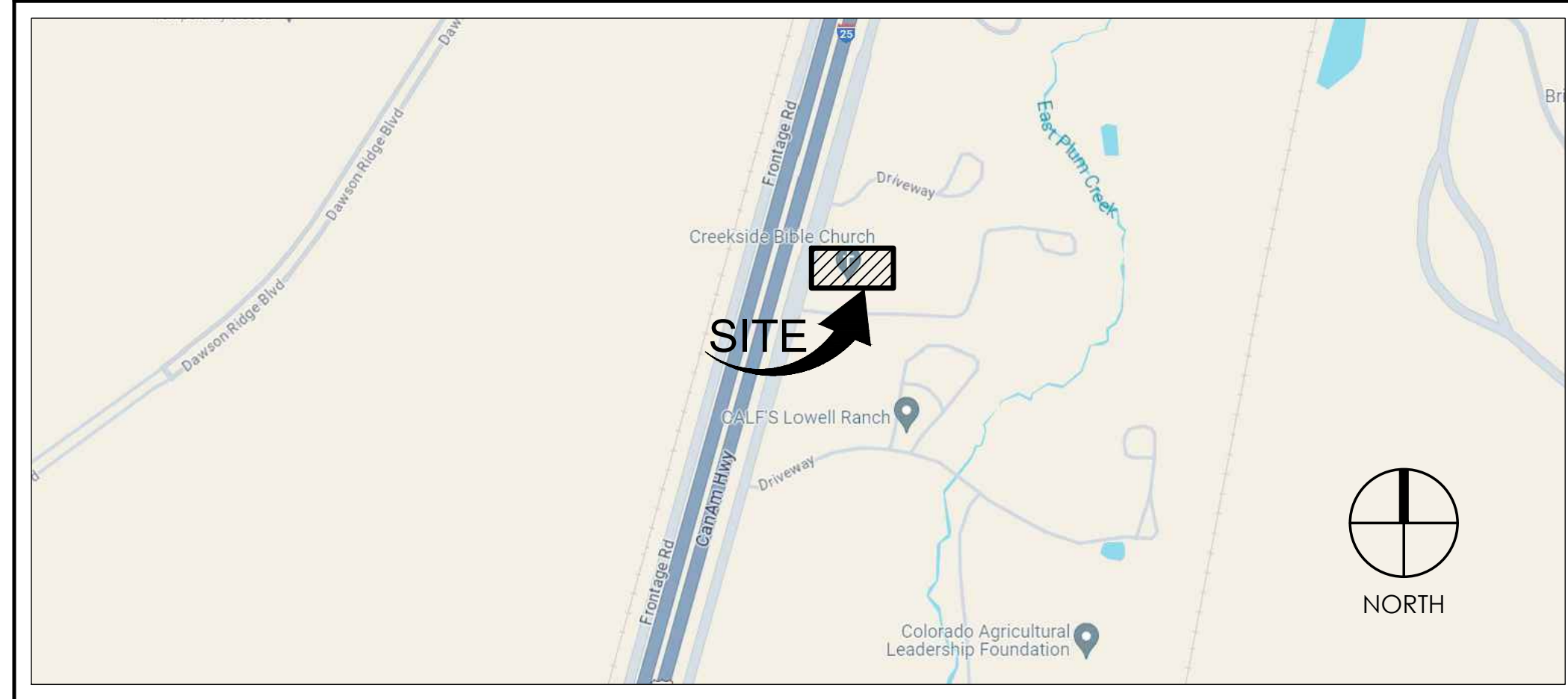


VICINITY MAP:



CREEKSIDE BIBLE CHURCH RENOVATION & ADDITION

2180 I-25
Castle Rock, CO 80104



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Creekside Bible Church

Owner

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Volume 1

Architectural, Structural, Mechanical, Plumbing, and Electrical

ABBREVIATIONS:

ACT.	ACOUSTIC TILE	FTG.	FOOTING	REL.	RELOCATED
B.S.	BOTH SIDES	FUT.	FUTURE	REV.	REVERSE
ACOUS.	ACOUSTICAL	GA.	GAUGE	RAD.	RADIUS
A.C.	AIR CONDITIONING	GALV.	GALVANIZED	R.I.	RISER
ADA	AMERICANS WITH DISABILITIES ACT	G.C.	GENERAL CONTRACTOR	RE.	REMOVE
ADJ.	ADJUSTABLE	G.S.	GALVANIZED STEEL	R.B.	RUBBER BASE
A.F.F.	ABOVE FINISHED FLOOR	GL.	GLASS	R.D.	ROOF DRAIN
AL.	ALUMINUM	GL.	GROUND	RE.	REFER
ALT.	ALTERNATE	GR.	GRADE	REQD.	REQUIRED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE ARCHITECT (TURAL)	GYP.	GYPSUM	REIN.	REINFORCING
ARCH.		H. & S.	HARDEN & SEAL	REFL.	REFLECTED
ASPH.	ASPHALT	H.B.	HOSE BIBB	REFL.	REFLECTED
BH.	BULKHEAD	H.C.	HOLLOW CORE	RTU	ROOM TOP UNIT
B.S.	BOTH SIDES	H.C.	HOLLOW CORE	R.O.	ROOM OPENING
B & B	BOARD & BATTEN	H.C.	HOLLOW CORE	R.O.W.	RIGHT-OF-WAY
BTUM.	BUTYLIUMOUS BUILDING	H.C.	HOLLOW CORE	(S)	SEALANT
BLK.	BLOCK	HDWR.	HARDWARE	S.A.T.	SUSPENDED ACOUSTICAL
BM.	BEAM	HDWR.	HARDWARE	SCHED.	SCHEDULE
BOT.	BOTTOM	H.M.	HOLLOW METAL	HT.	HEIGHT
BRG.	BEARING	HORIZ.	HORIZONTAL	HTR.	HEATER
BSMT.	BASEMENT	H.D.	HEAD	HD.	HEAD
BUILDING SECTION		I.D.	INSIDE DIAMETER	INSUL.	INSULATION
C.L.	COLUMN	INT.	INTERIOR	INT.	INTERIOR
CAB.	CABINET	J.M.	JAMB	JAN.	JANITOR
(C)	CAULK	JAN.	JANITOR	JST.	JOIST
CI	CAST IRON	JST.	JOIST	JT.	JOINT
C.I.P.	CAST IN PLACE CONCRETE	J.T.	JOINT	STD.	STANDARD
CLG.	CEILING	KIT.	KITCHEN	STOR.	STORAGE
C.M.U.	CONCRETE MASONRY UNIT	KS	KNEE SPACE	STR.	STRUCTURAL
CONC.	CONCRETE	LAB.	LABORATORY	SUSP.	SUSPENDED
CONN.	CONNECTION	LAM.	LAMINATED	SYM.	SYMMETRICAL
CONT.	CONSTRUCTION	LAV.	LAVATORY	S.T.	STAINED
CONSTR.	CONSTRUCTION	L.L.H.	LONG LEG HORIZONTAL	T. TR.	TREAD
CNTR.	COUNTER	L.L.V.	LONG LEG VERTICAL	T.B.	TOP & BOTTOM
C.T.	CERAMIC TILE	L.T.	LIGHT	T.G.	TONGUE & GROOVE
CLOS.	CLOSET	L.W.C.	LIGHT WEIGHT CONCRETE	TEL.	TELEPHONE
C.O.A.	CITY OF AURORA	LVL.	LEVEL	THK.	THICKNESS
CLSRM.	CLASSROOM	MAS.	MASONRY	T.O.J.	TOP OF JOIST
D.A.	DOUBLE ACTING	MATL.	MATERIAL	T.O.B.	TOP OF BEAM
DBL.	DOUBLE	MAX.	MAXIMUM	T.O.C.	TOP OF CONCRETE
DTL.	DETAIL	MECH.	MECHANICAL	T.O.F.	TOP OF FOOTING
D.F.	DRINKING FOUNTAIN	MFR.	MANUFACTURER	T.J.	TOOL JOINT
DIA.	DIAMETER	M.H.	MANNHOLE	T.M.	TOP OF MASONRY
DN.	DOWN	MIN.	MINIMUM	TOPO.	TOPOGRAPHY
DRWG.	DRAWING	MISC.	MISCELLANEOUS	TYP.	TYPICAL
EA.	EACH	M.O.	MASONRY OPENING	U.O.N.	UNLESS OTHERWISE NOTED
E.J.	EXPANSION JOINT	MTG.	MEETING	UTIL.	UTILITY
ELEC.	ELECTRIC	MTL.	METAL	U.B.C.	UNIFORM BUILDING CODE
ELEV.	ELEVATION	MEZZ.	MEZZANINE	VAR.	VARIES
ELEVTR.	ELEVATOR	(N)	NEW	N.I.C.	NOT IN CONTRACT
EQ.	EQUAL	N.T.S.	NOT TO SCALE	NOM.	NOMINAL
EQUIP.	EQUIPMENT	O.A.	OVER ALL	O.C.	ON CENTER
E.W.C.	ELECTRIC WATER COOLER	O.C.	ON CENTER	O.C.D.	OUTSIDE DIAMETER
E.XH.	EXHAUST	O.F.C.	OFFICE	O.H.	OVER HEAD
E.F.	EXHAUST FAN	O.P.	OPPOSITE	O.P.	OPPOSITE
EXIST.	EXISTING	OPP.	OPPOSITE	PERF.	PERFORATED
EXP.	EXPANSION	P.F.	PREFINISHED	P.C.	PRECAST CONCRETE
EXT.	EXTERIOR	P.I.P.	POURED IN PLACE	P.L.	PROPERTY LINE
E.O.S.	EDGE OF SLAB	P.L.M.G.	PLUMBING	P.M.	PAIR
F.B.O.	FURNISHED BY OWNER	P.R.	PAIR	P.S.	PRESSED STEEL
F.B.T.	FURNISHED BY TENANT	P.S.	PRESSED STEEL	PT.	PRESSURE TREATED
F.D.	FLOOR DRAIN	PT.	PRESSURE TREATED	PTN.	PARTITION
F.D.N.	FOUNDATION	PT.	PRESSURE TREATED	(P), P, PTD	PAINTED
F.E.	FINISHED END	Q.T.	QUARRY TILE		
F.E.C.	FIRE EXTINGUISHER CABINET				
F.H.C.	FIRE HOSE CABINET				
FN.	FINISHED				
F.I.O.	FURNISHED & INSTALLED BY OWNER				
F.I.T.	FURNISHED & INSTALLED BY TENANT				
FLR., FL.	FLOOR				
FT.	FOOT OR FEET				

MATERIALS:

	BACKFILL		BRICK		RIGID INSULATION		FINISHED WOOD
	COMPACTED FILL		CONCRETE MASONRY UNIT (C.M.U.)		BATT INSULATION		ACOUSTICAL PANEL
	GRAVEL / STONE		STEEL		GYPSUM BOARD		
	CONCRETE		METAL STUD		PLYWOOD OR OSB		
	GROUT / MORTAR		2X WOOD BLOCKING OR FRAMING		PARTICLE BOARD		

SYMBOLS:

	OFFICE		ROOM NAME AND NUMBER		SECTION OR DETAIL		ENLARGED PLANS
	DOOR IDENTIFIER		WINDOW IDENTIFIER		SECTION OR DETAIL		PLAN DETAIL
	PARTITION TYPE		KEYNOTE		ELEVATION		
	REVISION NUMBER		SPOT ELEVATION				

GENERAL NOTES:

- The general contractor shall be responsible for obtaining all required building permits, and owner shall pay for all applicable fees/assessments therefrom.
- All work shall be performed in strict conformity with all local laws, ordinances, rules and regulations of government authorities having jurisdiction.
- Before commencement of the work and prior to ordering any materials, the contractor and his subcontractors shall field verify all dimensions and existing conditions shown in the contract documents. Any deviations, discrepancies and/or conflicts shall be reported immediately to the architect.
- These drawings require complete and operational building systems / components. Any miscellaneous items or materials not specifically noted, but required for the proper execution of the work, shall be designed & provided by the contractor in accordance with all applicable laws and regulations. Contractor to provide owner with all required warranties for these systems at project closeout.
- Existing conditions and dimensions shown on the drawings are based on existing documents provided to the architect by the owner. It is the contractor's responsibility to field verify dimensions for both quantity take off's and construction. Should a discrepancy occur between the contract documents and existing conditions, immediately notify the architect in writing.
- Do not scale drawings! Dimensions govern. All floor plan dimensions are from face of finish, face of masonry, or face of concrete, or face of existing finishes to remain, typical U.O.N.
- Examination of the site: the contractor shall visit the job site with his subcontractors before bid is submitted to the owner. Failure to visit the site will in no way relieve the contractor from necessity of furnishing materials or performing work required to fully complete work in accordance with the drawings without additional cost to the owner.
- The contractor shall perform high quality professional work using only workmen and workwomen who are skilled and experienced in the specific tasks required. Join materials with uniform accurate fits so they meet with neat straight lines. Install exposed materials appropriately level, plumb, and at accurate right angles, or flush with adjoining materials as appropriate for the conditions.
- The contractor shall arrange to accommodate "not in contract" and "by owner" work.
 - Computer equipment
 - Telephone system and data wiring
 - AV equipment and systems
 - Furniture
 - All low-voltage systems
- Work to be coordinated with the owner during construction:
 - Computer equipment
 - Telephone system and data wiring
 - AV equipment and systems
 - Furniture
 - All low-voltage systems
- Protect all building required exits from obstruction during construction. Remove all debris from building at the end of each working day. Provide temporary fire extinguishers available to workmen as needed to minimize fire.
- Patch all finishes disturbed by general construction and/or installation of new construction, including plumbing, mechanical and electrical. Patch to match similar adjacent surfaces U.O.N. Finished patchwork shall bear a new appearance upon completion.
- General contractor is not responsible for testing or removing any hazardous materials, if any are present on the facility.
- Removal of asbestos material (if any) by owner.
- Prior to interfacing with any existing system or materials, i.e. Roof, electrical panels, paging systems, etc., the contractor shall meet with the owner's representative to document the condition and operational status of the existing systems prior to commencing any work on the system.
- Provide blocking as a required part of partition framing for attachment of, (including but not limited to), wall cabinets, mirrors, grab bars, marker & tackboards, plumbing equipment, fire extinguisher, drapery tracks, magnetic hold opens, etc..
- When information is inadequate, request further instruction before proceeding.
- All dissimilar materials, as depicted in these contract drawings require caulk and/or sealant at all adjoining joints as detailed or indicated, U.O.N.
- Provide metal corner bead at all outside corners and metal "L" shape trim comparable to USG 200B where gypsum board joints dissimilar material.
- All floor elevations indicated for existing construction depicted herein are based upon existing drawings or surveys. Discrepancies should be brought to the architects attention immediately prior to commencing with work.
- Where a conflict occurs between or within standards and drawings, the more stringent or higher quality requirements shall apply. The precedence of the construction documents is in the following sequence:
 - Addenda and modifications to the drawings take precedence over the original construction documents.
 - Should there be a conflict within the drawings, the architect shall decide which stipulation will provide the best installation and his decision shall be final.
 - In the drawings, the precedence shall be drawings of a larger scale over those of a smaller scale, figured dimensions over scaled dimensions, and noted materials over graphic indications.
- Bidders shall base their bid upon the use of any of the items specifically named in the specification or on the drawings, or as approved in an addendum issued by the architect. No changes or substitutions will be considered after the award of the contract except those which will result in a better job, a savings to the owner, or both.
- Before ordering any material or doing any work, the contractor shall verify all measurements at the project and shall be responsible for the correctness of same. No extra charge or compensation shall be allowed on account of difference between actual dimensions and the measurements indicated on the drawings.
- The Contractor shall submit all proposed substitutions to the Architect in writing with sufficient information, samples and difference in cost for an "informed evaluation." Substitutions must be approved in writing before they may be used.
- The Contractor shall immediately, when notified of a proposed change, develop cost and schedule ramifications for Owner approval/acceptance.
- SHOP DRAWINGS
 - The Contractor shall submit shop drawings, product data, and/or samples as required to explain work of all trades.
 - Architect shall review shop drawings and samples with reasonable promptness so as to cause no delay. Such review is only for conformity to the design concept for the project and with the information given in the Contract Documents. The review of a separate item shall not indicate a review of an assembly in which the item functions. Shop drawings that contain excessive errors or that are incomplete will be returned for re-submittal, and any delay thereby will be the responsibility of the Contractor.
- The Contractor shall make any revisions as noted by the Architect and if indicated on the review stamp, re-submit corrected shop drawings for review and/or record.
- The Architect's review of shop drawings or samples shall not relieve the Contractor of responsibility of any deviation from the Contract Documents unless the Contractor has informed the Architect in writing of such deviation at the time of submission, nor shall the Architect's review relieve the Contractor of responsibility for errors and omissions in the shop drawings or samples.
- No portion of the work requiring shop drawings or sample submissions shall be commenced until the submission has been reviewed by the Architect.
- Submit shop drawings and product data in accordance with project specifications' submittal requirements.
 - Shop Drawings required for work under this project:
 - Finish Carpentry and Millwork
 - New Doors, Frames and Hardware
 - Electrical (see Electrical Drawings)
 - Mechanical (see Mechanical Drawings)
 - Carpet and other floor finishes
 - Paint
 - Plumbing Accessories
 - Windows and glazing
 - Steel Frame and Anchor Bolts
 - Miscellaneous Metals
 - Site Screen walls
 - Product Data required for work under this project:
 - Painting Materials List
 - Electrical (see Electrical Drawings)
 - Plumbing
 - Plumbing Accessories
 - Stucco
 - Hardware
 - Finish materials
 - Steel Framing
 - Appliances
 - Elevator Components and System
 - Site Screen walls
- Samples required for work under this project:
 - Paint Finishes (12" x 12")
 - Wood and Plastic Laminate Finishes
 - VCT flooring / Tile Flooring / Carpet / Rubber Base
 - Solid Surface Counter Tops and Faces (Granite)
 - Stucco
 - CMU
 - Glass and Frames
 - Sheet Metal Colors
 - Sealant and Grout Colors
 - Site Screen walls
- Separate submittals:
 - Fire Alarm and Detection shop drawings shall be submitted for review and approval prior to installation of devices.
 - Fire Protection shop drawings shall be submitted for review and approval prior to installation of devices.
- All Contractor requests for substitution of specified items shall be made in accordance with the following:
 - Submit two (2) copies of each request. Submit separate request for each substitution. Document each request with complete data substantiating compliance of proposed substitution with requirements of the Contract Documents. Submit substantiating data with drawings and samples as appropriate, including:
 - Reason for substitution request.
 - Catalogs and/or drawings showing capacities, functions, dimensions, construction details, methods of assembly, connections and installation of the work.
 - Laboratory test data.
 - Comparison of the qualities of the proposed substitutions with that specified.
 - Changes required in other elements of the work because of substitution.
 - Effect on the construction schedule.
 - Detailed cost data acceptable to the Architect comparing the proposed substitution with the product specified.
 - Any required licensing fee or royalties.
 - Availability of maintenance service and source of replacement materials.
- The Contractor shall upon completion remove all paint from where it has spilled, splashed, or splattered on surfaces, including light fixtures, diffusers, registers, fittings, etc. The Contractor shall remove all electrical switch and outlet plates, surface hardware, etc., before painting, protecting and replacing same when painting is complete.
- Application for all painted surfaces shall be not less than a two-coat system, unless otherwise noted, using the complete paint system (sealer, primer, finish coat, etc.) as recommended by the paint manufacturer and "The Modern Guide to Painting Specifications," latest edition, as a minimum standard.
- Contractor shall be responsible for field inspection of the surfaces to receive paint and assuring that such surfaces are acceptable for application prior to initiating actual finish work. No paint or finish shall be applied on any surface which is unfinished, not properly prepared or otherwise not fully acceptable for the finish application. All roughness or other irregularities that may appear after priming shall be thoroughly sanded out or otherwise corrected to provide a smooth, even surface for painting and finishing. Finished application and wall appearance shall be free of surface and color irregularities. By finishing these surfaces, the finish contractor accepts the responsibility of the final product.
- Contractor shall take care to protect existing finished surfaces, millwork, hardware, equipment and fixtures which are to remain.
- Contractor shall take care to protect newly installed materials, millwork, built-ins and finishes.
- The Contractor shall refer to the Contract Documents in their entirety when determining the specific locations of fixtures, receptacles and equipment. Should any discrepancies or ambiguities appear among the Contract Documents, the Contractor shall notify the Architect immediately for clarification.
- FINAL CLEAN UP. The contractor and his subcontractors shall perform final cleanup and turn over the project to the Owner:
 - Free from all construction debris, scraps, materials and equipment.
 - Glass: Both sides of glass shall be carefully and thoroughly cleaned by professional window cleaners and left absolutely clean and free from paint, labels, grease, dirt, etc.
 - Millwork: All cabinets, doors, countertops and built-ins wiped down and free of dirt, grease and other foreign material.
 - Hardware: Clean and polish hardware and leave clean and free from paint, grease, dirt, etc.
 - Floors: Thoroughly clean floors. Mop resilient floor coverings with warm water and mild detergent as recommended by manufacturer of the tile, then thoroughly machine buff. Damp mop or scrub concrete floors as required to leave them thoroughly clean when building is turned over to the Owner.
 - Equipment: Carefully and thoroughly clean items of equipment, mechanical, electrical, cabinets, ductwork, etc.
 - Plumbing: Clean and polish plumbing fixtures, fittings and exposed plated piping. Wipe clean and free from paint, grease, dirt, etc.

DRAWING INDEX:

PERMIT ISSUE SET 11/18/2024	PROJECT MANUAL Refer to the separate 8 1/2" x 11" PROJECT MANUAL booklet. Said PROJECT MANUAL is an integral and corporate part of the Construction Documents.
	GENERAL
	<ul style="list-style-type: none"> G000 COVER SHEET G001 PROJECT DATA LEGENDS & SYMBOLS G002 CODE ANALYSIS AND DATA G003 OCCUPANCY AND EXITING PLAN G004 FIRE EVACUATION AND SAFETY PLAN G005 ENERGY COMPLIANCE
	DEMOLITION
	<ul style="list-style-type: none"> D100 DEMOLITION FLOOR PLAN
	ARCHITECTURAL
	<ul style="list-style-type: none"> A000 ARCHITECTURAL SITE PLAN A010 PARTITION TYPES A011 DOOR, WINDOW & FRAME SCHEDULE A012 HARDWARE SPECS & SETS A100 FLOOR PLAN A110 ROOF PLAN A200 REFLECTED CEILING PLAN A300 EXTERIOR ELEVATIONS A310 BUILDING SECTIONS A400 ENLARGED PLANS & INTERIOR ELEVATIONS A500 WALL SECTIONS A501 WALL SECTIONS A800 DETAILS A810 DETAILS A900 FINISH PLAN & SPECIFICATIONS
	STRUCTURAL
	<ul style="list-style-type: none"> S001 GENERAL NOTES S002 SCHEDULES S003 INSPECTION SCHEDULES 2021 IBC S004 INSPECTION SCHEDULES 2021 IBC S005 LOADING PLAN S100 FOUNDATION PLAN S101 ROOF FRAMING PLAN S500 SLAB-ON-GRADE & TYP. CONCRETE DETAILS S501 GENERAL CONCRETE SCHEDULES S502 TYPICAL STEEL SCHEDULES & DETAILS S503 CFS WALL SCHEDULES & DETAILS S504 CFS SHEAR WALL SCHEDULES & DETAILS S505 FOUNDATION DETAILS S506 2021 IBC NAILING SCHEDULES S507 ROOF DETAILS
	MECHANICAL
	<ul style="list-style-type: none"> M0.01 SHEET SPECIFICATIONS M0.02 MECHANICAL SCHEDULES & LEGENDS M1.01 FLOOR PLAN - MECHANICAL DEMO M2.01 FLOOR PLAN - MECHANICAL M2.02 ROOF PLAN - MECHANICAL M5.01 MECHANICAL DIAGRAMS M5.02 MECHANICAL DIAGRAMS M6.01 MECHANICAL ENERGY CALCULATIONS
	PLUMBING
	<ul style="list-style-type: none"> P0.01 PLUMBING SPECS & LEGENDS P0.02 PLUMBING SCHEDULES P1.01 FLOOR PLAN - PLUMBING DEMO P2.00 UNDERGROUND PLAN - PLUMBING P2.01 FLOOR PLAN - PLUMBING P2.02 ROOF PLAN - PLUMBING P5.01 WASTE & VENT ISOMETRIC P5.05 PLUMBING DIAGRAMS
	ELECTRICAL
	<ul style="list-style-type: none"> E0.01 ELECTRICAL SPECS & LEGENDS E0.02 ELECTRICAL ONE-LINE DIAGRAM E1.01 FLOOR PLAN - POWER DEMO E1.02 FLOOR PLAN - LIGHTING DEMO E2.01 FLOOR PLAN - POWER E2.02 ROOF PLAN - POWER E3.01 FLOOR PLAN - LIGHTING E6.01 ELECTRICAL ENERGY CALCULATIONS



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Job No: **24010**

Revisions / Submittals:
No. Date Description
1 11/18/2024 Permit Issue Set

Date: 11/18/2024

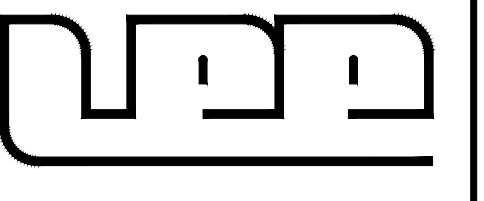
Drawn by: KC Checked by: KC

Title: **PROJECT DATA, LEGENDS & SYMBOLS**

G001



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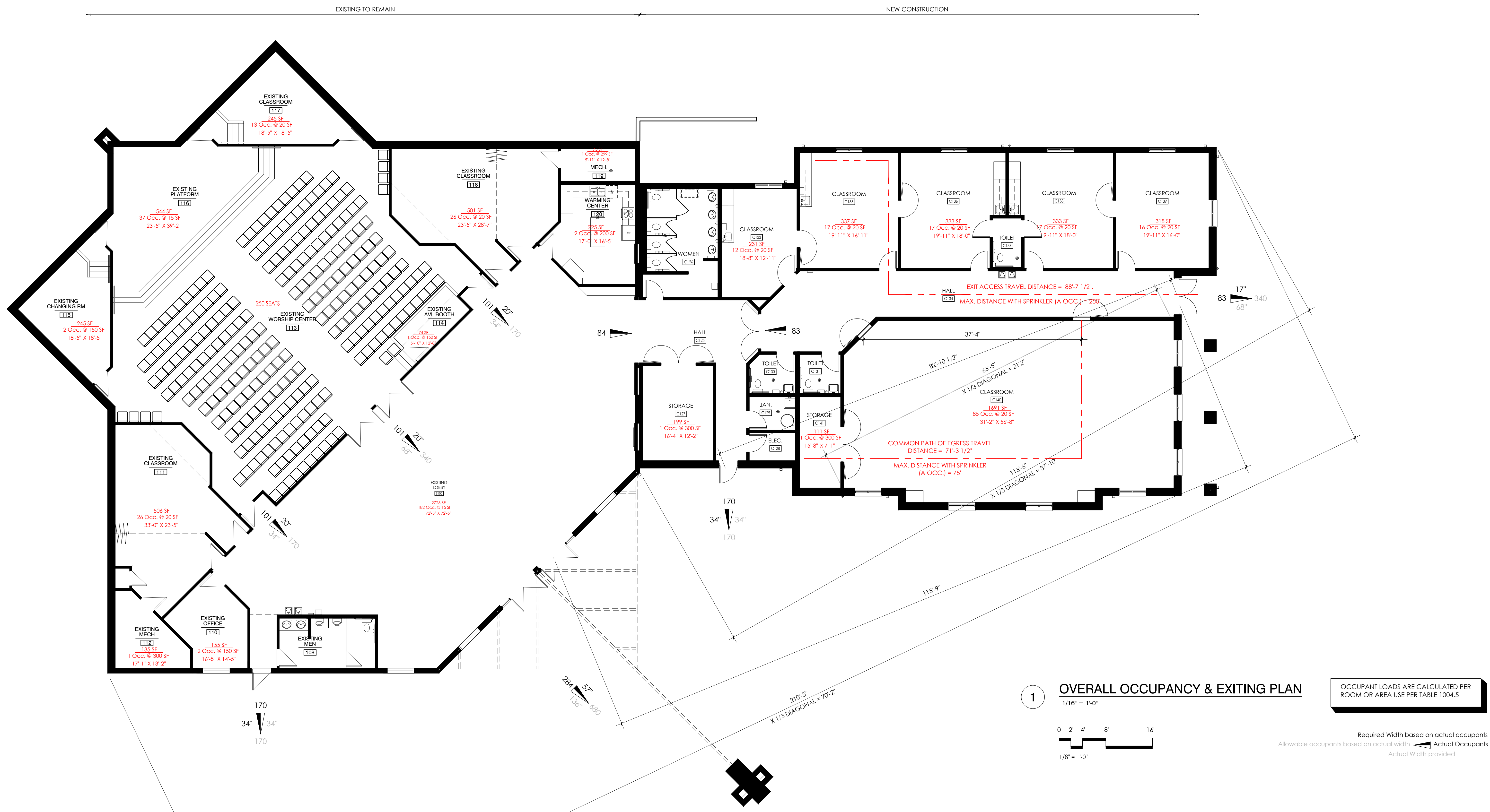
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Title

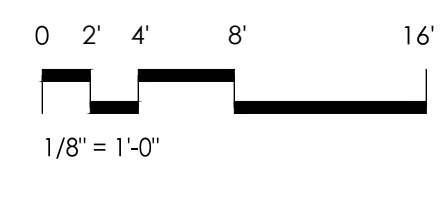
OCCUPANCY & EXITING PLAN

G003



1 OVERALL OCCUPANCY & EXITING PLAN
 1/16" = 1'-0"

OCCUPANT LOADS ARE CALCULATED PER ROOM OR AREA USE PER TABLE 1004.5



Required Width based on actual occupants
 Allowable occupants based on actual width: Actual Occupants
 Actual Width provided

Occupancy Count TOTAL			
NUMBER	ROOM	OCCUPANTS	USE
C127	STORAGE	1 Occ.	Storage
C128	ELEC.	1 Occ.	Mechanical
C129	JAN.	1 Occ.	Mechanical
C133	CLASSROOM	12 Occ.	Classrooms
C135	CLASSROOM	17 Occ.	Classrooms
C136	CLASSROOM	17 Occ.	Classrooms
C138	CLASSROOM	17 Occ.	Classrooms
C139	CLASSROOM	16 Occ.	Classrooms
C140	CLASSROOM	85 Occ.	Classrooms
C141	STORAGE	1 Occ.	Storage
E102	EXISTING LOBBY	182 Occ.	Assembly Unconcentrated Tables and non Fixed Seats
E110	EXISTING OFFICE 110	2 Occ.	Offices (business areas)
E111	EXISTING CLASSROOM	26 Occ.	Classrooms
E112	EXISTING MECH.	1 Occ.	Mechanical
E113	EXISTING WORSHIP CENTER	250 Occ.	Sanctuary Seating
E114	EXISTING AVL BOOTH	1 Occ.	Offices (business areas)
E115	EXISTING CHANGING RM	2 Occ.	Offices (business areas)
E116	EXISTING PLATFORM	37 Occ.	Stages and Platforms
E117	EXISTING CLASSROOM	13 Occ.	Classrooms
E118	EXISTING CLASSROOM	26 Occ.	Classrooms
E119	EXISTING MECH.	1 Occ.	Mechanical
E120	EXISTING WARMING CTR.	2 Occ.	Kitchens (commercial)
		699 Occ.	

2 OCCUPANT LOAD CALCULATION
 FOR EXITING

EXIT WIDTH CALCULATION:
 OCCUPANT LOAD X EGRESS CAPACITY FACTOR = CAPACITY IN INCHES
 699 X 0.2 = 140'
 TOTAL OCCUPANTS = 699
 REQUIRED EGRESS WIDTH = 140'
 PROVIDED EGRESS WIDTH = 272'

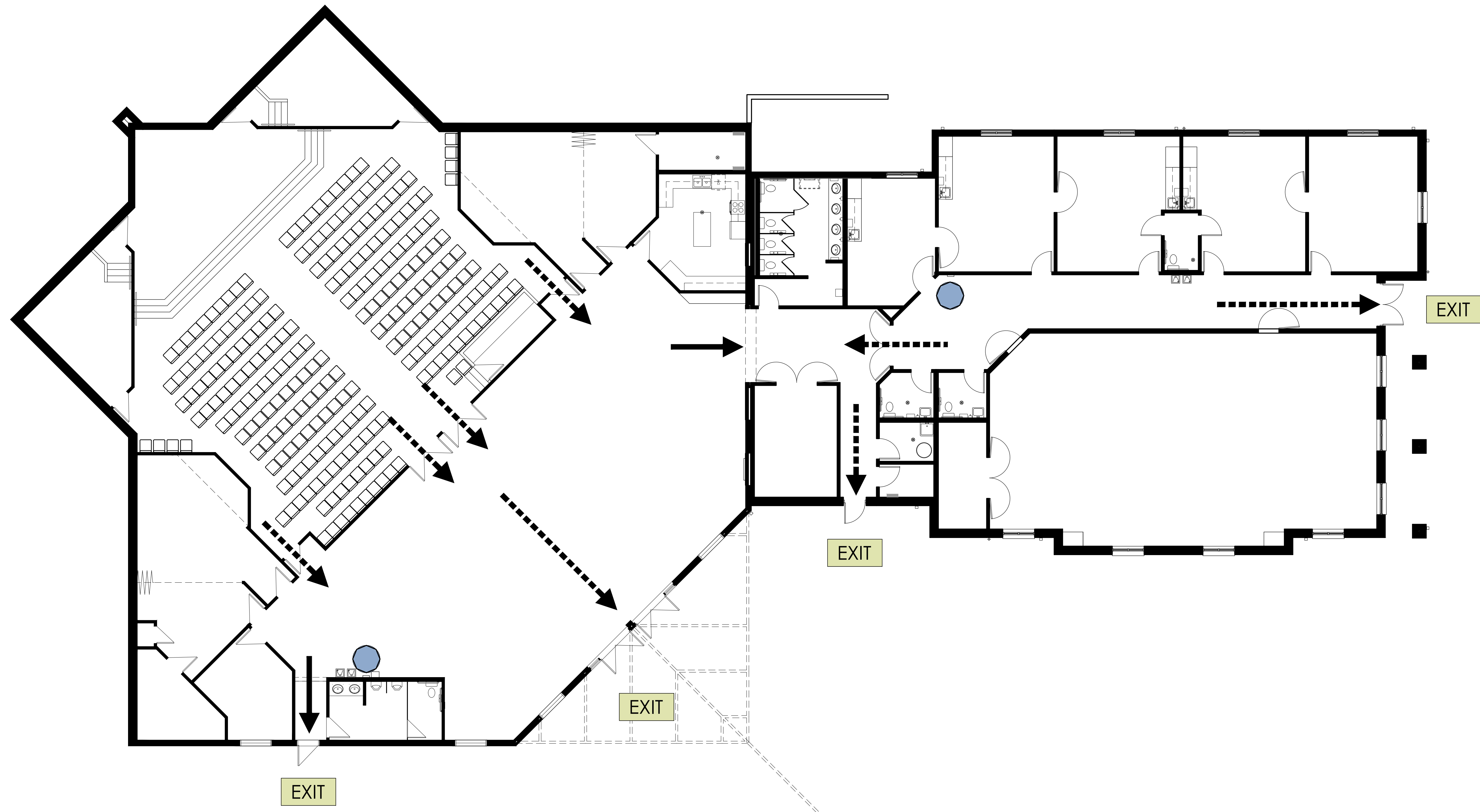
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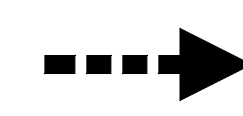

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FIRE EVACUATION / SAFETY PLAN 

	ACCESSIBLE/ EMERGENCY EGRESS
	PORTABLE FIRE EXTINGUISHER
	PRIMARY EVACUATION ROUTE
	SECONDARY EVACUATION ROUTE

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No.	Date	Description
1	11/18/2024	Permit Issue Set

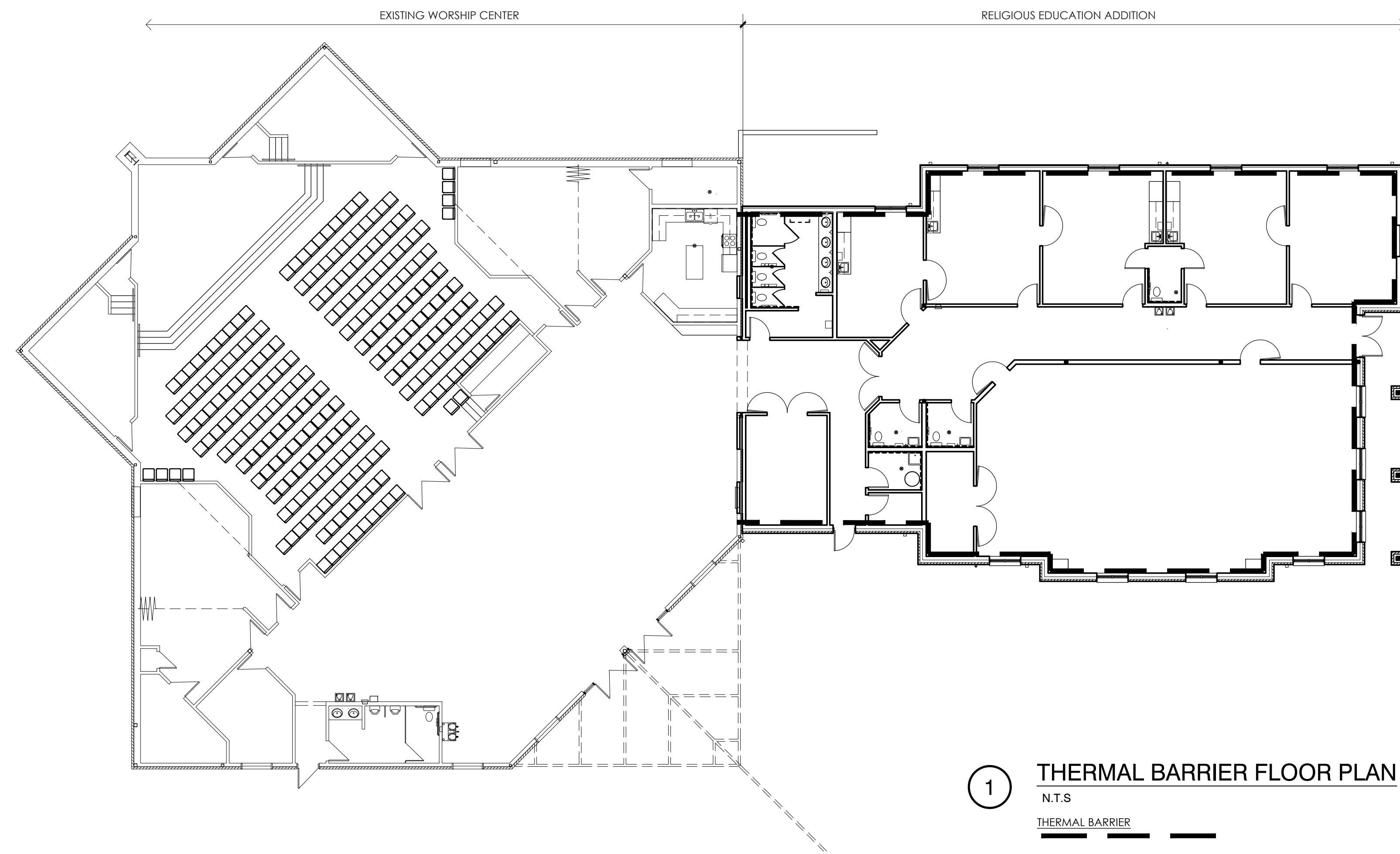
Date: 11/18/2024

Drawn by: KC Checked by: KC

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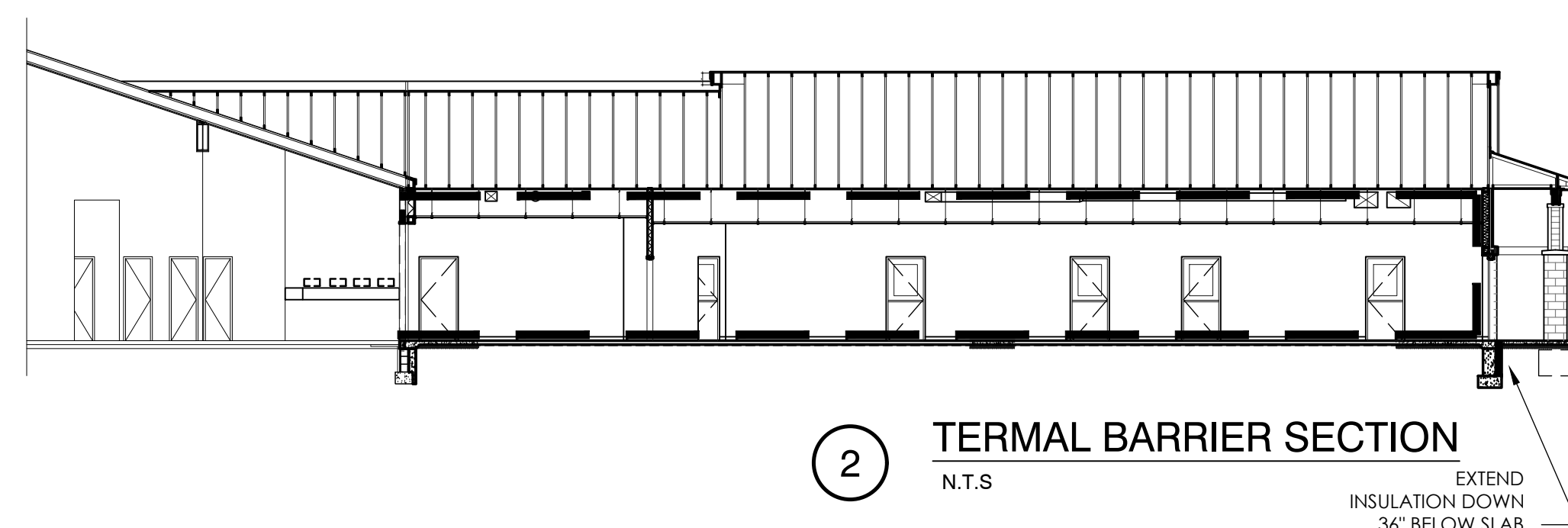
FIRE EVAC. SAFETY PLAN

G004



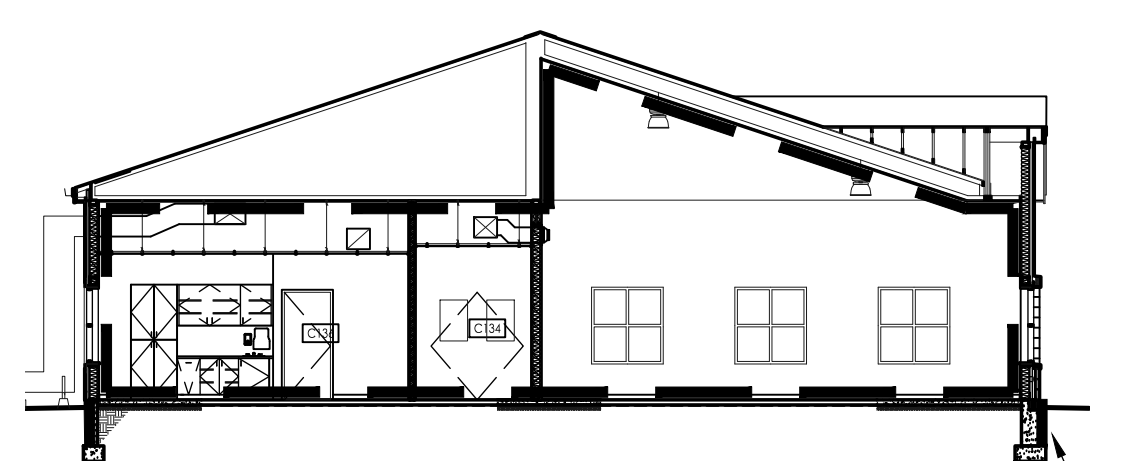
1 THERMAL BARRIER FLOOR PLAN

N.T.S.
THERMAL BARRIER



2 THERMAL BARRIER SECTION

N.T.S.
EXTEND INSULATION DOWN 36" BELOW SLAB



3 THERMAL BARRIER SECTION

N.T.S.
EXTEND INSULATION DOWN 36" BELOW SLAB

TYPICAL INSULATION VALUES:

DESCRIPTION:	R-VALUE / U-FACTOR:	TEST PROCEDURE:
Roofs	R-38 (Batt)	0.027 U-Factor
Attic and other	R-38 (Batt)	0.027 U-Factor
Walls, above grade	R-19 (Batt) + R12 cl	0.033 U-Factor
Metal framed	R-19 (Batt) + R12 cl	0.033 U-Factor
Slab-on-grade floors	R-8 (2" Polysty)	0.125 U-Factor
Unheated slabs	R-8 (2" Polysty)	0.125 U-Factor
DESCRIPTION:	U-FACTOR / SHGC:	
Alum. Storefront Windows	0.28 U-Factor	0.38
Insulated Metal Doors	0.60 U-Factor	

TABLE C402.5.2 MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIES

FENESTRATION ASSEMBLY	MAXIMUM RATE (CFM/FT²)	TEST PROCEDURE
Windows	0.20*	
Sliding doors	0.20*	
Swinging doors	0.20*	AAMA/WDMA/CSA101/1.5.2/A440 or NFRC 400
Skylights - with condensation weepage openings	0.30	
Skylights - all other	0.20*	
Curtain walls	0.06	
Storefront glazing	0.06	
Commercial glazed swinging entrance doors	1.00	NFRC 400
Power-operated sliding doors and power-operated folding doors	1.00	ASTM E283 at 1.57 psf (75 Pa)
Revolving doors	1.00	
Garage doors	0.40	ANSI/DASMA 105, NFRC 400, or ASTM E283 at 1.57 psf (75 Pa)
Rolling doors	1.00	
High-speed doors	1.30	

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

CLIMATE ZONE	BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS								
	1	2	3	4 EXCEPT MARINE	5 AND MARINE 4	6	7	8	
U-factor	Vertical fenestration								
	Fixed fenestration	0.50	0.50	0.46	0.38	0.38	0.36	0.29	0.29
	Operable fenestration	0.65	0.65	0.60	0.45	0.45	0.43	0.37	0.37
SHGC	Vertical fenestration								
	Orientation*	SEW	N	SEW	N	SEW	N	SEW	N
	PE < 0.2	0.25	0.33	0.25	0.33	0.25	0.33	0.25	0.33
U-factor	Skylights								
	0.2 ≤ PE < 0.5	0.30	0.37	0.30	0.37	0.30	0.37	0.30	0.37
	PE ≥ 0.5	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SHGC	Skylights								
	U-factor	0.75	0.65	0.55	0.50	0.50	0.50	0.50	0.50
SHGC	Skylights								
	SHGC	0.35	0.35	0.35	0.40	0.40	0.40	NR	NR

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD¹

CLIMATE ZONE	OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD ¹							
	1	2	3	4 EXCEPT MARINE	5 AND MARINE 4	6	7	8
Roofs	All other	Group R	All other	Group R	All other	Group R	All other	Group R
	R-20ci	R-25ci	R-25ci	R-25ci	R-25ci	R-30ci	R-30ci	R-30ci
Metal buildings ²	R-19 + R-11 LS	R-15 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS
	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38
Attic and other	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38
	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38
Mass ³	R-5.7ci	R-5.7ci	R-5.7ci	R-7.6ci	R-7.6ci	R-9.5ci	R-11.4ci	R-11.4ci
	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci
Metal building	R-6.5ci	R-6.5ci	R-6.5ci	R-6.5ci	R-6.5ci	R-6.5ci	R-6.5ci	R-6.5ci
	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci
Metal framed	R-5ci	R-5ci	R-5ci	R-7.5ci	R-7.5ci	R-7.5ci	R-7.5ci	R-7.5ci
	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci	R-13ci
Wood framed and other ⁴	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20
	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20
Below-grade wall ⁵	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR
Mass ³	NR	NR	R-6.3ci	R-8.3ci	R-10ci	R-10ci	R-10ci	R-10ci
	NR	NR	R-30	R-30	R-30	R-30	R-30	R-30
Joist framing	NR	NR	R-30	R-30	R-30	R-30	R-30	R-30
	NR	NR	R-30	R-30	R-30	R-30	R-30	R-30
Unheated slabs	NR	NR	NR	NR	NR	NR	NR	NR
	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab	R-7.5 for 12" below full slab
Heated slabs	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab
	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab	R-5 + R-5 full slab
Nonswinging	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75
	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75	R-4.75

IECC COMPLIANCE NOTES: Unless otherwise noted, meeting the following minimum requirements:

C103.6 Building documentation and closeout submittal requirements. The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent within 90 days of the date of receipt of the certificate of occupancy.

C103.6.1 Record documents. Construction documents shall be updated to convey a record of the completed work. Such updates shall include mechanical, electrical and control drawings that indicate all changes to size, type and location of components, equipment and assemblies.

C103.6.2 Compliance documentation. Energy code compliance documentation and supporting calculations shall be delivered in one of the following ways: as part of the project's construction documents, or as a standalone document. This document shall include the specific energy code edition utilized for compliance determination for each system, documentation demonstrating compliance with Section C303.1.3 for each fenestration product installed, and the interior lighting power compliance path, building area or space-by-space, used to calculate the lighting power allowance. For projects complying with Item 2 of Section C401.2, the documentation shall include: 1. The envelope insulation compliance path. 2. All compliance calculations including those required by Sections C402.1.5, C403.8.1, C405.3 and C405.4. For projects complying with Section C47, the documentation shall include that required by Sections C407.4.1 and C407.4.2.

C103.6.3 Systems operation control. Training shall be provided to those responsible for maintaining and operating equipment included in the manuals required by Section C103.6.2. The training shall include: 1. review of manuals and permanent certificate. 2. Hands-on demonstration of all normal maintenance procedures, normal operation modes, and all emergency shutdown and startup procedures. 3. Training completion report.

C402.5 Air leakage - thermal envelope (Mandatory). The thermal envelope of buildings shall comply with Sections C402.5.1 through C402.5.8, or the building thermal envelope shall be tested in accordance with ASTM E 779 at a pressure differential of 0.3 inch water gauge (75 Pa) or an equivalent method approved by the code official and deemed to comply with the provisions of this section when the tested air leakage rate of the building thermal envelope is not greater than 0.40 cfm/sq. ft. (0.20 L/s * m sq.). Where compliance is based on such testing, the building shall also comply with Sections C402.5.5, C402.5.6 and C402.5.7.

C402.5.1 Air barriers. A continuous air barrier shall be provided throughout the building thermal envelope, the air barriers shall be permitted to be located on the inside or outside of the building envelope, located within the assemblies composing the envelope, or any combination thereof. The air barrier shall comply with Sections C402.5.1.1 and C402.5.1.2.

- Exception:** Air barriers are not required in buildings located in Climate Zone 2B.
- C402.5.1.1 Air barrier construction.** The continuous air barrier shall be constructed to comply with the following:
- The air barrier shall be continuous for all assemblies that are the thermal envelope of the building and across the joints and assemblies.
 - Air barrier joints and seams shall be sealed, including sealing transitions in places and changes in materials. The joints and seals shall be securely installed in or on the joint for its entire length so as not to dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind, stack effect and mechanical ventilation.
 - Penetrations of the air barrier shall be caulked, gasketed or otherwise sealed in a manner compatible with the construction materials and location. Sealing shall allow for expansion, contraction and mechanical vibration. Joints and seams associated with penetrations shall be sealed in the same manner or taped. Sealing materials shall be securely installed around the penetration so as not to dislodge, loosen or otherwise impair the penetrations' ability to resist positive and negative pressure from wind, stack effect and mechanical ventilation. Sealing of concealed fire sprinklers, where required, shall be in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.
 - Recessed lighting fixtures shall comply with Section C402.5.8. Where similar objects are installed that penetrate the air barrier, provisions shall be made to maintain the integrity of the air barrier.

C402.5.1.2 Air barrier compliance options. A continuous air barrier for the opaque building envelope shall comply with Section C402.5.1.2.1 or C402.5.1.2.2.

- C402.5.1.2.1 Materials.** Materials with an air permeability not greater than 0.004 cfm/sq. ft. (0.02 L/s * m sq.) under a pressure differential of 0.3 inch water gauge (75 Pa) when tested in accordance with ASTM E2178 shall comply with this section. Materials in Items 1 through 16 shall be deemed to comply with this section, provided that joints are sealed and materials are installed as air barriers in accordance with the manufacturer's instructions.
- Plywood with a thickness of not less than 3/8 inch (10 mm).
 - Oriented strand board having a thickness of not less than 3/8 inch (10 mm).
 - Extruded polystyrene insulation board having a thickness of not less than 1/2 inch (12.7 mm).
 - Foil-back polyisocyanurate insulation board having a thickness of not less than 1/2 inch (12.7 mm).
 - Closed-cell spray foam having a minimum density of 1.5 pcf (2.4 kg/m³) and having a thickness of not less than 4.5 inches (113 mm).
 - Open-cell spray foam with a density between 0.4 and 1.5 pcf (0.6 and 2.4 kg/m³) and having a thickness of not less than 4.5 inches (113 mm).
 - Exterior or interior gypsum board having a thickness of not less than 1/2 inch (12.7 mm).
 - Cement board having a thickness of not less than 1/2 inch (12.7 mm).
 - Built-up roofing membrane.
 - Modified bituminous roof membrane.
 - Fully adhered single-ply roof membrane.
 - A Portland cement/sand pargol, or gypsum plaster having a thickness of not less than 5/8 inch (15.9 mm).
 - Cash-in-place and precast concrete.
 - Fully grouted concrete block masonry.
 - Sheet steel or aluminum.
 - Solid or hollow masonry constructed of clay or shale masonry units.

C402.5.1.2.2 Assemblies. Assemblies of materials and components with an average air leakage not greater than 0.04 cfm/sq. ft. (0.2 L/s * m²) under a pressure differential of 0.3 inch of water gauge (w.g.) (75 Pa) when tested in accordance with ASTM E2837, ASTM E1477 or ASTM E283 shall comply with this section. Assemblies listed in Items 1 through 3 shall be deemed to comply, provided that joints are sealed and the requirements of Section C402.5.1.1 are met.

- Concrete masonry wall coated with either one application of block filler or two applications of a paint or sealer coating.
- Masonry walls constructed of clay or shale masonry units with a nominal width of 4 inches (102 mm) or more.
- A Portland cement/sand pargol, stucco or plaster not less than 1/2 inch (12.7 mm) in thickness.

C402.5.2 Air leakage of fenestration. The air leakage of fenestration assemblies shall meet the provisions of Table C42.5.2. Testing shall be in accordance with the applicable reference test standard in Table C402.5.2 by an accredited, independent testing laboratory and labeled by the manufacturer.

Exceptions:

- Field-fabricated fenestration assemblies that are sealed in accordance with Section C402.5.1.
- Fenestration in buildings that comply with the testing alternative of Section C402.5 are not required to meet the air leakage requirements in Table C402.5.2.

C402.5.7 Vestibules. Building entrances shall be protected with an enclosed vestibule, with all doors opening into and out of the vestibule equipped with self-closing devices. Vestibules shall be designed so that in passing through the vestibule it is not necessary for the interior and exterior doors to open at the same time. The installation of one or more revolving doors in the building entrance shall not eliminate the requirement that a vestibule be provided on any doors adjacent to revolving doors.

C402.5.8 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be all of the following:

- IC-rated.
- Labeled as having an air leakage rate of not more 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential.
- Sealed with a gasket or caulk between the housing and interior wall or ceiling covering.

COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Creekside Bible Church Renovation and Classroom Addition
 Location: Castle Rock, Colorado
 Project Type: Addition
 Vertical Glazing / Wall Area: 9%

Construction Site: 2180 I-25, Castle Rock, Colorado 80104
Owner/Agent: Charles Vaughan, Creekside Bible Church, 2180 I-25, Castle Rock, Colorado 80104
Designer/Contractor: Kevin Calme, Lee Architects, 2525 South Wadsworth Boulevard, Denver, Colorado 80227, 7299274830, kcalme@leearchitects.com

Building Area	Floor Area
1-Church (Religious Building) - Nonresidential	5465

Envelope Assemblies

Assembly	Gross Area of Perimeter	Cavity R-Value	Cont. U-Factor	Proposed U-Factor	Budget U-Factor
Roof: Attic Roof, Wood Joist, (Bldg. Use 1 - Church)	5984	38.0	0.0	0.027	0.027
South Ext. Wall: Steel-Framed, 16in. o.c., (Bldg. Use 1 - Church)	1284	19.0	12.0	0.047	0.064
Window: Meta Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 4644, SHGC 0.33, (Bldg. Use 1 - Church) b	93	---	---	0.280	0.380
Door: Insulated Metal, Swinging, (Bldg. Use 1 - Church) b	24	---	---	0.600	0.370
East Ext. Wall: Steel-Framed, 16in. o.c., (Bldg. Use 1 - Church)	806	19.0	12.0	0.047	0.064
Window: Meta Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 4644, SHGC 0.33, (Bldg. Use 1 - Church) b	93	---	---	0.280	0.380
Door: Insulated Metal, Swinging, (Bldg. Use 1 - Church) b	46	---	---	0.600	0.370
North Ext. Wall: Steel-Framed, 16in. o.c., (Bldg. Use 1 - Church)	1282	19.0	12.0	0.047	0.064
Window: Meta Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 4644, SHGC 0.33, (Bldg. Use 1 - Church) b	117	---	---	0.280	0.380
Floor: Unheated Slab-On-Grade, Vertical 3 ft., (Bldg. Use 1 - Church) (c)	274	---	8.0	0.526	0.540

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Project Title: Creekside Bible Church Renovation and Classroom Addition
 Data filename: Report date: 11/18/24
 Page 1 of 9

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Calme, Project Manager
 Signature: *Kevin Calme*
 Date: 11/18/2024



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CREEKSIDE BIBLE CHURCH RENOVATION & ADDITION
 2180 I-25
 CASTLE ROCK, CO 80104
CREEKSIDE BIBLE CHURCH

Job No: 24010

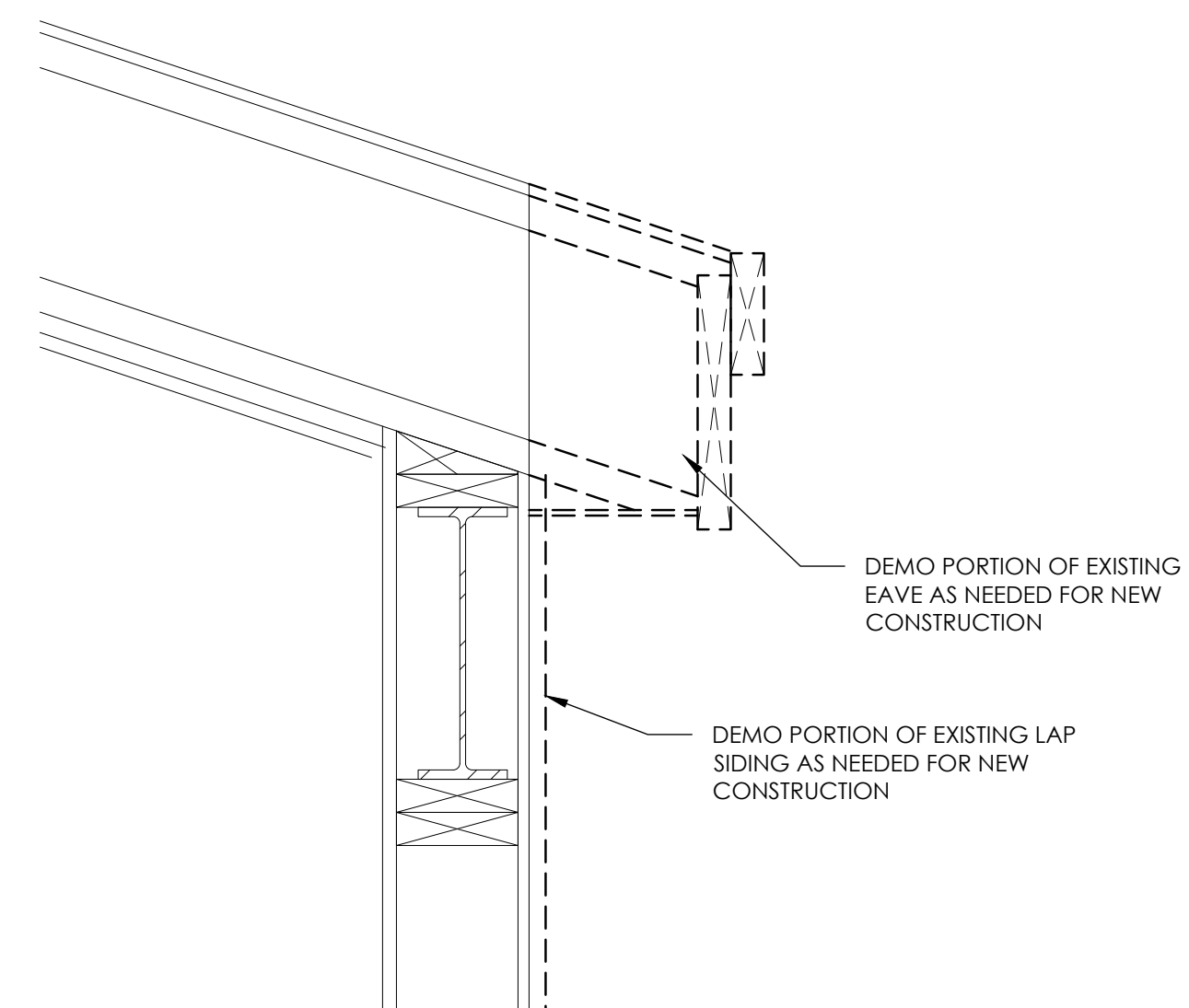
Revisions / Submittals:
 No. Date Description
 1 11/19/2024 Permit Issue Set

Date: 11/18/2024

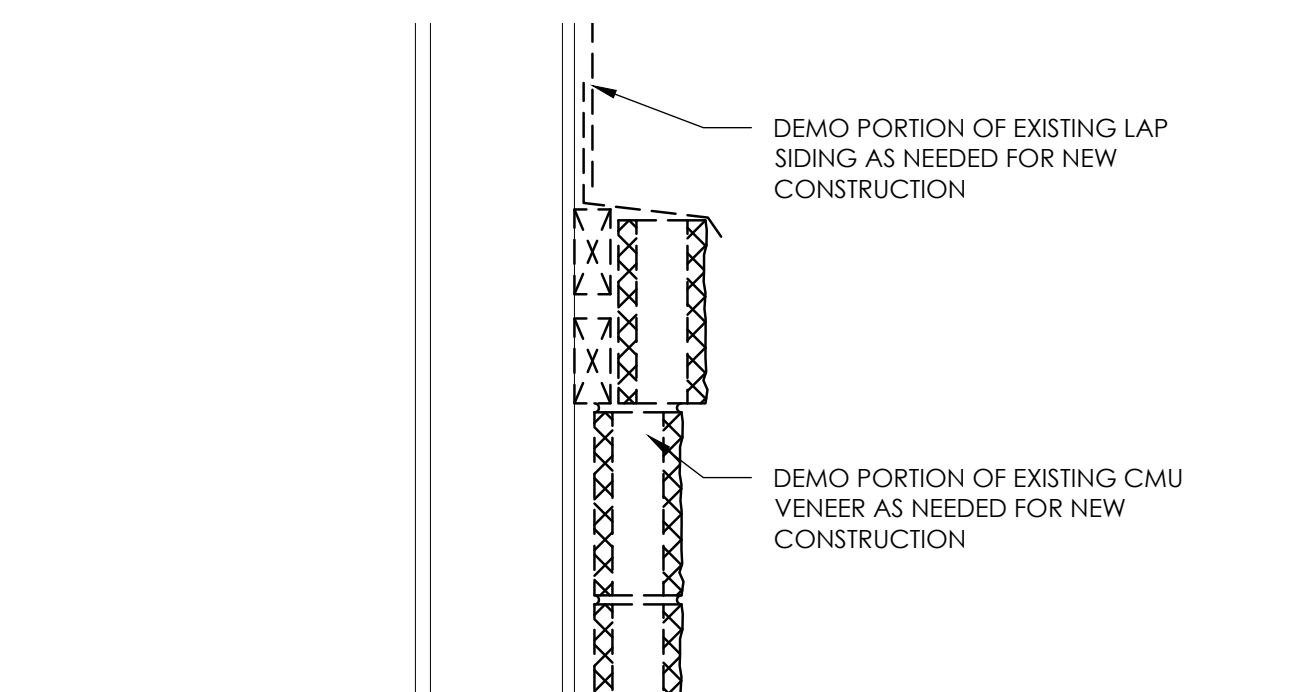
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 Checked by: KC

ENERGY COMPLIANCE

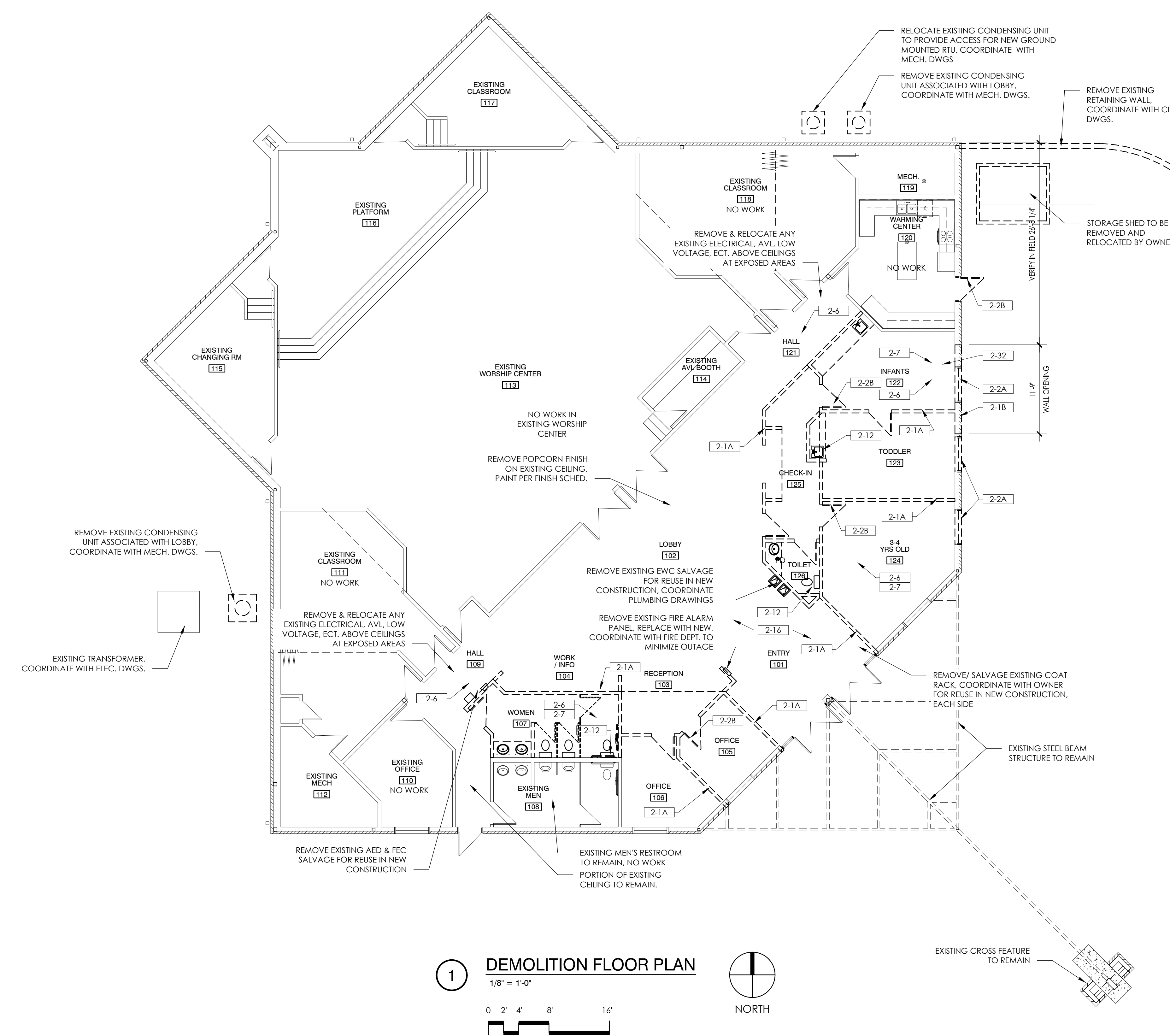
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2 (E) EAVE DEMO DETAIL
1 1/2" = 1'-0"



3 (E) WALL DEMO DETAIL
1 1/2" = 1'-0"



1 DEMOLITION FLOOR PLAN
1/8" = 1'-0"
0 2' 4' 8' 16'
1/8" = 1'-0"
NORTH

DEMOLITION GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION RELATED CONDITIONS PRIOR TO STARTING DEMOLITION.
- CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE BUILDING IN WEATHER TIGHT CONDITION.
- ALL SITE DEMOLITION ACTIVITIES SHALL BE COORDINATED WITH THE CITY ENGINEER TO MINIMIZE DISRUPTION OF THE ADJACENT PROPERTIES. CONSTRUCTION ACTIVITIES SHALL BE DURING NORMAL BUSINESS HOURS UNLESS COORDINATED IN ADVANCE WITH THE CITY ENGINEER AND ADJACENT PROPERTY OWNERS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO PROPERTIES ADJACENT TO WORK AREAS AND IS RESPONSIBLE FOR DAMAGE CAUSED BY NATURAL FORCES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING FROM THE BUILDING AND THE CONSTRUCTION SITE ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT RETAINED BY THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL SALVAGE ITEMS WHICH WILL BE REUSED.
- TEMPORARY BARRICADES SEPARATING CONSTRUCTION ACTIVITIES SHALL BE INSTALLED TO PREVENT POSSIBLE INJURY TO PERSONS IN AND AROUND DEMOLITION AND CONSTRUCTION AREAS IN ACCORDANCE WITH OSHA REQUIREMENTS. COORDINATE WITH THE CITY ENGINEER. DUST PARTITIONS SHALL BE INSTALLED. IN ACCORDANCE WITH OSHA FIRE PROTECTION AND EGRESS REQUIREMENTS. ON COMPLETION OF WORK, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT MATERIALS.

- COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
- WHERE REMOVAL OF FLOOR COVERINGS AND WALL BASE ARE REQUIRED, DEMOLITION INCLUDES REMOVAL OF ADHESIVES, GROUING BEDS, ETC. AND REQUIRES REMAINING SURFACES TO BE PREPARED FOR NEW CONSTRUCTION.
- ALL ACUSTICAL CEILINGS AND RELATED SUPPORT SYSTEMS TO BE REMOVED SHALL INCLUDE CEILING TILES, LIGHT FIXTURES, GRILLES, DIFFUSERS, EXIT SIGNS, ELECTRICAL, COMMUNICATIONS, ETC.
- WALLS TO BE REMOVED SHALL BE FROM FLOOR TO STRUCTURE ABOVE AND SHALL INCLUDE ALL MECHANICAL, ELECTRICAL EQUIPMENT, ETC. PREPARE ALL DISTURBED AREAS FOR NEW CONSTRUCTION.
- REMOVE ALL MISCELLANEOUS EQUIPMENT ATTACHED TO WALLS, FLOORS OR CEILINGS SUCH AS TACK BOARDS, SHELVING, CURTAIN TRACKS, TOILET PARTITIONS, FREEZERS, REFRIGERATED ROOMS, ETC. COORDINATE WITH OWNER REGARDING ITEMS TO BE SALVAGED.
- ALL NON-ATTACHED ITEMS SUCH AS MOBILE EQUIPMENT, DESKS, TABLES, CHAIRS, SHELVING, ETC. SHALL BE REMOVED BY CONTRACTOR.
- REMOVAL OF EXISTING PLUMBING FIXTURES TO INCLUDE PIPING, WASTE LINES, ETC. LINES SHALL BE CAPPED AS REQUIRED. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
- REMOVAL OF EXISTING HVAC SHALL INCLUDE DUCT WORK HANGERS, GRILLES, DIFFUSERS, THERMOSTATS, ETC. AS REQUIRED. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- ALL EXISTING WIRING, CONDUIT, TELEPHONES, P.A. SYSTEMS, INTERCOMS, ETC., OR PORTIONS THEREOF, REMOVED DURING DEMOLITION UNLESS SHOWN OTHERWISE SHALL NOT BE REUSED.

- REMOVAL OF EXISTING ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, WIRE, CABLE, SUPPORTS, WIRING DEVICES, SAFETY SWITCHES, FIRE ALARM EQUIPMENT, TELEPHONE OUTLETS AND LIGHTING FIXTURES. BRANCH CIRCUIT REMOVAL SHALL BE BACK TO PANEL BOARD OR FIRST REMAINING ACTIVE JUNCTION BOX. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
- PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF ADJACENT PROPERTIES AND WORKERS.
- ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- NOISE DURING DEMOLITION AND CONSTRUCTION SHALL BE KEPT TO A MINIMUM.
- ALL EXISTING SERVICES AND UTILITIES SHALL BE MAINTAINED TO ADJACENT PROPERTY OWNERS THAT ARE IN OPERATION AND SERVED BY THESE UTILITIES AND SERVICES. COORDINATE ALL DISRUPTIONS OR DISCONTINUATIONS OF UTILITIES AND SERVICES WITH THE CITY ENGINEER.
- EXISTING ITEMS, EQUIPMENT, RAILINGS, PLUMBING, FIXTURES, ETC. TO REMAIN IN PLACE SHALL BE PROTECTED FROM DIRT AND DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION REGARDING DEMOLITION OF MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
- ALL AREAS TO BE DEMOLISHED OR DISTURBED BY ANY DEMOLITION ARE TO BE PATCHED AND PREPARED FOR NEW FINISHES IF PAINTING IS REQUIRED. ENTIRE WALL SHALL RECEIVE PAINT (TO NEAREST LOGICAL STOPPING POINT) TO AVOID MISMATCH OF COLOR.
- IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO THE OWNER. REMOVAL OF CONCRETE SLABS SHALL INCLUDE PREPARATION FOR NEW CONSTRUCTION.

- ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED AND CLOSED OFF TO MAINTAIN PROPER FIRE RATING IN WALL OR FLOOR. PREPARE PATCHES TO RECEIVE NEW FINISHES AS INDICATED.
- WHEN PATCHING OF EXISTING FLOOR IS REQUIRED, SLOPING OR RAMMING IN EXCESS OF CONTRACT TOLERANCES WILL NOT BE ALLOWED (1/8" PER 10 FEET MAXIMUM), UNLESS NOTED OTHERWISE.
- COMPLETELY CLOSE ALL ABANDONED EXISTING CEILING, WALL AND FLOOR OPENINGS AND PATCH TO MATCH EXISTING CONSTRUCTION.
- REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- THROUGHOUT ENTIRE CONSTRUCTION DURATION CONTRACTOR TO PROVIDE LABOR AND MATERIALS TO REPAIR ALL DISTURBED ELEMENTS.
- WHERE A FIRE RATING HAS BEEN GIVEN TO AN EXISTING WALL, ALL PENETRATIONS (EXISTING OR NEW) MUST BE SEALED PROPERLY AND FIREPROOFED PER THAT FIRE RATING REQUIREMENT.
- PROVIDE WALK-OFF MATS AT ENTRIES TO CONSTRUCTION AREA. DAMP MOP DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
- AIR EXHAUST FROM THE AREA OF WORK SHALL BE DIRECTED AWAY FROM ADJACENT OCCUPIED PROPERTIES.
- ABATEMENT PERMITS ARE REQUIRED WHEN REMOVING FRIABLE OR NON-FRIABLE ACM ABOVE STATE OF COLORADO TRIGGER LEVELS.
- CONTRACTOR TO COORDINATE WITH OWNER REGARDING ITEMS TO BE SALVAGED AND REUSED, INCLUDING BUT NOT LIMITED TO FIRE EXTINGUISHERS, DRINKING FOUNTAINS, OVERHEAD DOORS, PLUMBING FIXTURES & FITTINGS, DOORS & HARDWARE, BATHROOM ACCESSORIES, ETC.

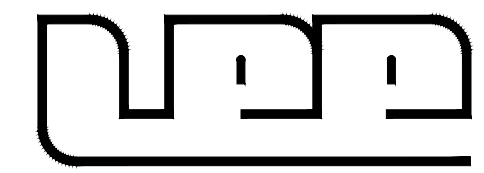
NOTE: ALL CONTRACTORS SHALL BE CAUTIONED THAT THERE ARE EXTENSIVE AUDIO VISUAL SYSTEMS AND THEATRICAL LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT. CARE MUST BE TAKEN TO MINIMIZE ANY INTERACTION BETWEEN THE AV SYSTEMS AND M & E SYSTEMS THROUGH CONDUIT OR BY OTHER MEANS

DRAWING NOTES

- DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP. BD. MASONRY OR CONCRETE UNO. AT EXTERIOR WALL STUDS. DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES.
- REMOVE EXISTING INTERIOR WALL CONSTRUCTION AS SHOWN. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF ITEMS LOCATED IN THESE WALLS. REFER TO NEW CONSTRUCTION FOR EXTENT OF VERTICAL DEMOLITION AND POSSIBLE SALVAGE ITEMS.
- REMOVE EXISTING EXTERIOR WALL CONSTRUCTION AS SHOWN. FIELD VERIFY EXISTING STRUCTURAL COMPONENTS IN WALL AND VERIFY WITH STRUCTURAL ENGINEER. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF ITEMS LOCATED IN THESE WALLS. REFER TO NEW CONSTRUCTION FOR EXTENT OF VERTICAL DEMOLITION AND POSSIBLE SALVAGE ITEMS.
- REMOVE EXISTING WINDOW AND FRAME. PREP FOR NEW CONSTRUCTION. SALVAGE AND RE-INSTALL AS INDICATED.
- REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
- REMOVE PORTION OF EXISTING CEILING SYSTEM ABOVE AS REQD FOR NEW CONSTRUCTION. RE: ELEC / MECH DRAWINGS ON RECONFIGURING EXISTING BUILDING SYSTEMS.
- REMOVE EXISTING FLOOR FINISH AND PREP FOR NEW FINISH.
- REMOVE EXISTING TOILET AND WALL BRACKET, CAP EXISTING PLUMBING STUBS IN WALL AND BENEATH FLOOR.
- SALVAGE EXISTING FIRE EXTINGUISHERS AND CABINETS FOR RE-USE IN NEW PLAN. OWNER SHALL REMOVE ALL EXISTING FURNITURE, DISPLAY STANDS, NON-ATTACHED ITEMS ETC. GO TO REMOVE BUILT-IN CASEWORK, MILLWORK ITEMS, TOILET ROOM ACCESSORIES, ETC. PROTECT ITEMS DESIGNATED FOR RE-USE IN NEW PLAN.
- PROTECT EXISTING WALLS/ HALF WALLS DURING CONSTRUCTION, TYP.
- EXISTING COLUMN AND STRUCTURAL MEMBERS TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING GYP. AND LAY-IN CEILINGS TO REMAIN. PROTECT DURING CONSTRUCTION. PATCH/ REPAIR AS REQD. TO HAVE LIKE NEW APPEARANCE.
- PROTECT EXISTING STOREFRONT SYSTEM DURING CONSTRUCTION, TYP.
- PROTECT EXISTING CARPET NOT OTHERWISE INDICATED FOR REMOVAL DURING CONSTRUCTION AS REQUIRED.
- PROTECT EXISTING DOWNSPOUTS AND UNDERGROUND DRAINAGE. TIE INTO NEW DRAINAGE SYSTEM. RE: CIVIL DRAWINGS.
- PROTECT EXISTING SLAB



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RENOVATION & ADDITION**
21801-25
CASTLE ROCK, CO 80104



Job No: 24010

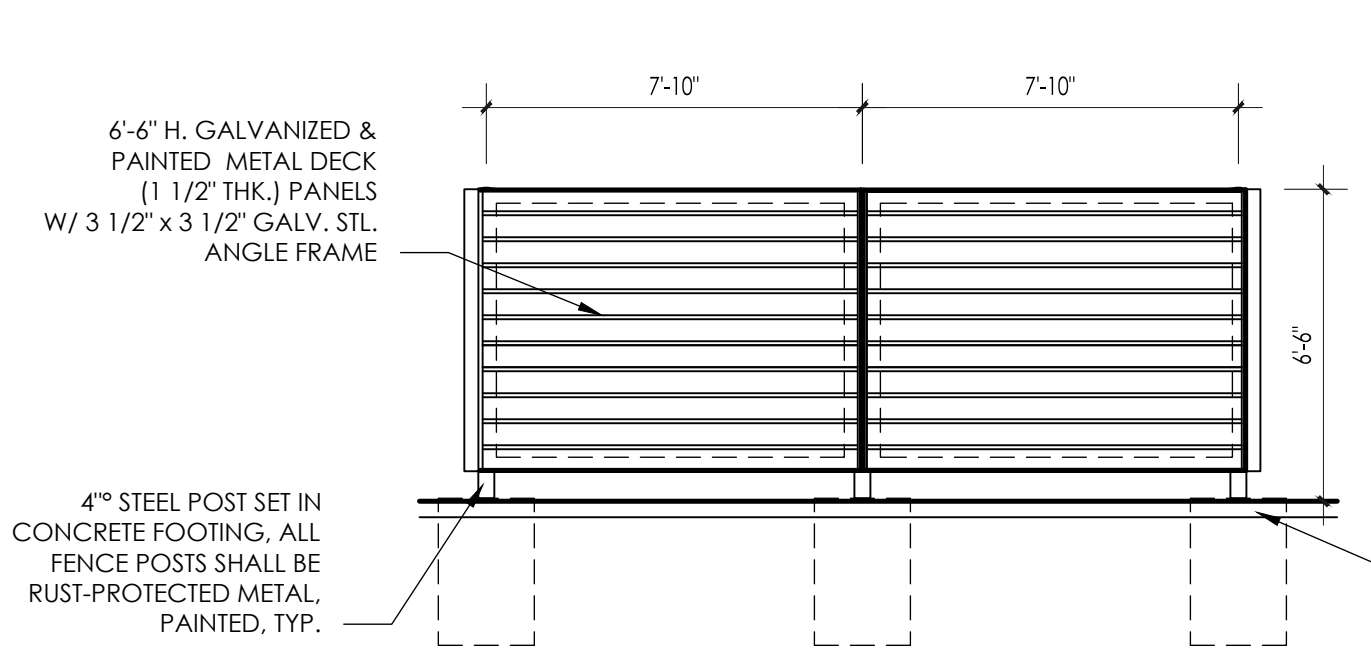
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1	11/18/2024	Permit Issue Set

Date 11/18/2024

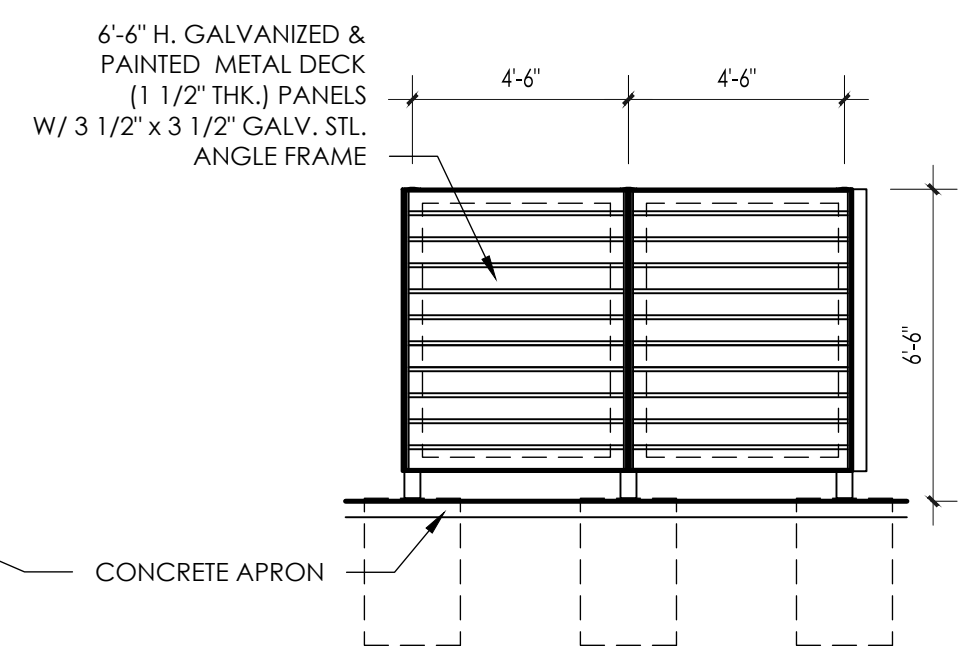
Drawn by KC Checked by KC

Title
DEMOLITION FLOOR PLAN

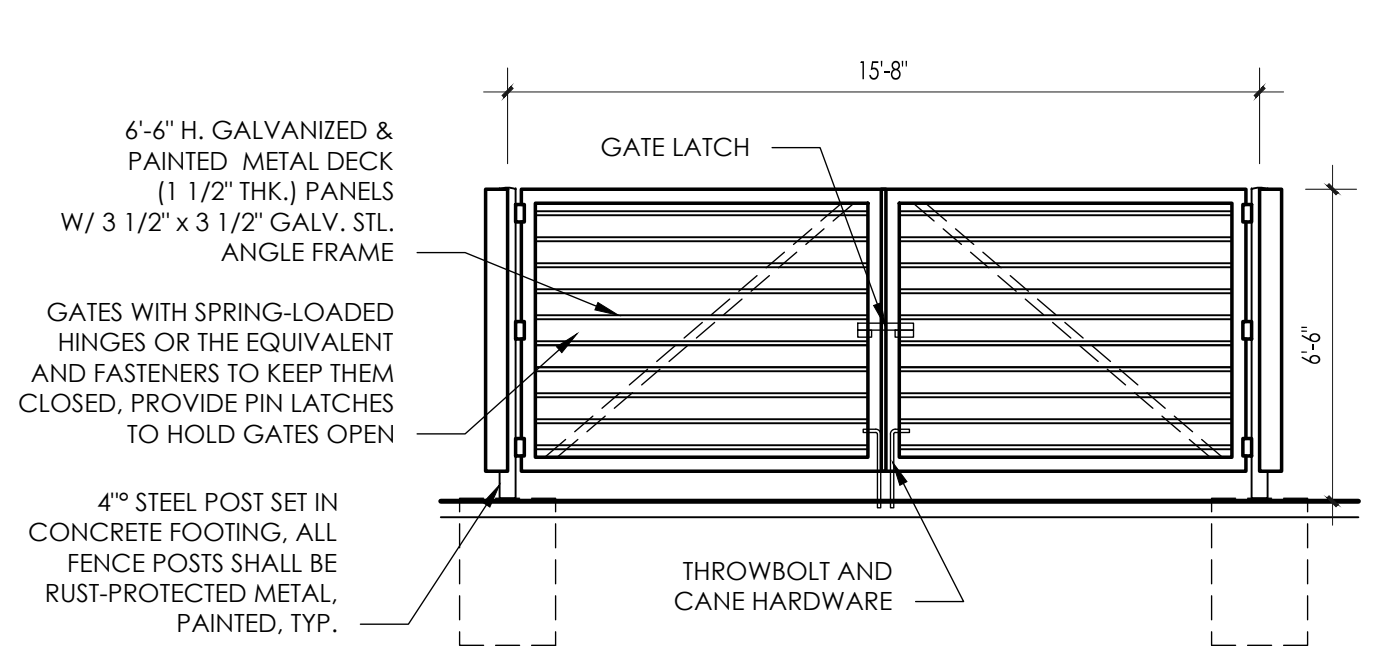
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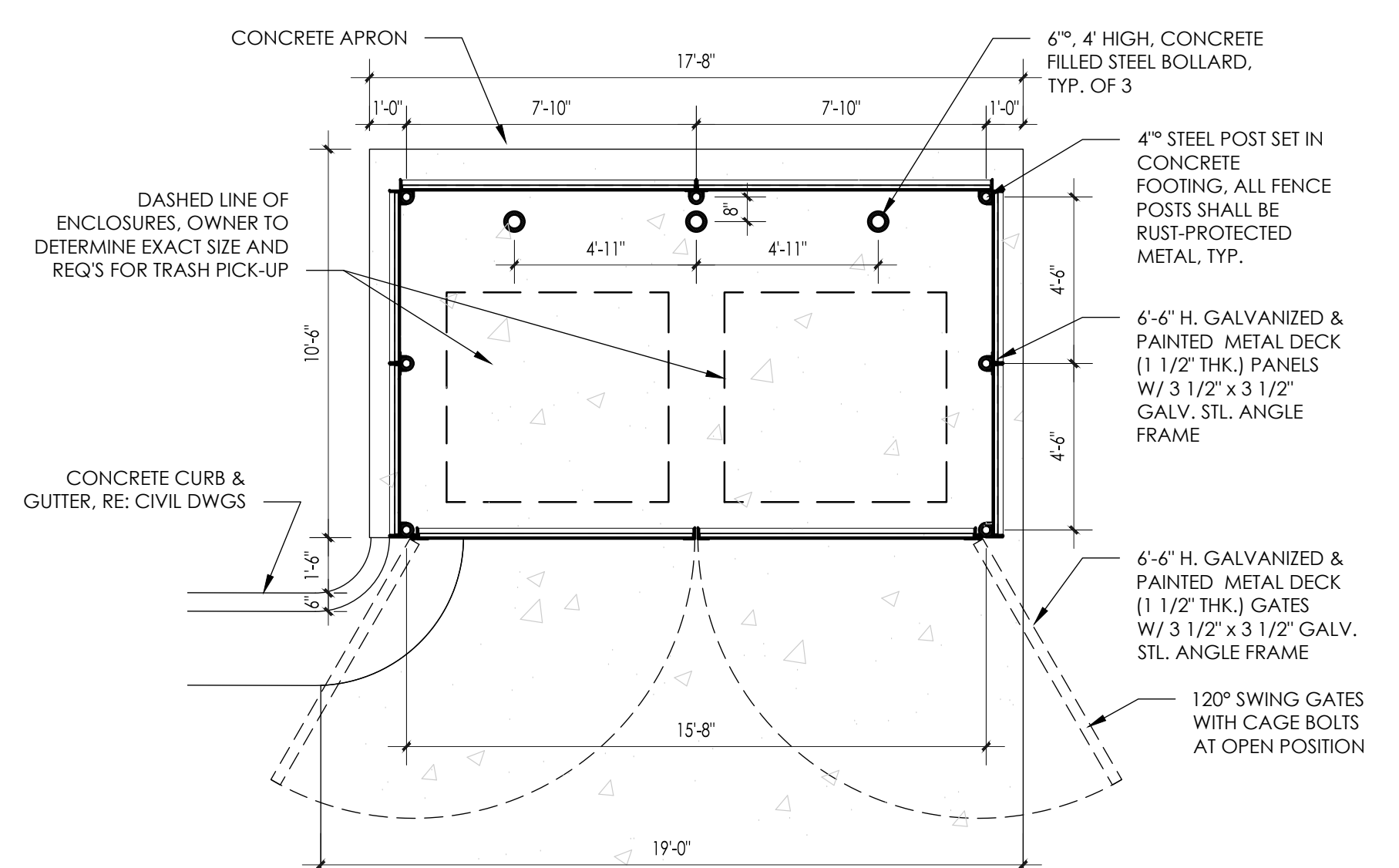
5 BACK
1/4" = 1'-0"



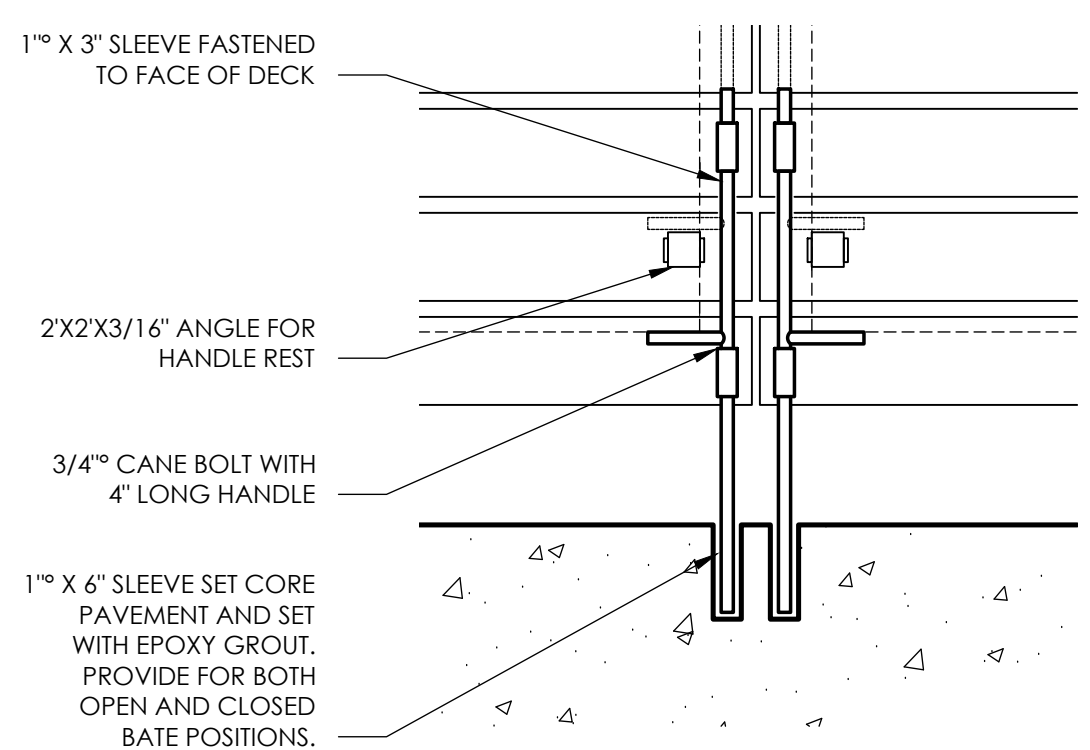
4 SIDE
1/4" = 1'-0"



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



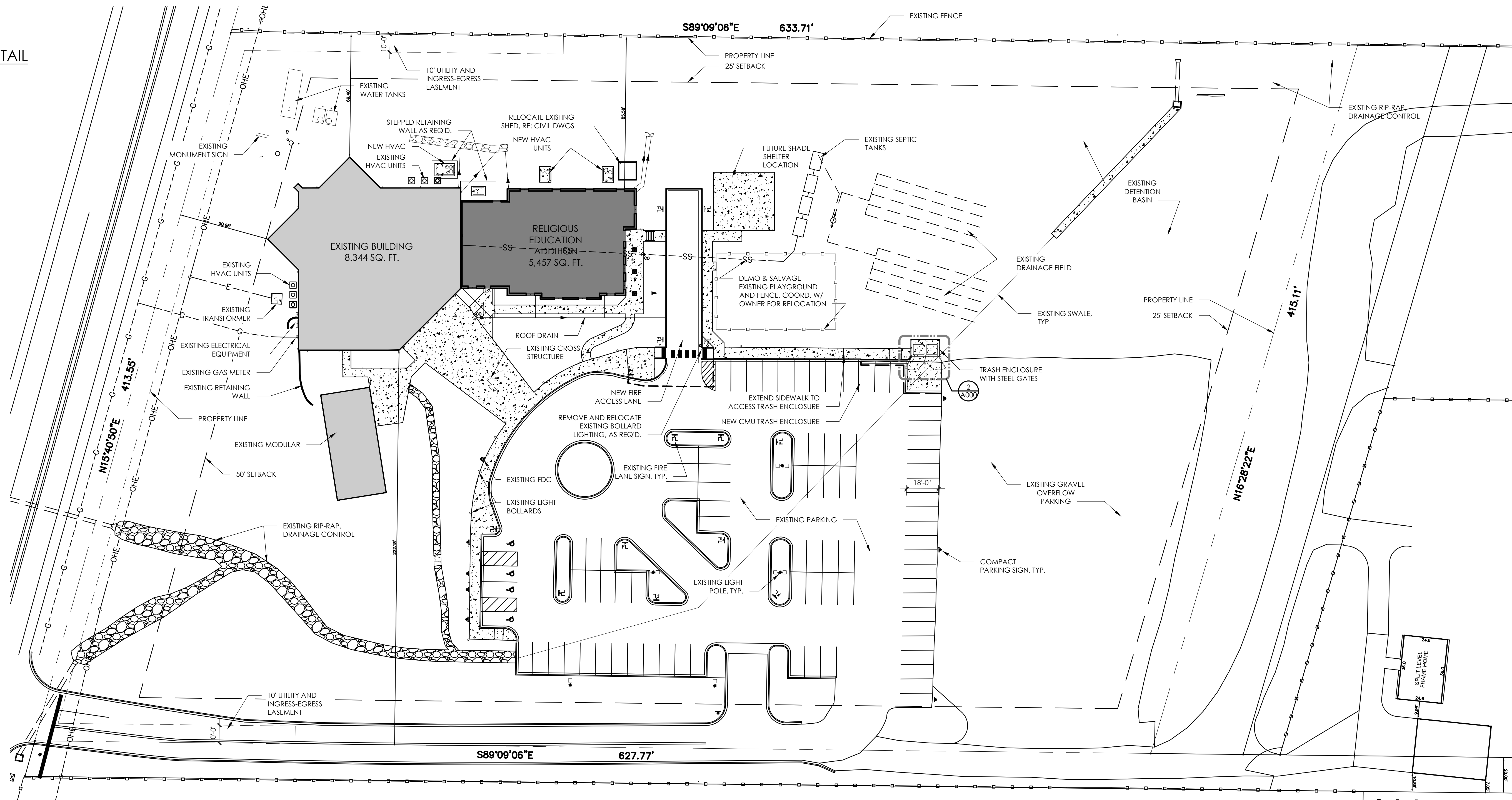
2 TRASH ENCLOSURE
1/4" = 1'-0"



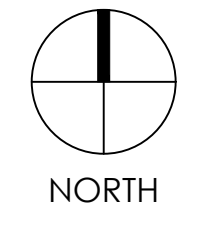
6 CANE BOLT DETAIL
1" = 1'-0"

SITE PLAN NOTES	
A	THIS ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL SITE DIMENSIONS, GRADING / EROSION CONTROL, UTILITY, LANDSCAPE AND IRRIGATION DESIGN INFORMATION.
B	PRIOR TO PROCEEDING W/ ROUGH GRADING, THE CONTRACTOR TO COORDINATE CIVIL GRADES W/ THE ARCHITECTURAL GRADES IN BUILDING DISCIPLINE. COMPARE TOP OF FINISH GRADES AT PERIMETER OF BUILDINGS, FLAT WORK & ADJOINING SITE AREAS. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
C	BUILDING PADS TO BE ROUGH GRADED AND RECOMPACTED PER THE SOILS REPORT AS PART OF THE SITE WORK.
D	ALL GRADING & CONCRETE PAVING SHALL SLOPE AWAY FROM THE BUILDING. CONTACT THE ARCHITECT OR CIVIL ENGINEER FOR ANY AREAS THAT CANNOT SLOPE AWAY DUE TO EXISTING CONDITIONS.
E	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ADEQUATE DRAINAGE THROUGHOUT THE SITE DURING THE PROCESS OF EXCAVATION & GRADING. THE GRADES SHALL BE MAINTAINED IN SUCH CONDITION THAT IT IS WELL DRAINED AT ALL TIMES.
F	VERIFY ALL DIMENSIONS TO BOUNDARY & SETBACK INFORMATION W/ PARCEL MAP ALTA SURVEY OF RECORD & NOTIFY ARCHITECT / CIVIL ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND.
G	ALL SITE UTILITIES STUBBED TO 5'-0" MINIMUM FROM BUILDING LIMIT LINE, TYPICAL. U.N.O.
H	VERIFY LOCATIONS OF EXISTING UTILITIES BEFORE PROCEEDING W/ EXCAVATIONS.
I	ALL MATERIALS & WORKMANSHIP FOR PUBLIC FACILITIES TO CONFORM TO THE LOCAL JURISDICTION STANDARD CONSTRUCTION SPECIFICATIONS.
J	THE CONTRACTOR SHALL COMPLY W/ ALL ORDINANCES AFFECTING THE PROJECT INCLUDING BUT NOT LIMITED TO HOURS OF WORK, SAFETY, DUST MITIGATION, ETC.
K	THE CONTRACTOR SHALL COORDINATE W/ THE TOWN / S/P ON ALL WORK IN PUBLIC RIGHT-OF-WAY AREAS.
L	VEHICULAR ACCESS DRIVES MUST BE PROVIDED & MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
M	THE CONTRACTOR SHALL COORDINATE & IMPLEMENT ALL SAFETY MEASURES REQUESTED & REQUIRED BY THE LOCAL FIRE MARSHAL, HEALTH DEPARTMENT, BUILDING OFFICIALS & OTHER GOVERNING AGENCIES.
N	THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS TO REMAIN FROM DAMAGE. DAMAGED ITEMS SHALL BE REPLACED, REPAIRED OR RESTORED BY THE CONTRACTOR. IF, IN THE OPINION OF THE CONTRACTOR, EXISTING IMPROVEMENTS TO REMAIN WILL BE DAMAGED OR REQUIRE REMOVAL, THE GENERAL CONTRACTOR SHALL IDENTIFY THESE TO THE OWNER PRIOR TO PRECEDING W/ REMOVAL.
O	LANDSCAPING BY OWNER.

PARKING COUNTS		
TYPE	REQUIRED	PROVIDED
ONSITE	84	85 (+78 OVERFLOW)
ADA	4	4
PARKING CALCULATIONS:		
1 SPACE FOR EACH 3 FIXED SEATS IN MAIN ASSEMBLY:		250 SEATS / 3 = 84 SPACES
TOTAL PARKING:		163 SPACES



1 ARCHITECTURAL SITE PLAN
1" = 30'
0 15' 30' 60'
1" = 30'-0"



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Job No: 24010

Revisions / Submittals:
No. Date Description
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Date 11/18/2024

Drawn by Checked by
KC KC

Title
ARCHITECTURAL
SITE PLAN

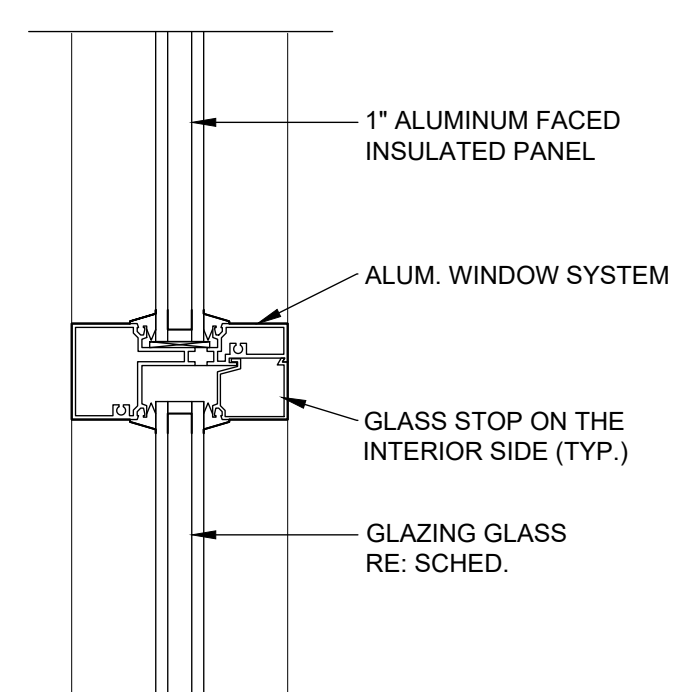
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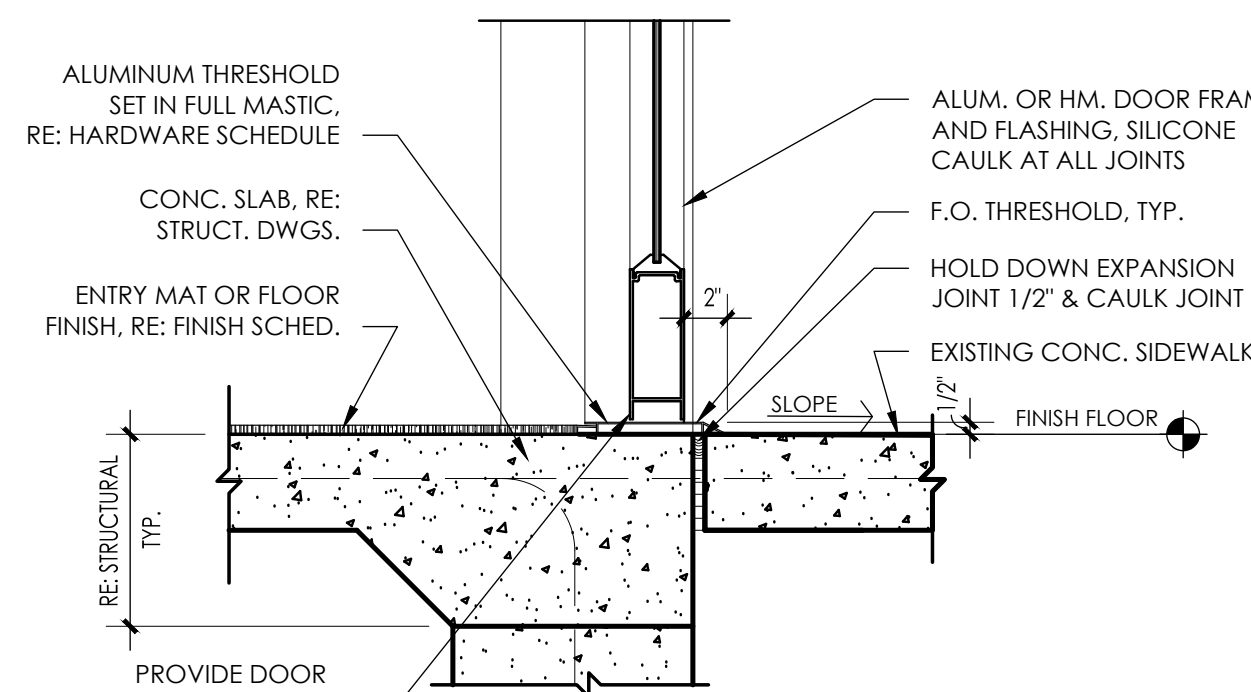
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 kcdm

11/19/24
 3:39 pm

Notes:
 R51AMP
 x11LE30x42
 xRFO_30x42
 xPREL_STAMP
 DOOR TYPES
 XD003DOOR
 XWINDOW DETAILS
 XD001DOOR
 XD004DOOR
 XD802STOREFRONT SILL DETAIL AT CMU
 XD803STOREFRONT HEAD DETAIL AT CMU
 XD803STOREFRONT SILL DETAIL
 XD803STOREFRONT HEAD DETAIL
 XD801STOREFRONT JAMB DETAIL AT CMU
 XD804STOREFRONT JAMB DETAIL
 ADA Clearances



12 ALUM MULLION WINDOW DETAIL
 3" = 1'-0"



8 DOOR THRESHOLD
 1 1/2" = 1'-0"

DOOR SCHEDULE REMARKS LEGEND

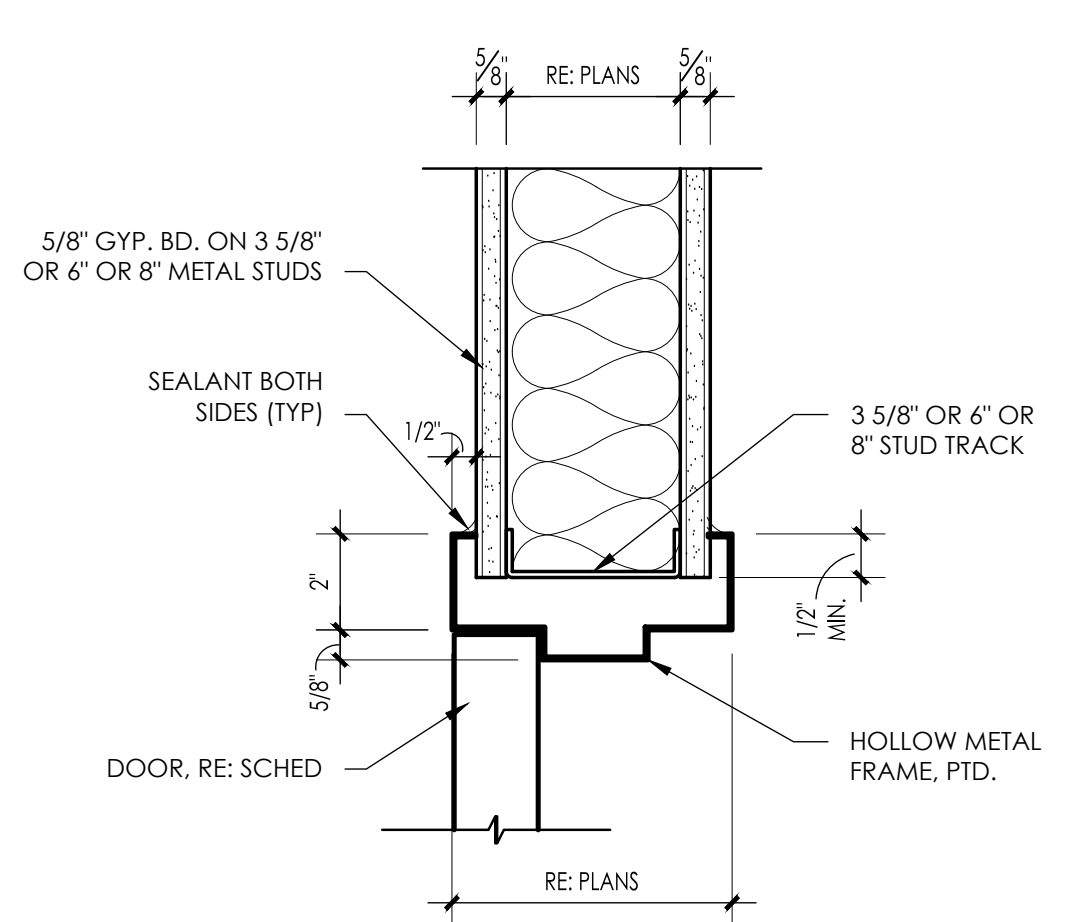
1	PANIC HARDWARE /CLOSURE /HOLD OPEN
2	PUSH-PULL BARS
3	NON-LATCHING
4	DOUBLE ACTING
5	ACCESS CONTROL, INTEGRATE WITH SECURITY SYSTEM
6	DOOR CLOSURE/ HOLD OPEN
7	PROVIDE SOUND ISOLATION, DOOR GASKETS, ACOUSTICAL DOOR SWEEP/SEAL
8	POWER OPERATED
9	POWER OPERATED, INCLUDE WEATHER STRIPPING

GLAZING LEGEND

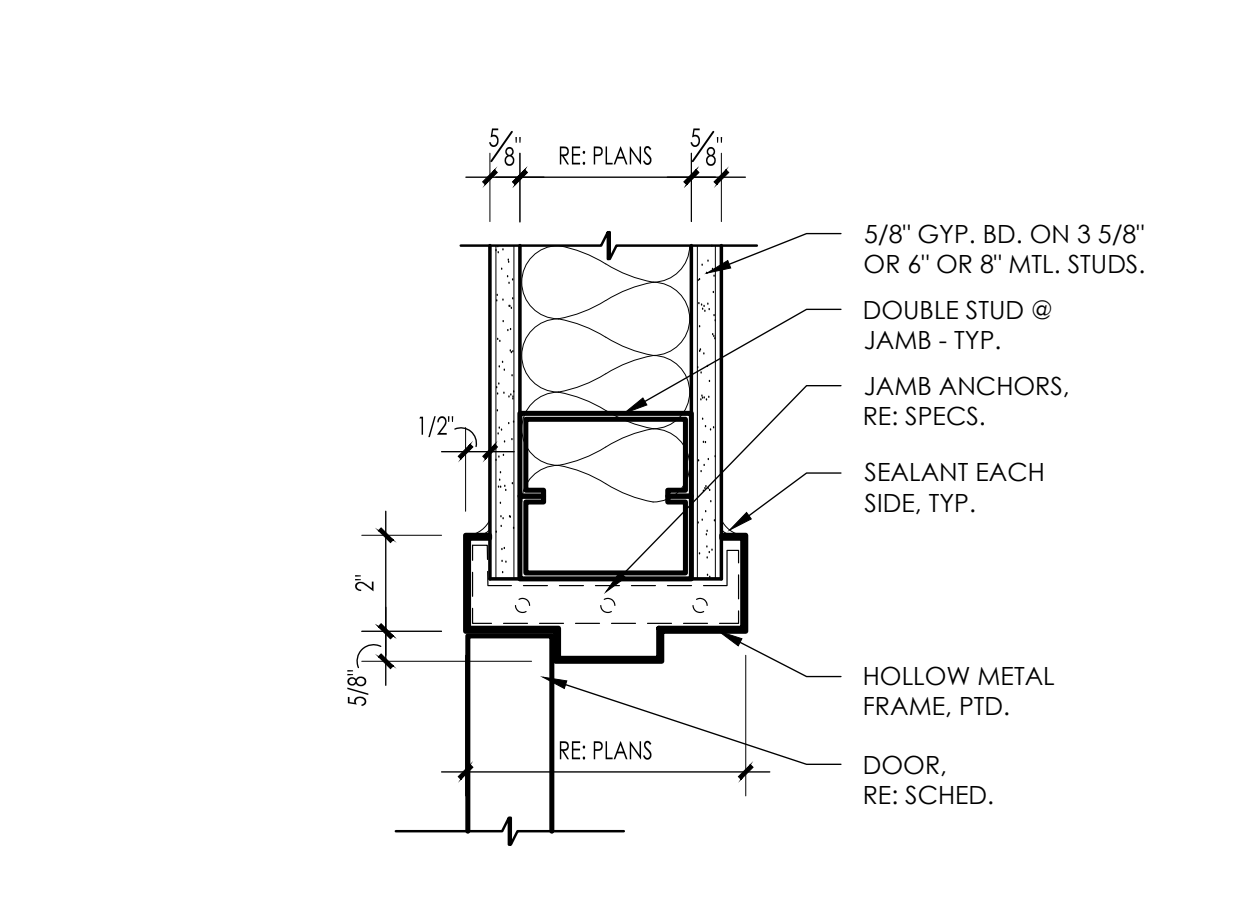
A	1" INSULATED TINTED GLASS, LOW 'E' (MATCH EXISTING)
B	1" INSULATED SAFETY, TINTED GLASS, LOW 'E' (MATCH EXISTING)
C	1/4" CLEAR FLOAT GLASS.
D	1/4" SAFETY CLEAR FLOAT GLASS.
E	1/4" SAFETY, TINTED GLASS

DOOR & WINDOW NOTES

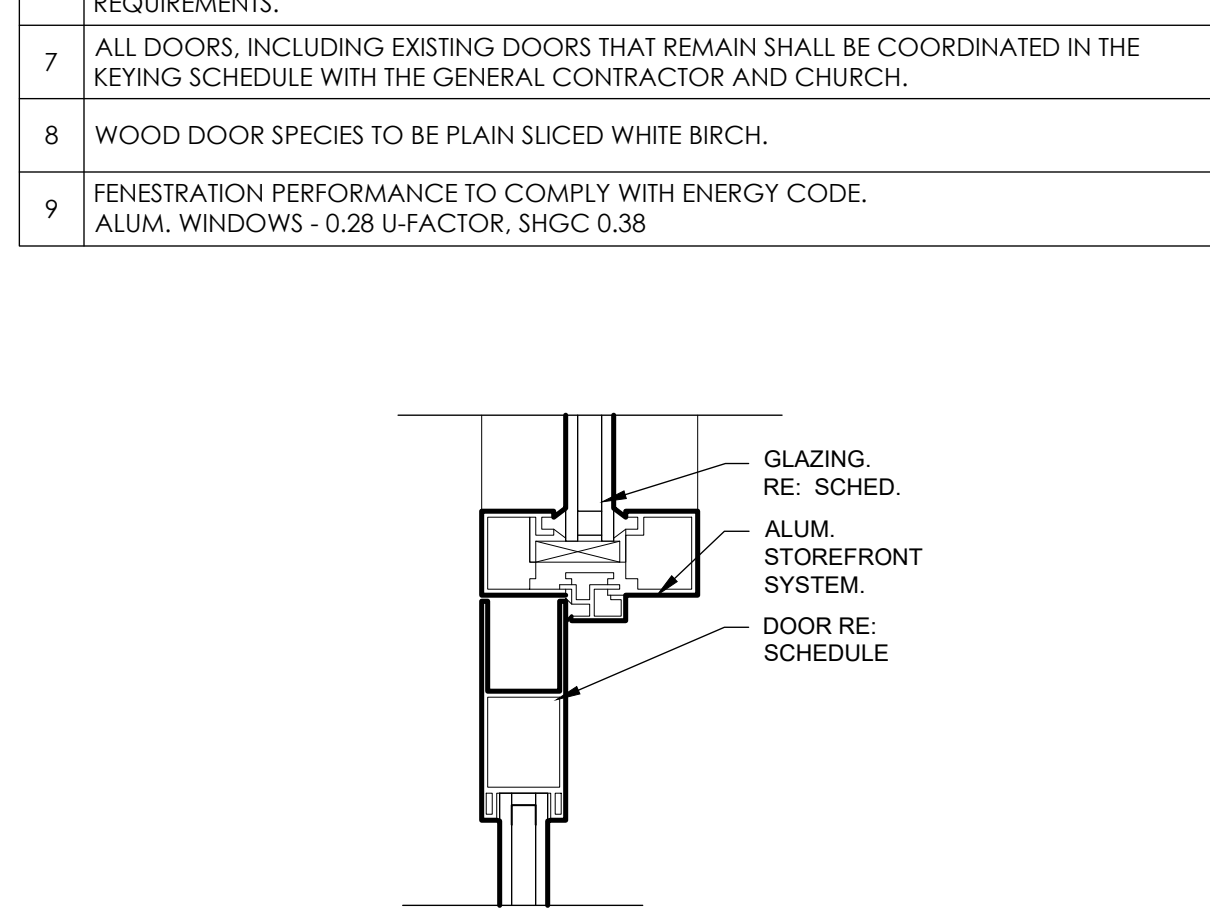
- FIELD VERIFY ALL DIMENSIONS.
- ALUMINUM FINISH TO BE ANODIZED, COLOR GREEN TO MATCH EXISTING.
- PROVIDE FITTINGS AND ACCESSORIES FOR A COMPLETE FUNCTIONAL AND WATER-TIGHT FRAME INSTALLATION.
- PROVIDE MATCHING ALUMINUM BREAK METAL CLOSURES AND FLASHING WHERE DETAILED AND REQUIRED.
- REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR DOOR HARDWARE SETS.
- REFER TO SPECIFICATIONS FOR GLAZING DESCRIPTIONS AND SEALANT /GASKETING REQUIREMENTS.
- ALL DOORS, INCLUDING EXISTING DOORS THAT REMAIN SHALL BE COORDINATED IN THE KEYING SCHEDULE WITH THE GENERAL CONTRACTOR AND CHURCH.
- WOOD DOOR SPECIES TO BE PLAIN SUCED WHITE BIRCH.
- FENESTRATION PERFORMANCE TO COMPLY WITH ENERGY CODE.
 ALUM. WINDOWS - 0.28 U-FACTOR, SHGC 0.38



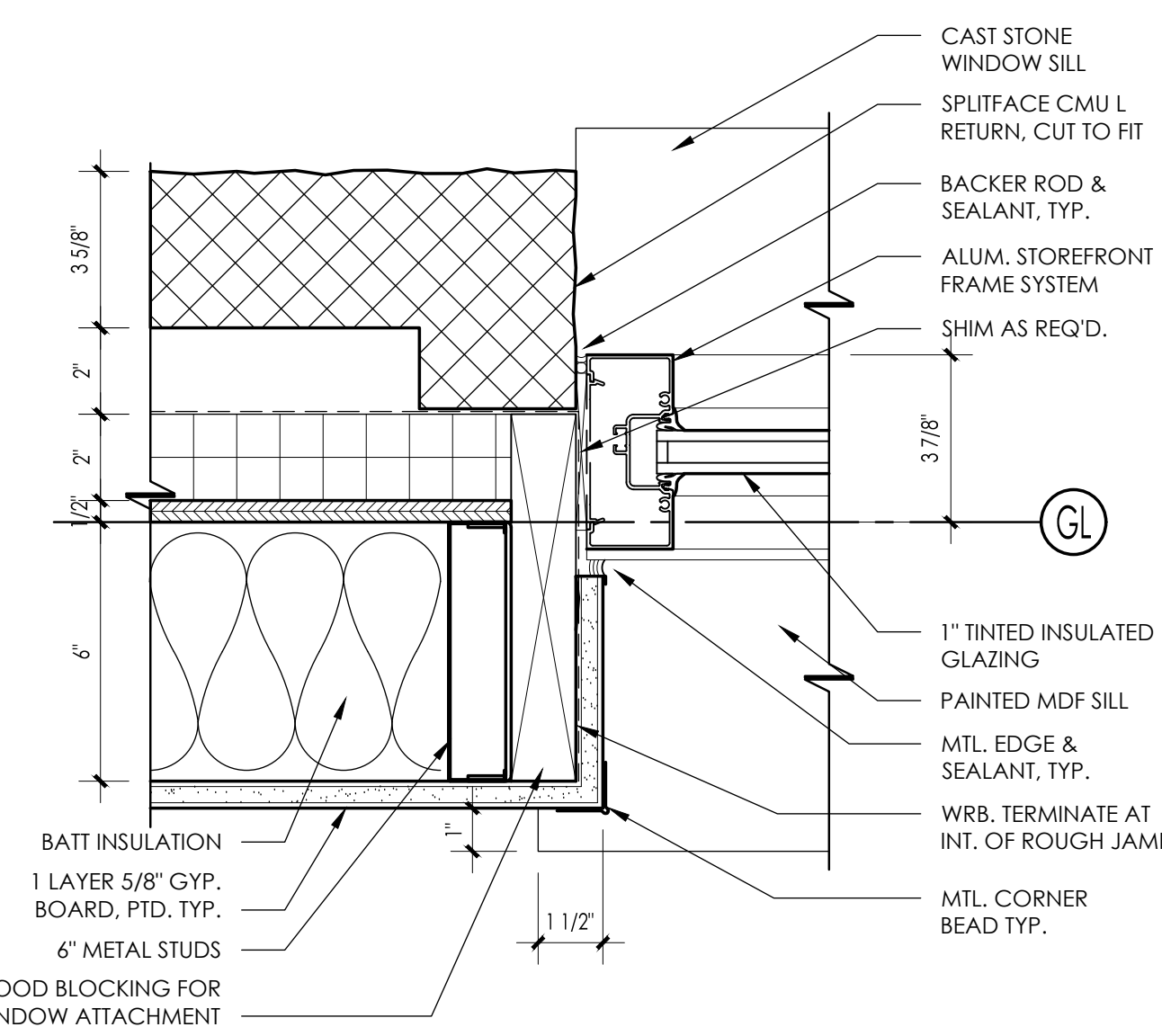
11 HM DOOR HEAD
 3" = 1'-0"



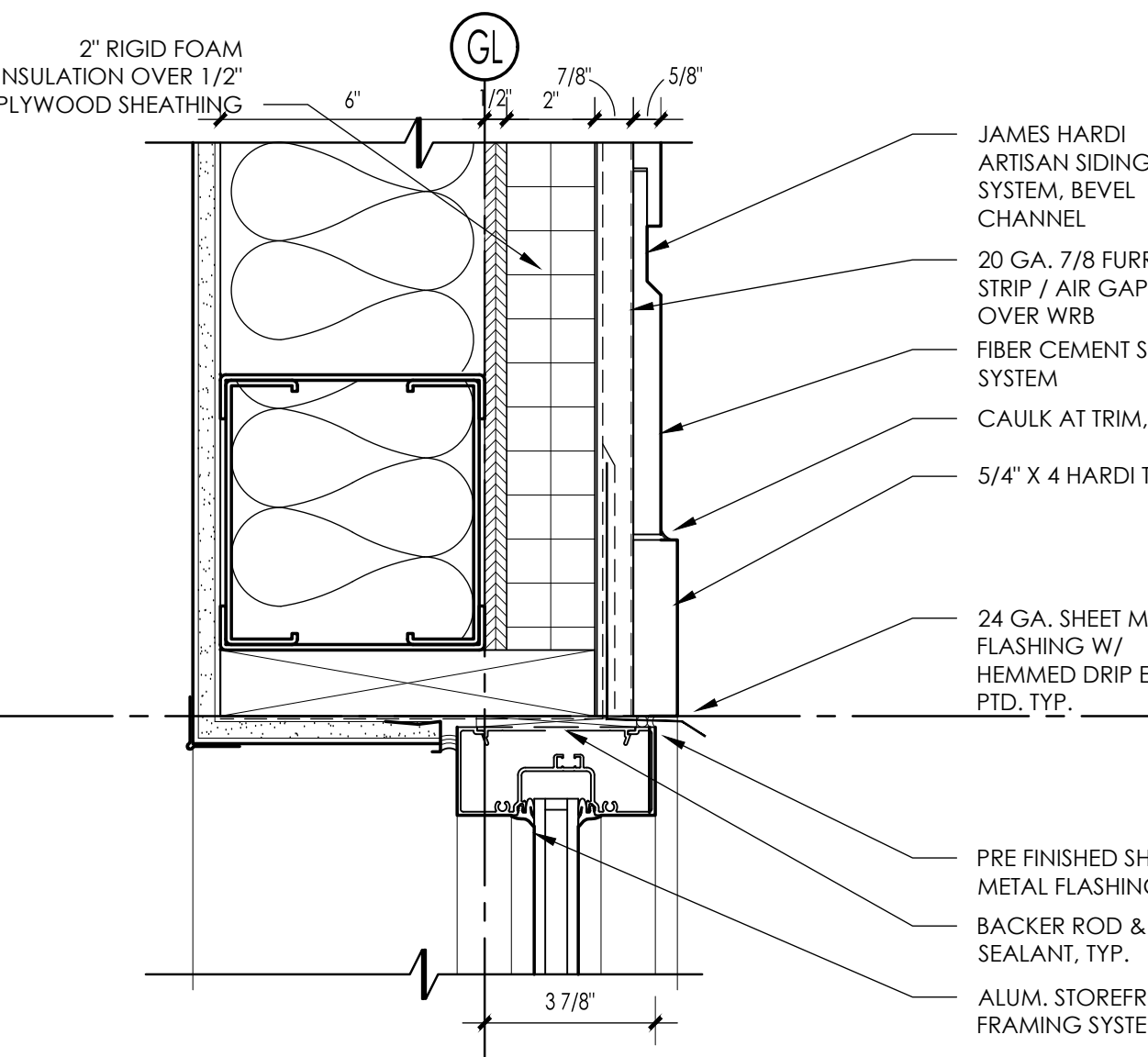
7 HM DOOR JAMB
 3" = 1'-0"



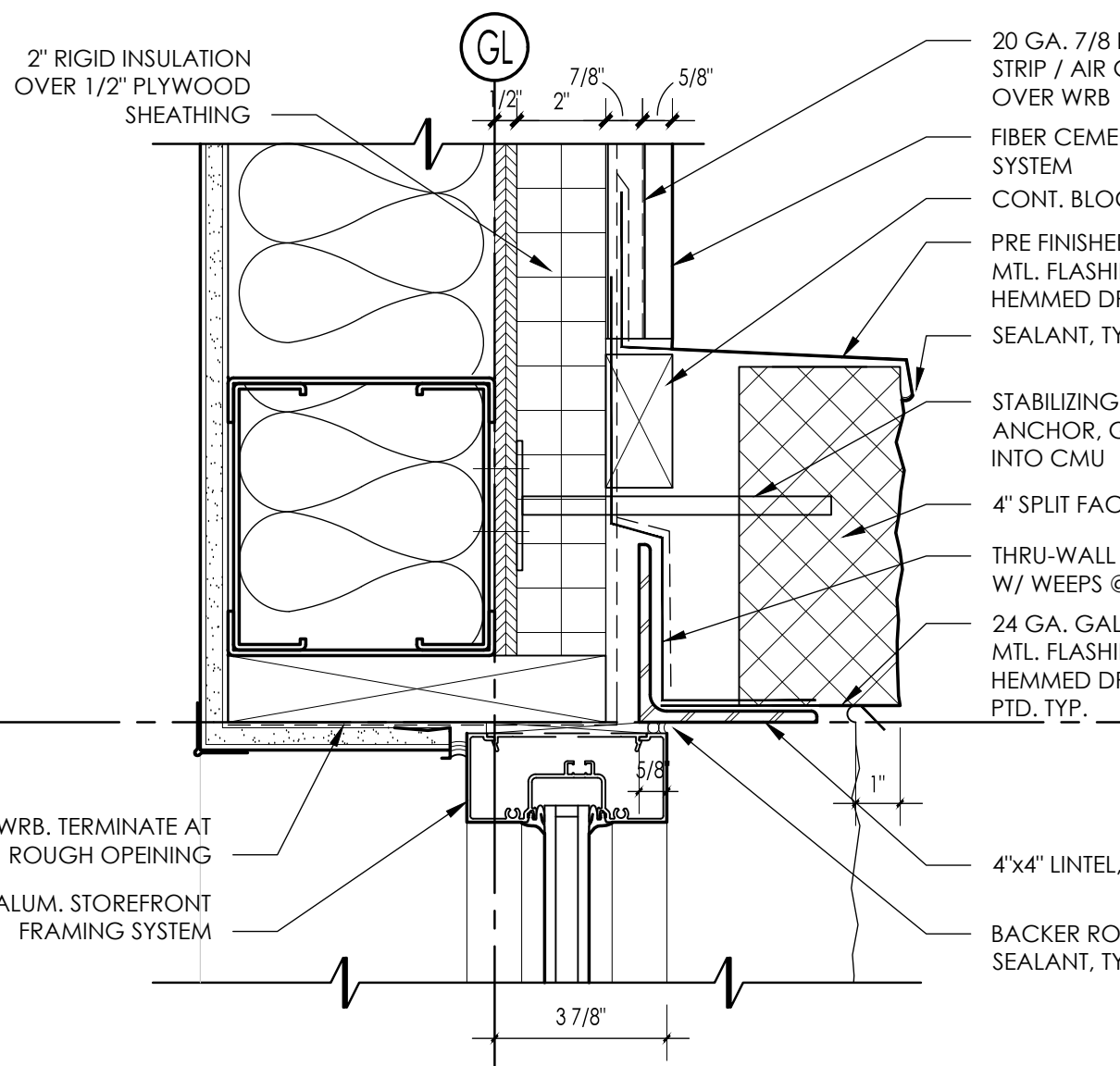
4 ALUM DOOR WINDOW MULLION
 3" = 1'-0"



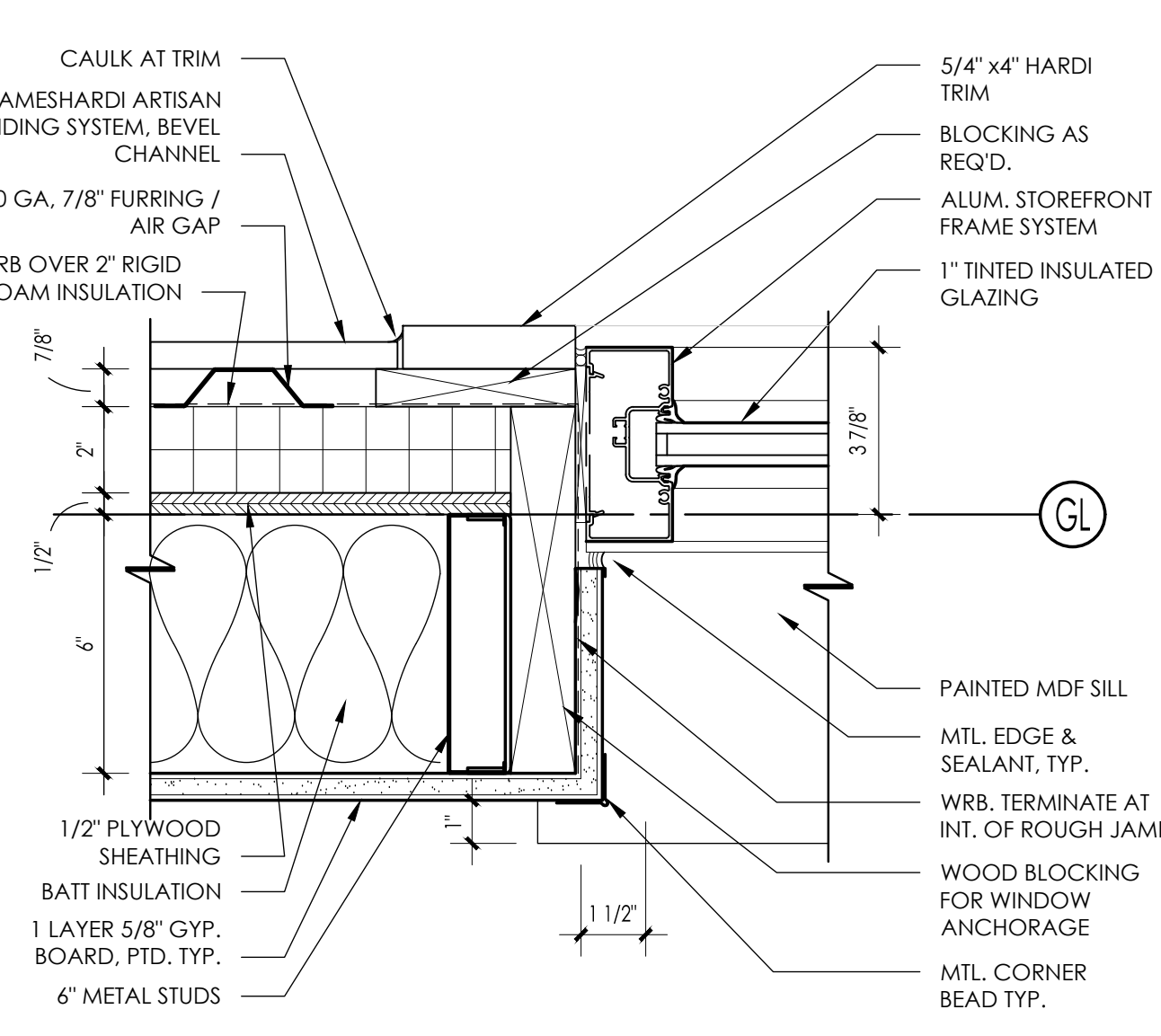
10 ALUM. WINDOW JAMB @ CMU VENEER
 3" = 1'-0"



