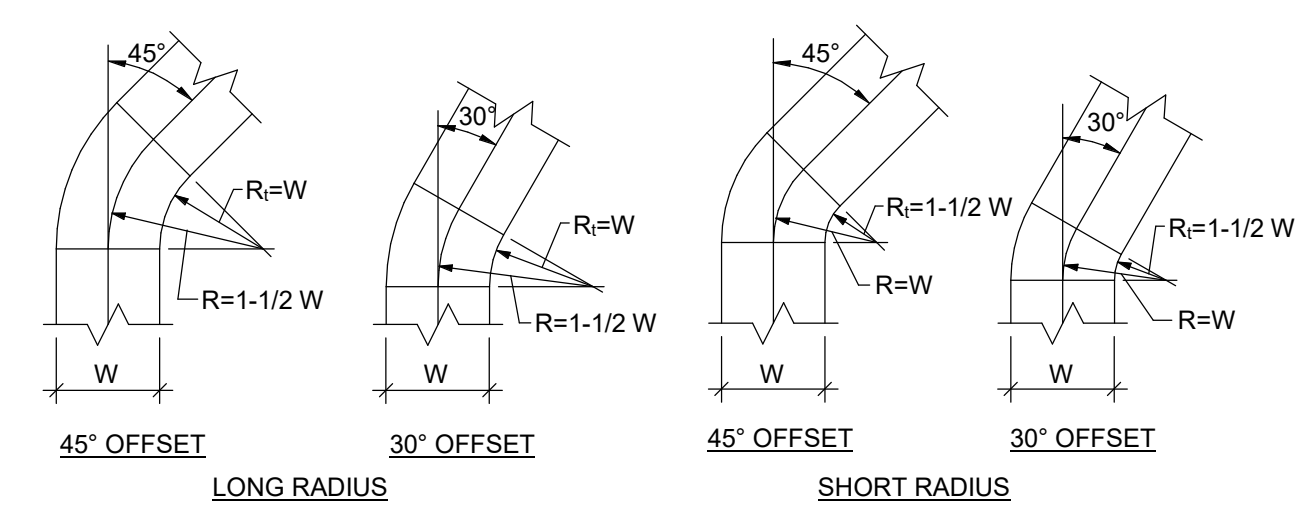
- NOTES:
1. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
 2. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
 3. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
 4. VANES ARE NOT TO HAVE TRAILING EDGES.

2 RECTANGULAR 90° MITERED ELBOW
N.T.S.



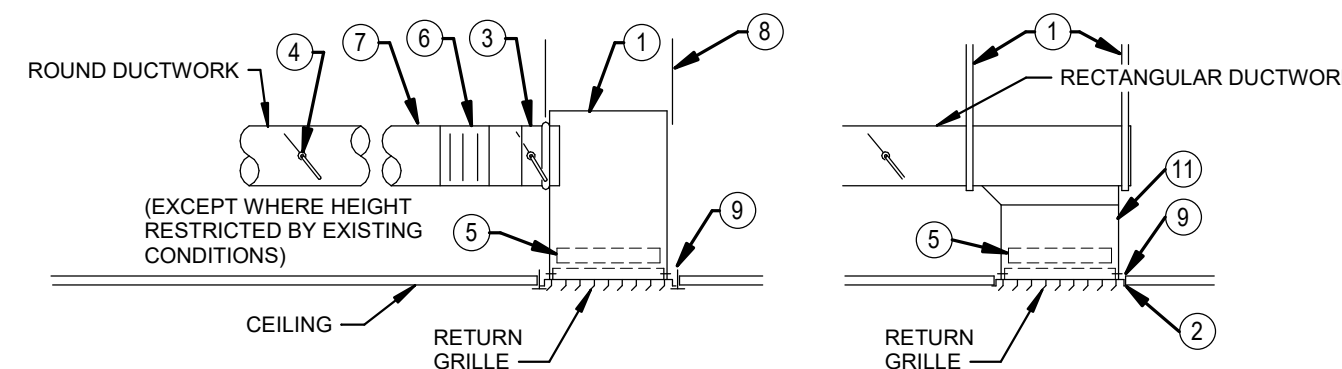
- NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
 2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
 3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
 4. TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

3 RECTANGULAR 90° SIDE TAP
N.T.S.



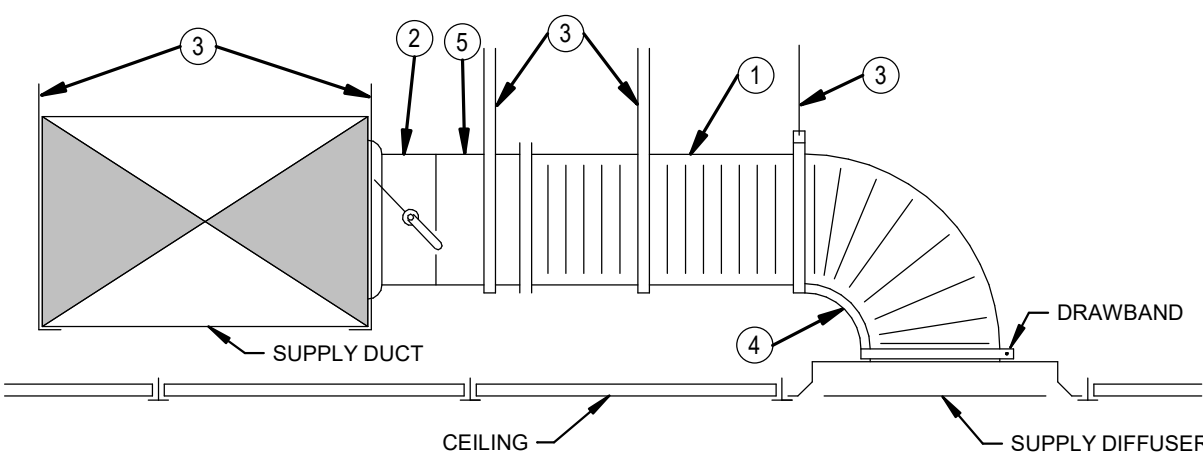
- NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
 2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

4 RECTANGULAR 45° & 30° RADIUS ELBOW
N.T.S.



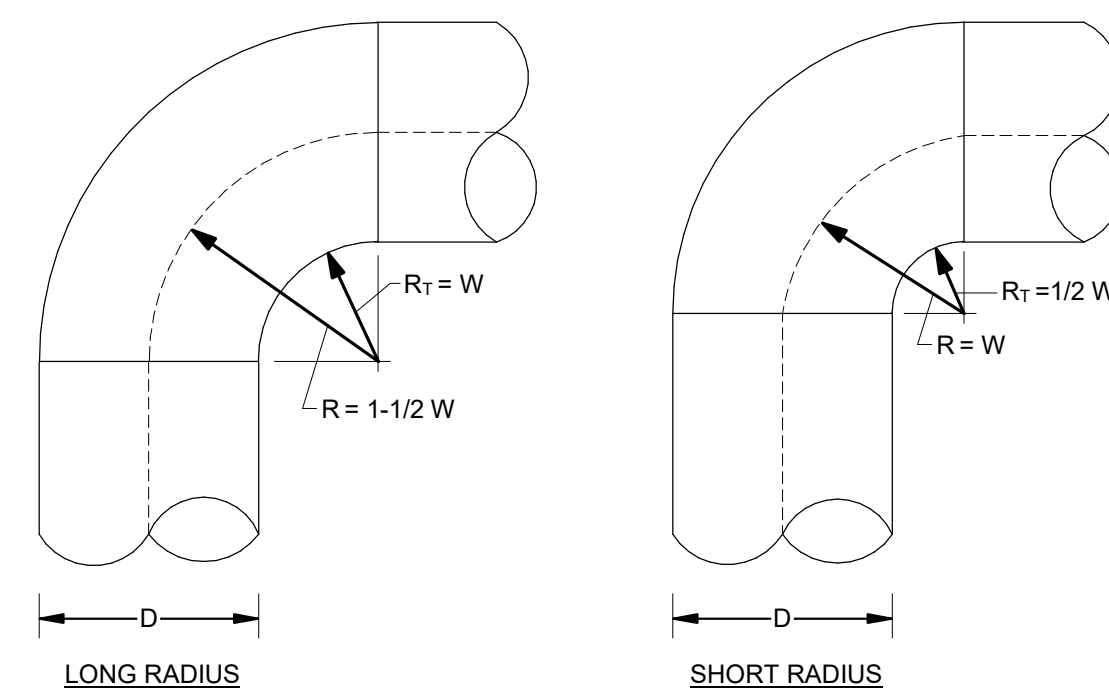
1. PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
2. EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
3. SPIN-IN FITTING WITH BALANCING DAMPER. USE FOR ALL ACCESSIBLE CEILINGS.
4. PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
6. FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY. MAX. 1 FT. REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
7. SHEETMETAL DUCT.
8. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
9. FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
10. DUCT STRAP HANGER.
11. VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

5 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



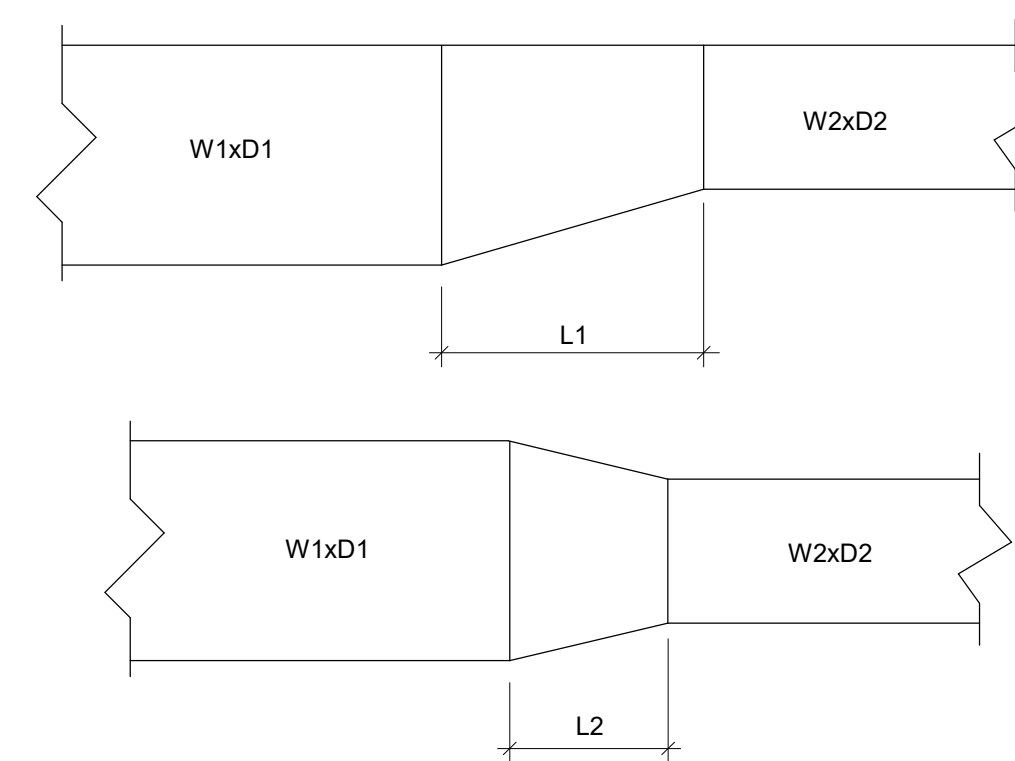
1. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 5 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP HANGER. ATTACH TO STRUCTURE. PER SMACNA.
4. 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
5. SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

6 CEILING DIFFUSER
N.T.S.



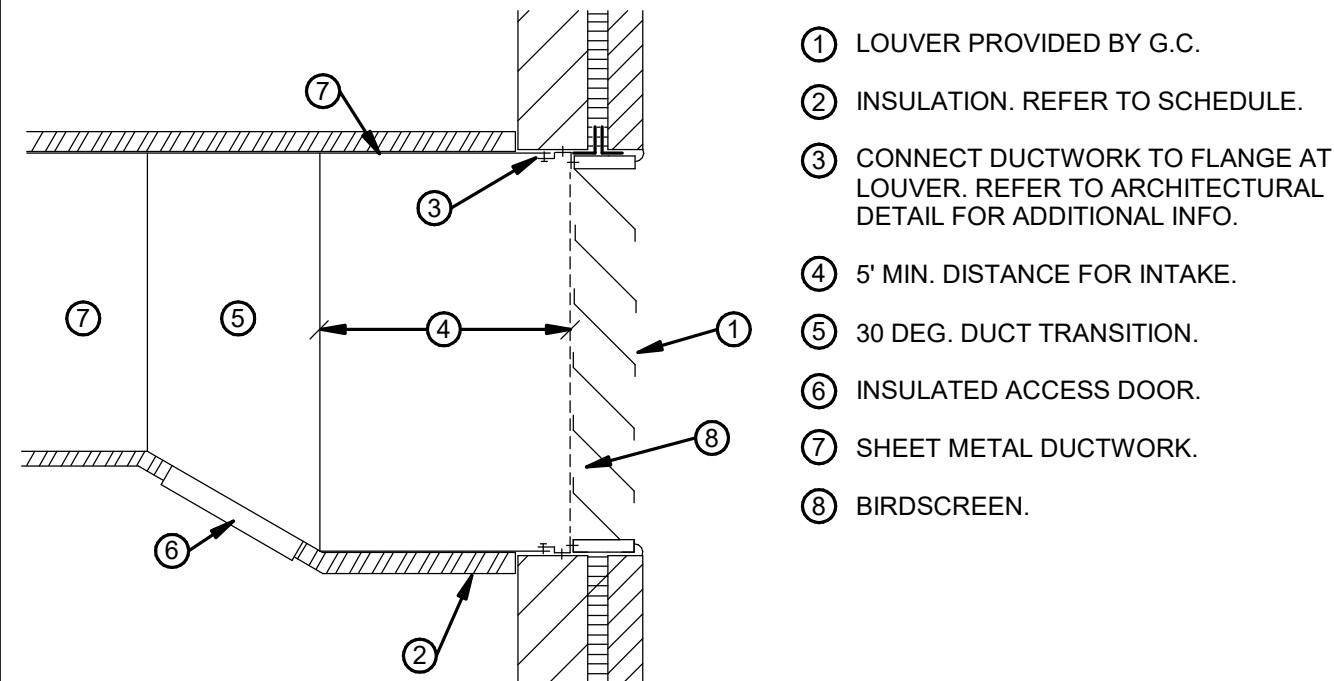
- NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
 2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

7 ROUND 90° RADIUS ELBOW
N.T.S.



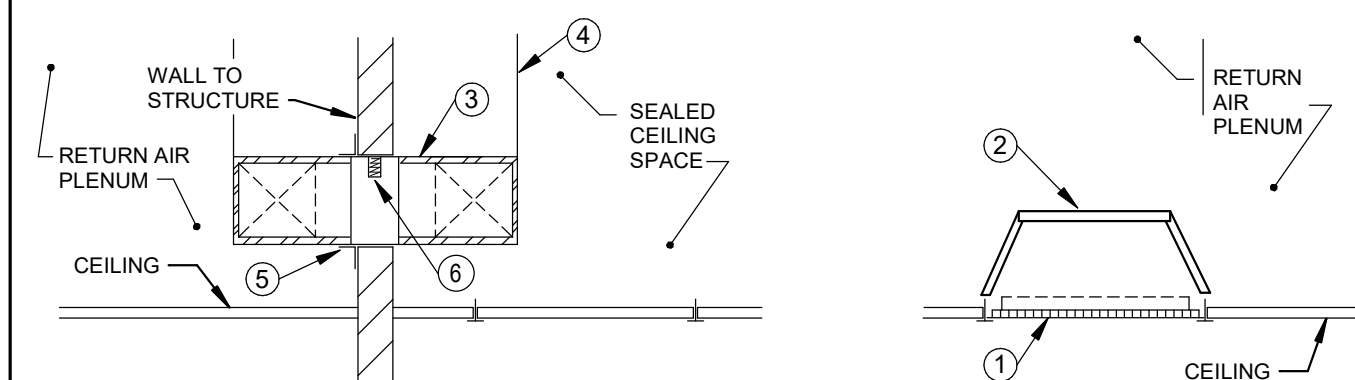
- NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
 2. FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
L1 = 4 x (W1-W2) OR 4 x (D1-D2) WHICHEVER IS GREATER.
L2 = 2 x (W1-W2) OR 2 x (D1-D2) WHICHEVER IS GREATER.
 3. FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
L1 = 7 x (W1-W2) OR 7 x (D1-D2) WHICHEVER IS GREATER.
L2 = 3.5 x (W1-W2) OR 3.5 x (D1-D2) WHICHEVER IS GREATER.

8 RECTANGULAR TRANSITION
N.T.S.



1. LOUVER PROVIDED BY G.C.
2. INSULATION. REFER TO SCHEDULE.
3. CONNECT DUCTWORK TO FLANGE AT LOUVER. REFER TO ARCHITECTURAL DETAIL FOR ADDITIONAL INFO.
4. 5' MIN. DISTANCE FOR INTAKE.
5. 30 DEG. DUCT TRANSITION.
6. INSULATED ACCESS DOOR.
7. SHEET METAL DUCTWORK.
8. BIRDSCREEN.

9 WALL LOUVER
N.T.S.



1. RETURN GRILLE.
2. RETURN AIR CANOPY.
3. TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
4. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
5. FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
6. FIRE DAMPER WHERE INDICATED ON PLAN.

10 TRANSFER AIR GRILLE/PLENUM
N.T.S.

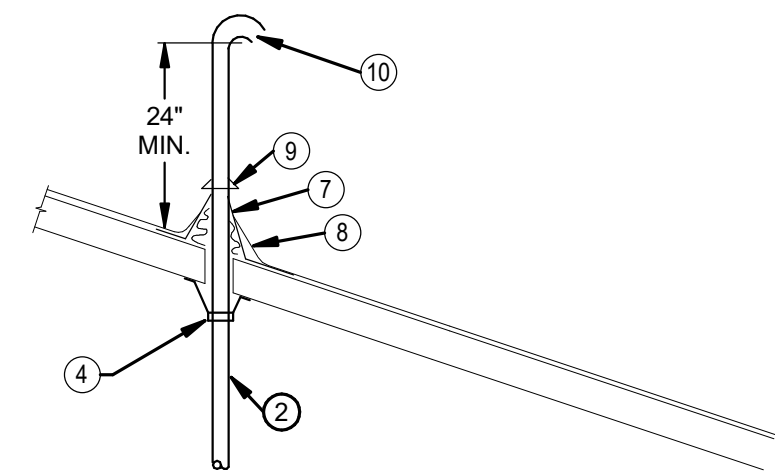
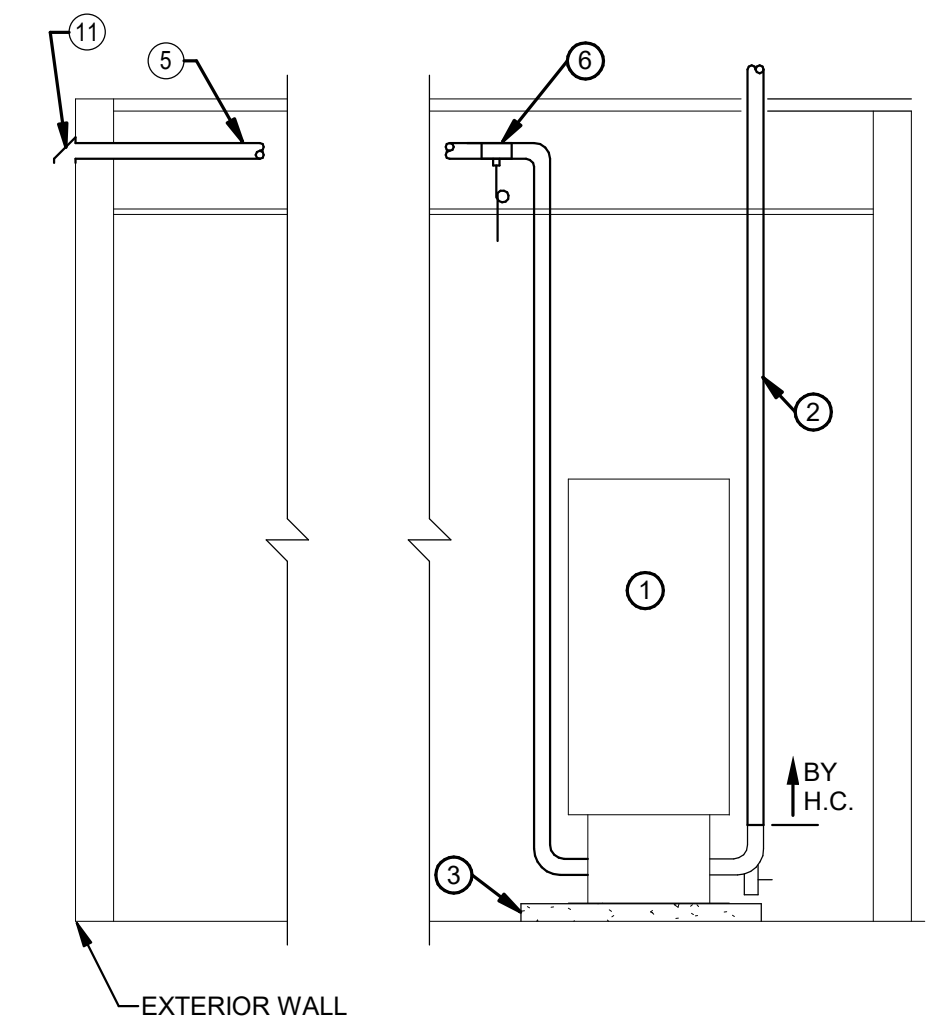
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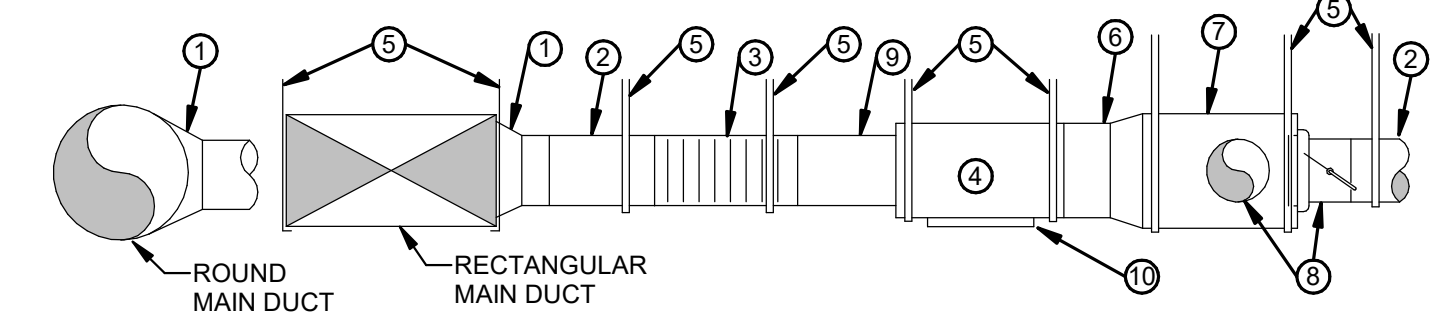
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COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DJZ	DJZ
DETAILS	



- 1 DOMESTIC WATER HEATER BY P.C.
- 2 3"Ø FLUE. REFER TO DUCT CONSTRUCTION SCHEDULE FOR PIPE MATERIAL. SLOPE HORIZONTAL PIPING AT 1/8" PER 1' TOWARD WATER HEATER. CONNECT TO ELBOW EXHAUST ASSEMBLY.
- 3 HOUSEKEEPING PAD BY OTHERS.
- 4 SUPPORT RING. SECURE TO STRUCTURE.
- 5 4"Ø INTAKE. REFER TO DUCT CONSTRUCTION SCHEDULE FOR PIPE MATERIAL. SLOPE HORIZONTAL PIPING AT 1/8" PER 1' TOWARD WATER HEATER.
- 6 PROVIDE TEE WITH DRAIN TUBING. ROUTE TUBING TO FLOOR DRAIN. INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 7 S.S. FLASHING CONE.
- 8 ROOF FLASHING BY ROOFING CONTRACTOR.
- 9 STORM COLLAR.
- 10 GOOSENECK AND BIRD SCREEN.
- 11 4"Ø INTAKE CAP WITH BIRD SCREEN. FINAL CUSTOM COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.

1 CONDENSING HOT WATER HEATER
N.T.S. COMBUSTION AIR AND FLUE

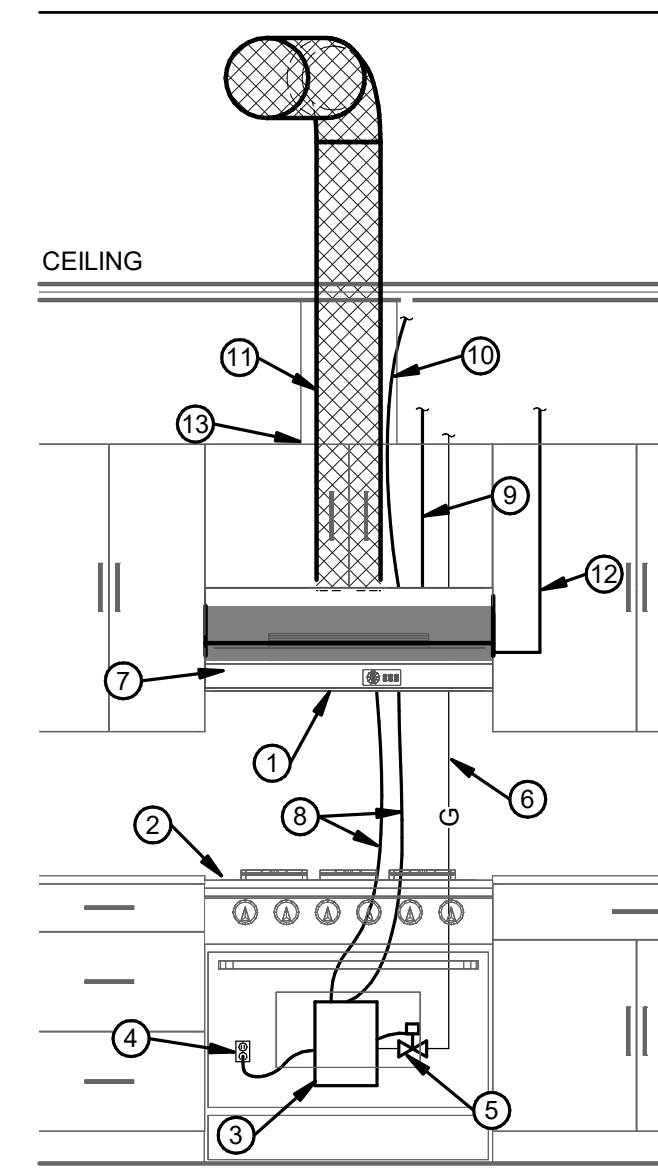


- 1 CONICAL TEE BRANCH FITTING.
- 2 ROUND SHEET METAL BRANCH DUCT. LENGTH AS REQUIRED. INSULATED.
- 3 INSULATED FLEXIBLE DUCT, 4' MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. DUCT SHALL BE FLEXMASTER TL-M ALUMINUM SPIRAL LINER WITH 1.5" INSULATION.
- 4 VAV REHEAT AIRFLOW CONTROL UNIT.
- 5 DUCT STRAP HANGER. ATTACH TO STRUCTURAL ELEMENTS.
- 6 ELECTRIC REHEAT COIL.
- 7 LOW PRESSURE RECTANGULAR SUPPLY DUCT. WHERE NOT SIZED ON THE DRAWINGS, SIZE TO MATCH COIL DIMENSIONS EXCEPT TRANSITION DUCT HEIGHT TO BE 2" HIGHER THAN LARGEST SPIN-IN BRANCH TAP FITTING.
- 8 SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER AND INTEGRAL INSULATION GUARD SLEEVE.
- 9 24" LONG SHEETMETAL AT BOX INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
- 10 ACCESS DOOR. LOCATE ON UNITS WITH REHEAT COILS ONLY.

NOTE:
COORDINATE WITH OTHER TRADES AND INSTALL VAV BOXES TO PROVIDE 18" SIDE AND UNOBSTRUCTED BOTTOM CLEARANCE TO CONTROLLER. ACTUATORS AND VALVES FOR MAINTENANCE. COORDINATE TO INSURE ACCESS IS PROVIDED BY SIMPLE REMOVAL OF ADJACENT UNRESTRICTED CEILING TILES (FREE OF CEILING MOUNTED DEVICES) WITHOUT NEED TO REMOVE LIGHTS OR CEILING GRID. ACCESS DOOR ON BOX IS FOR INSPECTION AND UPSTREAM COIL CLEANING. ACCESS DOOR USE IS RARE AND REMOVAL OF LIGHTS OR CEILING GRID TO GAIN ACCESS IS ACCEPTABLE.

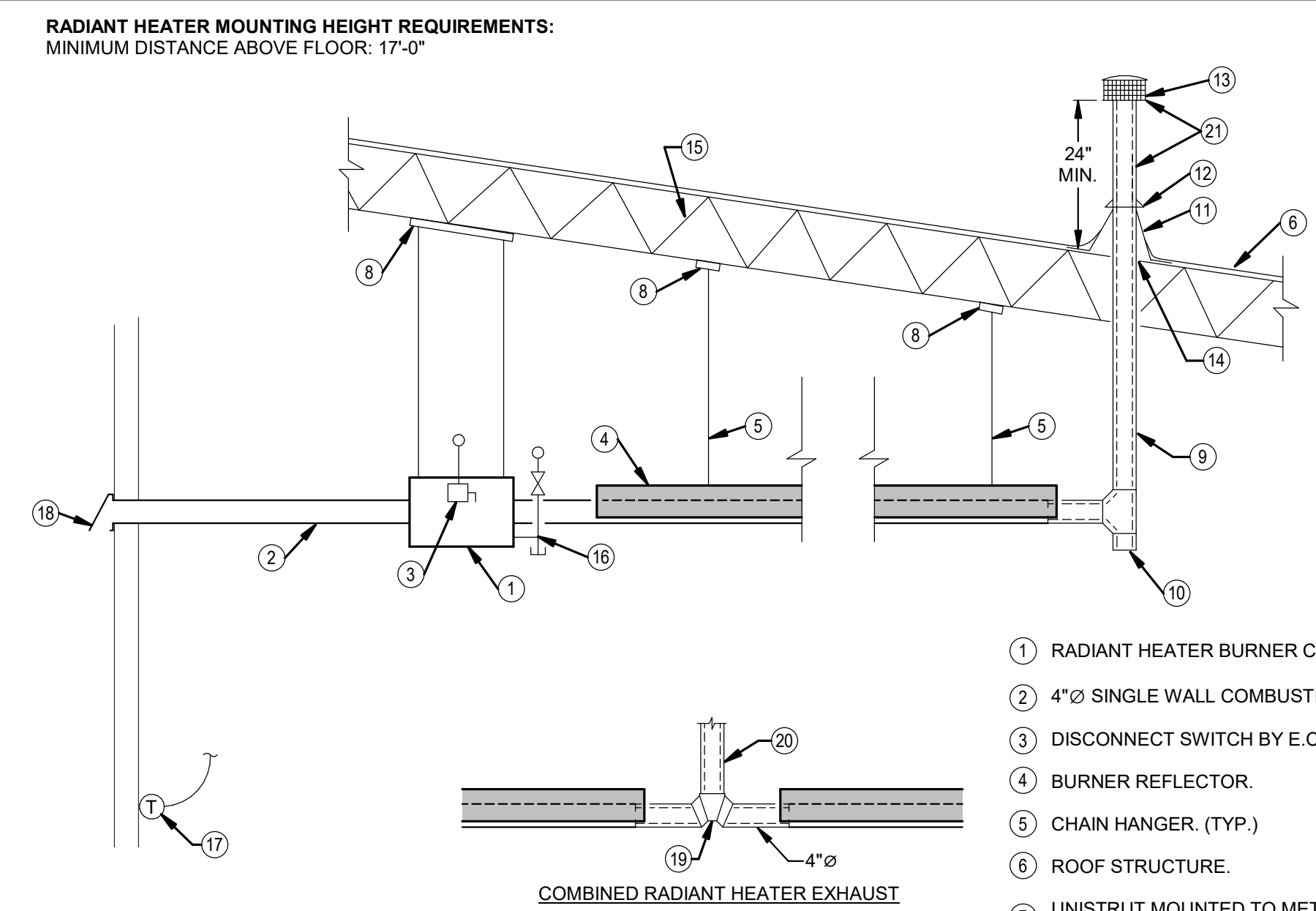
MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL VAV BOXES WITH 2" HIGH PAINTED STENCIL LETTERING.

2 VARIABLE AIR VOLUME UNIT W/ REHEAT COIL
N.T.S.



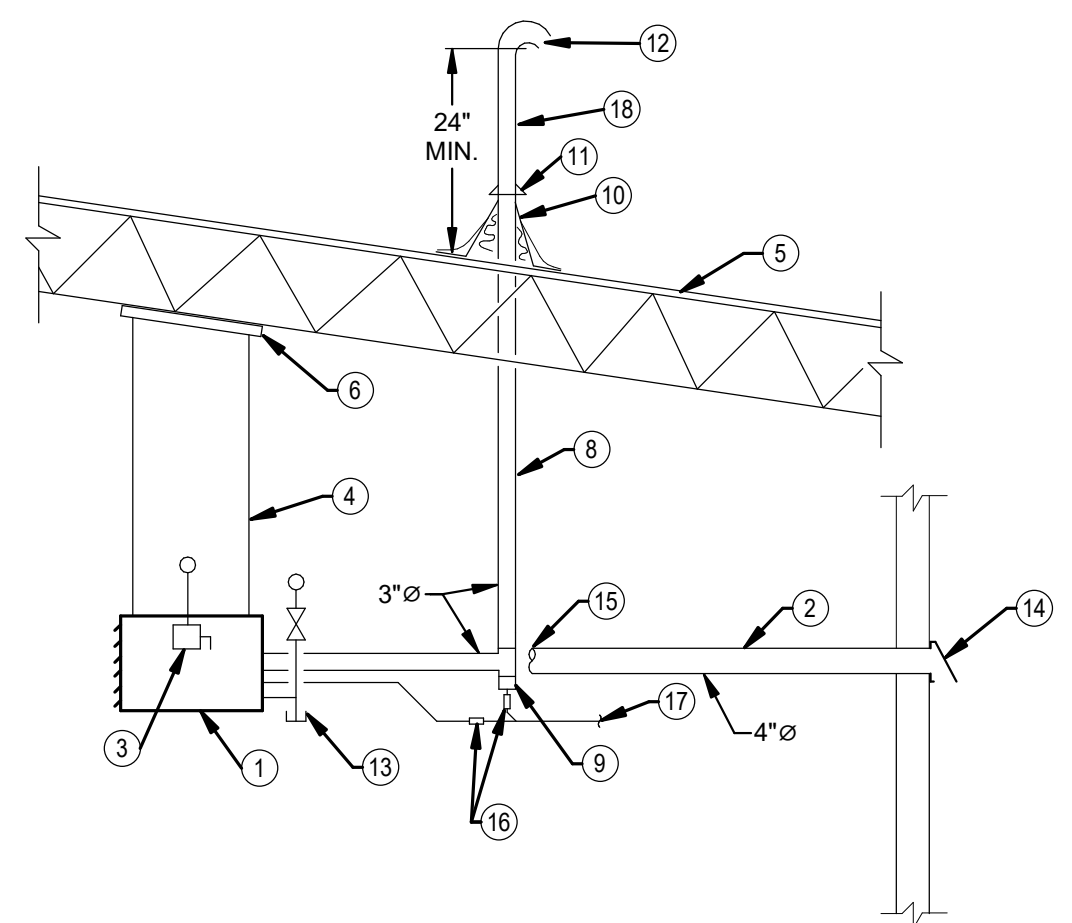
- 1 KITCHEN HOOD BY H.C. HOOD INSTALLED BY H.C.
- 2 RANGE BY OTHERS.
- 3 GAS SHUT-OFF CONTROLLER BOX PROVIDED WITH KITCHEN HOOD.
- 4 120V RECEPTACLE BY E.C. FOR CORD AND PLUG CONNECTION TO GAS SHUT-OFF CONTROLLER.
- 5 NATURAL GAS SOLENOID VALVE PROVIDED WITH KITCHEN HOOD. VALVE INSTALLED BY P.C.
- 6 NATURAL GAS PIPING BY P.C.
- 7 KITCHEN HOOD USER INTERFACE SCREEN.
- 8 LOW VOLTAGE WIRING BY E.C. REFER TO MANUFACTURER'S INSTALLATION FIELD DIAGRAM FOR ADDITIONAL INFORMATION.
- 9 120V KITCHEN HOOD POWER CONNECTION BY E.C.
- 10 LINE AND LOW (0-10VDC) VOLTAGE WIRING BY E.C. TO INLINE EXHAUST FAN.
- 11 8" DIA. STAINLESS STEEL EXHAUST DUCT BY H.C. TRANSITION TO 10" DIAMETER ABOVE CEILING.
- 12 CONTROL CONNECTION TO HOOD DRY CONTACT. REFER TO CONTROL DIAGRAM 3, SHEET H4.3.
- 13 ENCLOSURE BY G.C.

3 KITCHEN HOOD
N.T.S.



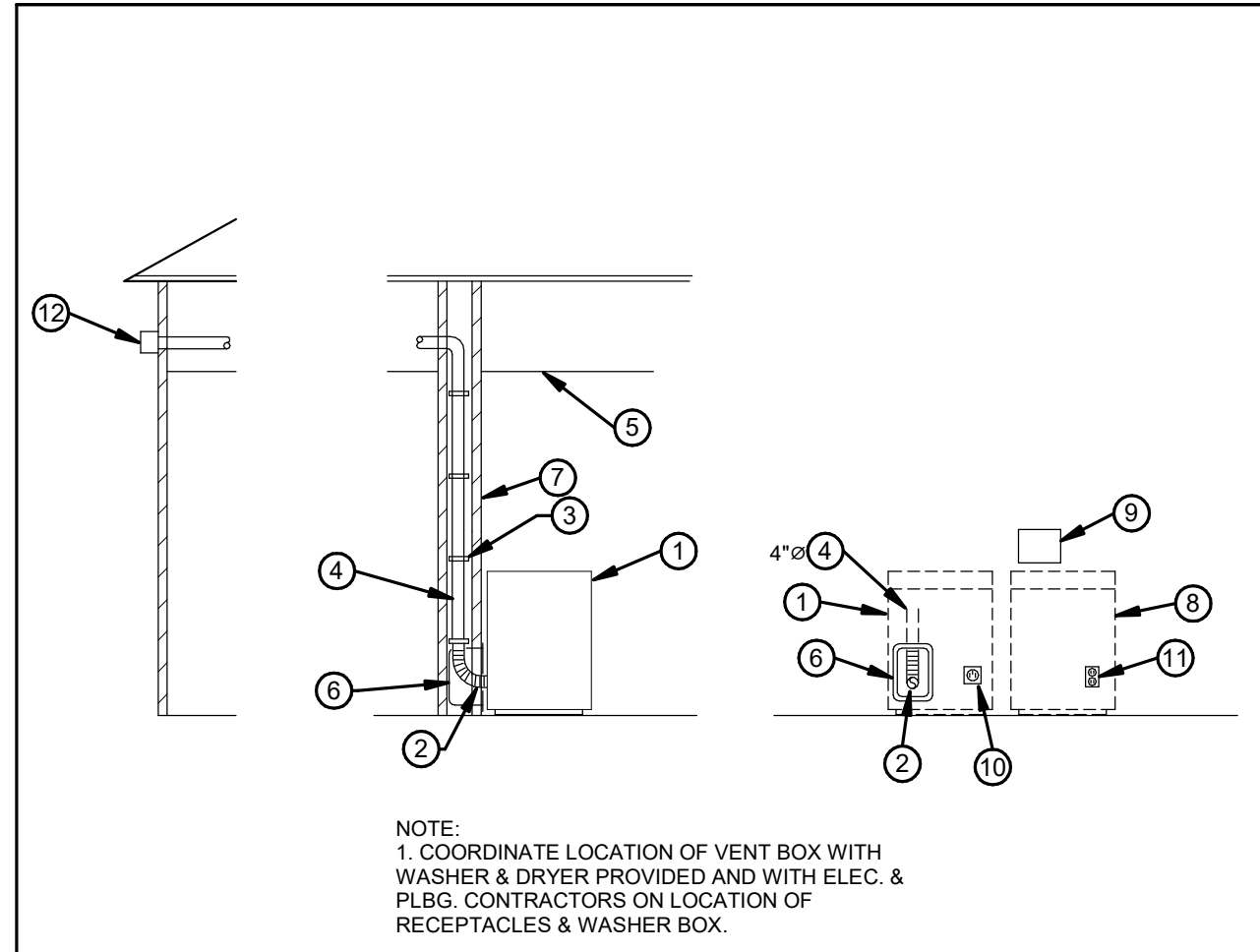
- 8 SUPPLEMENTAL UNISTRUT FRAMING. SPAN BETWEEN ROOF TRUSSES.
- 9 4"Ø TYPE B DOUBLE WALL GAS VENT.
- 10 CLEAN OUT CAP.
- 11 S.S. FLASHING CONE. SEAL PENETRATION THROUGH ROOF WATERTIGHT.
- 12 STORM COLLAR.
- 13 FLUE VENT CAP. BOTTOM OF CAP MINIMUM 24" ABOVE ROOF ON UPSLOPE SIDE.
- 14 SEAL PENETRATION WATER TIGHT.
- 15 ROOF TRUSS.
- 16 NATURAL GAS CONNECTION, SHUTOFF VALVE, AND DIRT LEG BY P.C.
- 17 WALL MOUNTED THERMOSTAT.
- 18 4"Ø INTAKE CAP WITH BIRD SCREEN. FINAL CUSTOM COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.
- 19 DUAL EXHAUST WYE.
- 20 6"Ø TYPE B DOUBLE WALL GAS VENT. 6"Ø FLUE AND VENT CAP.
- 21 CUSTOM PAINT COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.