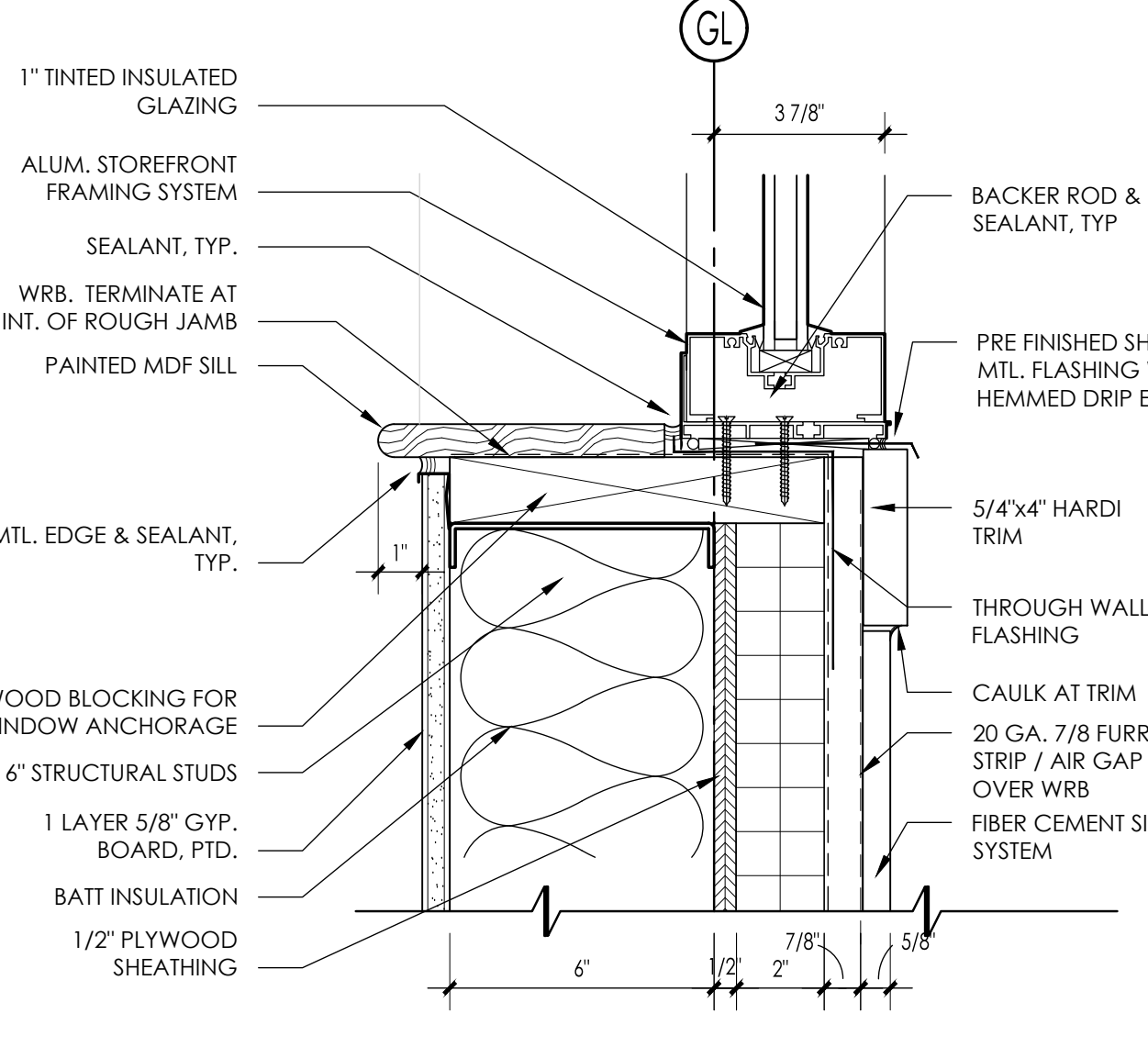
6 ALUM. WINDOW HEAD @ SIDING
 3" = 1'-0"



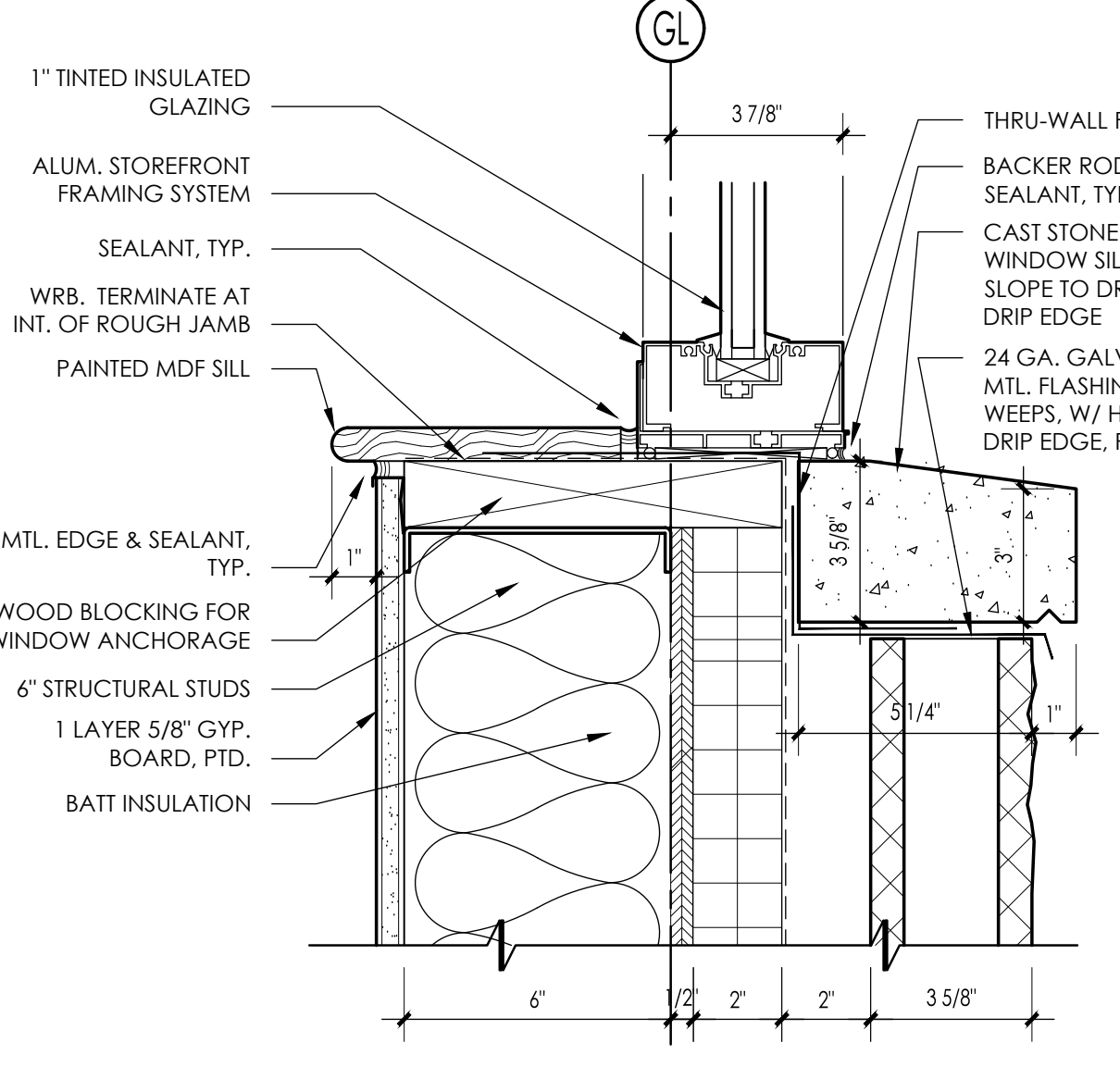
3 ALUM. WINDOW HEAD @ CMU VENEER
 3" = 1'-0"



9 ALUM. WINDOW JAMB @ SIDING
 3" = 1'-0"



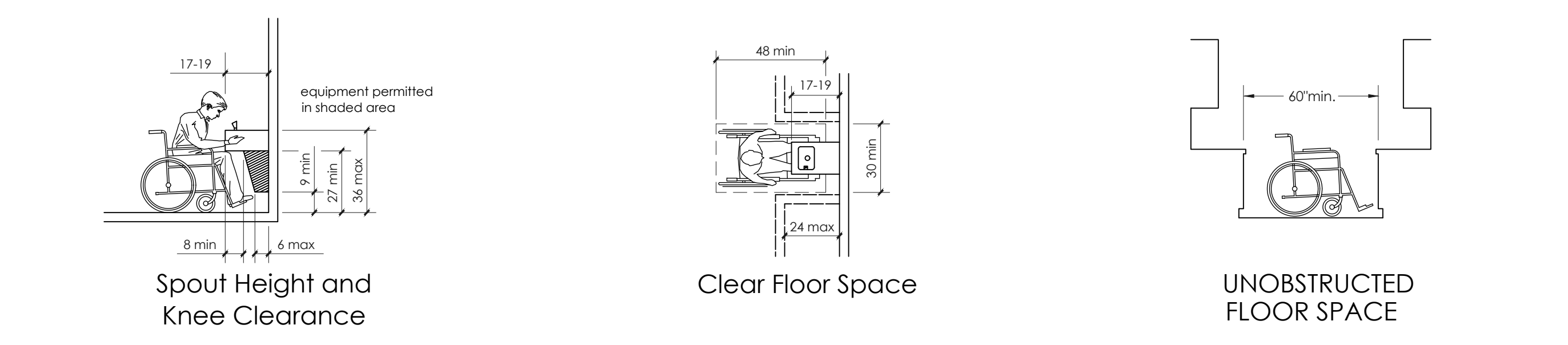
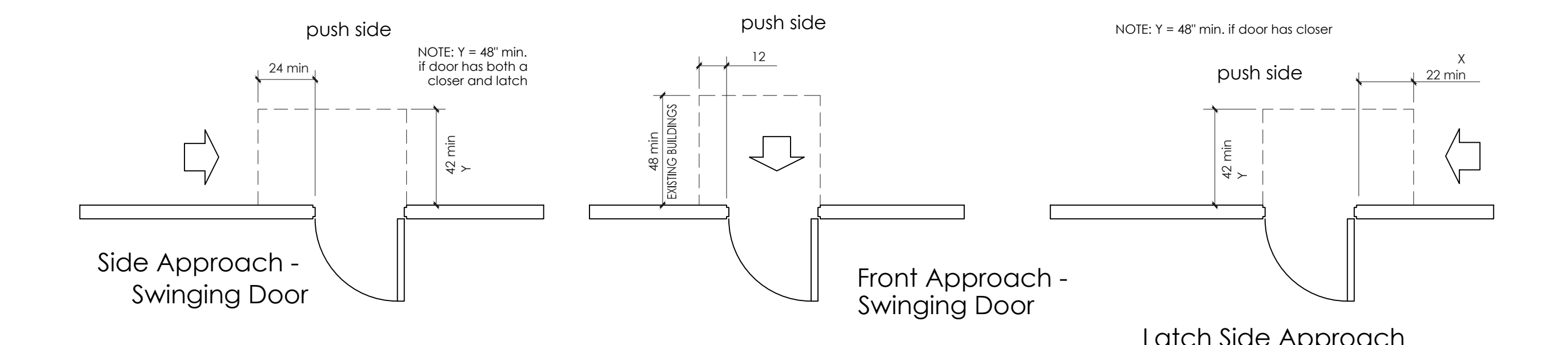
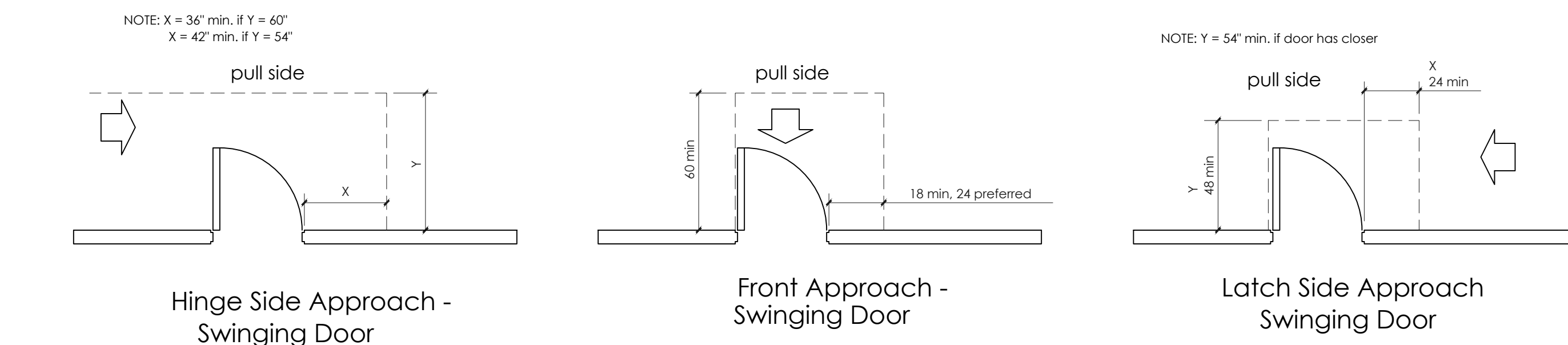
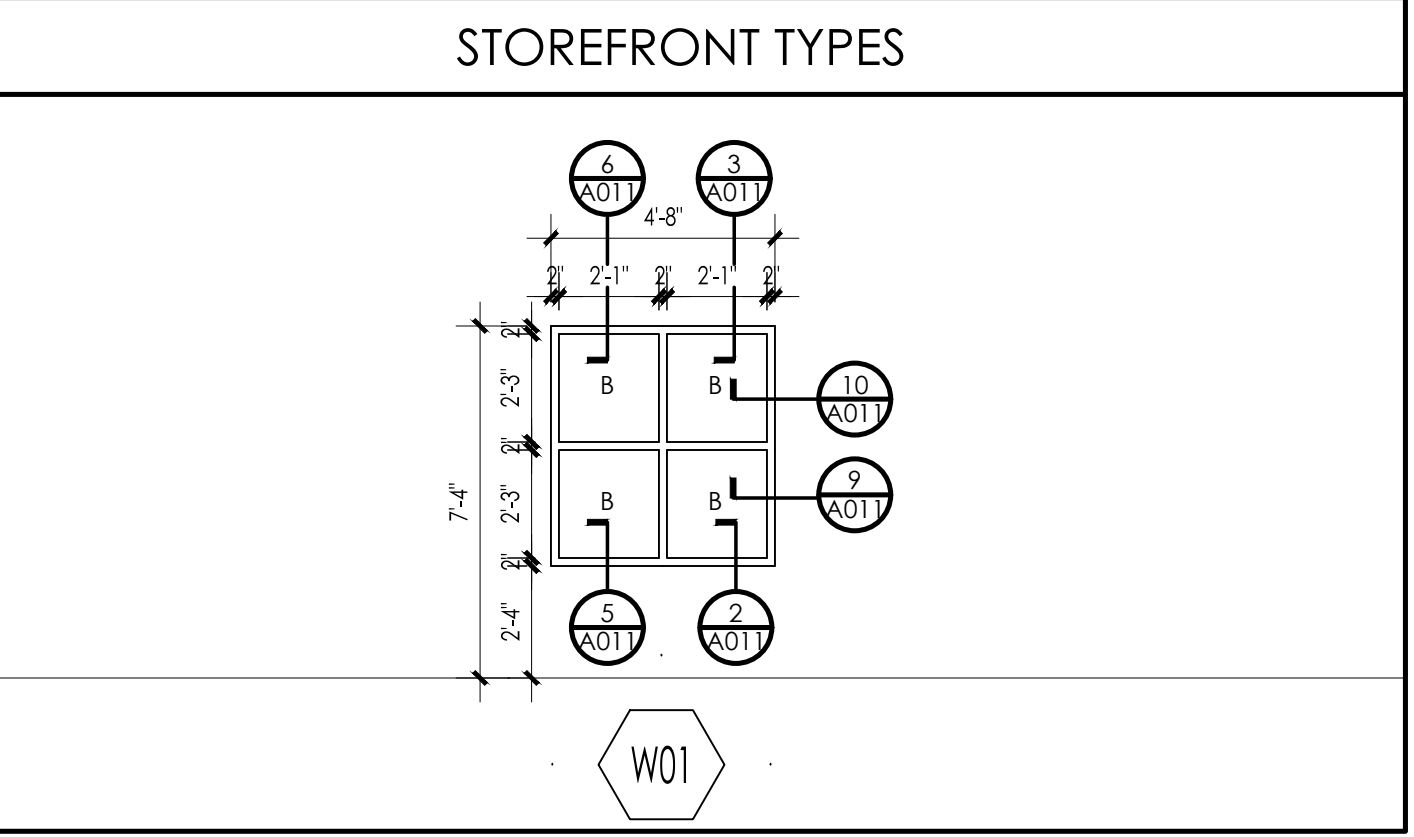
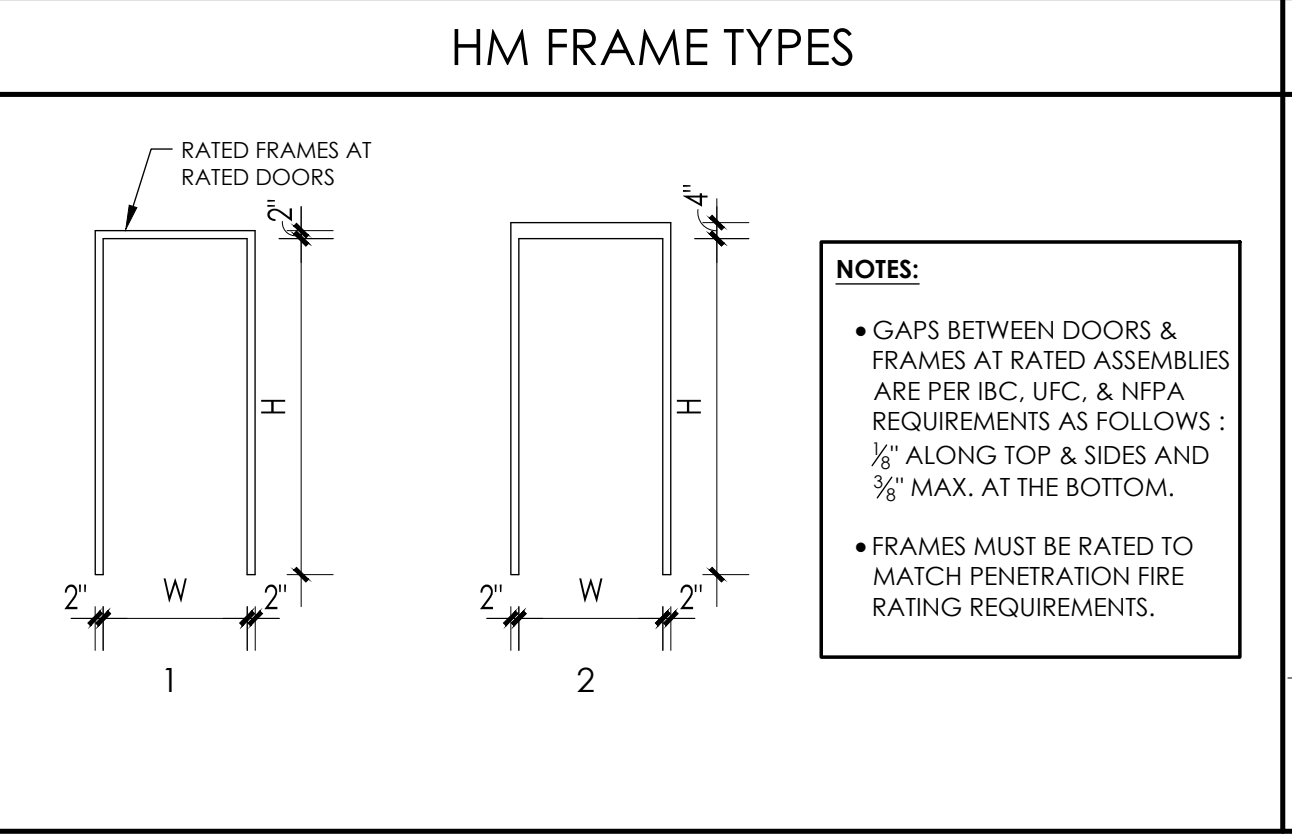
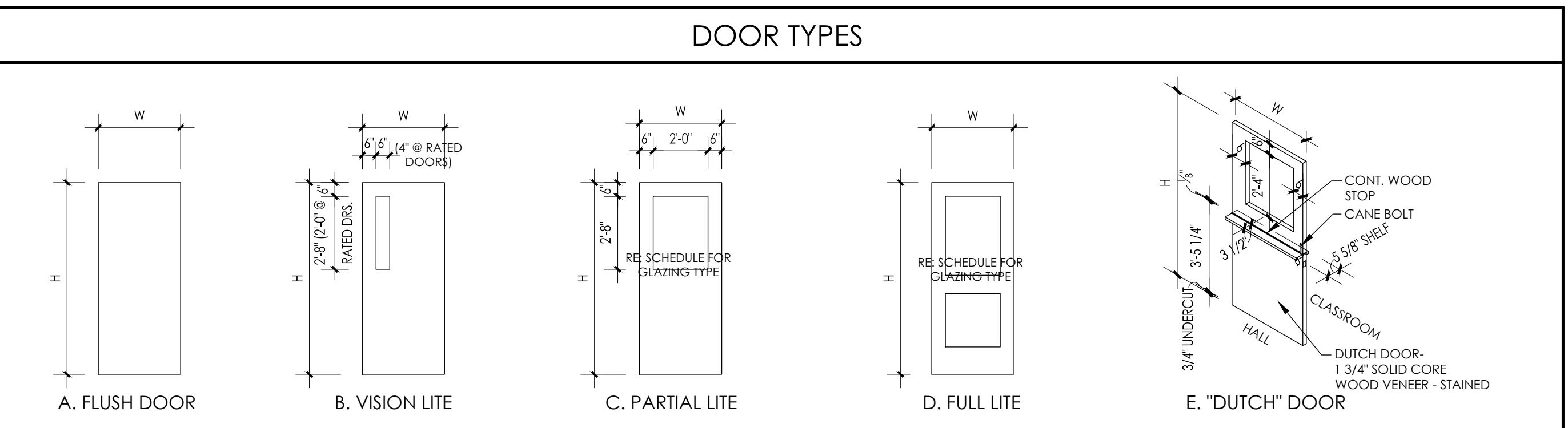
5 ALUM. WINDOW SILL @ SIDING
 3" = 1'-0"



2 ALUM. WINDOW SILL @ CMU VENEER
 3" = 1'-0"

DOOR AND FRAME SCHEDULE

NO	SIZE	DOOR				FRAME				DETAIL	FIRE	HW	REMARKS	
		TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	GLASS					
C125A	3'-0" x 7'-0" x 1 3/4"	A	HM	PD	-	2	HM	PD	-	-	-	02	1	
C125B	PR 3'-0" x 7'-0" x 1 3/4"	C	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	101	1.5
C126	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	107	2.3,6
C127	PR 3'-0" x 8'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	102	6
C128	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	105	-
C129	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	105	-
C130	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	106	6
C131	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	106	6
C133	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	104	-
C134	PR 3'-0" x 7'-0" x 1 3/4"	C	HM	PD	B	2	HM	PD	-	-	8/A011	-	01	1.5
C135A	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	104	-
C135B	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	108	-
C136A	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	104	-
C136B	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	107	2.3,6
C136C	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	108	-
C138A	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	104	-
C138B	3'-0" x 7'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	107	2.3,6
C138C	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	108	-
C139	3'-0" x 7'-0" x 1 3/4"	E	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	104	-
C140A	3'-0" x 7'-0" x 1 3/4"	C	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	103	1
C140B	3'-0" x 7'-0" x 1 3/4"	C	SCWD	PRE-FIN	D	1	HM	PD	-	11/A011	7/A011	-	103	1
C141	PR 3'-0" x 8'-0" x 1 3/4"	A	SCWD	PRE-FIN	-	1	HM	PD	-	11/A011	7/A011	-	102	-



1 TYPICAL ACCESSIBILITY CLEARANCES
 1/4" = 1'-0"



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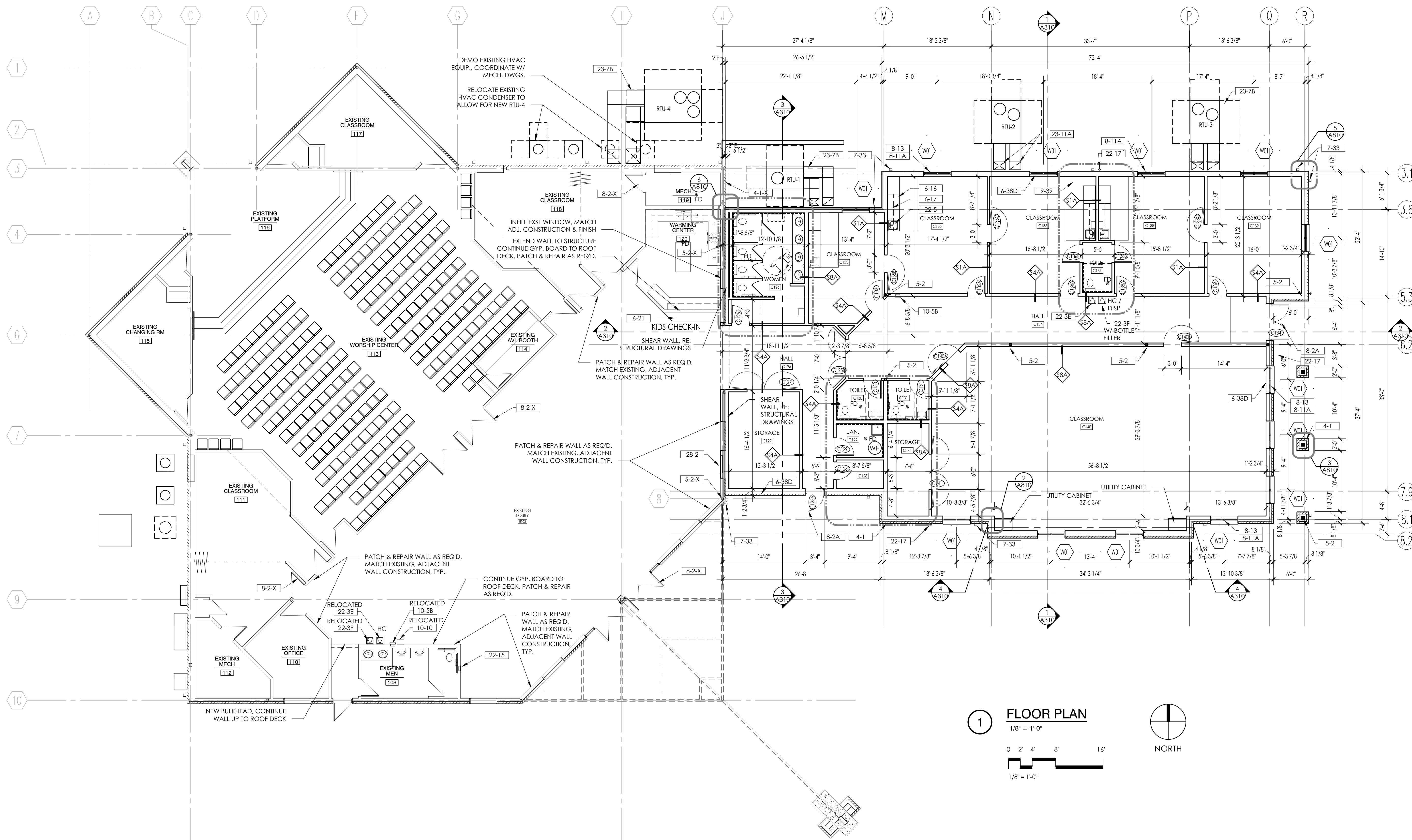
Revisions / Submittals:
 No. Date Description
 1 11/18/2024 Permit Issue Set

Date 11/18/2024

Drawn by Checked by
 KC KC

Title
 DOOR & FRAME SCHEDULE

A011



1 FLOOR PLAN
1/8" = 1'-0"
0 2 4 8 16
1/8" = 1'-0"

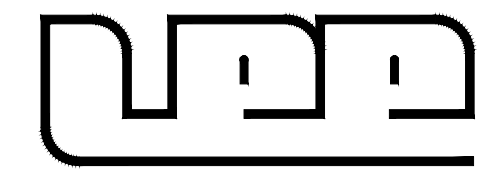


DRAWING NOTES

- 1-2 REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE LAYOUT AND NOTES.
- 1-5 CONSULT GOVERNING AUTHORITIES FOR SPECIFIC REQUIREMENTS REGARDING GOVERNING CODES, RULES REGULATIONS AND STANDARDS.
- 1-7 REFER TO CIVIL DRAWINGS FOR GRADING AND EROSION CONTROL.
- 1-11 DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP. BD., MASONRY OR CONCRETE UNO., AT EXTERIOR WALL STUDS. DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES:
- 1-12 REFER TO DRAWING A010 FOR PARTITION TYPES & NOTES
- 1-14 REFER TO DRAWING A800 FOR PENETRATION DETAILS THRU FIRE RATED PARTITIONS.
- 1-15 ALL GYP. BD. TO BE TYPE X U.G.I.N.
- 1-16 ALL DOOR R.O. TO BE 4" FROM PERPENDICULAR WALL U.O.N.
- 1-17 PROVIDE MIN. R-13 SOUND BATT INSULATION IN ALL WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHANICAL OR ELECTRICAL ROOMS.
- 1-18 PROVIDE SEALANT AT ALL DISSIMILAR MATERIALS.
- 1-19 ALL GYPSUM BOARD TO BE INSTALLED PER MFR RECOMMENDATIONS. SHALL BE TAPED, BEDDED, FINISHED TO LEVEL 5 STANDARD, AND PAINTED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALLS.
- 1-20 REFER TO DRAWING A011 FOR DOOR SCHEDULE AND DOOR TYPES.
- 1-21 REFER TO DRAWING A900 FOR ROOM FINISH PLANS AND FINISH SCHEDULE.
- 1-22 ELECTRICAL BOXES SHALL NOT BE MOUNTED BACK TO BACK. BOXES SHALL BE SEALED TO GYP. BD. WITH RESILIENT CAULK.
- 1-24 METAL STUD GAUGES AT 24" O.C. AS FOLLOWS:
25 GA: 12'-9" MAX. HGT.
22 GA: 14'-0" MAX. HGT.
20 GA: 15'-0" MAX. HGT.
(NOTE: GAUGES ARE BASED ON 24" O.C., CHANGE SPACING TO 16" O.C. OR PROVIDE STRUCTURAL GAUGE STUDS AS REQ'D. WHERE INDICATED GAUGE AND HEIGHT LIMITS EXCEED MFR. RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.)
- 1-25 MAXIMUM HEIGHT OF METAL STUDS BASED ON A MAXIMUM DEFLECTION OF L/120.
- 1-27 SET FLOOR TRACK ON CONTINUOUS BEADS OF ACCURATE SEALANT ON BOTH SIDES.
- 1-28 PROVIDE MIN. R-13 PLENUM RATED SOUND BATT INSULATION ABOVE CEILING OR ABOVE ALL 'SOUND ISOLATED' (SEE NOTE 1-17) ROOMS FOR A DISTANCE OF 6" EA. SIDE OF WALL - UNLESS ALL PERIMETER DEMISING WALLS ARE CONTINUOUS TO STRUCTURE ABOVE.
- 1-29 PROVIDE FIRE RETARDANT WD. BLOCKING IN PARTITIONS AS REQ'D BY CASEWORK AND MARKER BOARDS, ETC., COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED BY OWNER THAT MAY REQ. BLOCKING.
- 1-30 ALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING AND/OR PAINTING.
- 1-31 REFER TO SLIP JOINTS DETAILS FOR PARTITION DEFLECTION CONDITIONS @ FLOOR AND STRUCTURE ABOVE.
- 2-27 EXISTING ROOF HATCH AND LADDER TO REMAIN.
- 4-1 CONCRETE MASONRY UNITS - RE: WALL TYPES AND WALL SECTIONS FOR SIZE U.O.N. & ELEVATIONS FOR FACE TEXTURE AND COLOR.
- 4-1-X CONCRETE MASONRY UNITS (EXISTING)
- 5-2 STEEL COLUMN
- 5-2-X STEEL COLUMN (EXISTING)
- 6-16 PLAM BASE CABINET
- 6-17 PLAM WALL CABINET
- 6-21 PLAM COUNTER TOP WITH SPLASH
- 6-38D PAINTED MDF SILL
- 7-33 24 GA. PREFINISHED MET. GUTTER
- 8-24 EXTERIOR HOLLOW METAL DOOR AND FRAME
- 8-2-X EXISTING DOOR TO REMAIN
- 8-11A ALUM. STOREFRONT WINDOW
- 8-13 1" TINTED INSULATING GLASS
- 9-39 VINYL COMPOSITION TILE
- 10-5B SEMI RECESSED FIRE EXTINGUISHER & CABINET
- 10-10 AED & SEMI RECESSED AED CABINET
- 22-3E SURFACE MOUNTED DRINKING FOUNTAIN
- 22-3F SURFACE MOUNTED EWC ADA COMPLIANT
- 22-5 SINK
- 22-15 WATER HOOK UP FOR OWNER PROVIDED COFFEE MAKER
- 22-17 FREEZELESS WALL HYDRANT
- 23-7B GROUND MOUNTED HVAC UNIT
- 23-11A INSULATED METAL MECH. DUCT
- 27-3 PLYWD PATCH PANEL BOARD
- 28-2 FIRE ALARM ANNUNCIATOR PANEL



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Job No: 24010

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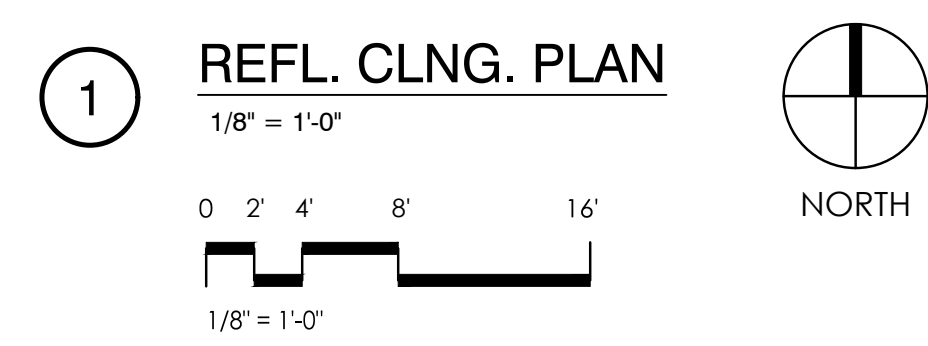
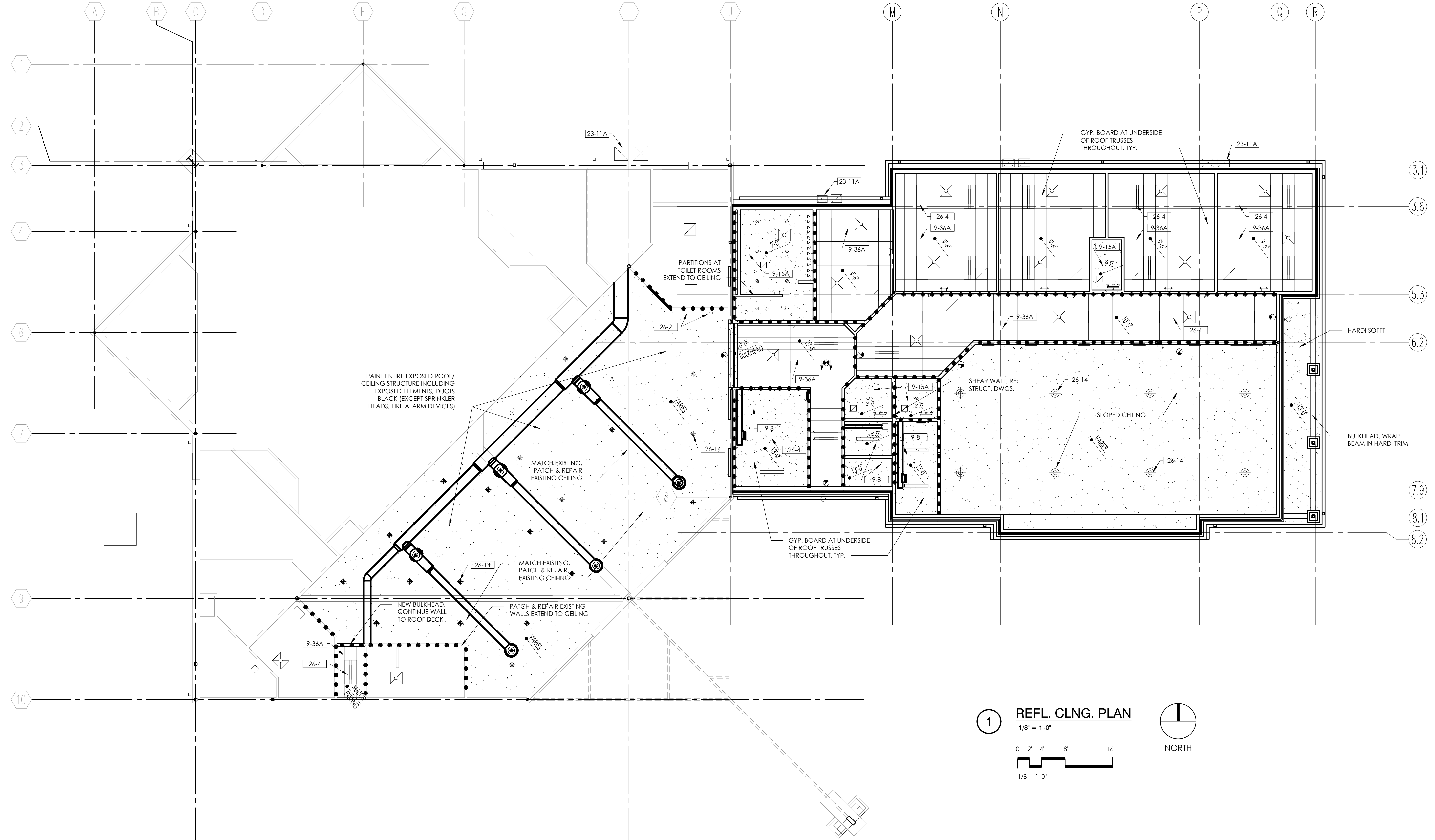
Date 11/18/2024

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KC KC

Title

FLOOR PLAN

A100



CEILING LEGEND			
	WALL MOUNTED FIXTURE		PENDANT FIXTURE
	RECESS MOUNTED DOWNLIGHT		STRIP FIXTURE
	RECESS MOUNTED 2' X 4'		TRACK LIGHT
	RECESS MOUNTED 2' X 2'		CEILING MOUNTED EXIT SIGN
	RECESS MOUNTED 1' X 4'		WALL MOUNTED EXIT SIGN
	SUPPLY AIR DIFFUSER		RETURN AIR GRILLE
	SMOKE BARRIER		SMOKE DETECTOR
	RETURN AIR GRILLE		HEAT DETECTOR
	GYPSUM BOARD CEILING		PROJECTOR
	SMOKE BARRIER		ELEVATION MARK
	1 HOUR PARTITION		CHANGE IN ELEVATION
	SMOKE BARRIER		ACCESS DOOR

NOTES	
1	CEILING HEIGHTS 9'-4" U.O.N. HEIGHTS LABELED ARE ABOVE FINISH FLOOR U.O.N.
2	ALL ACoustical CEILING TILE ACT-1 U.N.O. REFER TO FINISH SCHEDULE AND PLANS
3	EXPOSED STRUCTURE TO BE CLEANED AND PAINTED U.N.O. REFER TO FINISH SCHEDULE AND PLANS
4	FIRE SPRINKLER SYSTEM TO BE INSTALLED THROUGHOUT ENTIRE BUILDING & ROOF OVERHANGS. PIPING SHALL BE CONCEALED WITHIN WALLS AND CEILING PLENUMS TO THE MAXIMUM EXTENT POSSIBLE. EXPOSED PIPING SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
5	LOCATE ALL CEILING TILE GRID SYSTEM IN THE CENTER OF EACH ROOM AS INDICATED ON CEILING PLANS U.N.O.
6	COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS ON LOCATIONS OF CEILING FIXTURES PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.
7	ALL GYPSUM BOARD CEILINGS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, LEVEL 4 FINISH AND PAINTED. PROVIDE FIRE RATED TAPE AT FIRE RATED CEILINGS, PROVIDE WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS, WARMING CENTER AND BAPTISTERY FILL STATION.
8	ALL ELECTRICAL OR MECHANICAL FIXTURES LOCATED IN ONE HOUR CEILING ASSEMBLIES REQUIRE A ONE HOUR RATING. COORDINATE WITH M.E.P. DRAWINGS.
9	PROVIDE VENTILATION FOR ENCLOSED EXTERIOR BULKHEADS AND SOFFITS IN ACCORDANCE WITH 2018 IBC, SECTION 1202.2.1
10	ALL ROOMS WITH AIR RETURN CEILING GRILLES SHALL INCORPORATE 90 DEGREE FIBERGLASS INSULATED ELBOWS ABOVE CEILING TO MINIMIZE ROOM-TO-ROOM SOUND TRANSMISSION DUE TO PLENUM AIR SPACE.
11	PROVIDE BLACK DIFFUSERS AND RETURN AIR GRILLES AT LOCATIONS WHERE CEILING/ EXPOSED STRUCTURE IS BLACK.

NOTE: ALL CONTRACTORS SHALL BE CAUTIONED THAT THERE ARE EXTENSIVE AUDIO VISUAL SYSTEMS AND THEATRICAL LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT. CARE MUST BE TAKEN TO MINIMIZE ANY INTERACTION BETWEEN THE AV SYSTEMS AND W & E SYSTEMS THROUGH CONDUIT OR BY OTHER MEANS

NOTE: DUCTS AND DIFFUSERS MUST BE MOUNTED HIGHER THAN LIGHT FIXTURES
RE: AV AND STRUCTURAL DRAWINGS FOR EQUIPMENT LOCATIONS, HANGING REQUIREMENTS AND ACOUSTIC TREATMENT REQUIREMENTS

DRAWING NOTES

- 1-11 DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP. BD., MASONRY OR CONCRETE UNCD. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES.
- 1-17 PROVIDE MIN. R-13 SOUND BATT INSULATION IN ALL WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHANICAL OR ELECTRICAL ROOMS
- 1-28 PROVIDE MIN. R-13 PLENUM RATED SOUND BATT INSULATION ABOVE CEILING OR ABOVE ALL "SOUND ISOLATED" (SEE NOTE 1-17) ROOMS FOR A DISTANCE OF 6" EA. SIDE OF WALL - UNLESS ALL PERIMETER DEMISING WALLS ARE CONTINUOUS TO STRUCTURE ABOVE.
- 1-40 CEILING NOTES:
- 1-41 CEILINGS @ 9'-4" ABOVE FINISH FLOOR U.O.N. TYPICAL.
- 1-42 PROVIDE AND INSTALL ACCESS PANELS AT OR NEAR SUPPLY AIR DIFFUSERS LOCATED IN GYP. BD. CEILING AS REQ'D FOR BALANCING. COORDINATE WITH HVAC.
- 1-43 LOCATE ALL CEILING TILE GRID SYSTEM IN THE CENTER OF EACH ROOM AS INDICATED ON CEILING PLANS UNLESS NOTED OTHERWISE.
- 1-44 COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS ON LOCATIONS OF CEILING FIXTURES PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.
- 1-45 ALL GYPSUM BOARD CEILINGS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, PRIMED TEXTURED WITH LEVEL 4 FINISH AND PAINTED. PROVIDE FIRE RATED TAPE AT FIRE RATED CEILINGS, PROVIDE WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS, KITCHEN AND LOCKER ROOMS.
- 1-46 ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR U.O.N.
- 9-8 1 LAYER 5/8" GYP. BD.
- 9-15A SUSPENDED GYP. BD. CEILING SYSTEM
- 9-36A SUSPENDED 2X4 A.C.T. SYSTEM
- 23-11A INSULATED METAL MECH. DUCT
- 26-2 WALL MOUNTED DEVICE RE: ELEC.
- 26-4 LIGHT FIXTURE, TYP. REFER TO ELECTRICAL SCHEDULE.
- 26-14 PENDANT LIGHT, RE: ELEC LIGHT SCHEDULE



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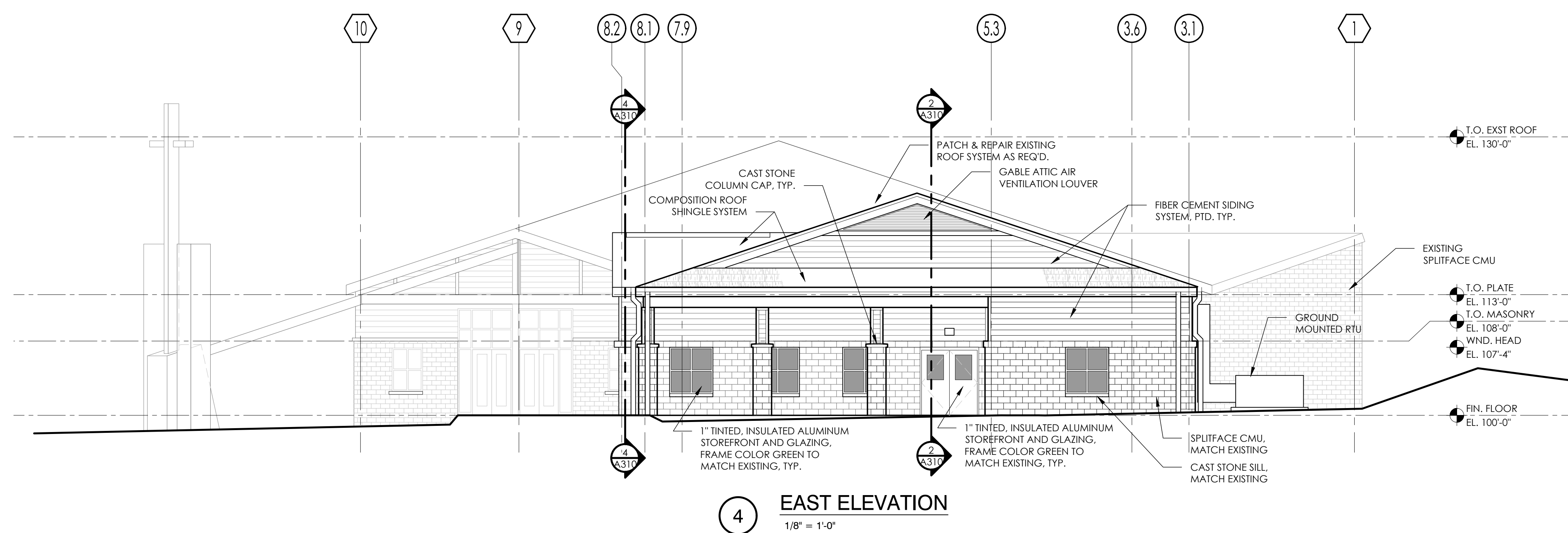
Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date: 11/18/2024

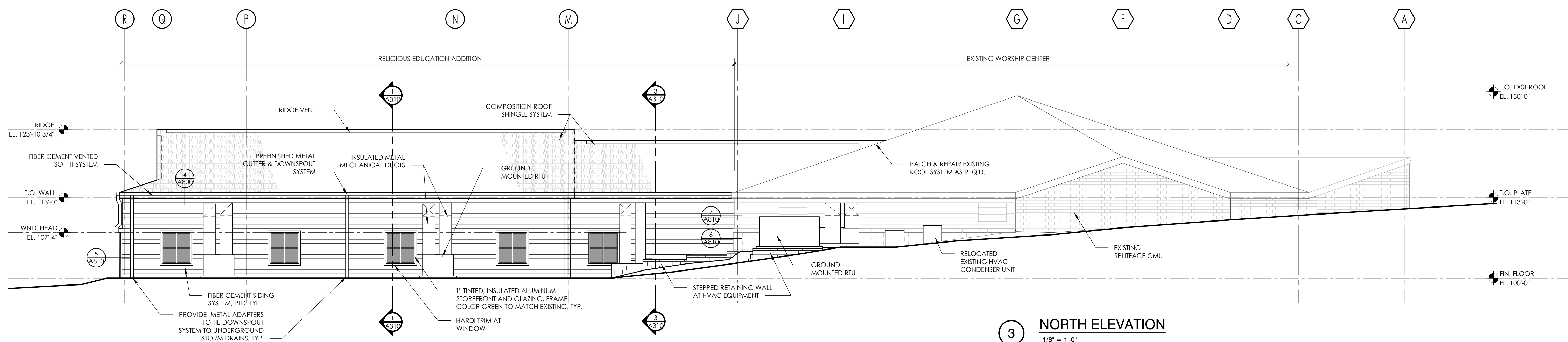
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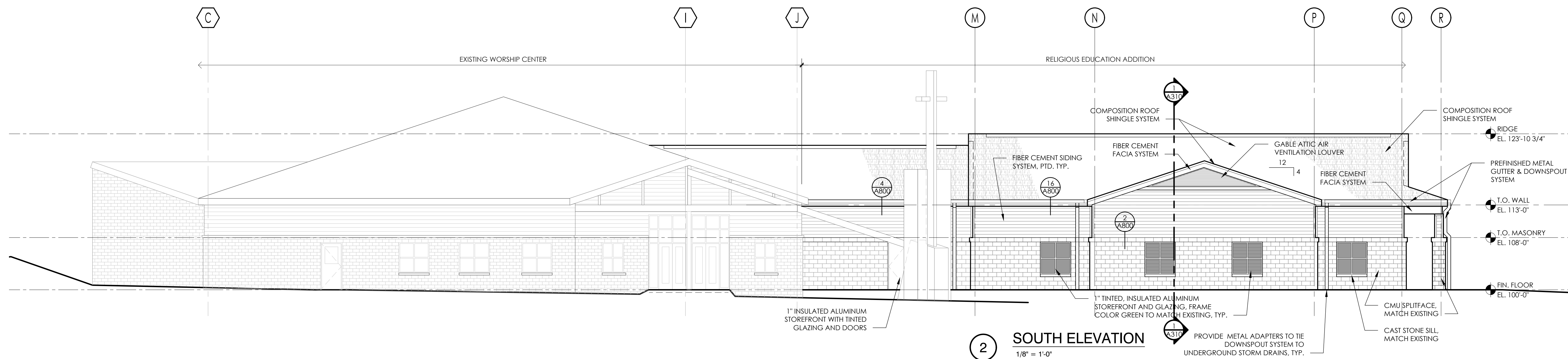
A200



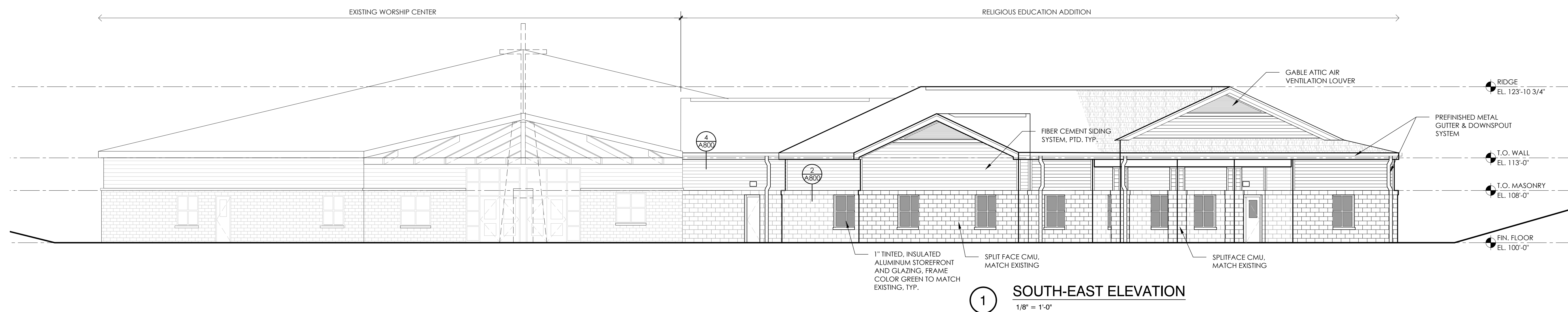
4 EAST ELEVATION
1/8" = 1'-0"



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



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



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

DRAWING NOTES

- 1-2 REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE LAYOUT AND NOTES.
- 1-4 REFER TO CIVIL FOR SITE SURVEY INFORMATION.
- 1-7 REFER TO CIVIL DRAWINGS FOR GRADING AND EROSION CONTROL.
- 1-9 COORDINATE WITH CIVIL DRAWINGS ON ALL SITE INFORMATION.
- 1-11 DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP. BD., MASONRY OR CONCRETE UNO. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES.
- 1-20 REFER TO DRAWING A011 FOR DOOR SCHEDULE AND DOOR TYPES.
- 1-61 ALUMINUM WINDOW FRAMING SYSTEM BASED ON KAWNEER TRIFAB II 451 SYSTEM.
- 1-63 PROVIDE FITTINGS AND ACCESSORIES FOR A COMPLETE FUNCTIONAL & WATER-TIGHT FRAME INSTALLATION.
- 1-64 PROVIDE MATCHING ALUMINUM BREAK METAL CLOSURES AND FLASHING WHERE DETAILED AND REQUIRED.
- 1-66 REFER TO SPECIFICATIONS FOR GLAZING DESCRIPTIONS & SEALANT/ GASKETING REQUIREMENTS.



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KC KC

Title

EXTERIOR ELEVATIONS

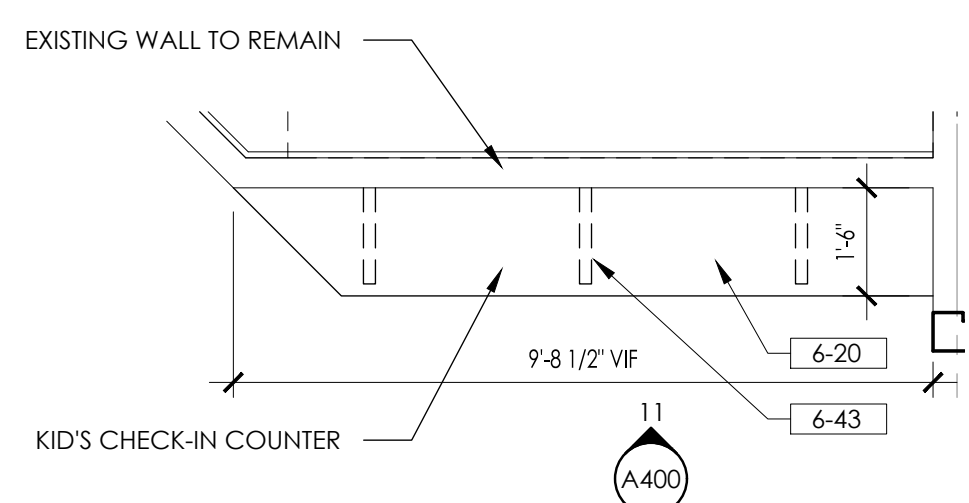
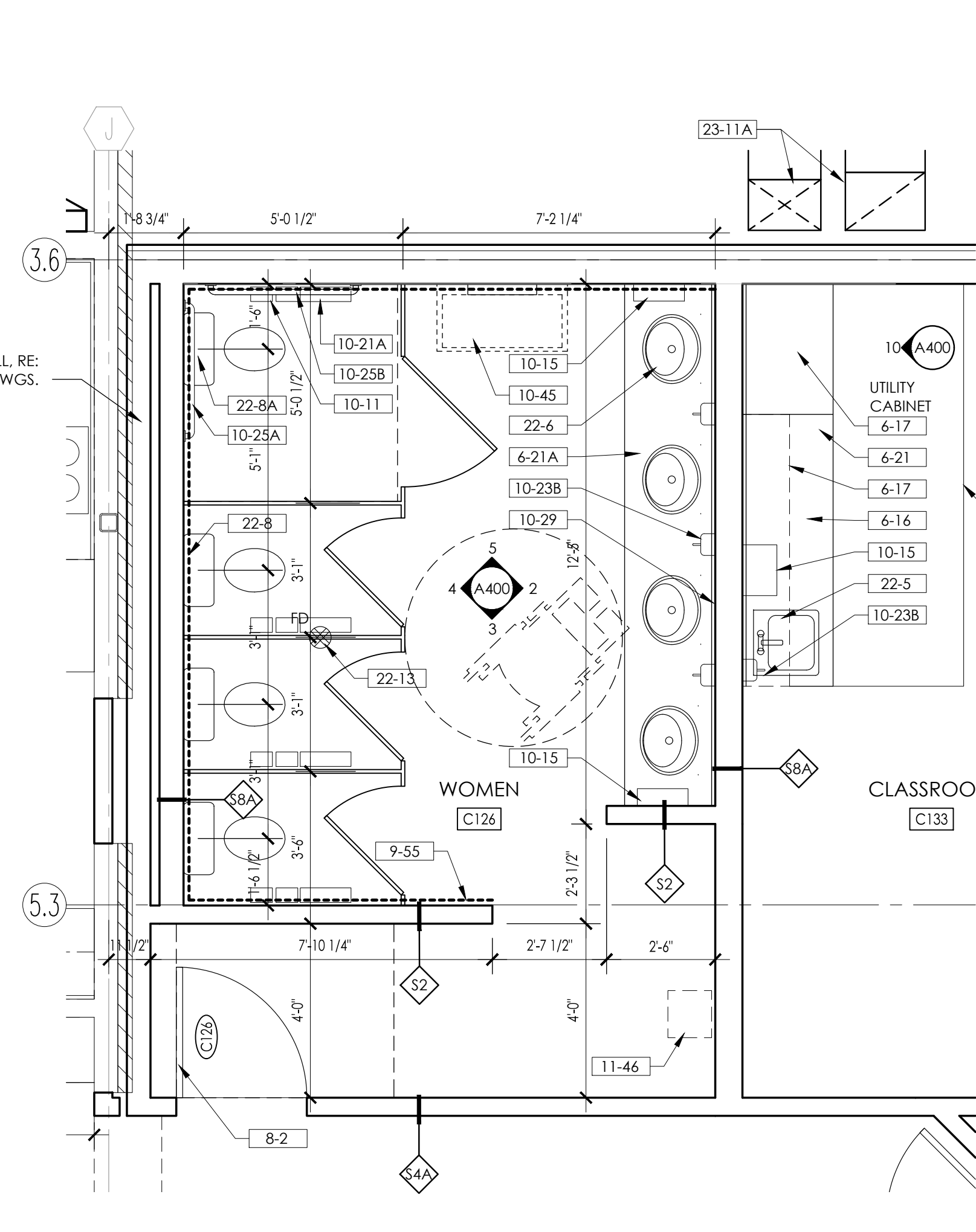
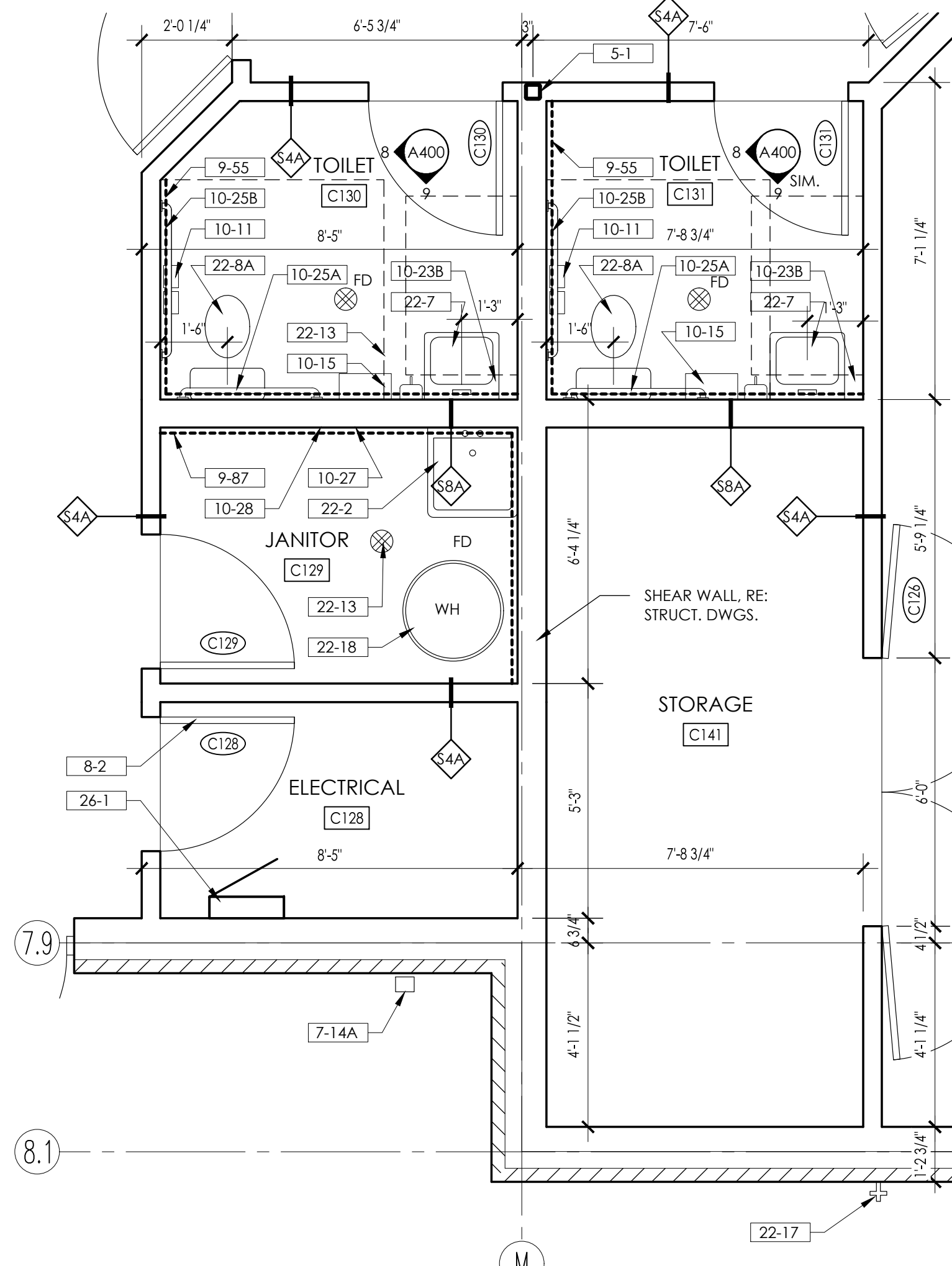
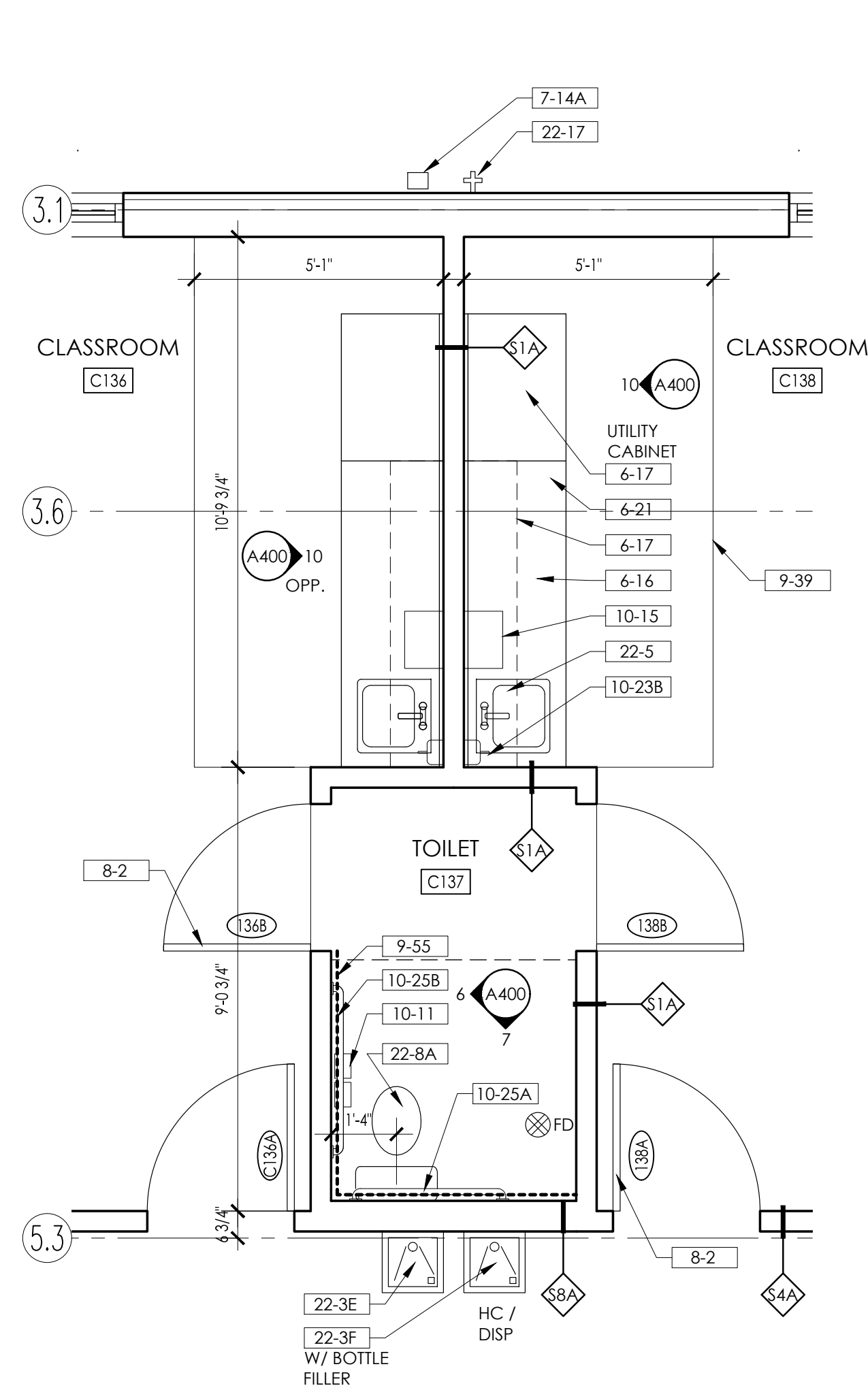
A300

EXTERIOR BUILDING FINISHES

	SPLIT FACE CMU: MATCH EXISTING ANCHOR BLOCK CO. - SANTA FE #506
	HORIZONTAL SIDING: JAMES HARDI ATRISAN SIDING, BEVEL CHANNEL, 7" EXPOSURE. PAINTED - COLOR TO MATCH EXISTING
	COMPOSITION ROOF SHINGLE SYSTEM: MATCH EXISTING OWENS CORNING, DURATION, CHATEAU GREEN

FINISH NOTES:

- CAST STONE SILL: COLOR TO MATCH EXISTING
- HM DOORS, FRAMES AND FLASHING: PAINTED TO MATCH EXISTING
- METAL GUTTER & DOWNSPOUT SYSTEM: PAINTED TO MATCH EXISTING
- HARDI FACIA & TRIM: PAINTED COLOR TO MATCH EXISTING

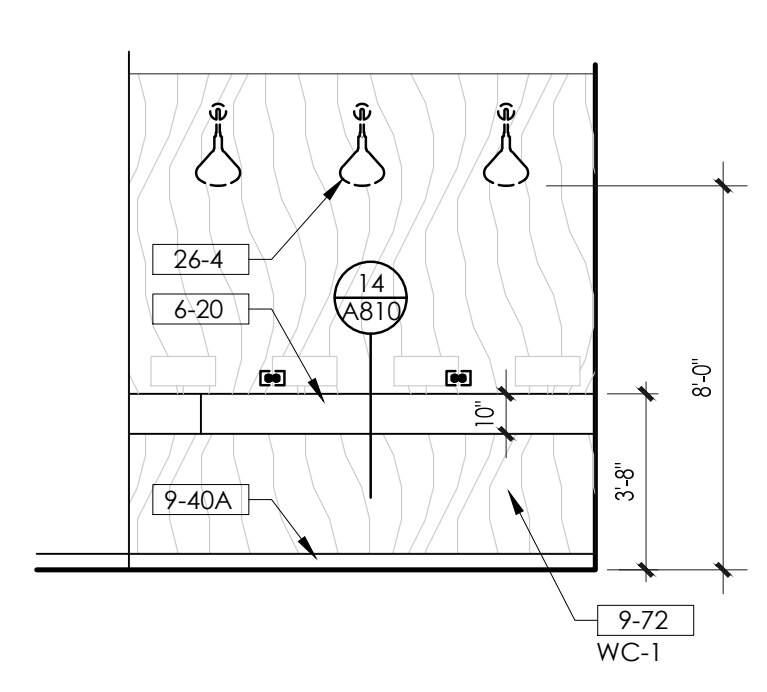


15 KID'S CHECK-IN
 3/8" = 1'-0"

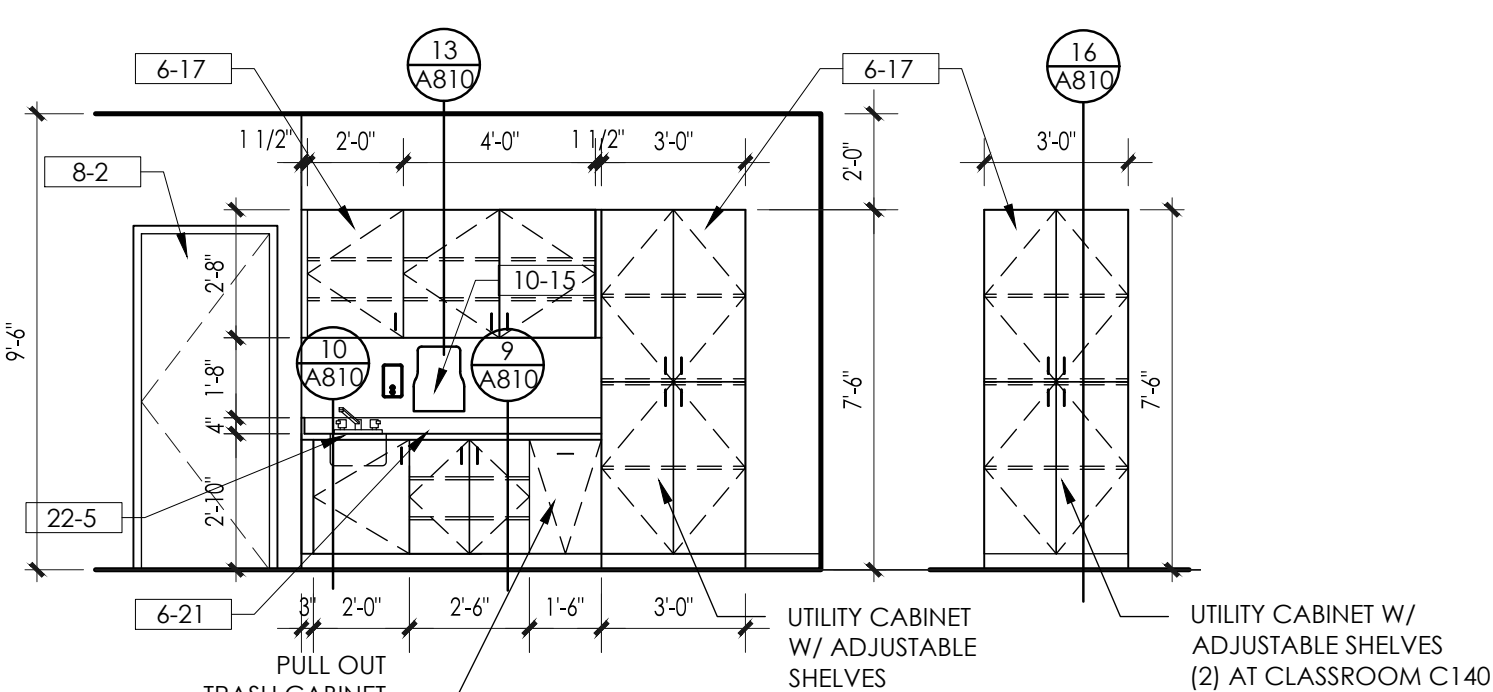
14 CHILDREN'S TOILET C137
 3/8" = 1'-0"

13 TOILET RM C130 & C131
 3/8" = 1'-0"

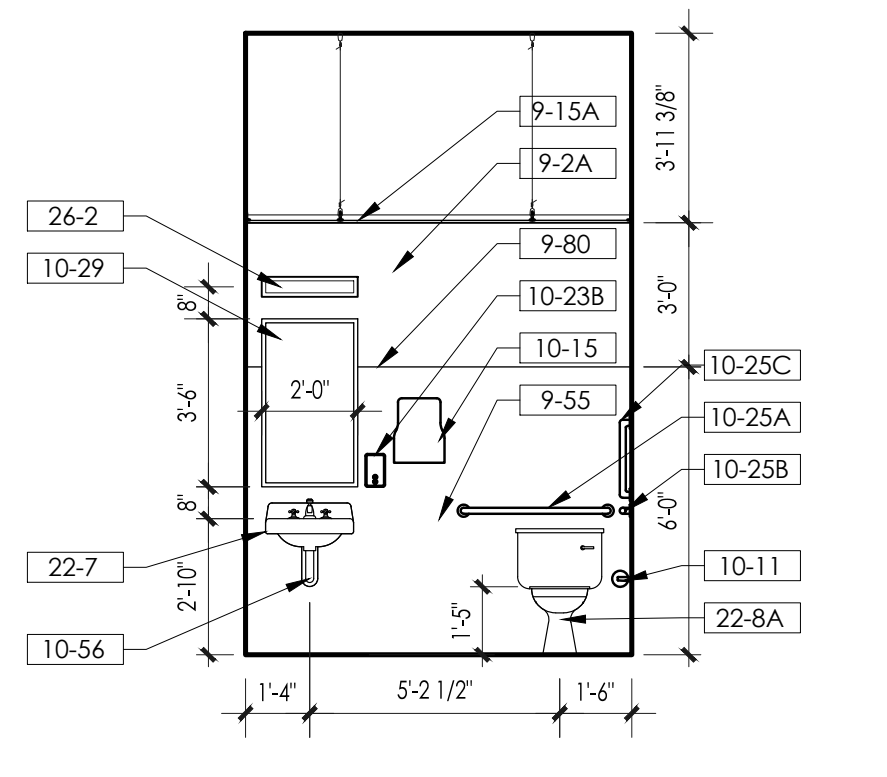
12 WOMEN C126
 3/8" = 1'-0"



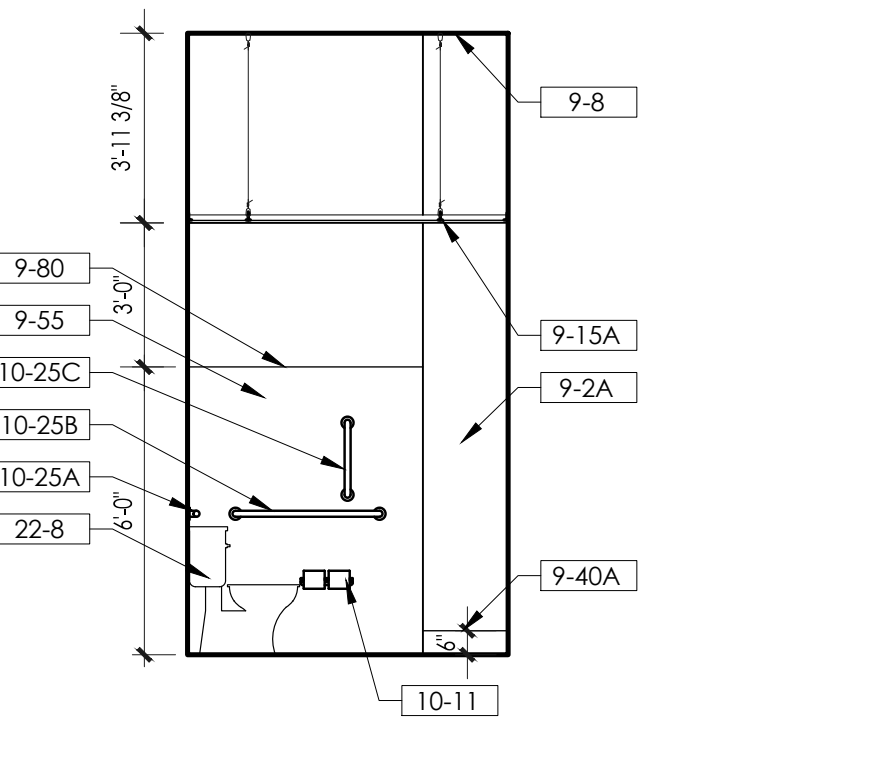
11 KIDS CHECK-IN
 1/4" = 1'-0"



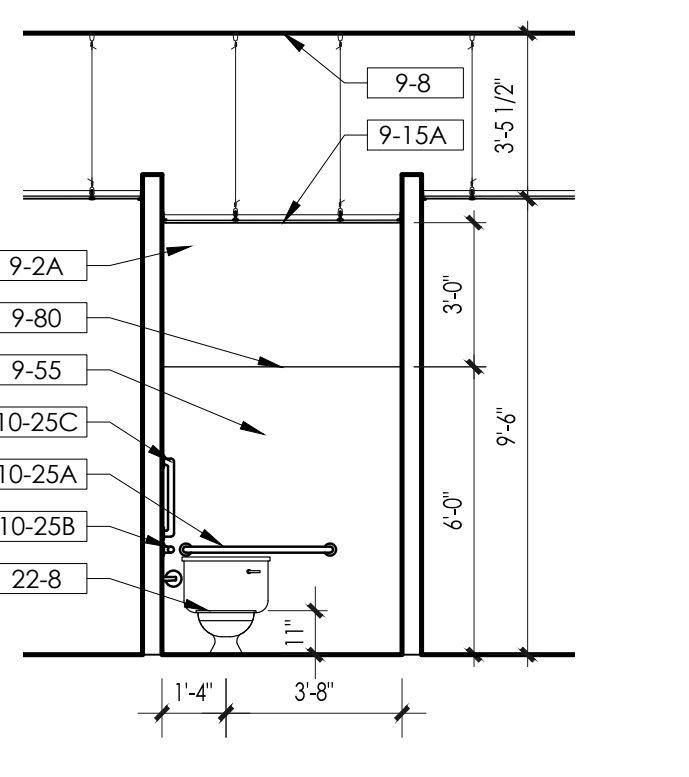
10 CLASSROOMS CASEWORK
 1/4" = 1'-0"



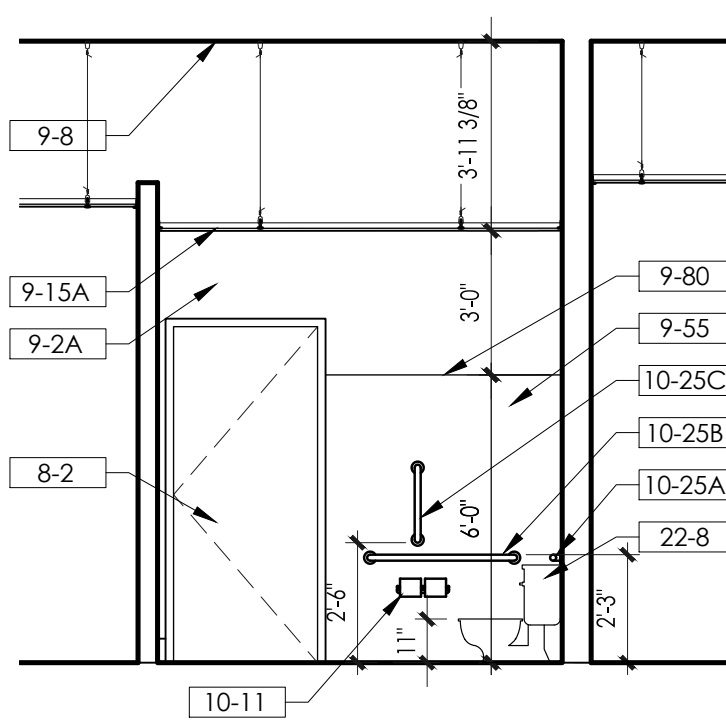
9 TOILET C130
 1/4" = 1'-0" C131 SIM.



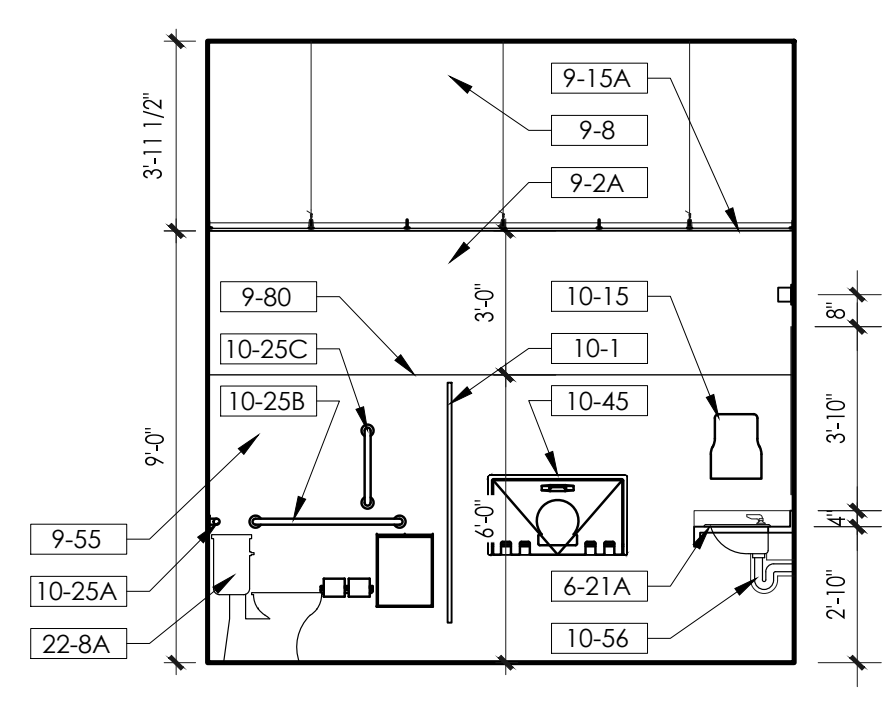
8 TOILET C130
 1/4" = 1'-0" C131 SIM.



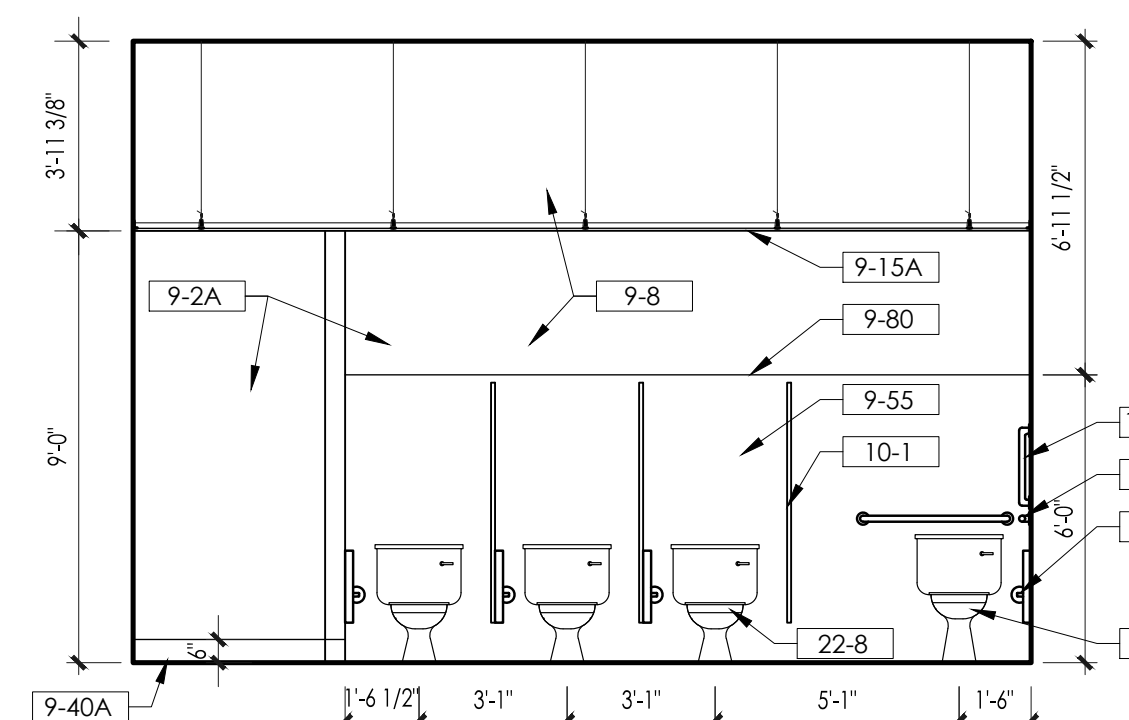
7 CHILDRENS TOILET C137
 1/4" = 1'-0"



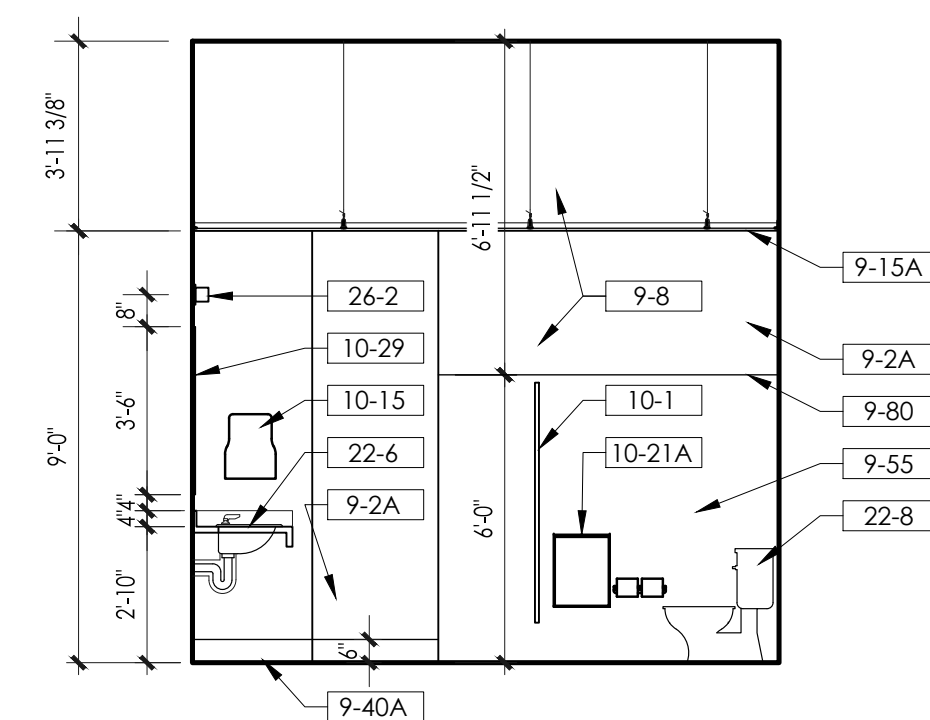
6 CHILDRENS TOILET C137
 1/4" = 1'-0"



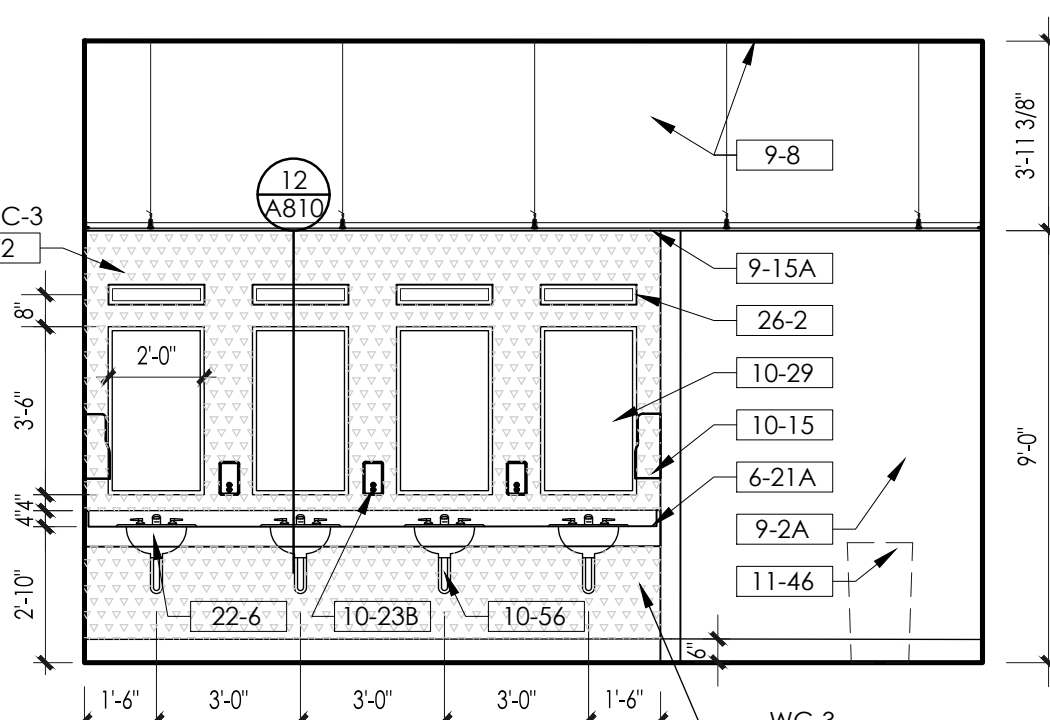
5 WOMEN C121 04
 1/4" = 1'-0"



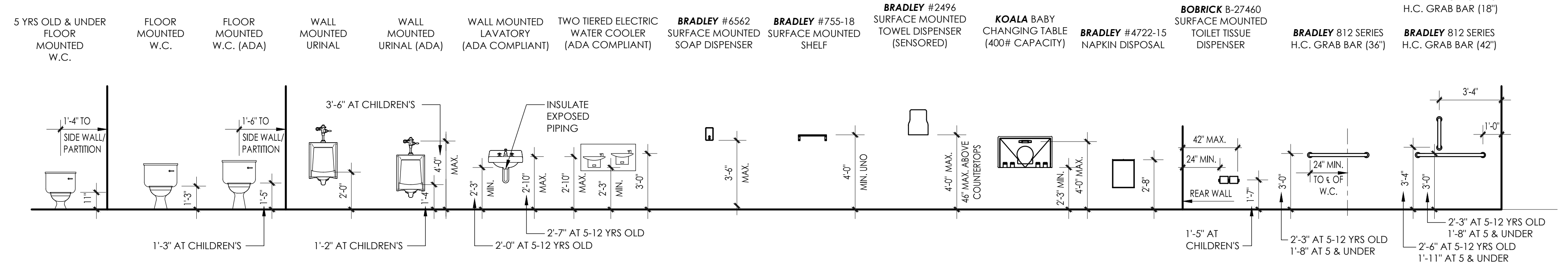
4 WOMEN C121 03
 1/4" = 1'-0"



3 WOMEN C121 02
 1/4" = 1'-0"



2 WOMEN C121 01
 1/4" = 1'-0"



1 TYPICAL FIXTURE MOUNTING HEIGHTS
 1/4" = 1'-0"

DRAWING NOTES

- 1-11 DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP BD, MASONRY OR CONCRETE UNLESS NOTED OTHERWISE. DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES.
- 1-12 REFER TO DRAWING A010 FOR PARTITION TYPES & NOTES
- 1-15 ALL GYP BD TO BE TYPE X U.O.N.
- 1-16 ALL DOOR R.O. TO BE 4" FROM PERPENDICULAR WALL U.O.N.
- 1-17 PROVIDE MIN. R-13 SOUND BATT INSULATION IN ALL WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHANICAL OR ELECTRICAL ROOMS.
- 1-18 ALL GYPSUM BOARD TO BE INSTALLED PER MFR RECOMMENDATIONS. SHALL BE TAPED, BEDDED, FINISHED TO LEVEL 5 STANDARD, AND PAINTED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS.
- 1-19 PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALLS.
- 1-20 REFER TO DRAWING A011 FOR DOOR SCHEDULE AND DOOR TYPES.
- 1-21 REFER TO DRAWING A900 FOR ROOM FINISH PLANS AND FINISH SCHEDULE.
- 1-24 METAL STUD GAUGES AT 24" O.C. AS FOLLOWS:
 25 GA: 12'-0" MAX. HGT.
 22 GA: 14'-0" MAX. HGT.
 20 GA: 15'-0" MAX. HGT.
 (NOTE: GAUGES ARE BASED ON 24" O.C. CHANGE SPACINGS TO 16" O.C. OR PROVIDE STRUCTURAL GAUGE STUDS AS REQ'D. WHERE INDICATED GAUGE AND HEIGHT LIMITS EXCEED MFR. RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.)
- 1-25 MAXIMUM HEIGHT OF METAL STUDS BASED ON A MAXIMUM DEFLECTION OF L/120.
- 1-29 PROVIDE FIRE RETARDANT WD. BLOCKING IN PARTITIONS AS REQ'D BY CASEWORK AND MARKER BOARDS, ETC.. COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED BY OWNER THAT MAY REQ. BLOCKING.
- 5-1 STEEL BEAM
- 6-16 PLAM BASE CABINET
- 6-17 PLAM WALL CABINET
- 6-20 PLAM COUNTER TOP
- 6-21 PLAM COUNTER TOP WITH SPLASH
- 6-21A SOLID SURFACE / QUARTZ COMPOSITE COUNTER TOP WITH SPLASH, RE: FINISH SCHED.
- 6-43 COUNTERTOP SUPPORT BRACKET
- 7-14A 18 GA. METAL DOWNSPOUT - PREFINISHED
- 8-2 DOOR AS SCHEDULED
- 9-2A GYP. BD. PAINTED - RE: ROOM FINISH SCHEDULE & PLANS (RE: FLOOR PLANS FOR PARTITION TYPE)
- 9-8 1 LAYER 5/8" GYP. BD.
- 9-15A SUSPENDED GYP. BD, CEILING SYSTEM
- 9-39 VINYL COMPOSITION TILE
- 9-40A WALL BASE - RE: ROOM FINISH SCHEDULE & PLANS
- 9-55 CERAMIC TILE WAINSCOT - RE: ROOM FINISH SCHEDULE & PLANS
- 9-72 VINYL WALL COVERING
- 9-80 SCHLUTER EDGE
- 9-87 FRP WAINSCOT - RE: ROOM FINISH SCHEDULE & PLANS
- 10-1 TOILET PARTITION
- 10-11 SURF. MOUNT. TOILET PAPER DISP. (BY OWNER)
- 10-15 SURF. MOUNT. PAPER TOWEL DISP. (BY OWNER)
- 10-21A SURFACED MOUNTED FEMININE NAPKIN DISPENSER
- 10-23B SOAP DISPENSER (WALL MOUNTED - BY OWNER)
- 10-25A 36" HORIZONTAL GRAB BAR (W.C. BACK)
- 10-25B 42" HORIZONTAL GRAB BAR (W.C. SIDE)
- 10-25C 18" VERTICAL GRAB BAR (W.C. SIDE)
- 10-27 UTILITY SHELF
- 10-28 MOP HOLDER
- 10-29 FRAMED MIRROR
- 10-45 WALL MOUNTED PLASTIC DIAPER CHANGING TABLE
- 10-56 ADA COMPLIANT UNDER-SINK PROTECTORS ON SUPPLY LINES AND P-TRAP
- 11-46 TRASH CAN (BY OWNER)
- 22-2 MOP SERVICE SINK
- 22-3E SURFACE MOUNTED DRINKING FOUNTAIN
- 22-3F SURFACE MOUNTED EWC ADA COMPLIANT
- 22-5 SINK
- 22-6 LAVATORY
- 22-7 WALL MOUNTED LAVATORY (ADA)
- 22-8 FLOOR MOUNTED FLUSH VALVE WC
- 22-8A FLOOR MOUNTED FLUSH VALVE WC (ADA)
- 22-13 FLOOR DRAIN
- 22-17 FREEZELESS WALL HYDRANT
- 22-18 WATER HEATER
- 23-11A INSULATED METAL MECH. DUCT
- 26-1 PANEL BOARD - PROVIDE PLYWOOD BACKING AS REQ'D
- 26-2 WALL MOUNTED DEVICE RE: ELEC.
- 26-4 LIGHT FIXTURE, TYP. REFER TO ELECTRICAL SCHEDULE.



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Drawn by Checked by
 KC KC

Title
 ENLRG PLANS &
 INT ELEVATIONS

A400

DRAWING NOTES

- 1-5 CONSULT GOVERNING AUTHORITIES FOR SPECIFIC REQUIREMENTS REGARDING GOVERNING CODES, RULES, REGULATIONS AND STANDARDS.
- 1-11 DIMENSIONS ARE NOMINAL AND ARE TO GRID LINE OR FACE OF GYP BD, MASONRY OR CONCRETE UNLESS NOTED. AT EXTERIOR WALL STUDS, DIMENSIONS ARE TO FACE OF STUD. RE: PARTITION TYPES FOR ACTUAL WALL THICKNESSES. REFER TO DRAWING A010 FOR PARTITION TYPES & NOTES
- 1-12 REFER TO DRAWING A800 FOR PENETRATION DETAILS THRU FIRE RATED PARTITIONS.
- 1-14 REFER TO DRAWING A800 FOR PARTITION TYPES & DETAILS THRU FIRE RATED PARTITIONS.
- 1-15 ALL GYP BD TO BE TYPE X U.O.N.
- 1-16 ALL DOOR R.O. TO BE 4" FROM PERPENDICULAR WALL U.O.N.
- 1-17 PROVIDE MIN. R-13 SOUND BATT INSULATION IN ALL WALLS AROUND FULL HEIGHT OFFICE WALLS, TOILETS, CONFERENCE ROOMS, AND MECHANICAL OR ELECTRICAL ROOMS.
- 1-18 PROVIDE SEALANT AT ALL DISSIMILAR MATERIALS.
- 1-19 ALL GYPSUM BOARD TO BE INSTALLED PER MFR RECOMMENDATIONS. SHALL BE TAPED, BEDDED, FINISHED TO LEVEL 5 STANDARD, AND PAINTED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALLS.
- 1-20 REFER TO DRAWING A011 FOR DOOR SCHEDULE AND DOOR TYPES.
- 1-21 REFER TO DRAWING A900 FOR ROOM FINISH PLANS AND FINISH SCHEDULE.
- 1-22 ELECTRICAL BOXES SHALL NOT BE MOUNTED BACK TO BACK. BOXES SHALL BE SEALED TO GYP. BD. WITH RESILIENT CAULK.
- 1-24 METAL STUD GAUGES AT 24" O.C., AS FOLLOWS:
25 GA: 12'-9" MAX. HGT.
22 GA: 14'-0" MAX. HGT.
20 GA: 15'-0" MAX. HGT.
(NOTE: GAUGES ARE BASED ON 24" O.C., CHANGE SPACING TO 16" O.C. OR PROVIDE STRUCTURAL GAUGE STUDS AS REQ'D. WHERE INDICATED GAUGE AND HEIGHT LIMITS EXCEED MFR. RECOMMENDATION, COORDINATE WITH ARCHITECT AND SPECS.)
- 1-25 MAXIMUM HEIGHT OF METAL STUDS BASED ON A MAXIMUM DEFLECTION OF L/120.
- 1-27 SET FLOOR TRACK ON CONTINUOUS BEADS OF ACOUSTICAL SEALANT ON BOTH SIDES.
- 1-28 PROVIDE MIN. R-13 FLENUM RATED SOUND BATT INSULATION ABOVE CEILING OR ABOVE ALL 'SOUND ISOLATED' (SEE NOTE 1-17) ROOMS FOR A DISTANCE OF 6' EA. SIDE OF WALL - UNLESS ALL PERIMETER DEMISING WALLS ARE CONTINUOUS TO STRUCTURE ABOVE.
- 1-29 PROVIDE FIRE RETARDANT WD. BLOCKING IN PARTITIONS AS REQ'D BY CASEWORK AND MARKER BOARDS, ETC.. COORD. WITH OWNER ON ITEMS/FIXTURES AND CASEWORK INSTALLED BY OWNER THAT MAY REQ. BLOCKING.
- 1-30 ALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING AND/OR PAINTING.
- 1-31 REFER TO SLIP JOINTS DETAILS FOR PARTITION DEFLECTION CONDITIONS @ FLOOR AND STRUCTURE ABOVE.
- 2-27 EXISTING ROOF HATCH AND LADDER TO REMAIN.
- 3-1A 1/2" COMPRESSIBLE FILLER
- 3-2A C.I.P. CONCRETE FOUNDATION
- 3-13A 4" CONCRETE SLAB ON GRADE
- 4-1R 4" NOMINAL SPLIT FACE SINGLE SIDE CMU
- 4-8B PRE-CAST CAP
- 5-1 STEEL BEAM
- 5-6 STEEL LINTEL
- 5-14D 6" STRUCTURAL STUDS AT 16" O.C. MAX. RE: STRUCT. DWGS.
- 5-35 18 GA STRUCTURAL JOIST HEADER, RE: STRUCT. DWGS.
- 6-2 CONTINUOUS WOOD BLOCKING
- 6-13 5/8" PLYWOOD SHEATHING
- 6-3RD PAINTED MDF SILL
- 7-1 VAPOR RETARDER
- 7-1C WATER RESISTIVE BARRIER
- 7-2 BATT INSULATION RE: SPECS
- 7-3A 2" RIGID INSULATION
- 7-4 PERIMETER INSULATION
- 7-11 ROOF INSULATION
- 7-14B 20 GA. METAL DOWNSPOUT, PAINT
- 7-18 24 GAUGE GALV. SHEET METL. FLASHING - PAINT
- 7-18A PREFINISHED SHEET METAL FLASHING
- 7-26 COMPOSITION ROOF OF SHINGLE SYSTEM
- 7-28 DAMPPROOFING
- 7-30 PROTECTION BOARD
- 7-45 ROOF VENT
- 8-2 DOOR AS SCHEDULED
- 8-2A EXTERIOR HOLLOW METAL DOOR AND FRAME
- 8-11A ALUM. STOREFRONT WINDOW
- 8-13 1" TINTED INSULATING GLASS
- 9-2A GYP. BD. PAINTED - RE: ROOM FINISH SCHEDULE & PLANS (RE: FLOOR PLANS FOR PARTITION TYPE)
- 9-8 1 LAYER 5/8" GYP. BD.
- 9-16 CONTROL JOINT
- 9-22 6" METAL STUD AT MAX 24" O.C.
- 9-36 SUSPENDED ACT CLG. SYSTEM RE: REFLECTED CEILING PLANS & FINISH PLANS
- 9-40A WALL BASE - RE: ROOM FINISH SCHEDULE & PLANS
- 23-78 GROUND MOUNTED HVAC UNIT
- 23-11A INSULATED METAL MECH. DUCT
- 23-14 EXHAUST/INTAKE DUCT, RE: MECHANICAL
- 27-3 PLYWD PATCH PANEL BOARD



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Job No: **24010**

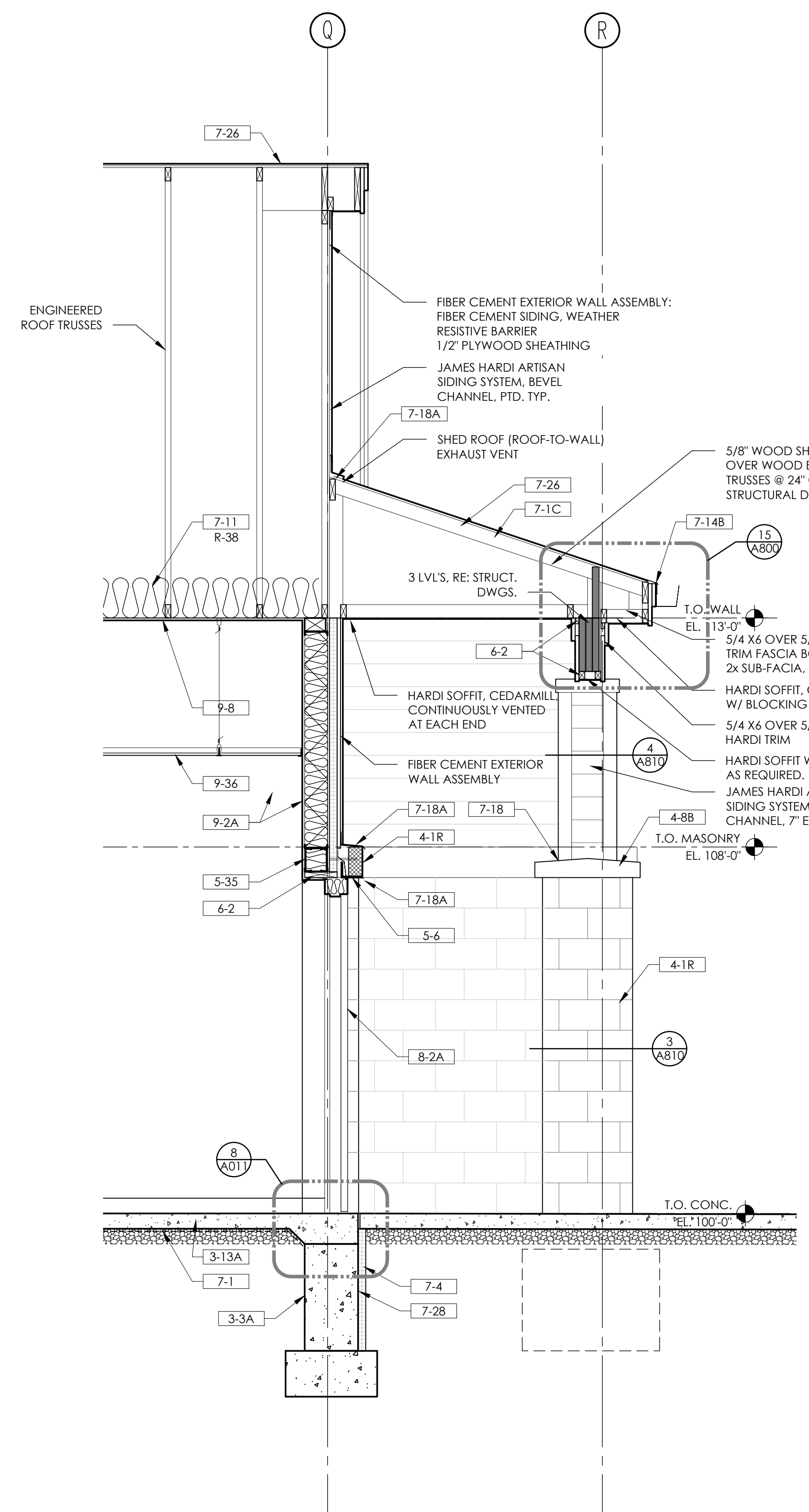
Revisions / Submittals:
No. Date Description
1 11/18/2024 Permit Issue Set

Date: 11/18/2024

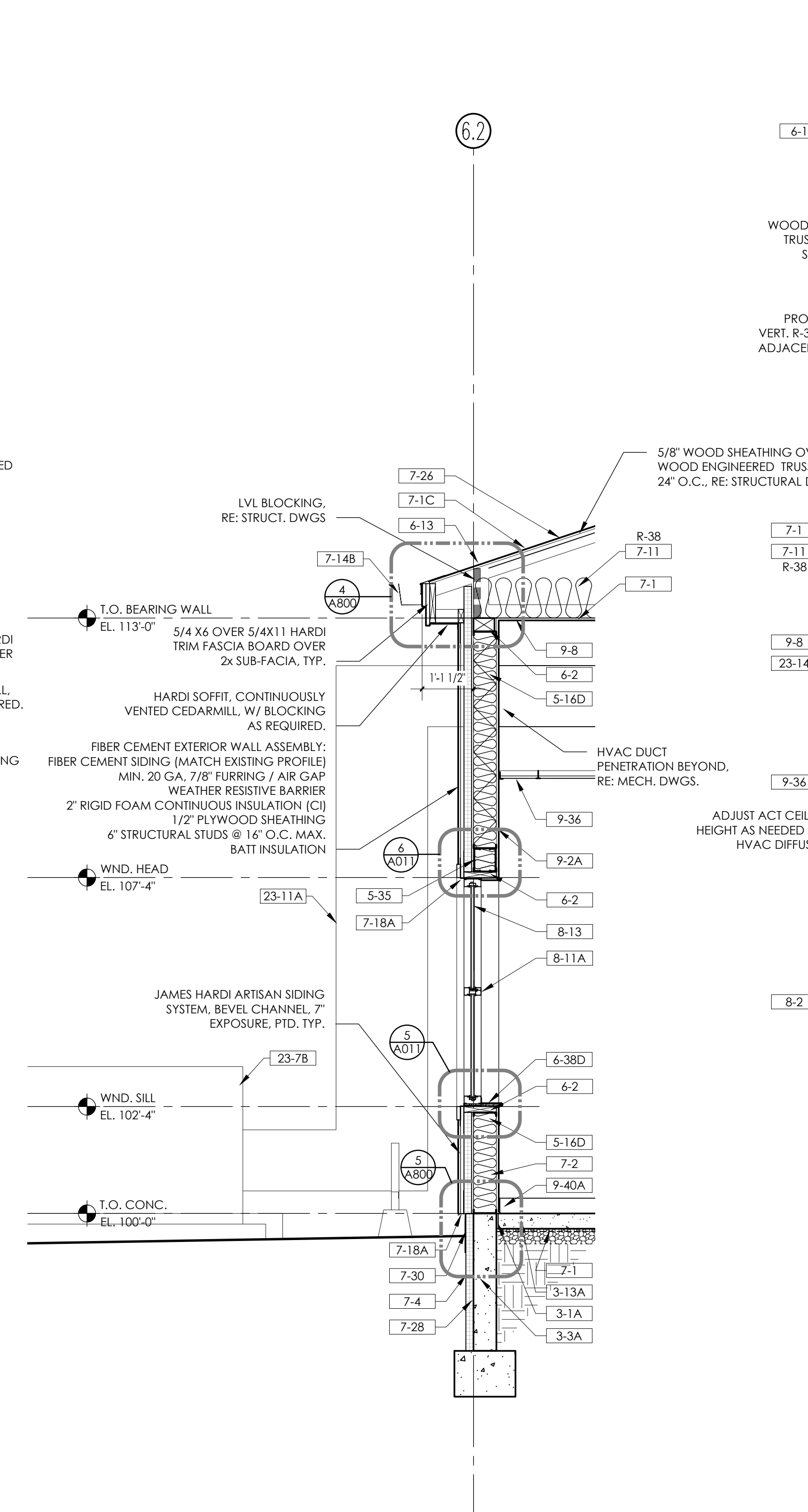
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Title: WALL SECTIONS

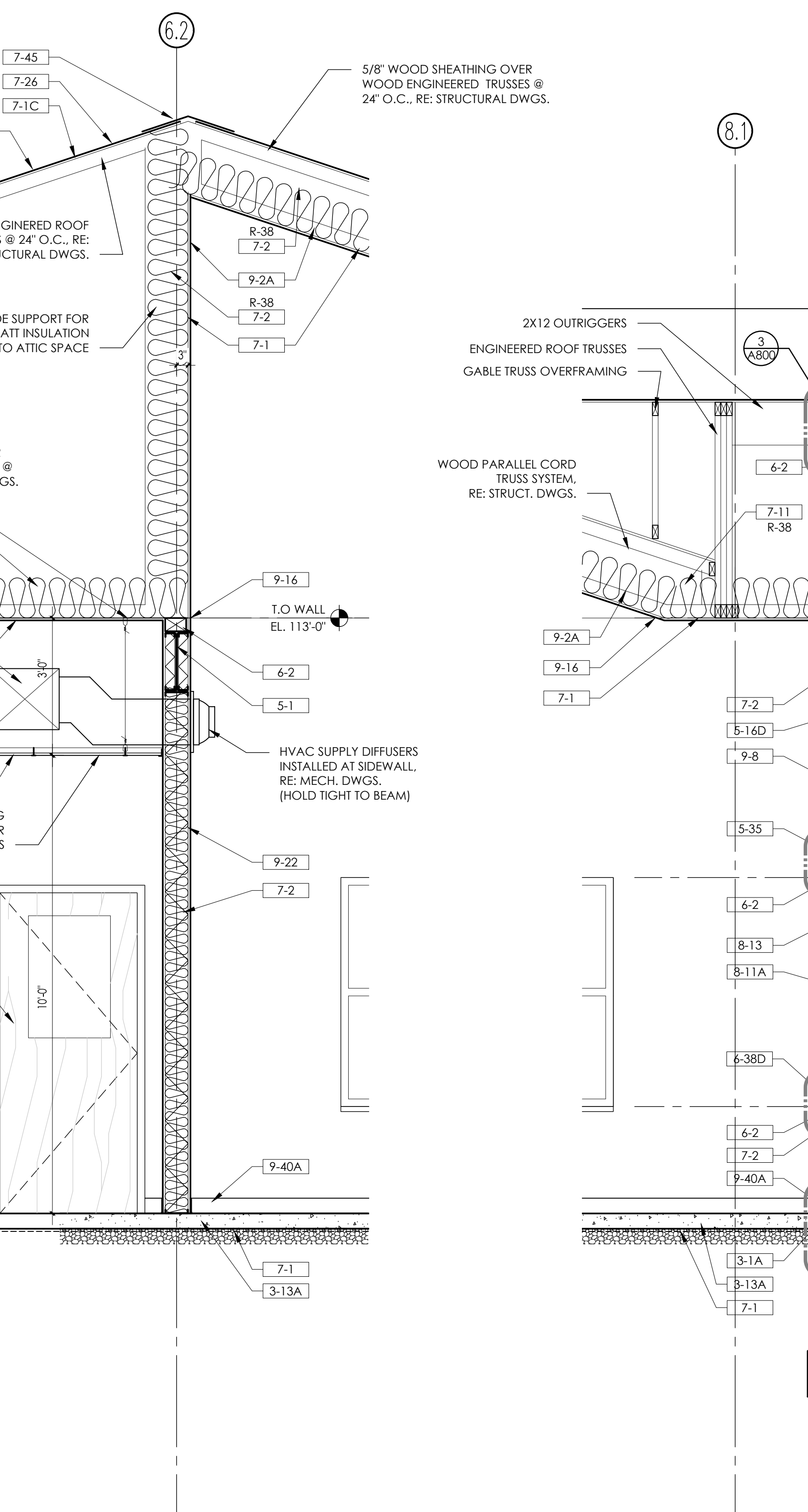
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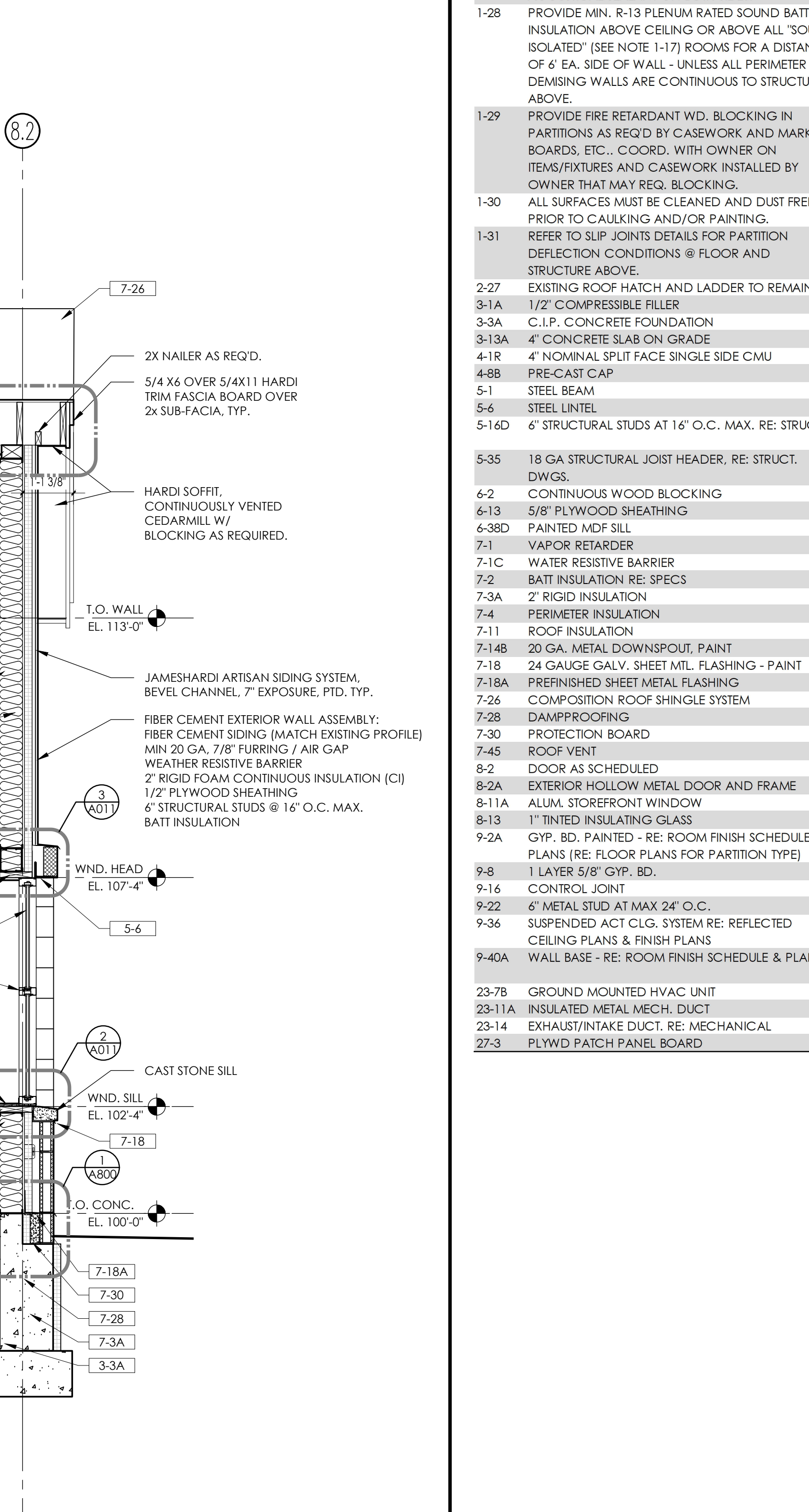
4 WALL SECTION
1/2" = 1'-0"



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

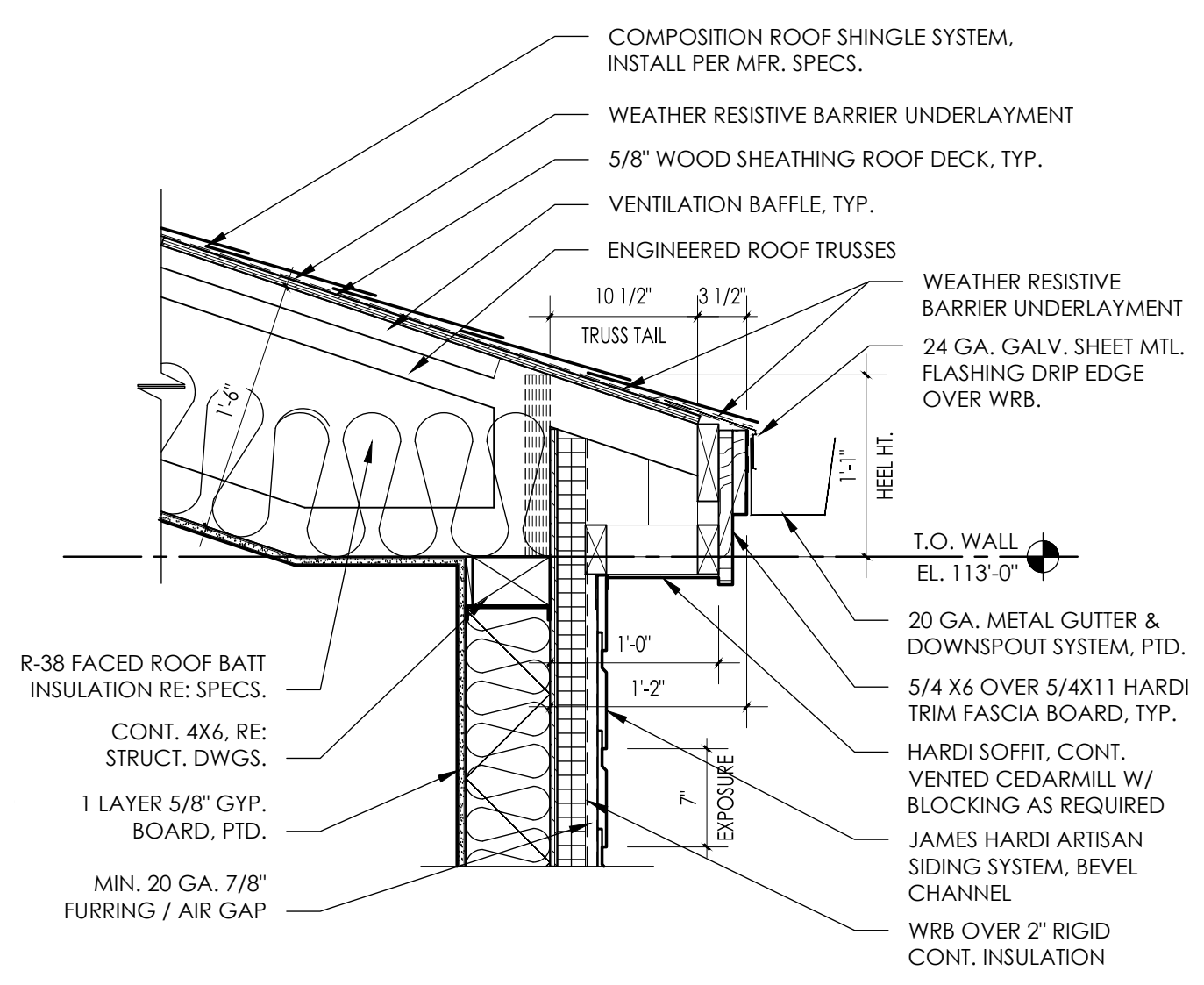


2 WALL SECTION
1/2" = 1'-0"

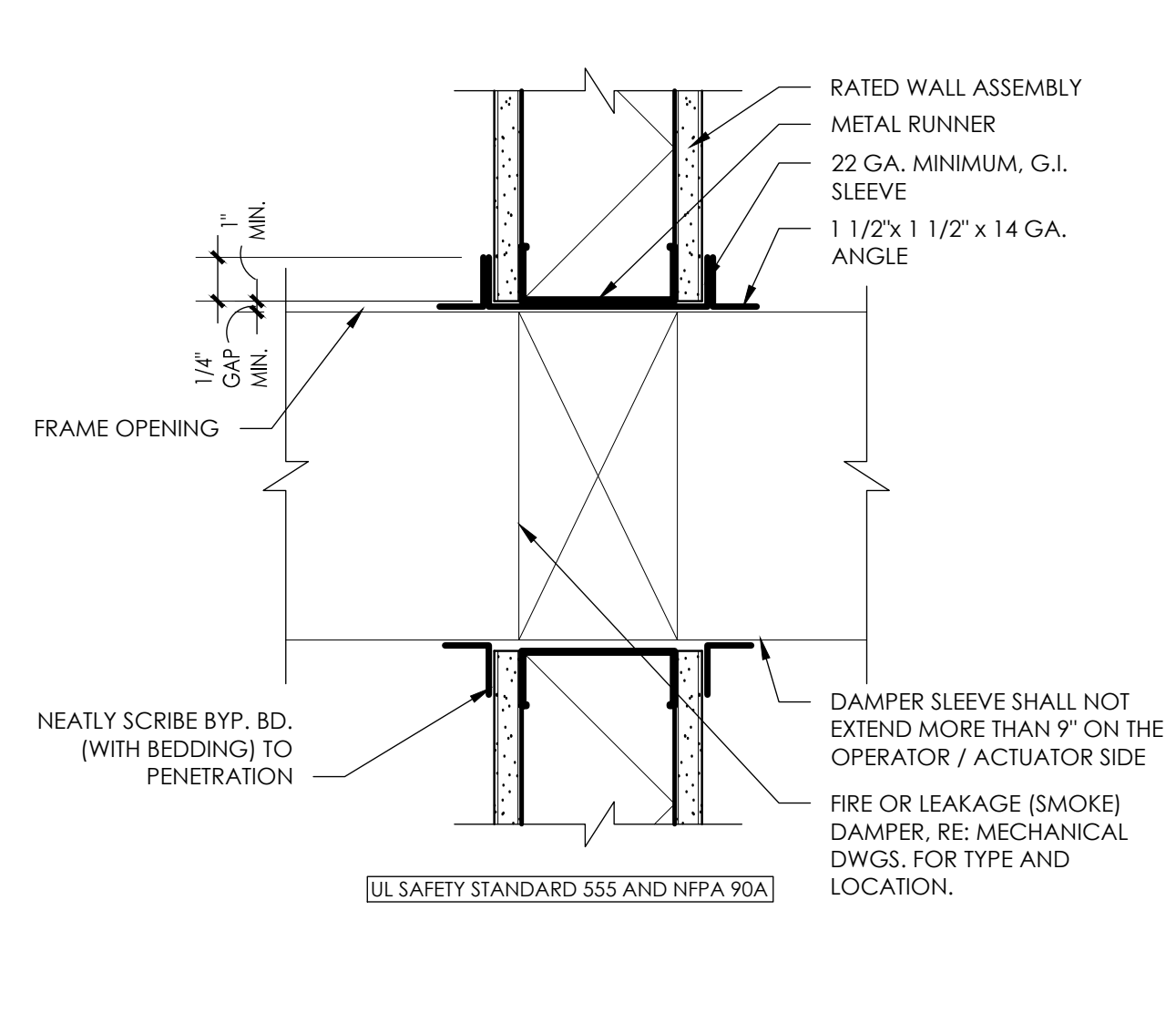


1 WALL SECTION
1/2" = 1'-0"

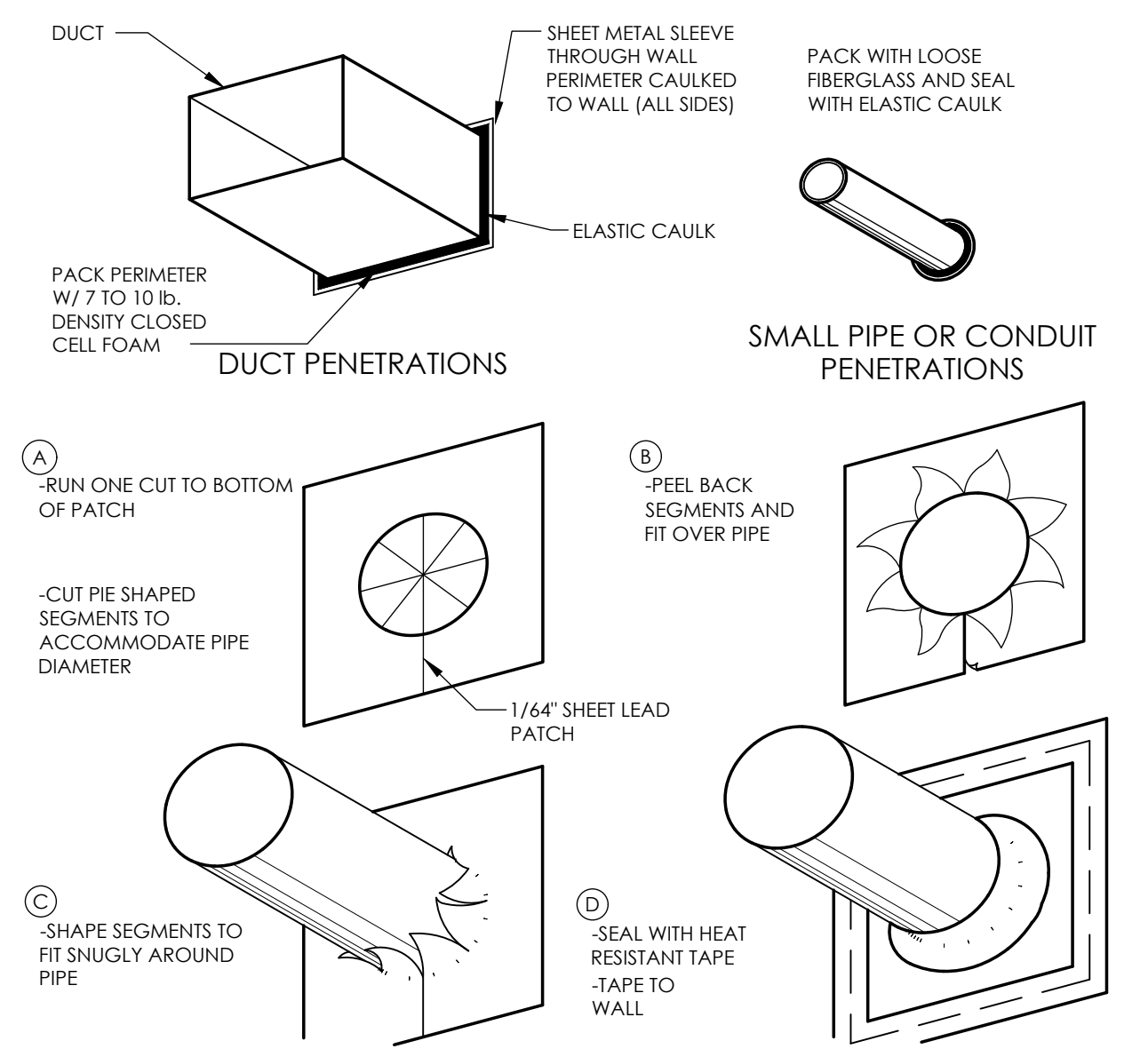
- Notes:
RSTAMP
xTITLE20x42
xINFO_30x42
xPRELIM_STAMP
XD0033SOUND WALL PENETRATIONS
X805 CEILING DETAIL
XD04NONRATEDGYPBDCONTROLINT
X801 BULKHEAD DETAIL
X803 BULKHEAD DETAIL
XD037THRATEDCONTROLINT
XD040DUCTTHROGYPBART
X802 BULKHEAD EXPANSION DETAIL
XD819EXPANSION JOINT COVER
XD818EAVE DETAIL
XD817RAKE DETAIL
XD810 BRCK LEDGE DETAIL AT FOUNDATION
XD813CMU SIDING DETAIL
XD815 FOUNDATION DETAIL @ SIDING
XD816EAVE DETAIL
XD817EAVE DETAIL @ CATHEDRAL CEILING



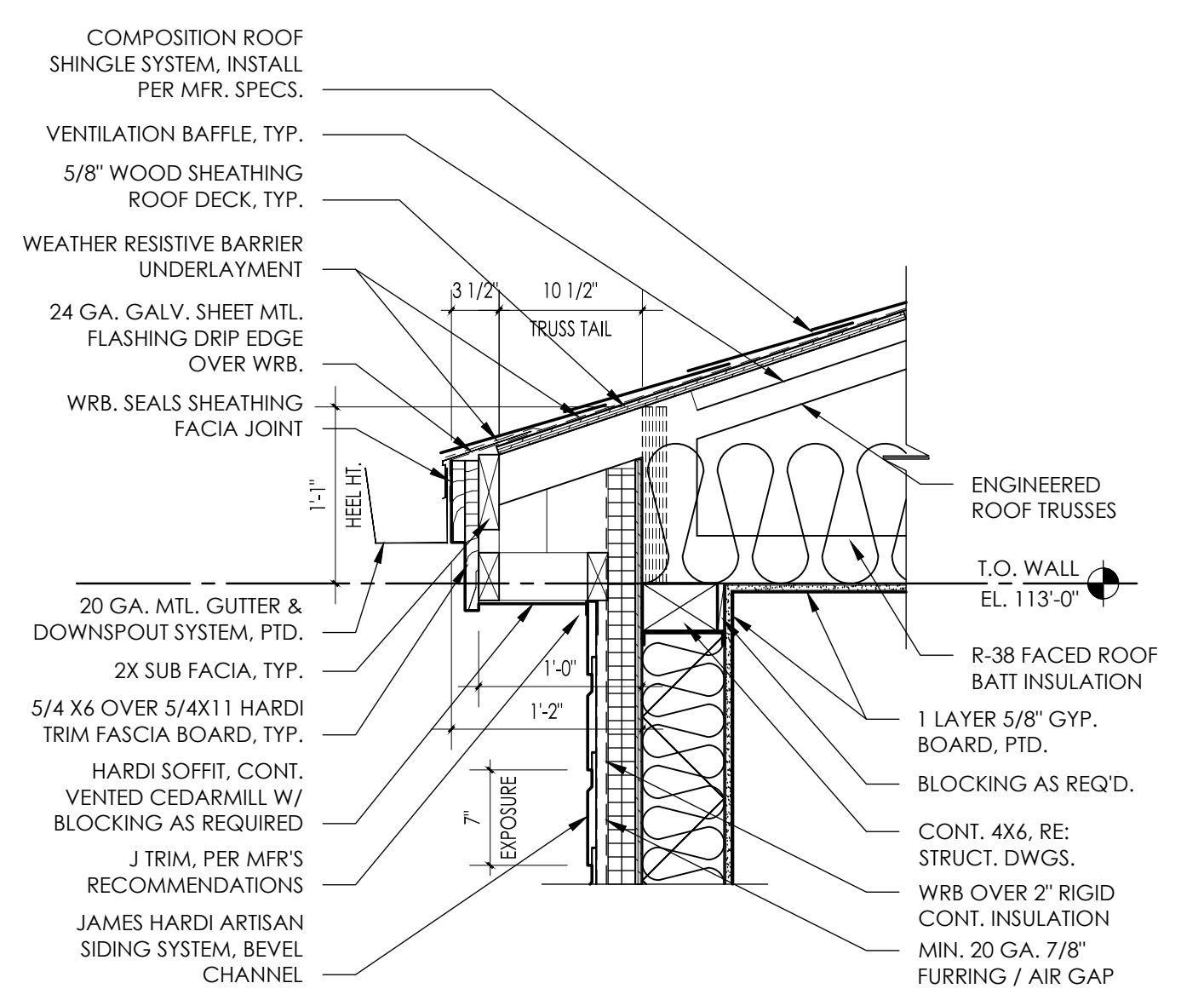
16 EAVE DETAIL @ CATH. CLNG
1" = 1'-0"