4 RADIANT HEATER
N.T.S.



- 1 GAS FIRED UNIT HEATER.
- 2 4"Ø COMBUSTION INTAKE DUCT.
- 3 DISCONNECT SWITCH WITH UNIT.
- 4 THREADED ROD HANGER.
- 5 ROOF STRUCTURE.
- 6 SECURE THREADED ROD HANGER TO BAR JOIST.
- 7 NOT USED.
- 8 3"Ø VENT DUCT.
- 9 CLEAN OUT CAP WITH STANDARD VENT DRIP LEG.
- 10 S.S. FLASHING CONE. SEAL PENETRATION THROUGH ROOF WATERTIGHT.
- 11 STORM COLLAR.
- 12 GOOSENECK AND BIRD SCREEN ON FLUE VENT.
- 13 NATURAL GAS CONNECTION, SHUTOFF VALVE, AND DIRT LEG BY P.C.
- 14 4"Ø INTAKE CAP WITH BIRD SCREEN. COLOR BY ARCHITECT, PAINTING BY G.C.
- 15 EXTEND COMBUSTION AIR DUCT TO UNIT HEATER.
- 16 WATERLESS CONDENSATE TRAPS PROVIDED WITH UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATION.
- 17 EXTEND CONDENSATE DRAIN TO FLOOR DRAIN. REFER TO H1.2 FOR LOCATION.
- 18 CUSTOM PAINT COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.

5 GAS FIRED UNIT HEATER
N.T.S.



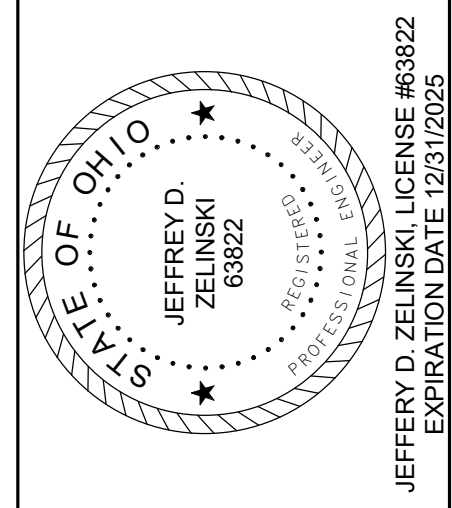
- 1 DRYER.
- 2 FLEXIBLE ALUMINUM DUCT WITH METAL DRAWBAND CONNECTORS.
- 3 STAINLESS STEEL DUCT SUPPORT. SUPPORT AT 4' INTERVALS.
- 4 4"Ø ALUMINUM SPIRAL DUCT. DUCT SHALL NOT BE JOINED WITH SCREWS OR FASTENERS THAT PROTRUDE MORE THAN 1/8" INTO THE INSIDE OF THE DUCT.
- 5 LAY-IN CEILING.
- 6 RECESSED DRYER VENT BOX. FLUSH MTD. IN 6" STUD WALL. 22 GA. ALUMINIZED STEEL WITH FLANGE, 4" DIA. TOP OUTLET, 9"X18"X4"D. INSIDE DIMENSION. FASTEN TO WALL AT FLANGE TO CONNECT TO STUDS. AMERICAN ALDES #99-061 OR OR EQUAL. MOUNT BOTTOM AT 4" ABOVE FLOOR.
- 7 DRYWALL OR MASONRY ENCLOSURE BY G.C.
- 8 WASHER.
- 9 WASHER UTILITY BOX BY P.C.
- 10 220/208 VOLT OUTLET BY E.C.
- 11 DOUBLE DUPLEX OUTLET BY E.C.
- 12 SIDEWALL DRYER BOOSTER FAN. JENCO #SWF-150 OR EQUAL. 120V POWER. FAN ACTIVATES AUTOMATICALLY UPON SENSING DUCT PRESSURE INCREASE FROM DRYER ACTIVATION. MOUNT TO EXTERIOR WALL AND PAINT TO MATCH EXTERIOR WALL COLOR.

4"Ø DUCT SIZE EXCEPT LARGER IF RECOMMENDED BY DRYER MANUFACTURER.

6 DRYER VENT
N.T.S.

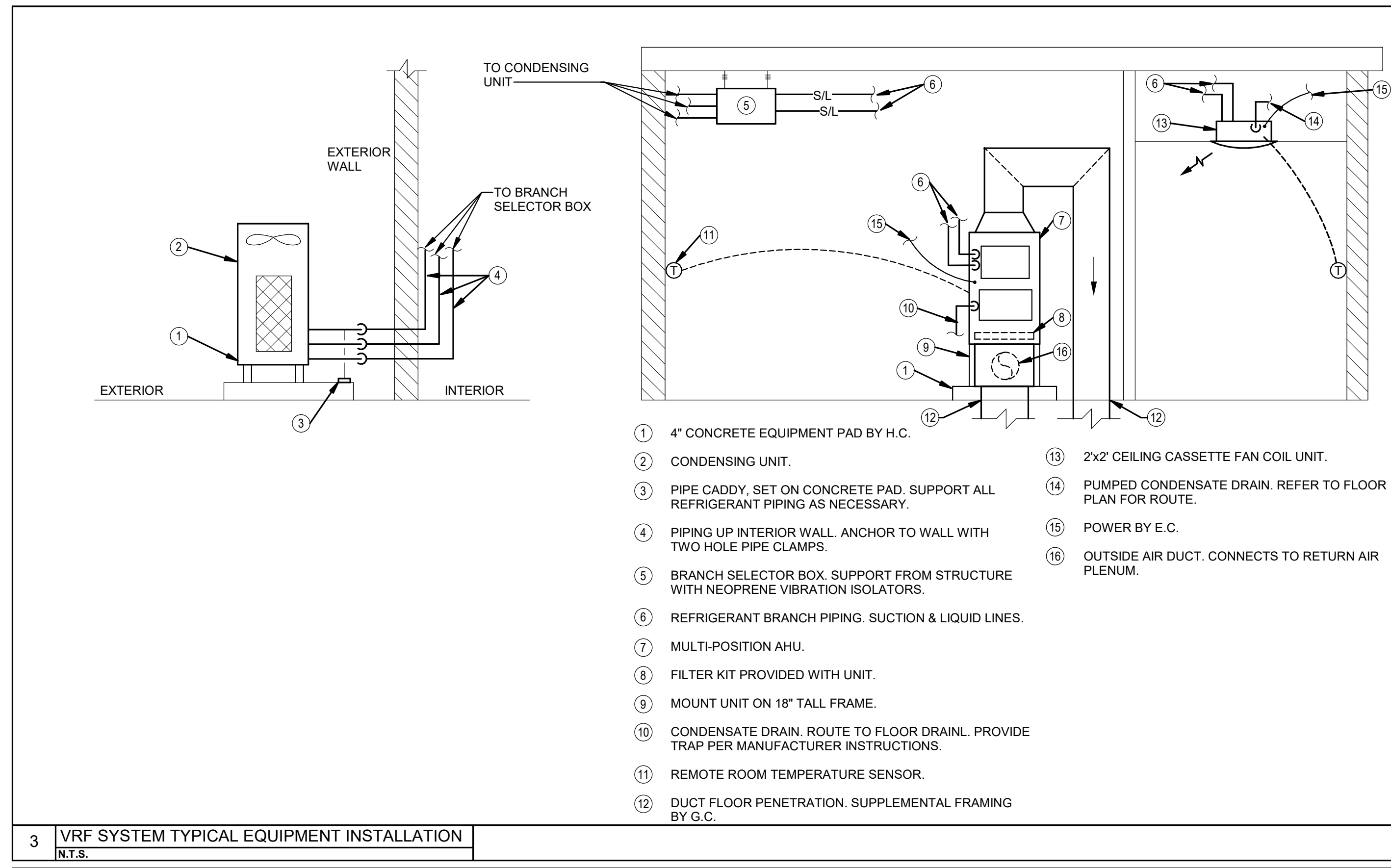
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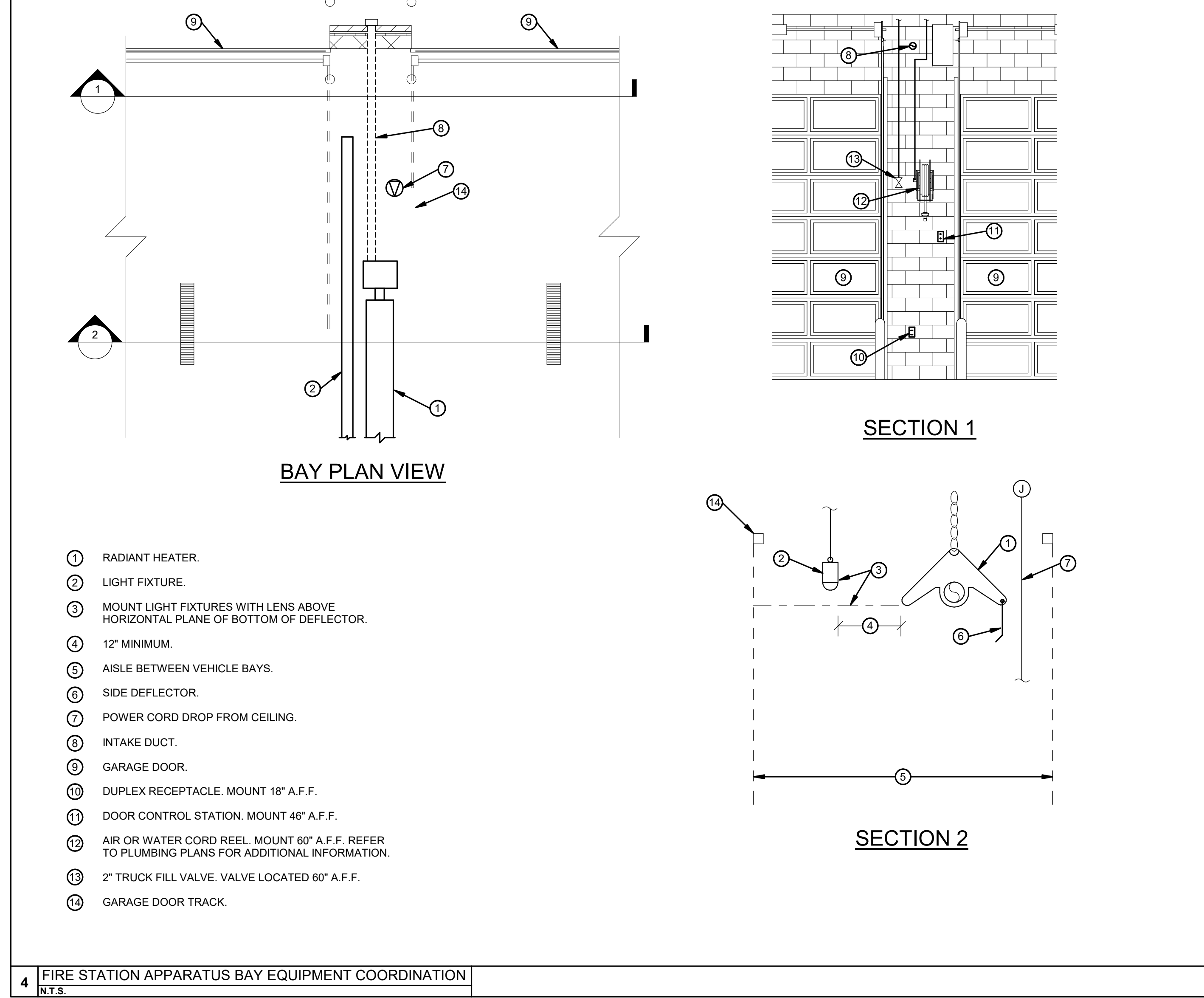


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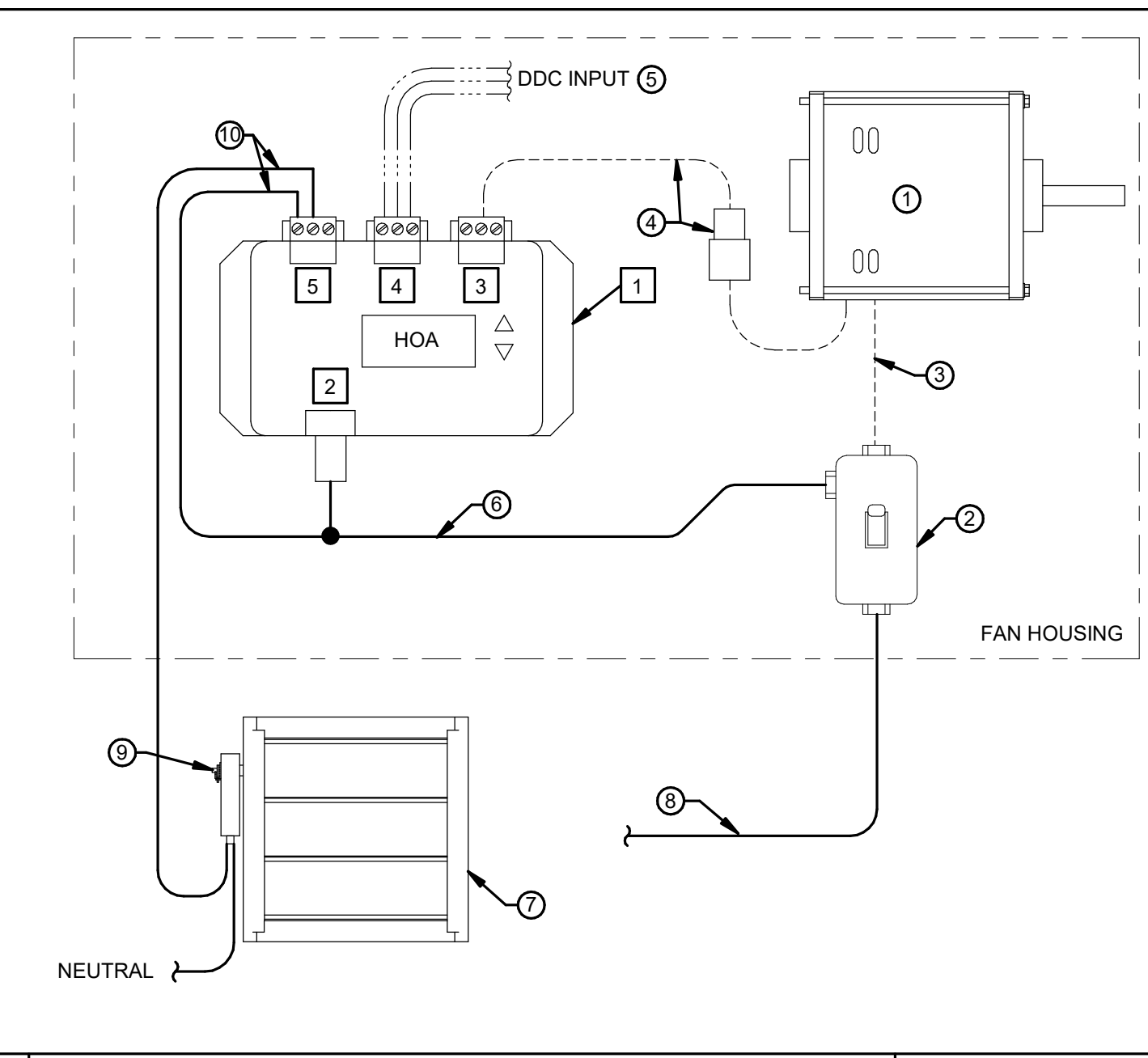
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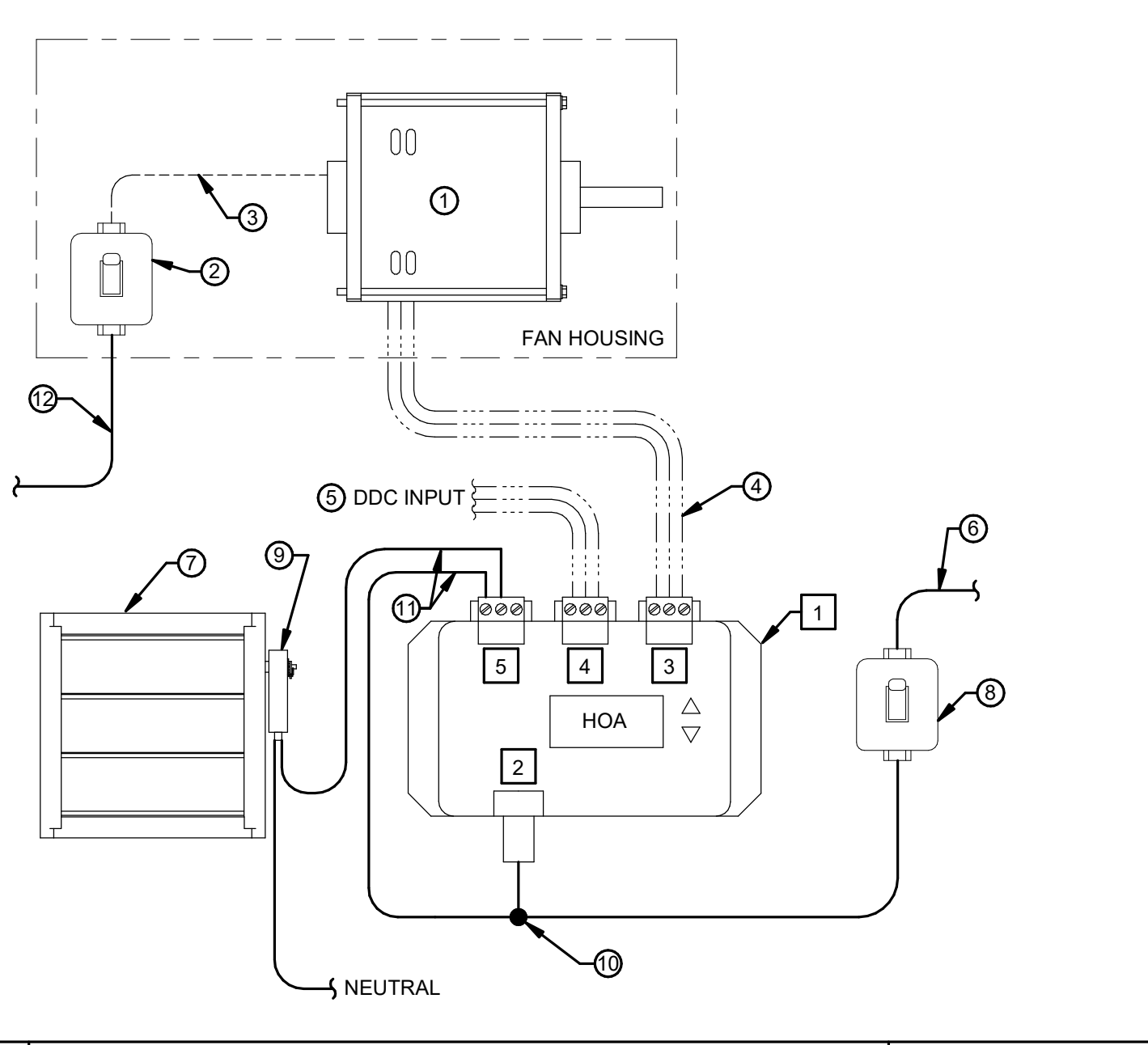
3 VRF SYSTEM TYPICAL EQUIPMENT INSTALLATION
N.T.S.



4 FIRE STATION APPARATUS BAY EQUIPMENT COORDINATION
N.T.S.



1 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S. EF-2, EF-3, EF-4, EF-5, EF-6, EF-7



2 HOA CONTROLLER - THREE PHASE ECM FAN WIRING DIAGRAM
N.T.S. EF-1

- # CONTROLLER NOTES**
- HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
 - 100 - 277V / 1 PHASE POWER TO CONTROLLER.
 - MOTOR CONTROL: 0-10 VDC, 24V, & COM.
 - DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
 - AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V, N.O., N.C., & COM.
- # DETAIL NOTES**
- ECM FAN MOTOR.
 - TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
 - SINGLE PHASE WIRING BY MANUFACTURER.
 - CONTROL WIRING BY MANUFACTURER.
 - INPUT CONTROL WIRING BY H.C.
EF-2 - NO INPUT
EF-3 - NO INPUT
EF-4 - CONSTANT PRESSURE MONITOR
EF-5 - NO INPUT
EF-6 - CONSTANT PRESSURE MONITOR
EF-7 - KITCHEN HOOD
 - LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
 - DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
 - SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
 - 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
 - WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.
- WIRING BY H.C.
— WIRING BY E.C.
- - - WIRING BY MANUFACTURER

- # CONTROLLER NOTES**
- HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
 - 100 - 277V / 1 PHASE POWER TO CONTROLLER.
 - MOTOR CONTROL: 0-10 VDC, 24V, & COM.
 - DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
 - AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V, N.O., N.C., & COM.
- # DETAIL NOTES**
- ECM FAN MOTOR
 - TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
 - THREE PHASE SUPPLY WIRING BY MANUFACTURER.
 - DDC CONTROL WIRING TO FAN BY H.C.
 - INPUT CONTROL WIRING BY H.C. FROM APPARATUS BAY PLC #1.
 - 120V POWER BY E.C.
 - DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
 - TOGGLE DISCONNECT SWITCH BY E.C.
 - 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
 - TAP 120V TO PROVIDE POWER TO BOTH HOA CONTROLLER AND DAMPER ACTUATOR.
 - WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.
 - FAN SUPPLY CIRCUIT BY E.C.
- WIRING BY H.C.
— WIRING BY E.C.
- - - WIRING BY MANUFACTURER

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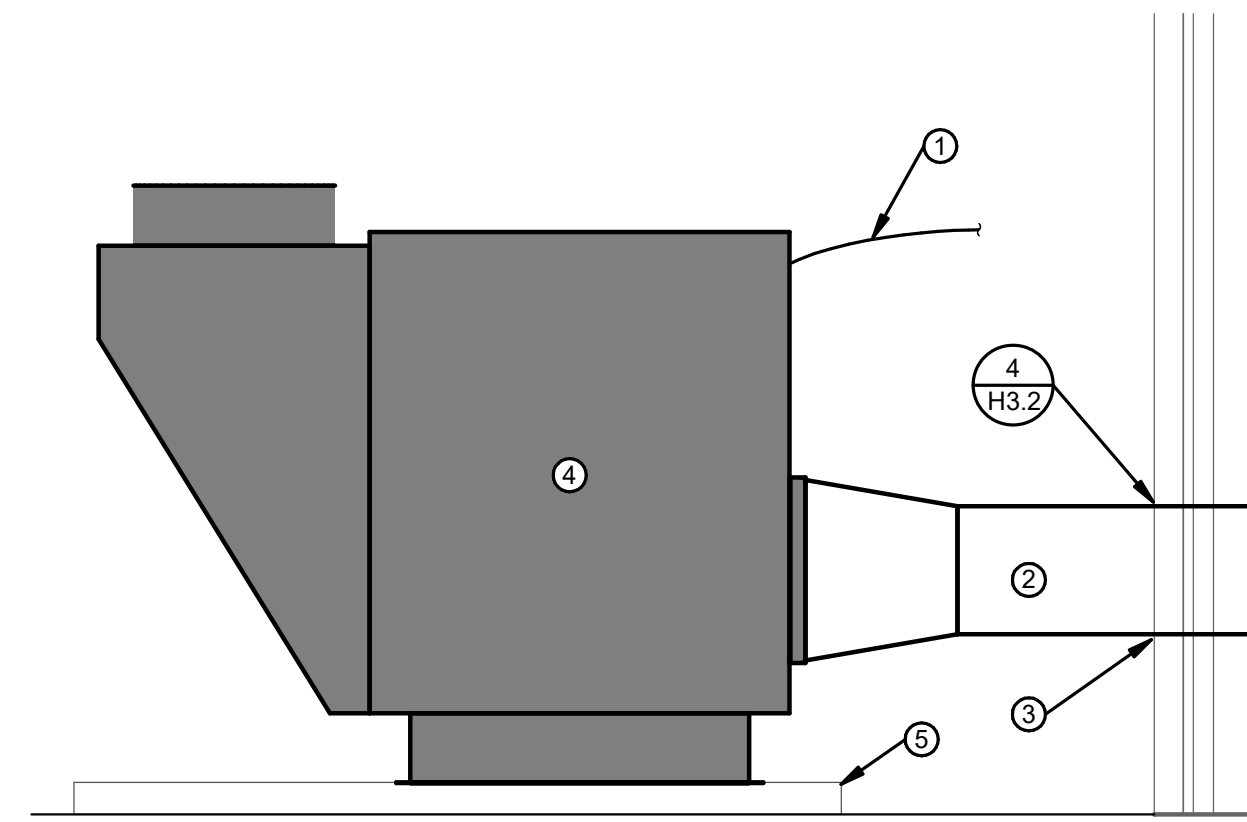
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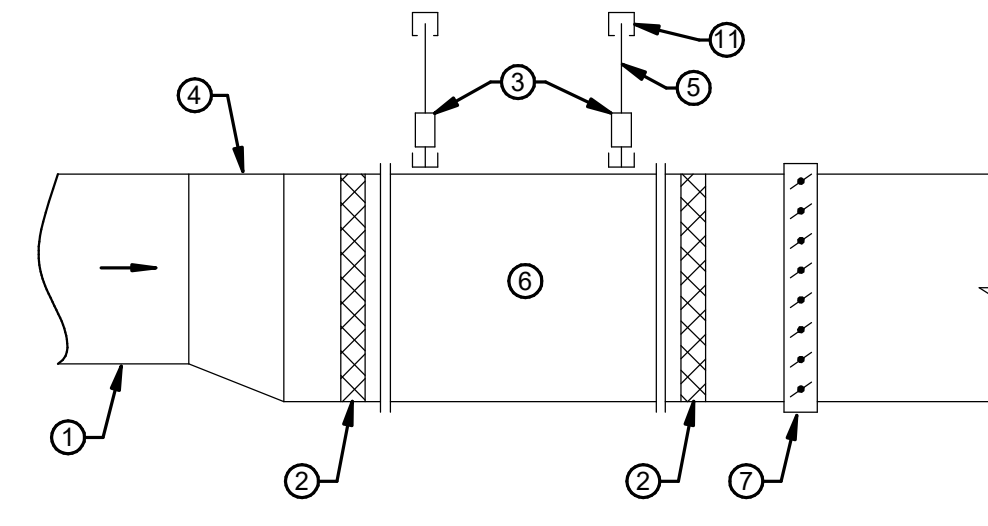
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DETAILS	



- ① ELECTRICAL CONNECTION TO UNIT BY E.C.
- ② SUPPLY DUCT, REFER TO PLANS FOR SIZE.
- ③ SEAL AROUND DUCT PENETRATIONS, TYP.
- ④ PACKAGED DOAS UNIT.
- ⑤ 4" CONCRETE EQUIPMENT PAD BY G.C.

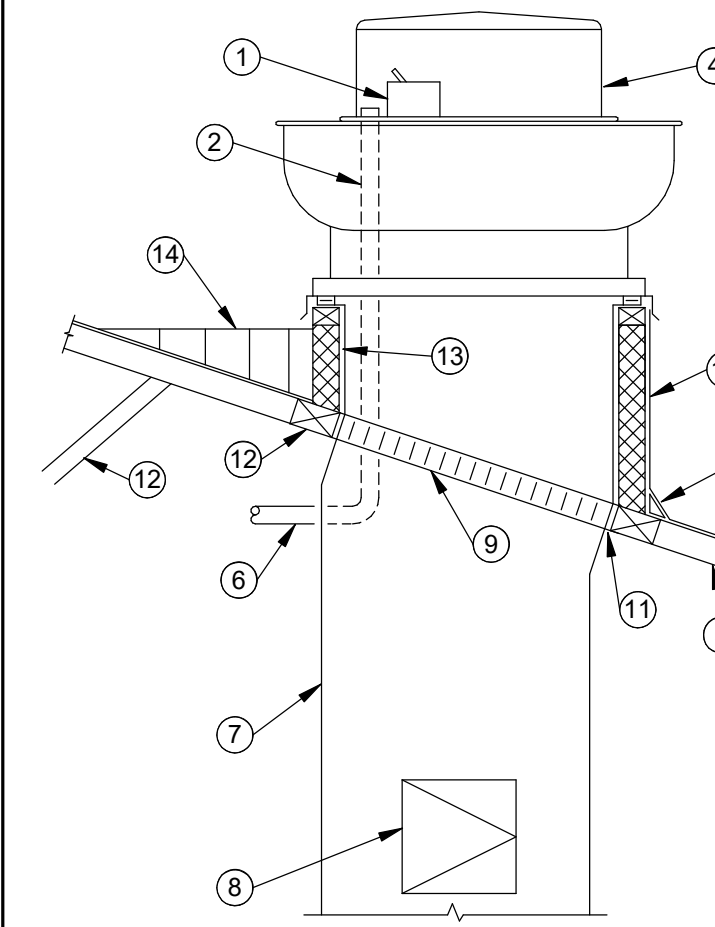
GENERAL NOTE:
REFER TO DETAIL 5, THIS SHEET FOR CONDENSATE DRAIN INSTALLATION.

1 PACKAGED ROOFTOP UNIT CURB INSTALLATION
N.T.S.



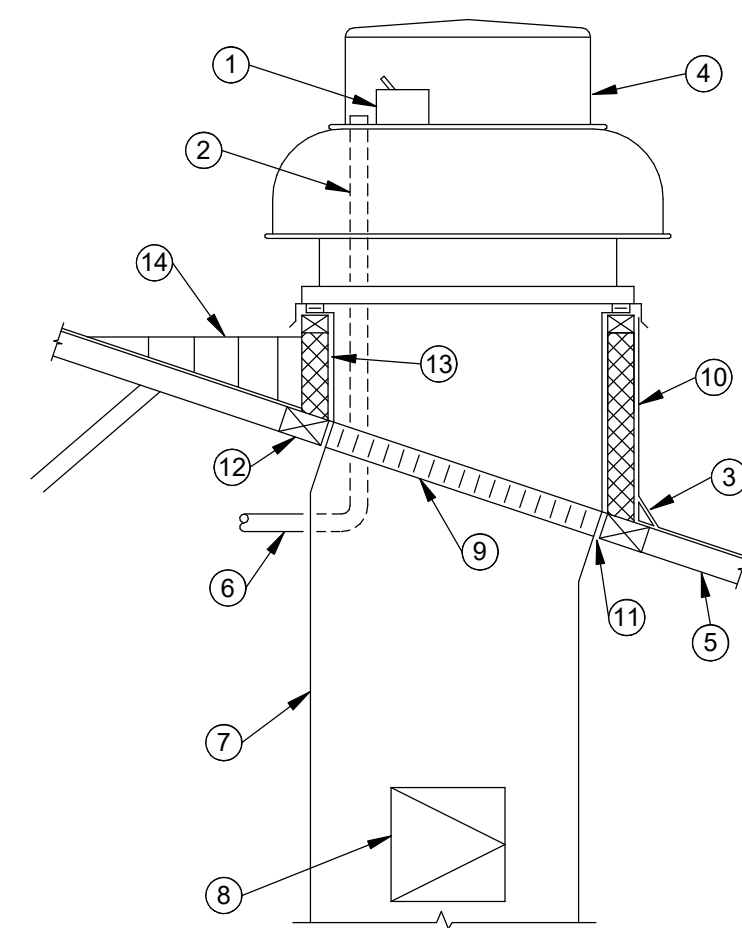
- ① EXHAUST DUCT.
- ② FLEXIBLE DUCT CONNECTION
- ③ NEOPRENE ISOLATOR HANGERS FOR FANS UNDER 1 HP; COMBINATION SPRING/NEOPRENE FOR FANS 1 HP AND LARGER.
- ④ TRANSITION FROM DUCT SIZE TO FAN INLET.
- ⑤ THREADED ROD
- ⑥ EXHAUST FAN.
- ⑦ AUTOMATIC CONTROL DAMPER. REFER TO DETAILS 1 & 2, SHEET H3.5.
- ⑧ SUPPLEMENTAL STEEL ANGLE OR CHANNEL. SPAN ACROSS STRUCTURAL ELEMENTS.

2 INLINE EXHAUST FAN
N.T.S.



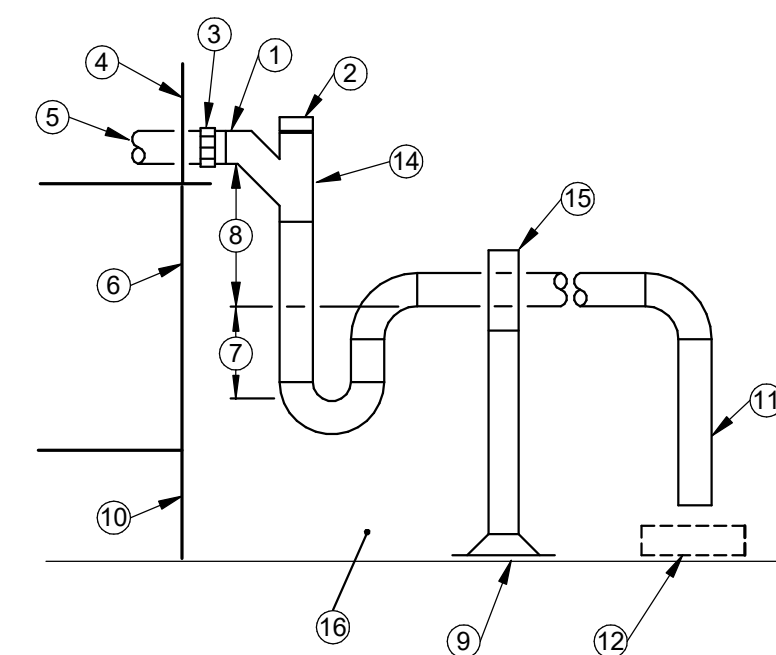
- ① DISCONNECT SWITCH BY FAN MANUFACTURER.
- ② WIRING CONDUIT CHASE BY FAN MANUFACTURER.
- ③ ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
- ④ EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
- ⑤ TRUSS ROOF.
- ⑥ ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
- ⑦ EXHAUST DUCT-REFER TO PLANS.SCHEDULE FOR SIZE.
- ⑧ ACCESS DOOR
- ⑨ 120V MOTORIZED DAMPER FROM MANUFACTURER.
- ⑩ SLOPED ROOF CURB WITH 1.5" INSULATION. INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
- ⑪ FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
- ⑫ SUPPLEMENTAL FRAMING BY G.C.
- ⑬ CURB MINIMUM 14" TALL ON UPSLOPE SIDE.
- ⑭ ROOF CRICKET BY G.C.

3 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S. UPBLAST, TRUSS



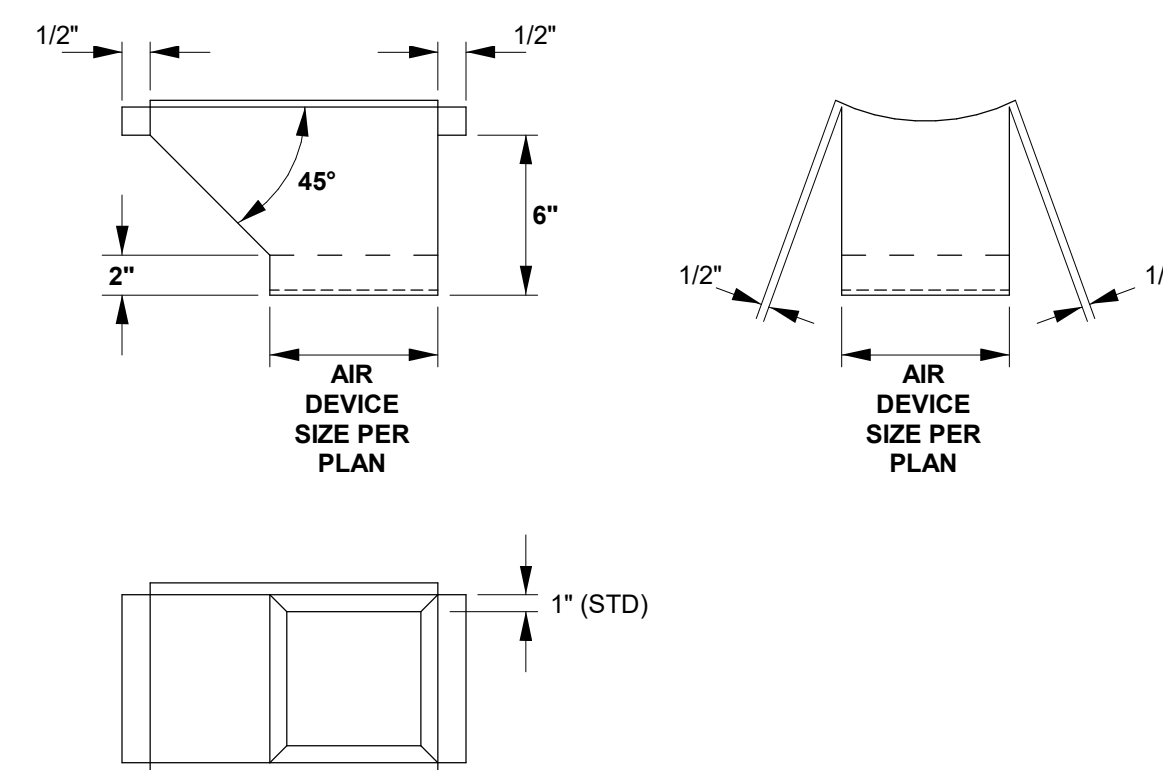
- ① DISCONNECT SWITCH BY FAN MANUFACTURER.
- ② WIRING CONDUIT CHASE BY FAN MANUFACTURER.
- ③ ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
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- ⑪ FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
- ⑫ SUPPLEMENTAL WOOD FRAMING BY G.C.
- ⑬ CURB MINIMUM 14" TALL ON UPSLOPE SIDE.
- ⑭ ROOF CRICKET BY G.C.

4 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S. DOWNBLAST, TRUSS

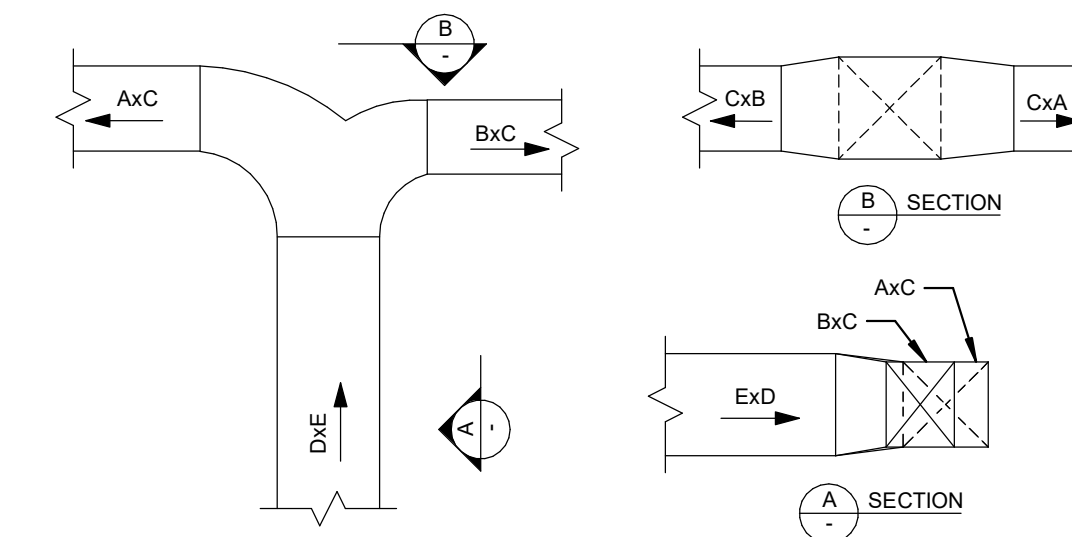


- ① DRAIN PIPE. SAME SIZE AS UNIT OUTLET.
- ② CLEANOUT PLUG.
- ③ UNION.
- ④ SIDE OF DOAS UNIT.
- ⑤ FROM DRAIN PAN.
- ⑥ BASE OF UNIT.
- ⑦ 1/2 OF NO. 8 HEIGHT.
- ⑧ 1" + T.S.P.
- ⑨ GRADE
- ⑩ 4" CONCRETE EQUIPMENT PAD.
- ⑪ OPEN DRAIN - 1" AIR GAP.
- ⑫ 12"x12"x1" THICK CONCRETE SPLASH BLOCK.
- ⑬ ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.
- ⑭ DRAINAGE WYE FITTING.

5 DOAS COOLING COIL CONDENSATE PIPING
N.T.S.



6 RECTANGULAR LO-LOSS TAP
N.T.S. ROUND MAIN - RECTANGULAR TAP



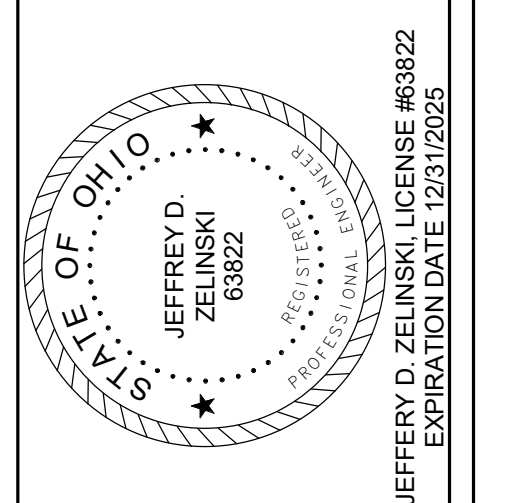
- NOTES:
- DIMENSIONS A, B, C, D, AND E AS INDICATED ON DRAWINGS.
 - TRANSITIONS SHOWN CONCENTRIC IN PLAN, MAY BE FLAT ON EITHER SIDE. TRANSITION SHOWN FLAT ON TOP IN SECTION, MAY BE FLAT ON BOTTOM OR CONCENTRIC. TRANSITION DUCT AS FIELD CONDITIONS DICTATE.
 - SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.

7 RECTANGULAR TEE REDUCING Y-BRANCHES
N.T.S.

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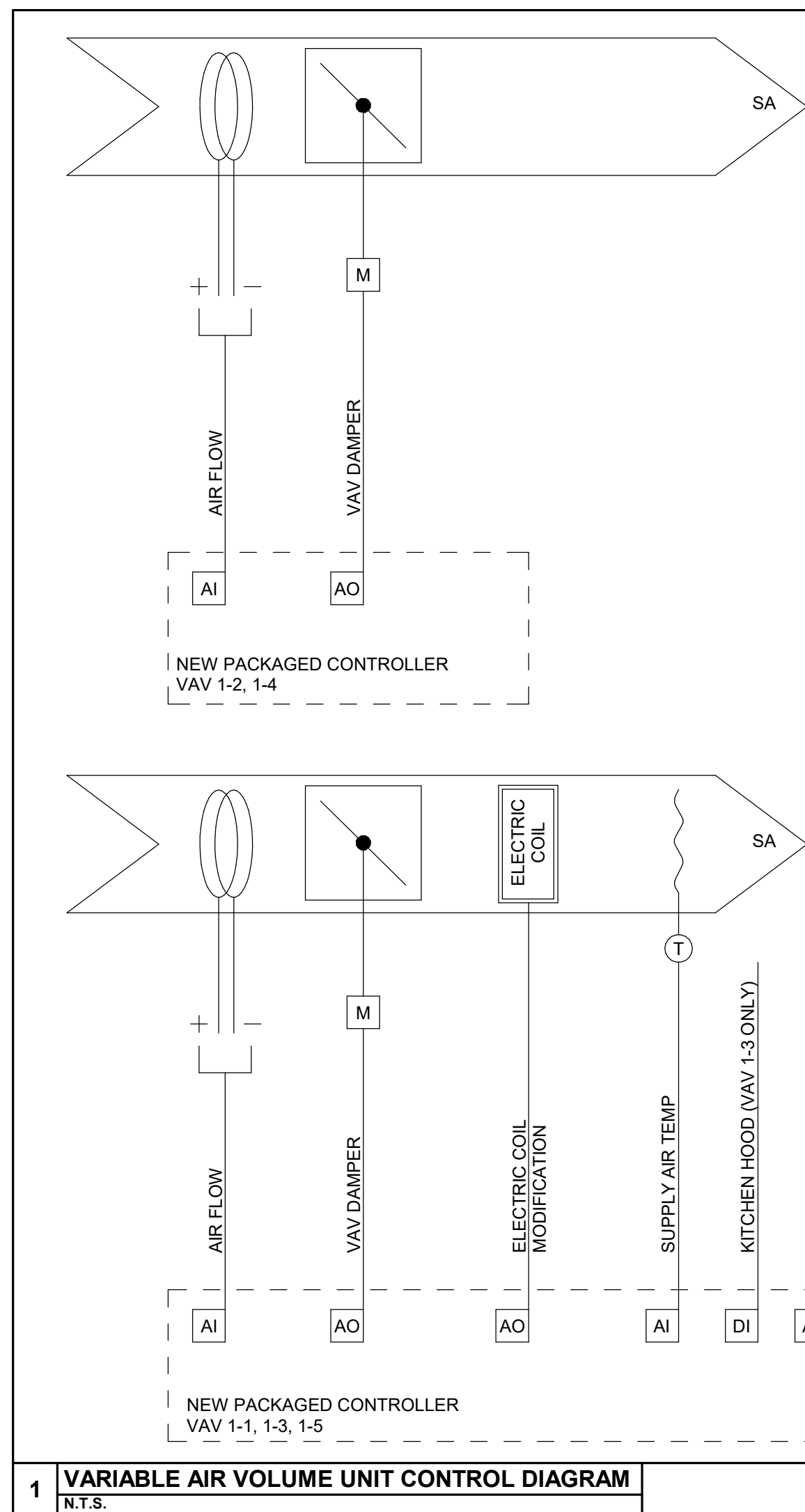
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DETAILS

H3.6

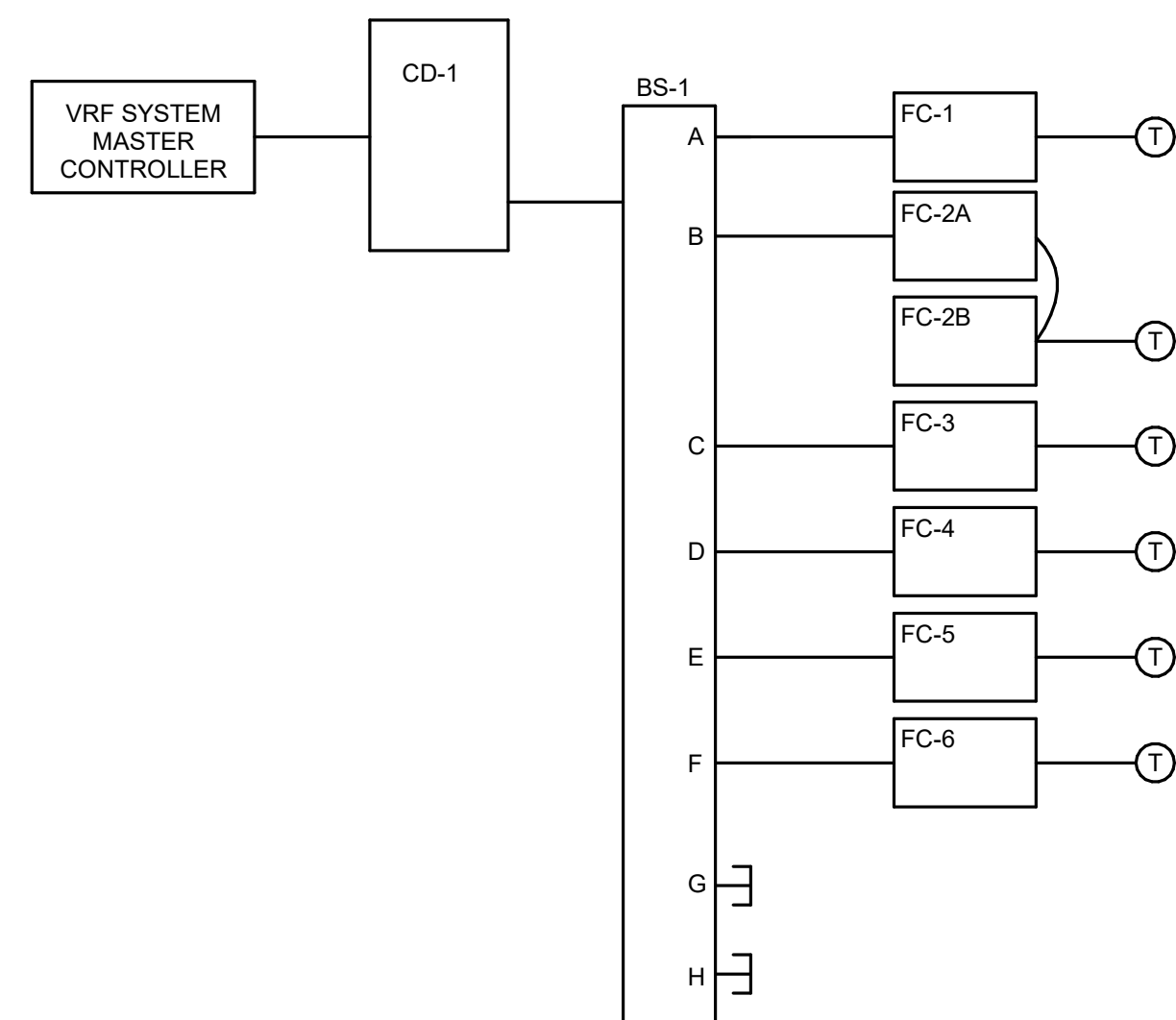
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 233-3801 - Fax: (937) 233-3849
PROJECT # 23015



1 VARIABLE AIR VOLUME UNIT CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION

- A. VARIABLE AIR VOLUME (VAV) AIR TERMINAL UNITS ARE THE FOLLOWING TYPE:
CONSTANT VOLUME, NO REHEAT: 1-2, 1-4
CONSTANT VOLUME, REHEAT: 1-1, 1-3, 1-5
- B. THE VAV BOX MANUFACTURER SHALL INCLUDE PNEUMATIC FLOW TAPS FROM THE AIR FLOW SENSOR ON THE BOX INLET AND AN INTEGRAL DAMPER WITH PROTRUDING SHAFT. ALL OTHER CONTROL COMPONENTS SHALL BE FURNISHED BY THE T.C.
- C. CONSTANT VOLUME, NO REHEAT CONTROL - TERMINAL UNIT SHALL MAINTAIN A CONSTANT AIR FLOW VOLUME.
- D. CONSTANT VOLUME, REHEAT CONTROL - TERMINAL UNIT SHALL MAINTAIN A CONSTANT AIR FLOW VOLUME. ELECTRIC HEATING COIL SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE AT SETPOINT. PROVIDE A 2 DEG. F DEADBAND. WHEN THE ROOM TEMPERATURE RISES ABOVE THE HEATING SETPOINT THE ELECTRIC COIL SHALL SHUT OFF.
- E. KITCHEN HOOD CONTROLS: UNIT 1-3 SHALL ONLY OPERATE WHEN THE KITCHEN HOOD IS ACTIVE. THE KITCHENHOOD IS PROVIDED WITH AN EXTERNAL DRY CONTACT AND A CONNECTION BETWEEN THE DRY CONTACT AND VAV 1-3 SHALL BE PROVIDED BY THE T.C. UPON HOOD ACTIVATION, VAV UNIT 1-3 SHALL OPERATE AT ITS CONSTANT VOLUME SETPOINT. WHEN THE HOOD SHUTS OFF, VAV 1-3 SHALL STOP OPERATING AND MODULATE TO 100% CLOSED.
- F. DISCHARGE AIR TEMPERATURE SENSOR - PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR IN THE SUPPLY DUCT (FIELD INSTALLED BY THE TEMPERATURE CONTROL SUBCONTRACTOR) FOR EACH REHEAT BOX FOR CONTROL, MONITORING AND TROUBLE SHOOTING PURPOSES. THE SENSOR SHALL BE A PRECISION THERMISTOR TYPE, WITH ACCURACY OF + OR - 0.5 DEG. F., MAXIMUM.
- G. TERMINAL UNITS THAT SHARE A ROOM TEMP. SENSOR SHALL CONTROL IN UNISON PER THE ABOVE SEQUENCE.



2 VRF SYSTEM CONTROL DIAGRAM

OPERATION

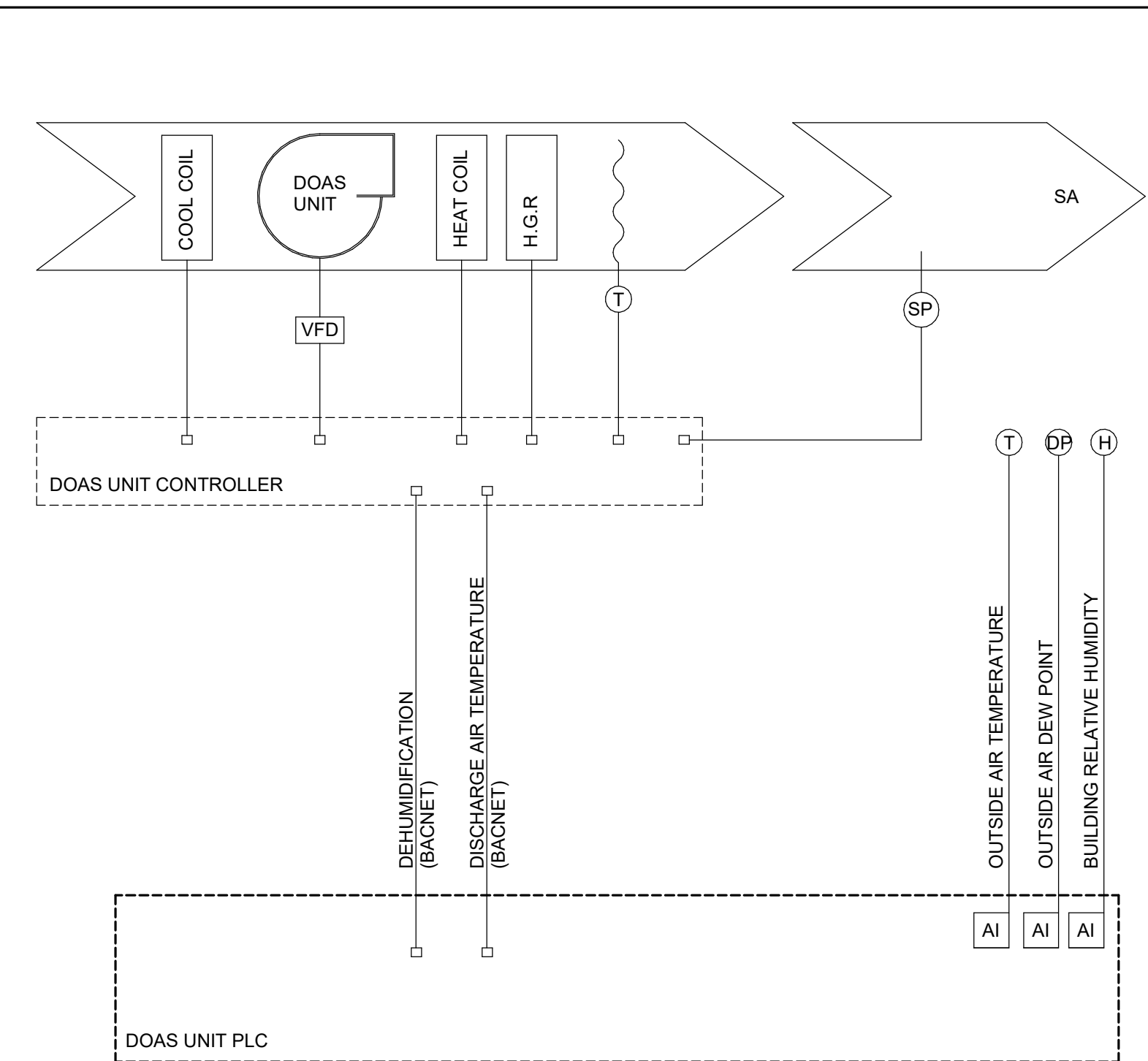
THE VRF SYSTEM SHALL BE CONTROLLED THROUGH THE MASTER CONTROLLER PROVIDED WITH THE SYSTEM. THE BUILDING IS OCCUPIED 24/7/365.

BRANCH SELECTOR BOX 1 - BS-1

- HEATING SETPOINT: 68°F (ADJ)
- COOLING SETPOINT: 72°F (ADJ)

CONTROLS GENERAL NOTES

1. THERE IS NO CENTRAL, GRAPHICAL DIRECT DIGITAL CONTROL (DDC) SYSTEM BEING PROVIDED FOR THE BUILDING. EQUIPMENT SHALL BE CONTROLLED THROUGH CONTROLLERS PROVIDED WITH THE EQUIPMENT AND/OR INDIVIDUAL PROGRAMABLE LOGIC CONTROLLERS. CONTROL DIAGRAMS PROVIDED INDICATE HOW EACH SYSTEM SHALL OPERATE.
2. REQUIRED PROGRAMABLE LOGIC CONTROLLERS SHALL BE EQUAL TO DISTECH CONTROL #ECB-253.
3. PROVIDE ALL REQUIRED CONTROL WIRING AND LOW VOLTAGE POWER DEVICES REQUIRED TO ACHIEVE THE SPECIFIED SYSTEM CONTROLS.



3 DOAS UNIT CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION

UNIT INFORMATION:
THE DOAS UNIT PROVIDES CODE REQUIRED VENTILATION TO THE LIVING QUARTERS. THE UNIT SHALL OPERATE 24/7. BACNET CONNECTION SHALL BE UTILIZED TO CONTROL DISCHARGE AIR TEMPERATURE SETPOINT AND HUMIDITY CONTROLS.

DISCHARGE AIR TEMPERATURE:
THE DOAS UNIT SHALL PROVIDE THE REQUIRED HEATING OR COOLING TO MEET THE SUPPLY AIR TEMPERATURE SETPOINT. THE DOAS UNIT SHALL USE AN ECONOMIZER MODE IF OUTSIDE AIR DRYBULB AND WETBULB TEMPERATURE ARE APPROPRIATE TO MEET THE SUPPLY AIR TEMPERATURE SETPOINT.

SUPPLY AIR TEMPERATURE SHALL CHANGE DEPENDING ON THE OUTDOOR AIR DRYBULB AND DEWPOINT TEMPERATURES ACCORDING TO THE FOLLOWING SCENARIOS:

SCENARIO 1 - OUTSIDE AIR DEW POINT TEMPERATURE GREATER THAN OR EQUAL TO 52°F.
THE SUPPLY AIR TEMPERATURE SETPOINT OF THE DOAS UNIT SHALL BE 52°F DB / 52°F WB.

SCENARIO 2 - OUTSIDE AIR DEW POINT TEMPERATURE LESS THAN 52°F & DRYBULB TEMPERATURE IS BETWEEN 65°F & 72°F.
THE SUPPLY AIR TEMPERATURE SETPOINT SHALL EQUAL THE OUTDOOR AIR DRYBULB TEMPERATURE.

SCENARIO 3 - OUTSIDE AIR DEW POINT TEMPERATURE LESS THAN 52°F & DRYBULB TEMPERATURE GREATER THAN 72°F.
THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 72°F.

SCENARIO 4 - OUTSIDE AIR DEW POINT TEMPERATURE LESS THAN 52°F & DRYBULB TEMPERATURE LESS THAN 65°F.
THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 72°F.

FAN OPERATION:
THE DOAS UNIT FAN SHALL MODULATE TO MEET THE DUCT STATIC PRESSURE SENSOR SETPOINT AS DETERMINED BY THE BALANCING CONTRACTOR. REFER TO FLOOR PLANS FOR STATIC PRESSURE SENSOR LOCATION.

DEHUMIDIFICATION MODE:
THE HOT GAS REHEAT COIL SHALL MODULATE TO MAINTAIN THE BUILDING RELATIVE HUMIDITY SETPOINT OF 50% RH (ADJ.).

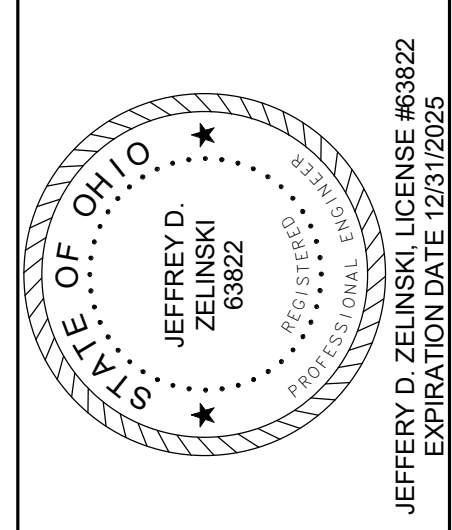
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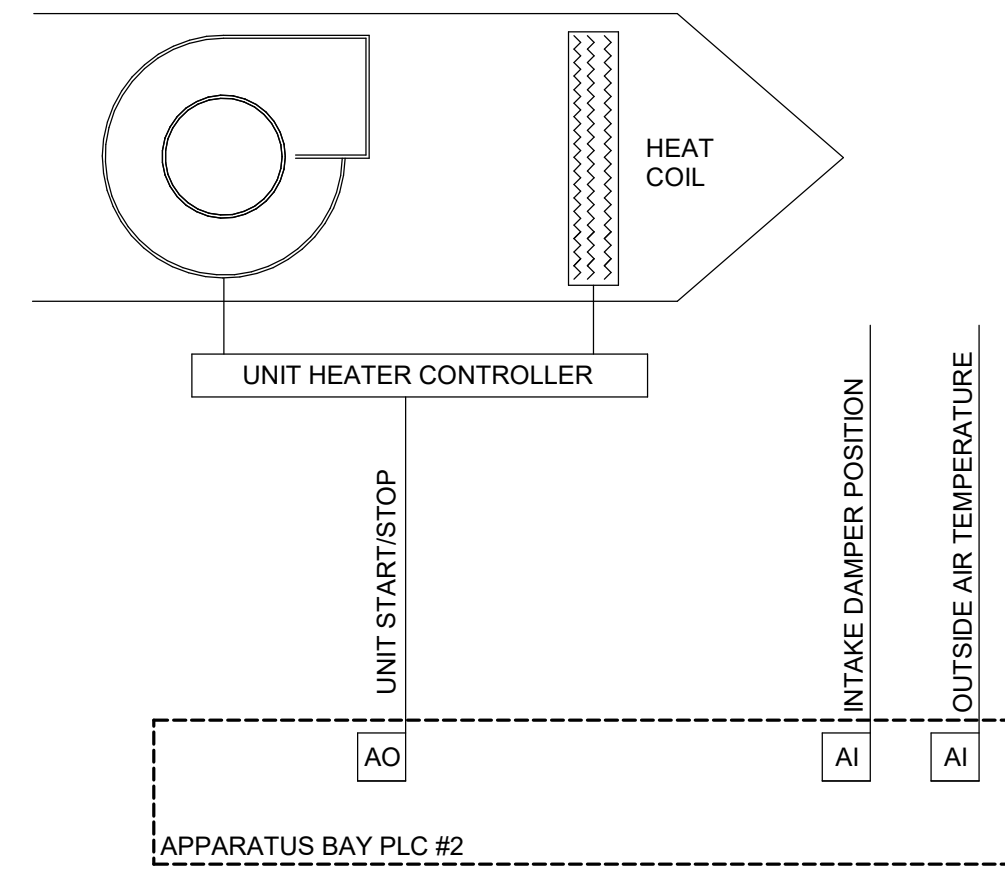
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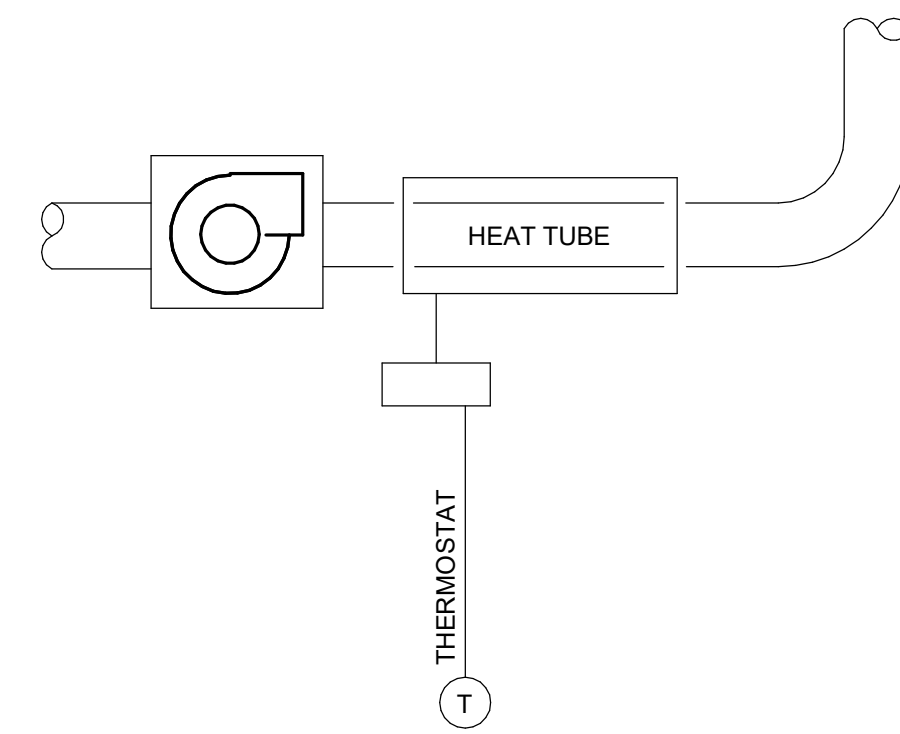
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DJZ	DJZ
CONTROLS	



SEQUENCE OF OPERATION

THE GAS-FIRED MODULATING HEATER SHALL OPERATE IN CONJUNCTION WITH THE INTAKE DAMPER TO PREHEAT INDUCED MAKE-UP AIR.
 THE GAS FIRED UNIT HEATER SHALL BE OFF WHEN THE INTAKE DAMPER IS CLOSED.
 WHEN THE RESPECTIVE INTAKE DAMPER IS OPEN, AND THE OUTSIDE AIR TEMPERATURE IS BELOW SETPOINT (ADJ.), THE BURNER SHALL FIRE.
 TEMPERATURE SETPOINT: 55 DEG. F. (ADJ.)

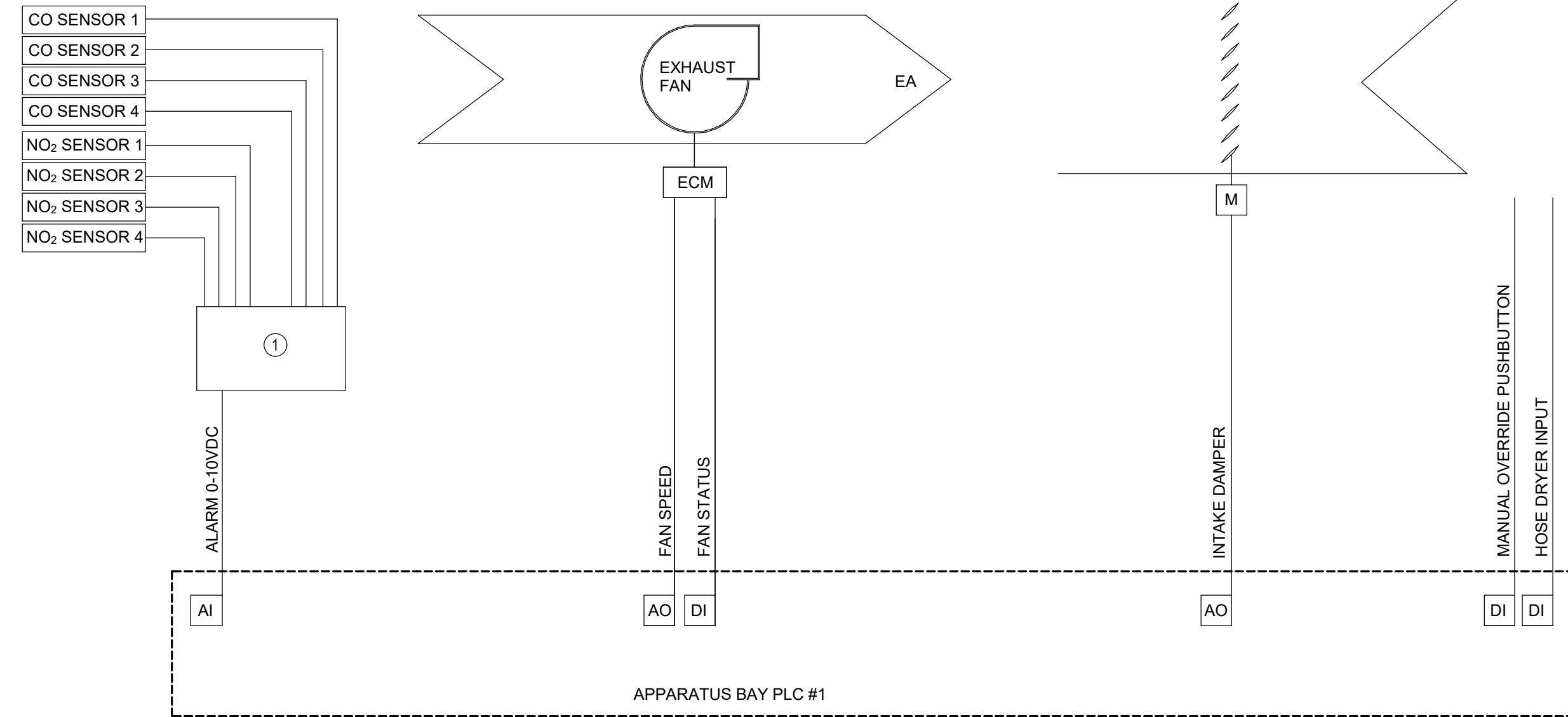
1 GAS-FIRED UNIT HEATER CONTROL DIAGRAM
N.T.S.



SEQUENCE OF OPERATION

A. THE GAS-FIRED RADIANT HEATER SHALL OPERATE TO MAINTAIN THEIR RESPECTIVE THERMOSTAT. THERMOSTATS PROVIDED WITH UNIT.

2 GAS-FIRED RADIANT HEATERS CONTROL DIAGRAM
N.T.S.



SEQUENCE OF OPERATION

THE EXHAUST FAN SHALL BE NORMALLY OFF.

A PROGRAMMABLE LOGIC CONTROLLER SHALL BE PROVIDED TO RECEIVE INPUT FROM THE GAS DETECTION SYSTEM AND OUTPUT A SIGNAL TO VARY THE FAN SPEED. IN ADDITION, A MOMENTARY PUSHBUTTON IS PROVIDED TO START THE FAN.

EF-1: 4,680 CFM MAX.

CO/NO2 SENSOR CONTROL

THE APPARATUS BAY'S CO/NO2 MONITORING SYSTEM SHALL BE PROGRAMMED TO THE FOLLOWING ALARM LEVELS.

- ALARM LEVELS:
- NO ALARM: CO (<34 PPM) AND NO2 (<2.5 PPM)
 - ALARM LEVEL 1: CO (35 -50 PPM) OR NO2 (2.5 -2.8 PPM)
 - ALARM LEVEL 2: CO (>50 PPM) OR NO2 (>2.8 PPM)

- FAN AIRFLOW:
- NO ALARM: MINIMUM AIRFLOW
 - ALARM LEVEL 1: 50% OF MAXIMUM AIRFLOW
 - ALARM LEVEL 2: MAXIMUM AIRFLOW

WHEN THE FAN IS INDEXED TO EITHER THE 50% OR MAXIMUM AIRFLOW, THE FAN SHALL RUN FOR A MINIMUM OF 30 MINUTES AT THE RESPECTIVE AIRFLOW. AT THE END OF THE 30 MINUTE TIME PERIOD, IF THE CO/NO2 ALARM LEVEL HAS NOT LOWERED INTO THE 'NO ALARM' RANGE, THE TIMER SHALL RESET TO RUN ANOTHER 30 MINUTES.

MANUAL PUSHBUTTON:
THE FAN SHALL OPERATE AT 50% MAX. AIRFLOW. FOR 30 MIN. (ADJ.).

CONTROL PRIORITY:
THE CO/NO2 ALARM SHALL ALWAYS HAVE PRIORITY CONTROL OF THE EXHAUST FAN. UPON RECEIVING AN ALARM THE FAN SHALL OPERATE AT THE RESPECTIVE ALARM AIRFLOW AND RESET ITS RUN TIMER. THE MOMENTARY PUSHBUTTON SHALL NOT OVERRIDE THE FAN SPEED AND RUN TIMER IF THERE IS AN ALARM.

INTAKE CONTROL DAMPER
• THE INTAKE DAMPER SHALL OPEN TO 100% WHEN THE RESPECTIVE APPARATUS BAY EXHAUST FAN IS OPERATING.

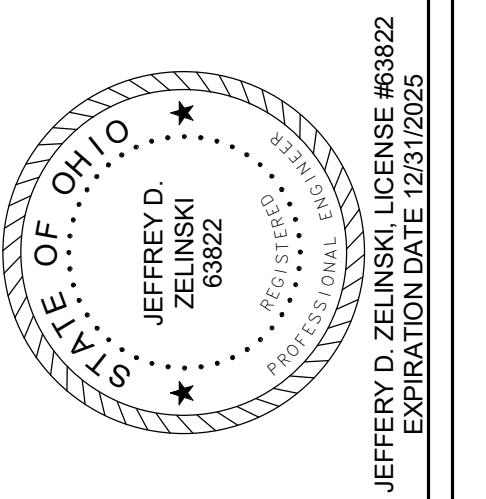
① CO/NO2 CONTROL PANEL BY T.C. REFER TO H1.1 FOR MOUNTING LOCATION AND REFER TO SPECIFICATION FOR EQUIPMENT INFORMATION.