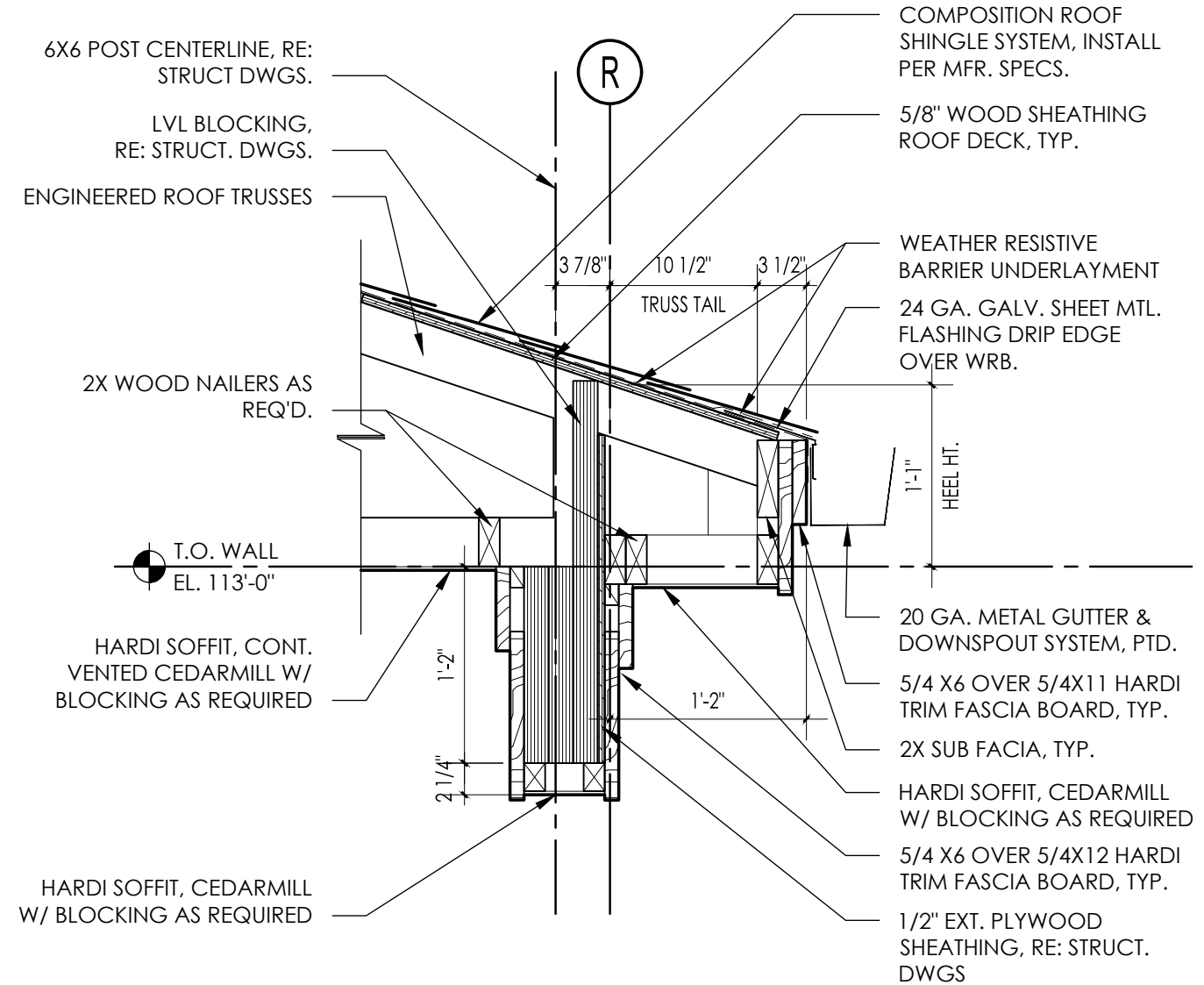
12 DUCT @ RATED GYP. BD. PARTITION
3" = 1'-0"



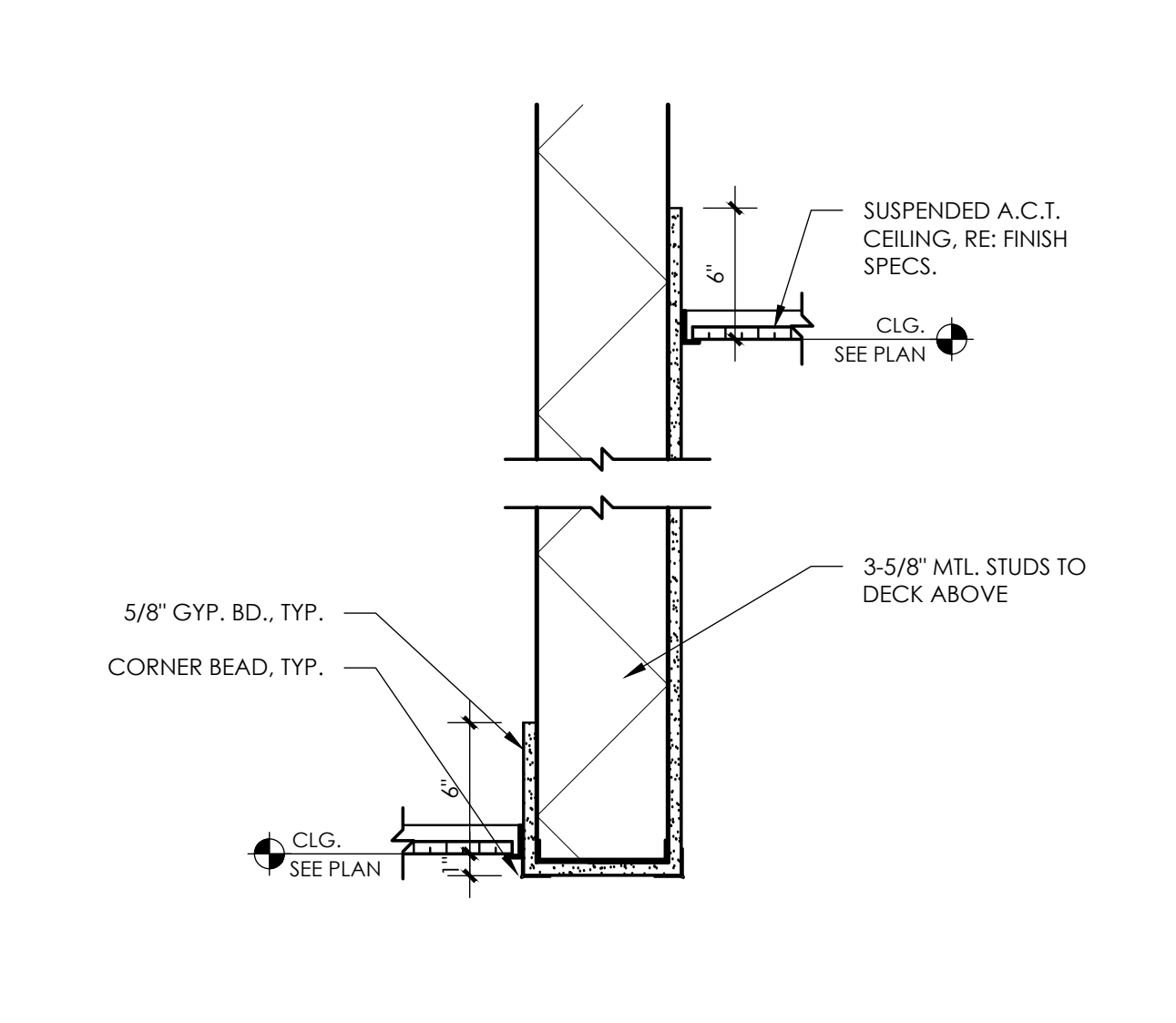
8 SOUND WALL PENETRATIONS
3/4" = 1'-0"



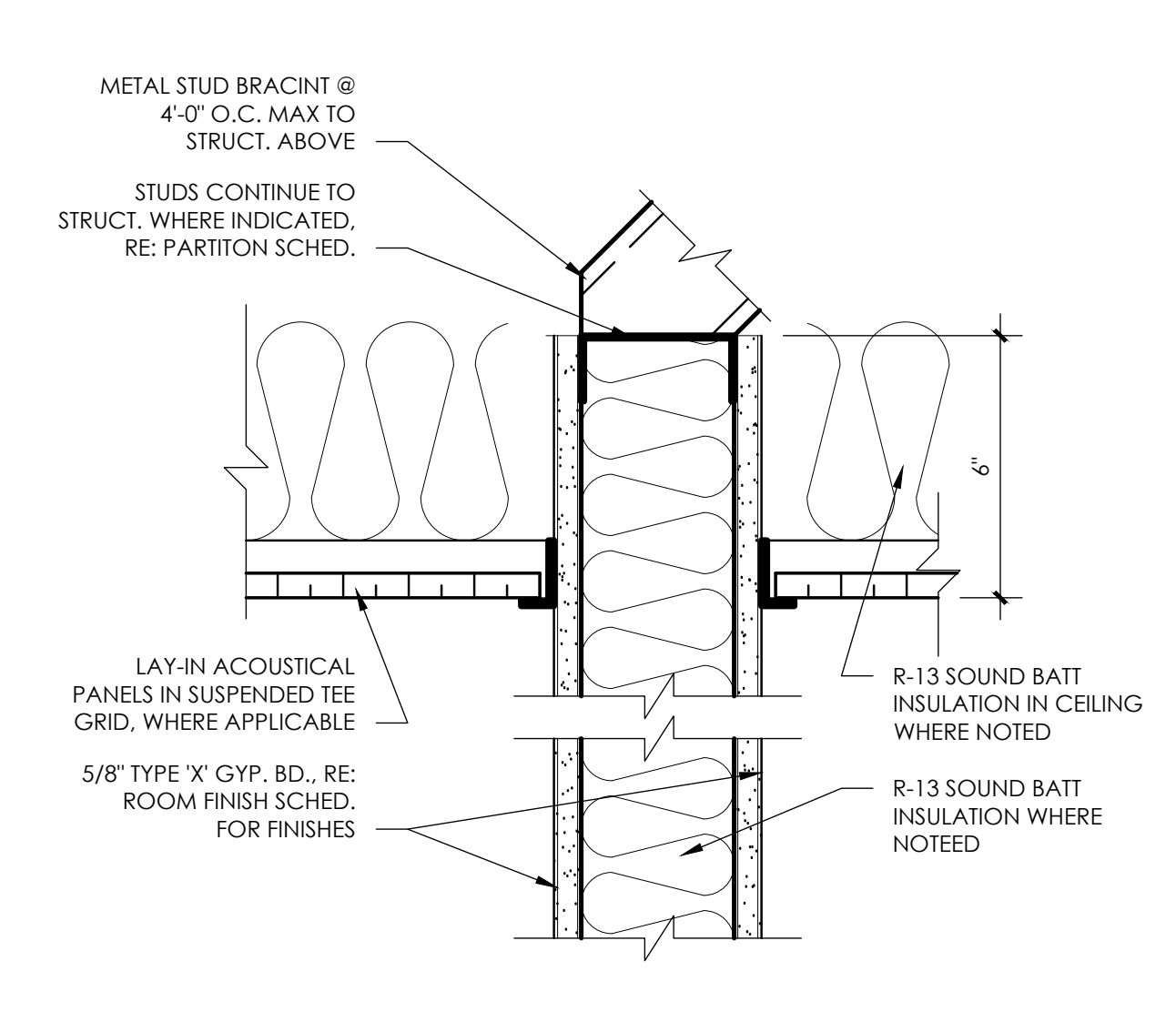
4 TYPICAL EAVE DETAIL
1" = 1'-0"



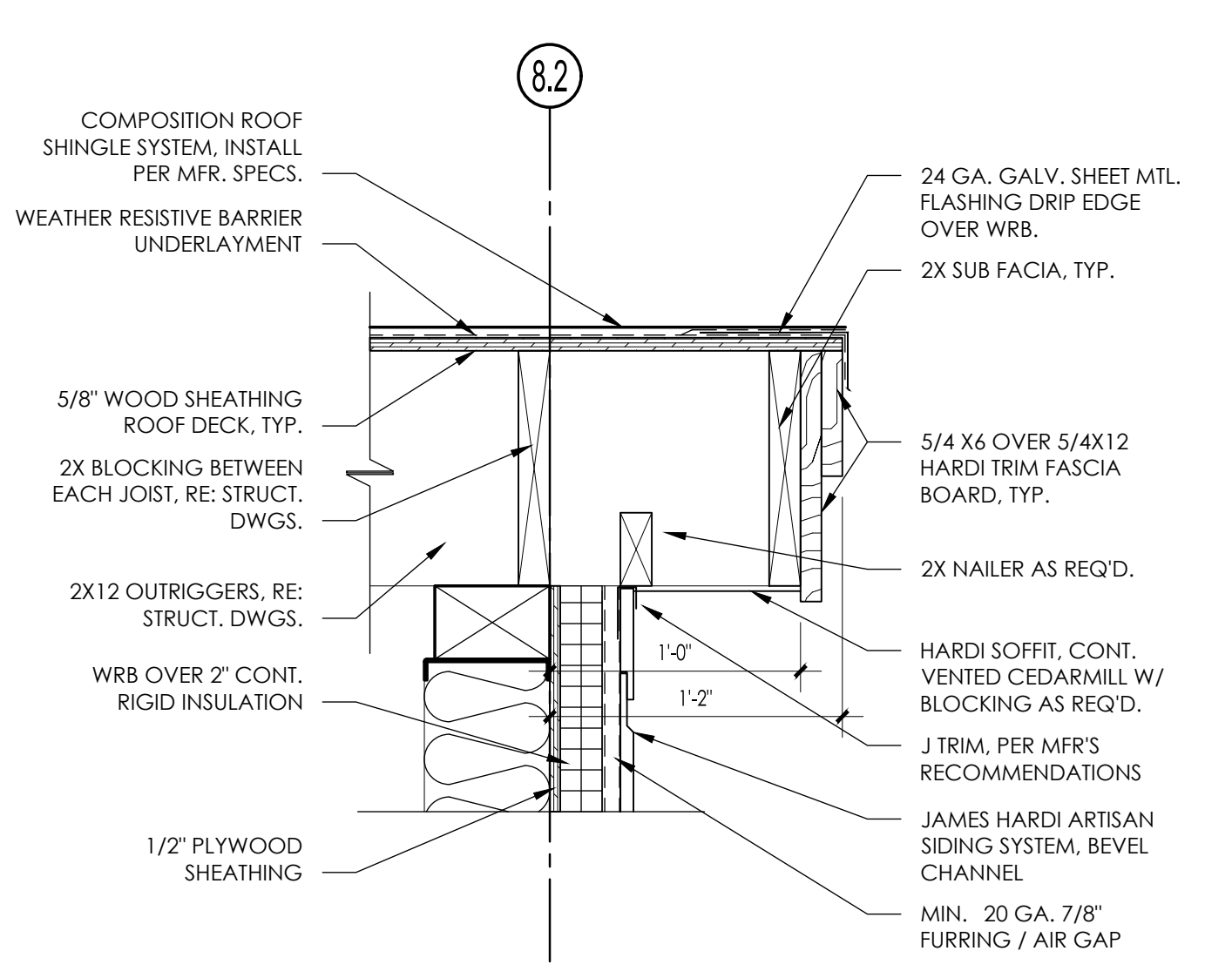
15 EAVE DETAIL @ PORCH
1" = 1'-0"



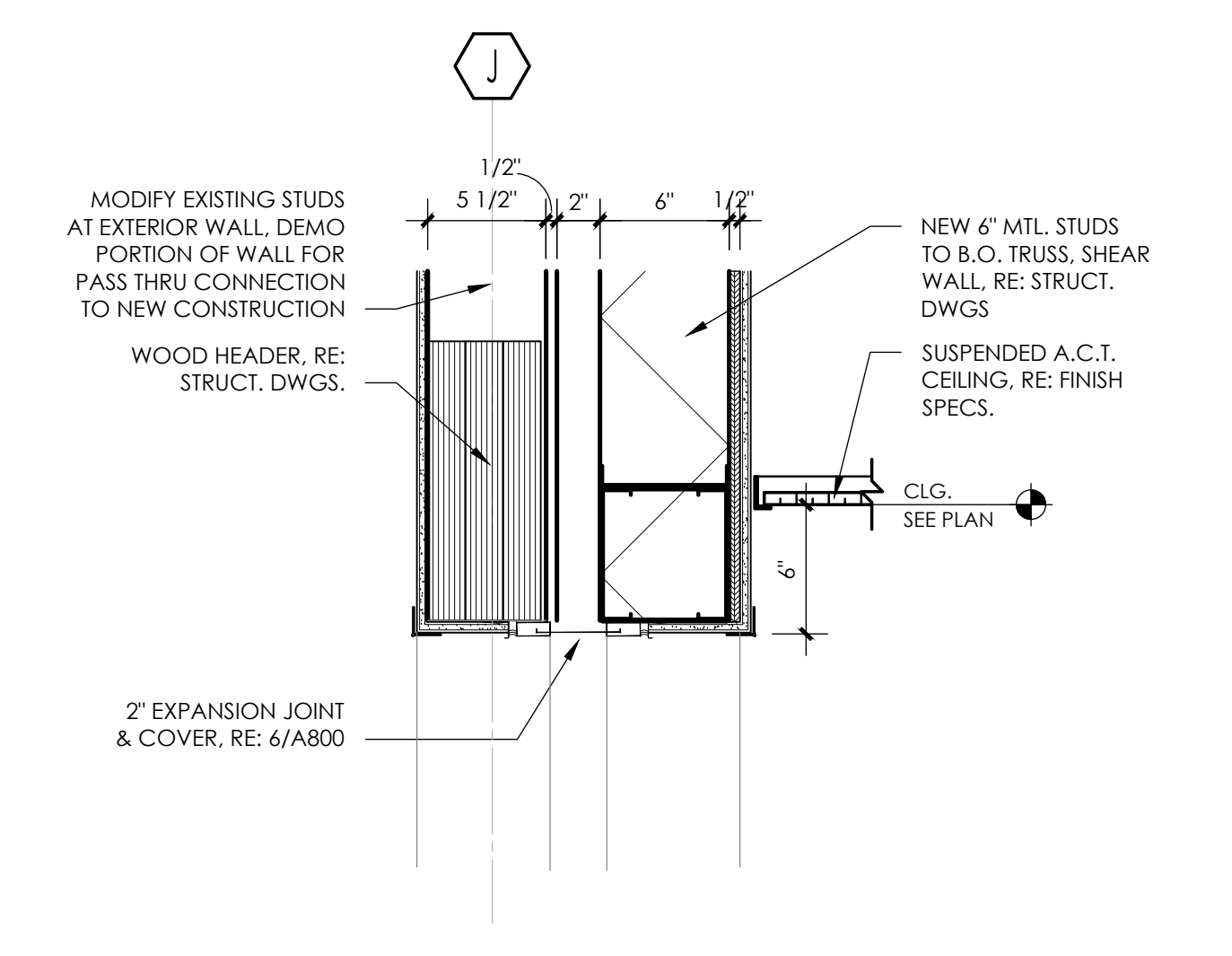
11 BULKHEAD DETAIL (2)
1 1/2" = 1'-0"



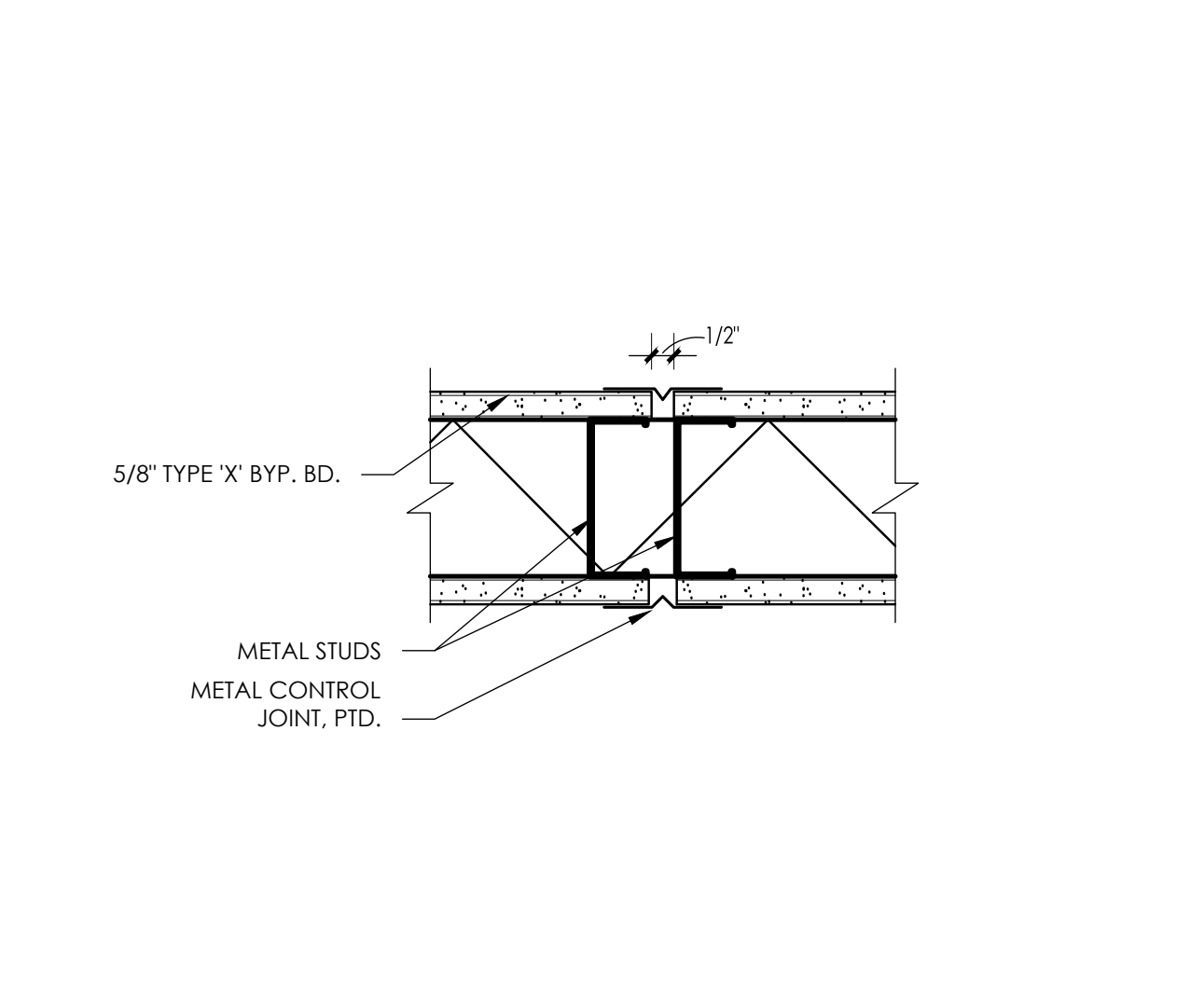
7 CEILING DETAIL
3" = 1'-0"



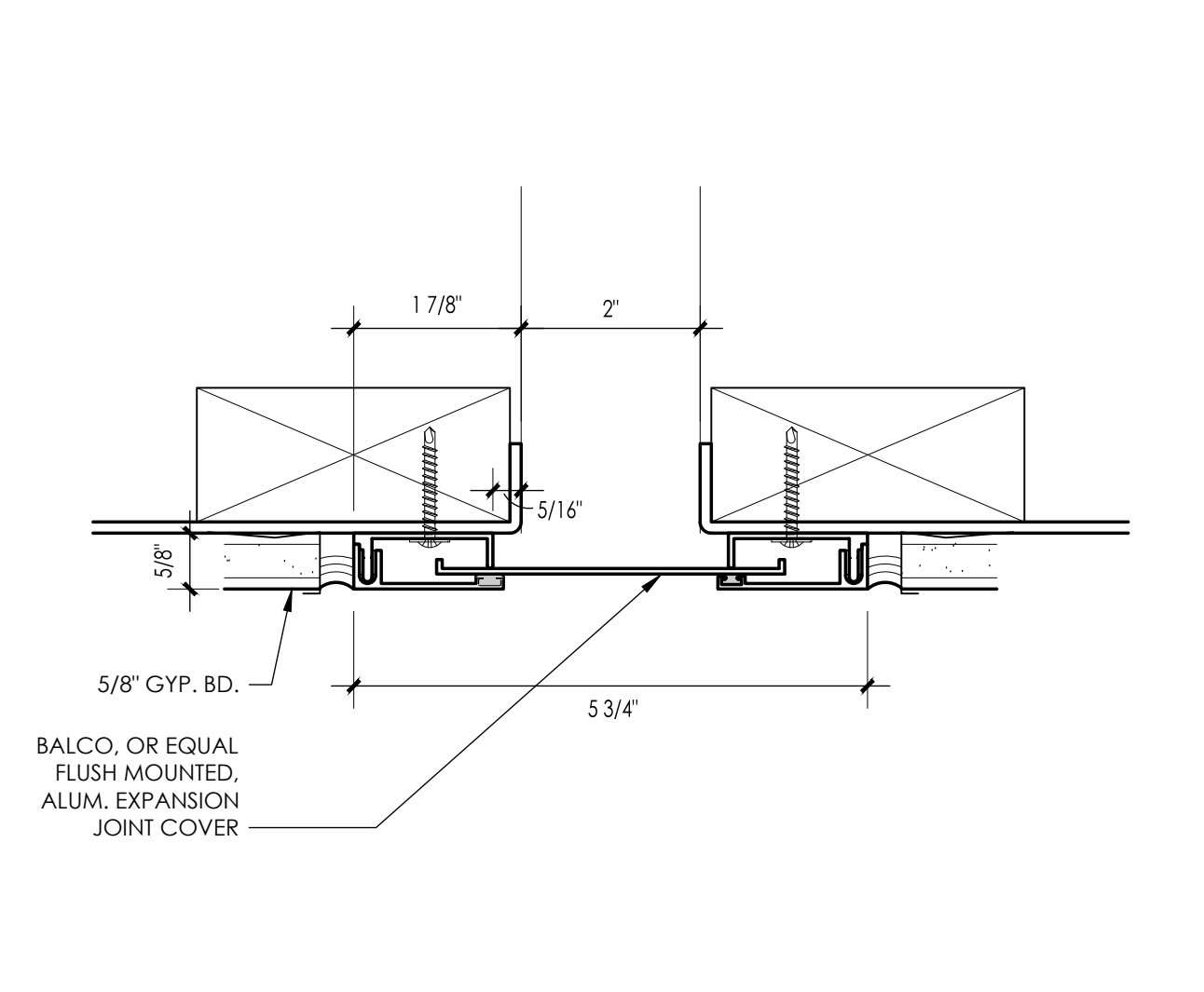
3 RAKE DETAIL
1 1/2" = 1'-0"



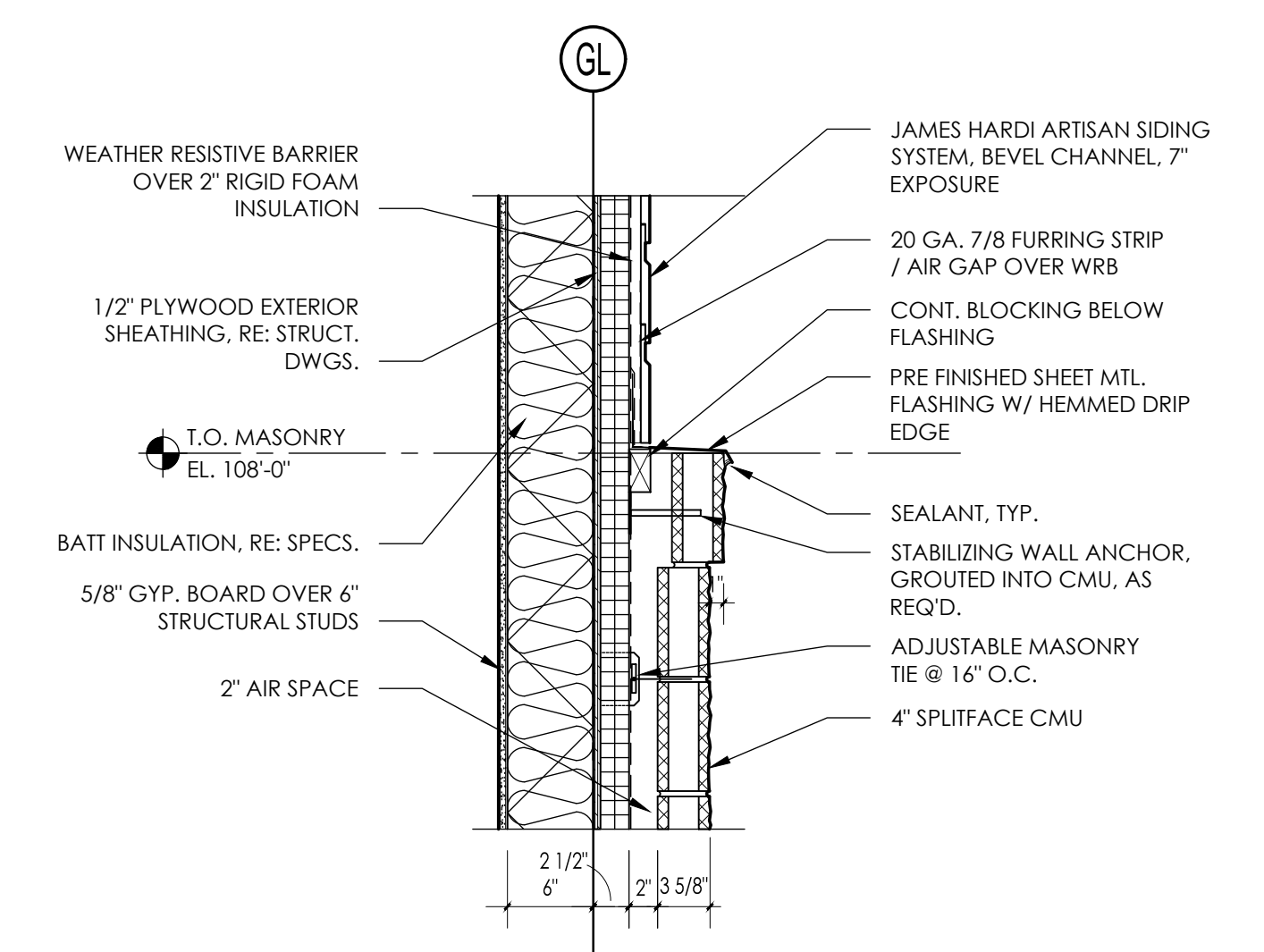
14 EXPANSION JT. @ BULKHEAD DETAIL
1 1/2" = 1'-0"



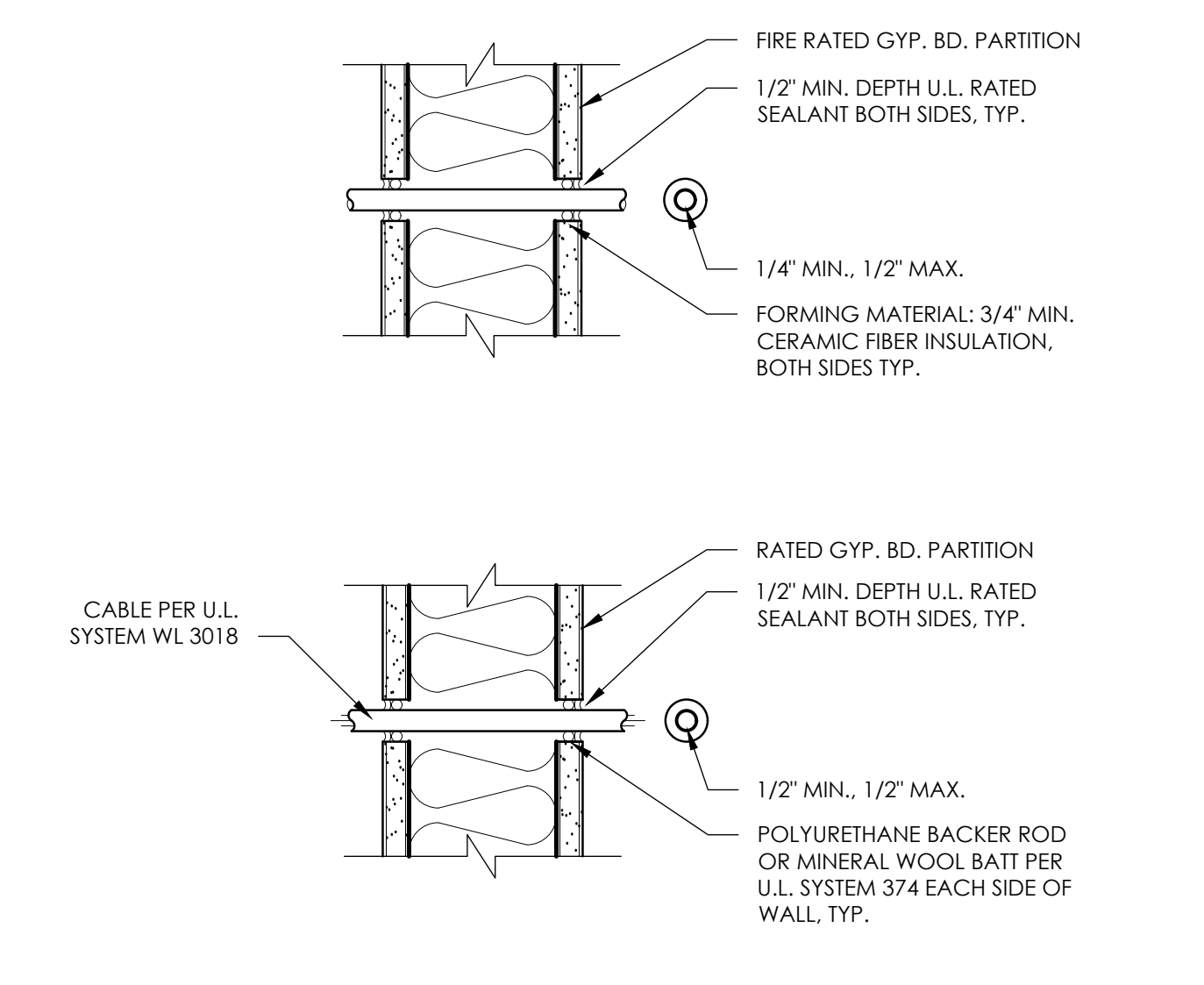
10 NON-RATED GYP. BD. CONTROL JOINT
3" = 1'-0"



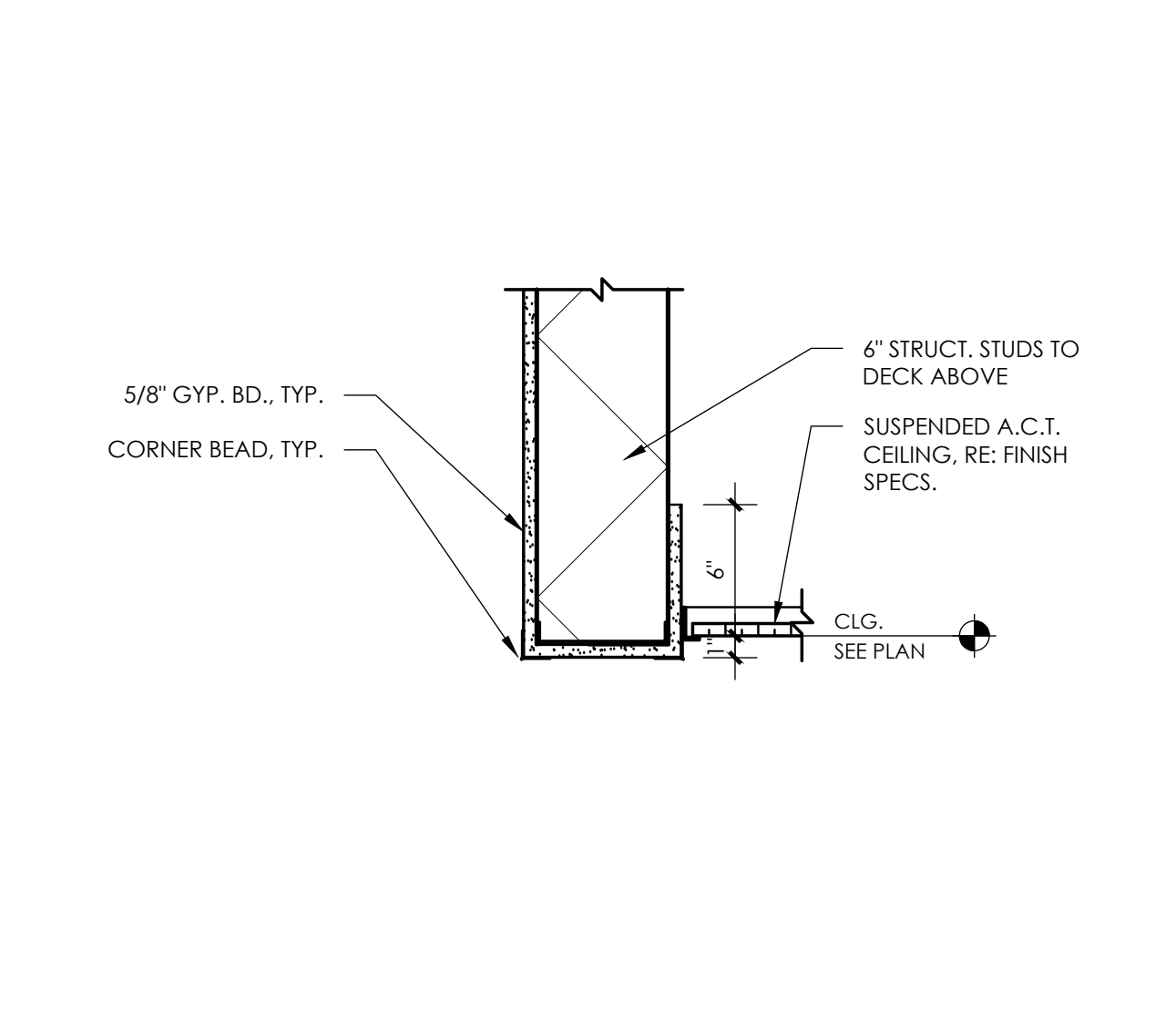
6 EXPANSION JOINT COVER
6" = 1'-0"



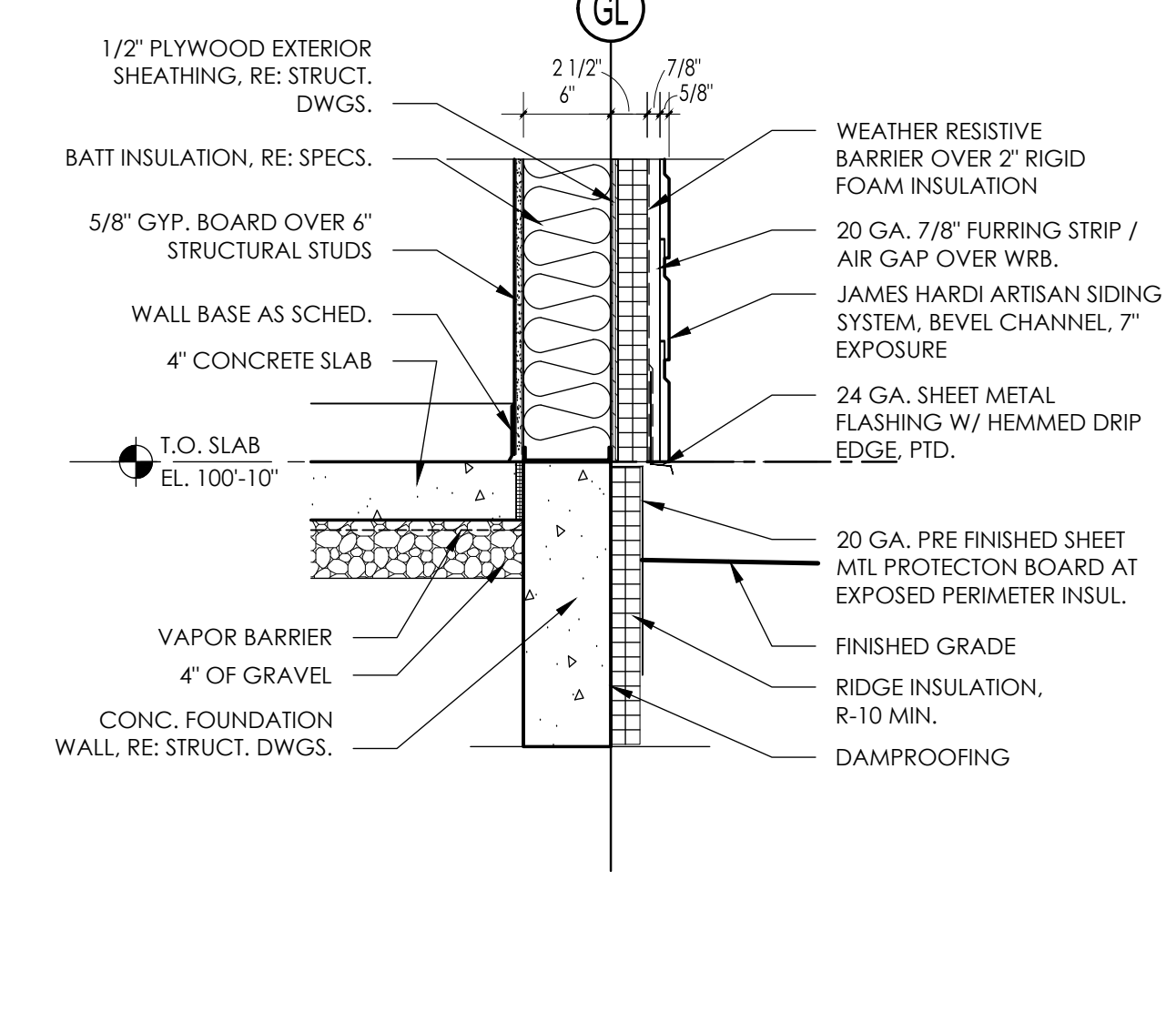
2 SIDING TO CMU DETAIL
1" = 1'-0"



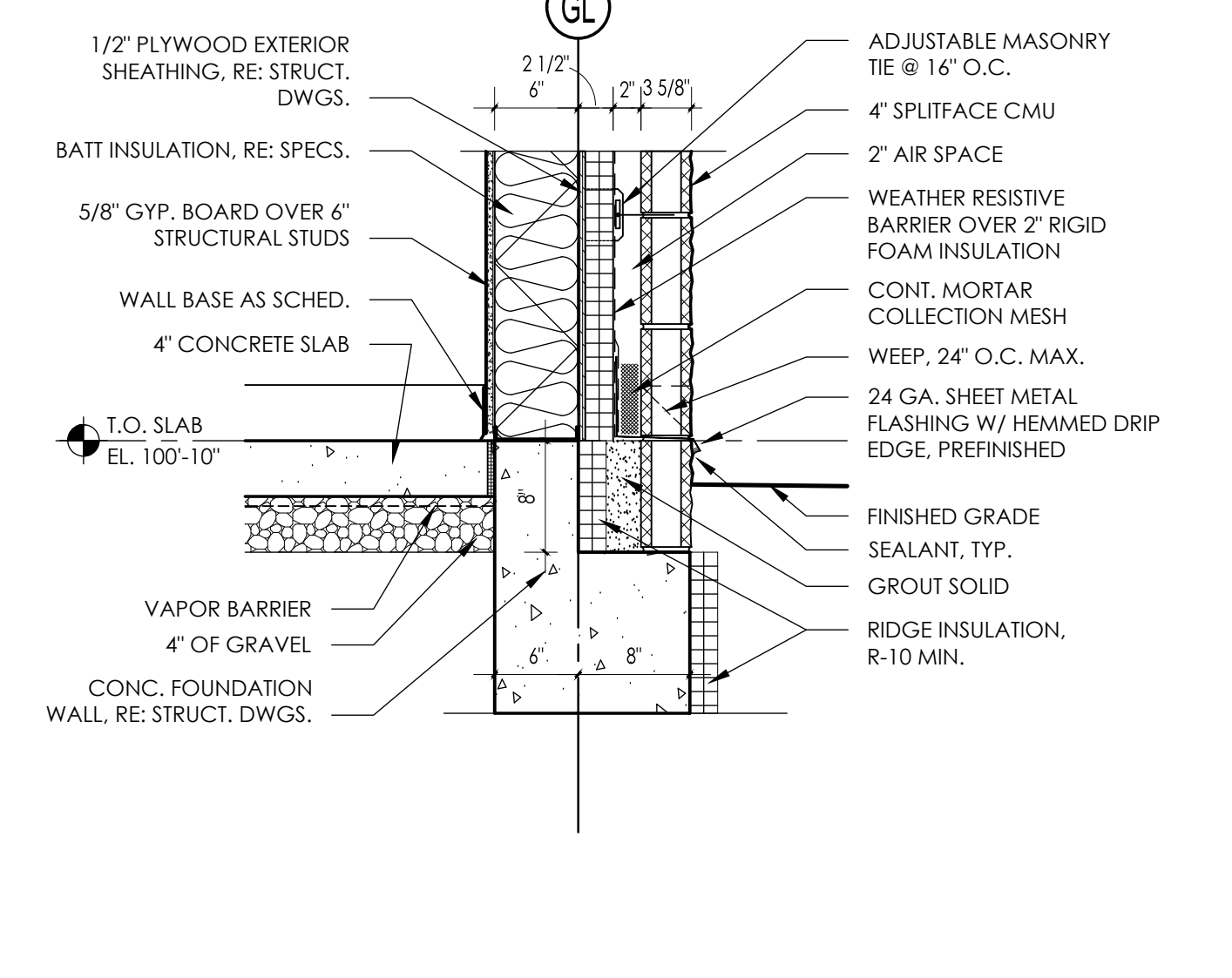
13 PIPE & CABLE @ GYP. BD. PARTITION
3" = 1'-0"



9 BULKHEAD DETAIL
1 1/2" = 1'-0"



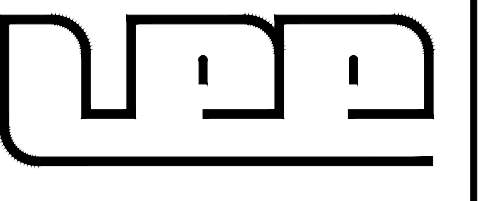
5 SIDING DETAIL @ FOUND.
1" = 1'-0"



1 CMU LEDGE DETAIL @ FOUND.
1" = 1'-0"



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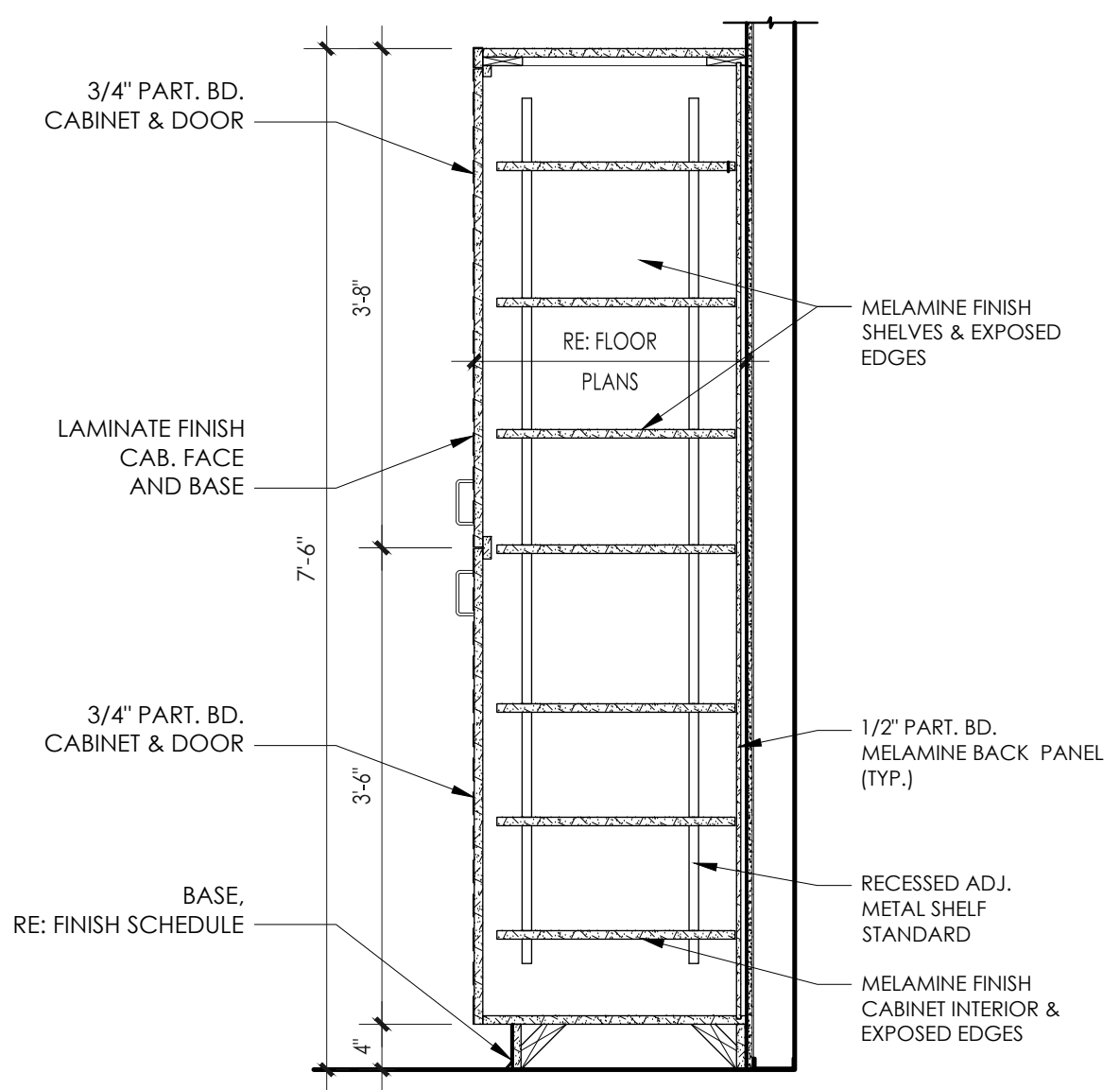
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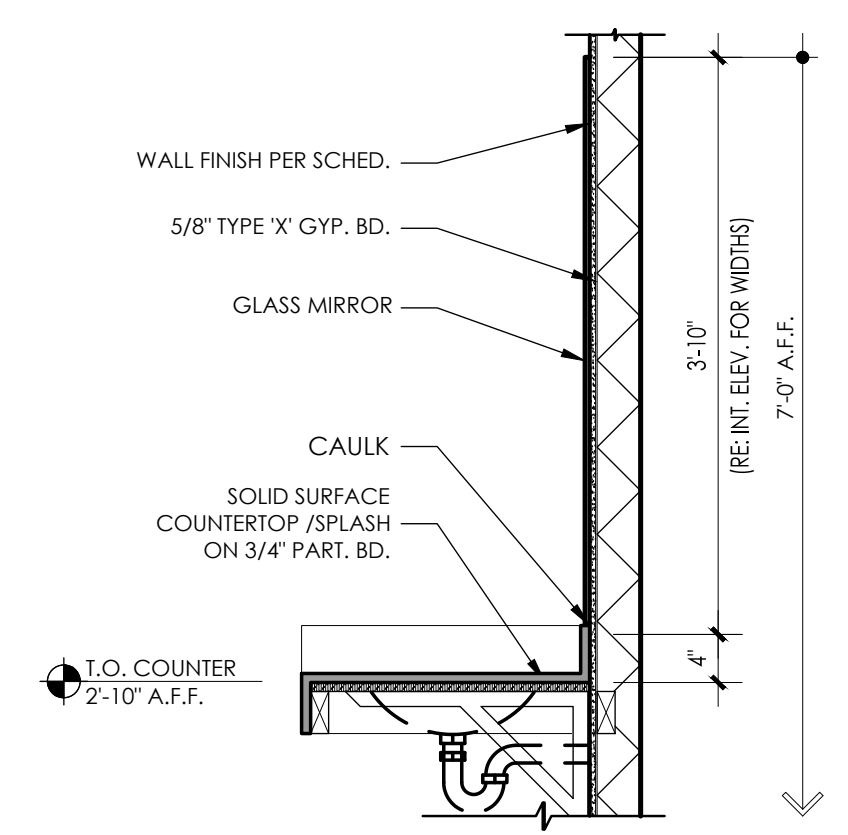
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DETAILS

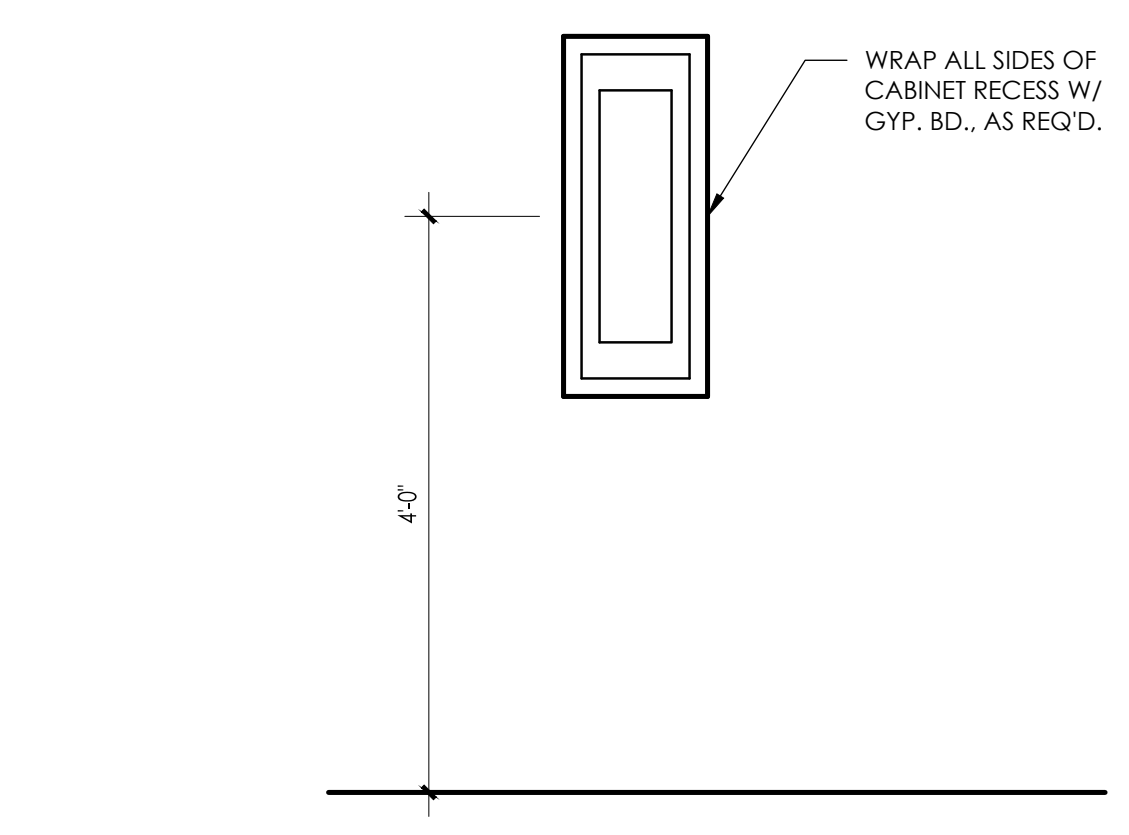
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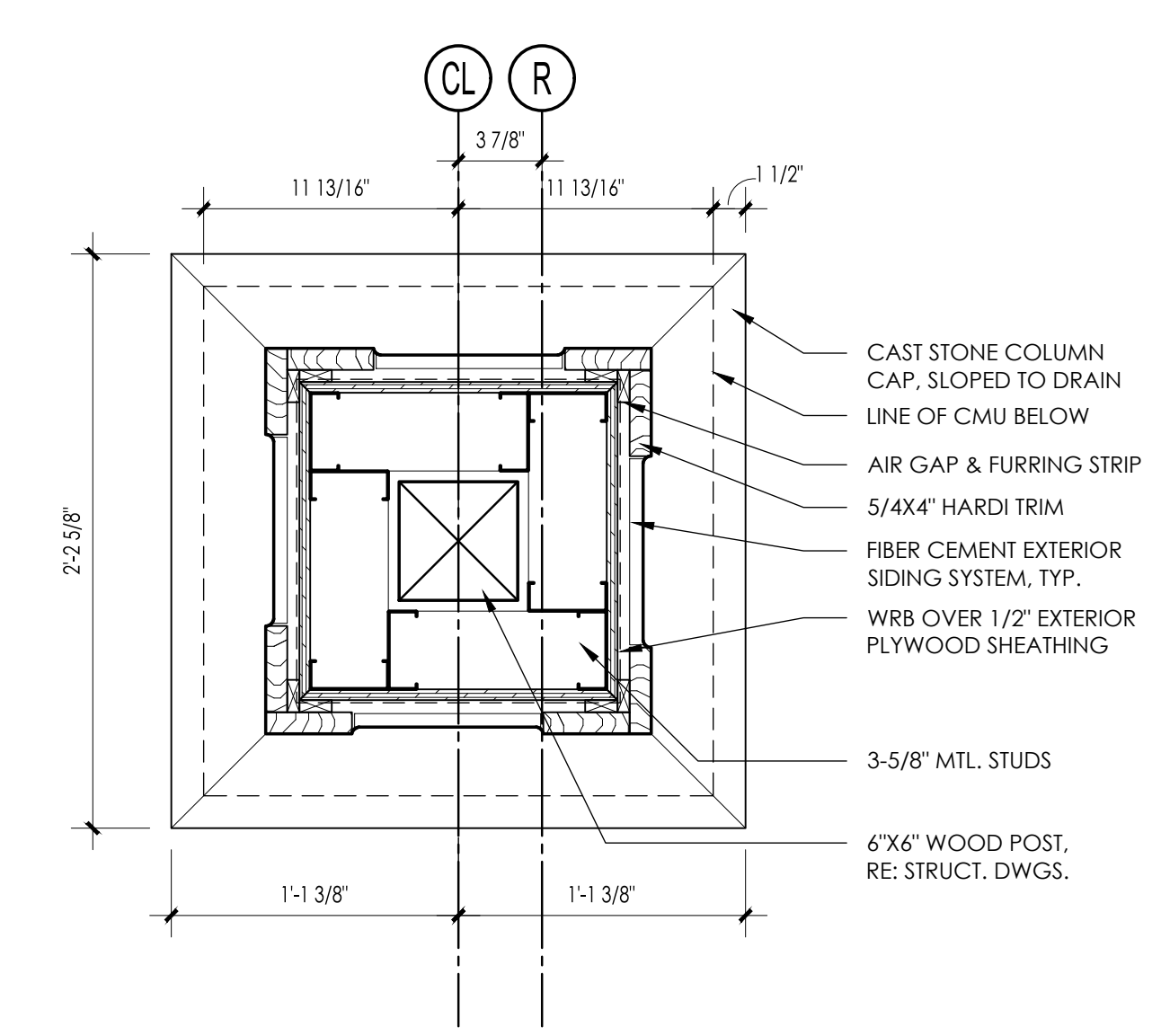
16 UTILITY CABINET
3/4" = 1'-0"



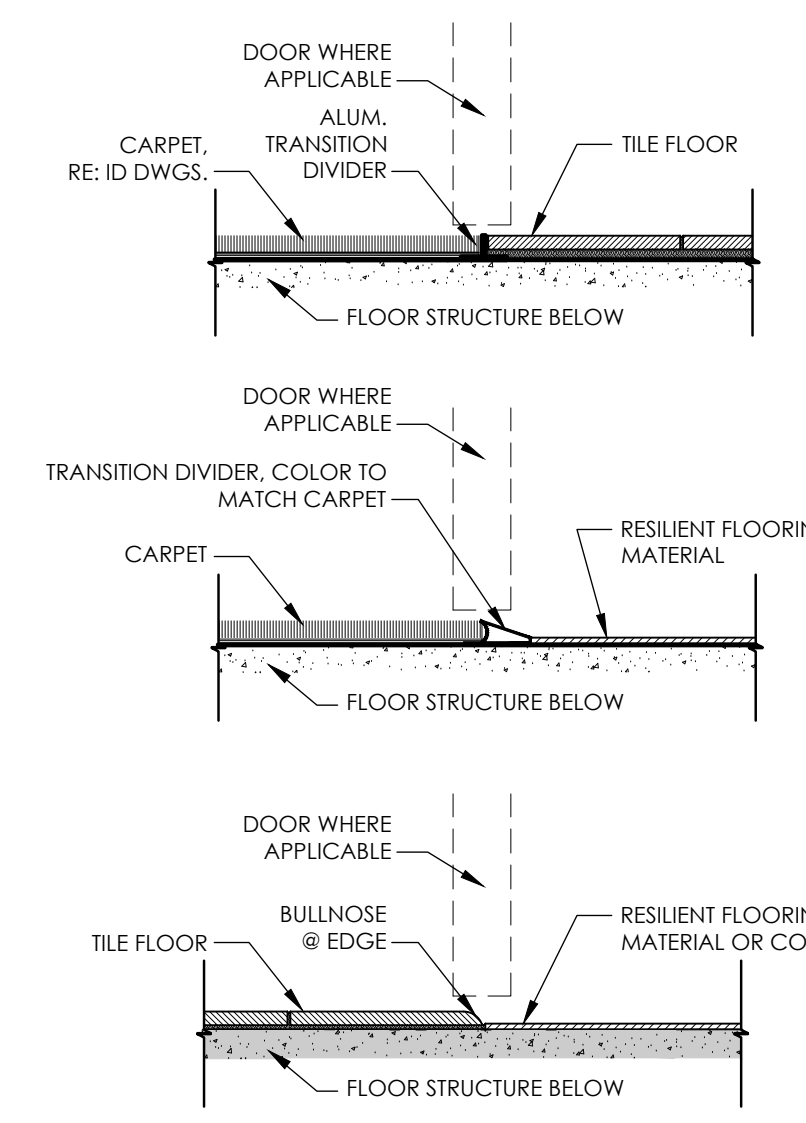
12 VANITY MIRROR
3/4" = 1'-0"



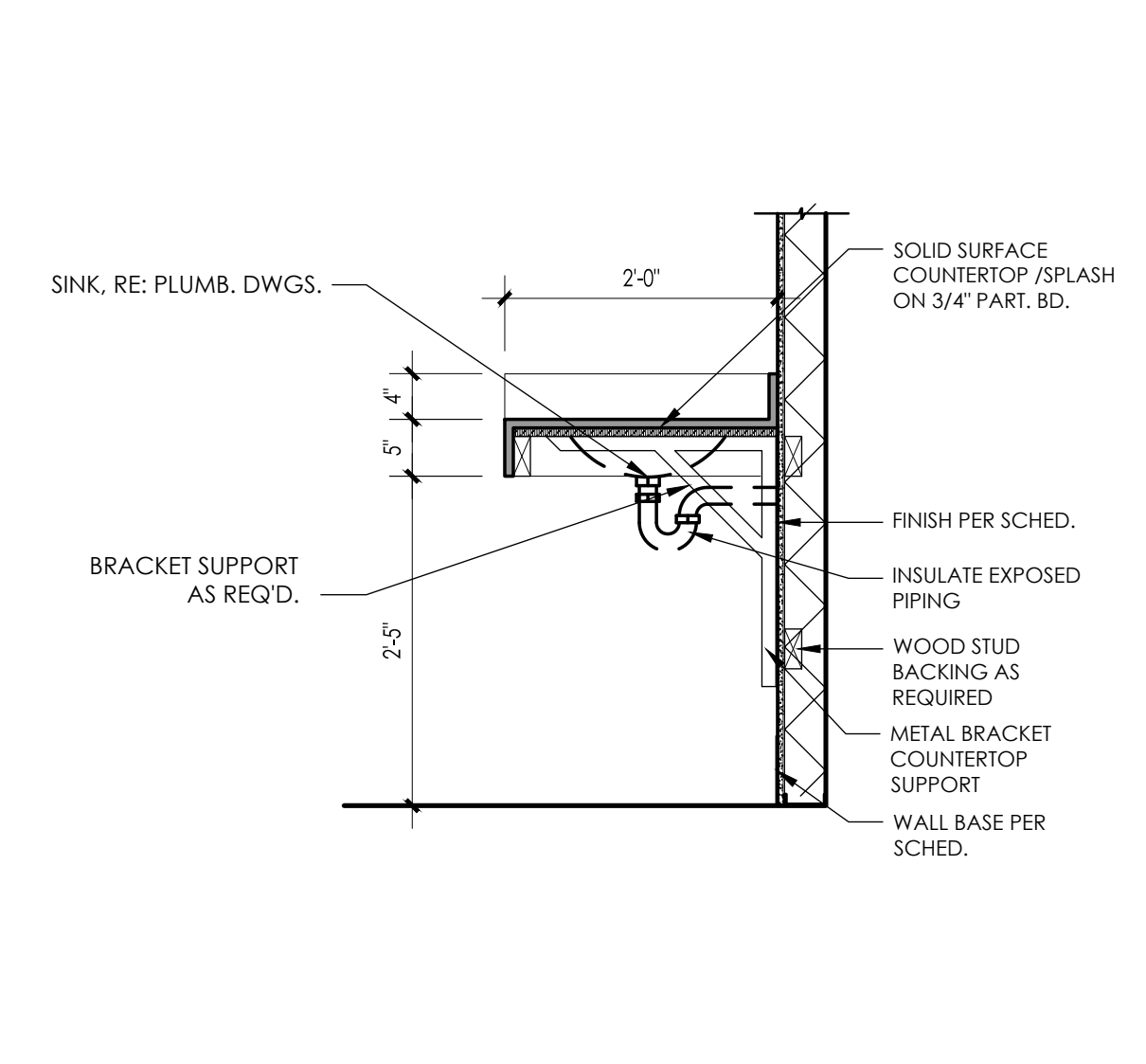
8 RECESSED FIRE EXTINGUISHER CABINET
3/4" = 1'-0"



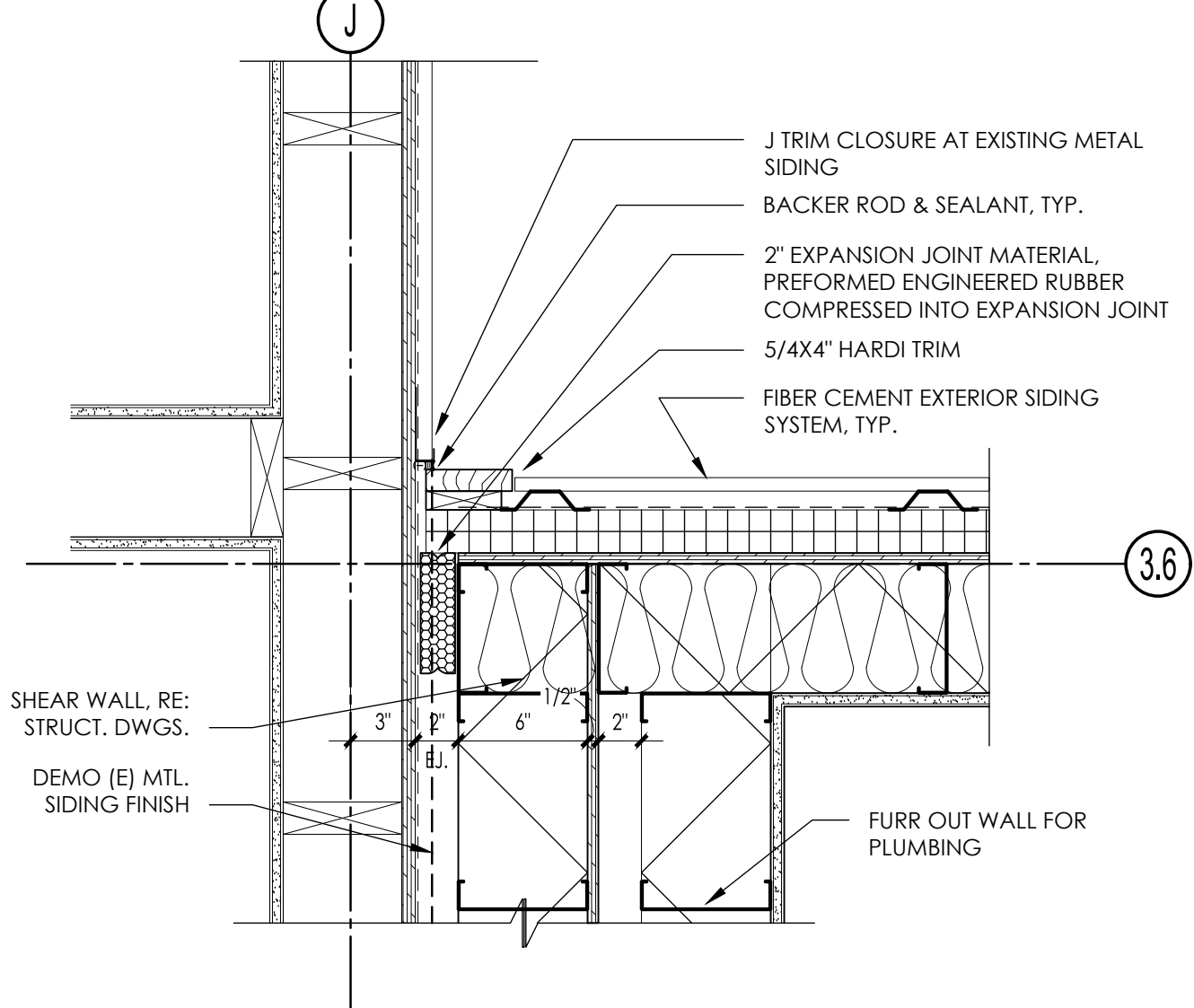
4 COLUMN DETAIL @ SIDING
1 1/2" = 1'-0"