3 APPARATUS BAY CONTROL DIAGRAM - EF-1 & INTAKE DAMPER
N.T.S.

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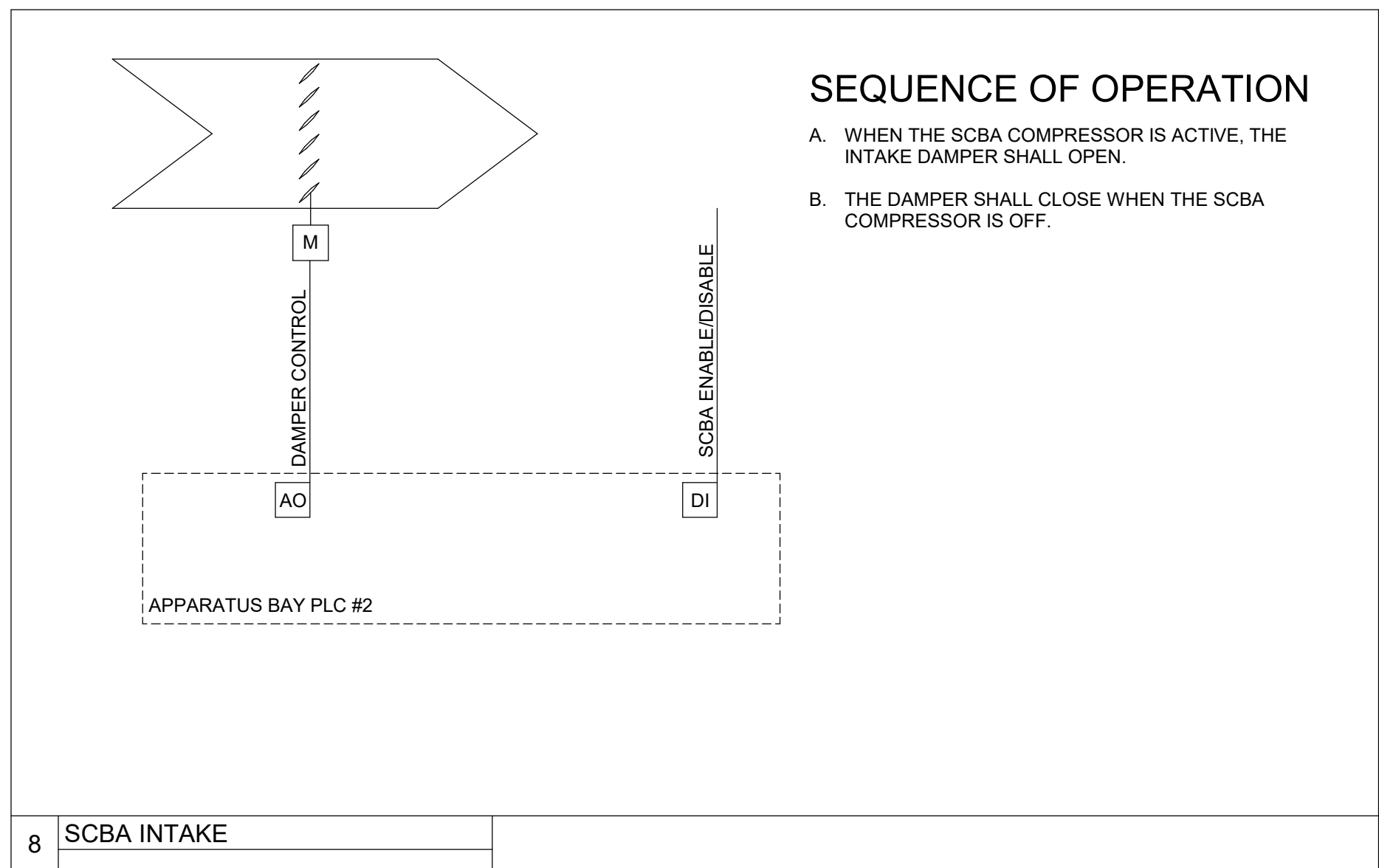
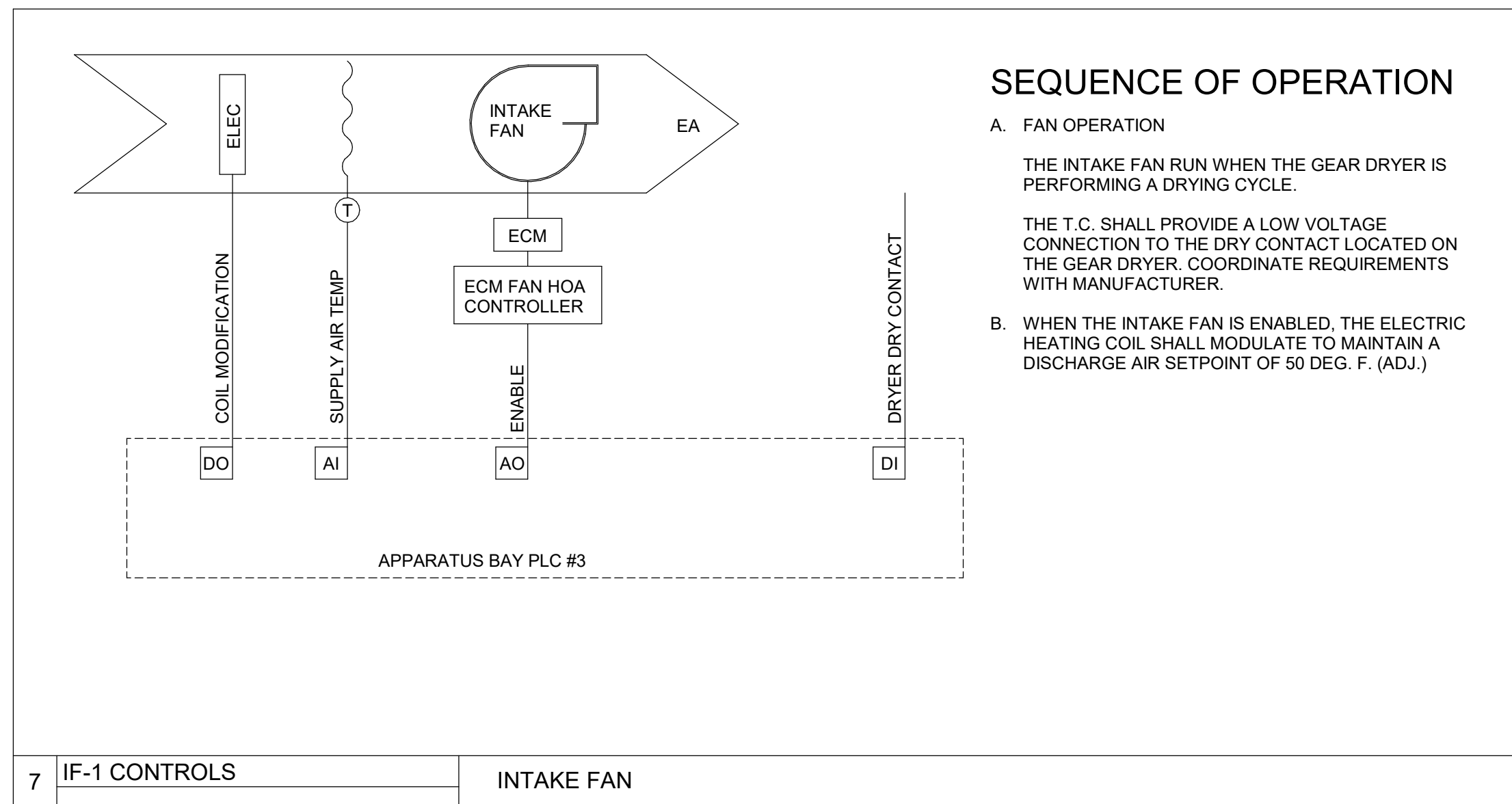
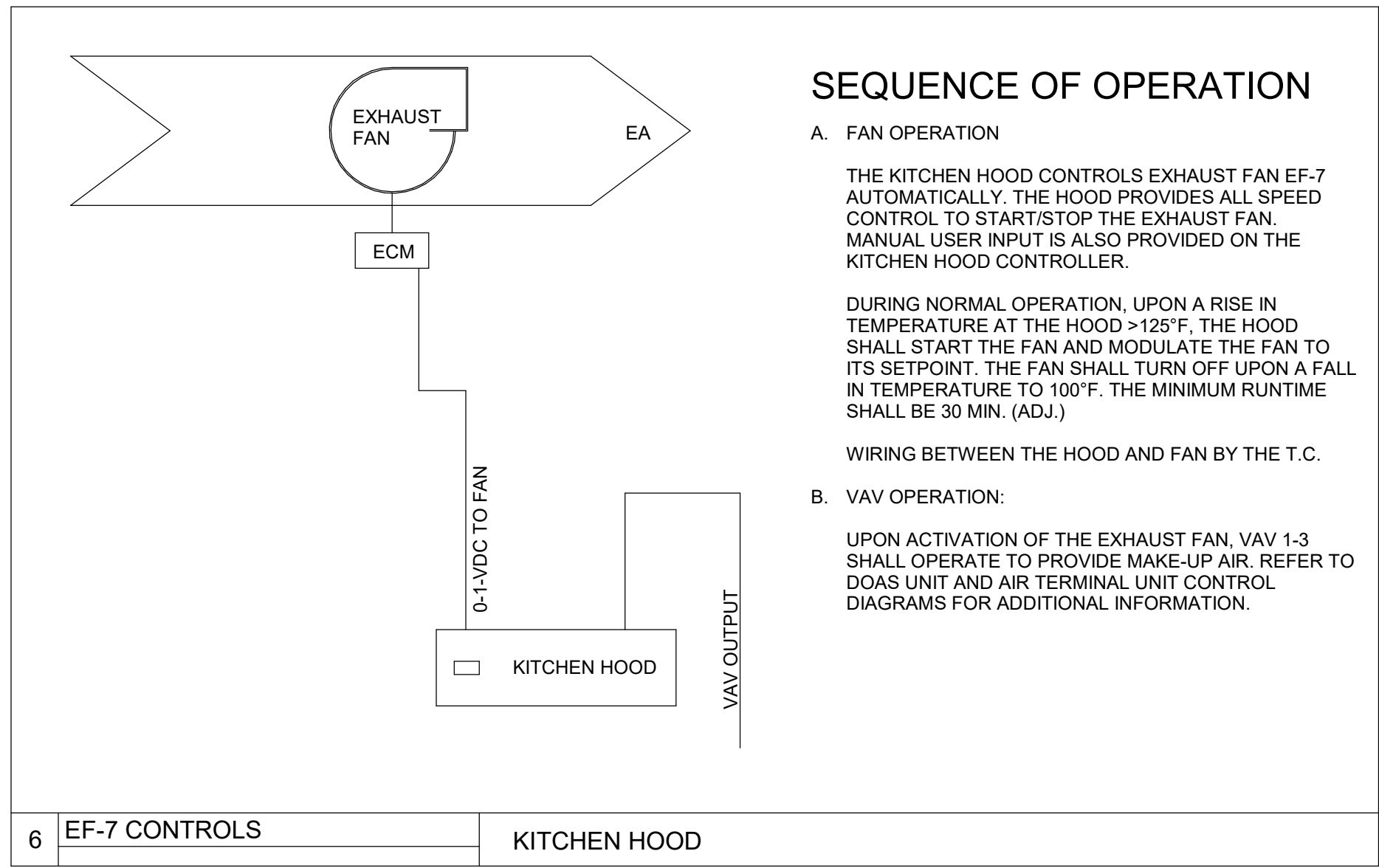
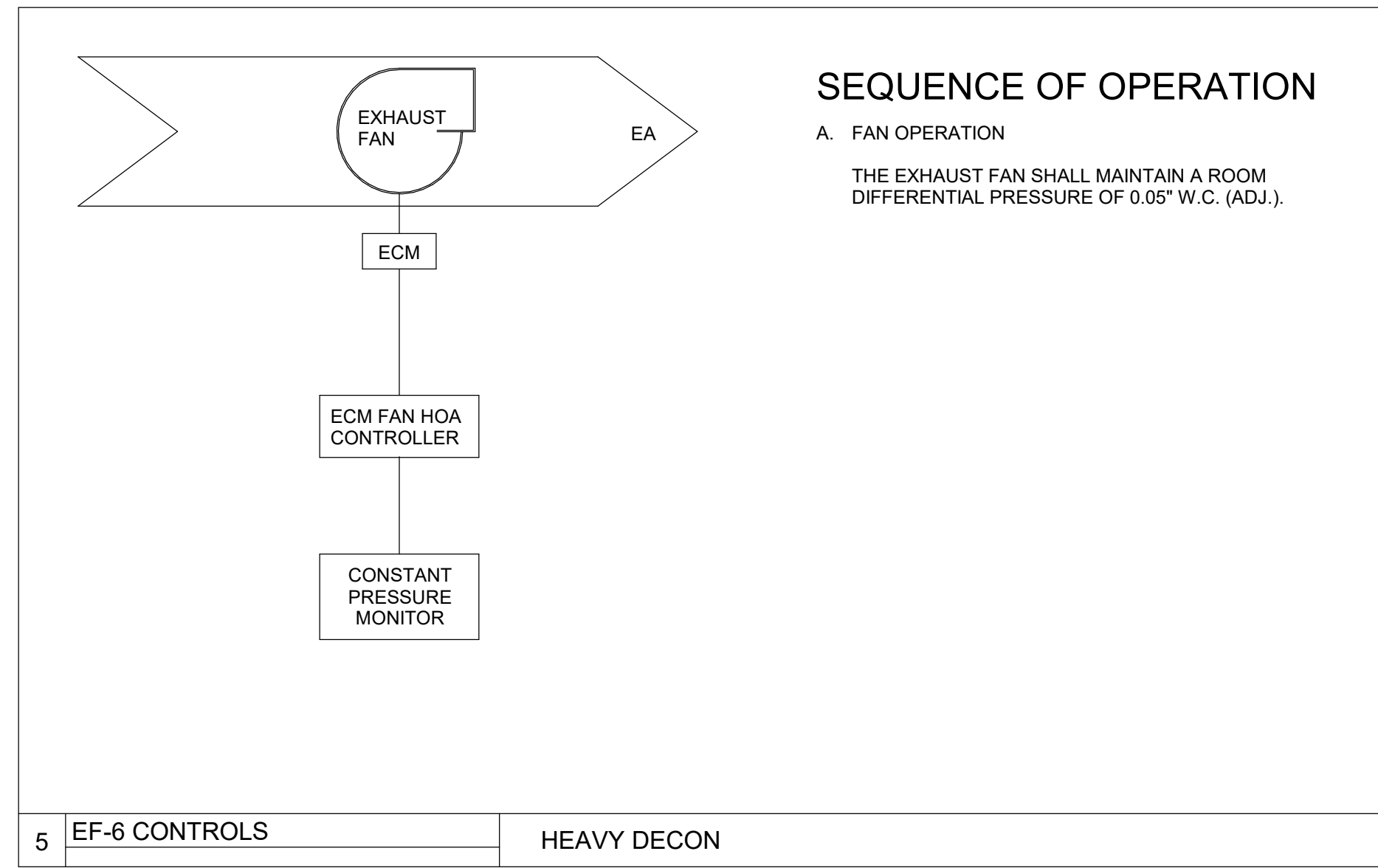
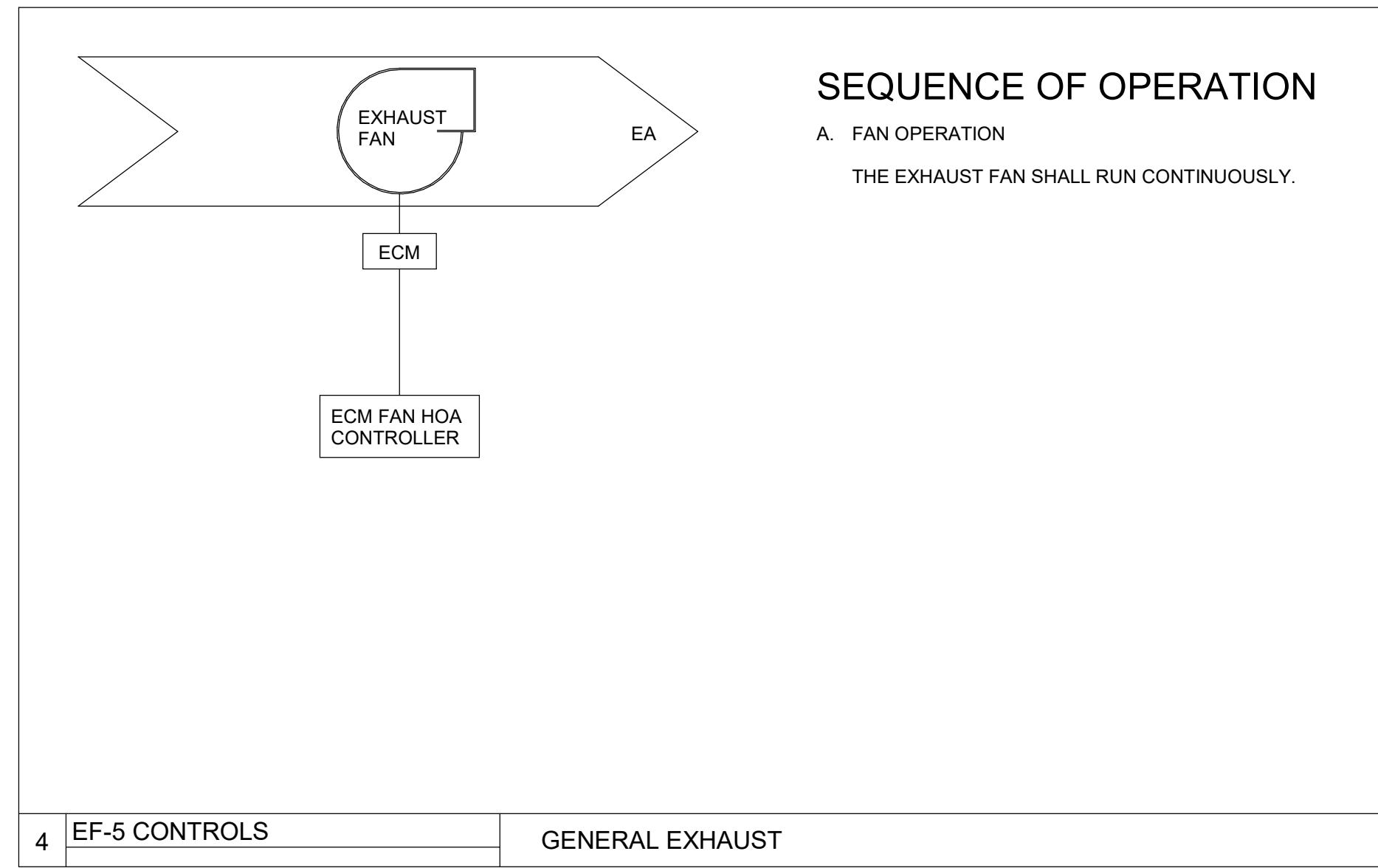
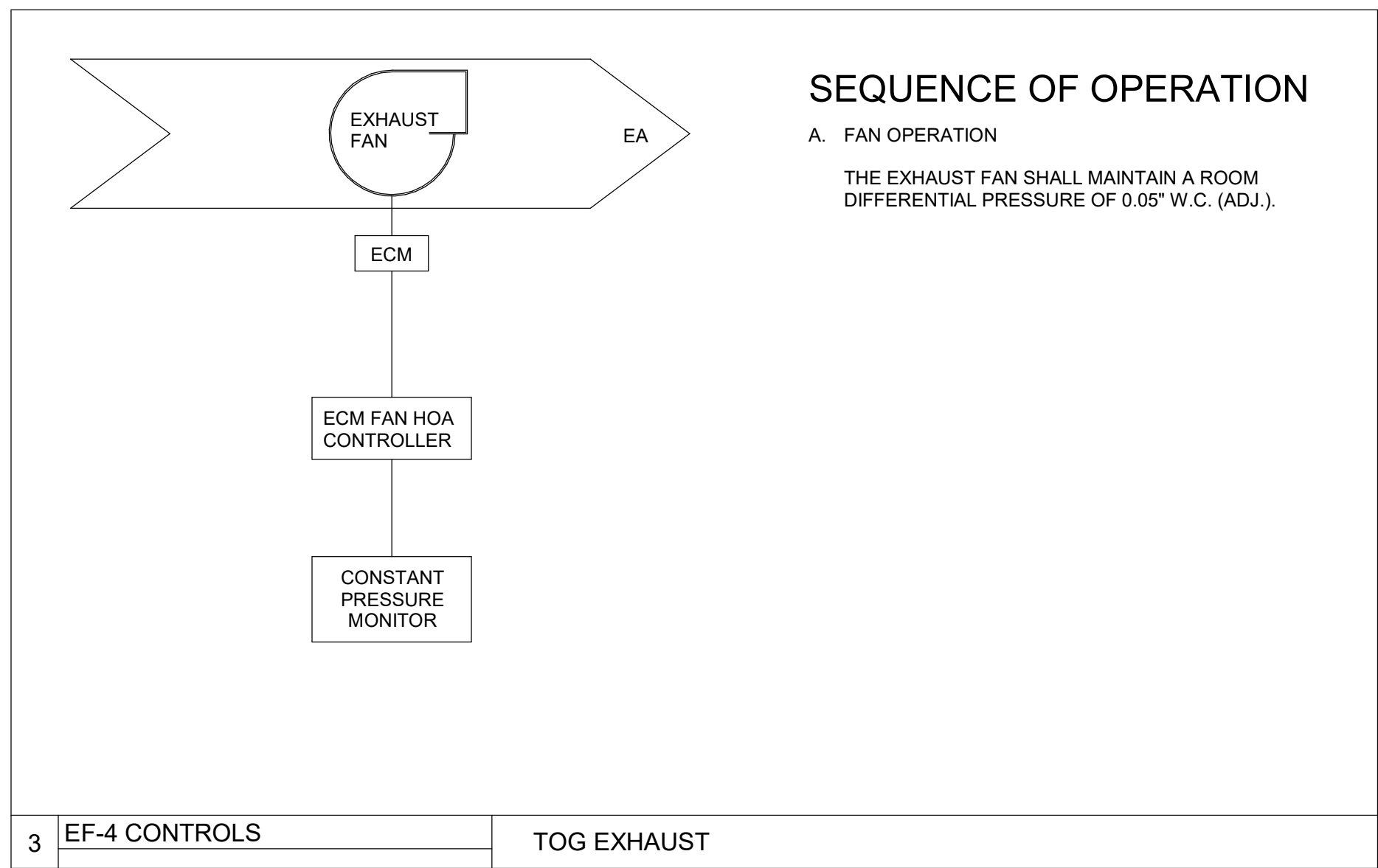
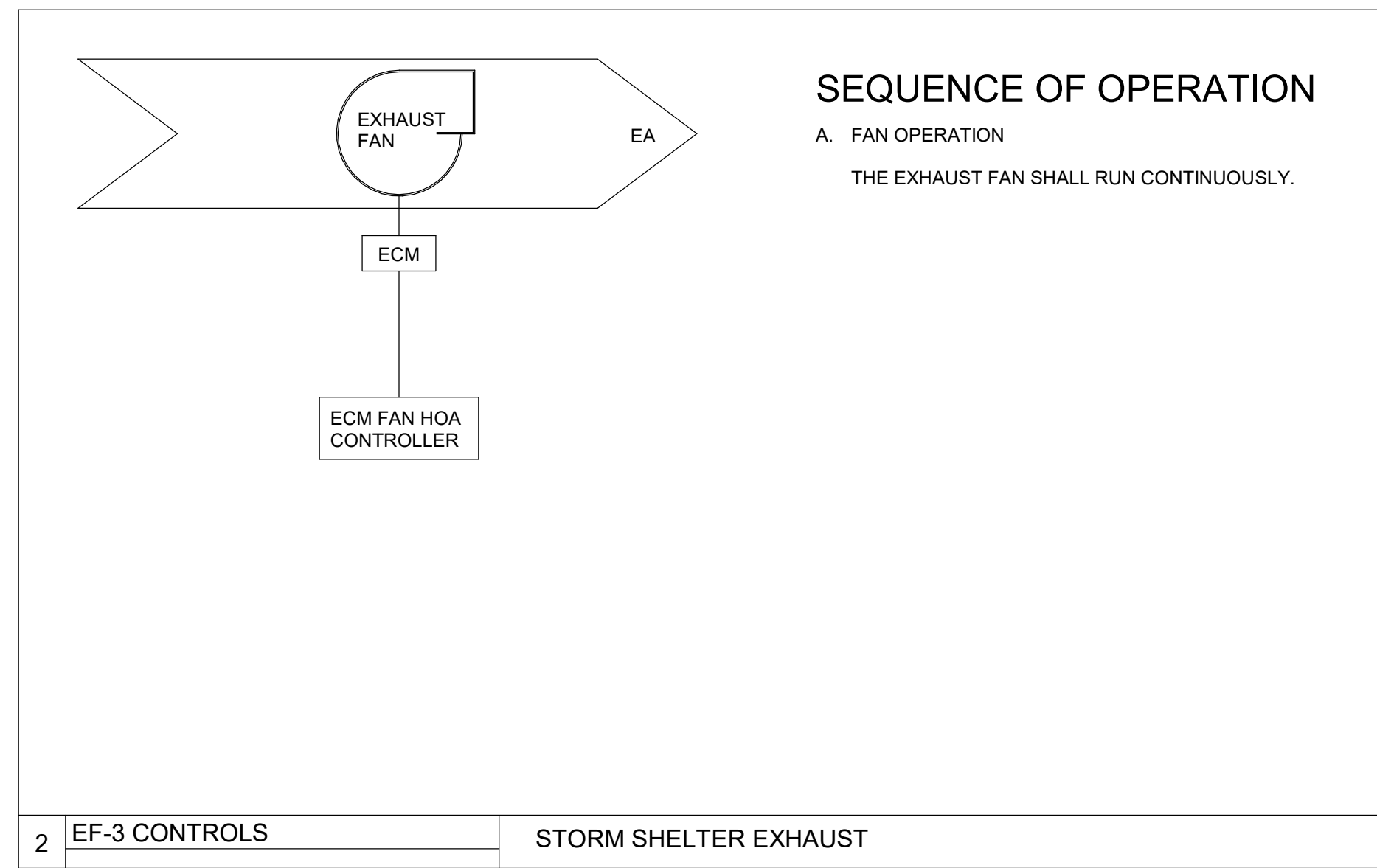
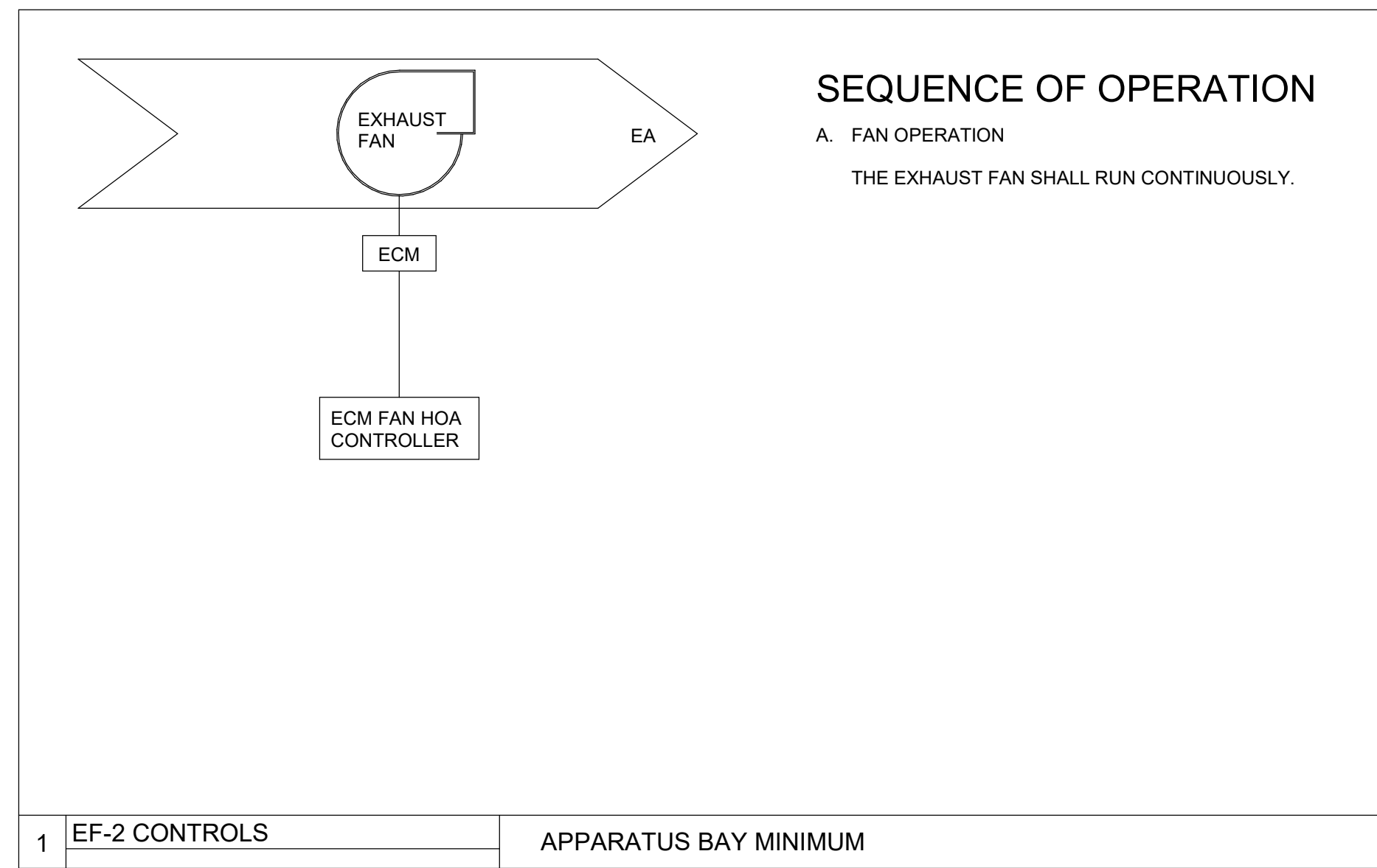
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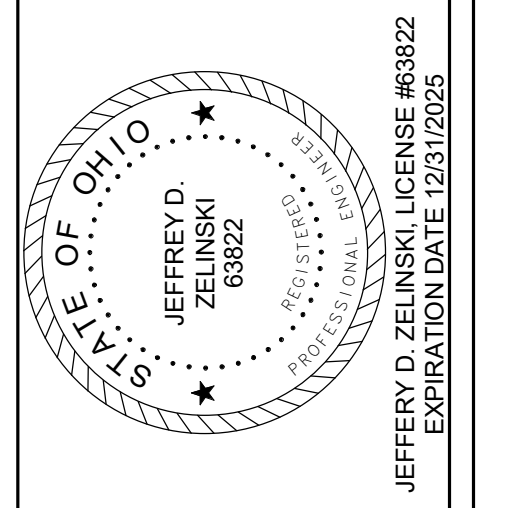
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Building:	Fire Station 2
System Tag/Name:	VRF + DOAS
Operating Condition Description:	207
Units (select from pull-down list):	207

Inputs for System	Name	Units	System		Diversity	System
			Value	Units		
Floor area served by system	A _f	sf	2,900			
Population of area served by system	P				4	
Design primary supply fan airflow rate	V _{psd}	cfm	2,630	100%	395	
OA req'd per unit area for system (Weighted average)	R _{as}	cfm/sf	0.90			
OA req'd per person for system area (Weighted average)	R _{ps}	cfm/ps	7.3			
Percent increase in V _{psd} over minimum required			0%			

Inputs for Potentially Critical Zones	Zone Name	Zone Tag	Occupancy Category	Floor Area of zone <th rowspan="2">Design population of zone <th rowspan="2">Design total supply to zone (primary plus local recirculated) <th rowspan="2">Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan? <th colspan="18">Potentially Critical Zones</th> </th></th></th>	Design population of zone <th rowspan="2">Design total supply to zone (primary plus local recirculated) <th rowspan="2">Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan? <th colspan="18">Potentially Critical Zones</th> </th></th>	Design total supply to zone (primary plus local recirculated) <th rowspan="2">Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan? <th colspan="18">Potentially Critical Zones</th> </th>	Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan? <th colspan="18">Potentially Critical Zones</th>	Potentially Critical Zones																	
								Vestibule	Restroom	Janitor	IT	Storage	Lt Dorm	Rest.	Dorm 1	Dorm 2	Dorm 3	Dorm 4	Dayroom	Kitchen (cooking)	Corridor	Corridor	Multipurpose Training	Corridor	Lt Office
				82	48	20	40	56	88	87	80	90	80	88	418	300	180	170	187	143	122	290	418		
				5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				132	0	0	0	50	80	100	90	90	90	90	460	250	100	100	150	100	150	300	300		

Inputs for Operating Condition Analysis	Percent of total design airflow rate at conditioned analyzed	D _s	%	Zone air distribution effectiveness at conditioned analyzed																		
				100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Zone air distribution effectiveness at conditioned analyzed	A _d			0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Primary air fraction of supply air at conditioned analyzed	E _p			0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85

Results	System Ventilation Efficiency	E _v	1.00
Outdoor air intake required for system	V _{of/As}	cfm	194
Outdoor air per unit floor area	V _{of/As}	cfm/sf	0.06
Outdoor air per person served by system (including diversity)	V _{of/Ps}	cfm/ps	48.7
Outdoor air as a % of design primary supply air	V _{of/Vps}	%	7%

Initial Calculations for the System as a whole			
System primary supply air flow at conditioned analyzed	V _{ps}	cfm	V _{psd} D _s = 395
Unconditioned OA intake flow req'd for system	V _{ou}	cfm	R _{as} P _f + R _{ps} A _s = 295
Unconditioned OA req'd as a fraction of primary SA	X _a		V _{ou} / V _{ps} = 0.57

Initial Calculations for Individual Zones			
Area outdoor air rate	R _a	cfm/sf	0.06
People outdoor air rate	R _p	cfm/ps	5.00
Total supply air to zone (at condition being analyzed)	V _{sz}	cfm	V _{psd} D _s = 135
Primary airflow to zone (at condition being analyzed)	V _{sz}	cfm	V _{psd} D _s = 135
Breathing zone outdoor airflow	V _{sz}	cfm	R _{ps} P _f + R _a A _z = 5
Zone outdoor airflow	V _{sz}	cfm	V _{psd} D _s = 135
Fraction of zone supply not directly recirc. from zone	F _a		(V _{sz} - V _{sz}) / V _{sz} = 1.00
Fraction of zone supply from fully mixed primary air	F _p		V _{psd} D _s / V _{sz} = 1.00
Fraction of zone OA not directly recirc. from zone	F _z		(V _{sz} - V _{sz}) / V _{sz} = 1.00
OA fraction required in the supply air to the zone	Z _d		(V _{sz} - V _{sz}) / V _{sz} = 0.05
OA fraction required in the primary air to the zone	Z _{ps}		(V _{sz} - V _{sz}) / V _{psd} D _s = 0.05

System Ventilation Efficiency			
Zone Ventilation Efficiency (App A Method)	E _v		(V _{of/Vps} - F _a) / (V _{of/Vps} - F _a) = 1.53
System Ventilation Efficiency (App A Method)	E _v		min(E _{vz}) = 1.57
System Ventilation Efficiency (Table 6.3 Method)	E _v		Value from Table 6.3 = 0.75

Minimum Outdoor Air Intake Airflow			
Outdoor Air Intake Flow required to System	V _{of}	cfm	V _{ou} / E _v = 194
OA intake req'd as a fraction of primary SA	Y		V _{of} / V _{ps} = 0.49
Outdoor Air Intake Flow required by System (Table 6.3 Method)	V _{of}	cfm	V _{ou} / E _v = 194
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		V _{of} / V _{ps} = 0.77
OA Temp at which the OA provides all cooling	D _{ag}	Deg F	(T _{ps} - T _{td}) / (1 - Y) + T _{td} = 37

VENTILATION NOTES:

OMC CHAPTER 4 REQUIRED VENTILATION: 194 CFM

- EF-3: 100 CFM
- EF-4: 300 CFM
- EF-5: 525 CFM (225 CFM FOR FUTURE EXPANSION)
- EF-6: 225 CFM
- EF-7: 500 CFM

EXHAUST TOTAL: 1,650 CFM
TOTAL OUTDOOR AIR RATE: 1,935 CFM

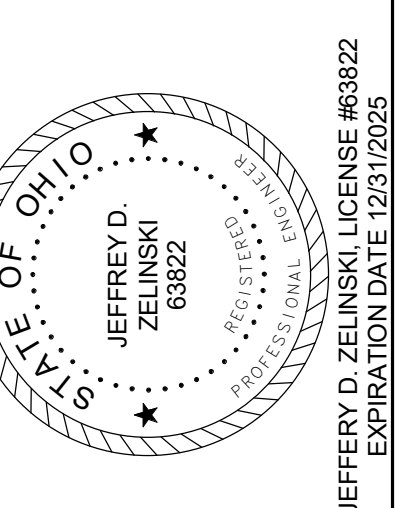
VENTILATION PROVIDED VIA DOAS-1. UNIT IS SIZED FOR FUTURE BUILDING EXPANSION.

BALANCING DAMPER SETPOINTS:

- FC-1: 200 CFM
- FC-2A: 42 CFM
- FC-2B: 42 CFM
- FC-3: 200 CFM
- FC-4: 200 CFM
- FC-5: 200 CFM

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VENTILATION
H5.1

ELECTRICAL SPECIFICATIONS

- AD. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.
- AE. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.
- AF. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS, FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.
- AG. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL SPECIFICATIONS

- A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2017 OHIO BUILDING CODE, 2017 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE, PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E.
- C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.
- D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.
- F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH ADJACENT TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.
- G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE.
- J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR FINAL CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.
- M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABILING USES INCLUDING VOICE/DATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.
- O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.
- P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON, PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- R. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- S. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE.
- T. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.
- U. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.
- V. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- W. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- X. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.
- Y. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.
- Z. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLBOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.
- AA. LABEL ALL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.
- AB. LABEL ALL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.
- AC. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. REFER TO TECHNOLOGY PLANS.

ELECTRICAL LEGEND CONT.

- EM OCCUPANCY SENSOR UL 924 RELAY TO TURN EMERGENCY SWITCH-LED LIGHTS 'ON' AND BYPASS SWITCH ON LOSS OF NORMAL POWER. DIMMED EMERGENCY FIXTURES TO BYPASS DIMMER CONTROL TO DRIVE DIMMED FIXTURES TO FULL BRIGHTNESS.
- DISCONNECT SWITCH
- MOTOR STARTER.
- COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
- ELECTRIC MOTOR.
- UNIT HEATER.
- FAN COIL UNIT.
- CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
- CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
- ELECTRIC BASEBOARD HEATER.
- TELEPHONE/DATA OUTLET (18" M.H. EXCEPT WHEN SHADED, MOUNT AT 46" M.H. UNLESS OTHERWISE INDICATED M.H.). REFER TO TECHNOLOGY PLANS.
- WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
- FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), SUBSCRIPT 'C' INDICATES CEILING MOUNTED DEVICE.
- FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA. "C" SUBSCRIPT INDICATES CEILING MOUNTED DEVICE.
- FIRE ALARM SENDING STATION (46" M.H.).
- CEILING MOUNTED SMOKE DETECTOR.
- CEILING MOUNTED COMBINATION SMOKE/CO ALARM.
- DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
- ELECTRO-MAGNETIC DOOR HOLDER.
- TV WALL BOX. REFER TO DETAIL.
- DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H. REFER TO DETAIL 5 ON SHEET E0.4
- CCTV CAMERA ROUGH-IN BOX/ CONDUIT STUBB TO BUILDING INTERIOR.
- ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
- PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
- PUSH BUTTON (46" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING, OR REFER TO NOTE ON PLAN.
- CEILING FAN FURNISHED AND INSTALLED BY E.C.; REFER TO SPECIFICATIONS

ELECTRICAL LEGEND

- ELECTRICAL CONNECTION REQUIRED.
- EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
- LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP.
- EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING
- WIRE & CONDUIT UNDERGROUND
- JUNCTION BOX.
- 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.), USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL NIGHT LIGHT ACCESSORY. DEVICE SHALL HAVE LED NIGHT LIGHT IN FACE OF DEVICE WITH PHOTO-SENSOR CONTROL, NEMA 5-20R (18" M.H.).
- SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
- 20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANG ASSEMBLY.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) D = DOUBLE DUPLEX.
- 20A-125V SPLIT DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- 20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
- 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2436 FLUSH FLOOR BOX WITH SA-3825 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
- 20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
- 30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.).
- SINGLE POLE WALL SWITCH (46" M.H.)
- TWO POLE WALL SWITCH (46" M.H.).
- THREE-WAY WALL SWITCH (46" M.H.).
- FOUR-WAY WALL SWITCH (46" M.H.).
- LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
- LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- SPEAKER VOLUME CONTROL (46" M.H.)
- 0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.
- SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" M.H.).
- KEY OPERATED WALL SWITCH (46" M.H.). HUBBELL # HBL 1221 RKL WITH #512RKL COVERPLATE.
- LIGHTING DIMMER SWITCH WITH PRESET CONTROL (46" M.H.) 1000 WATT UNLESS OTHERWISE INDICATED. DIMMER TO MATCH TYPE OF LIGHTING LOAD.
- SWITCH WITH RECEPTACLE (46" M.H.) STANDARD TWO-GANG ASSEMBLY OF SWITCH AND RECEPTACLE.
- FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" M.H.).
- HP RATED WALL SWITCH (46" M.H.).
- OCCUPANCY SENSOR, CEILING MOUNTED.
- OCCUPANCY SENSOR CONTROL RELAY.

GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINERY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL INDEX OF DRAWINGS

SHEET	DRAWING TITLE
E0.1	LEGEND
E0.2	SCHEDULES
E0.3	SINGLE LINE
E0.4	DETAILS
E0.5	DETAILS
E0.6	MSD&C SCHEDULE
E0.7	PANEL SCHEDULES
E1.1	SITE PLAN
E2.1	FIRST FLOOR LIGHTING PLAN
E2.2	SECOND FLOOR LIGHTING PLAN
E3.1	FIRST FLOOR POWER PLAN
E3.2	SECOND FLOOR POWER AND SYSTEMS PLAN
E4.1	FIRST FLOOR SYSTEMS PLAN

SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO DRAWING H0.1

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 EXPIRATION DATE 12/31/2025

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REVISIONS

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LEGEND

LIGHTING CONTROL RELAY PANEL LOAD AND CONTROL REQUIREMENTS SCHEDULE														
PANEL DESIGNATION: RP1 (24 POSITION PANEL)														
RELAY NO.	ROOM/ AREA	DESCRIPTION	FIXTURE TYPE	NO. OF DEVICES	LOAD (KVA)	CIRCUIT NO. (VOLTAGE)	CONTROL OUTPUT		CONTROL INPUT				SEE NOTE	
							RELAY	DIM 0-10V	DISCRETE	SWITCH	OCC SENSOR	PHOTO SENSOR		PHOTO CELL
1	EXTERIOR	POLE LIGHTING	PL1			120V	•							
2	EXTERIOR	BLDG LIGHTING	K1			120V	•							
3	SPARE					120V	•							
4	SPARE					120V	•							
5	APP BAY	ZONE 'a'	C2			120V	•		•	•				1
6	APP BAY	ZONE 'b'	C2			120V	•		•	•				1
7	APP BAY	ZONE 'c'	C2			120V	•		•	•				1
8	APP BAY	ZONE 'd'	C2			120V	•		•	•				1
9	APP BAY	ZONE 'e'	C2			120V	•		•	•				1
10	SPARE					120V	•							
11	SPARE					120V	•							
12	SPARE					120V	•							

NOTES:
1. OVERRIDE BUTTON LOCATED IN APP BAY CONTROL PANELS TO BYPASS OCCUPANCY SENSOR CONTROL. (ALL ON)

LIGHTING FIXTURE SCHEDULE																						
FIXTURE SYMBOL	LED	TYPE	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				MOUNTED			SIZE			SEE NOTES	
			LOW VOLTAGE	WATTS/ FIXTURE	LUMENS/ COLOR TEMP	VOLTAGE					WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTES	S - SURFACE, R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, UC - UNDER CAB, CS - CLG. SURF.	WIDTH	LENGTH	DEPTH		DIAMETER
B1	•			30	3600 LUMENS/ 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•				R(GRID)	24	24	2					
C1	•			40	5000 LUMENS/ 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•				WM/S/SM	3	48	3					
C2	•			80	10000 LUMENS/ 4000K	120	LITHONIA# CLX L96 10000LM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•					3	96	3					
D2	•			10	1300 LUMENS/ 3000K	120	LITHONIA# FMV/SL-24IN-MVOLT-30K-90CRI-BN-M4	COLUMBIA, DAYBRITE	SQUARE WHITE LENS	•				WM (7'-0" A.F.F.)	6	24	4					
D3	•			60	8000 LUMENS/ 4000K	120	FINELITE#HP-2-WM-ID-9-SC-840-F-F-9614-120-S C-FC1%-MB-FE-SW	MARK	SATIN WHITE LENS UP/DN	•				WM (PER PLANS)	3	96	3					
F1	•			14	1100 LUMENS	120	LITHONIA# WF6-LED-304050K-90CRI-MW	GREEN CREATIVE, PHILIPS	FLAT WHITE LENS	•				R			1.5	6	1			
F2	•			11	870 LUMENS/ 4000K	120	LITHONIA#6JBK-RD-40K-90-CRI-MW-M6	PRESCOLITE, PHILIPS	REGRESSED WHITE BAFFLE	•				R			4	6				
F3	•			23	2000 LUMENS / 4000K	120	LITHONIA# LDN6CYL40/20 L06ARLSS 120	PRESCOLITE, PHILIPS	SEMI SPECULAR REFLECTOR	•				SM - 24" SOEM			36	6				
K1	•			26	2600 LUMENS/ 4000K	120	LITHONIA#DSXW1-10C-700-40K-TFTM-MVOLT-D BLXD	COLUMBIA, GARDCO	FORWARD THROW	•				WM	12	6	10				7	
FL1	•			20	2000 LUMENS / 4000K	120	LITHONIA# DSXF1-LED-P1-40K-NSP-MVOLT-THK-DBXD	HUBBELL, GARDCO	NARROW SPOT FLOODLIGHT	•				S (GRADE)								
P1	•			10W	800 LUMENS	120	MILLENNIUM #R1RWHC175B	OR APPROVED BY ARCH.	RLM SHADE	•				PENDANT			6	17	8			
PL1	•			125	8700 LUMENS / 4000K	120	LITHONIA# DSX1-LED- P3- 40K- T3M- MVOLT- SPA- DDBXD/SSS-20 - 4G- DM19AS- DDBXD	BEACON, GARDCO	FULL CUTOFF (TYPE III)	•				20' (5") SQUARE STEEL POLE							4, 6	
UC1	•			10	500 LUMENS / 4000K	120	LITHONIA# UPLD-18IN-30K-90CRI-SWR-WH	CONTECH, TRACELITE	MATTE WHITE LENS	•			2	UC (OR SHELF)			18				2	
X1	•			5W		120	LITHONIA # LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE WIEM HEADS	•				WM OR CLG SURFACE ABOVE DOOR								
REM	•					120	LITHONIA # ERE-GY-T-RD-WP	COMPASS, CHLORIDE	LED REMOTE LAMP HEADS - 2 HEAD - ROUND	•				WM OR CLG SURFACE TO CANOPY							4	
EM	•			5	TWO 1W LAMPS	120	LITHONIA #EU2C	COMPASS, CHLORIDE	EMERGENCY LIGHT					WM 7'-6"	4	14	4					

- NOTES:
1. SWITCHABLE COLOR TEMPERATURE.
 2. INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION).
 3. COORDINATE FIXTURE SUSPENSION HEIGHT WITH ARCHITECT.
 4. REFER TO POLE BASE DETAIL.
 5. PROVIDE SURFACE MOUNTED WEATHER PROOF BACK BOX FOR SURFACE MOUNTING TO UNDERSIDE OF CANOPY.
 6. FIXTURES SHALL HAVE 7-PIN CONTROL RECEPTACLE WITH SHORTING CAP. REFER TO SITE PLAN FOR POLE FIXTURES WITH CONVENIENCE RECEPTACLE AT BASE.
 7. FIXTURE CENTERED ON WALL BETWEEN APPARATUS BAY DOORS. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
 8. COORDINATE SUSPENSION HEIGHT WITH ARCHITECT.
 9. ADJUSTABLE LUMEN OUTPUT 1000-2000 LUMEN.

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD
SIDNEY, OHIO 45365

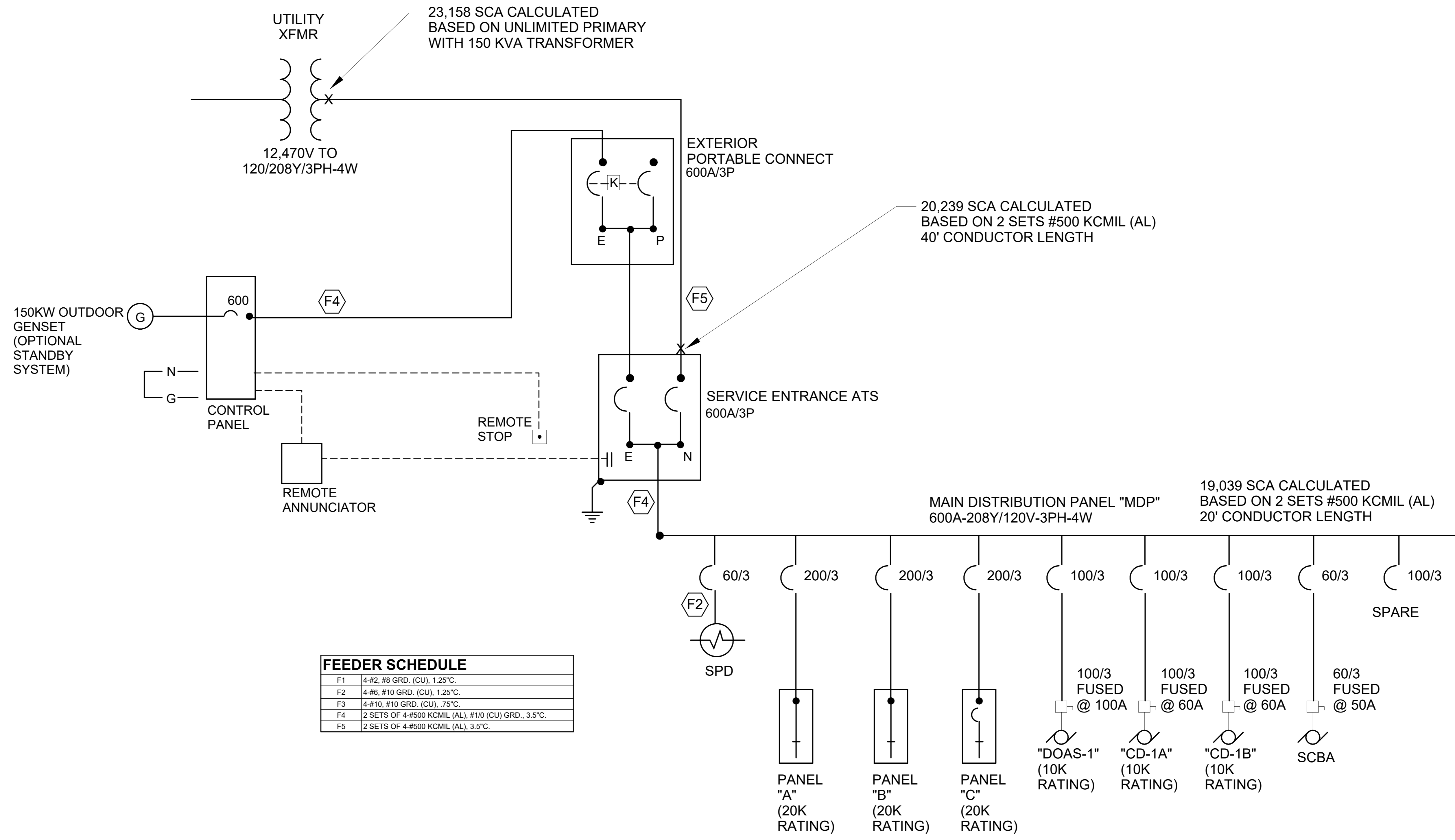


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SCHEDULES

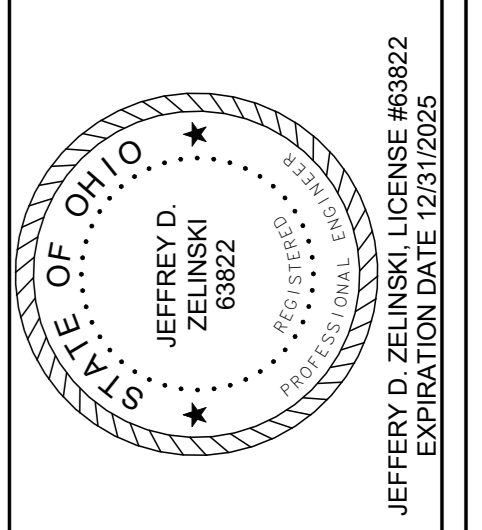
E0.2



FEEDER SCHEDULE	
F1	4-#2, #8 GRD. (CU), 1.25°C.
F2	4-#6, #10 GRD. (CU), 1.25°C.
F3	4-#10, #10 GRD. (CU), 75°C.
F4	2 SETS OF 4-#500 KCMIL (AL), #1/0 (CU) GRD., 3.5°C.
F5	2 SETS OF 4-#500 KCMIL (AL), 3.5°C.

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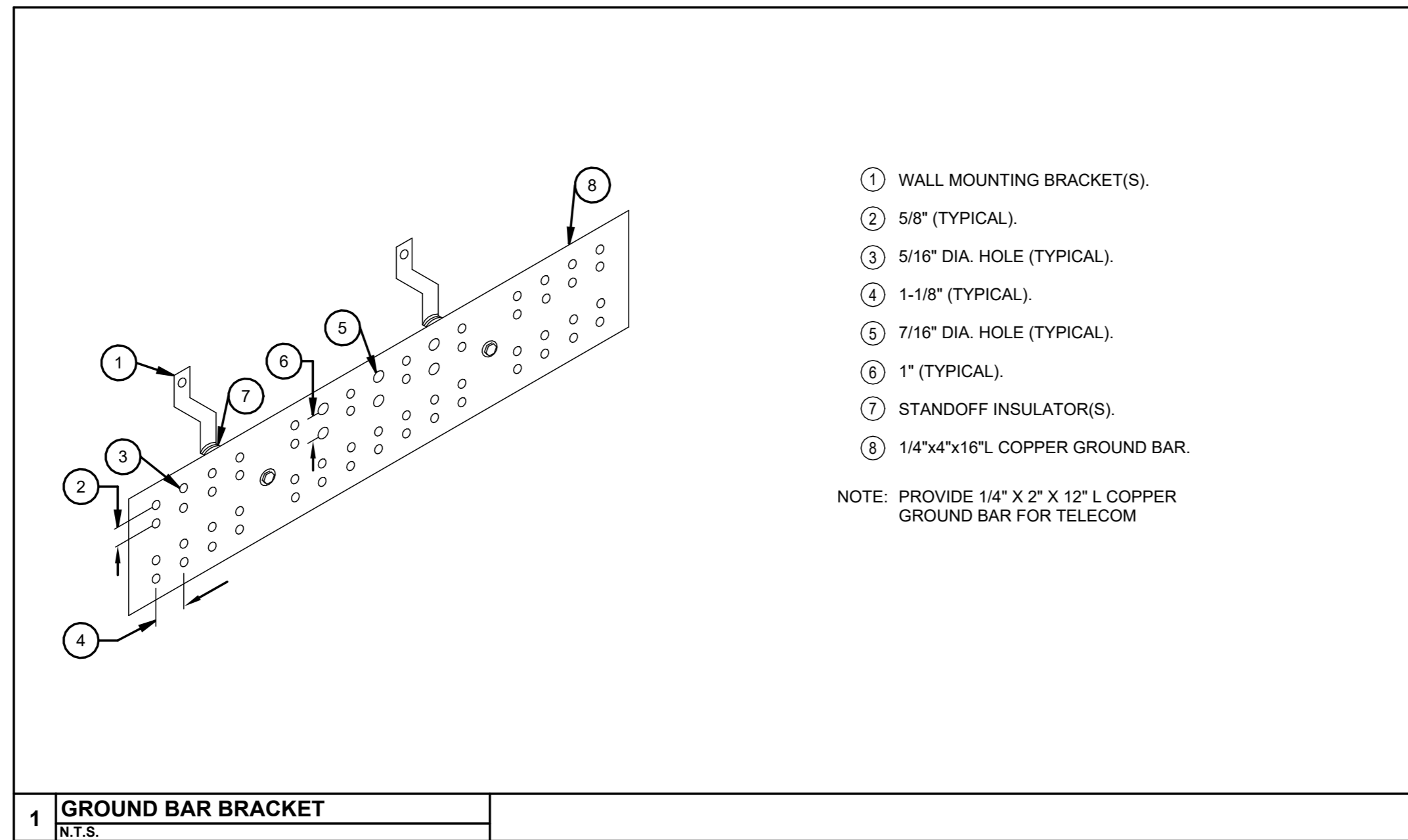
NEW CONSTRUCTION OF
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 2324 CAMPBELL ROAD
 SIDNEY, OHIO 45365



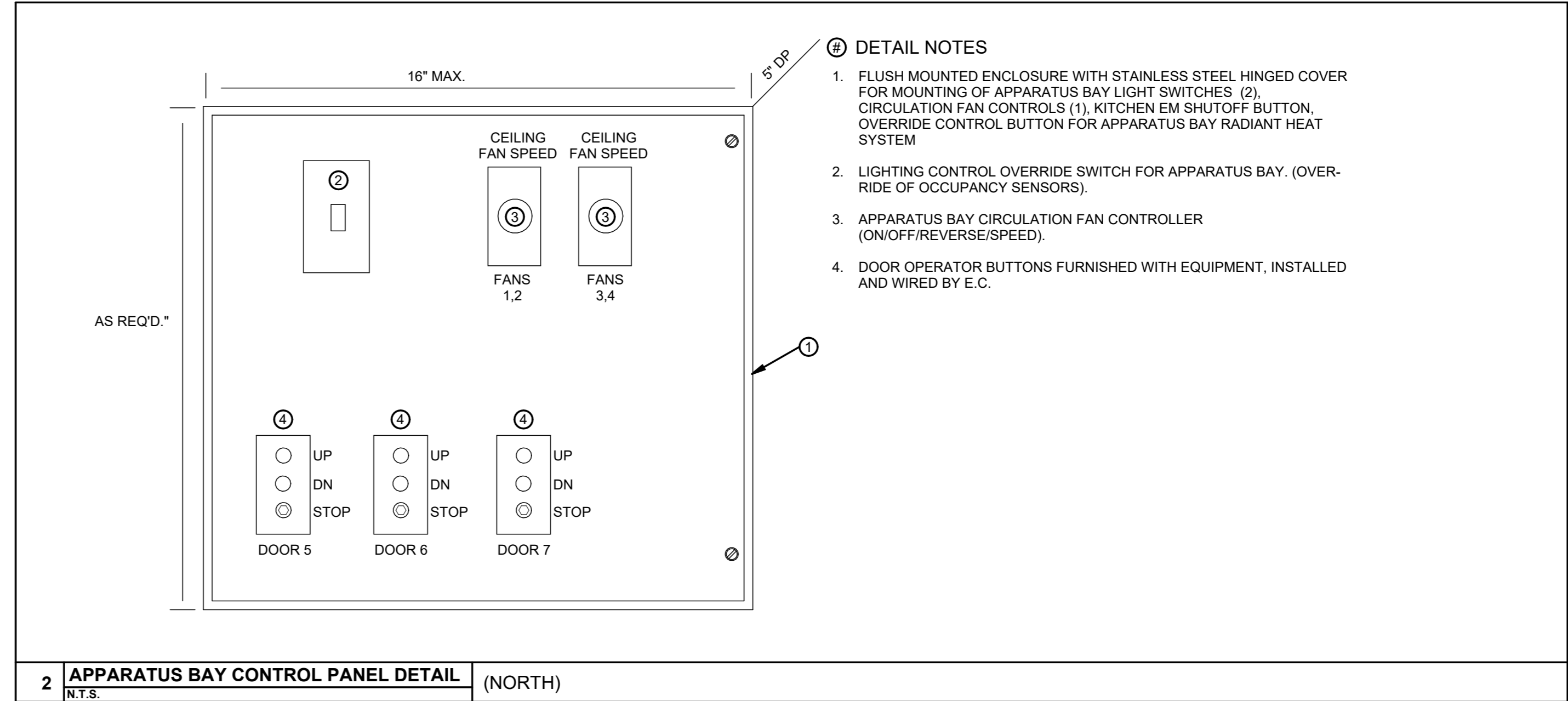
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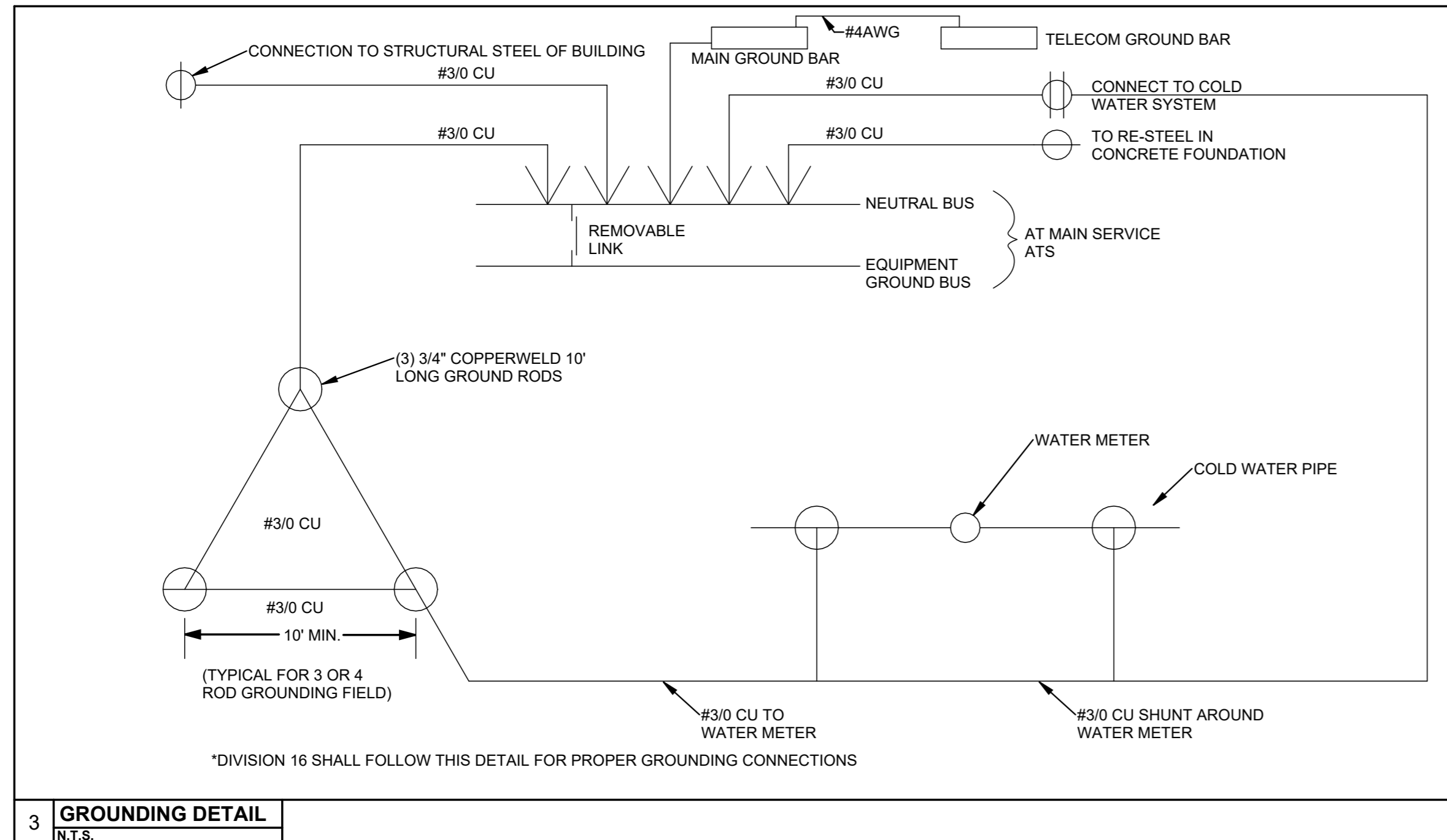
SINGLE LINE
E0.3



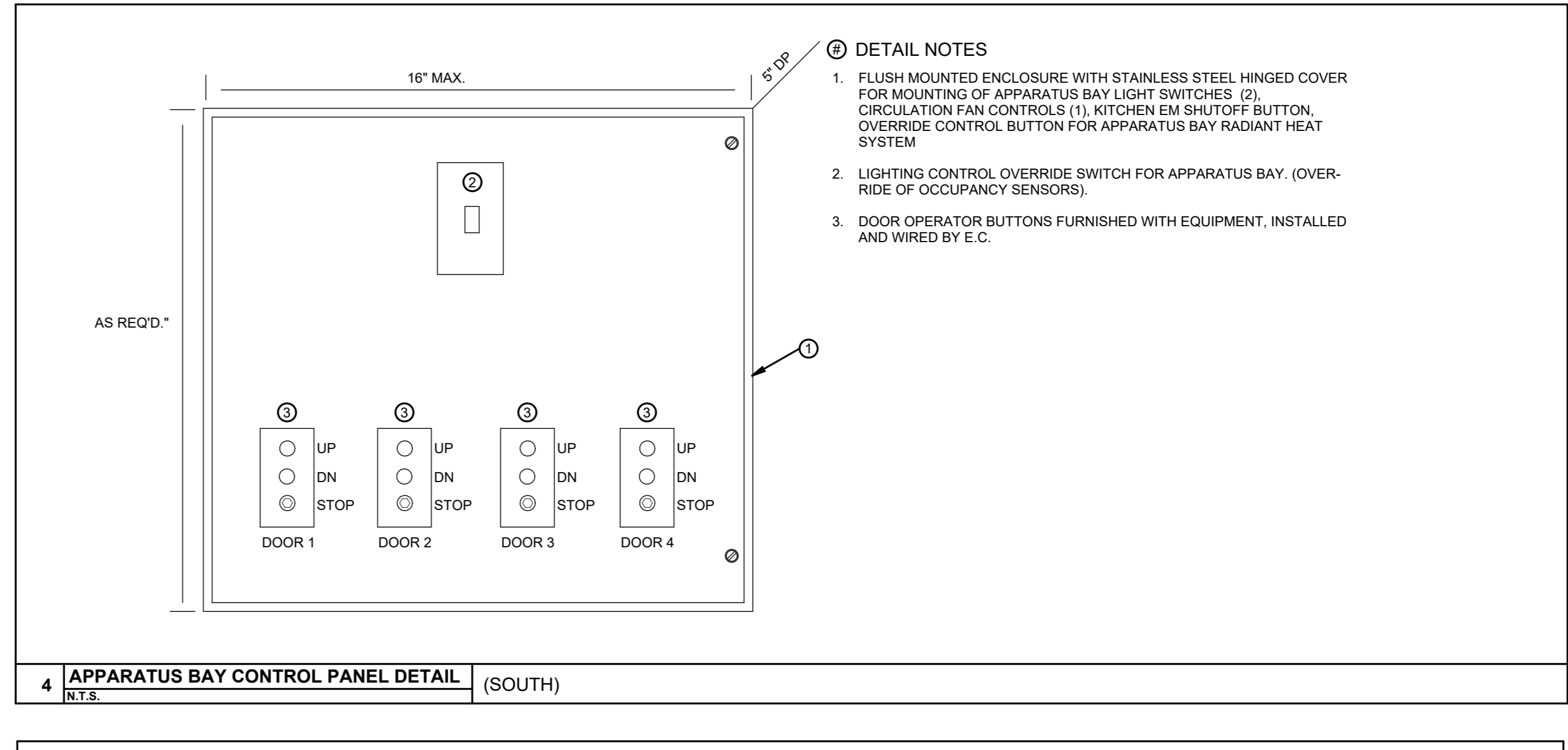
1 GROUND BAR BRACKET
N.T.S.



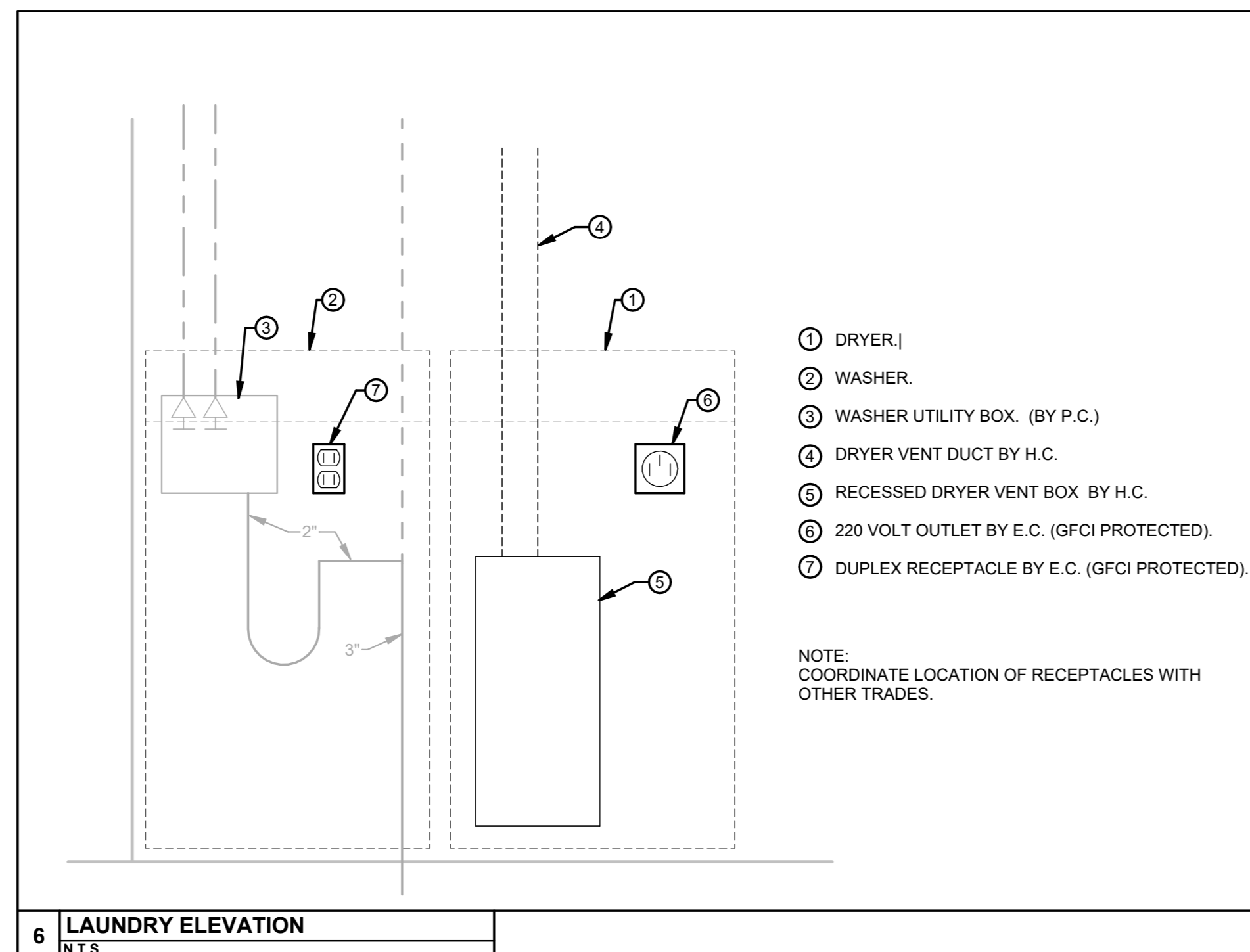
2 APPARATUS BAY CONTROL PANEL DETAIL (NORTH)
N.T.S.



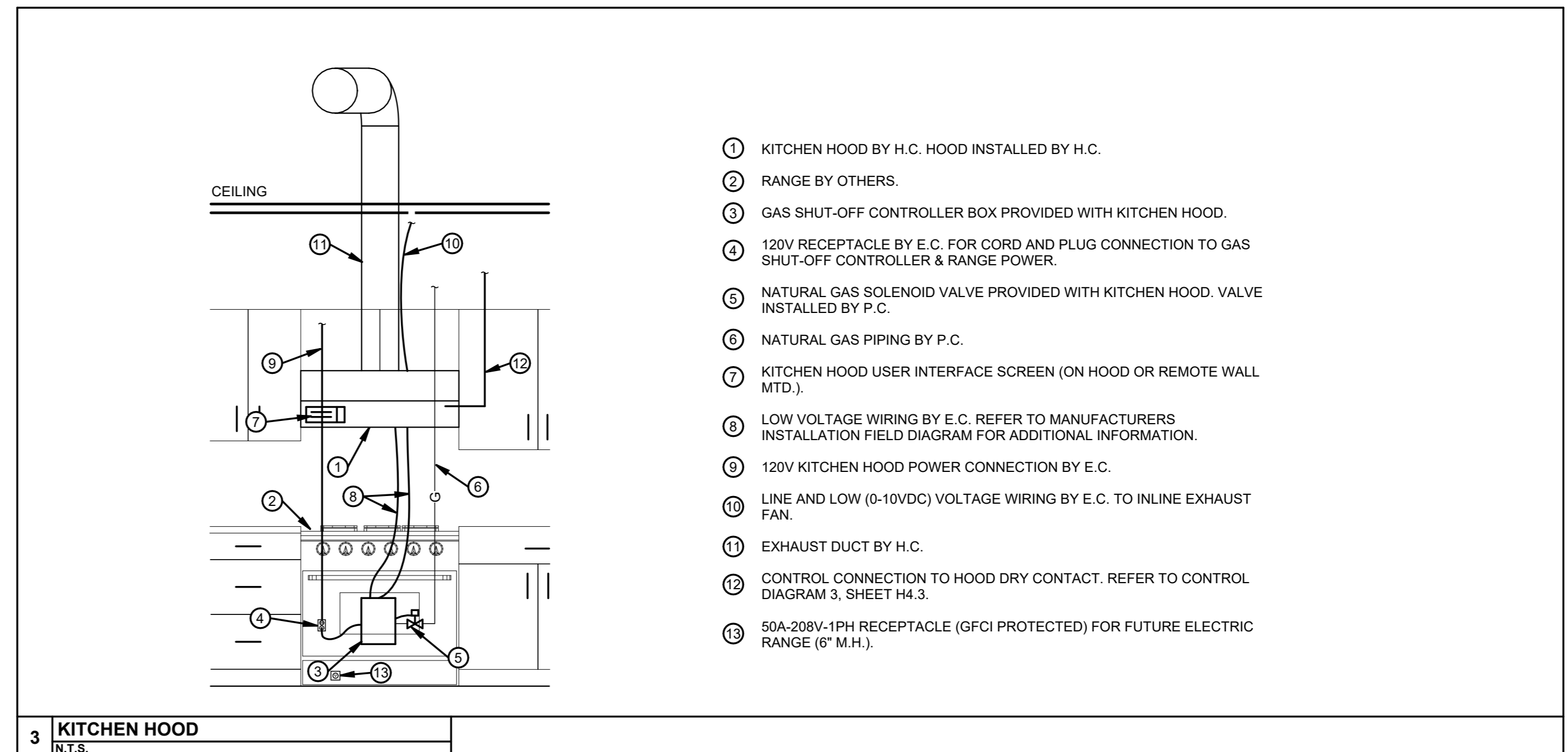
3 GROUNDING DETAIL
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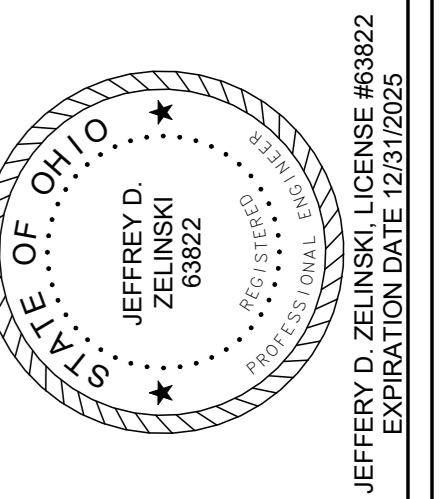
4 APPARATUS BAY CONTROL PANEL DETAIL (SOUTH)
N.T.S.



6 LAUNDRY ELEVATION
N.T.S.



3 KITCHEN HOOD
N.T.S.



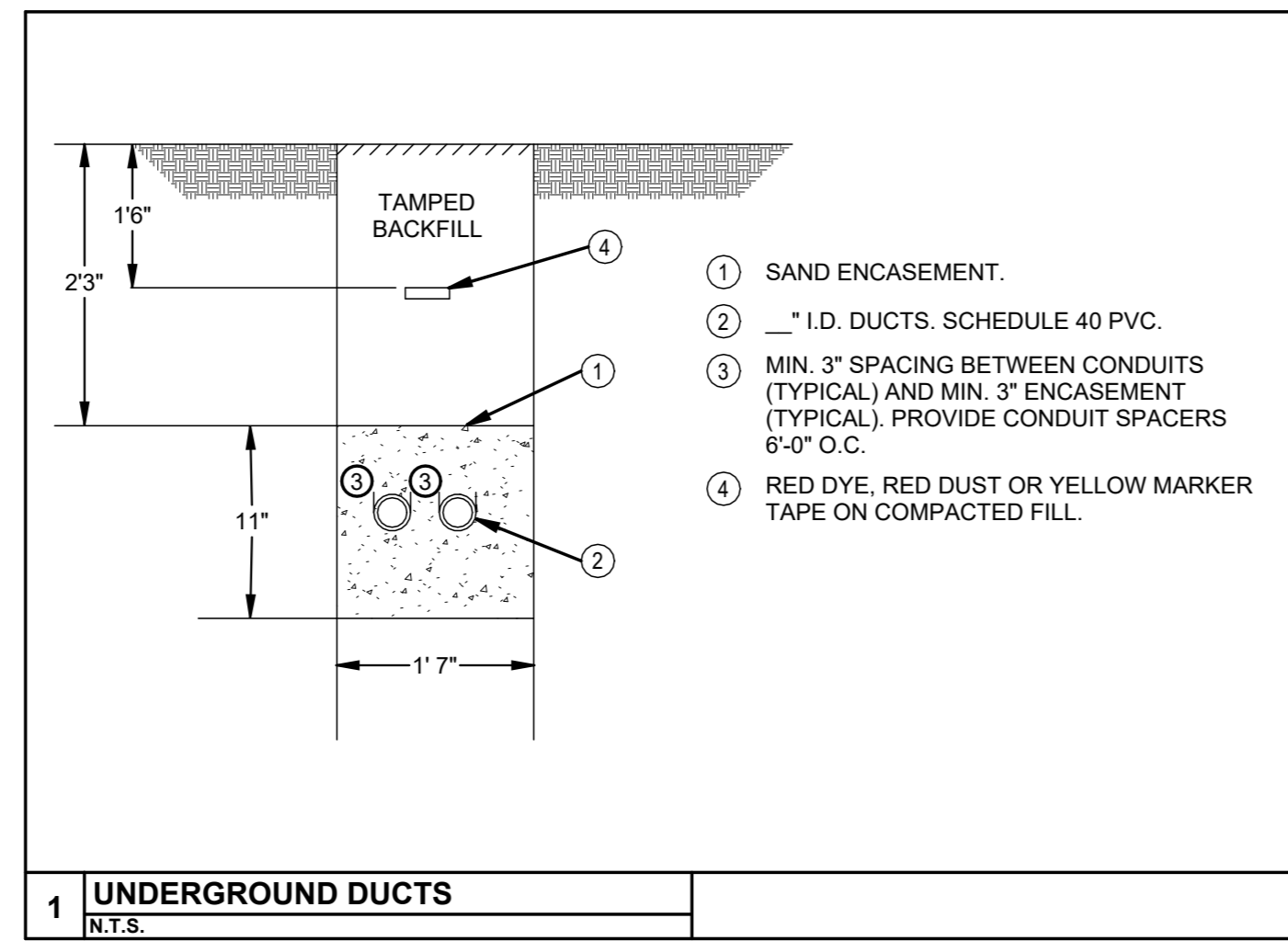
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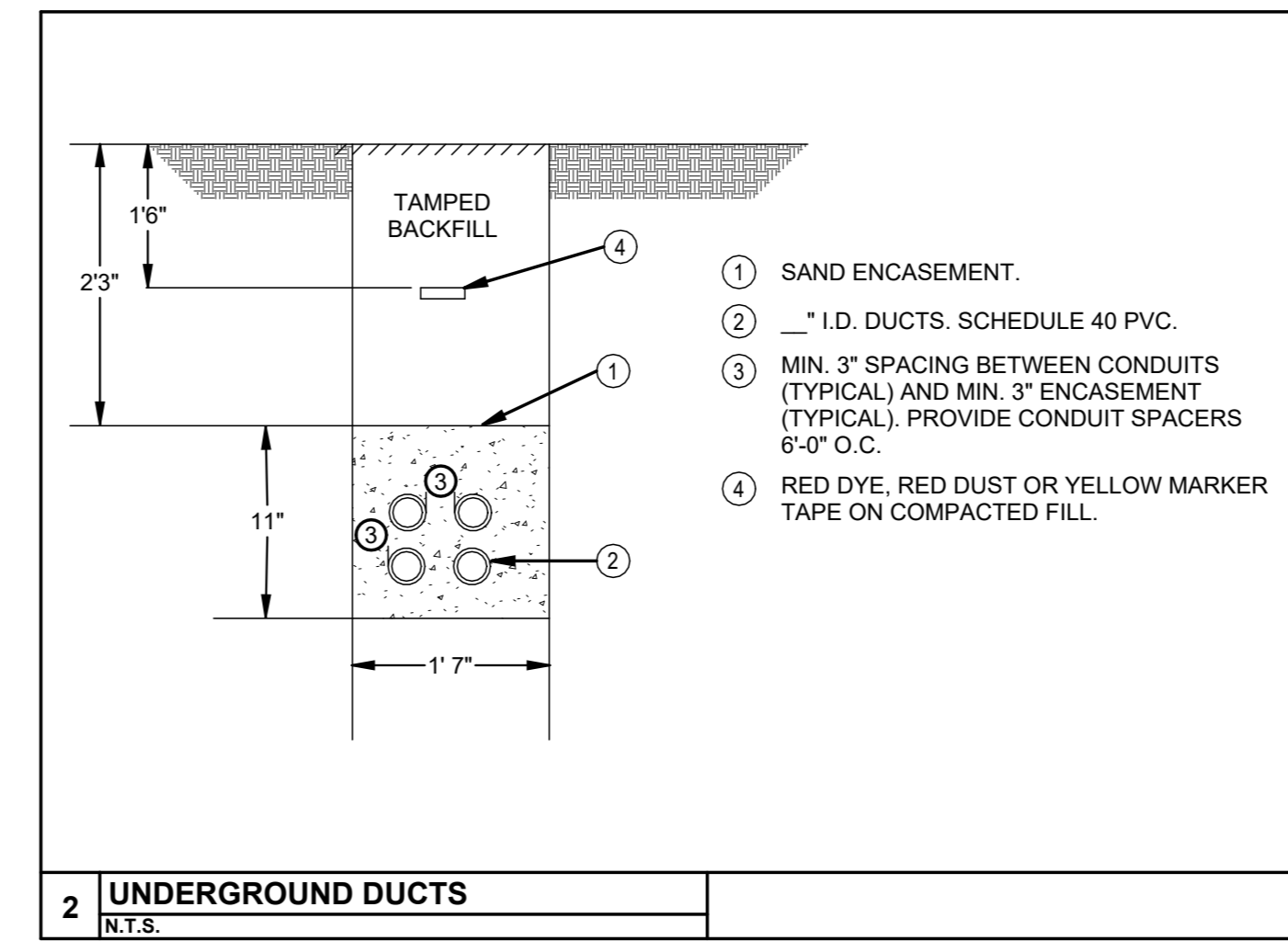
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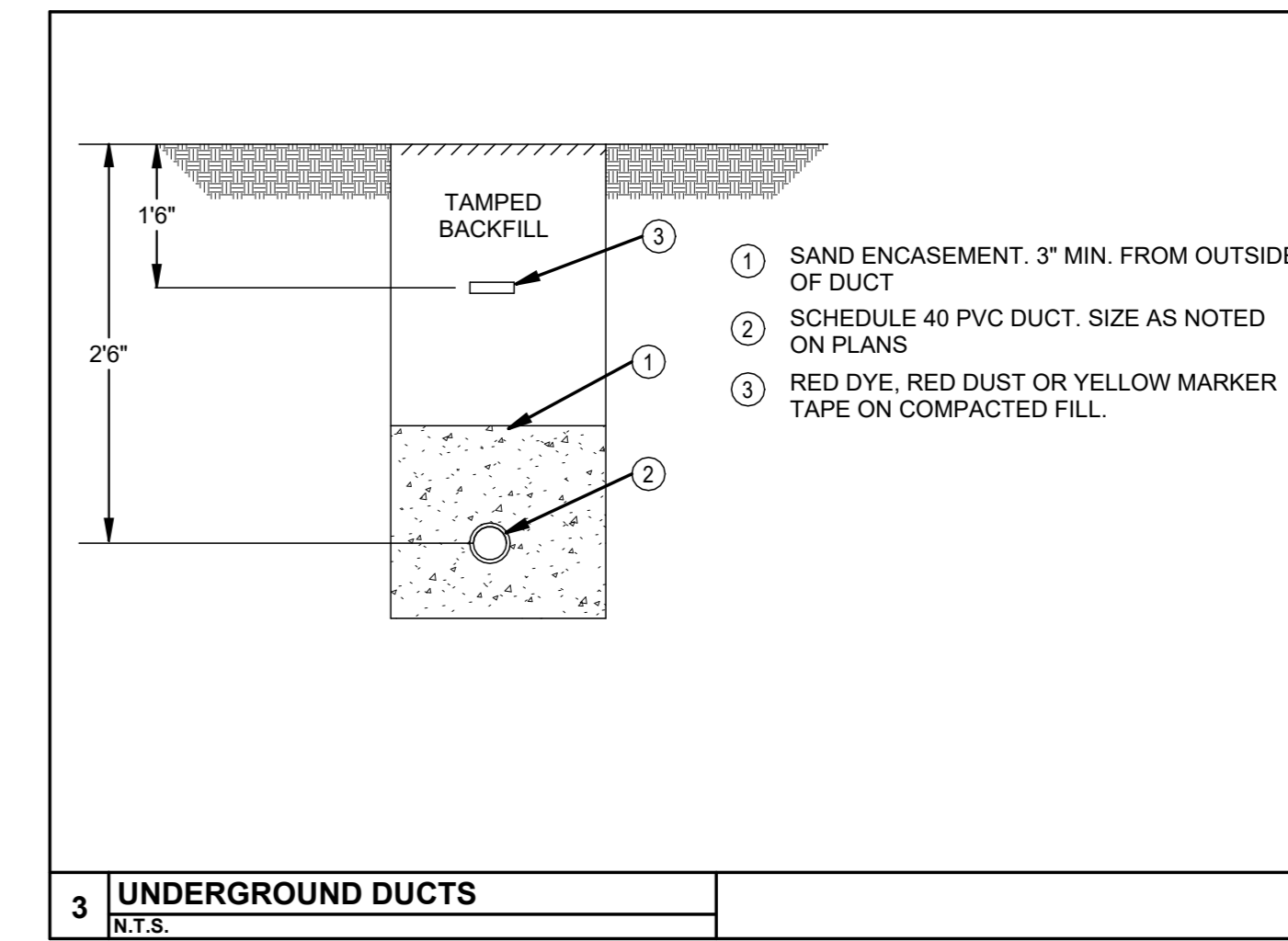
DETAILS



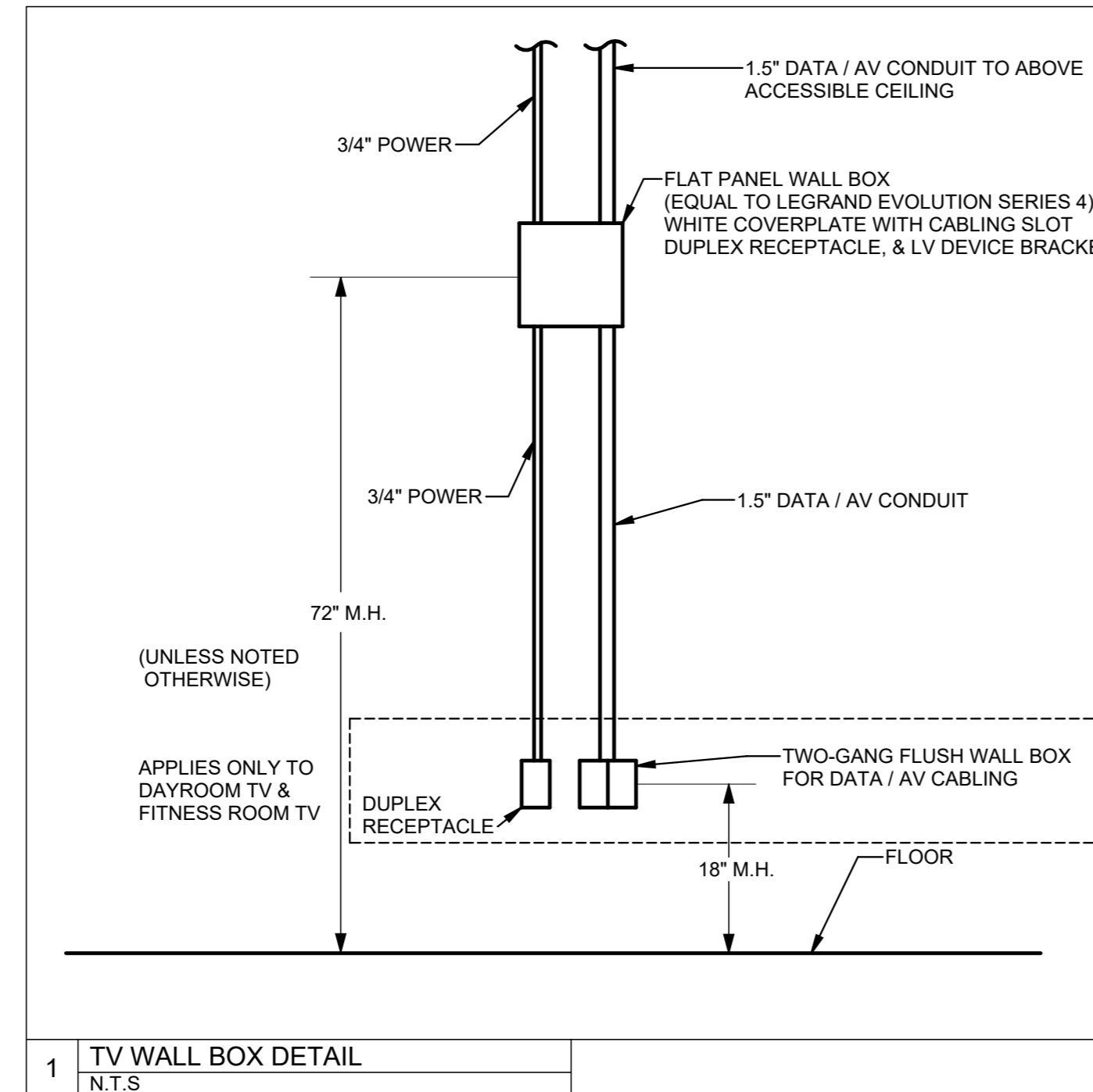
1 UNDERGROUND DUCTS
N.T.S.