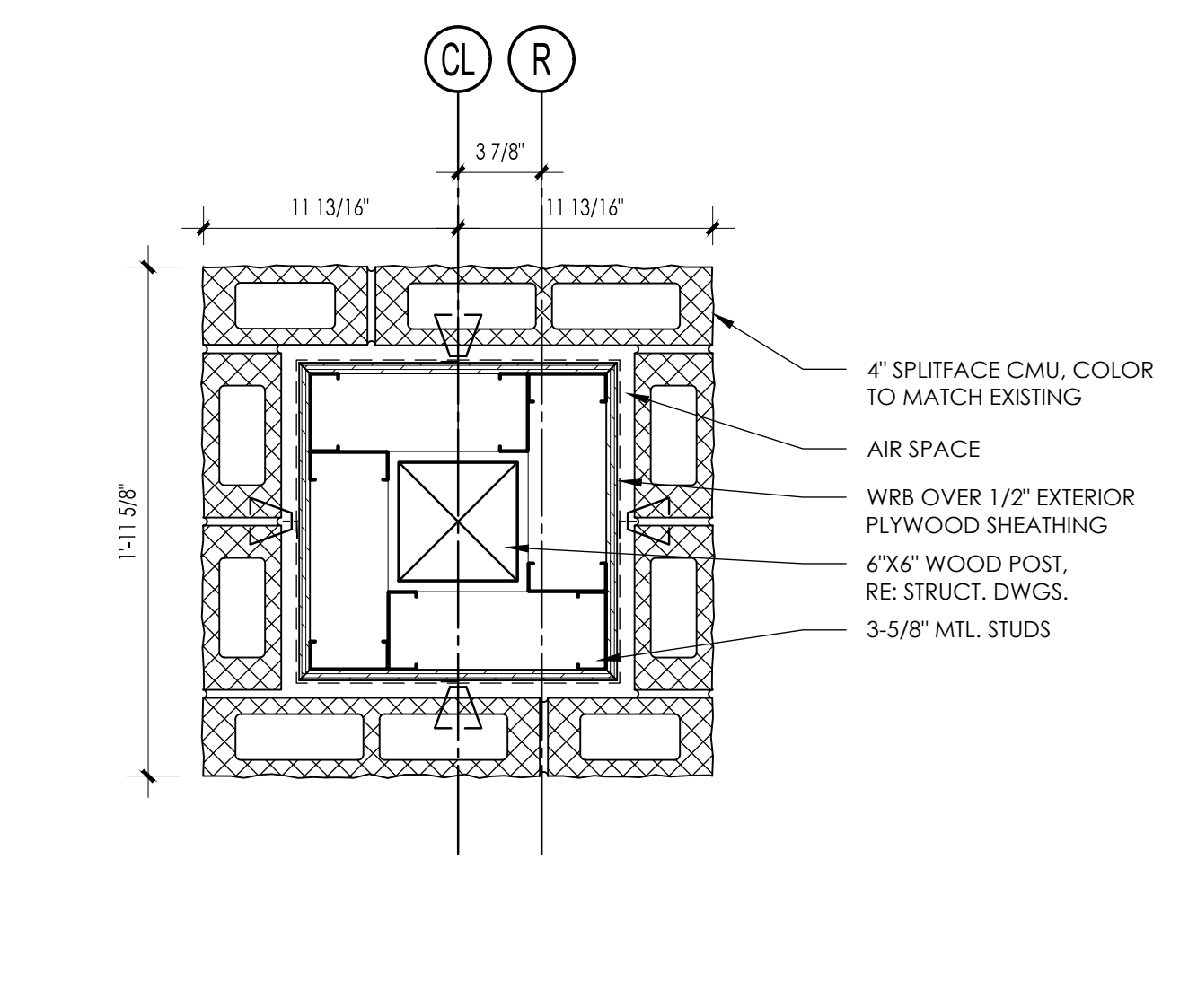
15 FLOOR TRANSITION
3" = 1'-0"



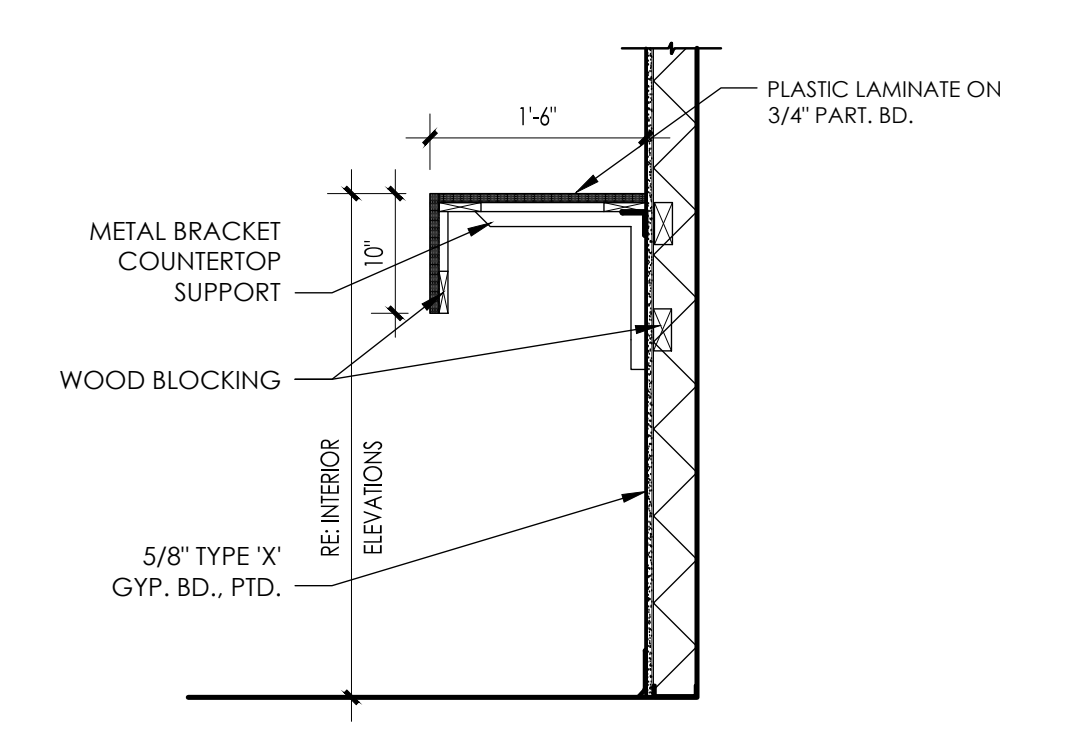
11 VANITY
3/4" = 1'-0"



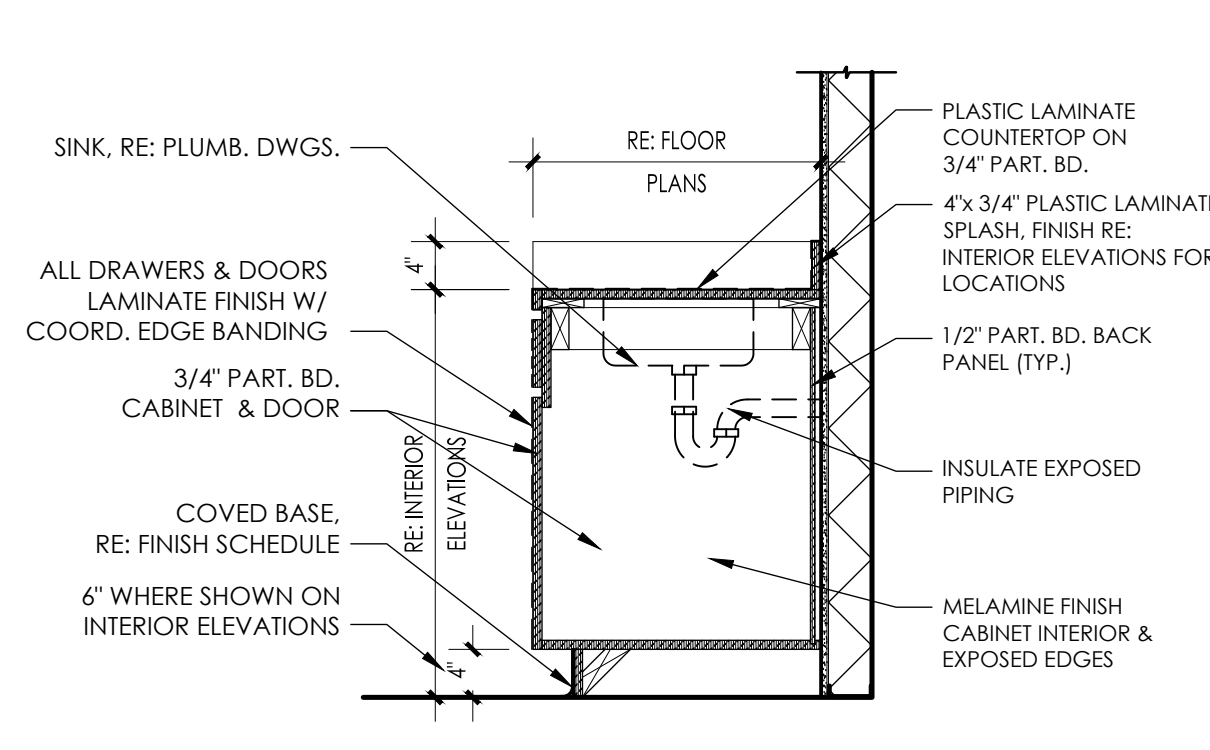
7 DETAIL @ EXPANSION JT. (MTL. SIDING)
1 1/2" = 1'-0"



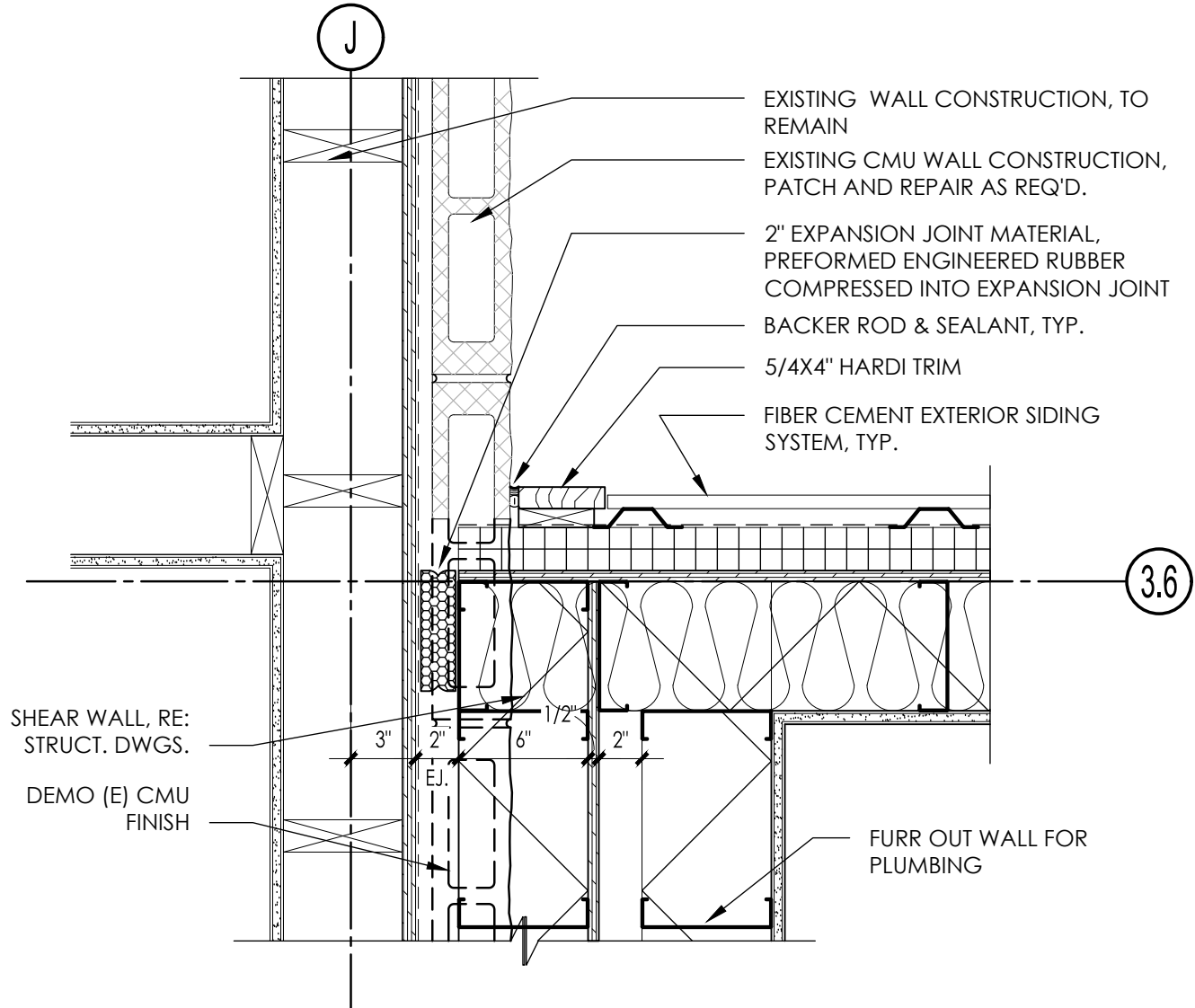
3 COLUMN DETAIL @ CMU
1 1/2" = 1'-0"



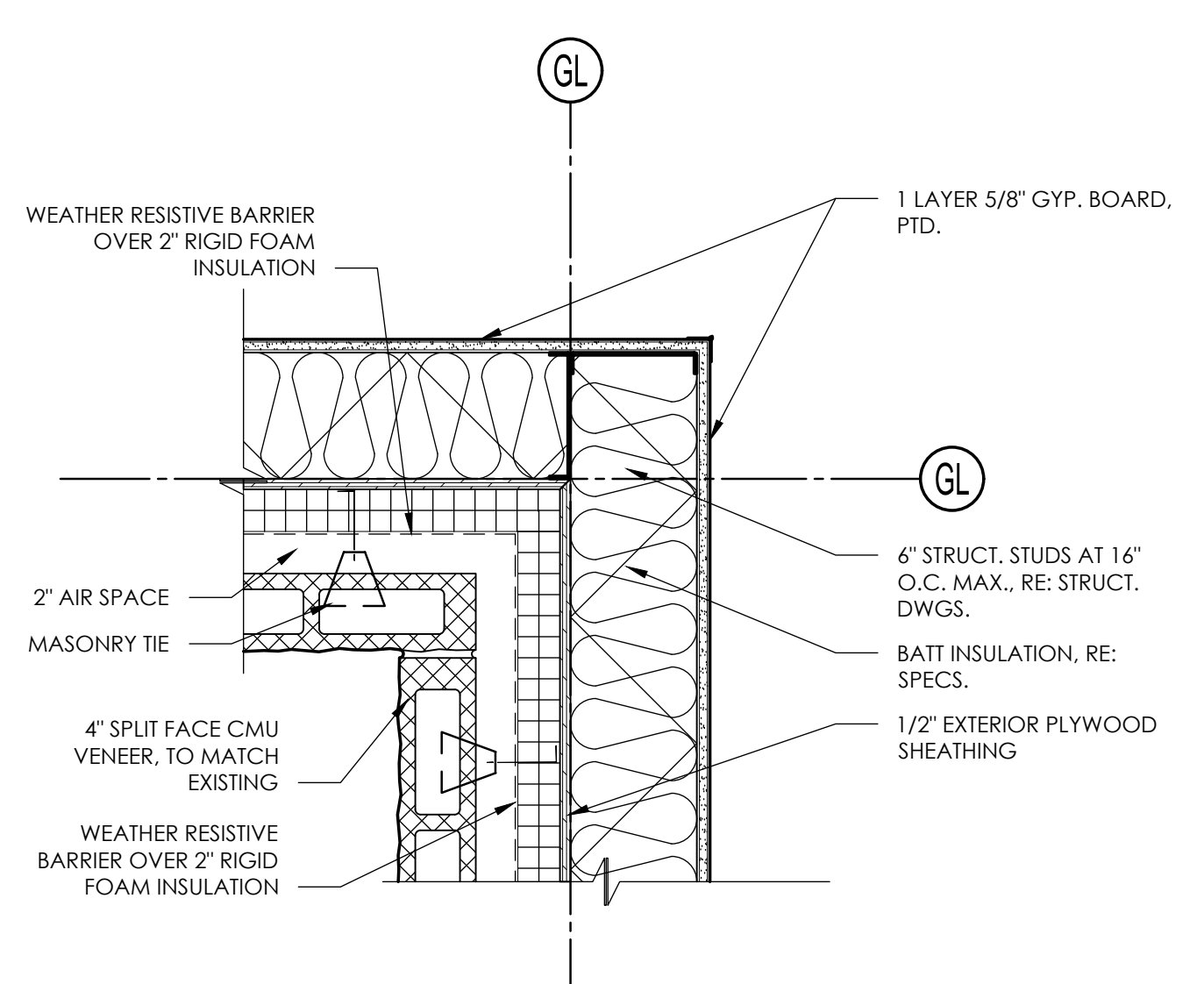
14 COUNTER SECTION
3/4" = 1'-0"



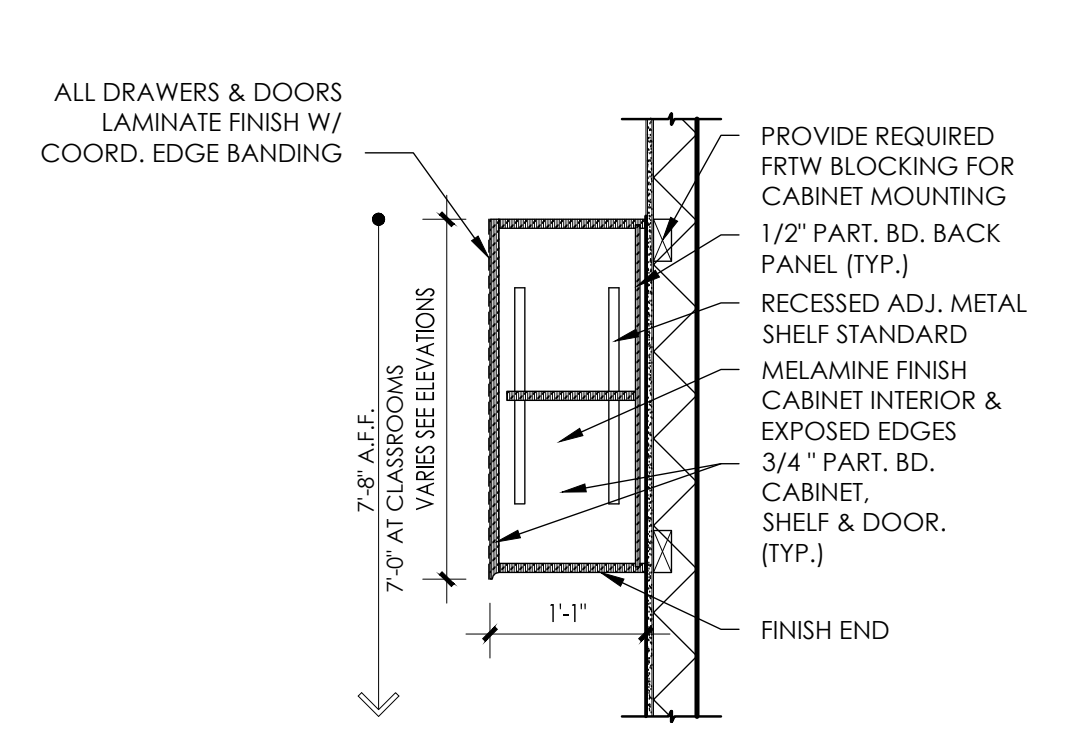
10 CABINET WITH SINK
3/4" = 1'-0"



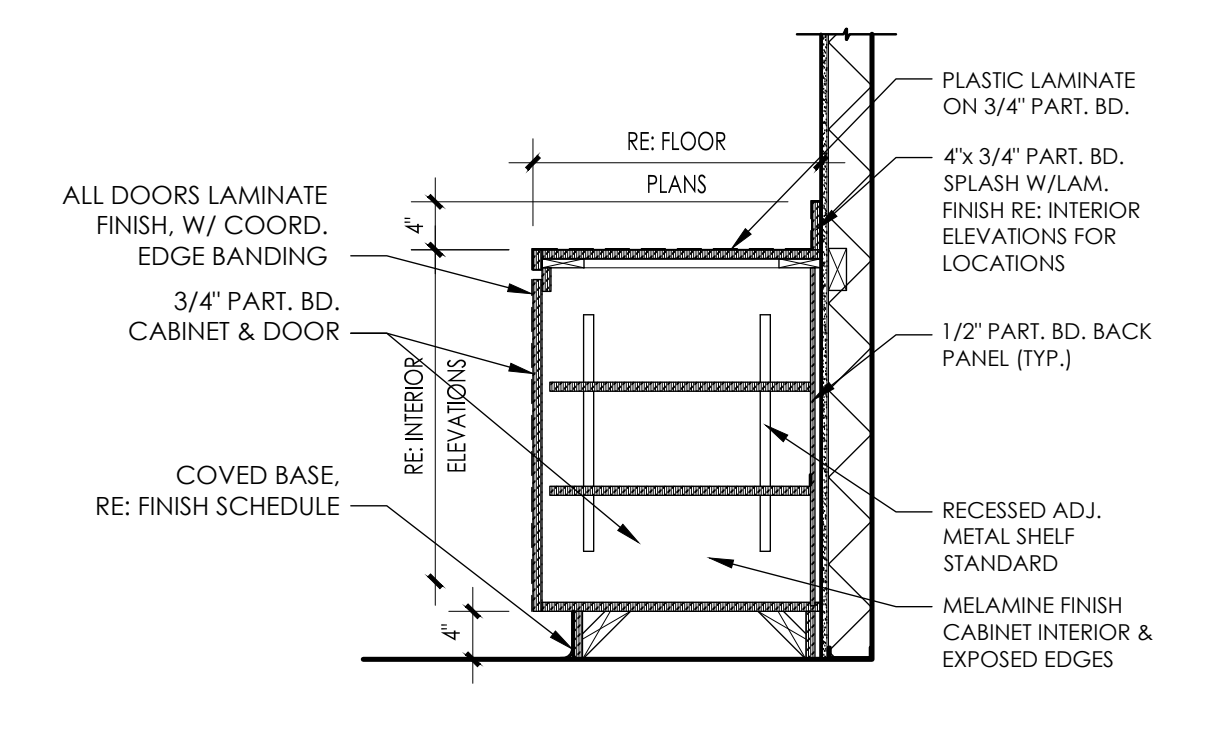
6 DETAIL @ EXPANSION JT. (CMU)
1 1/2" = 1'-0"



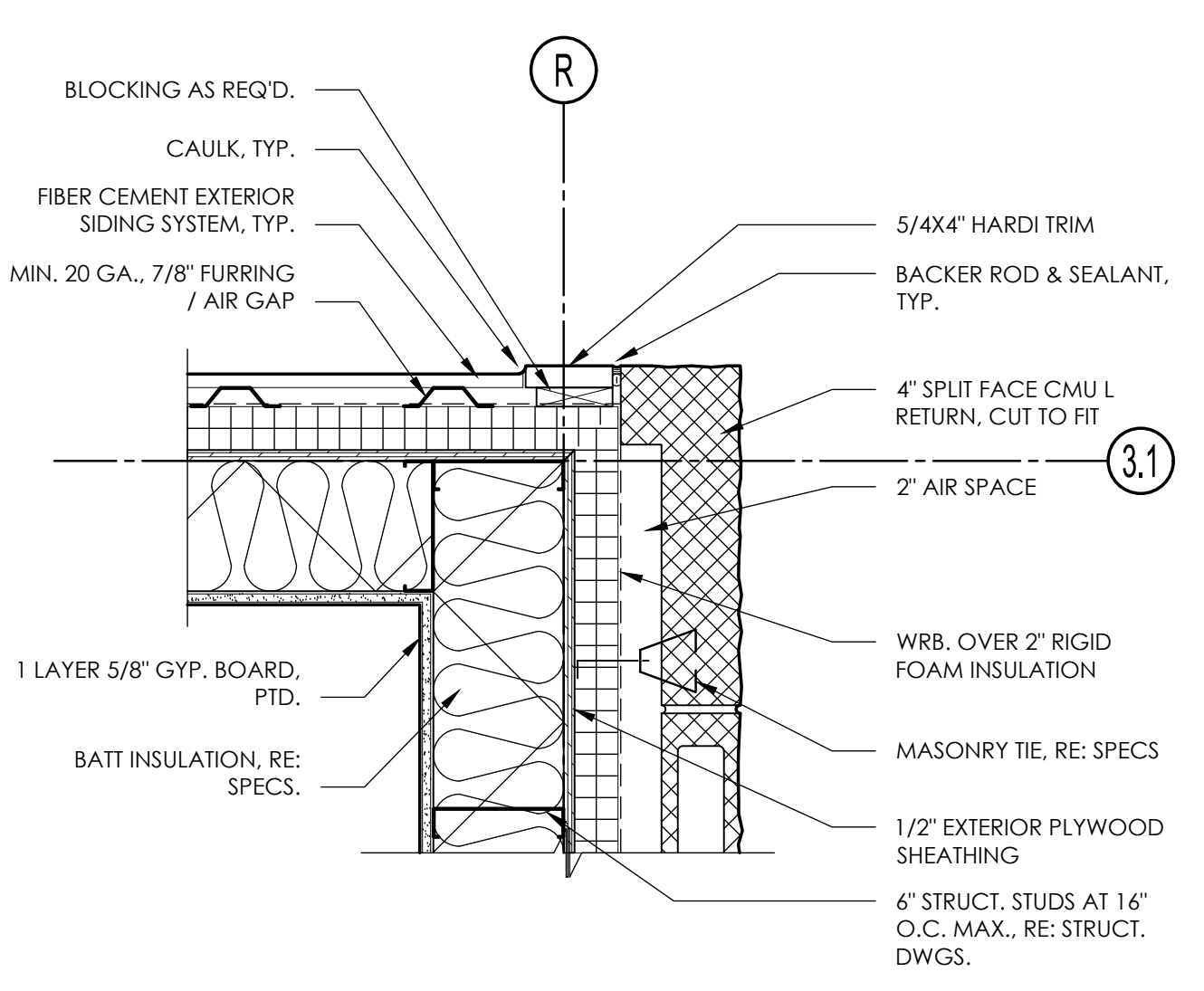
2 PLAN DETAIL
1 1/2" = 1'-0"



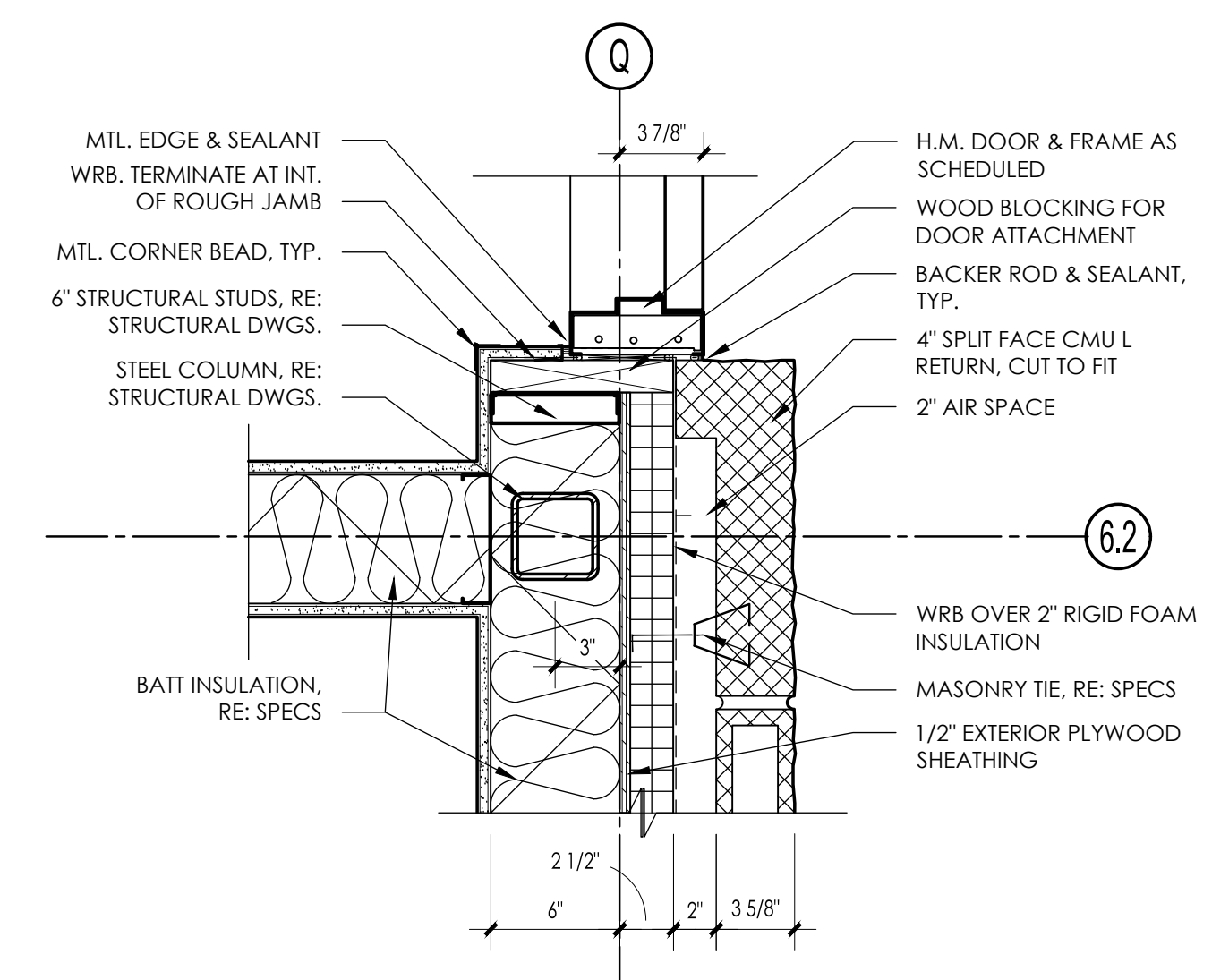
13 UPPER WALL CABINET (TALL)
3/4" = 1'-0"



9 BASE CABINET
3/4" = 1'-0"



5 PLAN DETAIL
1 1/2" = 1'-0"



1 H.M. DOOR JAMB @ CMU DETAIL
1 1/2" = 1'-0"



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Job No: 24010

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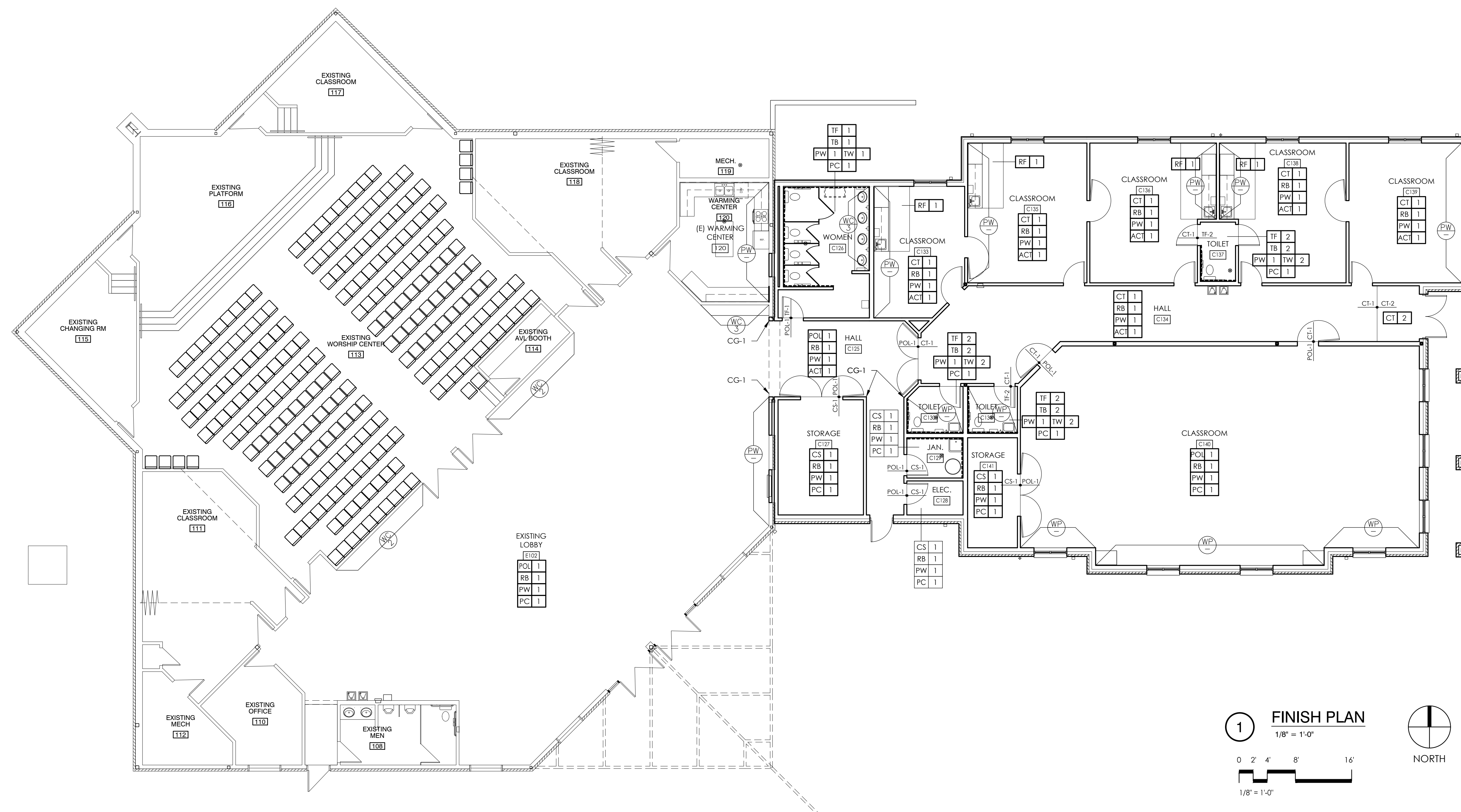
Date 11/18/2024

Drawn by Checked by
KC KC

Title

DETAILS

A810



GENERAL NOTES:

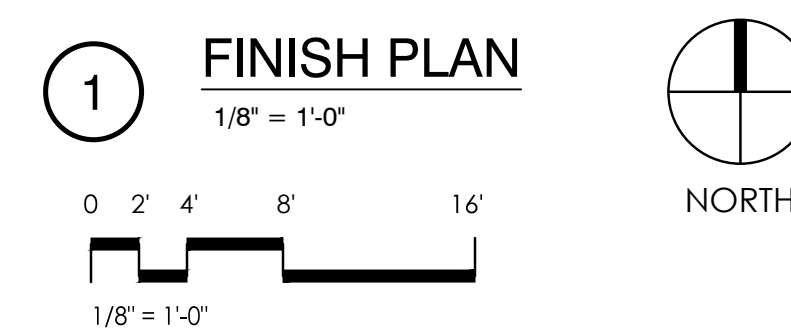
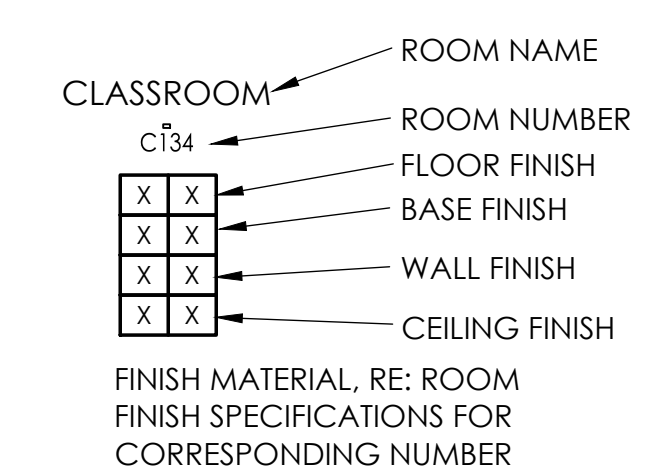
- FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
- ALL DRYWALL TO HAVE EGGSHELL FINISH EXCEPT SURFACES RECEIVING WALL COVERINGS.
- ALL CEILING HEIGHTS 9'-6" ABOVE FINISH FLOOR U.O.N.
- ALL GYPSUM BOARD TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SHALL BE TAPED, BEDDED, PRIMED AND TEXTURED WHERE NO OTHER WALL COVERING IS SPECIFIED. WALLS AND CEILING TO GET LEVEL "4" FINISH IN STORAGE, MECHANICAL AND ELECTRICAL ROOMS. DO NOT APPLY TEXTURE WHERE PROJECTION SCREENS WILL BE APPLIED. TEXTURE ADJACENT TO EXISTING WALLS & AT PATCH/REPAIR WORK, TO MATCH EXISTING. COORDINATE WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- ALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING AND PAINTING.
- NOTE: ALL FINISHES ARE TO BE APPROVED WITH OWNER PRIOR TO FINAL SUBMITTALS.
- CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/JUNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" (13mm) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR OR GROUND SURFACES AND SHALL HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH I.B.C. SECTION 303.
- ALL CEILING ACOUSTICAL TILE AND GRID SHALL BE ACT-1 U.O.N.
- ALL CARPET SHALL BE CT-1 U.O.N.
- ALL CONCRETE FLOORS SHALL RECEIVE CS-1 CONCRETE SEALER U.O.N.
- ALL GROUT SHALL BE GR-1 U.O.N.
- ALL WALL PAINT SHALL BE P-1 U.O.N.
- ACCENT PAINT COLORS WILL OCCUR ON ADDITIONAL WALLS IN MISCELLANEOUS AREAS THROUGHOUT THE BUILDING. EXACT LOCATIONS ARE NOTED.
- ALL CEILING GYP BD SHALL BE PAINTED P-7 U.O.N.
- ALL H.M. DOOR FRAMES, EXPOSED STEEL COLUMNS, STAIR STRINGERS, STAIR RISERS, GUARDRAILS, AND HANDRAILS SHALL BE PAINTED U.O.N.
- ALL PLASTIC LAMINATE SHALL BE PL-1 U.O.N.
- ALL WALL BASE SHALL BE RB-2 U.O.N.
- ALL WALL TILE SHALL BE T-1 U.O.N.
- SEE FINISH SPECIFICATIONS FOR TILE TRANSITION AND FLOORING TRANSITION TRIM SELECTIONS ("TT").
- REFER TO DRAWING A920 FOR CASEWORK DETAILS.
- FLOORING CONTRACTOR TO PROVIDE AND CONTINUE SCHEDULED FLOORING FROM PARTITION TO PARTITION AND UNDER MILLWORK UNLESS OTHERWISE NOTED.
- SEAM SEALER REQUIRED AT ALL CARPET SEAMS IN ACCORDANCE WITH THE CRI INSTALLATION INSTRUCTIONS.

PAINT ALL DOOR FRAMES, HM DOORS, RAILINGS, AND EXPOSED STEEL COLUMNS

ABBREVIATIONS:

- ACT = ACOUSTICAL TILE
- ALUM = ALUMINUM
- CONC = CONCRETE
- CG = CORNER GUARDS
- CT = CARPET TILES
- CS = CONCRETE SEALED
- ER = EXISTING TO REMAIN
- EM = ENTRANCE MAT
- EP = EPOXY FLOORING
- ES = EXPOSED STRUCTURE
- F = FABRIC
- FRP = FIBERGLASS REINFORCED PANEL
- PC = PAINT, CEILING
- PD = PAINT, DOOR FRAME
- PF = PREFINISHED
- PL = PLASTIC LAMINATE
- PS = PAINT, STEEL
- PW = PAINT, WALL
- RB = RESILIENT BASE
- RF = RESILIENT FLOORING
- SC = STAINED CONCRETE
- TB = TILE, BASE
- TF = TILE, FLOOR
- TW = TILE, WALL
- UF = UNFINISHED
- U/S = UNDERSIDE OF STRUCTURE
- VCT = VINYL COMPOSITION TILE
- WD = WOOD FINISH
- WS = WOOD STAIN

FINISH LEGEND:



FINISH SPECIFICATIONS

ACOUSTICAL CEILING TILE AND SUSPENSION GRID SYSTEM

ACT-1
MANUFACTURER: CERTANTEED, SYMPHONY m 80 Rx
PATTERN: REVEAL CORNER BEVEL EDGE
COLOR: WHITE
MAT SIZE: 24" X 48"
GRID: TRIM 15/16" WHITE GRID

CARPET

CT-1
MANUFACTURER: -
PATTERN: -
COLOR: -
CONSTRUCTION: -
SIZE: -
INSTALLATION: -
LOCATION: CLASSROOMS & CORRIDORS

CT-2

MANUFACTURER: -
PATTERN: -
COLOR: -
CONSTRUCTION: ENTRY MAT
SIZE: -
INSTALLATION: -
LOCATION: HALL C134

RESILIENT FLOORING

RF-1
MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
INSTALLATION: -
LOCATION: CLASSROOMS C132, C136

CONCRETE SEALED

CS-1
MANUFACTURER: SCOFIELD, CEMENTONE CLEAR SEALER
LOCATION: STORAGE 127, JAN C129, ELEC C128, STORAGE C141

CONCRETE POLISHED

CP-1
MANUFACTURER: CERT-SHINE
FINISH: MEDIUM REFLECTIVITY / SEMI POLISHED
COLOR: CLEAR
LOCATION: (E) LOBBY E102, HALL C125, CLASSROOM C140

TILE WALL

TW-1
MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
INSTALLATION: -
LOCATION: WOMEN'S RESTROOM C126, WALLS PER PLANS

TW-2
MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
INSTALLATION: -
LOCATION: TOILET ROOMS C130, C131, C137

TILE FLOOR

TF-1
MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
INSTALLATION: -
LOCATION: WOMEN'S RESTROOM C126

TF-2

MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
INSTALLATION: -
LOCATION: TOILET ROOMS C130, C131, C137

TILE BASE

TB-1
MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
LOCATION: FLAT TOP, COVE BASE
WOMEN'S RESTROOM C126

TB-2

MANUFACTURER: -
PATTERN: -
COLOR: -
SIZE: -
LOCATION: FLAT TOP, COVE BASE
TOILET ROOMS C130, C131, C137

TRANSITION TRIMS

TT-1
MANUFACTURER: SCHLUTER
PATTERN: JOLLY
COLOR: SATIN ANODIZED ALUMINUM
INSTALLATION: TOP & SIDE OF UNFINISHED EDGES OF TW-1 & TB-1

TT-2
MANUFACTURER: SCHLUTER
PATTERN: RENO-TK
COLOR: SATIN ANODIZED ALUMINUM
INSTALLATION: LVT TO CARPET, TILE TO CARPET

TT-3
MANUFACTURER: SCHLUTER
PATTERN: RENO-RAMP+K
COLOR: SATIN ANODIZED ALUMINUM
INSTALLATION: CARPET/TILE/LVT TO CONCRETE

CORNER GUARDS

CG-1
HALF-HEIGHT, STAINLESS STEEL CORNER GUARD, 1" WINGS

FRP (FIBERGLASS REINFORCED PANELS)

FRP-1
MANUFACTURER: MARLITE
COLOR: P151 LIGHT GRAY
HEIGHT: 4'-0"
LOCATION: JANITOR'S CLOSETS, INCLUDE ALL COORDINATING EDGE TRIM

GROUT

GR-1
MANUFACTURER: MAPEI
COLOR: -
SIZE: 1/8" GROUT JOINTS
LOCATION: FOR WALL TILE T-1

GR-2

MANUFACTURER: MAPEI
COLOR: -
SIZE: 1/8" GROUT JOINTS
LOCATION: FOR WALL/FLOOR TILE T-2

PAINT

PW-1
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: -
FINISH: EG-SHEL FINISH
LOCATION: FIELD

PW-2
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: -
FINISH: EG-SHEL FINISH
LOCATION: ACCENT

PW-3
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: -
FINISH: EG-SHEL FINISH
LOCATION: ACCENT

PW-4
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: -
FINISH: EG-SHEL FINISH
LOCATION: ACCENT

PC-1
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: SW7005 (255-C1), PURE WHITE
FINISH: FLAT FINISH
LOCATION: GYP. BOARD CEILINGS IN RESTROOMS

PD-1
MANUFACTURER: SHERWIN WILLIAMS
NUMBER/COLOR: -
FINISH: SEMI GLOSS FINISH
LOCATION: METAL DOORS & FRAMES

PLASTIC LAMINATE

PL-1
MANUFACTURER: -
COLOR: -
LOCATION: CABINET FRONTS

PL-2
MANUFACTURER: -
LOCATION: CLASSROOM, CHECK-IN COUNTER TOPS

RUBBER BASE

RB-1
MANUFACTURER: -
COLOR: -
SIZE: 4" HIGH, COVED
LOCATION: AT ALL CARPETS, CONCRETE & RF

SOLID SURFACE

SS-1
MANUFACTURER: WISLONART
COLOR: -
SIZE: 30"W X 144"L SLAB, 1/2" THICKNESS, PENCIL EDGES,
APRON FRONT
LOCATION: WOMEN'S RESTROOM C126

TOILET PARTITIONS

TP-1
MANUFACTURER: HADRIAN METAL PARTITIONS
COLOR: POWDER COATED, TBD
INSTALLATION: FLOOR MOUNT WITH HEADRAIL BRACING
LOCATION: RESTROOMS

PRE-FINISHED WOOD DOORS

MANUFACTURER: VT INDUSTRIES (OR EQUAL)
MATERIAL: FLUSH WOOD VENEER, SOLID CORE DOOR
SPECIES: SELECT WHITE BIRCH
COLOR: TBD

WALL COVERING

WC-1
MANUFACTURER: MDC
MATERIAL: VINYL
COLOR: TBD
LOCATION: KIDS CHECK-IN WALL AT LOBBY

WC-2

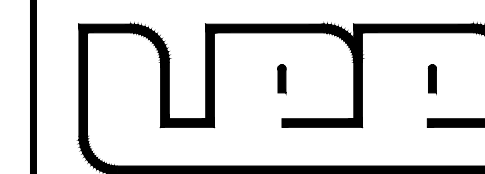
MANUFACTURER: NATIONAL
MATERIAL: VINYL
COLOR: TBD
LOCATION: ACCESS TO WORSHIP CENTER SIDE WALLS

WC-3

MANUFACTURER: KOROSEAL
MATERIAL: VINYL
COLOR: TBD
LOCATION: WOMEN'S RESTROOM C126



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**CREEKSIDE BIBLE CHURCH
RENOVATION & ADDITION**
 21801-25
 CASTLE ROCK, CO 80104



Job No: **24010**

Revisions / Submittals:
No. Date Description
1 11/18/2024 Permit Issue Set

Date 11/18/2024

Drawn by Checked by
KC KC

Title

**FINISH PLAN &
SPECIFICATIONS**

A900

GENERAL NOTES

DESIGN CRITERIA

- All work shall conform to the minimum standards of the International Building Code, 2021 edition and any other regulatory agencies that have authority over any portion of the work.
- Design Loads
 - Dead Loads
 - Roof total dead load 25 psf
 - Roof mechanical equipment actual weight
 - Roof Snow Load
 - Snow Criteria:
PI = 39, Ce = 0.9, Ct = 1.1, Is = 1.1
- Risk Category III
- Wind Criteria
 - 120 mph (3 second gust, Ultimate) 72 mph (ASD), Exposure C
 - Building Category = Enclosed
 - Internal Pressure Coefficient = ± 0.18

COMPONENTS AND CLADDING WIND PRESSURES ^{1,2}				
	Effective Area			
Zones ³	10 sf	20 sf	50 sf	100 sf
Zone 1 - Roof Interior	46 (28)	46 (28)	28 (17)	16 (10)
Zone 2 - Roof Edge	67 (40)	58 (35)	46 (28)	37 (23)
Zone 3 - Roof Corner	80 (48)	68 (41)	53 (32)	42 (26)
Zone 4 - Wall Typical	27 (16)	26 (16)	25 (15)	23 (14)
Zone 5 - Wall Corner	34 (21)	31 (19)	28 (17)	26 (16)
Parapet	NA	NA	NA	NA

Seismic Criteria

Site Class D, Design Category B, Equivalent Lateral Force Procedure
Seismic Force Resisting System = Light-frame walls sheathed with wood structural panels
R = 6.5, Fa = 1.6, Fv = 2.4, Ss = 0.215, S1 = 0.058, SDS = 0.229, SD1 = 0.093, Ie = III

Footnotes:

- Pressures shown are determined using ASCE 7-16 and are ultimate with ASD level pressures shown in parentheses.
- Refer to details for wind loading on miscellaneous rooftop structures, etc. Roof overhangs shall be sized and braced for review and approval six weeks prior to placing concrete in these structural elements.
- Refer to Figure 30.3-1 through 30.4-1 in ASCE 7-16 for description of each zone.

FIRE RESISTANCE RATINGS

- Building construction type: Type V-B
- Fire-resistance rating requirements for building elements:
 - Primary structural frame: 0 hour
 - Roof construction: 0 hour
 - Floor construction: 0 hour

SHOP DRAWINGS AND SUBMITTALS

- The Contractor shall coordinate, review and submit shop drawings that identify all penetrations for all trades through structural walls, slabs, beams, and columns. A single drawing of each portion of the structure identifying locations and sizes of all sleeves and blocks shall be submitted for review and approval six weeks prior to placing concrete in these structural elements. Penetrations not shown on the approved shop drawings will not be permitted in the field. Penetrations include all pipes, sleeves, conduits, blockouts, elements exceeding 1/3 the slab thickness, and other openings through concrete including slab-on-metal deck. Prior approval must be obtained from engineer for all coring of concrete and shall be reviewed on a case-by-case basis.
- Shop drawings and calculations for all informational and action submittals as noted in project specifications shall be submitted to the Architect/Engineer for approval prior to fabrication or construction of all structural items including the following: concrete and masonry reinforcement, embedded steel items, structural steel, metal decking, shear stud layout, stairs, pre-engineered wood and pre-engineered cold-formed steel. Approved shop drawings shall be submitted to the local Building Department by the contractor for record only. Allow 2 weeks for review of shop drawings.
- The general contractor shall submit any substitution request to the Architect/Engineer prior to making any changes. The request shall include all information required for the engineer to fully evaluate the substitution and determine any required compensation for the evaluation.
- Design materials and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the Owner, Architect/Engineer, and the applicable governing code authority.

SPECIAL INSPECTIONS

- Special inspection, in accordance with the International Building Code or as required by the construction documents, shall be performed by an approved agency.
- Any item that is a discrepancy by the independent testing agency shall be kept in a log by the General Contractor throughout the project, the log shall include the discrepancy number, date of discrepancy, and description of discrepancy. The General Contractor shall contact the engineer in a timely manner to address each discrepancy and keep a record of the required corrections. The letter of substantial completion provided by the engineer cannot be released until every item listed in the discrepancy log has been addressed and resolved.

CONSTRUCTION

- All omissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the Architect/Engineer before proceeding with any work so involved.
- A detail, section or elevation reference may be indicated only once on a structural construction drawing, but is to be used at all like and similar conditions. Typical and/or standard detail references may not be indicated on plan. Contractor is responsible for determining which details apply.
- No modification shall be made to any structural member without the approval of the Architect/Engineer. This also applies to any openings for plumbing, electrical, and mechanical trades.
- Contractor must check all dimensions, framing conditions, and site conditions before starting work. Architect/Engineer shall be notified immediately of any discrepancies or possible deficiencies.
- The structural drawings have been completed using the available information regarding existing conditions. The structural engineer has not field verified any existing conditions. It is the responsibility of the General Contractor to field verify the existing conditions and notify the architect and engineer of any discrepancies before proceeding with work.
- The Contractor shall be responsible for all excavation procedures and protection of adjacent property, structures, utilities, etc. in accordance with all national, state, and local ordinances.
- Stability of the structural frame during construction is the responsibility of the General Contractor. The structural frame is not complete until all connections to lateral force resisting elements have been made, inspected as required by the building official, and accepted by the engineer. This includes all diaphragm elements such as metal deck, plywood and gypsum board wall sheathing, metal straps, concrete topping, tie rods, and the like. All concrete elements must have reached their required strength. Temporary bracing of the structure during construction should be provided by the General Contractor and their Sub-Contractors as necessary.
- Do not place backfill against basement walls until basement and first floors are in place or wall has been adequately shored. Forces due to hydrostatic pressure have not been included in the design of foundation walls.
- All mechanical and electrical equipment purchases shall be coordinated with the structural drawings by the General Contractor. This includes equipment size, weight, openings, required support, etc. Any discrepancies shall be brought to the architect's and engineer's attention prior to equipment purchase.
- The contractor shall not stockpile any building materials or equipment in a manner that will exceed the load carrying capacity, cause damage, or create excessive deflection to any structural element. The contractor shall contact the engineer for evaluation of locations where it may be necessary for heavy equipment or building material stockpiles prior to placement of these items on any structural element.
- For any item that requires a change or correction due to contractor error or deficiency in construction, the contractor shall submit plans, details, and calculations for the proposed solution. These shall be reviewed by the Architect/Engineer prior to completion of the work. Some corrections may require submitted documentation to be stamped and signed by a professional engineer who is registered in the project jurisdiction.
- Nothing contained within the contract documents shall relieve the general contractor and the subcontractors of:
 - responsibility to determine any aspect of how the work is to be performed
 - dealing with matters of safety of personnel
 - safety of property
 - supervising of the work
 - construction means and methods

DEFERRED SUBMITTALS

The design of the following building components shall be treated as deferred submittals. All associated drawings and calculations shall be stamped and signed by the engineer responsible for their preparation. After review, the GC shall forward the deferred submittal documents to the Building Department. Deferred submittal items shall not be installed until their design and submittal documents have been approved by the building official.

- Wood roof trusses
- Rammed aggregate piers
- Miscellaneous prefabricated architectural elements (ie handrails)

SPREAD FOOTING FOUNDATIONS

DESIGN CRITERIA

- Foundation design is based upon owner's accepted recommendations for spread footings on rammed aggregate pier ground improvements as contained in the geotechnical report prepared by Ground Engineering, report number 24A-3566 dated July 11, 2024.
- The frost depth is 36 inches. All exterior foundations shall be deeper than this.
- Allowable bearing pressure used in design is 6,000 psf.
- Allowable bearing pressure used in design of load combinations involving wind or seismic forces is 8,000 psf.

CONSTRUCTION

- All foundation excavations, compaction, fill material, testing and inspection of foundation bearing strata shall be performed under supervision of a licensed Geotechnical Engineer. Inspections shall be performed prior to placement of reinforcement and pouring of concrete.
- Contractor shall provide for de-watering of excavations to remove water from any source prior to pouring concrete.
- Do not place concrete for foundation on frozen soil.

CONCRETE

DESIGN CRITERIA

- Concrete work shall conform to all requirements of the International Building Code and ACI 318, Building Code Requirements for Structural Concrete (latest approved editions).
- Prepare concrete mix designs for each type and strength of concrete, using either laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method is used, use an independent testing facility acceptable to Engineer for preparing and reporting of proposed mix design.
- Mechanical equipment (WWR) shall conform to each proposed mix design at least 15 days prior to start of work. Do not begin concrete production until Engineer has reviewed mix designs.

PRODUCTS AND MATERIALS

- Design mixes shall provide concrete with the following properties as indicated on drawings and schedules:

CONCRETE MIX MATRIX ^{1,2}						
Mix Type	Intended Use of Concrete	Compressive Strength ³	Maximum Aggregate Size	Exposure Class	Maximum CO ₂ e (kg/m ³) ⁴	Required Admixtures
A	Footings	3000 (56-day)	1"	F0 S0 W0 C0		
C	Interior slab-on-grade	3000psi (56-day)	3/4"	F0 S0 W0 C0		
D	Exterior slab-on-grade	4500psi (56-day)	3/4"	F3 S0 W1 C2		AEA ⁴

Footnotes:

- Normal weight concrete unless noted otherwise.
- Testing age is 28 days unless noted otherwise.
- Slump to be determined by Contractor and Mix Supplier with final approval by Engineer. Recommended slump of 8"-9" for drilled piers.
- Air entraining admixture.
- CO₂e content shall be documented by a product specific Type III Environmental Product Declaration for each unique mix design. Maximum CO₂e shall be achieved through use of accepted practices that might include but are not limited to approved blended cements (see below), supplemental cementitious materials such as fly ash, slag, or natural pozzolans, and injected carbon products or the like. Additive products shall be included in Concrete mix designs and shall include product information and qualified test data for review.
- Portland Cement shall conform to ASTM C150, Type I II. Blended Cements, if used, shall conform to ASTM C595 Type II, or ASTM C1157 (SU). Aggregate for normal weight concrete shall conform to all requirements and tests of ASTM C33. Aggregate for lightweight concrete shall conform to all requirements and tests of ASTM C330. Concrete mixing operations, etc., shall conform to ASTM C94 and ACI 304.
- Non-shrink grout shall conform to ASTM C1107.
- Water-reducing admixtures shall conform to ASTM C494, and be used in strict accordance with the manufacturer's recommendations. An air-entraining agent conforming to the ASTM C260 shall be used in all concrete mixes for work which is exposed to weather.
- Use accelerating admixtures in cold weather only when approved by Architect/Engineer. Use of admixtures will not relax cold weather placement requirements. Do not use calcium chloride. Use set-retarding admixtures during hot weather only when approved by Architect/Engineer.
- For concrete mix types with Exposure Class F3, supplementary cementitious materials shall have a maximum percentage of total cementitious materials by mass equal to 25% for fly ash or natural pozzolans per ASTM C618, 50% for slag cement per ASTM C959, 10% for silica fume per ASTM C1240, 35% for total of fly ash or natural pozzolans and silica fume, and 50% for total of fly ash or natural pozzolans, slag cement, and silica fume.

CONSTRUCTION

- Clear concrete coverage for reinforcing bars shall be as follows unless noted otherwise:
 - Concrete exposed to earth without forms: 3"
 - Concrete poured in forms but exposed to earth or weather:
 - #5 bars or smaller: 1 1/2"
 - Bars larger than #5: 2"
 - Concrete not exposed to earth or weather:
 - Slabs, walls and joists: 3/4"
 - Beams and column ties (principal reinf., ties and stirrups): 1 1/2"
- Control joints shall be provided in all slabs-on-grade at a maximum spacing of 10'-0" OC for 4" slabs and 12'-0" OC for 5" slabs, unless noted otherwise. Joints shall be 1/8" wide x (thickness/4)" deep continuous sawed joint or pre-molded joint. Joints shall be provided at all column centerlines, corners and ends of walls, re-entrant corners and any other areas with high crack potential. Proposed joint locations shall be submitted to the architect for approval prior to completion of work.
- Slabs, walls, footings and beams shall not have joints in a horizontal plane. Any stop in concrete work must be made at quarter point of span with vertical bulkheads and horizontal keys, unless otherwise shown. All construction joints shall be as detailed or as approved by the Engineer.

CONCRETE TOLERANCES

- Clear concrete coverage for reinforcing bars shall be as specified in ACI 117 and as follows:
 - Tops of walls and columns: -3/4", +0"
 - Plumbness: 1/4" in 10 feet, 1" maximum total
 - Plan alignment: 1/2" in 20 feet, 1" maximum total
 - Clearance of all dimensions: 1/4", +1/2"
 - Size and location of sleeves and blockouts: ±1/4"
 - Slab and beam soffits: 1/4" in 10 feet, 3/4" maximum total

CONDUITS, PIPES, AND SLEEVES

- Embedded conduits, pipes, and sleeves in concrete:
 - Any and all conduits, pipes, and sleeves embedded in structural concrete shall be shown in plan or thoroughly described in writing and provided to the Structural Engineer for written approval a minimum of six weeks prior to installation. See General Notes Shop Drawings and Submittals Item 1.
 - All blockouts in foundation walls and footings must be approved by the Structural Engineer prior to construction.
 - All embedded items shall be located so as to not impair the strength of the construction of the concrete member.
 - Contractor shall coordinate the installation of all embedded items and penetrations. Cost of additional reinforcement or where conduit is to be provided with Schedule 40 uncoated or galvanized steel pipe (ASTM 53) shall be borne by the contractor.
- Sleeves in concrete slabs:
 - Horizontal runs of conduits shall not be embedded in any slabs less than 7" thick or any slabs on metal deck.
 - For other conditions, proposed conduits less than or equal to 1 1/2" outside diameter shall conform to the following:
 - No embedding shall disrupt the placement of the reinforcing steel or PT tendons, where applicable.
 - The conduit shall be placed within the middle third of the slab thickness.
 - Parallel runs of conduits shall have a clear spacing of three times their outside diameter. No more than eight parallel conduit runs shall occur in a single bay. Conduit runs parallel to structural beams or walls shall be a minimum of 3'-0" away from the face of the member.
 - Conduits shall be installed without excess length and may only cross adjacent conduit one time within the middle third of the slab.
 - Conduits shall not be placed through a column or within 3'-0" of a column face and shall not run through a steel stud.
 - Conduits with an outside diameter greater than 1 1/2" are not permitted in the slab unless specifically approved by the Structural Engineer.
 - Sleeves of any size and vertical conduit penetrations of the slab are not permitted within 4 times the slab thickness from the face of a column unless specifically approved by the Structural Engineer.
- Concrete slabs on grade:
 - Horizontal conduit shall not be embedded within a slab on grade.
- Concrete columns:
 - Conduits shall not penetrate or be embedded in columns unless specifically approved by the Structural Engineer.
 - Conduits shall not be embedded horizontally in any wall, length wise.
 - Conduits shall not be embedded vertically in any wall less than 8" thick.
 - For other conditions, proposed conduits less than or equal to 1 1/2" outside diameter shall conform to the following:
 - No embedding shall disrupt the placement of the reinforcing steel.
 - The conduit shall be placed between vertical reinforcement layers. The conduit shall be placed in the middle third of the wall for single layer vertical reinforcement.
- Concrete beams:
 - Conduits shall not be embedded vertically or horizontally, length wise, in any beam.
 - All horizontal, width wise, sleeves in beams shall be submitted to the Engineer for written approval and if approved shall be installed with Schedule 40 uncoated or galvanized steel pipe (ASTM 53) sleeve.

ARCHITECTURAL REQUIREMENTS

- Provide 3/4" chamfers at all exposed corners.
- Refer to Architectural drawings for reveals, areas of textured concrete or special finishes, items required to be cast into the concrete, curbs and slab depressions.

CONCRETE PLACEMENT

- All concrete shall be consolidated by vibration, spading, rodding, or forcing so that concrete is thoroughly worked around all reinforcement and into corners of forms without segregation of materials.
 - <Delete if not required> All elements with a least dimension of <48"> or greater shall comply with the following temperature limits per ACI 301:
 - Maximum temperature in concrete after placement shall not exceed 160° F.
 - Maximum temperature differential between center and surface of placement shall not exceed 35° F.
- FORMWORK AND SHORING**
- The Contractor shall design all forms and supporting shores in conformance with ACI 347. Design shall include rate and method of placing concrete and construction loads, including vertical, horizontal, and impact loads. Forms shall be substantial and sufficiently tight to prevent leakage of mortar and properly braced or tied to maintain position and shape.
 - Forms shall be removed in such a manner as not to impair safety and serviceability of the structure. All concrete to be exposed by form removal shall have sufficient strength not to be damaged therefrom. Restore until 28 days after placement, and for full duration where construction loads exceed specified service loads. Reshoring shall conform to ACI 347. Reshoring required for 3 hours minimum.

MISCELLANEOUS

- Cracking of concrete slabs due to shrinkage is expected. The general contractor shall anticipate repairing cracks in all slabs within 72 hours of the parking levels. Rout and seal all cracks 0.01 inch wide and greater as described in the specifications.

REINFORCING STEEL

PRODUCTS AND MATERIALS

- Reinforcing steel shall conform to ASTM A615, Grade 60. Reinforcing to be welded or field bent shall be ASTM A706, Grade 60.
- Reinforcing to be welded or field bent shall be ASTM A706, Grade 60. Welding of reinforcing steel shall conform to AWS D1.4, using proper low hydrogen electrodes.
- Epoxy-coated reinforcing steel shall conform to ASTM A775 and shall be coated prior to fabrication.
- Welded wire reinforcement (WWR) shall conform to ASTM A1064, Fy=65 ksi. WWR must lap one full mesh plus 2" at side and end laps, but not less than 6" and shall be wired together. WWR shall be placed in the center of slabs-on-grade or in the center of the concrete thickness above the deck for slabs on form deck, unless noted otherwise.
- Structural shear reinforcing shall be made of Low Carbon Steel, C1015 in accordance with ASTM A1044, ASTM A36, and ASTM A29 with a minimum yield of 50,000 psi and a minimum tensile strength of 60,000 psi and a maximum 20% elongation in 2" as manufactured by Decon or Suncoast. The complete and finished structural shall be CBCO evaluated and all welding must take place in an ICC approved and audited facility.

SHOP DRAWINGS

- Detail reinforcing elements in accordance with the latest editions of the ACI Detailing Manual and ACI Building Code Requirements for Structural Concrete.

CONSTRUCTION

- Reinforcing Development and Splices
 - All bars in concrete shall be lapped a minimum of 36 bar diameters (2'-0" min.) at all splices. <OR> <All bars in concrete shall be lapped in accordance with the "Concrete Reinforcing Tension Lap Splice Length (Class B)" schedule provided in these drawings unless specifically noted otherwise.>
 - Extend and anchor all horizontal bars at corners and intersections to fully develop the bar. All top reinforcing shall terminate with standard hooks at ends of slabs, concrete joists, beams, walls, and foundations unless noted otherwise.
 - Continuous bars in walls, beams and grade beams shall be spliced as follows:
 - Top bars: at midspan
 - Bottom bars - over supports

REINFORCING AT OPENINGS

- Provide 2-#5 bars (1 each face) with 2'-0" projection around all openings greater than 10" in any dimension in concrete slabs and walls, unless noted otherwise.
- Provide 2-#5 bars at all reentrant and opening corners.

GENERAL REINFORCING REQUIREMENTS

- All reinforcing bar bends shall be made cold with a bar bender at the ACI 318 specified minimum radius. Do not use heated bars.
- Dowels for walls and columns shall be the same size and spacing as the wall/column reinforcing, unless noted otherwise.
- Cover bars shall be provided at each mat of horizontal wall reinforcing and shall match horizontal bar size and spacing.
- All stirrups shall have a minimum of 2-#4 horizontal reinforcing bars provided as spacers when no other horizontal reinforcing is provided.
- Provide all accessories necessary to support reinforcing at positions shown on the plan.