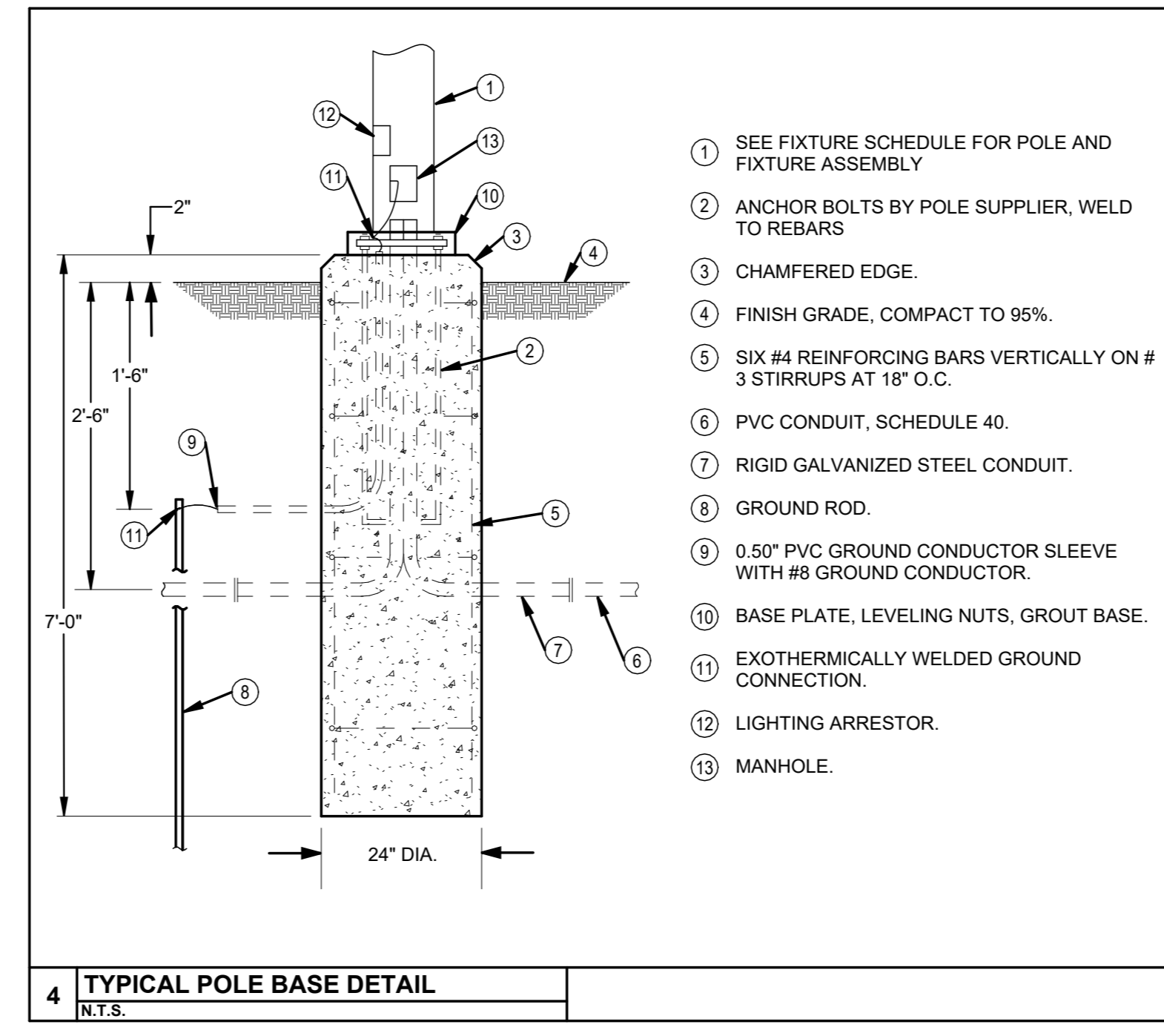
2 UNDERGROUND DUCTS
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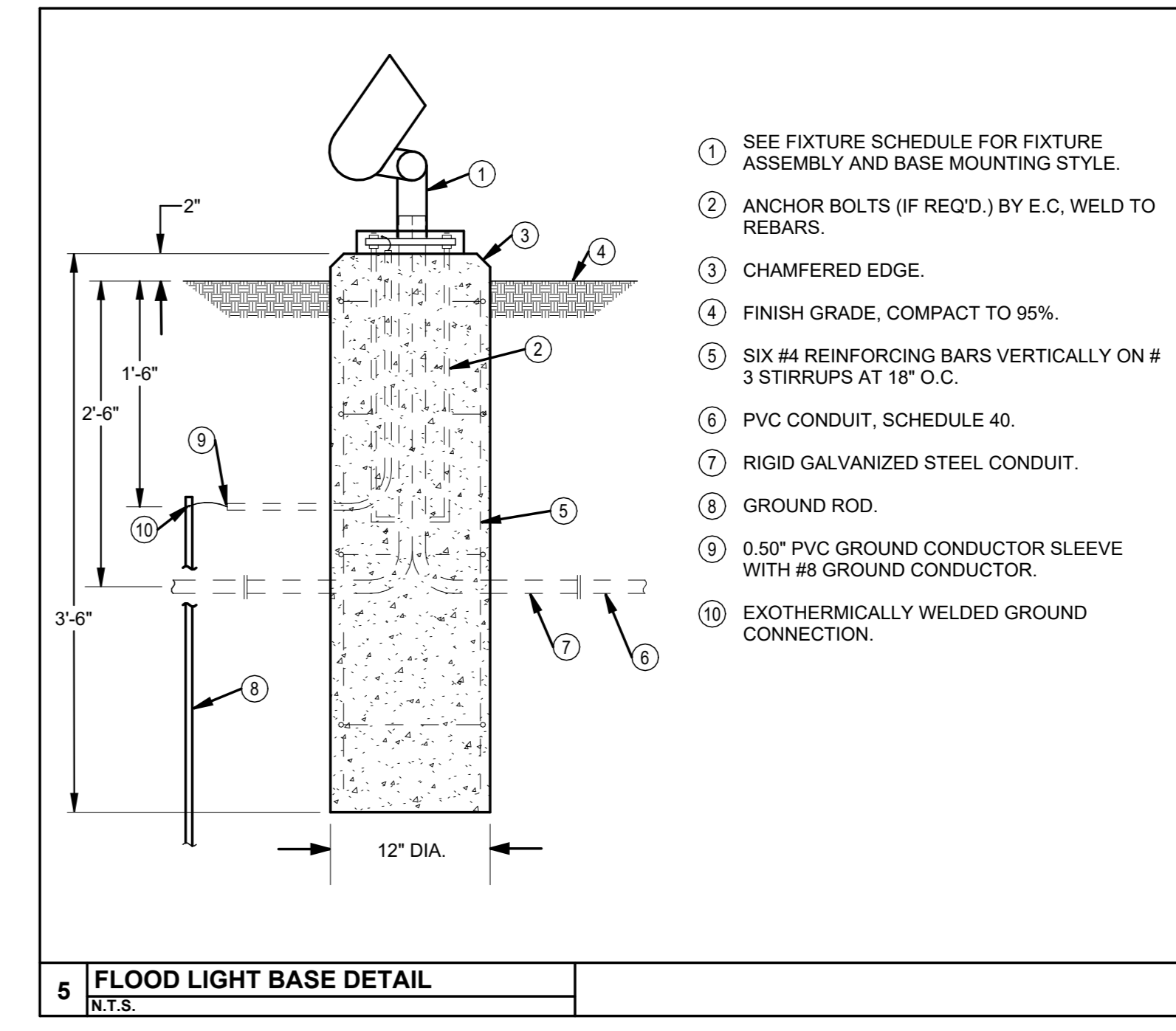
3 UNDERGROUND DUCTS
N.T.S.



1 TV WALL BOX DETAIL
N.T.S.



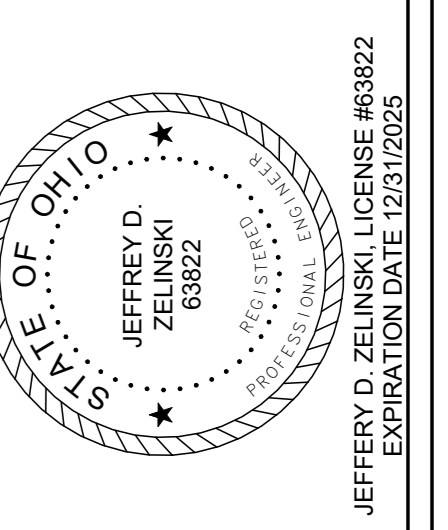
4 TYPICAL POLE BASE DETAIL
N.T.S.



5 FLOOD LIGHT BASE DETAIL
N.T.S.

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DETAILS	
E0.5	

Branch Panel: A														
LOCATION:			MOUNTING: Surface			A.I.C RATING			MOUNTING: Surface			A.I.C RATING		
SUPPLY FROM: MDP			ENCLOSURE: Type 1			MAINS TYPE: M.L.O			ENCLOSURE: Type 1			MAINS TYPE: M.L.O		
VOLTAGE: 120/208 Wye-3-4			MCB RATING: 1 A			MAINS RATING: 225 A			MCB RATING: 1 A			MAINS RATING: 225 A		
CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT		
1	Lighting	20 A	1		1485 VA	90 VA			1	20 A	Lighting	2		
3	Lighting	20 A	1			1000 VA	1000 VA		1	20 A	Lighting	4		
5	Service Cord	20 A	1	1			500 VA	500 VA	1	1	20 A	Service Cord	6	
7	Service Cord	20 A	1	1	500 VA	500 VA			1	1	20 A	Service Cord	8	
9	Service Cord	20 A	1	1		1000 VA	1000 VA		1	1	20 A	Service Cord	10	
11	Service Cord	20 A	1	1			500 VA	1600 VA	1	1	20 A	Service Cord	12	
13	OH DOOR 2	20 A	1		1600 VA	1600 VA			1	20 A	OH DOOR 3	14		
15	OH DOOR 4	20 A	1			1600 VA	1600 VA		1	20 A	OH DOOR 5	16		
17	OH DOOR 6	20 A	1				1600 VA	1600 VA	1	20 A	OH DOOR 7	18		
19	App Bay 122	20 A	1		540 VA	900 VA			1	20 A	App Bay 122	20		
21	App Bay 122	20 A	1			720 VA	900 VA		1	20 A	App Bay 122	22		
23	App Bay 122	20 A	1				900 VA	400 VA	1	20 A	CLG FANS	24		
25	CLG FANS	20 A	1		400 VA	1000 VA			1	20 A	GEN. CHR.G.	26		
27	SOFFIT REC.	20 A	1			180 VA	180 VA		1	20 A	Receptacles	28		
29	CO/NOX Sys.	20 A	1				1000 VA	360 VA	1	20 A	Weight Rm. 124	30		
31	Drying Cabinet	20 A	1		180 VA	540 VA			1	20 A	Weight Rm. 124	32		
33	Decon 123	20 A	1			360 VA	1000 VA		1	20 A	GEN. HTR.	34		
35	Spare	20 A	1				0 VA	3200 VA	1	20 A	RAD. HTR.	36		
37	Spare	20 A	1		0 VA	3200 VA			1	20 A	RAD. HTR.	38		
39	FC-2A/2B	15 A	2			300 VA	0 VA		1	20 A	Spare	40		
41	--	--	--				300 VA	0 VA	1	20 A	Spare	42		
43	DH-1	20 A	3		5000 VA	0 VA			3	30 A	TOG WASH	44		
45	--	--	--			5000 VA	0 VA		--	--	--	46		
47	--	--	--				5000 VA	0 VA	--	--	--	48		
49	ATU1-1	20 A	3		933 VA	367 VA			3	20 A	ATU1-2	50		
51	--	--	--			933 VA	367 VA		--	--	--	52		
53	--	--	--				933 VA	367 VA	--	--	--	54		
Total Load:					18835 VA	17140 VA		18760 VA						

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	1575 VA	125.00%	1969 VA	
Motor	38900 VA	80.00%	31120 VA	Total Conn. Load: 54735 VA
Power	4000 VA	70.00%	2800 VA	Total Est. Demand: 43071 VA
Receptacles	10260 VA	70.00%	7182 VA	Total Conn. Current: 152 A
				Total Est. Demand... 120 A

Branch Panel: C														
LOCATION:			MOUNTING: Flush			A.I.C RATING			MOUNTING: Flush			A.I.C RATING		
SUPPLY FROM: MDP			ENCLOSURE: Type 1			MAINS TYPE: M.L.O			ENCLOSURE: Type 1			MAINS TYPE: M.L.O		
VOLTAGE: 120/208 Wye-3-4			MCB RATING: 1 A			MAINS RATING: 225 A			MCB RATING: 1 A			MAINS RATING: 225 A		
CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT		
1	Lighting	20 A	1		699 VA	317 VA			1	20 A	Lighting	2		
3	Lighting	20 A	1			688 VA	1260 VA		1	20 A	Toilet 107.9	4		
5	Kitchen 114	20 A	1	1			1780 VA	1080 VA	1	1	20 A	Kitchen 114	6	
7	Kitchen 114	20 A	1		180 VA	360 VA			1	20 A	Kitchen 114	8		
9	Kitchen 114	20 A	1			540 VA	360 VA		1	20 A	Kitchen 114	10		
11	Kitchen 114	20 A	1				540 VA	360 VA	1	20 A	Kitchen 114	12		
13	Kitchen 114	20 A	1		180 VA	180 VA			1	20 A	Kitchen 114	14		
15	Kitchen 114	20 A	1			720 VA	360 VA		2	1	20 A	Dayroom 114	16	
17	Jan. 104	20 A	1	2			540 VA	1080 VA	2	1	20 A	DORMS	18	
19	DORMS	20 A	1	2	1260 VA	1080 VA			2	1	20 A	DORMS	20	
21	EUH-1	20 A	1			1500 VA	180 VA		1	1	20 A	REFRIG.	22	
23	REFRIG.	20 A	1	1			180 VA	180 VA	1	1	20 A	REFRIG.	24	
25	RANGE	50 A	2	1	4160 VA	1267 VA			3	30 A	ATU1-3	26		
27	--	--	--			4160 VA	1267 VA		--	--	--	28		
29	Gas Valve	20 A	1				1600 VA	1267 VA				30		
31	Decon Damp.	20 A	1		2000 VA	0 VA			1	20 A	Spare	32		
33	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	34		
35	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	36		
37	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	38		
39	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	40		
41	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	42		
Total Load:					11072 VA	11034 VA		8607 VA						

NOTES:

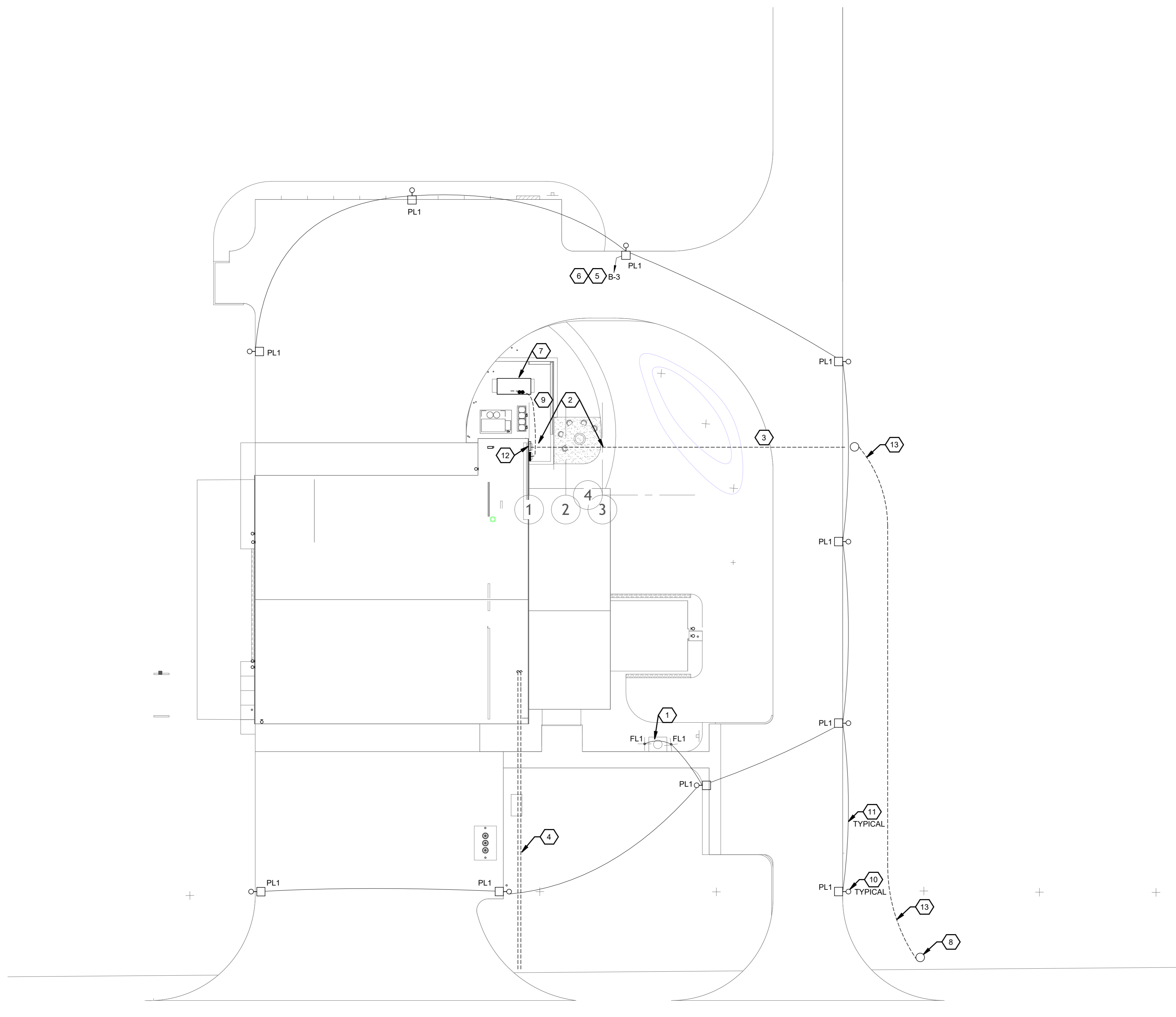
Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	1436 VA	125.00%	1796 VA	
Other	4700 VA	70.00%	3290 VA	Total Conn. Load: 30687 VA
Power	6340 VA	70.00%	4438 VA	Total Est. Demand: 22082 VA
Receptacles	18580 VA	70.00%	13006 VA	Total Conn. Current: 85 A
				Total Est. Demand... 61 A

Branch Panel: B														
LOCATION:			MOUNTING: Surface			A.I.C RATING			MOUNTING: Surface			A.I.C RATING		
SUPPLY FROM: MDP			ENCLOSURE: Type 1			MAINS TYPE: M.L.O			ENCLOSURE: Type 1			MAINS TYPE: M.L.O		
VOLTAGE: 120/208 Wye-3-4			MCB RATING: 1 A			MAINS RATING: 225 A			MCB RATING: 1 A			MAINS RATING: 225 A		
CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT		
1	Lighting	20 A	1		242 VA	569 VA			1	20 A	Lighting	2		
3	Site Lighting	20 A	1			651 VA	720 VA		1	20 A	IT 105	4		
5	IT 105	20 A	1				720 VA	720 VA	1	20 A	Report Rm. 117	6		
7	Report Rm. 117	20 A	1		360 VA	180 VA			1	20 A	Service Cord	8		
9	Report Rm. 117	20 A	1			360 VA	180 VA		1	20 A	Washer	10		
11	App Bay 122	20 A	1				180 VA	360 VA	1	20 A	Decon 119	12		
13	WH-1	20 A	1		180 VA	540 VA			1	20 A	TOG 118	14		
15	Ice Maker	20 A	1	1		180 VA	1260 VA		1	20 A	Exterior Rec.	16		
17	EF-2	20 A	1				1600 VA	10000...	3	20 A	EF-1	18		
19	EF-4	20 A	1		1600 VA	10000...			--	--	--	20		
21	EF-5	20 A	1			1600 VA	10000 VA		--	--	--	22		
23	EF-7	20 A	1				1600 VA	500 VA	2	15 A	FC-1	24		
25	FC-3	15 A	2		500 VA	500 VA			--	--	--	26		
27	--	--	--			500 VA	500 VA		2	15 A	FC-4	28		
29	FC-5	15 A	2				500 VA	500 VA	--	--	--	30		
31	--	--	--		500 VA	1500 VA			2	20 A	FC-6	32		
33	ATU1-5	20 A	3			333 VA	1500 VA		--	--	--	34		
35	--	--	--				333 VA	500 VA	2	60 A	AIR COMP.	36		
37	--	--	--		333 VA	500 VA			--	--	--	38		
39	Other	20 A	3			833 VA	2496 VA		1	2	30 A	Dryer	40	
41	--	--	--			833 VA	2496 VA		--	--	--	42		
43	--	--	--		833 VA	500 VA			2	15 A	BS-1	44		
45	EUH-2	20 A	3			500 VA	500 VA		--	--	--	46		
47	--	--	--				500 VA		--	--	--	48		
49	--	--	--		500 VA	1500 VA			1	20 A	EUH-1	50		
51	EUH-3	20 A	3			833 VA	500 VA		3	20 A	EUH-2	52		
53	--	--	--			833 VA	500 VA		--	--	--	54		
55	--	--	--		833 VA	500 VA			1	30 A	IT 105	56		
57	--	--	--				4992 VA		1	30 A	Spare	58		
59	Motor	20 A	1			0 VA	1600 VA	0 VA	3	20 A	Spare	60		
61	--	--	--			0 VA			--	--	--	62		
63	Spare	20 A	1			0 VA	0 VA		--	--	--	64		
65	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	66		
67	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	68		
69	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	70		
71	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	72		
Total Load:					22169 VA	28438 VA		24276 VA						

NOTES:

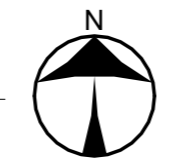
Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	1460 VA	125.00%	1825 VA	
Motor	41000 VA	80.00%	32800 VA	Total Conn. Load: 74883 VA
Other	9500 VA	70.00%	6650 VA	Total Est. Demand: 57321 VA
Power	7000 VA	70.00%	4900 VA	Total Conn. Current: 208 A
Receptacles	15924 VA	70.00%	11147 VA	Total Est. Demand... 159 A

Switchboard: MDP											
LOCATION:			Volts: 120/208 Wye			A.I.C Rating:			MOUNTING: Surface		
Supply From: MDP			Phases: 3			Mains Type: M.L.O			ENCLOSURE: Type 1		
VOLTAGE: 120/208 Wye-3-4			Wires: 4			Mains Rating: 600 A			MCB Rating: 1 A		
Notes:											
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Wire Size	Feed	Cond. Size			
1	PANEL 'A'	3	200 A	200 A	54735 VA	3-#4/0, 1-#4/0, 1-#6		2"			
2	PANEL 'B'	3	200 A	200 A	74883 VA	3-#4/0, 1-#4/0, 1-#6		2"			
3	PANEL 'C'	3	200 A	200 A	30687 VA	3-#4/0, 1-#4/0, 1-#6		2"			
4	DOAS-1										



CAMPBELL ROAD

SITE PLAN
SCALE: 1" = 20'-0"



- # CONSTRUCTION NOTES**
- COORDINATE FLAG POLE LIGHTS WITH INSTALLER.
 - UNDER GROUND SERVICE ENTRANCE CONDUCTORS TO CT CABINET ON EXTERIOR WALL (WITH METERING) PER AES REQUIREMENTS.
 - PROVIDE CONCRETE ENCASUREMENT ON UNDERGROUND PRIMARY AND SECONDARY SERVICE CONDUITS WHERE CROSSING DRIVEWAYS, ROADS, PARKING.
 - PROVIDE TWO (4") UNDERGROUND CONDUITS FROM UTILITY POLE TO RISE UP TO IT ROOM.
 - UTILIZE #10 AWG CONDUCTORS.
 - CIRCUIT EXTERIOR LIGHTS THRU EXTERIOR LIGHTING RELAY PANEL LOCATED IN ELECTRICAL ROOM.
 - STANDBY GENERATOR
 - NEW UTILITY POLE MOUNT TRANSFORMER.
 - CONDUITS FROM STANDBY GENERATOR FOR OUTPUT FEEDER, BLOCK HEATER, BATTERY CHARGER, REMOTE ANNUNCIATOR, START SIGNAL WIRING, ETC.
 - REFER TO POLE BASE DETAIL, SHEET E0.5
 - REFER TO SAND ENCASED UNDERGROUND DUCT DETAIL, SHEET E0.5.
 - PORTABLE GENERATOR CONNECTION BOX.
 - PROVIDE LONG RADIUS BENDS ON SECONDARY SERVICE CONDUITS.

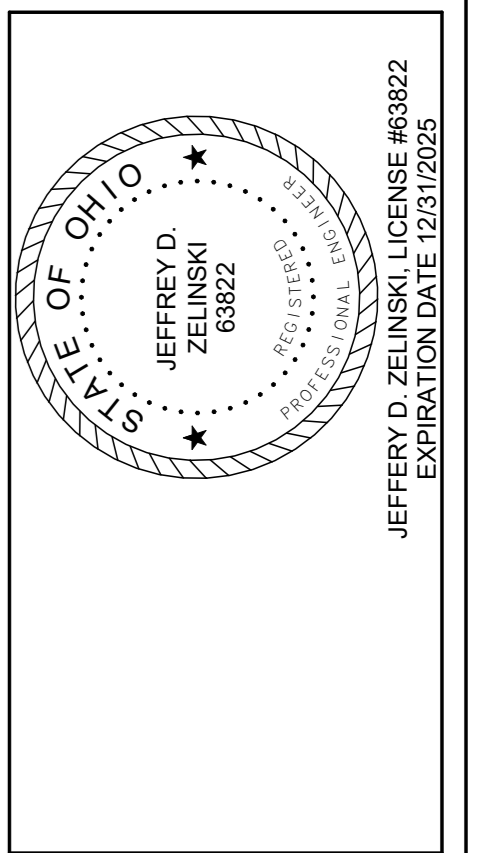
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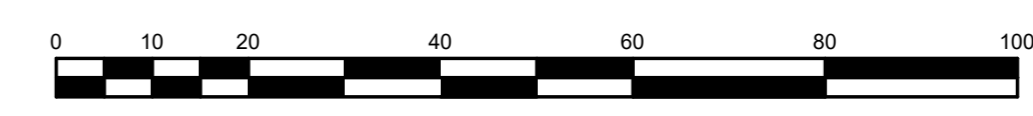


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SITE PLAN

E1.1



SCALE: 1" = 20'-0"

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 233-3651 - Fax: (937) 233-3869
PROJECT # 23015

STORM SHELTER

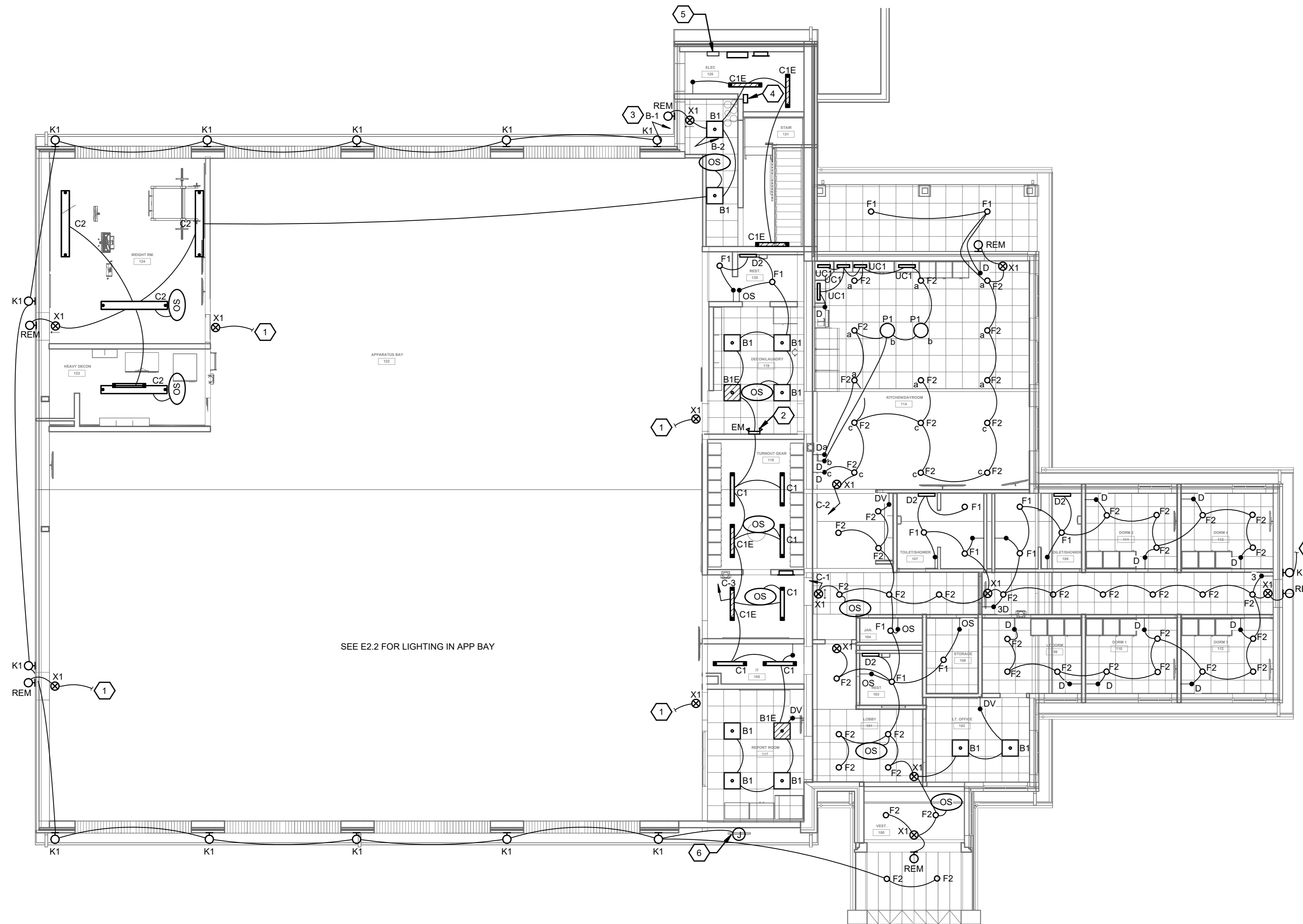
- A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.
- B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

GENERAL NOTES

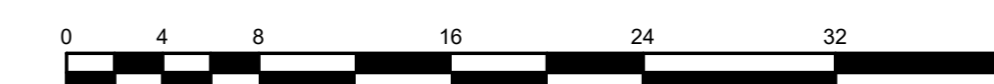
- A. CONNECT ALL EXIT/EMERGENCY EGRESS LIGHTING AHEAD OF LOCAL CONTROLS.

CONSTRUCTION NOTES

1. CONNECT EXIT/EMERGENCY LIGHT TO APPARATUS BAY LIGHTING CIRCUIT AHEAD OF CONTROLS. 10' - 0" MOUNTING HEIGHT UNLESS NOTE OTHERWISE.
2. PROVIDE STANDALONE UPS (1 KW-120V OUTPUT) TO POWER EMERGENCY LIGHTING FIXTURES AND EXHAUST FAN SERVING STORM SHELTER (TOG ROOM AND TOILET). UPS SHALL BE SIZED TO SUPPORT LIGHTING AND FAN LOAD FOR A MINIMUM OF 2 HOURS UPON LOSS OF BUILDING NORMAL AND STANDBY POWER. UPS SHALL BE UL LISTED AND SUITABLE FOR WALL MOUNTING; WITH WALL BRACKET; 1-120V OUTPUT BREAKER; MOUNT ON WALL NEAR CEILING; SERVE FROM 'EMERGENCY' CCT.
3. CIRCUIT LIGHTS TO EXTERIOR LIGHTING RELAY PANEL, LOCATED IN MAIN ELECTRIC ROOM.
4. PROVIDE 4-POLE LIGHTING CONTACTOR WITH 120V COIL FOR CONTROL OF EXTERIOR LIGHTING. PHOTOCELL ON/OFF. LOCATE PHOTOCELL ON ROOF PARAPET ABOVE.
5. LIGHTING RELAY PANEL FOR APP BAY AND EXTERIOR LIGHTING CONTROL.
6. PROVIDE LIGHTING CIRCUIT CONNECTION TO EXTERIOR STATION SIGNAGE.

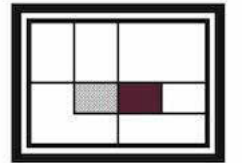


FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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

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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

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JEFFERY D. ZELINSKI LICENSE #63822
EXPIRATION DATE 12/31/2025

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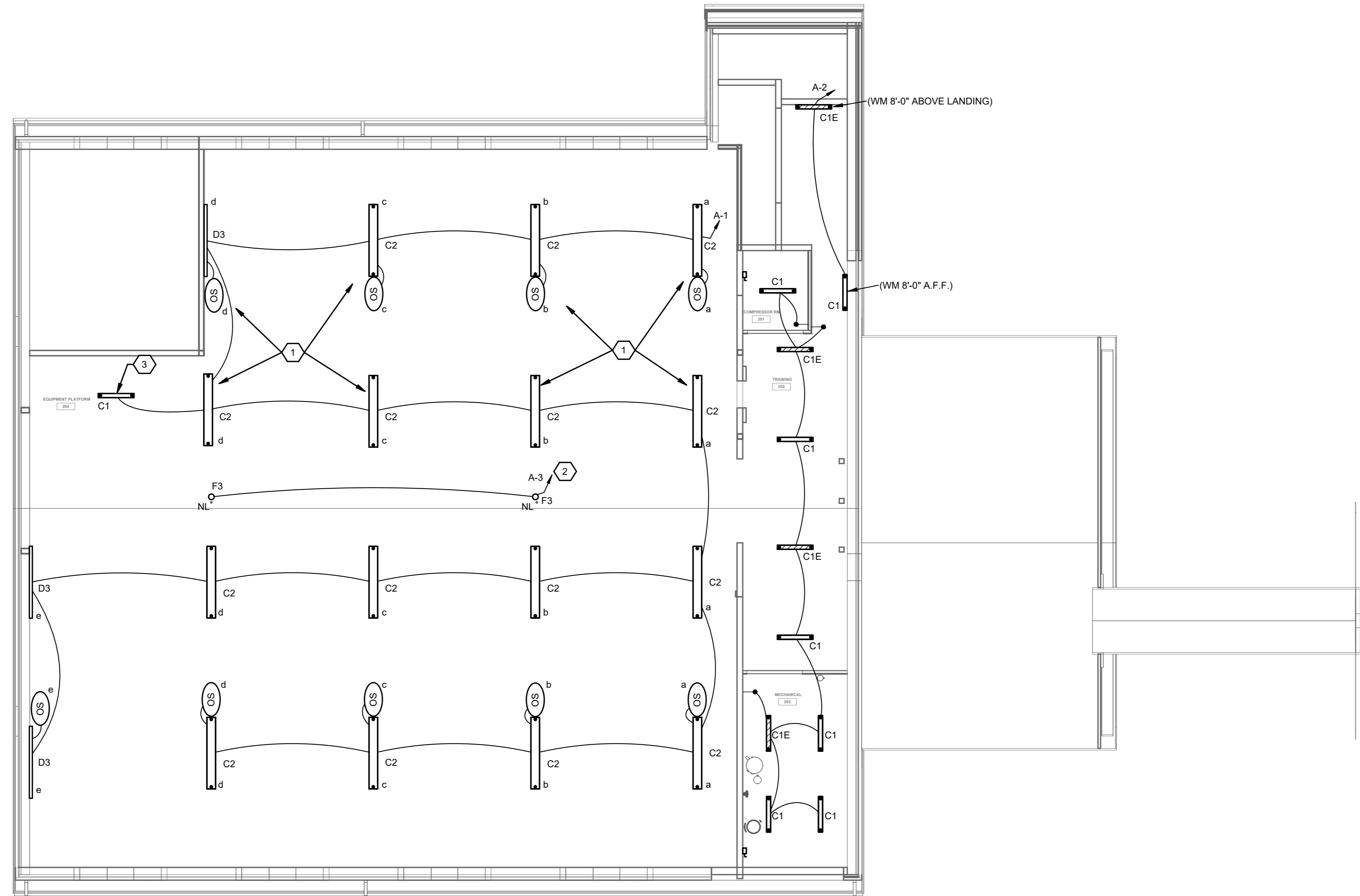
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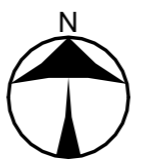
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FIRST FLOOR LIGHTING PLAN

E2.1



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



SCALE: 1"=10'-0"

- CONSTRUCTION NOTES**
- APPARATUS BAY LIGHTS CONTROLLED BY ROW FROM OCCUPANCY SENSORS MOUNTED TO FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN ELECTRIC ROOM. MOUNT UNITS AT SAME HEIGHT AS RADIANT HEATERS.
 - APPARATUS BAY EMERGENCY EGRESS/NIGHT LIGHTS WIRED THRU EMERGENCY LIGHTING INVERTER, LOCATED IN MAIN ELECTRICAL ROOM.
 - SUSPEND LIGHT FIXTURE 9'-0" ABOVE THE MECHANICAL PLATFORM.