POST-INSTALLED ANCHORS AND REBAR

- Mechanical and adhesive anchors in concrete and masonry shall be as specified by the Structural Engineer.
- Doweling of deformed rebar into concrete shall be as specified by the Structural Engineer.
- All post-installed anchors shall meet ICC-ES E-1100, ICC-ES E-1101, ICC-ES E-1102, ICC-ES E-1103, ICC-ES E-1104, ICC-ES E-1105, ICC-ES E-1106, ICC-ES E-1107, ICC-ES E-1108, ICC-ES E-1109, ICC-ES E-1110, ICC-ES E-1111, ICC-ES E-1112, ICC-ES E-1113, ICC-ES E-1114, ICC-ES E-1115, ICC-ES E-1116, ICC-ES E-1117, ICC-ES E-1118, ICC-ES E-1119, ICC-ES E-1120, ICC-ES E-1121, ICC-ES E-1122, ICC-ES E-1123, ICC-ES E-1124, ICC-ES E-1125, ICC-ES E-1126, ICC-ES E-1127, ICC-ES E-1128, ICC-ES E-1129, ICC-ES E-1130, ICC-ES E-1131, ICC-ES E-1132, ICC-ES E-1133, ICC-ES E-1134, ICC-ES E-1135, ICC-ES E-1136, ICC-ES E-1137, ICC-ES E-1138, ICC-ES E-1139, ICC-ES E-1140, ICC-ES E-1141, ICC-ES E-1142, ICC-ES E-1143, ICC-ES E-1144, ICC-ES E-1145, ICC-ES E-1146, ICC-ES E-1147, ICC-ES E-1148, ICC-ES E-1149, ICC-ES E-1150, ICC-ES E-1151, ICC-ES E-1152, ICC-ES E-1153, ICC-ES E-1154, ICC-ES E-1155, ICC-ES E-1156, ICC-ES E-1157, ICC-ES E-1158, ICC-ES E-1159, ICC-ES E-1160, ICC-ES E-1161, ICC-ES E-1162, ICC-ES E-1163, 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COLD-FORMED STEEL FRAMING

PRODUCTS AND MATERIALS

- All metallic coated metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A1003, Grade 50, Type H. All metallic coated 16 gage tracks and heavier shall be formed from steel that corresponds to the requirements of ASTM A570 or A611, Grade 33.
- All metallic coated 18 gage studs and lighter, all painted track, bridging, end closures, and accessories shall be formed from steel that corresponds to the requirements of ASTM A1003, Grade 33, Type H.
- All galvanized metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A653, Grade 50. All galvanized 16 gage and heavier tracks shall be formed from steel that corresponds to the requirements of ASTM A653, Grade 33.
- All galvanized 18 gage studs and lighter, all painted track, bridging, end closures, and accessories shall be formed from steel that corresponds to the requirements of ASTM A653, Grade 33.
- All painted material and accessories shall be primed with rust inhibitive paint meeting the performance requirements specified by the Architect.
- Minimum effective section properties of metal studs shall be as shown in the current Steel Stud Manufacturer's Association (SSMA) Publication.

SHOP DRAWINGS

- Metal stud contractor shall submit structural calculations and drawings for all non-load bearing framing members and connections to the Engineer prior to fabrication.

CONSTRUCTION

- All corners shall be framed with a minimum of 3 studs of the same gage as wall studs, unless noted otherwise.
- Multiple studs shall be secured together with either #10 screws at 18" OC staggered or 1 1/2" of weld at each flange @18" OC.
- Load bearing studs shall be square cut and bear on both upper and lower tracks. Wall panels shall be precompressed or oversized track shall be provided (Clark Dietrich Paneltrak or similar). Proposed track shall be submitted to Architect/Engineer for approval. Maximum allowable gap is 1/8".
- Interior non-bearing partitions resting on slab-on-grade shall be provided with a slip joint at the top or bottom of the wall.
- Holes in studs are not allowed within 10" of the top or bottom of the stud. No punched holes are permitted in members used as beams.
- No holes shall be cut in structural studs, joists, or headers without written approval from structural engineer.
- Coordinate joist locations with plumbing and mechanical penetrations. Provide additional joists as required to maintain joist spacing.
- Joist webs shall be located directly above stud webs unless noted otherwise.
- Web stiffeners shall be constructed of unpunched studs or track, gage to match stud below, unless noted otherwise. No holes are allowed in web stiffeners.
- Splices in metal studs, joists, and headers will not be permitted.
- Do not bend or cut flanges of studs, joist or headers. Any damaged members shall be replaced.
- Provide bridging as required by the manufacturer's recommendations.
- Bracing straps shall be flat with no bows or splices. They shall be attached to all intermediate studs with 3- #10 screws.
- Touch up all welds with zinc-rich paint.

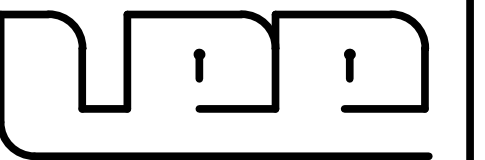
SYMBOL LEGEND

SYMBOL	DESCRIPTION
F#	FOOTING TYPE
	DRILLED PIER TYPE (MARK)
	TOP OF PIER
	PENETRATION INTO BEDROCK
	STEP TYPE:
TC	CONCRETE
BW	BOTTOM OF WALL
TF	TOP OF FOOTING
BL	BRICK LEDGE
	TOP OF SLAB / FLOOR
C#	CONCRETE COLUMN TYPE
or	
C# - XX"-XX"	
	INDICATES CAST-IN-PLACE CONCRETE WALL
	STRESSING END
	DISTANCE FROM BOTTOM OF SLAB TO CGS OF TENDON
	DEAD END TENDON QUANTITY
X	STUDRAIL TYPE ID
	STEEL COLUMN TYPE AND STARTING AND TERMINATING LEVEL OF COLUMN COLUMNS SPLICED 3'-0" ABOVE FINISH FLOOR. SEE DETAILS
TS -XXX'-XX"	TOP OF STEEL ELEVATION AT SLOPING STEEL
	MOMENT FRAME CONNECTION
	DRAG CONNECTION
	STEEL BRACED FRAME STARTING AT THIS LEVEL
	STEEL BRACED FRAME BELOW THIS LEVEL
	STEEL CHEVRON BRACED FRAME BELOW THIS LEVEL
	ADD'L END REINF
	BEARING WALL
	BEARING WALL BELOW
	SHEAR WALL
	SHEAR WALL TYPE AND EXTENTS. SEE PLANS AND SCHEDULE
	HDU CALLOUT -NUMBER ONLY
	SHEAR WALL BELOW
	INDICATES WOOD POST
	INDICATES WOOD POST BELOW
FH#	FLUSH HEADER
HP	DROPPED HEADER
RTU XXX#	MECHANICAL ROOF TOP UNIT AND WEIGHT

STANDARD ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT / ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
B	BOTTOM
BETW	BETWEEN
BF	BOTTOM OF FOOTING
BL	BRICK LEDGE
BLDG	BUILDING
BLKS	BLOCKING
BRG	BRACING
BW	BOTTOM OF WALL
CF/SC/PMF	COLD FORMED STEEL/COLD FORMED METAL FRAMING
CP	CAST-IN-PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DBS	DOWEL BAR SUBSTITUTE
DL	DEAD LOAD
DN	DOWN
DT	DRAG TRUSS
DWG	DRAWING
EA	EXISTING
EACH	EACH FACE
EJ	EACH FACE
EL	ELEVATION
ELEV	ELEVATOR
EQU	EQUAL
EQW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
(E)	EXISTING
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GET	CABLE END TRUSS
GL	GLULAM BEAM OR COLUMN
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HGT	HEIGHT
HT	HIP TRUSS
IBC	INTERNATIONAL BUILDING CODE
IF	INSIDE FACE
JT	JOINT
K	KIPS
LL	LIVE LOAD
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MR	MILD REINFORCING
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON-CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PEWRT	PRE-ENGINEERED WOOD ROOF TRUSS
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLYWD	PLYWOOD
PT	POST TENSION
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
RO	ROUGH OPENING
SCHED	SCHEDULE
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	STONE LEDGE
SLBB	SHORT LEGS BACK-TO-BACK
SOG	SLAB-ON-GRADE
SP	SPRINKLER
SPECS	SPECIFICATIONS
STD	STANDARD
STR	STIFFENER
STL	STRUCTURAL
SYM	SYMMETRICAL
TC	TOP OF CONCRETE
TF	TOP OF FOOTING
THK	THICKNESS
TL	TOP OF LEDGE
TM	TOP OF MASONRY
TP	TOP OF PLATE
TS	TOP OF STEEL
TW	TOP OF WALL
T&B	TOP AND BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VT	VALLEY TRUSS
W	WITH
WD	WOOD
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT
#	FOUNDS

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**CREEKSIDE BIBLE CHURCH
RENOVATION & ADDITION**
2180 I-25
CASTLE ROCK, CO 80104



Job No: 24010

Revisions / Submittals:

No.	Date	Description
1	11/18/2024	Permit Issue Set

Date 11/18/2024

Drawn by MAR Checked by JDB

Title SCHEDULES

S002

REQUIRED THIRD PARTY VERIFICATION AND INSPECTIONS FOR COLD-FORMED STEEL CONSTRUCTION - 2021 IBC				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. Pre-fabricated cold-formed steel structural elements and assemblies.	-	-	-	Sec. 1704.5
a. size, spacing	-	X	-	
b. connections and welds	-	X	-	
2. Site built assemblies	-	-	-	Sec. 1704.5
a. grade, size, spacing	-	X	-	
b. connections and welds	-	X	-	
c. blocking	-	X	-	
3. lateral system	-	-	-	Sec. 1704.13.3
a. member size at panel edges	-	X	-	
b. diaphragm and shearwall fastener diameter and length	-	X	-	
c. diaphragm and shearwall fastener spacing	-	X	-	

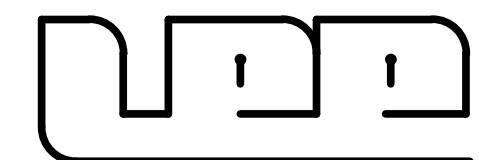
STATEMENT OF SPECIAL INSPECTIONS - 2021 IBC	
1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY A THIRD PARTY AGENCY EMPLOYED BY THE OWNER. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED AS REQUIRED IN CHAPTER 17 OF THE IBC AND BY THE ENGINEER OF RECORD. REQUIREMENTS ARE NOTED IN CHARTS PROVIDED ON THE CONSTRUCTION DOCUMENTS, AS WELL AS IN THE SPECIFICATIONS.	
2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.	
A. ALL SPECIAL INSPECTORS SHALL BE QUALIFIED TO INSPECT MATERIALS BASED ON CERTIFICATION, TRAINING OR EXPERIENCE AS REQUIRED, AND MUST MEET SPECIFICATION STANDARDS.	
3. SPECIAL INSPECTOR DUTIES:	
A. SPECIAL INSPECTOR SHALL REVIEW ALL WORK REQUIRED ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.	
B. SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE ENGINEER OF RECORD, ARCHITECT, CONTRACTOR, OWNER, AND BUILDING OFFICIAL ON A WEEKLY BASIS OR MORE FREQUENTLY. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, THEY SHALL BE REPORTED TO THE EOR.	
C. SPECIAL INSPECTOR SHALL KEEP A LOG OF ALL NON-COMPLIANCE ITEMS, INCLUDING THOSE NOTED ON STRUCTURAL OBSERVATION REPORTS.	
D. SPECIAL INSPECTOR SHALL REINSPECT ALL NON-COMPLIANCE ITEMS UPON REPAIR BY THE CONTRACTOR TO MEET THE CONSTRUCTION DOCUMENTS OR REPAIR BASED ON ENGINEER OF RECORD DIRECTIVES.	
E. SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT.	
F. SPECIAL INSPECTOR SHALL FURNISH A FINAL LETTER TO THE EOR AT THE COMPLETION OF THE PROJECT STATING THAT ALL INSPECTIONS HAVE BEEN COMPLETED AND ALL DISCREPANCIES HAVE BEEN RESOLVED.	
4. CONTRACTOR DUTIES:	
A. CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. THE STATEMENT SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.	
B. CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION A MINIMUM OF 24 HOURS BEFORE SUCH INSPECTION IS REQUIRED.	
C. ALL WORK, INCLUDING REPAIRS, SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.	
D. CONTRACTOR SHALL PROVIDE CURRENT DRAWINGS AND SPECIFICATIONS TO THE SPECIAL INSPECTOR. THIS INCLUDES ALL STRUCTURAL OBSERVATIONS, REPORTS, AND REPAIR DOCUMENTATION.	
E. ALL REPAIRS SHALL BE INSPECTED AT THE COST OF THE CONTRACTOR. NON-COMPLIANCE ITEMS SHALL BE RESOLVED IN A TIMELY MANNER.	

REQUIRED THIRD PARTY SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION - 2021 IBC				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. Reinforcing bar welding:	-	-	AWS D1.4 ACI 318: 26.6.4	-
a. Verify weldability of reinforcing bars other than ASTM A706.	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. Inspect single-pass fillet welds, maximum 5/16", and	-	X	AWS D1.4 ACI 318: 26.6.4	-
c. Inspect all other welds.	X	-	AWS D1.4 ACI 318: 26.6.4	-
3. Inspect anchors cast in concrete.	-	X	ACI 318: 17.8.2	-
4. Inspect anchors post-installed in hardened concrete members.	-	-	-	-
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	-	ACI 318: 17.8.2.4	-
b. Mechanical anchors and adhesive anchors not defined in 4.a.	-	X	ACI 318: 17.8.2	-
5. Verifying use of required design mix.	-	X	-	1904.1, 1904.2,
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 26.5	-
8. Verify maintenance of specified curing temperature and techniques.	-	X	ACI 318: 26.5.3-26.5.5	-
9. Inspect prestressed concrete for:	-	-	-	-
a. Application of prestressing forces, and	X	-	ACI 318: 26.10	-
b. Grouting of bonded prestressing tendons.	X	-	ACI 318: 26.10	-
10. Inspect erection of precast concrete members.	-	X	ACI 318: Ch. 26.9	-
11. For precast concrete diaphragm connections for reinforcement at joints classified as moderate or high deformability elements (MDE HDE) in structures assigned to Seismic Design Category C,D,E or F, inspect such connections and reinforcement in the field for:	-	-	ACI 318: Ch. 26.13.1.3	-
a. Installation of the embedded parts	X	-	ACI 550.5	-
b. Completion of the continuity of reinforcement across joints.	X	-	-	-
c. Completion of connections in the field	X	-	-	-
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5	-	X	ACI 318: 26.13.1.3	-
13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	X	ACI 318: 26.11.2	-
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 26.11.1.2 (b)	-

REQUIRED THIRD PARTY SPECIAL INSPECTIONS AND TESTS OF SOILS - 2021 IBC TABLE 1705.6		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of compacted fill materials.	-	X
4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	X

REQUIRED THIRD PARTY VERIFICATION AND INSPECTIONS FOR WOOD CONSTRUCTION - 2021 IBC	
VERIFICATION AND INSPECTION	PERIODIC
1. Pre-fabricated wood structural elements and assemblies.	X
a. grade, size, spacing	X
b. connections	X
c. restraint/bracing of depths ≥60 inches or lengths ≥60 feet	X
2. Site built assemblies.	
a. grade, size, spacing	X
b. connections	X
c. blocking	X
3. Wood diaphragms and shear walls.	
a. panel grade and thickness	X
b. member size at panel edges	X
c. fastener diameter and length	X
d. fastener spacing	X
e. check for overdrilling or overshooting of fasteners	X
4. Holdown hardware at shearwalls	
a. type, location	X
b. connections	X
c. post size and type	X
5. Steel straps at diaphragms	
a. type, length, location	X
b. connections	X
c. blocking	X

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CREEKSIDE BIBLE CHURCH
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Job No: 24010

Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date 11/18/2024

Drawn by MAR Checked by JDB

Title
INSPECTION SCHEDULES 2021 IBC

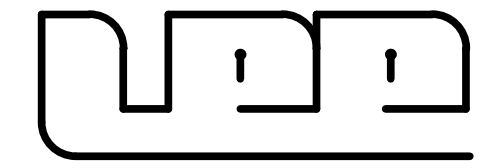
S003

**REQUIRED THIRD PARTY VERIFICATION AND INSPECTION
FOR STEEL CONSTRUCTION - 2021 IBC**

TASK	QUALITY CONTROL ^[1]	QUALITY ASSURANCE ^[2]	REFERENCED STANDARD
INSPECTION TASKS PRIOR TO WELDING			
Welder qualification records and continuity records	PR	Q ^[6]	AISC 360 TABLE N5.4-1
WPS available	P	P	AISC 360 TABLE N5.4-1
Manufacturer certifications for welding consumables available	P	P	AISC 360 TABLE N5.4-1
Material identification (type/grade)	O	O	AISC 360 TABLE N5.4-1
Welder identification system ^[3]	O	O	AISC 360 TABLE N5.4-1
Fit-up of groove welds (including joint geometry)	O	O	AISC 360 TABLE N5.4-1
Fit-up of CJP groove welds of HSS T-, Y- and K-joints without backing (including joint geometry)	P	O	AISC 360 TABLE N5.4-1
Configuration and finish of access holes	O	O	AISC 360 TABLE N5.4-1
Fit-up of fillet welds	O	O	AISC 360 TABLE N5.4-1
Check welding equipment	O	-	AISC 360 TABLE N5.4-1
INSPECTION TASKS DURING WELDING			
Control and handling of welding consumables	O	Q ^[6]	AISC 360 TABLE N5.4-2
No welding over cracked tack welds	O	O	AISC 360 TABLE N5.4-2
Environmental conditions	O	O	AISC 360 TABLE N5.4-2
WPS followed	O	O	AISC 360 TABLE N5.4-2
Welding techniques	O	O	AISC 360 TABLE N5.4-2
Placement and installation of steel headed stud anchors	PR	P	AISC 360 TABLE N5.4-2
INSPECTION TASKS AFTER WELDING			
Welds cleaned	O	Q ^[6]	AISC 360 TABLE N5.4-3
Size, length and location of welds	PR	P	AISC 360 TABLE N5.4-3
Welds meet visual acceptance criteria	P	P	AISC 360 TABLE N5.4-3
Arc strikes	P	P	AISC 360 TABLE N5.4-3
k-area ^[4]	P	P	AISC 360 TABLE N5.4-3
Weld access holes in rolled heavy shapes and built-up heavy shapes ^[5]	P	P	AISC 360 TABLE N5.4-3
Backing removed and weld tabs removed (if required)	P	P	AISC 360 TABLE N5.4-3
Repair activities	P	P	AISC 360 TABLE N5.4-3
Document acceptance or rejection of welded joint or member	P	P	AISC 360 TABLE N5.4-3
No prohibited welds have been added without the approval of the EOR	O	O	AISC 360 TABLE N5.4-3
INSPECTION TASKS PRIOR TO BOLTING			
Manufacturer's certifications available for fastener materials	O	P	AISC 360 TABLE N5.6-1
Fasteners marked in accordance with ASTM requirements	O	Q ^[6]	AISC 360 TABLE N5.6-1
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O	AISC 360 TABLE N5.6-1
Correct bolting procedure selected for joint detail	O	O	AISC 360 TABLE N5.6-1
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O	AISC 360 TABLE N5.6-1
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	PR	O	AISC 360 TABLE N5.6-1
Protected storage provided for bolts, nuts, washers and other fastener components	O	O	AISC 360 TABLE N5.6-1
INSPECTION TASKS DURING BOLTING			
Fastener assemblies placed in all holes and washers and nuts are positioned as required	O	Q ^[6]	AISC 360 TABLE N5.6-2
Joint brought to the snug-tight condition prior to the pretensioning operation	O	O	AISC 360 TABLE N5.6-2
Fastener component not turned by the wrench prevented from rotating	O	O	AISC 360 TABLE N5.6-2
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	O	O	AISC 360 TABLE N5.6-2
INSPECTION TASKS AFTER BOLTING			
Document acceptance or rejection of bolted connections	PR	P	AISC 360 TABLE N5.6-3

- NOTES:
1. QUALITY CONTROL (QC) AS SPECIFIED IN THIS CHAPTER SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) AS SPECIFIED IN THIS CHAPTER SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE, PURCHASER, OWNER OR ENGINEER OF RECORD (EOR).
3. OBSERVE(O); THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED TO BE DELAYED PENDING THESE INSPECTIONS.
4. PERFORM (P); THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER.
5. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE.
6. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" OF THE WELD.
7. AFTER ROLLED HEAVY SHAPES (PER AISC 360 SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (PER AISC 360 SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLES FOR CRACKS.

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Job No: 24010


Revisions / Submittals:		
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1	11/18/2024	Permit Issue Set

Date 11/18/2024

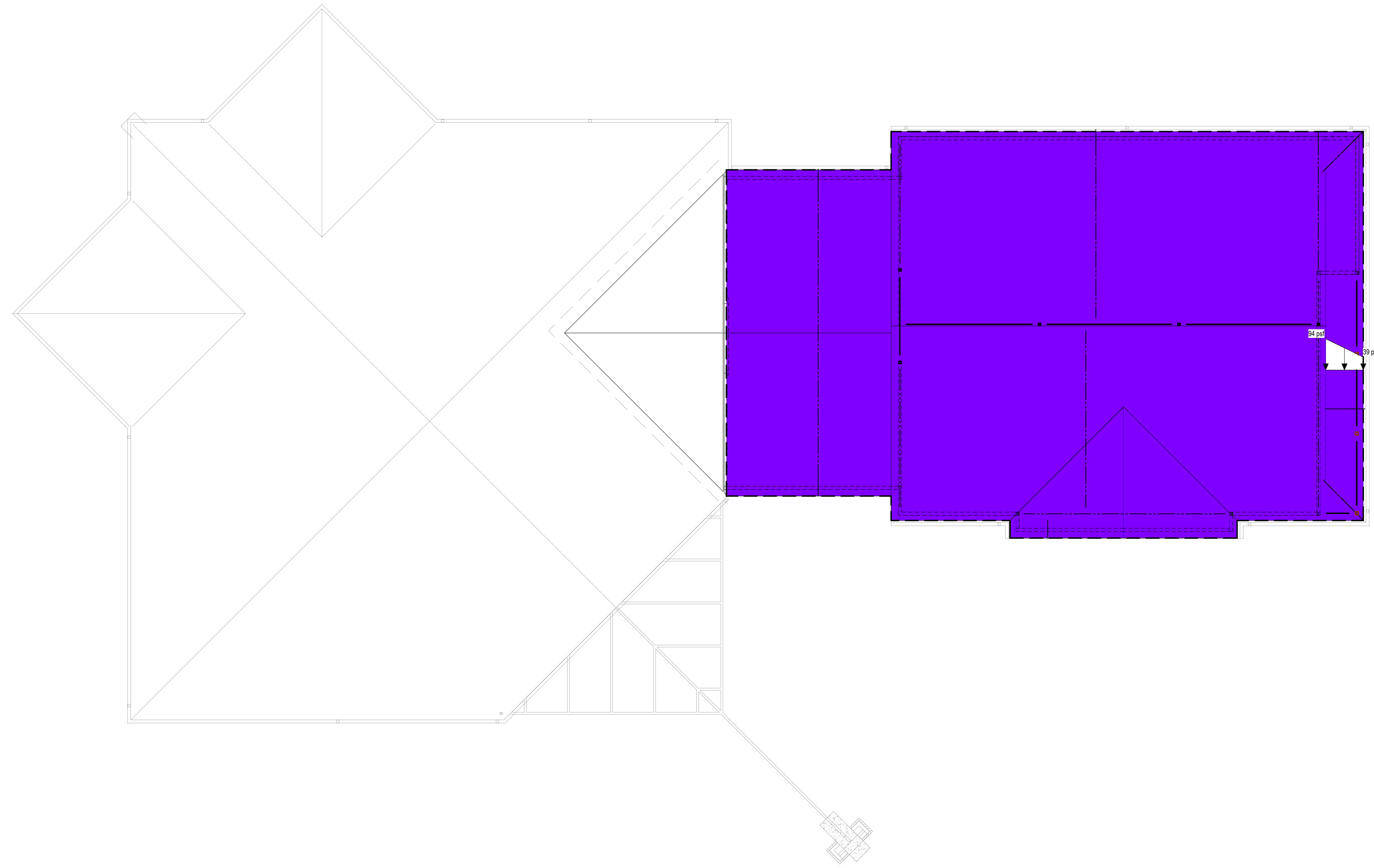
Drawn by MAR Checked by JDB

Title
INSPECTION
SCHEDULES 2021 IBC

S004

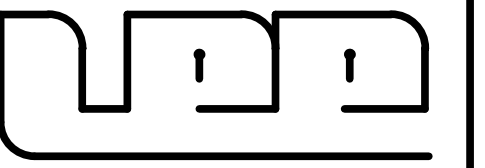
LOADING DIAGRAM SCHEDULE				
PATTERN	AREA	TOTAL DEAD LOAD	SNOW LOAD	NOTES
	ROOF	25 psf	39 psf SNOW (non-reducible)	WIND UPLIFT OF 15 PSF

NOTES:
1. ALL LIVE LOADS ARE REDUCIBLE UNLESS NOTED OTHERWISE.
2. SNOW DRIFT DIAGRAMS INCLUDE THE 39 psf BASE SNOW LOAD.
3. ALL OVERFRAMED AREAS SHALL INCLUDE AN ADDITIONAL 5 psf DEAD LOAD. SEE ROOF FRAMING PLANS.
4. TOTAL LOAD DEFLECTION LIMITS FOR FLOOR TRUSSES SHALL INCLUDE BOTH DEAD LOAD AND CREEP ALONG WITH LIVE LOAD. SEE GENERAL NOTES.



1 ROOF LOADING PLAN
3/32" = 1'-0"

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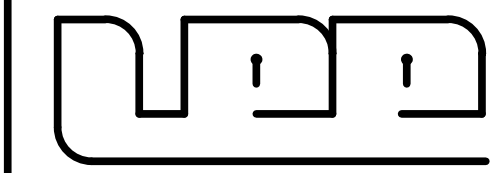
Title
LOADING PLAN

S005

KEYNOTES

- 3.11 CONTROL JOINTS AT ALL COLUMN LINES AND BALANCE OF SLAB NOT TO EXCEED 10'-0"OC EACH WAY. SEE SOILS REPORT.
- 3.12 DIAMOND SHAPED ISOLATION JOINTS AT ALL COLUMNS.

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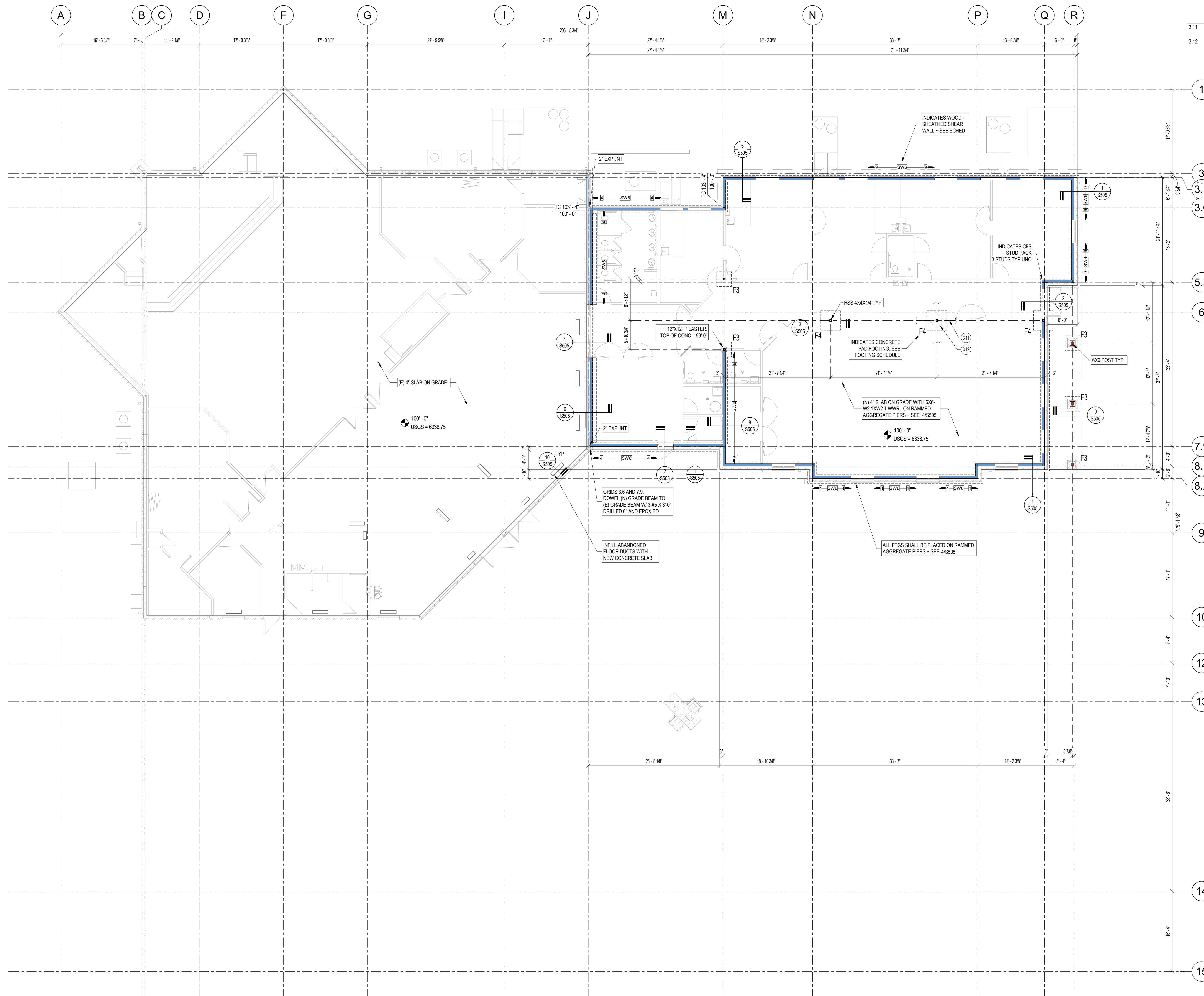
Date: 11/18/2024

Drawn by: MAR Checked by: JDB

Title: FOUNDATION PLAN

S100

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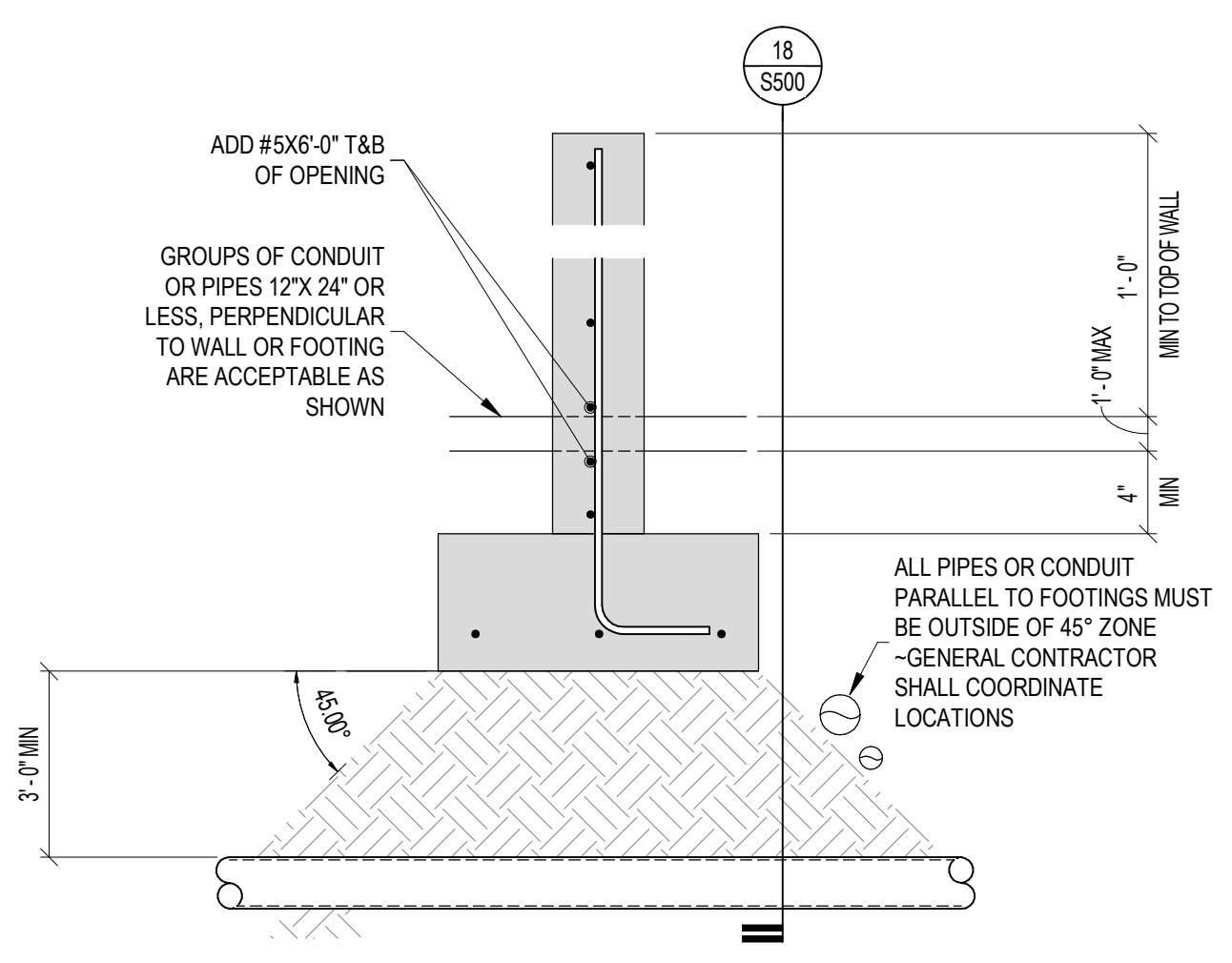
SPREAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING
F3	3'-0"	3'-0"	1'-0"	4-#5 EW B
F4	4'-0"	4'-0"	1'-0"	5-#5 EW B

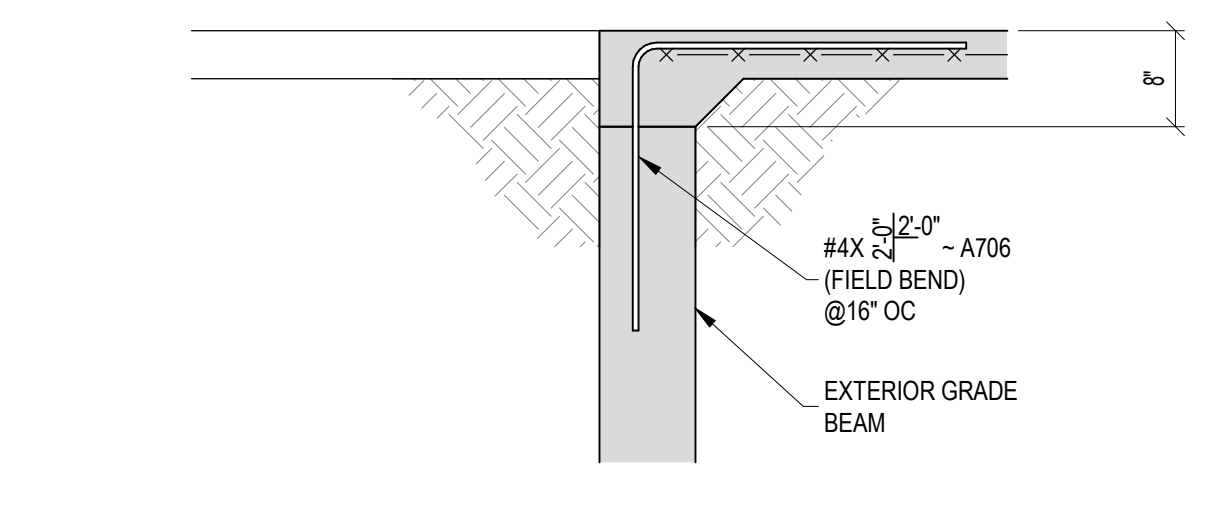
1 FOUNDATION PLAN
 1/8" = 1'-0"



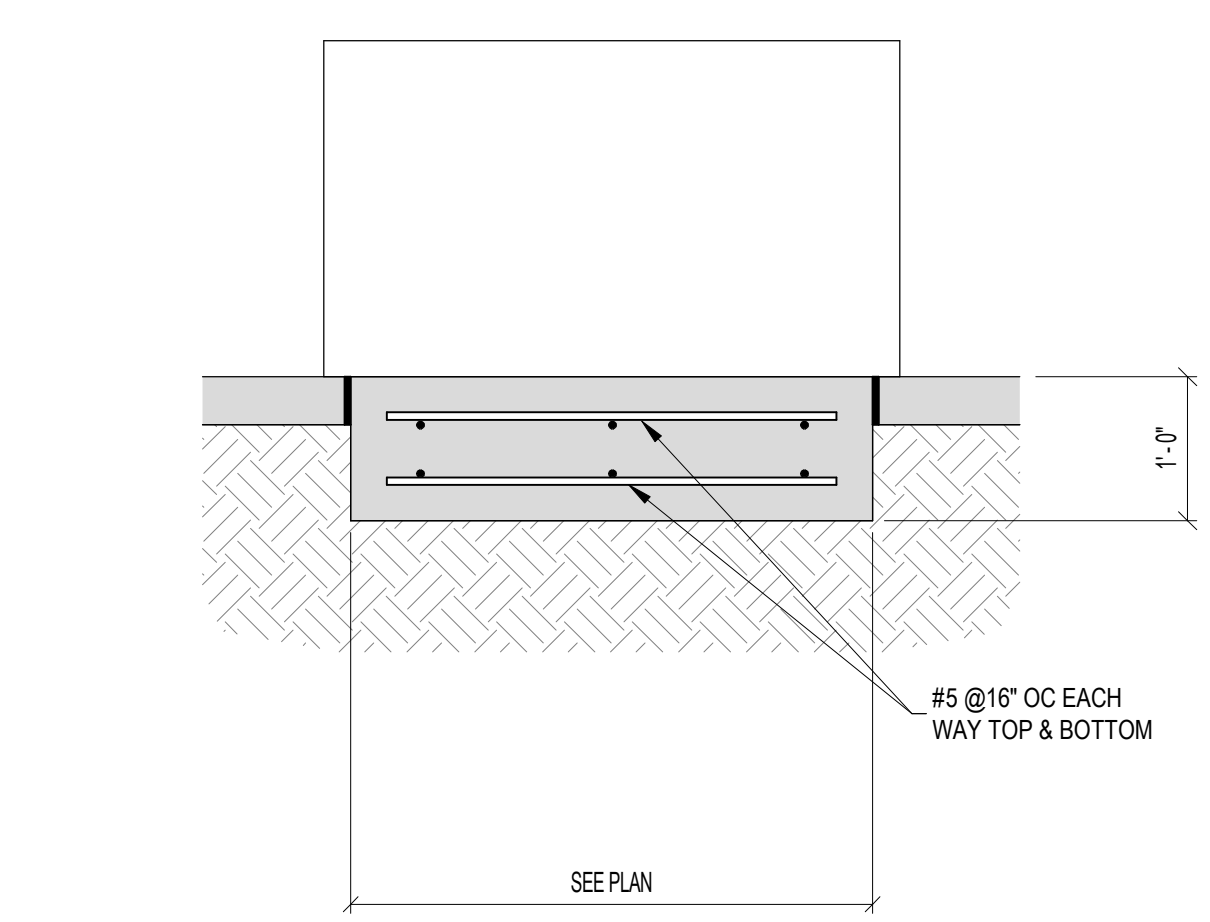
BOXED NOTES INDICATE A TYPICAL CONDITION EXISTS UNLESS NOTED OTHERWISE
WELDS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE



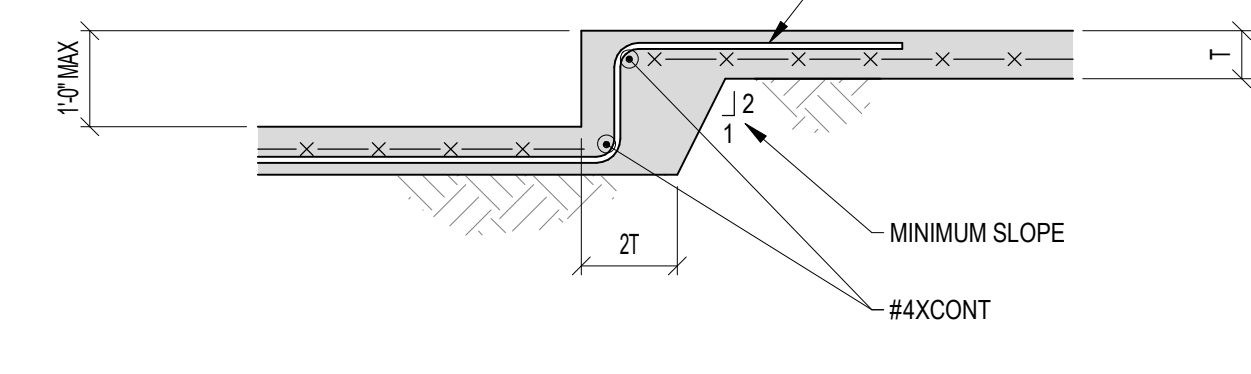
17 PIPE/CONDUIT ADJACENT TO FOOTINGS
3/4" = 1'-0"



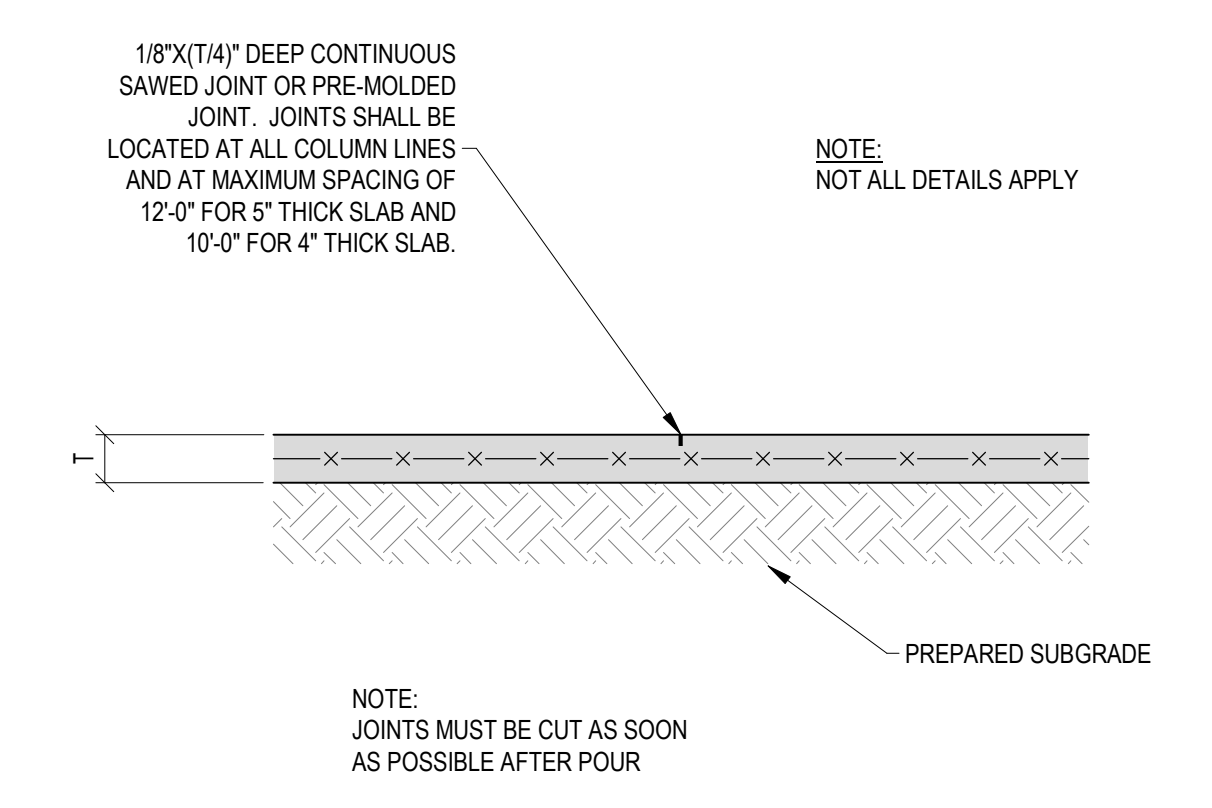
13 THRESHOLD
3/4" = 1'-0"



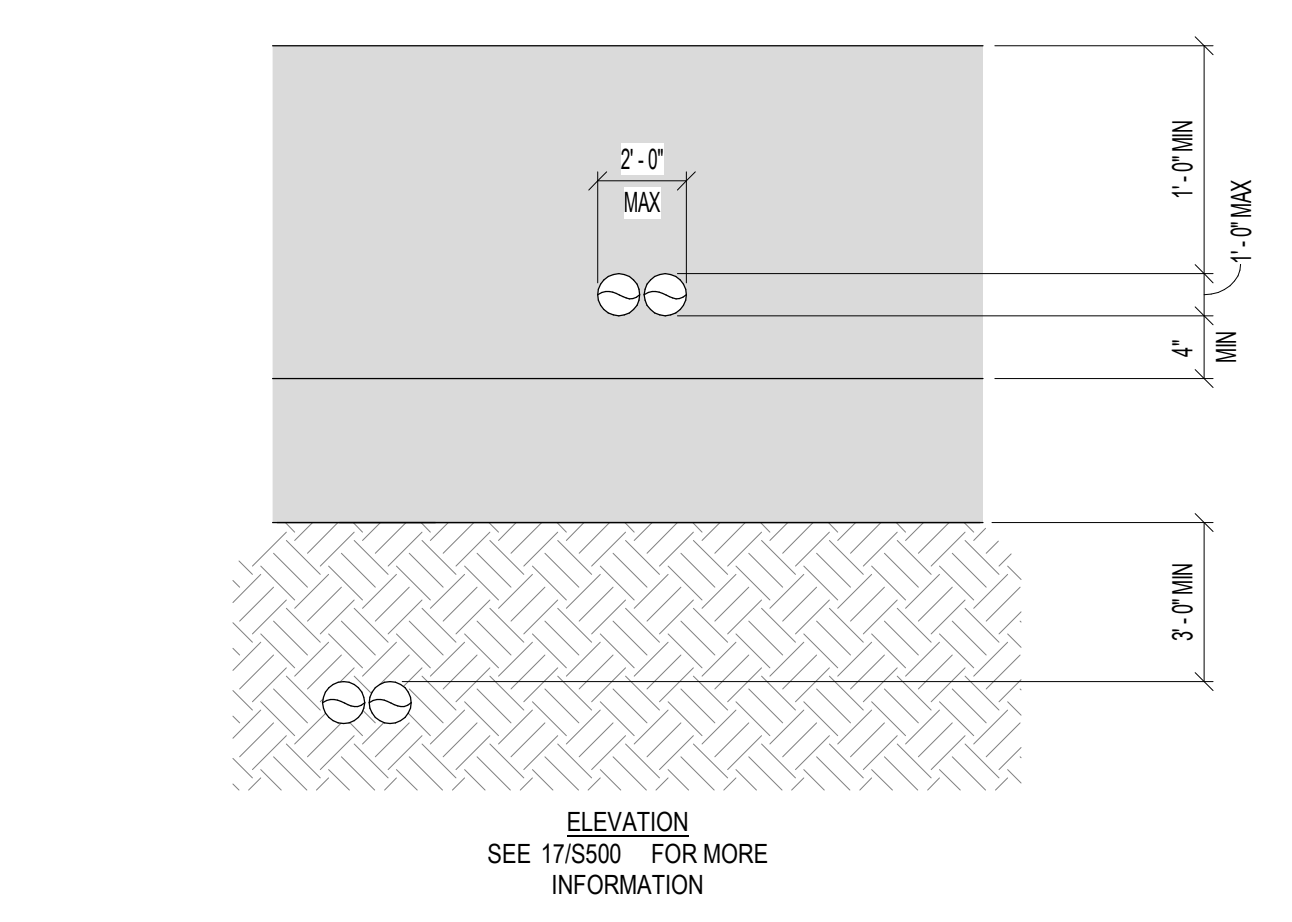
9 EQUIPMENT PADS / FIREPLACE FOOTING
3/4" = 1'-0"



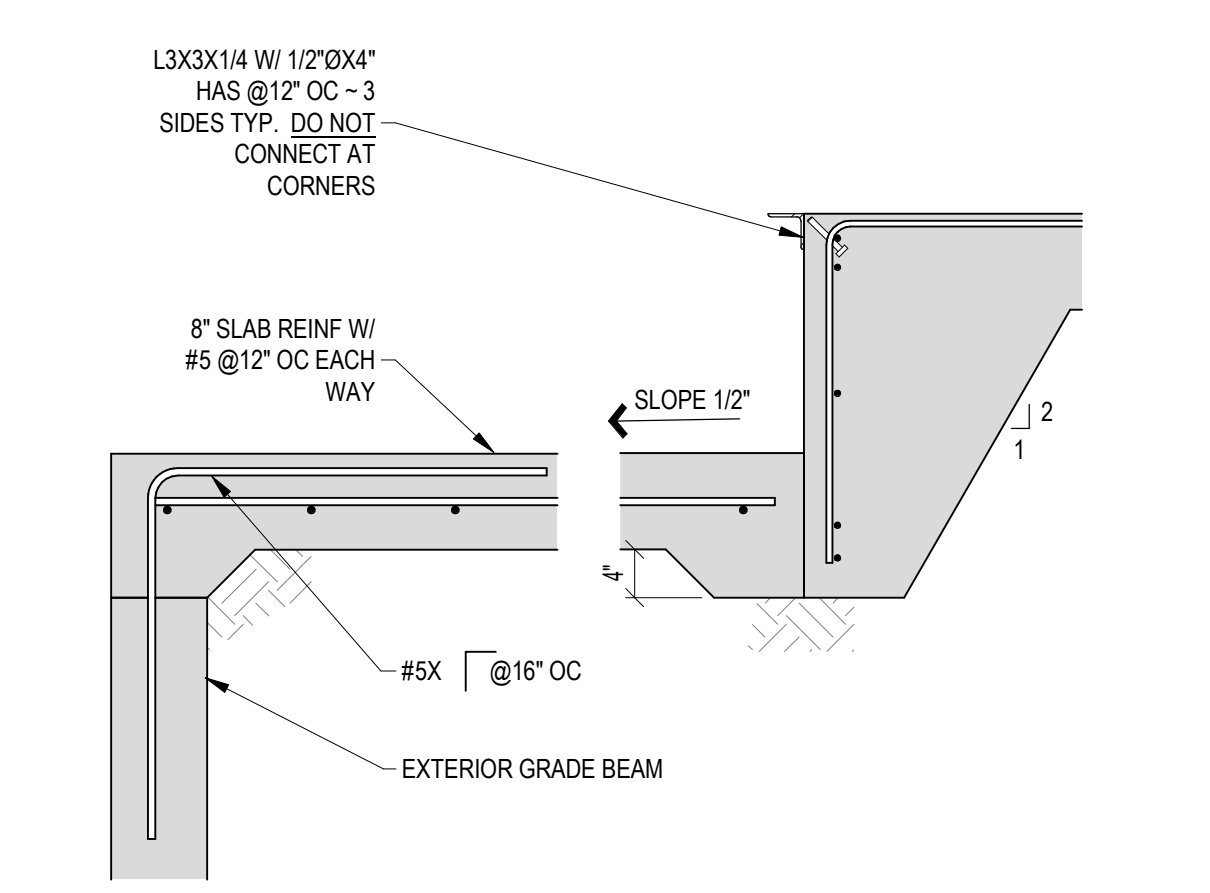
5 SMALL SLAB STEP
3/4" = 1'-0"



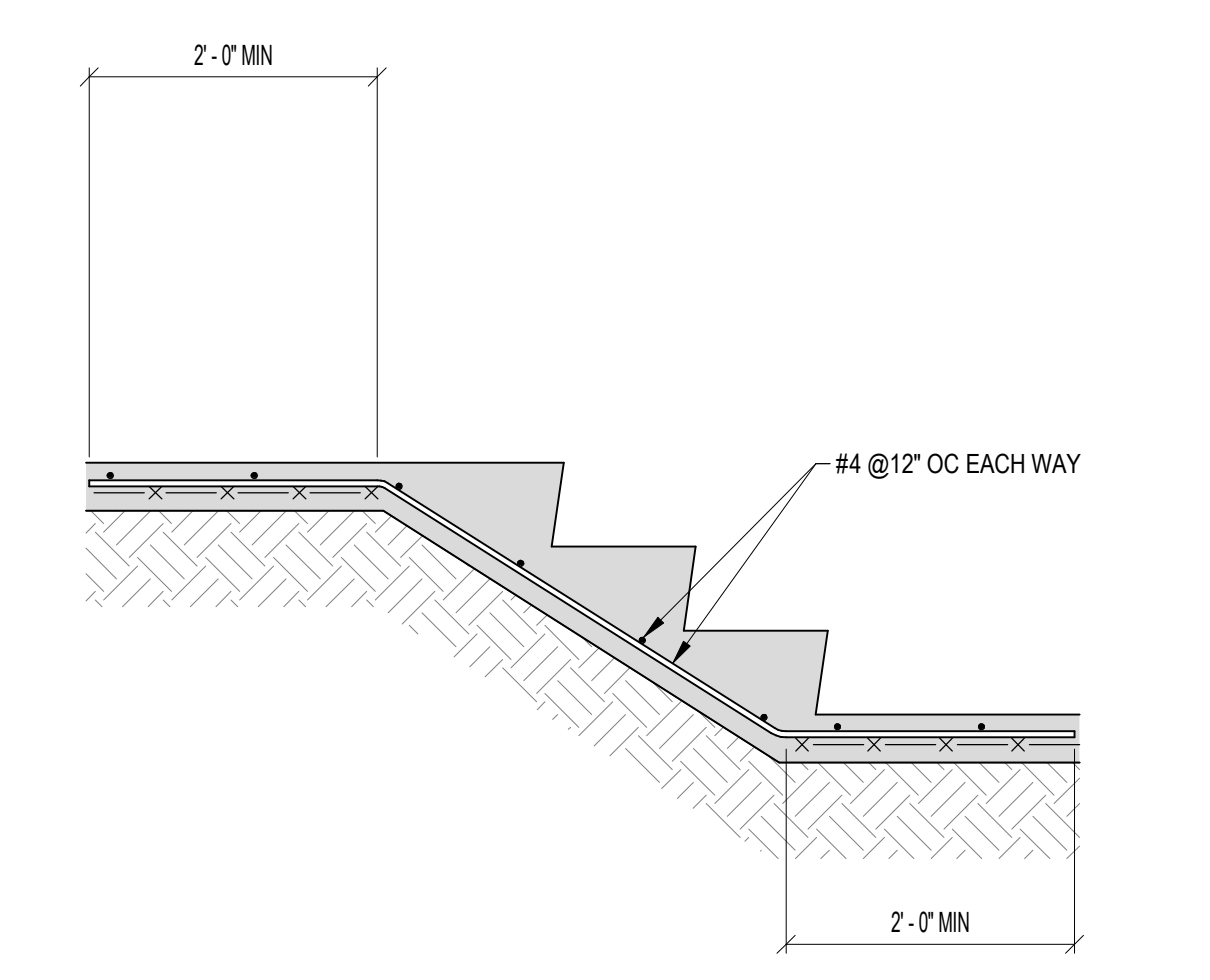
1 CONTROL JOINT
3/4" = 1'-0"



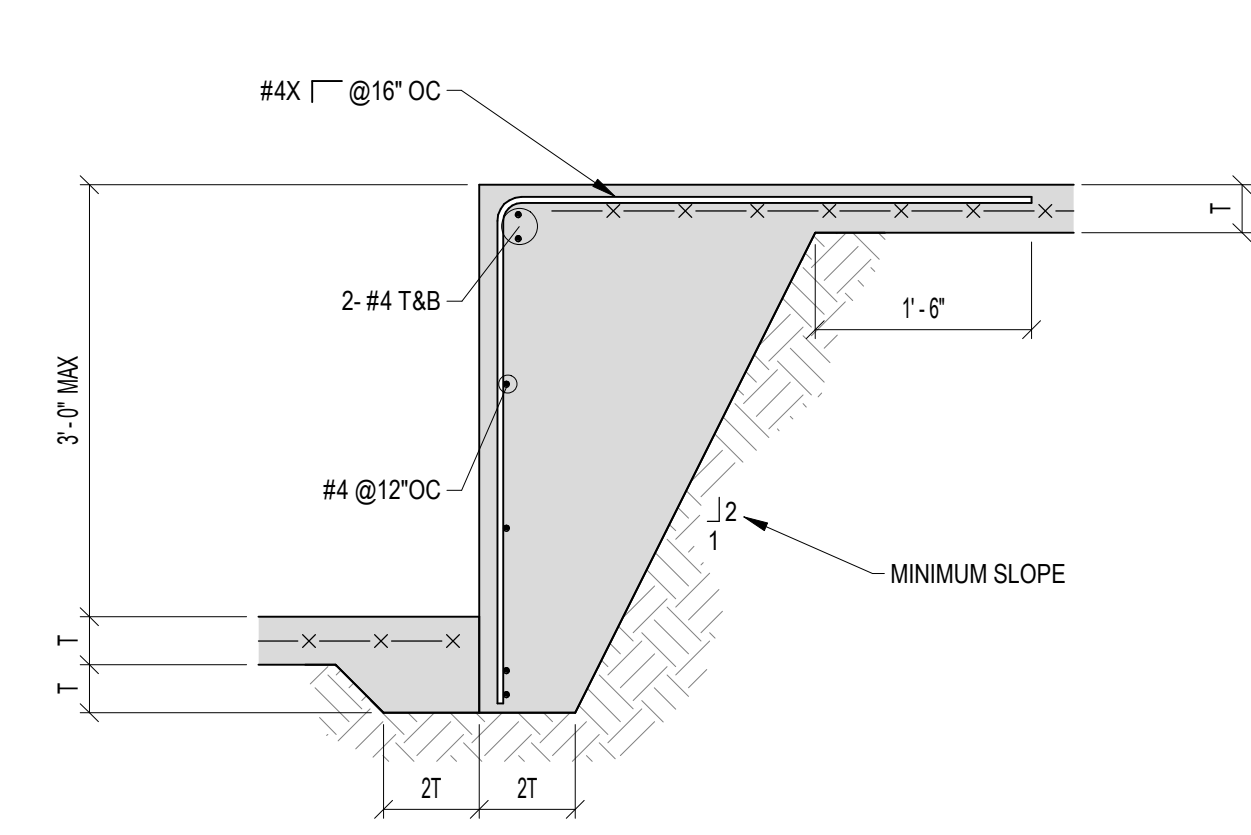
18 PIPE/CONDUIT ADJACENT TO FOOTINGS
3/4" = 1'-0"



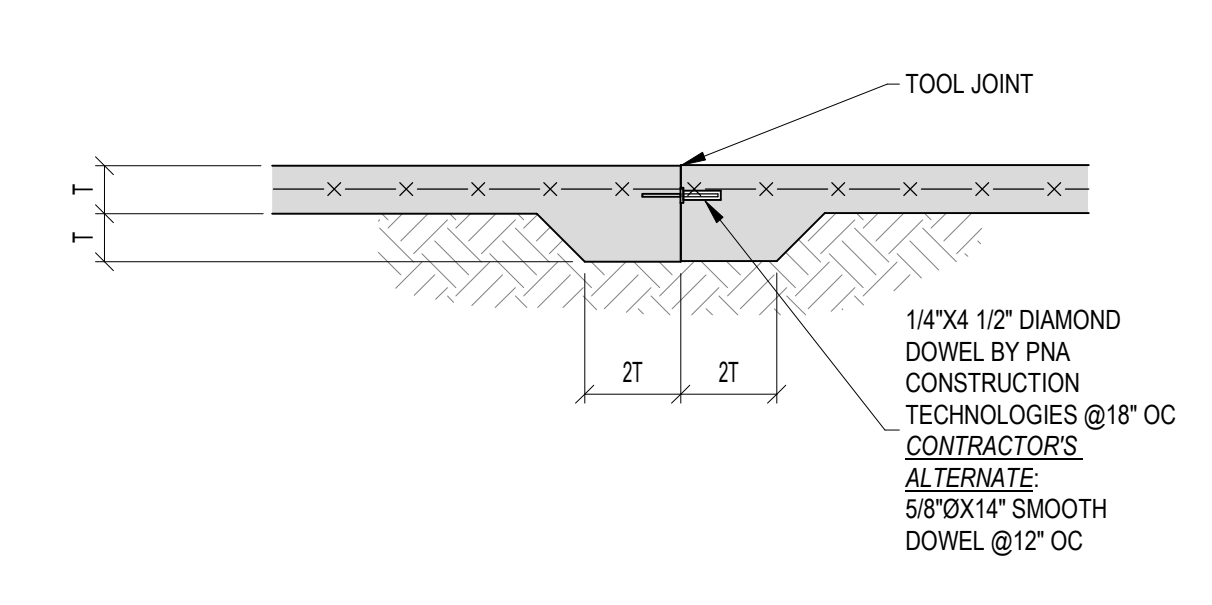
14 DOCK LEVELER
3/4" = 1'-0"



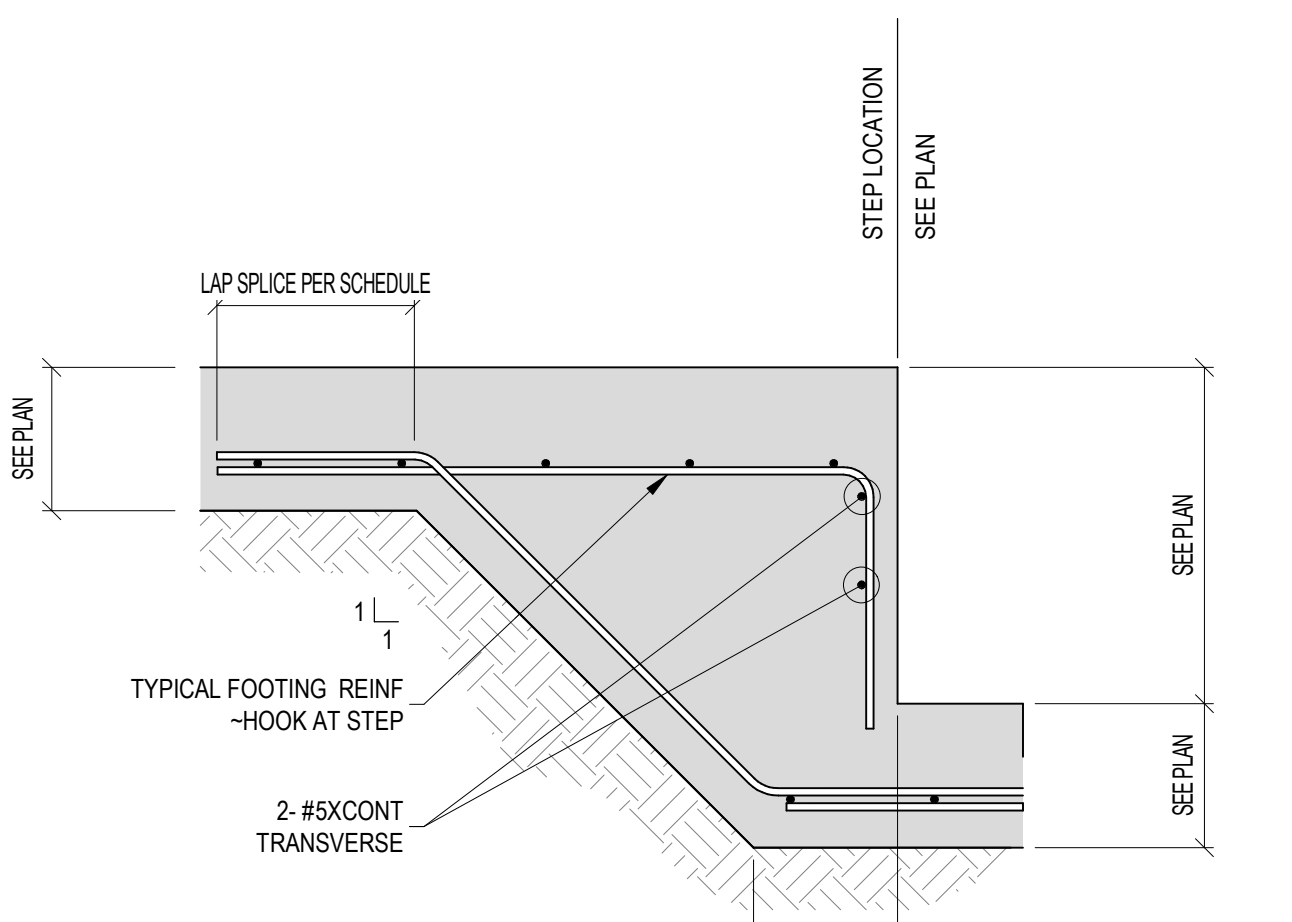
10 STAIR ON GRADE
3/4" = 1'-0"



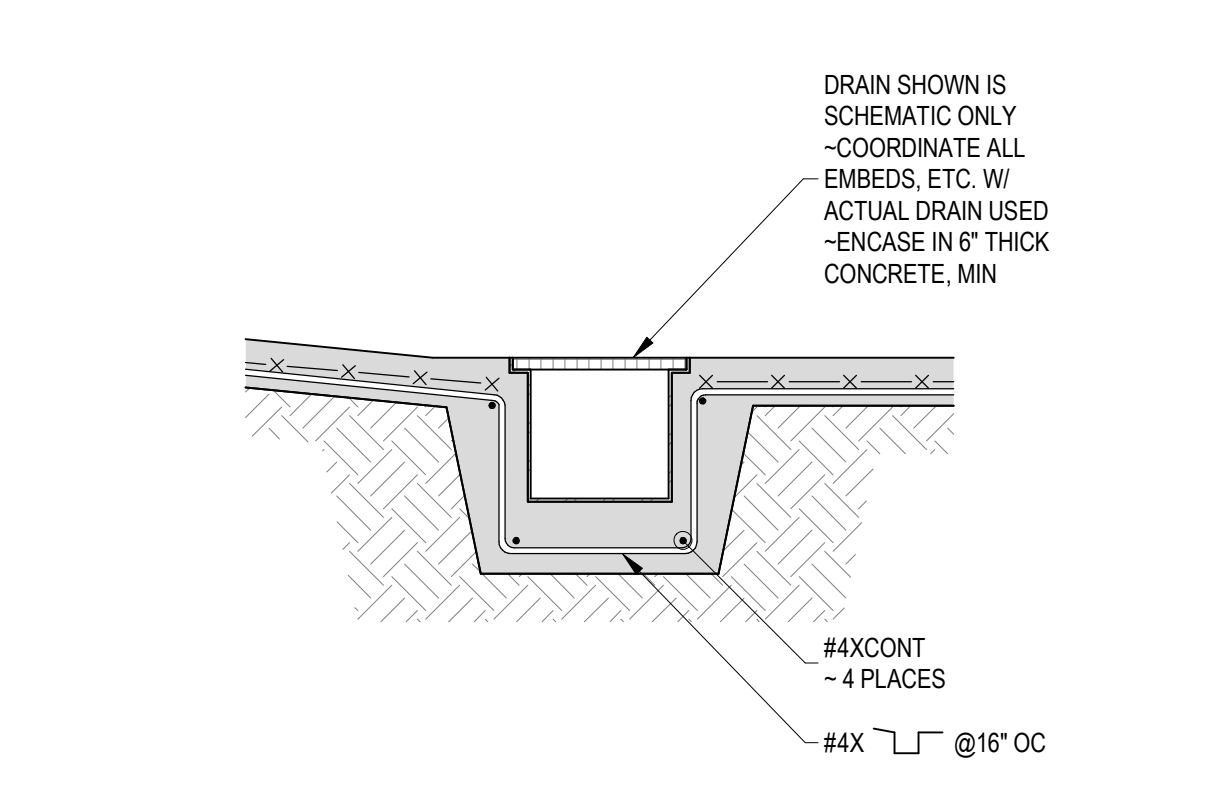
6 LARGE SLAB STEP - TYPE 1
3/4" = 1'-0"