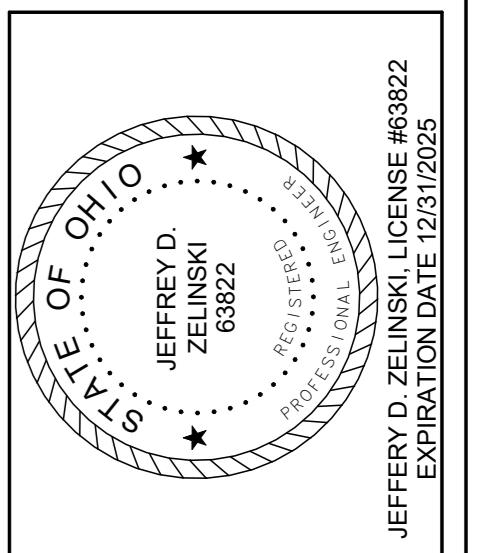
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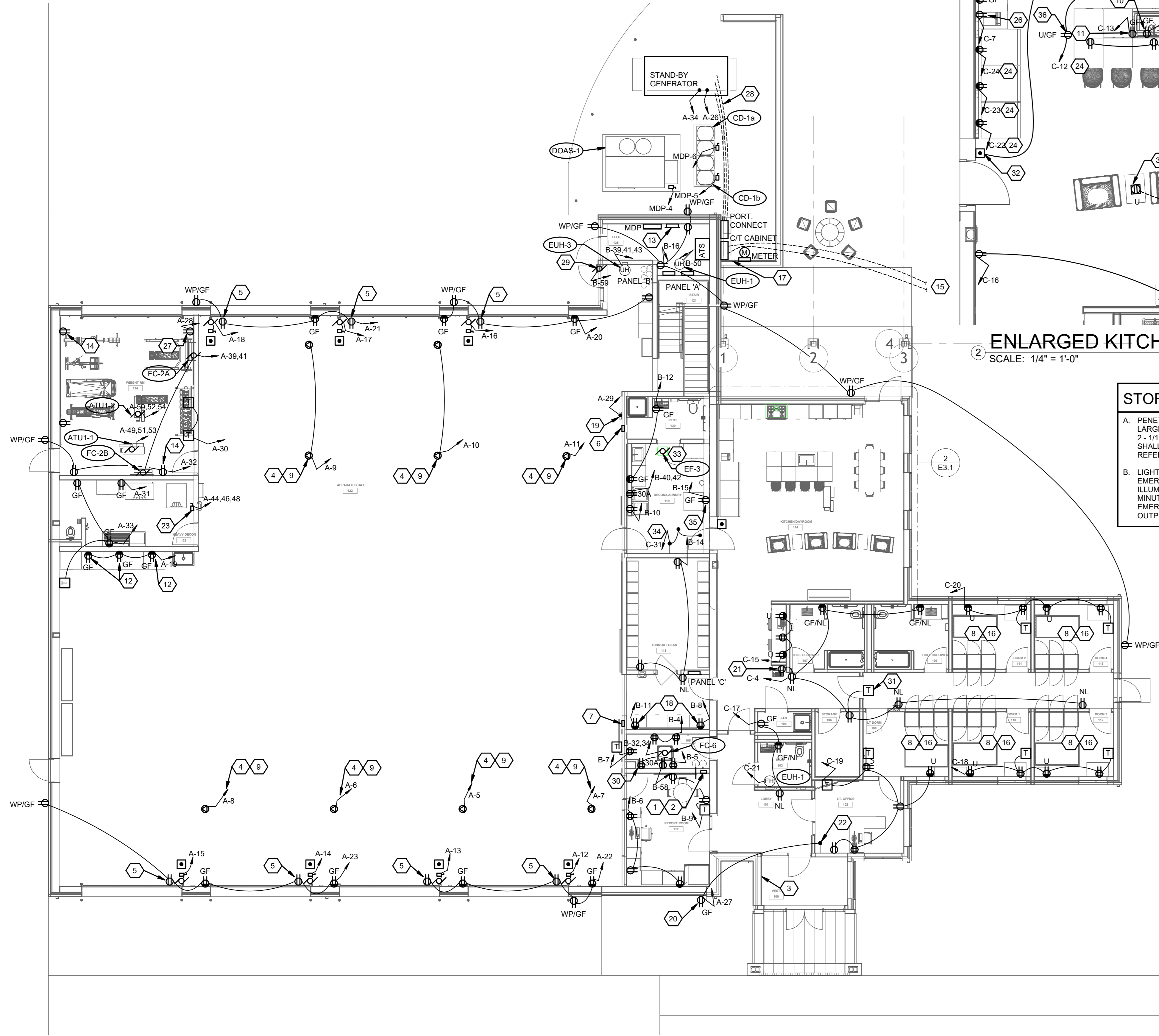
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SECOND FLOOR LIGHTING PLAN	
E2.2	



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

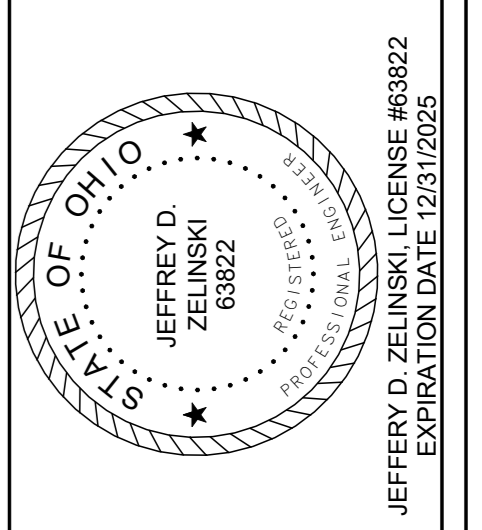
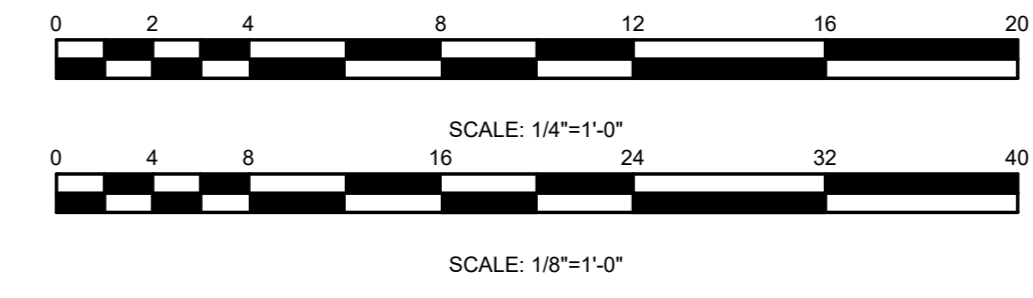
ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"

STORM SHELTER

A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.

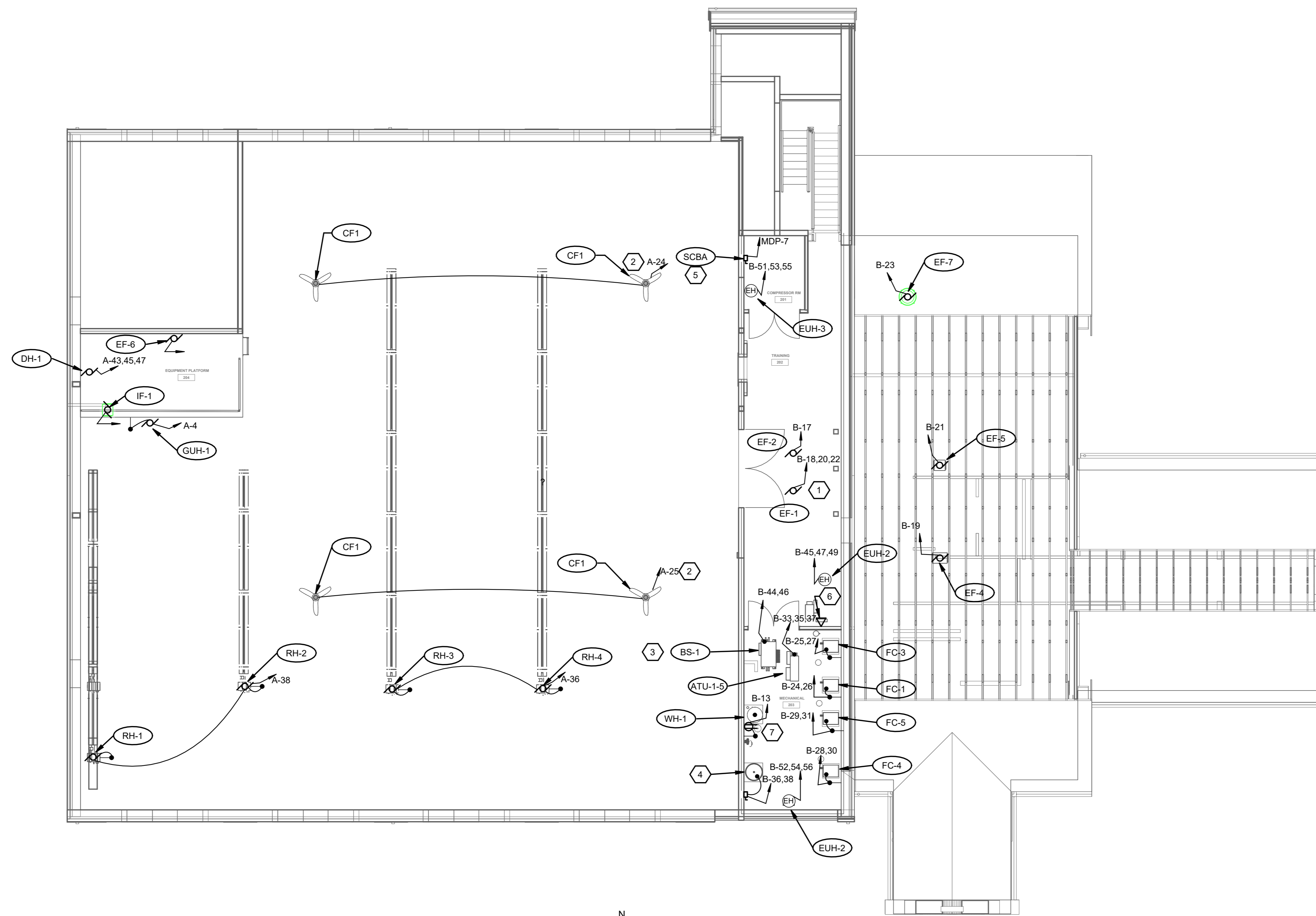
B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

- # CONSTRUCTION NOTES**
- GENERATOR ANNUNCIATOR.
 - FIRE ALARM REMOTE ANNUNCIATOR.
 - FLUSH MOUNTED KNOX BOX.
 - FLUSH MOUNTED TWISTLOCK RECEPTACLE AT CEILING STRUCTURE FOR SERVICE CORD DROP TO VEHICLE BAY.
 - RECEPTACLE MOUNTED AT TOP OF DOOR OPENING TO POWER DOOR POSITION LIGHTS. LIGHTS BY DOOR SYSTEM VENDOR.
 - NORTH APPARATUS BAY CONTROL PANEL REFER TO DETAIL 2 SHEET E0.4.
 - SOUTH APPARATUS BAY CONTROL PANEL. REFER TO DETAIL 3 SHEET E0.4.
 - PROVIDE AFCI CIRCUIT BREAKER FOR DORM ROOM CIRCUIT.
 - E.C. TO PROVIDE A DROP CORD ASSEMBLY CONSISTING OF 25' LONG 1/2" SPOW CORD WITH A NEMA L5-20P 120V-20A PLUG ON ONE END AND A NEMA 5-20R CONNECTOR ON THE OTHER END. PROVIDE A CABLE GRIP EQUAL TO ADALET # 'SKY-TIE' BUS DROP CABLE CLAMP ('SHS' SERIES) AND MOUNT TO CEILING WITH EYE BOLT ATTACHED TO STRUCTURE. MOUNT CONNECTOR AT HEIGHT ABOVE FLOOR PER OWNERS DIRECTION AND COIL AND TIE EXTRA CABLE AT CABLE SUPPORT EYE BOLT NEAR CEILING.
 - GFCI RECEPTACLE IN SINK BASE CABINET FOR GARBAGE DISPOSER. COORDINATE LOCATION WITH P.C. AND PROVIDE MATCHING CORD/PLUG FOR DISPOSER. WIRE RECEPTACLE TO WALL SWITCH ABOVE COUNTER.
 - GFCI RECEPTACLE IN SINK BASE CABINET FOR DISHWASHER. COORDINATE LOCATION WITH P.C. AND PROVIDE MATCHING CORD/PLUG FOR UNIT.
 - PROVIDE PLUGMOLD ABOVE WORK COUNTER, 6' LONG WITH NEMA 5-20R RECEPTACLES SPACED 12" ON-CENTER.
 - MAIN GROUND BAR.
 - RECEPTACLE AT 96" M.H. FOR CONNECTION OF WALL MOUNTED OSCILLATING FAN. PROVIDE FAN EQUAL TO GLOBAL INDUSTRIAL #807050. 24" DIA, 7500 CFM, 120V CORD AND PLUG CONNECTED WITH 3 SPEED/OFF FULLCHAIN CONTROL.
 - UNDERGROUND SERVICE FEEDERS FROM UTILITY TRANSFORMER.
 - COORDINATE MOUNTING HEIGHTS/LOCATIONS OF RECEPTACLES IN DORM ROOMS WITH FURNITURE.
 - UTILITY CT CABINET AND METER PER AES.
 - PLUGMOLD FOR BATTERY CHARGING STATIONS (STACKED) COORDINATE MOUNTING HEIGHT WITH SHELVES. 36" LONG, RECEPTACLES 6" O.C. UTILIZE SAME CIRCUIT FOR BOTH.
 - PROVIDE 120V POWER TO COINOX SYSTEM DETECTION SYSTEM (FURNISHED BY H.C.). COORDINATE LOCATION WITH H.C.
 - RECEPTACLE MOUNTED FLUSH IN SOFFIT, FOR HOLIDAY LIGHTING.
 - GFCI RECEPTACLE FOR WATER COOLER. COORDINATE LOCATION WITH P.C.
 - PROVIDE WALL SWITCH FOR CONTROL OF SOFFIT RECEPTACLE.
 - COORDINATE POWER CONNECTION AND FUSING REQUIREMENTS FOR TOG WASHER WITH EQUIPMENT SUPPLIER.
 - PROVIDE GFCI CIRCUIT BREAKER FOR CIRCUIT.
 - PROVIDE 120V POWER TO EXHAUST HOOD FOR CONNECTION TO EXHAUST FAN EF-3, RANGE CONTROL CIRCUIT AND HOOD LIGHT(S). HOOD INCLUDES FIRE SUPPRESSION SYSTEM FOR RANGE CONTROL POWER CIRCUIT AND GAS SUPPLY SOLENOID VALVE CONTROL. COORDINATE RUGH-IN REQUIREMENTS AND WIRING WITH EQUIPMENT SUPPLIER.
 - COORDINATE RECEPTACLE MOUNTING HEIGHT, LOCATION, WITH MICROWAVE SHELF. REFER TO ARCHITECTURAL ELEVATIONS.
 - DEDICATED 20A-120V CIRCUIT FOR TREADMILL.
 - UNDERGROUND STAND-BY FEEDERS, START/ANNUNCIATOR WIRING, BLOCK HEATER, BATTERY CHARGER, HOUSING CIRCUITS FROM GENERATOR TO POTRABLE CONNECTION BOX TO ATS.
 - PROVIDE 120V POWER AND SERVICE DISCONNECT TO BOOSTER FAN FOR DRYER EXHAUST. COORDINATE WITH H.C.
 - COORDINATE RECEPTACLE CONFIGURATION WITH OWNER FOR DATA RACK.
 - LOCATE TV WALL BOX ABOVE DOOR FRAME.
 - PROVIDE MAINTAINED CONTACT MUSHROOM HEAD EMERGENCY STOP BUTTON TO DE-ENERGIZE POWER TO GAS SOLENOID VALVE FOR KITCHEN RANGE. COORDINATE WIRING REQUIREMENTS WITH P.C.
 - CONNECT EXHAUST FAN SERVING STORM SHELTER TO UPS SERVING LIGHTING IN DECON / TOILET ROOMS.
 - 120V POWER TO DAMPER ACTUATOR AT THIS LOCATION. PROVIDE 120V WALL SWITCH FOR MANUAL DAMPER CONTROL.
 - RECEPTACLE FOR ICE MAKER. COORDINATE LOCATION WITH ARCHITECT.
 - MOUNT RECEPTACLE IN FACE OF ISLAND CASEWORK.
 - FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND SCRUB SHIELD COVER, SATIN NICKEL TRIM. EQUAL TO HUBBELL SYSTEM ONE, 4" FLOOR BOX.

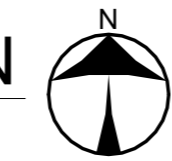


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FIRST FLOOR POWER PLAN	
E3.1	



SECOND FLOOR POWER AND SYSTEMS PLAN
 SCALE: 1/8" = 1'-0"



- CONSTRUCTION NOTES**
1. PROVIDE AUXILIARY 120V CONTROL CIRCUIT FOR EXHAUST FAN ECM CONTROLLER.
 2. GROUP CONTROLLER FOR CEILING CIRCULATION FANS LOCATED IN APPARATUS BAY (SOUTH) CONTROL PANEL.
 3. COORDINATE CIRCUIT REQUIREMENTS AND LOCATION OF BRANCH SELECTOR BOX WITH H.C.
 4. COORDINATE POWER REQUIREMENTS AND FUSING SIZE FOR AIR COMPRESSOR WITH P.C.
 5. COORDINATE POWER REQUIREMENTS AND FUSING SIZE FOR SCBA COMPRESSOR WITH EQUIPMENT SUPPLIER.
 6. DATA ROUGH-IN BOX REFER TO TECHNOLOGY PLANS.
 7. COORDINATE POWER CONNECTION TO WATER HEATER AND RECIRC. PUMP WITH P.C.

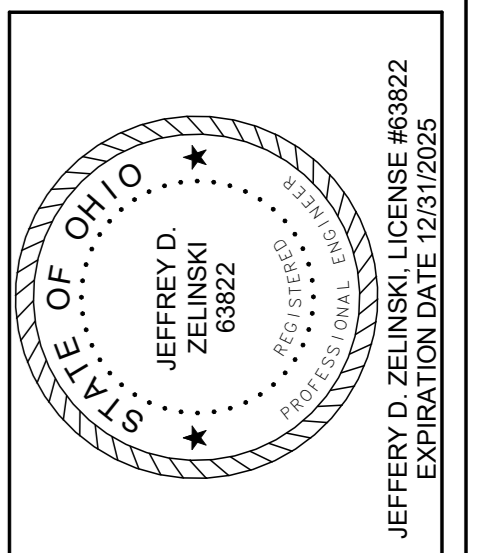
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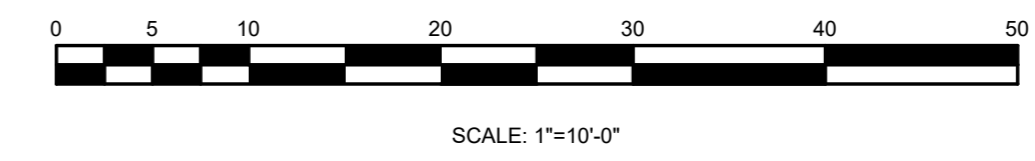


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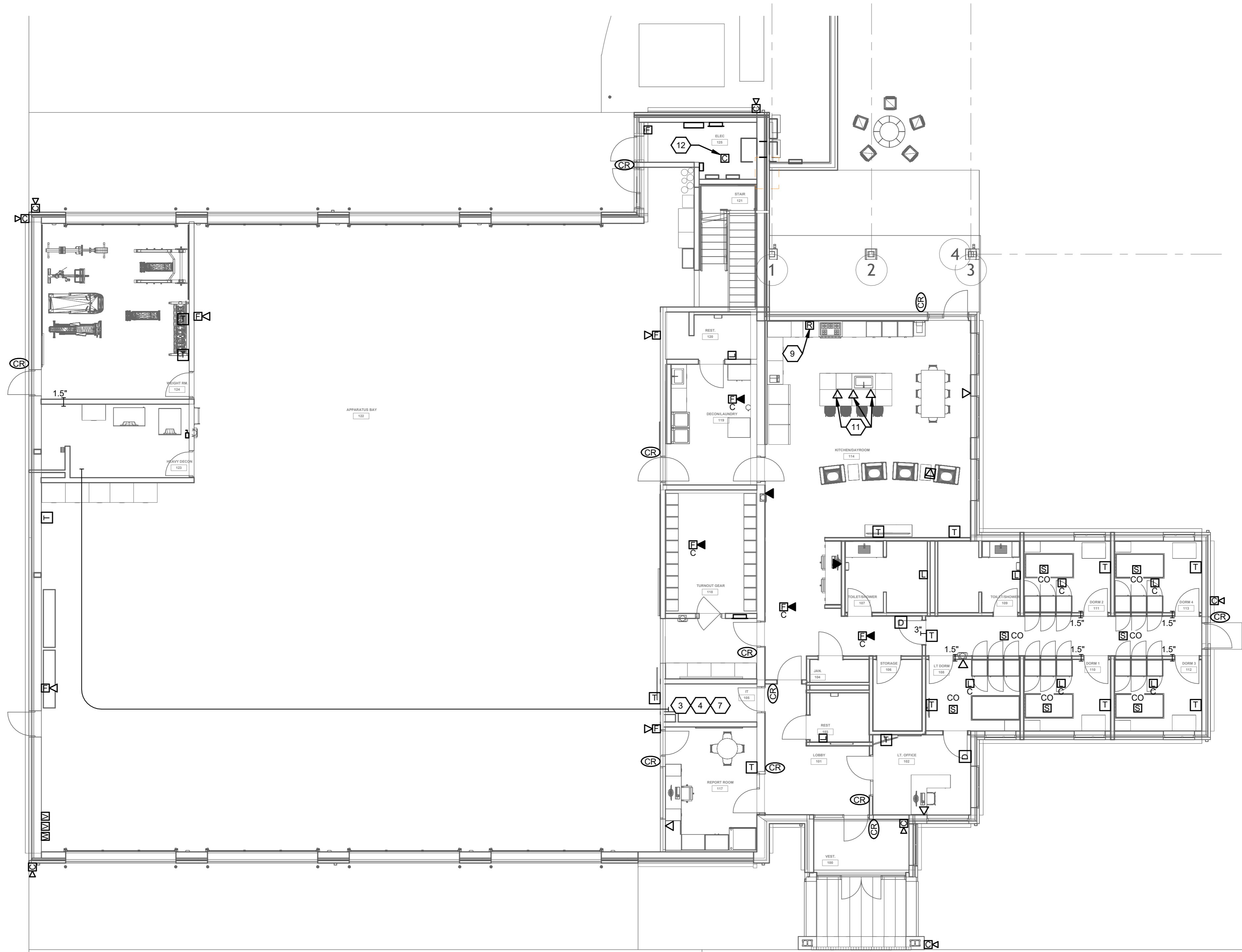
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SECOND FLOOR POWER AND SYSTEMS PLAN

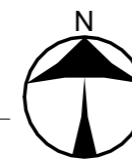
E3.2



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



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

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone (937) 223-3851 - Fax (937) 223-3849
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GENERAL NOTES

A. THE E.C. SHALL REFER TO TECHNOLOGY PLANS, DETAILS, AND SPECIFICATIONS FOR ROUGH-IN BOX, RACEWAY, AND PATHWAY REQUIREMENTS FOR TECHNOLOGY / AV SYSTEMS.

CONSTRUCTION NOTES

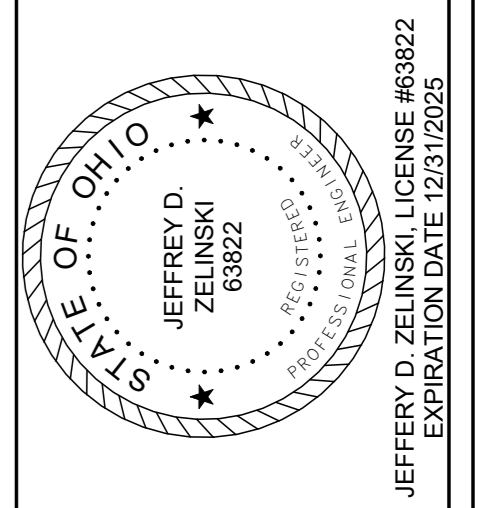
1. PROVIDE TWO GANG BOX WITH 1.25" CONDUIT TO TV WALL BOX FOR AV CABLING (BY OWNER). COORDINATE LOCATIONS AND COVER PLATES WITH OWNER.
2. PROVIDE 3" C. ACROSS APPARATUS BAY, AT CEILING STRUCTURE, FOR FIRE ALARM CABLING.
3. PROVIDE 3/4" PLYWOOD, 3 WALLS, FOR DATA, IT EQUIPMENT.
4. PROVIDE TWO 3" C. ACROSS APPARATUS BAY, AT CEILING STRUCTURE, FOR SYSTEMS CABLING (DATA, SECURITY, LOCATION, FIRE ALARM, ETC.).
5. PROVIDE BACKBOX AT CEILING STRUCTURE AND DATA CABLING IN 1" C. ACROSS APPARATUS BAY IT ROOM.
6. REFER TO SITE PLAN FOR ROUTING OF SERVICE ENTRANCE CONDUIT TO UTILITY POLE/PEDISTAL.
7. PROVIDE TELECOM GROUND BAR NEAR DATA RACK REFER TO GROUNDING DETAILS, SHEET E0.4
8. PROVIDE ROUGH-IN BOX FOR DOORBELL (VIA FIRE ALARM-CALL SYSTEM).
9. PROVIDE FIRE ALARM MONITOR MODULE FOR CONNECTION TO EXHAUST HOOD/SUPPRESSION SYSTEM.
10. ROUGH-IN SINGLE GANG BOX AND STUBB IN 3/4" CONDUIT FOR REMOTE RELEASE OF ENTRY DOOR LOCK.
11. COORDINATE MOUNTING OF DATA ROUGH-INS TO KITCHEN ISLAND WITH ARCHITECT / OWNER.
12. PROVIDE FIRE ALARM CONTROL RELAY TO SHUNT-CIRCUIT TO APP BAY CEILING FANS UPON FIRE ALARM CONDITION.

STORM SHELTER

- A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.
- B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

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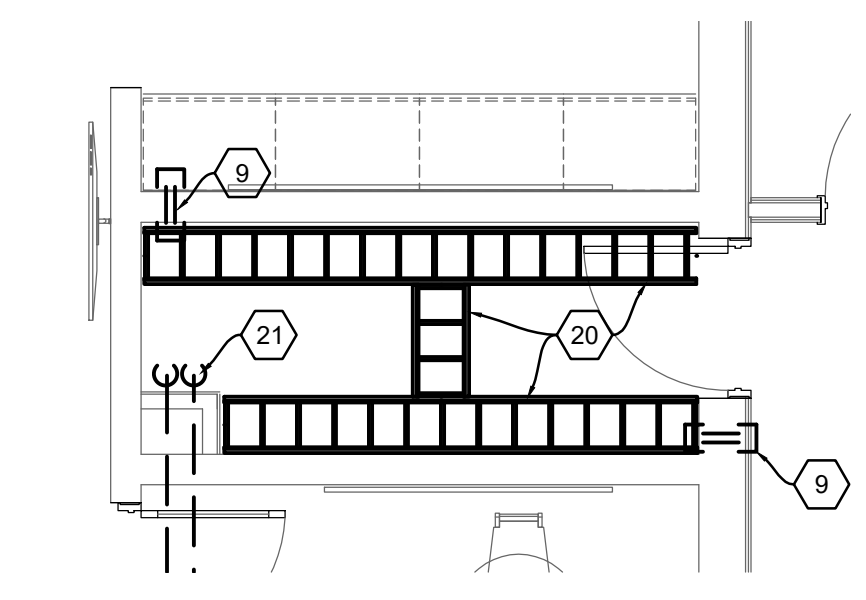
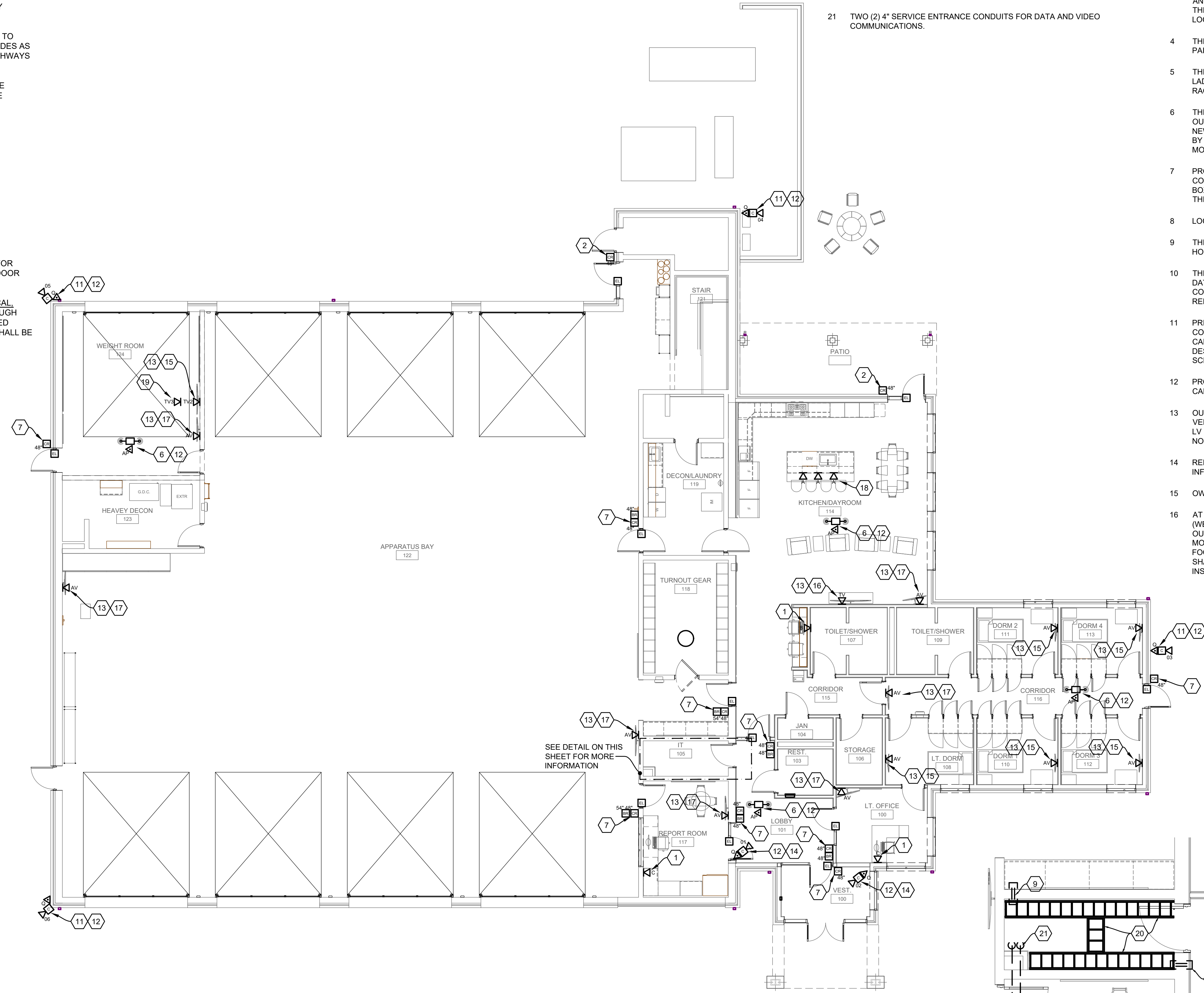
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FIRST FLOOR SYSTEMS PLAN	
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TECHNOLOGY GENERAL NOTES:

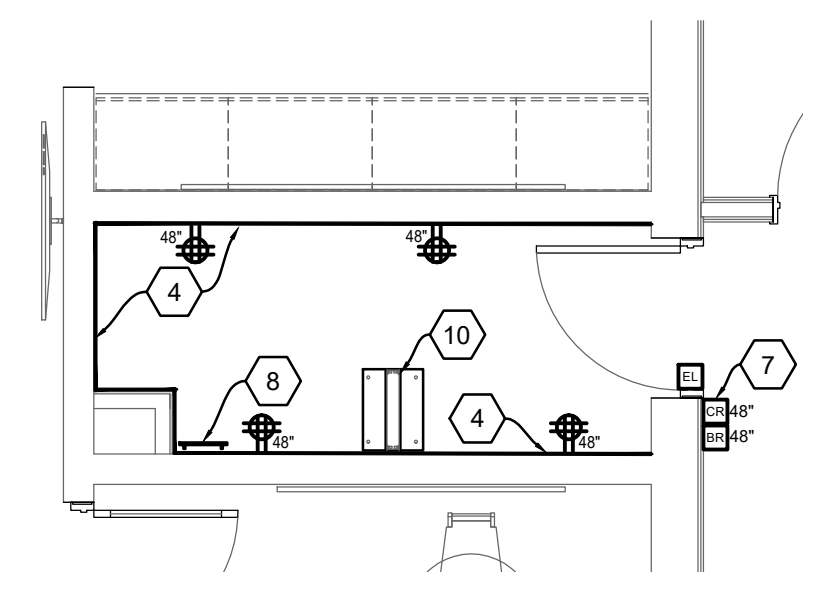
- A ALL WORK AND PROCEDURES PROVIDED, SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL BUILDING CODES.
- B ALL TECHNOLOGY CABLING AND DEVICES SHALL BE INSTALLED IN A MANNER THAT CONFORMS WITH THE STANDARDS AS SET FORTH BY BICSI TDMM (LATEST EDITION), NEC, AND TIA AS APPLICABLE.
- C ALL CASEWORK SHALL BE PROVIDED BY THE GENERAL CONTRACTOR (G.C.). REFER TO THE ARCHITECTURAL CASEWORK DRAWINGS FOR COORDINATION INFORMATION. COORDINATE OUTLET AND DEVICE PLACEMENT WITHIN CASEWORK WITH APPLICABLE CONTRACTOR PRIOR TO THE INSTALLATION. NOTIFY THE ARCHITECT OF ANY CONFLICTS.
- D IT SHALL BE THE DIVISION 27 CONTRACTOR'S RESPONSIBILITY TO DIRECT / COORDINATE ALL WORK PERFORMED BY OTHER TRADES AS IT PERTAINS TO THE INSTALLATION AND /OR ROUTING OF PATHWAYS FOR DIVISION 27 (TECHNOLOGY) AND DIVISION 28 (SECURITY) CABLING AND TO VERIFY ALL DEVICE LOCATIONS PRIOR TO INSTALLATION. ANY DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR THE TECHNOLOGY DESIGNER / CONSULTANT IMMEDIATELY FOR RESOLUTION.
- E ALL CONDUITS, ELECTRICAL BACK BOXES, AND SLEEVES FOR LOW VOLTAGE CABLING INFRASTRUCTURE SHALL BE PROVIDED AND INSTALLED BY THE DIVISION 26 CONTRACTOR UNLESS OTHERWISE NOTED. ALL CONDUITS FOR LOW VOLTAGE CABLING SHALL HAVE BUSHED ENDS.
- F ALL UTP DATA CABLING SHALL BE PLACED IN CONDUIT WHEN RUN WITHIN WALLS AND CONCEALED AREAS. ALL CABLING AND WIRING THAT IS NOT INSTALLED WITHIN CONDUIT SHALL BE SUPPORTED EVERY 48"-60" WITH J-TYPE HOOKS SIZED ADEQUATELY PER N.E.C. AND BICSI. THE USE OF BRIDLE RINGS IS NOT PERMITTED.
- G REFER TO THE DIVISION 08 SPECIFICATIONS AND DRAWINGS FOR INFORMATION PERTAINING TO THE ELECTRONIC LOCKS AND DOOR POSITION SWITCHES.
- H PENETRATIONS OF STORM SHELTER ENVELOPE BY MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2" SQUARED AREA FOR RECTANGULAR OPENING OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND SHALL BE PROVIDED WITH A PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.

CODED NOTES:

- 1 THE TECHNOLOGY CABLING CONTRACTOR SHALL PROVIDE A NEW OUTLET AND CABLING, TO THE IT / DATA ROOM, TYPE AS INDICATED WITH A NEW 4" SQUARE 3-1/4"D BACKBOX, AND A DEDICATED MINIMUM 1" CONDUIT EXTENDED HORIZONTALLY AND VERTICALLY AS REQUIRED TO CEILING, OR A WALL CADDY IN CASES WHERE WALL CAVITY WILL ALLOW. REFER TO THE TECHNOLOGY OUTLET DETAILS FOR MORE REQUIREMENTS.
- 2 PROVIDE A MULLION STYLE CARD READER AT THIS LOCATION. COORDINATE THE CABLING PATHWAY IN THE FIELD WITH ALL APPLICABLE TRADES.
- 3 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN AV OUTLET AND ELECTRICAL BOXES WITH ALL NECESSARY CONDUITS AS SHOWN IN THE AV ELEVATION DETAIL "A" ON SHEET T-901. COORDINATE FINAL LOCATIONS OF THE WALL BOXES WITH THE OWNERS AV REPRESENTATIVE.
- 4 THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4' X 8' X 3/4" WALL BOARD PAINTED WITH FIRE RETARDANT PAINT AS SHOWN.
- 5 THE TECHNOLOGY CABLING CONTRACTOR SHALL PROVIDE NEW 18" CABLE LADDER RACK AS SHOWN. MAINTAIN A 6" CLEARANCE ABOVE ALL DATA RACKS.
- 6 THE TECHNOLOGY CABLING CONTRACTOR SHALL PROVIDE A NEW SURFACE OUTLET AND CABLING, TO THE IT / DATA ROOM, TYPE AS INDICATED FOR NEW WIRELESS ACCESS POINT LOCATION. ACCESS POINT TO BE INSTALLED BY OTHERS. COORDINATE EXACT LOCATION OF ACCESS POINTS AND MOUNTING LOCATIONS WITH OWNER.
- 7 PROVIDE TWO (2) SINGLE GANG ELECTRICAL BOXES SIDE BY SIDE WITH A 1" CONDUIT AT 48" AFG. ONE BOX FOR A PROXIMITY CARD READER AND ONE BOX FOR A BIOMETRIC READER. WHERE WALL SPACE IS LIMITED, STACK THE BOXES.
- 8 LOCATION OF THE NEW TELECOMMUNICATIONS GROUNDING BUSBAR.
- 9 THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 4" SLEEVE FOR HORIZONTAL LOW VOLTAGE CABLING.
- 10 THE TECHNOLOGY CABLING CONTRACTOR SHALL PROVIDE A NEW 2-POST DATA RACK SECURED TO THE FLOOR. COORDINATE THE AC POWER CONNECTIONS FOR THE DATA RACK WITH THE EC AND THE OWNERS IT REPRESENTATIVE.
- 11 PRIOR TO THE INSTALLATION OF THE CONDUIT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELEVATION OF THE EXTERIOR CCTV CAMERA'S ELECTRICAL BACK BOX WITH THE OWNER TO INSURE THE DESIRED FIELD OF VIEW CAN BE PROVIDED. REFER TO THE CAMERA SCHEDULE ON SHEET T-901 FOR MORE INFORMATION.
- 12 PROVIDE A 10' SERVICE LOOP IN THE DATA CABLE AT ALL SECURITY CAMERA AND WIRELESS ACCESS POINT LOCATIONS.
- 13 OUTLET MOUNTING HEIGHTS FOR THE VIDEO DISPLAYS AND TV'S SHALL BE VERIFIED IN THE FIELD AND COORDINATED WITH ALL APPLICABLE TRADES. LV OUTLET SHALL BE LOCATED NEXT TO THE AC POWER OUTLET AND SHALL NOT INTERFERE WITH THE VIDEO DISPLAY MOUNTING SYSTEM.
- 14 REFER TO THE CAMERA SCHEDULE ON SHEET T-901 FOR MORE INFORMATION.
- 15 OWNER PROVIDED AND INSTALLED 43" TV COMPLETE WITH WALL MOUNT.
- 16 AT THIS LOCATION ONLY, PROVIDE AND INSTALL AN RG6 COAXIAL CABLE (WEST PENN 29841) FROM THE TV OUTLET TO THE IT ROOM. AT THE TV OUTLET, TERMINATE THE CABLE WITH A 75-OHM F-TYPE COUPLER MODULE MODEL K5FCN (FOG WHITE) BY LEGRAND. WITHIN THE IT ROOM LEAVE A 20 FOOT SERVICE LOOP ON THE UNTERMINATED CABLE. THE CATV VENDOR SHALL TERMINATE THE CABLE IN THE IT ROOM. OWNER PROVIDED AND INSTALLED 75" TV COMPLETE WITH WALL MOUNT.



IT ROOM ABLE LADDER LAYOUT
1/4"=1'-0"



IT ROOM #105 FLOOR PLAN
1/4"=1'-0"

OVERALL TECHNOLOGY FIRST FLOOR PLAN
1/8"=1'-0"

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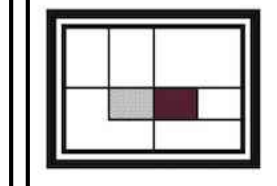
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DRAWN BY	CHECKED BY
MHW	MW/MG
OVERALL TECHNOLOGY FIRST FLOOR PLAN	
T-100	



TECHNOLOGY MEZZANINE FLOOR PLAN
 1/8"=1'-0" 

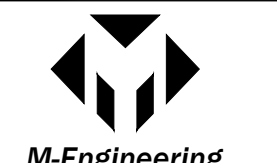
- CODED NOTES:**
- 1 THE TECHNOLOGY CABLING CONTRACTOR SHALL PROVIDE A NEW OUTLET AND CABLING, TO THE IT / DATA ROOM, TYPE AS INDICATED WITH A NEW 4" SQUARE 3-1/4"D BACKBOX, AND A DEDICATED MINIMUM 1" CONDUIT EXTENDED HORIZONTALLY AND VERTICALLY AS REQUIRED TO CEILING, OR A WALL CADDY IN CASES WHERE WALL CAVITY WILL ALLOW. REFER TO THE TECHNOLOGY OUTLET DETAILS FOR MORE REQUIREMENTS.



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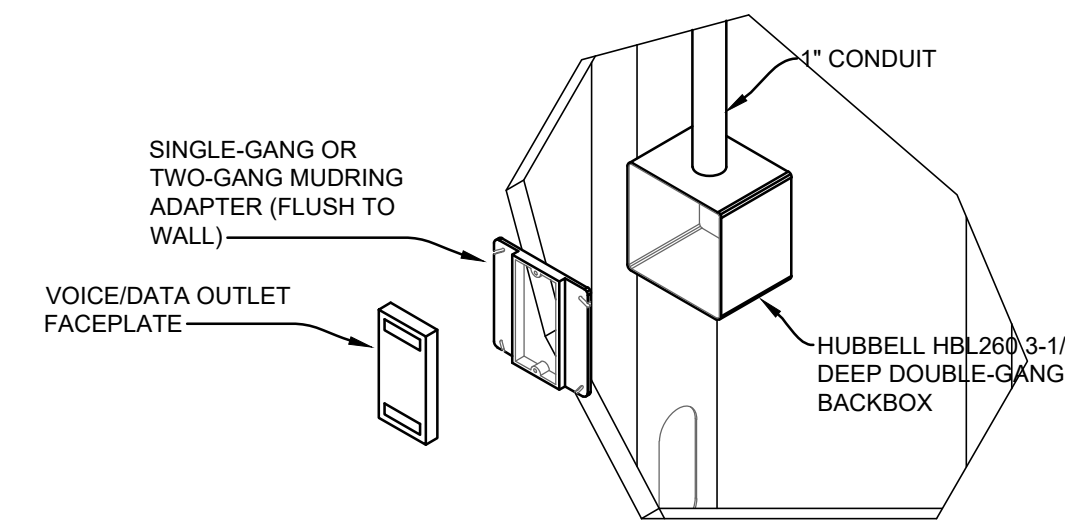
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MHW	MW/MG
OVERALL TECHNOLOGY MEZZANINE PLAN	

T-200

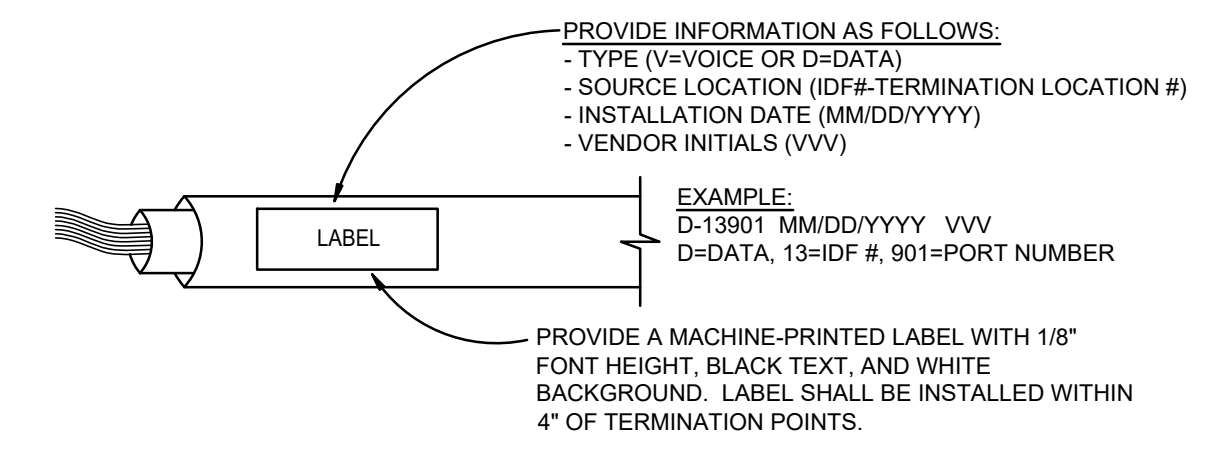
SECURITY, & TECHNOLOGY SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE UNLESS NOTED OTHERWISE
	WALL JUNCTION BOX	SEE DRAWINGS
	FLOOR BOX OR FLOOR POKE OUTLET SEE THIS SHEET FOR OUTLET DETAILS	FLOOR
	VOICE/DATA CEILING/FLOATING OUTLET SEE THIS SHEET FOR OUTLET DETAILS	AS NOTED
	VOICE/DATA WALL OR FURNITURE OUTLET. SEE THIS SHEET FOR OUTLET DETAILS	18" AFF OR AS NOTED
	WIRELESS ACCESS POINT	CEILING
	NEW SPEAKER CEILING PENDANT TYPE "A"	SEE DRAWINGS
	NEW SPEAKER SURFACE MNT TYPE "B"	SEE DRAWINGS
	ELECTRIC STRIKE	SEE DRAWINGS
	ACCESS CONTROL CARD READER	48" AFF
	ACCESS CONTROL BIOMETRIC READER	AS NOTED
	DOOR POSITION CONTACT	SEE DRAWINGS
	REQUEST TO EXIT SENSOR	AS REQUIRED
	MANUAL REQUEST TO EXIT PUSHBUTTON	48" AFF
	CCTV CAMERA	SEE DRAWINGS

CONTRACTOR RESPONSIBILITY NOTE:
 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL "NEW" CONDUITS, PATHWAYS, BACK BOXES, FLOOR BOXES AND FLOOR POKES AS SHOWN ON THE "T" DRAWINGS.

THE TECHNOLOGY CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE CABLES AND AND SUPPORT FOR ALL CABLES NOT CONCEALED WITHIN CONDUIT.



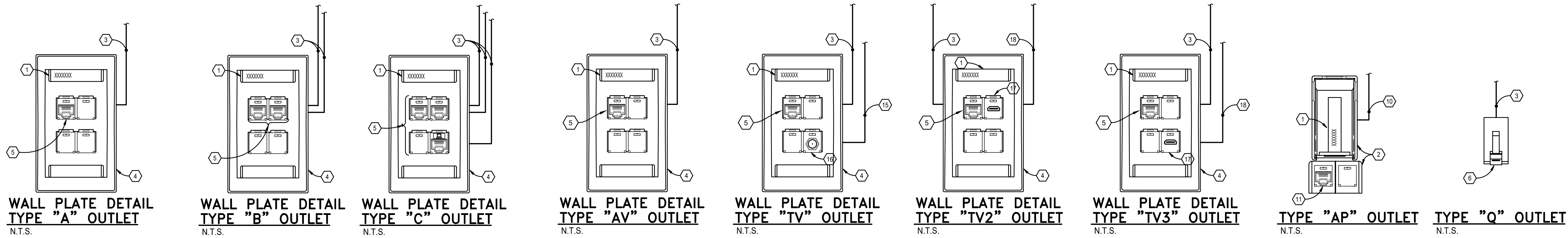
A TYPICAL DATA & AV WALL BOX ROUGH-IN DETAIL
 N.T.S.



B HORIZONTAL CABLE LABELING
 N.T.S.

CODED NOTES:

- PROVIDE SELF-ADHESIVE LABEL (TYPICAL). EVERY JACK SHALL HAVE A TYPED LABEL.
- PROVIDE LEGRAND #KSSMB2-88 SURFACE MOUNT BOX OUTLETS AS NOTED ON THE DRAWINGS. ADJUST JACK COLOR PER OUTLET ASSIGNMENT.
- PROVIDE PLENUM CAT6 CABLES MODEL SUPERIOR-ESSEX 66-246-2B WITH A BLUE FLAME ARREST OUTER JACKET. ROUTE CABLES TO THE NEAREST IDF AND TERMINATE CABLE ON A MODULAR PATCH PANEL.
- PROVIDE LEGRAND FACEPLATE MODEL KSFP4-13 FOG WHITE FOR HARD WALLS.
- PROVIDE DATA JACK MODEL KTJ6-** (** DENOTES JACK COLOR) BY LEGRAND. FILL UNUSED PORTS WITH BLANKS.
- PROVIDE A FIELD TERMINATED DATA PLUG MODEL HDPUC65E BY LEGRAND.
- PROVIDE A MODULE FRAME FOR DATA AND AV CONNECTIONS.
- PROVIDE LEGRAND WIREMOLD DEVICE PLATE MODEL 10DEC WITH A DECORA STYLE OPENING FOR DATA AND AV. PROVIDE QUANTITY SHOWN (BY ELECTRICAL CONTRACTOR)
- PROVIDE LEGRAND WIREMOLD EVOLUTION SERIES FLOOR POKE MODEL 10STCP WITH A MODEL 10CTCBS COVER PLATE. PROVIDE COVER IN A BRASS FINISH. (BY ELECTRICAL CONTRACTOR)
- PROVIDE BLUE PLENUM CAT6A CABLES BELDEN MODEL 10GX53F D151000 A FLAME ARREST OUTER JACKET OR PANDUIT MODEL PUP6A04BU-UG UTP CABLE.
- PROVIDE A MODULAR CAT6A JACK MODEL KTJ6A-88 BY LEGRAND.
- PROVIDE A HDMI JACK MODULE MODEL WP124KBK BY LEGRAND.
- PROVIDE AN FSR HDMI DIGITAL RIBBON CABLE SERIES DR-PCB-H**M. ** LENGTH AS REQUIRED TO EXTEND FROM INPUT PLATE TO BEHIND THE ASSOCIATED VIDEO DISPLAY.
- PROVIDE A WIREMOLD EVOLUTION SERIES FLOOR POKE-THRU MODEL 6AT2PAA WITH FLUSH STYLE COVER. PROVIDE COVER WITH A DURABLE BRUSHED ALUMINUM FINISH.
- PROVIDE A PLENUM RATED RG6U COAXIAL CABLE WITH A SOLID 18AWG CENTER CONDUCTOR WEST PENN MODEL 25841. ROUTE ALL COAX CABLES BACK TO THE IT ROOM AND LEAVE A 20 FT SERVICE LOOP.
- PROVIDE A 75-OHM F-TYPE COUPLER MODULE MODEL KSFCN (FOG WHITE) BY LEGRAND.
- PROVIDE A LEGRAND 4K HDMI KEYSTONE INSERT MODEL WP124KBR.
- PROVIDE A C2G PERFORMANCE SERIES HDMI ACTIVE OPTICAL CABLE (C2G103XX) BETWEEN THE DISPLAY AND THE ROOM AV OUTLET. (LENGTH AS REQUIRED)



C VOICE / DATA / AV OUTLET DETAILS
 N.T.S.

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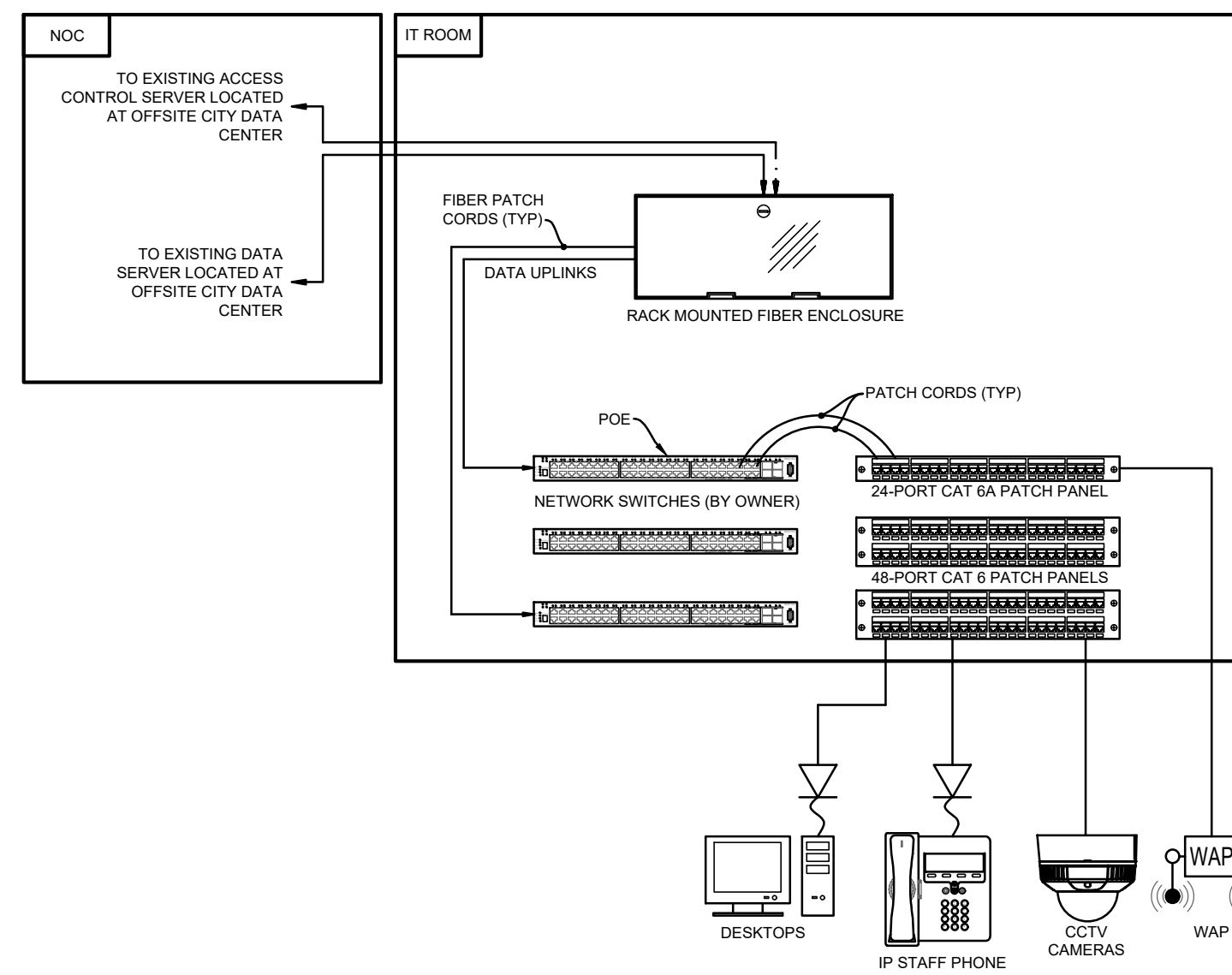
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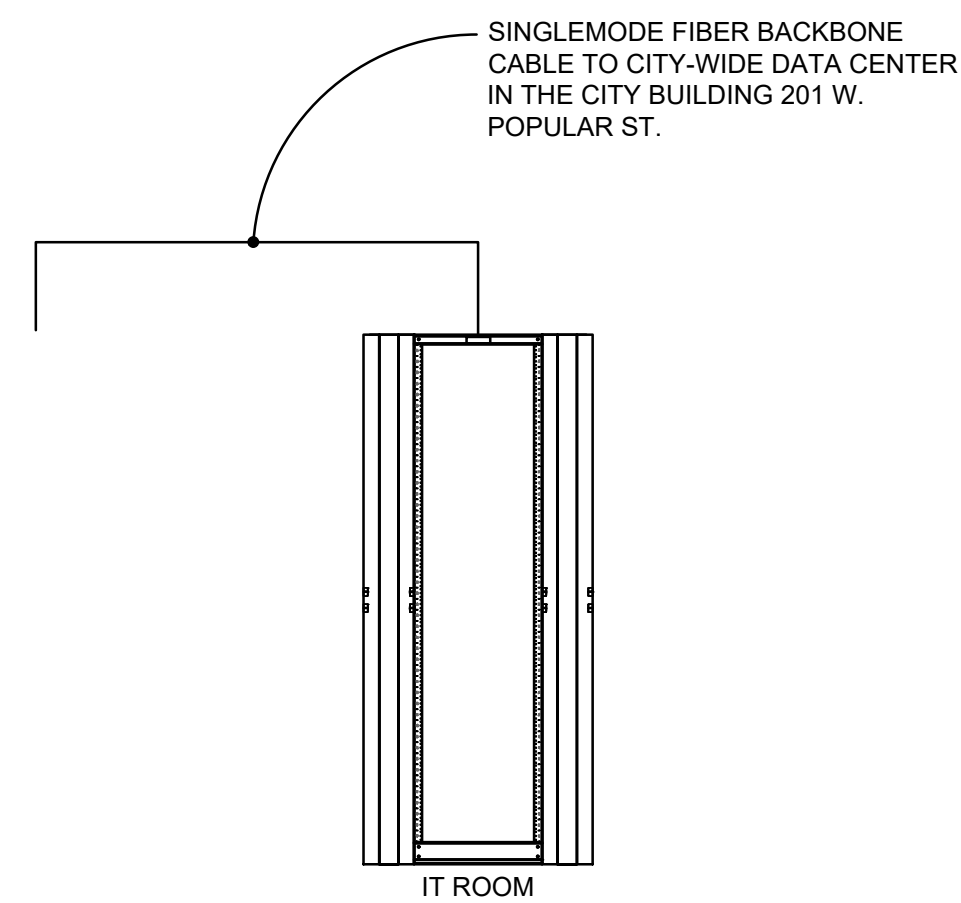
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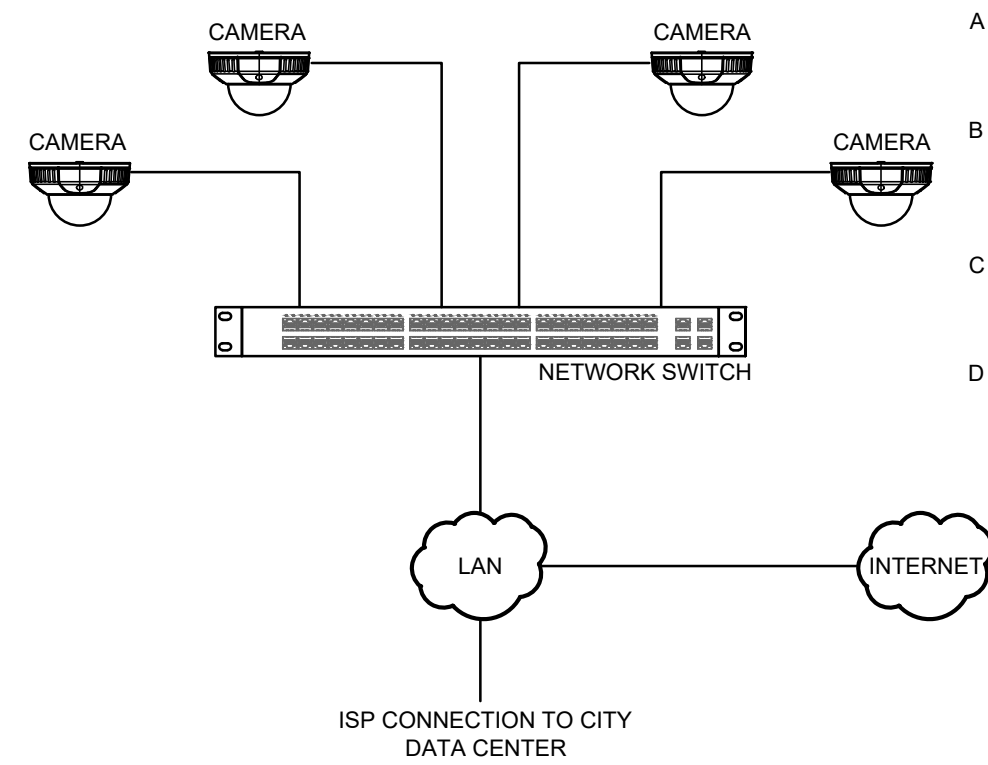
TECHNOLOGY DETAILS
T-900



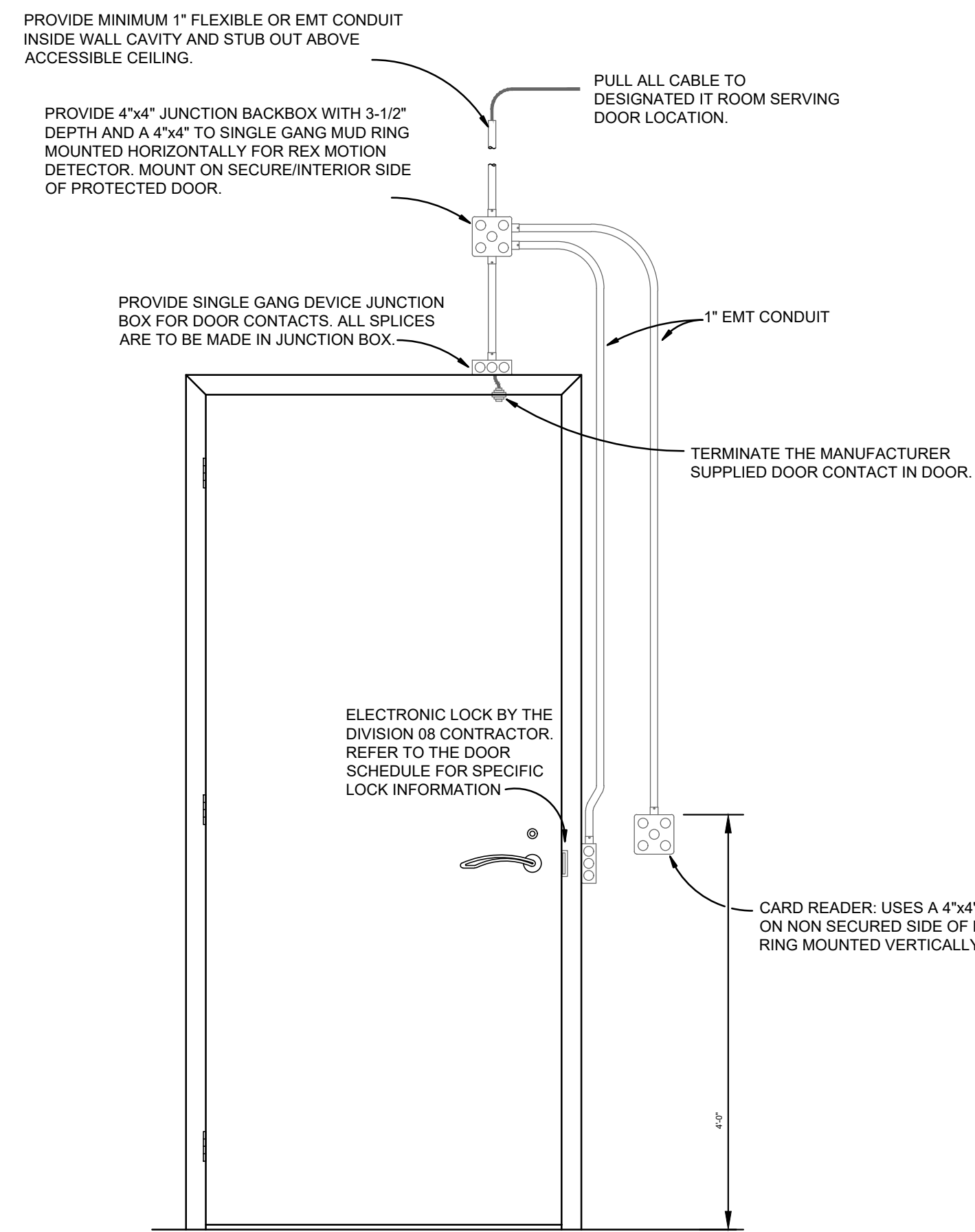
A VOICE/DATA ONE-LINE DIAGRAM
N.T.S.



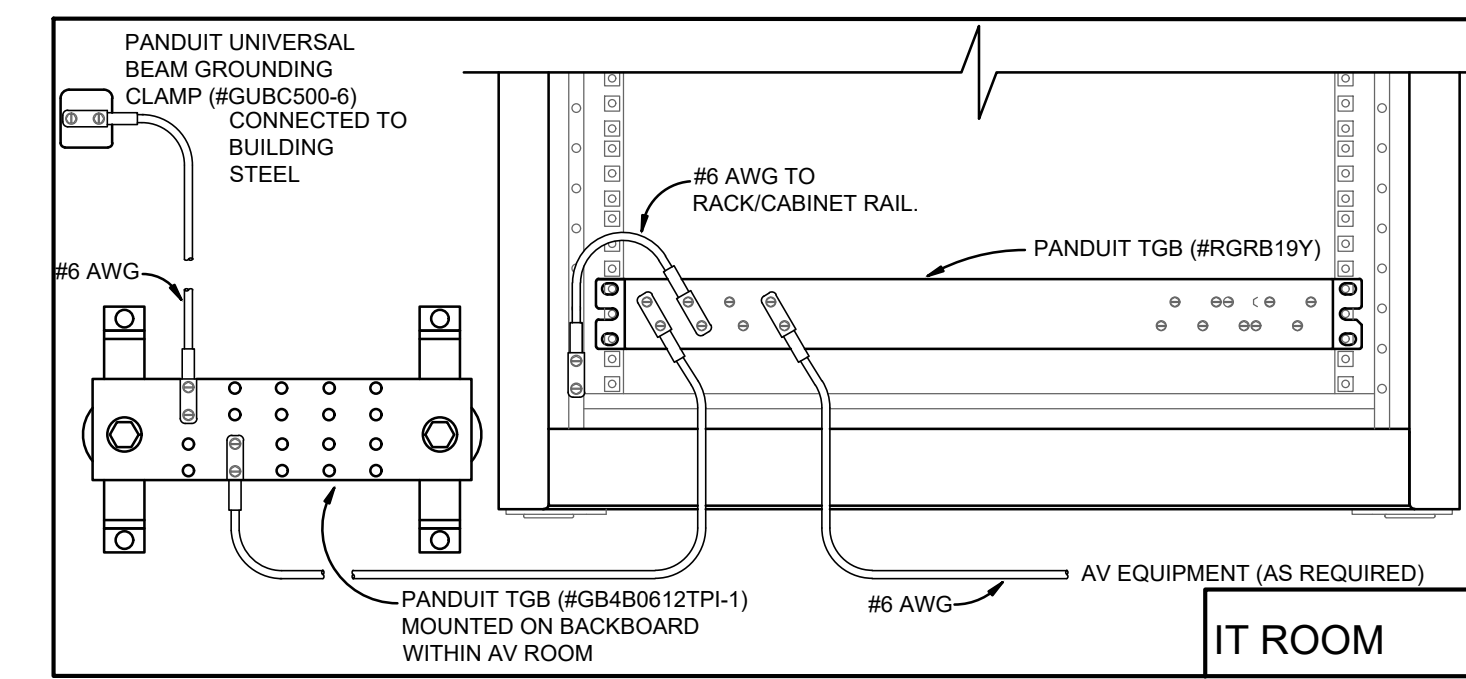
D VOICE/DATA NEW BACKBONE DIAGRAM
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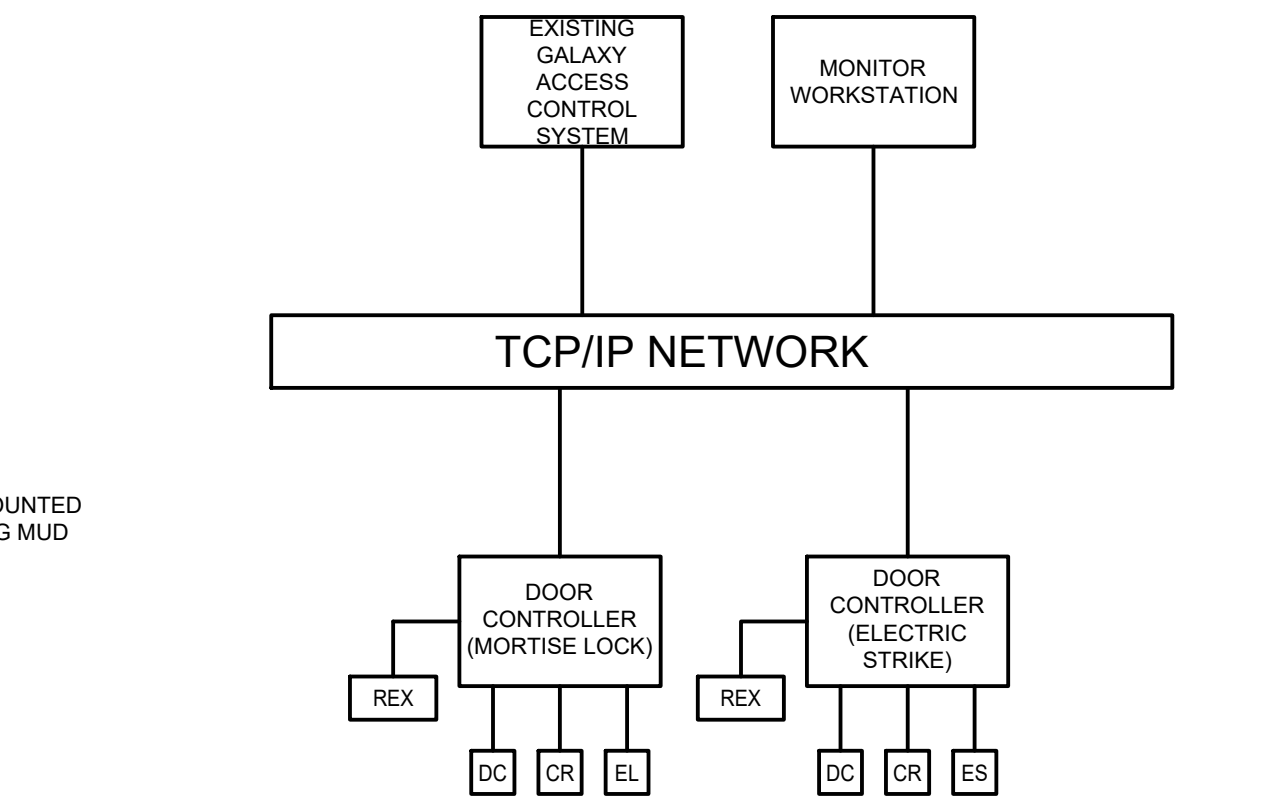
- GENERAL NOTES:**
- A THE SECURITY SURVEILLANCE SYSTEM SHALL BE ONE COMPLETE CITY-WIDE VIDEO SYSTEM.
 - B THE SYSTEM SHALL INCLUDE ONE VIDEO MANAGEMENT SYSTEM SERVER AND IT WILL BE LOCATED IN THE CITY BUILDING SERVER ROOM.
 - C ALL CAMERA ASSEMBLIES SHALL BE PROVIDED POWER VIA POE SWITCH WITHIN THE LAN.
 - D THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CABLES, CABLE PATHWAYS, DEVICE LOCATIONS, AND ALL OTHER TERMINATIONS WITH THE ELECTRICAL CONTRACTOR AND ARCHITECT AS REQUIRED PRIOR TO INSTALLATION.



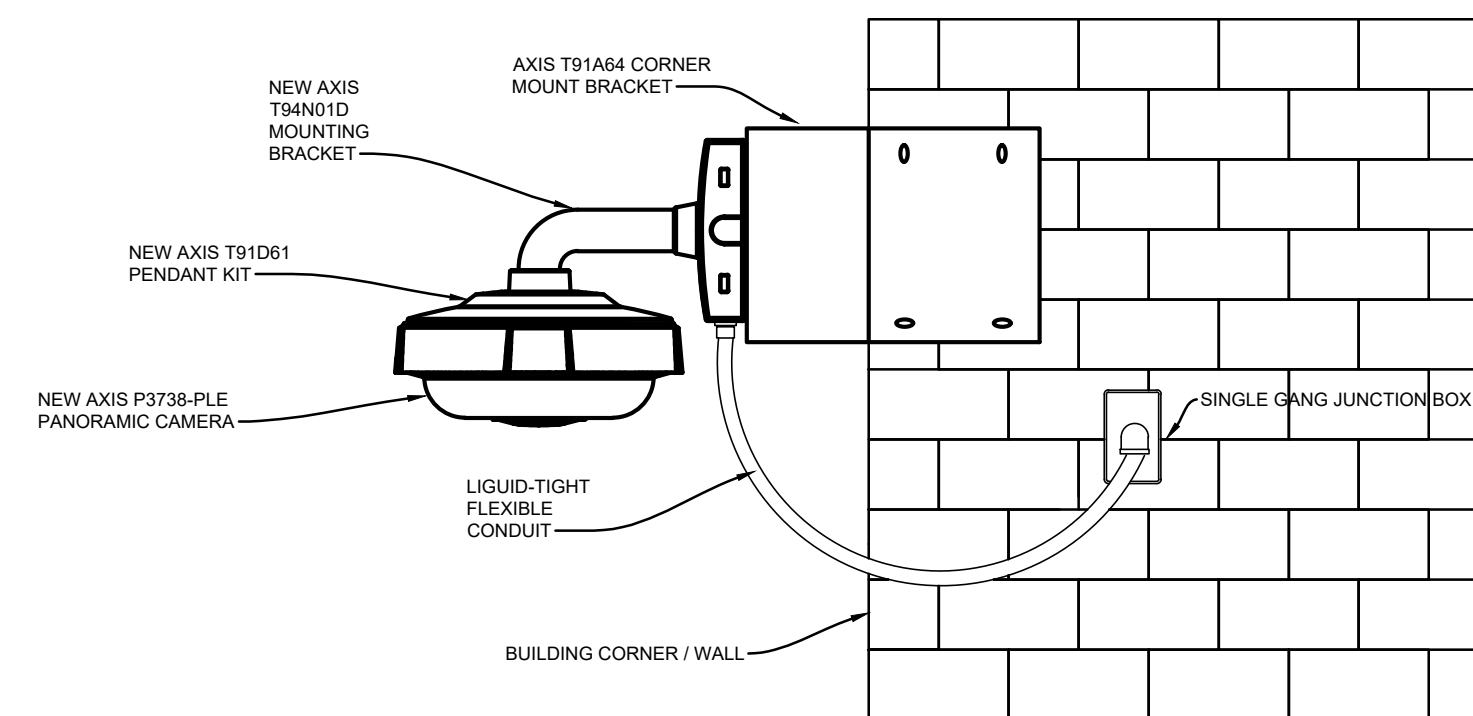
A INTERIOR DOOR SECURITY HARDWARE DETAIL
N.T.S.



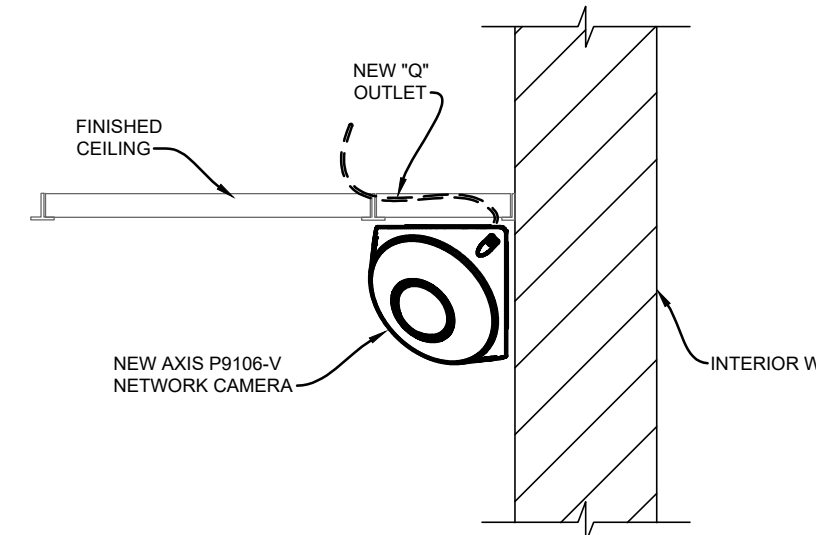
B GROUNDING/BONDING DETAIL
N.T.S.



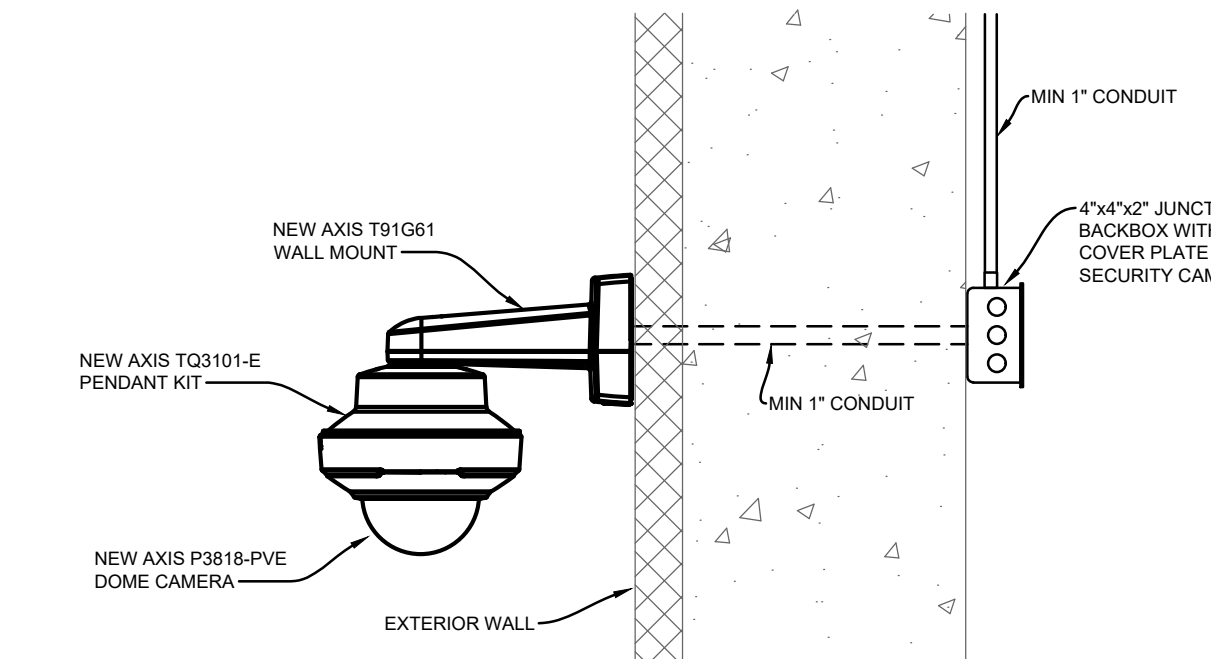
C EXISTING ACCESS CONTROL SYSTEM DIAGRAM
N.T.S.



EXTERIOR CORNER MOUNT (MULTI-SENSOR) MOUNTING STYLE "7"



INDOOR CEILING MOUNT MOUNTING STYLE "9"



WALL MOUNTED EXTERIOR MOUNTING STYLE "10"

SECURITY VIDEO CAMERA SCHEDULE																			
CAMERA NUMBER	MANUFACTURER	CAMERA MODEL	DESCRIPTION	CAMERA TYPE	LOCATION		MOUNTING INFORMATION								POWER				
					INTERIOR	EXTERIOR	HEIGHT	MOUNTING STYLE	CEILING	WALL	APPROX. MOUNTING HEIGHT	MANUFACTURER SUPPLIED BACKBOX	CONTRACTOR SUPPLIED BACKBOX	CEILING MOUNT ADAPTER	EXTERIOR WALL MOUNT	PENDANT ADAPTER	CORNER BRACKET	DRAWING SHEET	IEEE 802.3af/POE at TYPE 1 CLASS 2
01	AXIS	P9117-PV	3 MP CORNER CAM	C3	X		TBD (VERIFY IN THE FIELD)	9	X									T-100	X
02	AXIS	P9117-PV	3 MP CORNER CAM	C3	X		TBD (VERIFY IN THE FIELD)	9	X									T-100	X
03	AXIS	P3818-PVE	13 MP 180 MULTISENSOR	E2		X	TBD (VERIFY IN THE FIELD)	10		X				X				T-100	X
04	AXIS	P3818-PVE	13 MP 180 MULTISENSOR	E2		X	TBD (VERIFY IN THE FIELD)	10		X				X				T-100	X
05	AXIS	P3738-PL	4X 4K MULTIDIRECTIONAL	E3		X	TBD (VERIFY IN THE FIELD)	7		X				X				T-100	X
06	AXIS	P3738-PL	4X 4K MULTIDIRECTIONAL	E3		X	TBD (VERIFY IN THE FIELD)	7		X				X				T-100	X
07																			
08																			

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