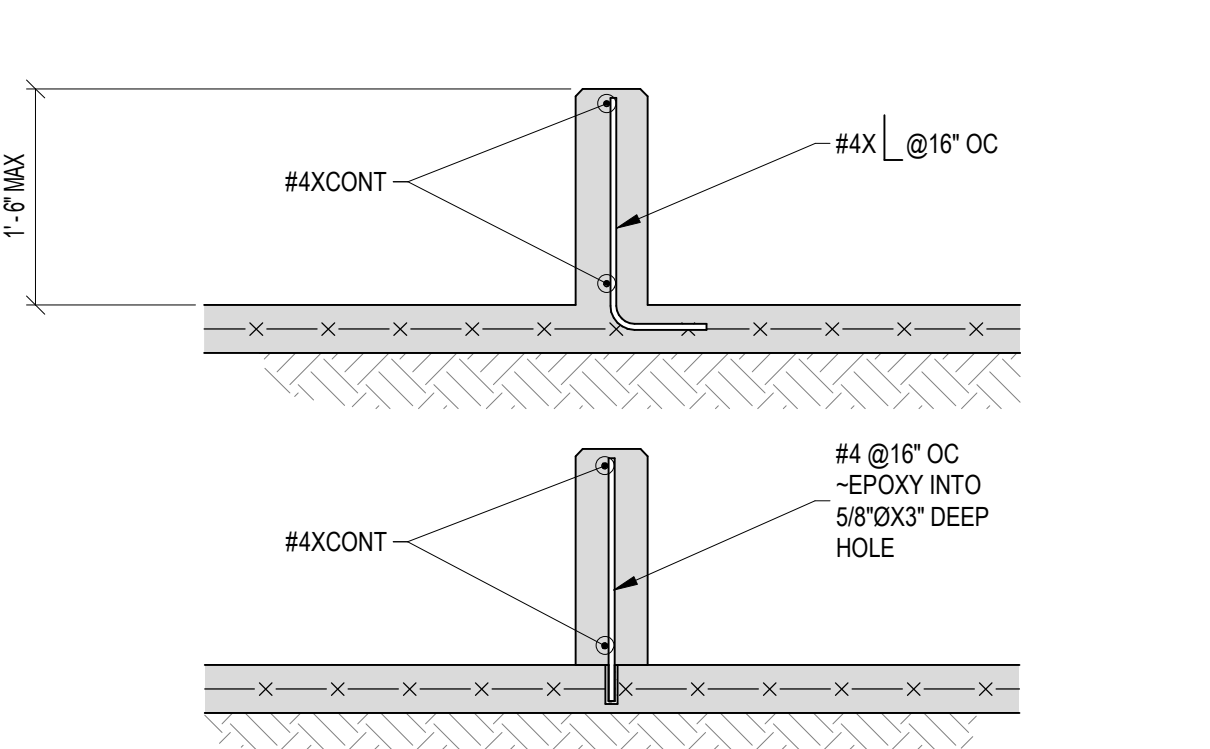
2 CONSTRUCTION JOINT
3/4" = 1'-0"



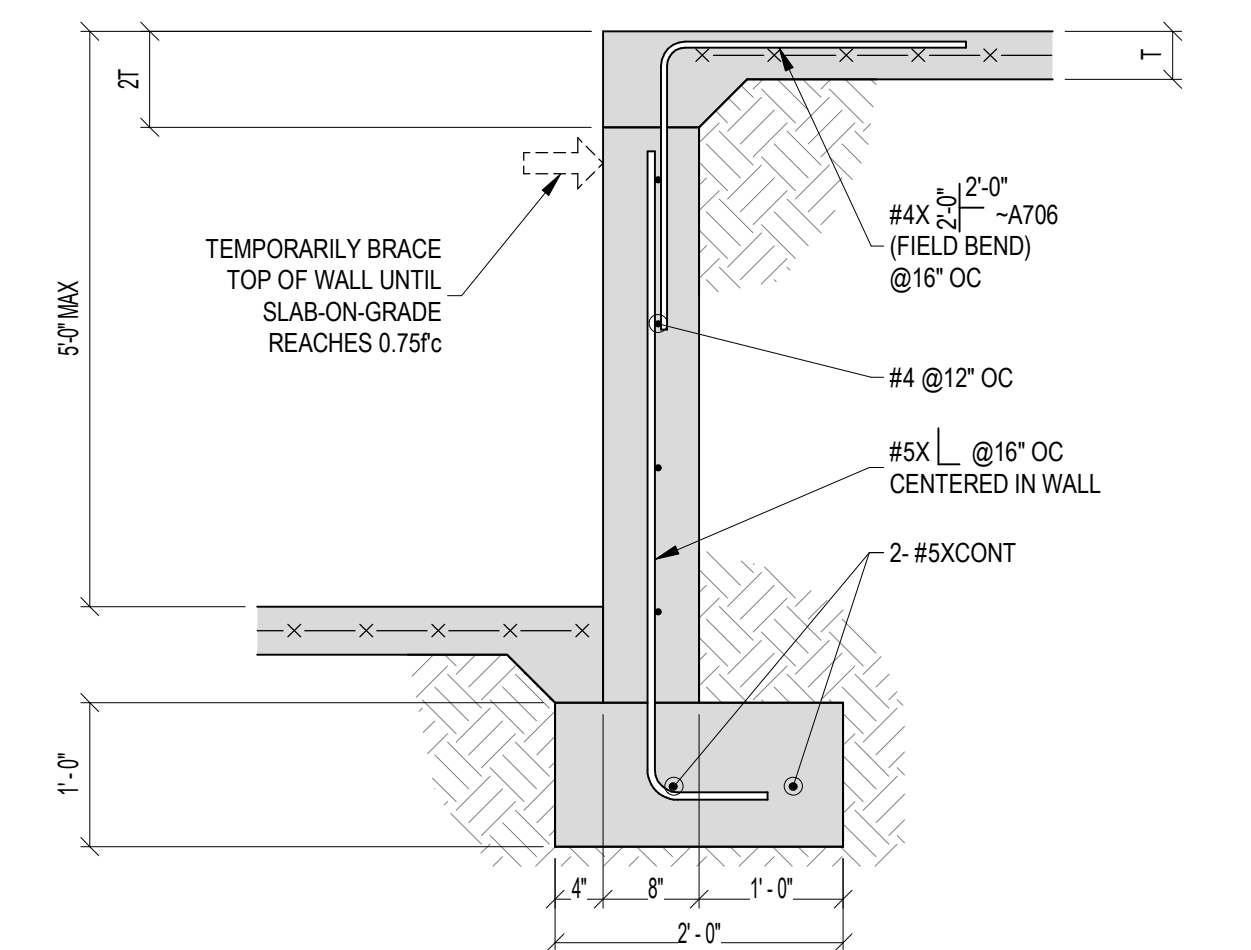
19 FOOTING STEP
3/4" = 1'-0"



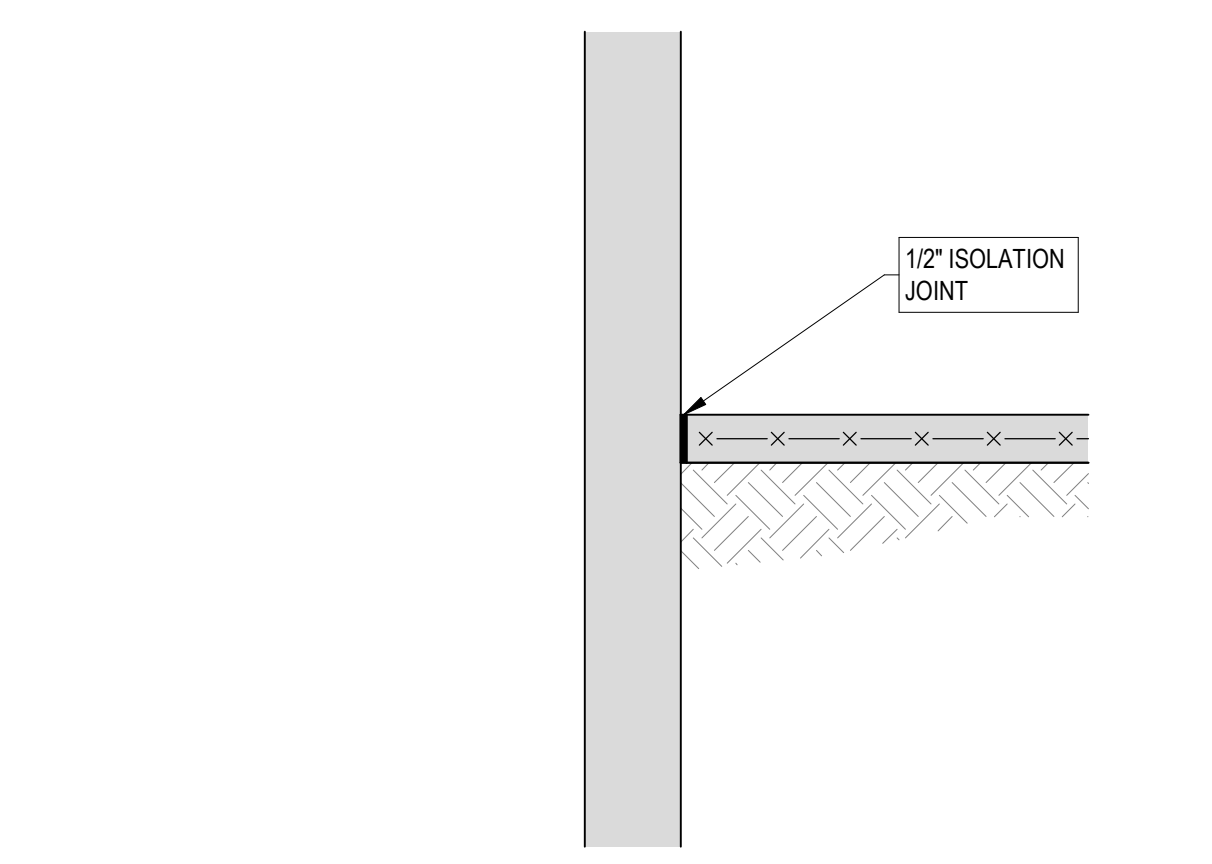
15 TRENCH DRAIN
3/4" = 1'-0"



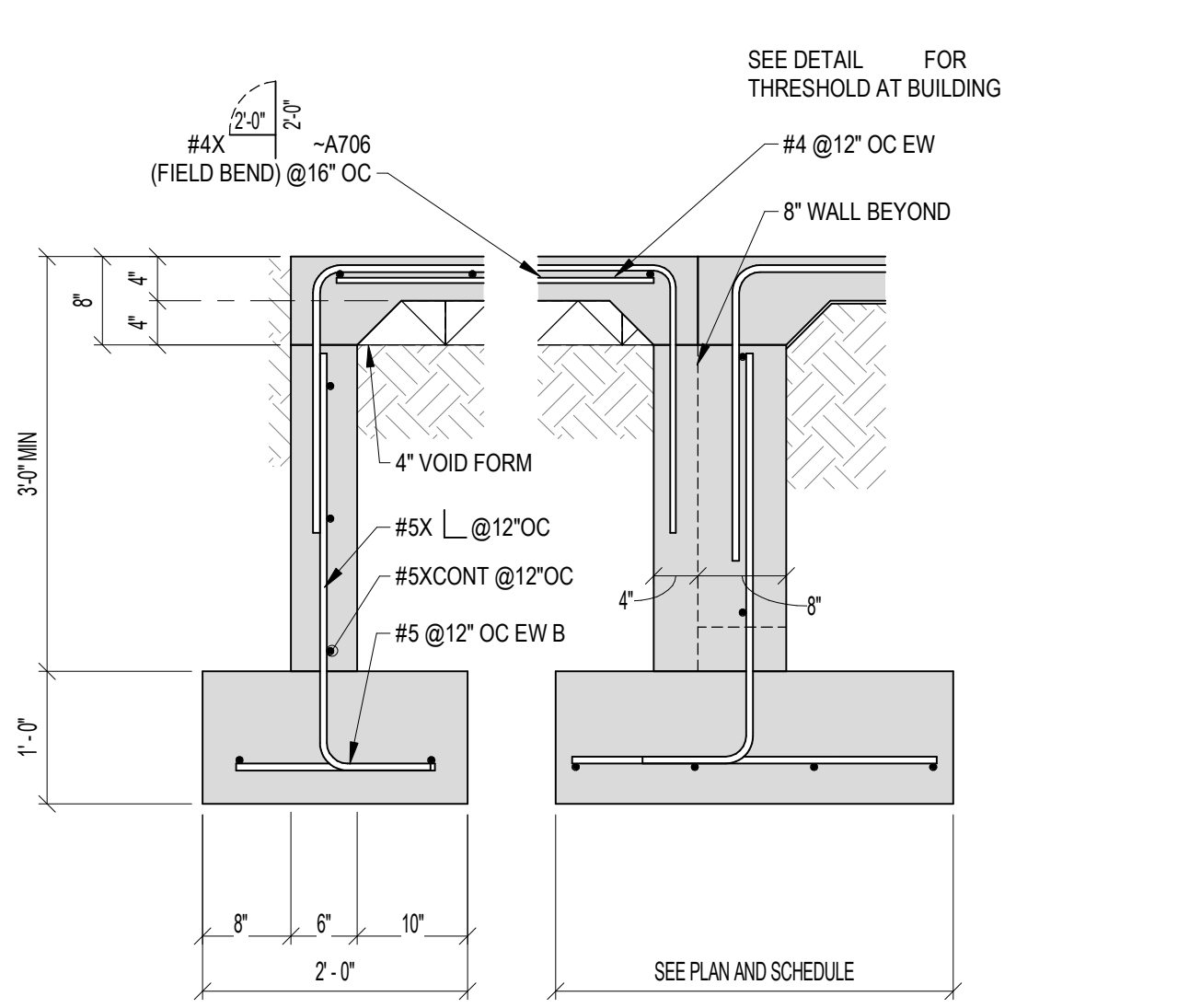
11 CURBS / MONOLITHIC & POST-INSTALLED
3/4" = 1'-0"



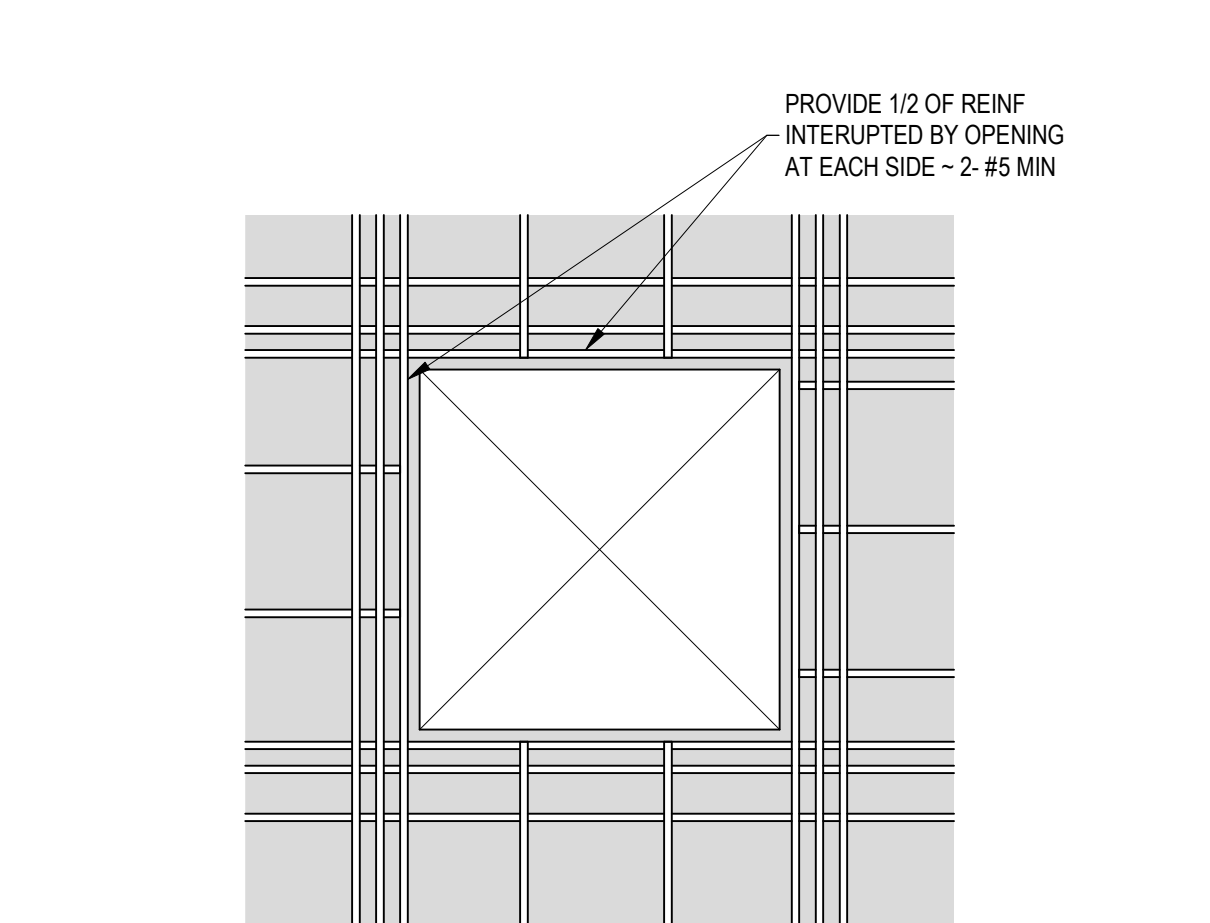
7 LARGE SLAB STEP - TYPE 2
3/4" = 1'-0"



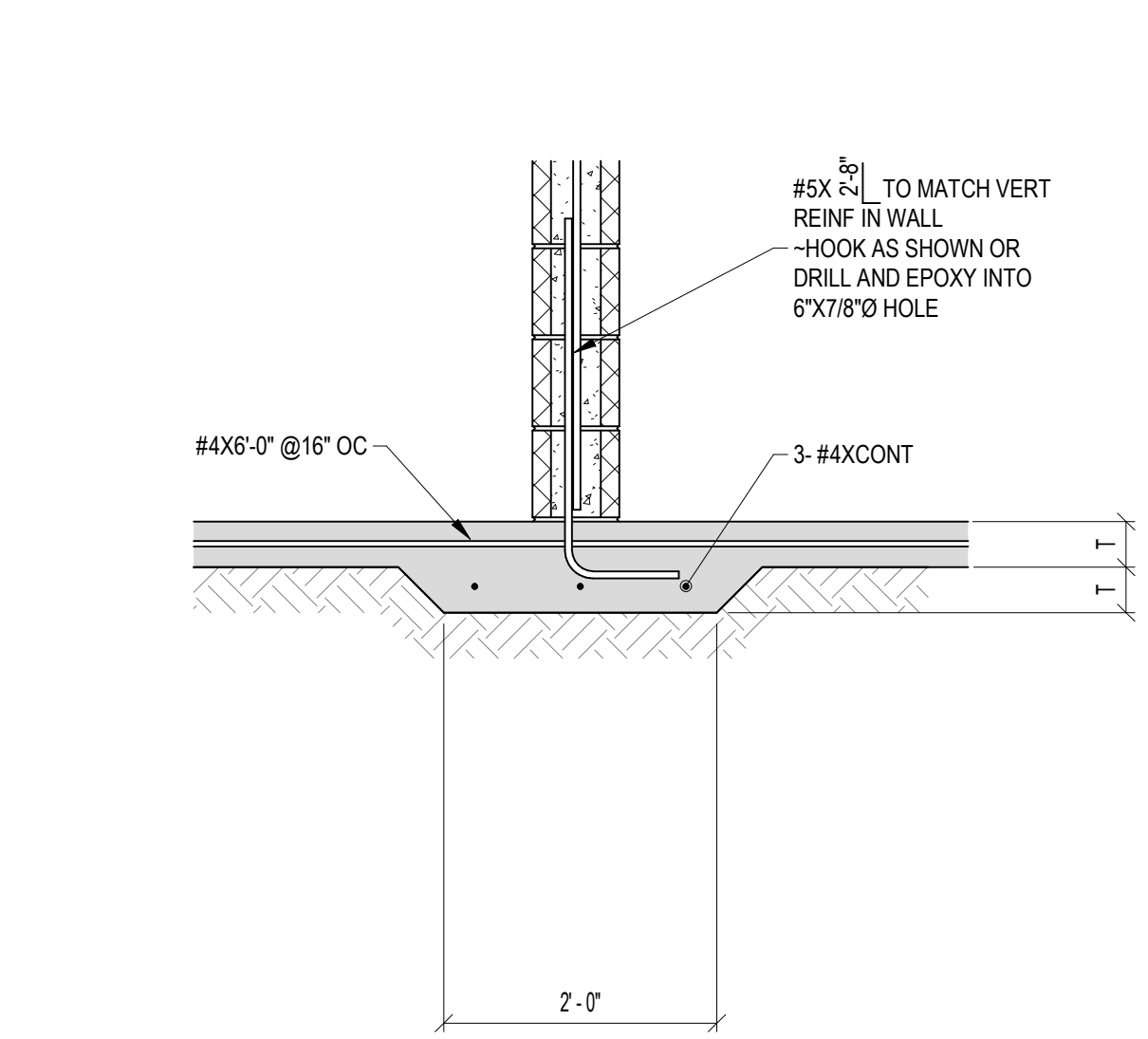
3 SLAB-ON-GRADE ABUTTING VERTICAL CONCRETE
3/4" = 1'-0"



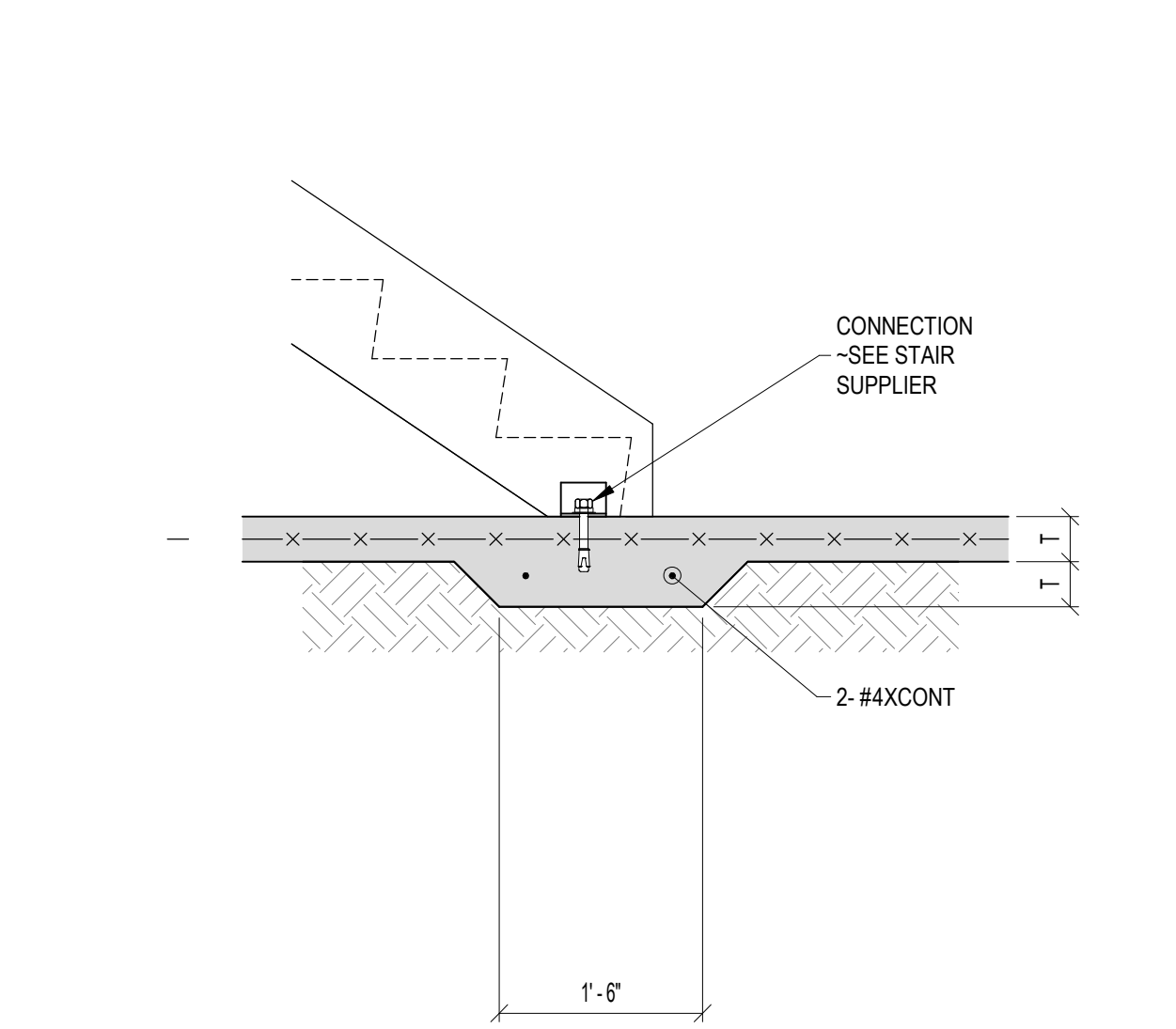
20 FROST SLAB AT DOOR THRESHOLD
3/4" = 1'-0"



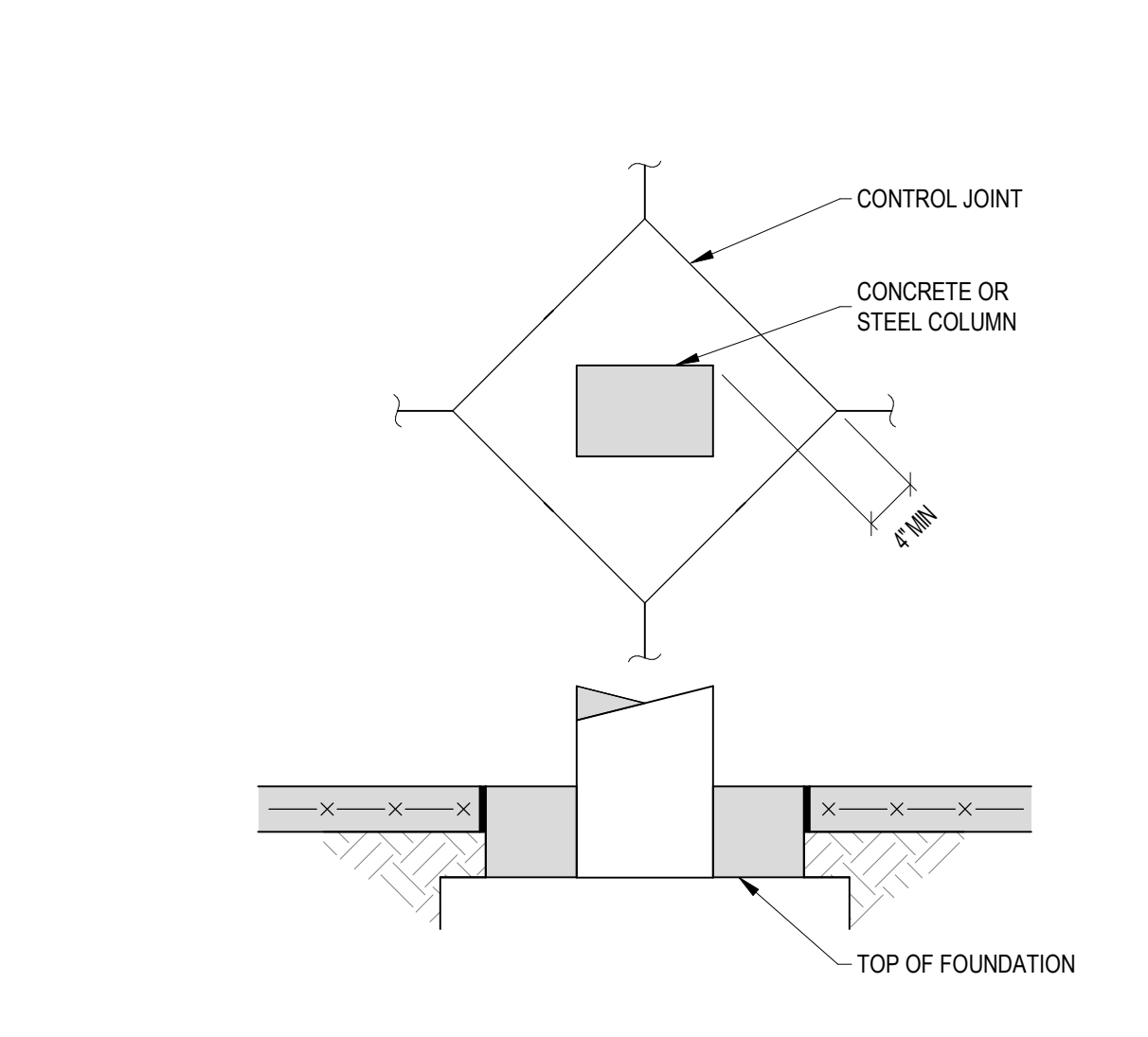
16 NLB CONCRETE WALL AT OPENINGS 12" - 48"
3/4" = 1'-0"



12 CMU WALL BEARING
3/4" = 1'-0"



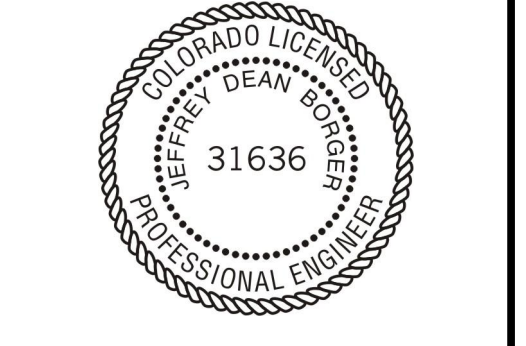
8 THICKENED SLAB AT STAIR BASE
3/4" = 1'-0"



4 DIAMOND BLOCKOUT AROUND COLUMNS
3/4" = 1'-0"

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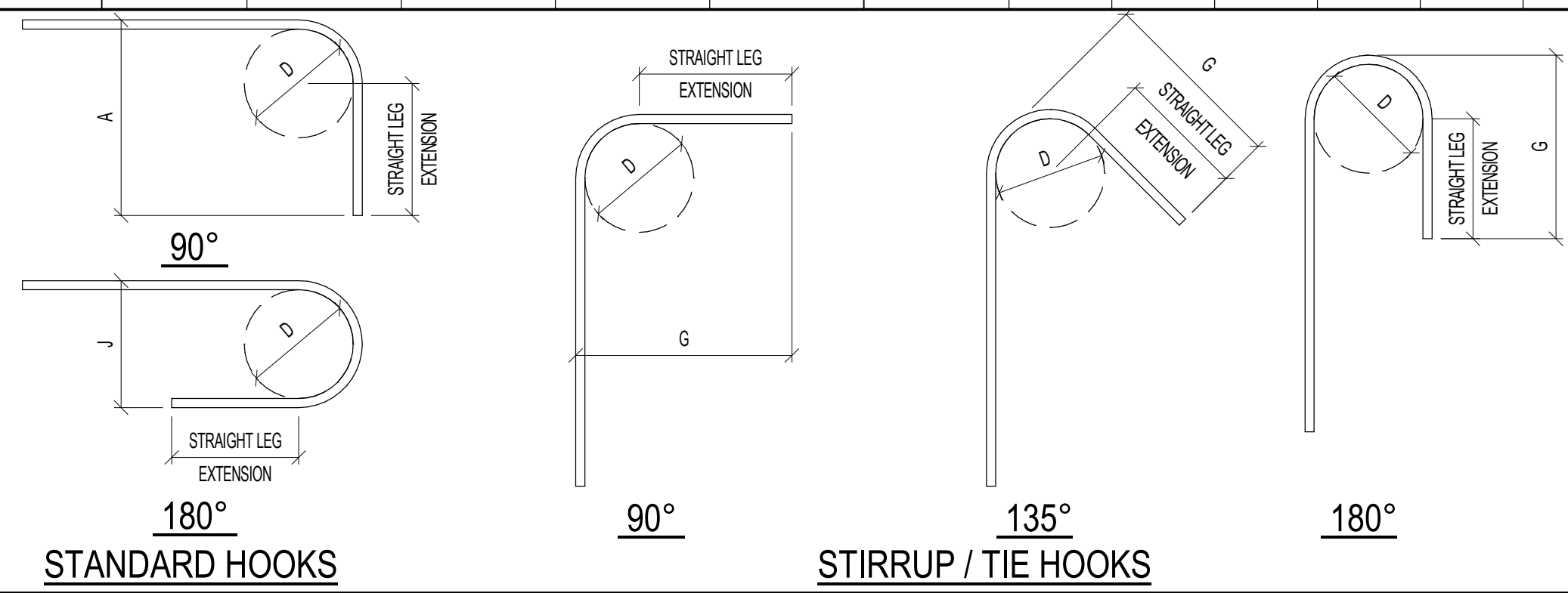
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1	11/18/2024	Permit Issue Set

Date: 11/18/2024
Drawn by: MAR Checked by: JDB
Title: SLAB-ON-GRADE AND TYPICAL CONCRETE DETAILS

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REBAR HOOK SCHEDULE												
BAR SIZE	STANDARD HOOKS					STIRRUP/TIE HOOKS						
	D	90° HOOKS		180° HOOKS		D	90° HOOKS		135° HOOKS		180° HOOKS	
		A	STRAIGHT LEG	J	STRAIGHT LEG		G	STRAIGHT LEG	G	STRAIGHT LEG	G	STRAIGHT LEG
#3	2 1/4"	6"	4 1/2"	3"	2 1/2"	1 1/2"	4 1/2"	3"	4 1/2"	3"	4"	2 1/2"
#4	3"	8"	6"	4"	2 1/2"	2"	4 1/2"	3"	4 1/2"	3"	4 1/2"	2 1/2"
#5	3 3/4"	10"	7 1/2"	5"	2 1/2"	2 1/2"	6"	4"	6"	4"	5"	2 1/2"
#6	4 1/2"	12"	9"	6"	3"	3"	6"	4"	7 1/2"	4 1/2"	7"	3"
#7	5 1/4"	14"	10 1/2"	7"	3 1/2"	5 1/4"	14"	10 1/2"	9"	5 1/2"	8"	3 1/2"
#8	6"	16"	12"	8"	4"	6"	16"	12"	10"	6"	9"	4"
#9	9 1/2"	20"	14"	12"	5"	-	-	-	-	-	-	-
#10	10 3/4"	22 1/2"	15 1/2"	13 1/2"	5 1/2"	-	-	-	-	-	-	-
#11	11 1/2"	24 1/2"	17"	14 1/2"	6"	-	-	-	-	-	-	-



CONCRETE REINFORCING TENSION LAP SPLICE LENGTH (CLASS B) - 60 ksi REBAR

BAR SIZE ENGLISH (METRIC)	f _c =3000 psi (3/4" COVER)		f _c =3000 psi (1 1/2" COVER)		f _c =3000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 3000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	17	13	17	13	17	13	6	6
#4 (13)	29	22	23	17	23	17	8	6
#5 (16)	42	32	28	22	28	22	10	8
#6 (19)	56	43	34	26	34	26	12	11
#7 (22)	90	69	55	43	49	38	14	14
#8 (25)	112	86	70	54	56	43	16	16
#9 (29)	135	104	86	66	69	53	19	20
#10 (32)	163	125	105	81	85	66	22	23
#11 (36)	190	146	126	97	102	79	24	27

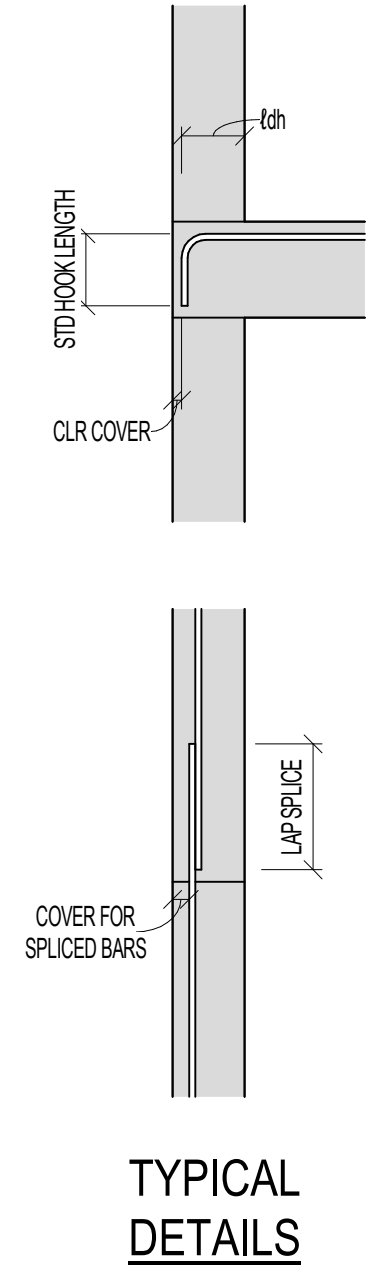
BAR SIZE ENGLISH (METRIC)	f _c =4000 psi (3/4" COVER)		f _c =4000 psi (1 1/2" COVER)		f _c =4000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 4000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	16	12	15	12	15	12	6	6
#4 (13)	25	19	20	15	20	15	8	6
#5 (16)	36	28	24	19	24	19	10	8
#6 (19)	48	37	29	23	29	23	12	10
#7 (22)	78	60	48	37	42	33	14	13
#8 (25)	96	74	61	47	49	37	16	15
#9 (29)	117	90	75	57	60	46	19	18
#10 (32)	140	108	91	70	74	57	22	22
#11 (36)	165	127	109	84	89	68	24	26

BAR SIZE ENGLISH (METRIC)	f _c =5000 psi (3/4" COVER)		f _c =5000 psi (1 1/2" COVER)		f _c =5000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 5000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	16	12	13	12	13	12	6	6
#4 (13)	22	17	18	14	18	14	8	6
#5 (16)	33	25	22	17	22	17	10	8
#6 (19)	44	34	26	20	26	20	12	10
#7 (22)	70	54	43	33	38	29	14	12
#8 (25)	87	67	54	42	43	33	16	15
#9 (29)	105	81	67	51	54	41	19	18
#10 (32)	126	97	82	63	66	51	22	21
#11 (36)	148	114	97	75	79	61	24	25

BAR SIZE ENGLISH (METRIC)	f _c =6000 psi (3/4" COVER)		f _c =6000 psi (1 1/2" COVER)		f _c =6000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 6000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	16	12	16	12	16	12	6	6
#4 (13)	21	16	17	13	17	13	8	6
#5 (16)	30	23	21	16	21	16	10	7
#6 (19)	40	31	25	19	25	19	12	10
#7 (22)	64	49	39	30	35	27	14	12
#8 (25)	79	61	49	38	40	31	16	15
#9 (29)	96	74	61	47	49	38	19	17
#10 (32)	114	88	75	58	61	47	22	21
#11 (36)	135	104	90	69	73	56	24	24

BAR SIZE ENGLISH (METRIC)	f _c =7000 psi (3/4" COVER)		f _c =7000 psi (1 1/2" COVER)		f _c =7000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 7000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	16	12	16	12	16	12	6	6
#4 (13)	18	14	16	12	16	12	8	6
#5 (16)	27	21	18	14	18	14	10	7
#6 (19)	36	28	22	17	22	17	12	9
#7 (22)	60	46	36	28	33	25	14	11
#8 (25)	73	56	46	35	36	28	16	14
#9 (29)	88	68	57	44	46	35	19	16
#10 (32)	107	82	69	53	56	43	22	19
#11 (36)	125	96	83	64	68	52	24	22

BAR SIZE ENGLISH (METRIC)	f _c =8000 psi (3/4" COVER)		f _c =8000 psi (1 1/2" COVER)		f _c =8000 psi (2" COVER)		STD HOOK LENGTH	ℓ _{dh} (f _c = 8000psi)
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3 (10)	16	12	16	12	16	12	6	6
#4 (13)	18	14	16	12	16	12	8	6
#5 (16)	26	20	18	14	18	14	10	7
#6 (19)	35	27	21	16	21	16	12	8
#7 (22)	56	43	34	26	30	23	14	10
#8 (25)	69	53	43	33	35	27	16	13
#9 (29)	83	64	53	41	43	33	19	15
#10 (32)	100	77	65	50	53	41	22	18
#11 (36)	117	90	77	59	64	49	24	21



- NOTES:
1. TABULATED VALUES ARE BASED ON NON-EPOXY COATED GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE. LENGTHS ARE IN INCHES.
2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-19.
3. CLEAR SPACING OF BARS MUST BE AT LEAST DOUBLE THE CONCRETE COVER.
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
5. FOR LIGHT WEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.33.
6. DEVELOPMENT LENGTH (ℓ_{dh}) = TENSION LAP SPLICE LENGTH DIVIDED BY 1.3 BUT NOT LESS THAN 12" MINIMUM.
7. FOR CONDITIONS WITH SIDE COVER NORMAL TO PLANE OF HOOK LESS THAN 2.5" IN COLUMNS OR LESS THAN 6db IN OTHER CONDITIONS, ℓ_{dh} MUST BE INCREASED BY 1.25.
8. SEE CONCRETE COLUMN SCHEDULE FOR COMPRESSION LAP SPLICE LENGTHS.



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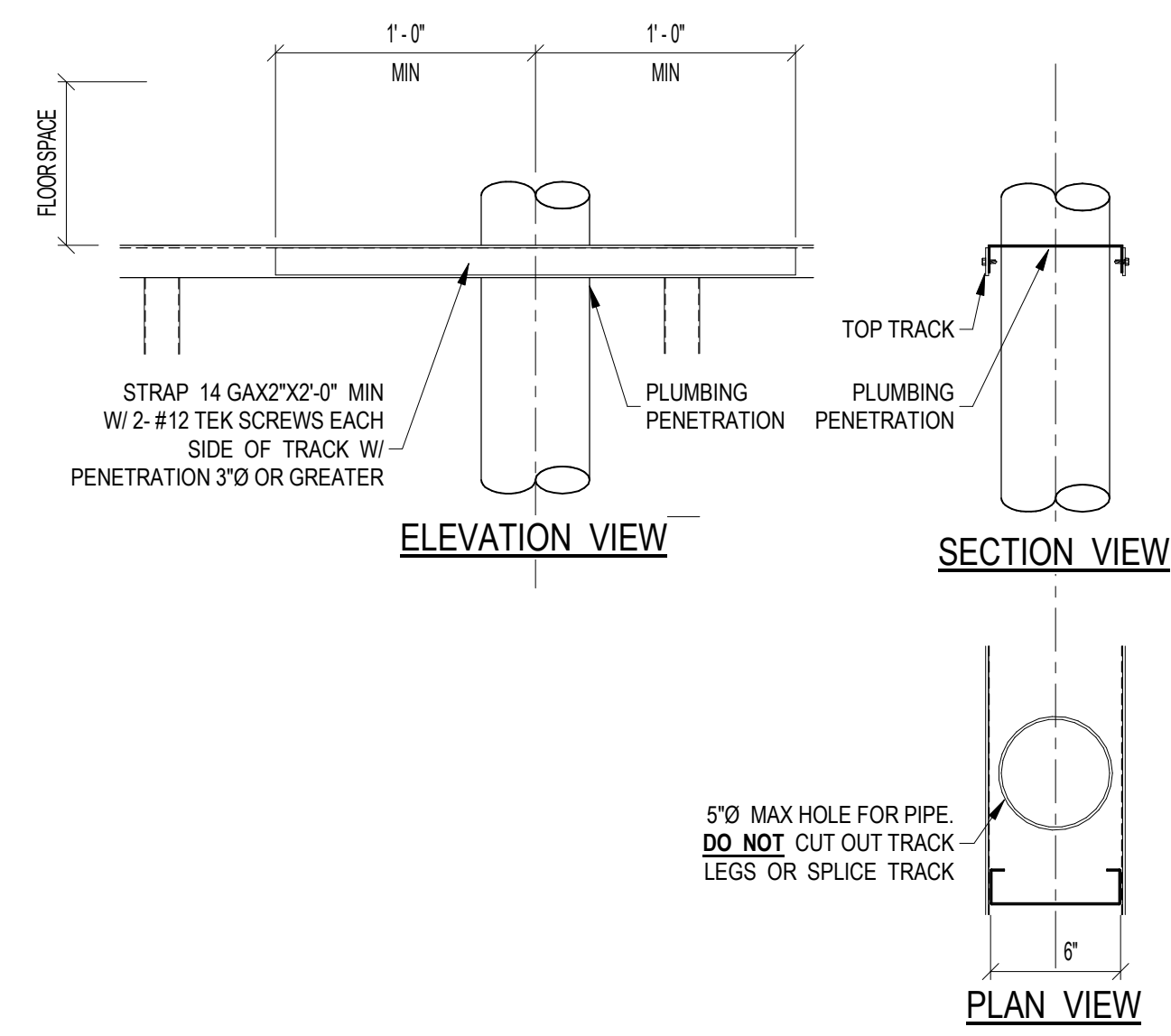
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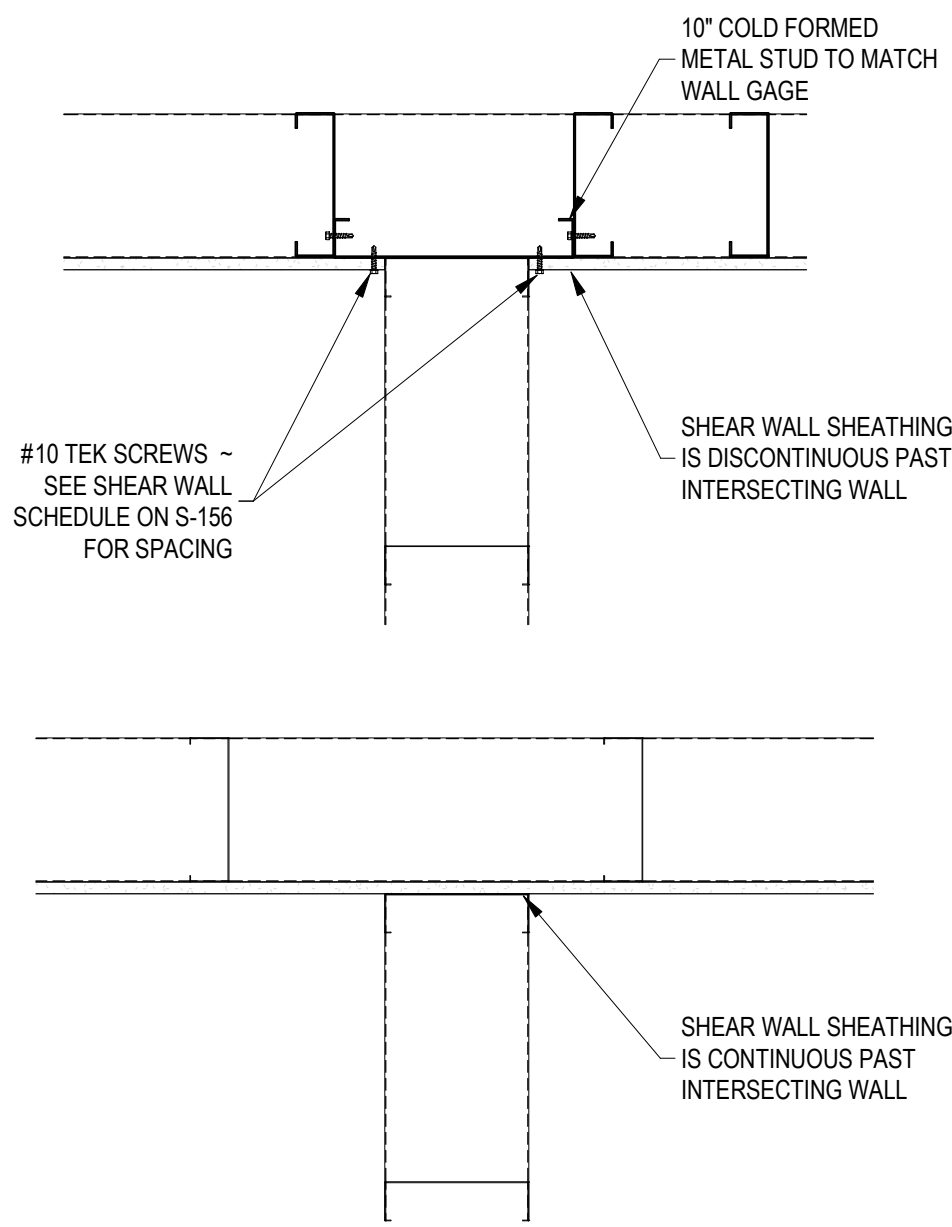
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Title
GENERAL CONCRETE SCHEDULES

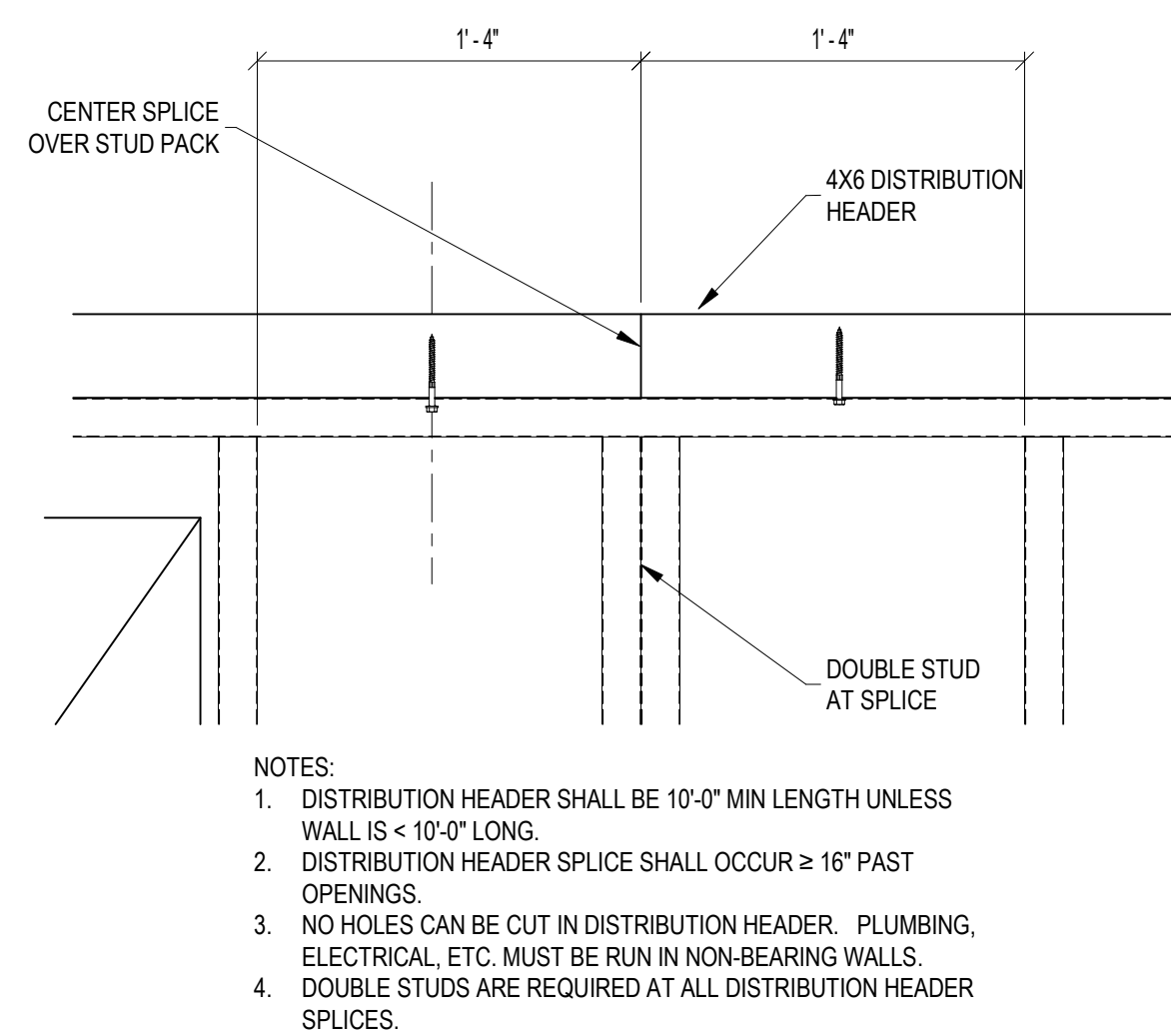
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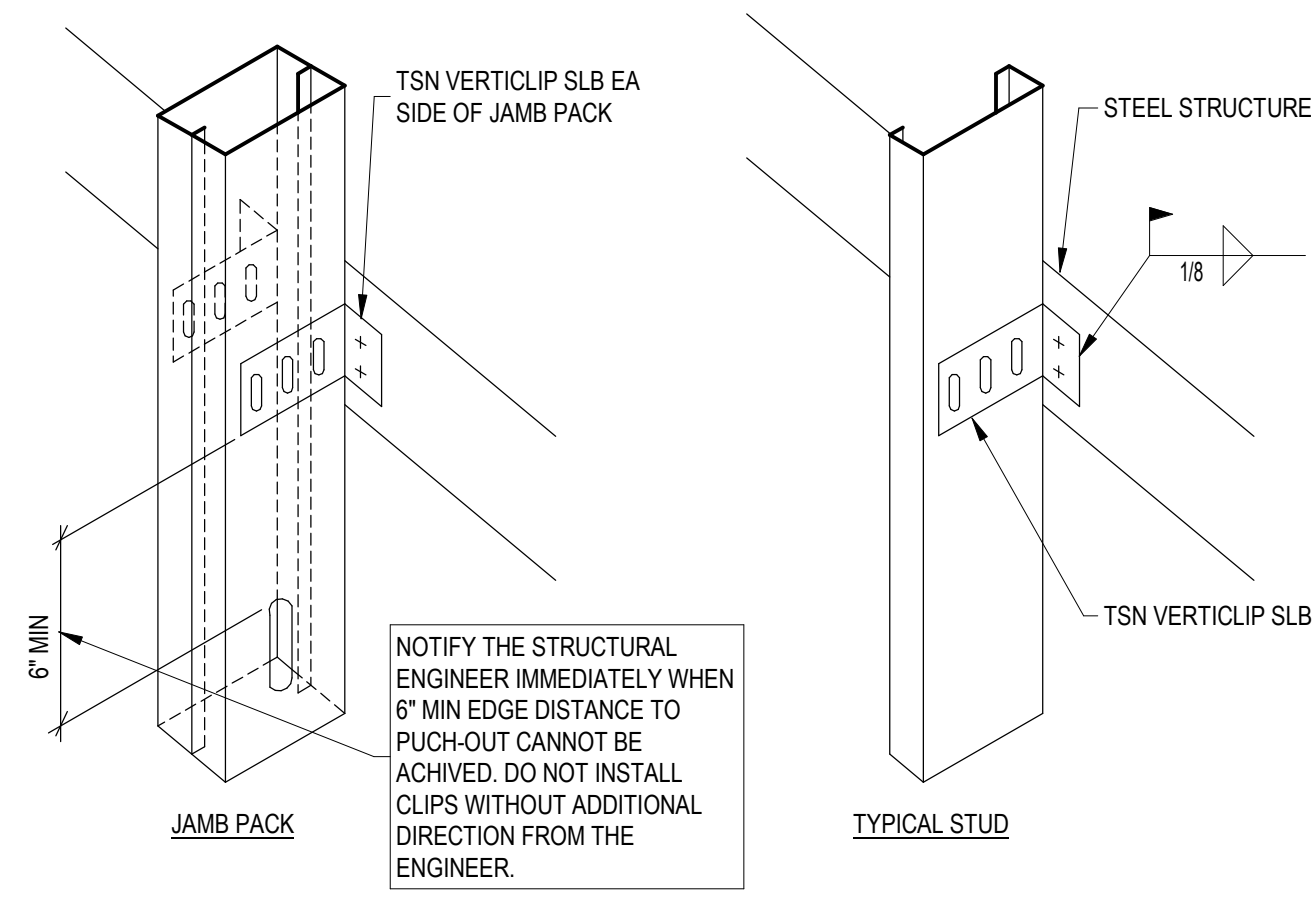
11 VERTICAL PLUMBING PENETRATIONS THRU TRACK
1 1/2" = 1'-0"



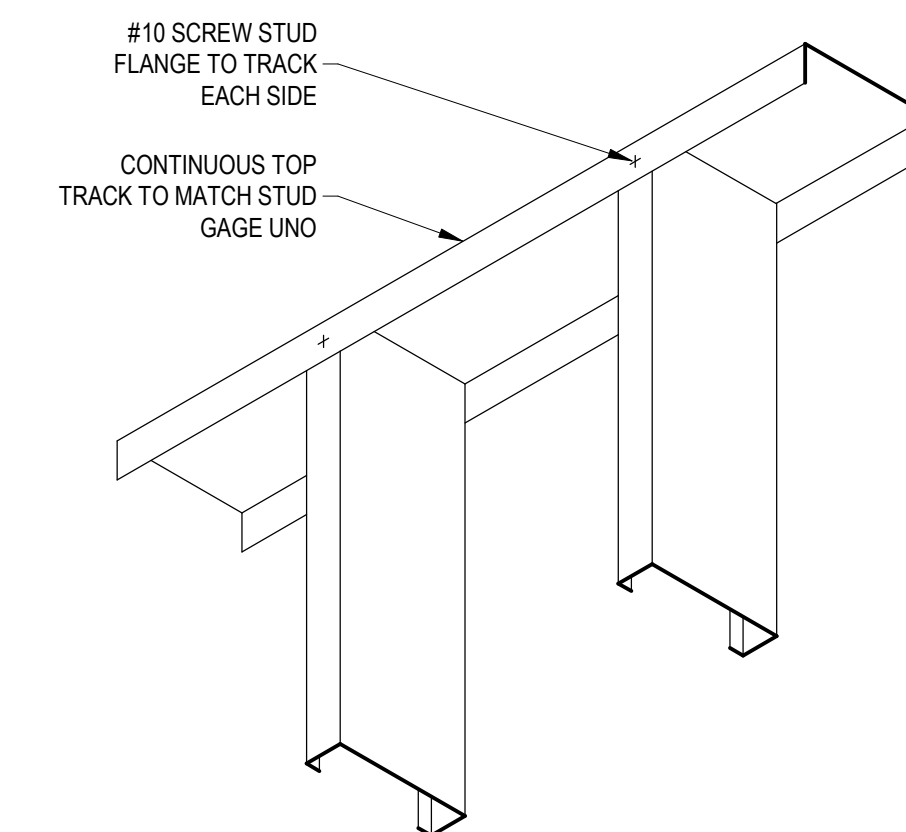
12 SHEAR WALLS AT INTERSECTING WALLS
1 1/2" = 1'-0"



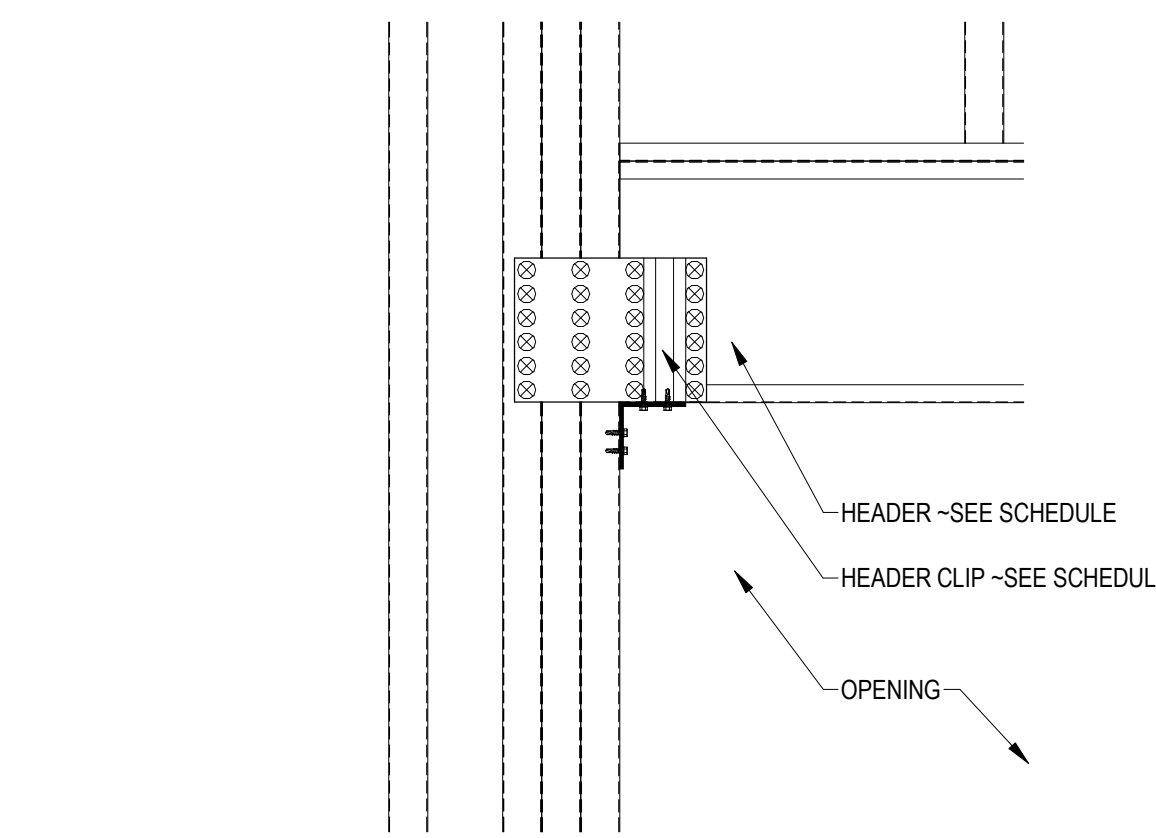
13 DISTRIBUTION HEADER SPLICE
1 1/2" = 1'-0"



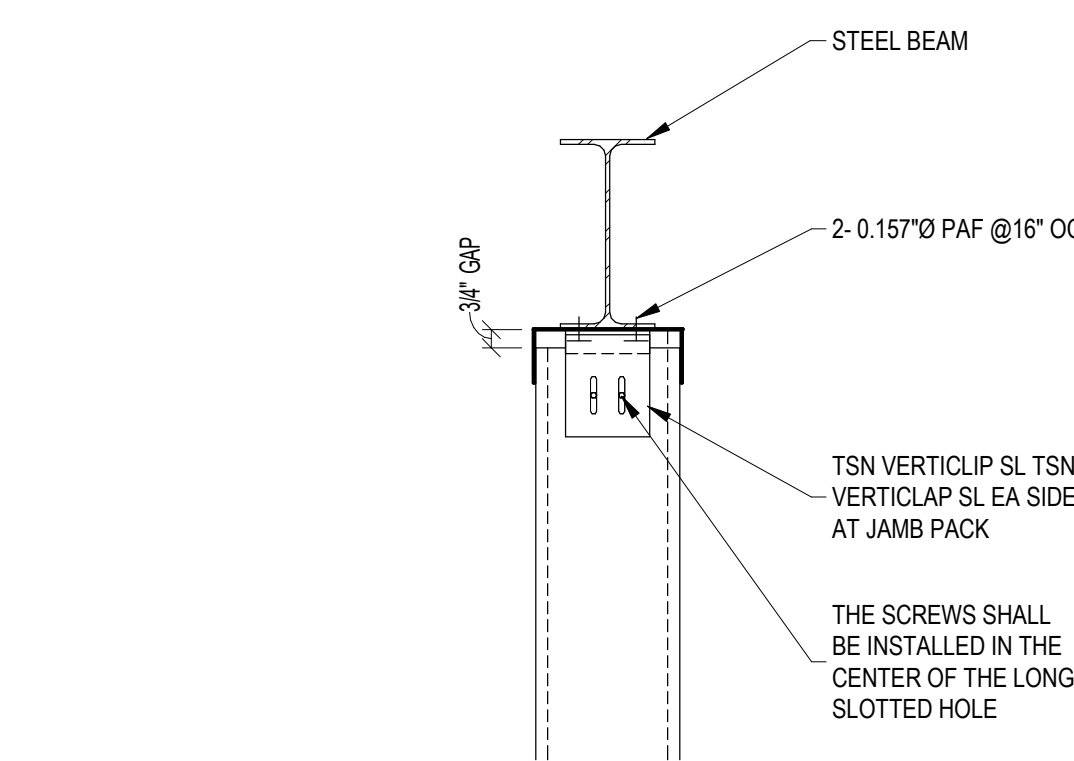
7 TYPICAL DEFLECTION BYPASS CONNECTION
1 1/2" = 1'-0"



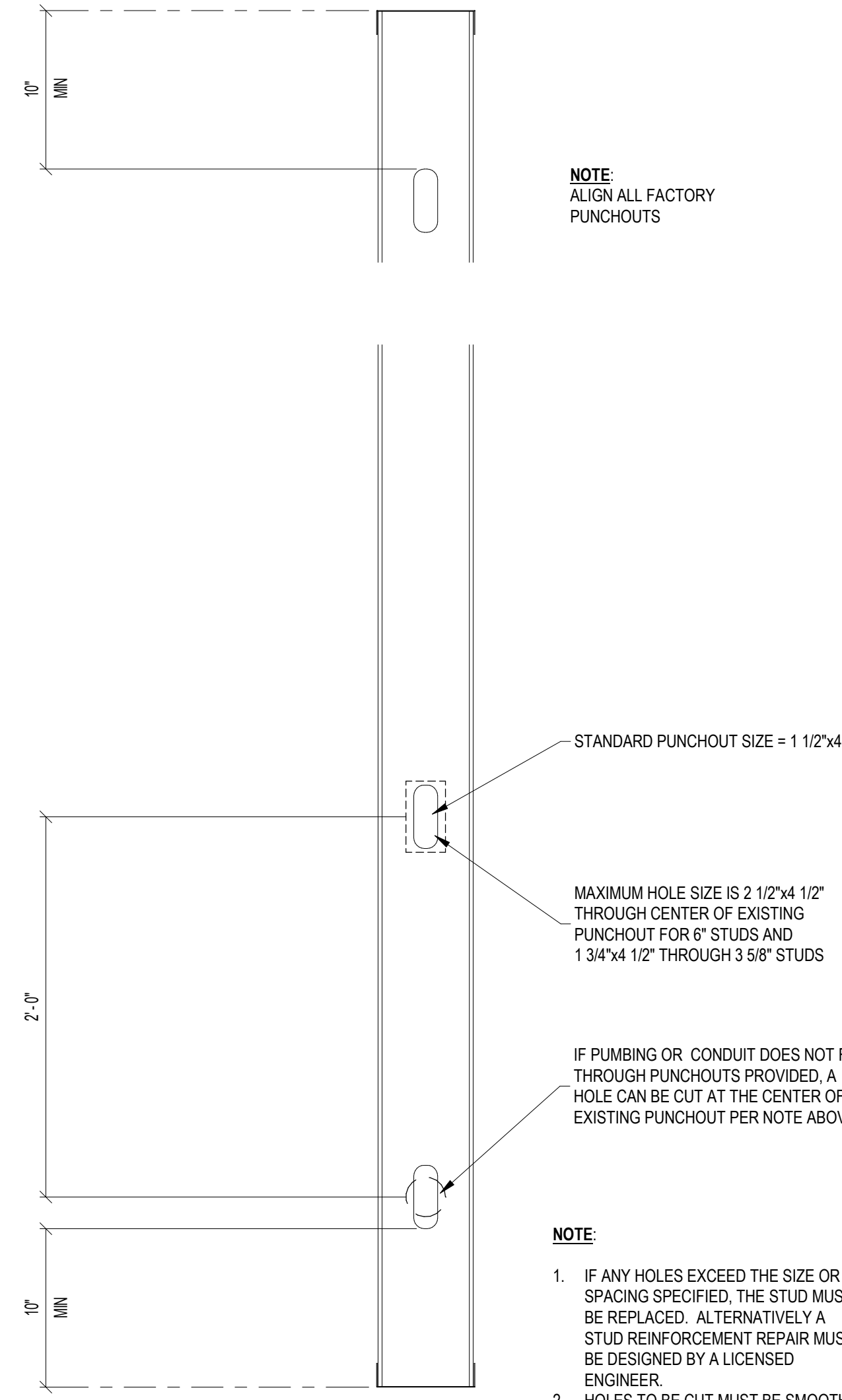
4 TYPICAL TOP TRACK TO BEARING STUD
1 1/2" = 1'-0"



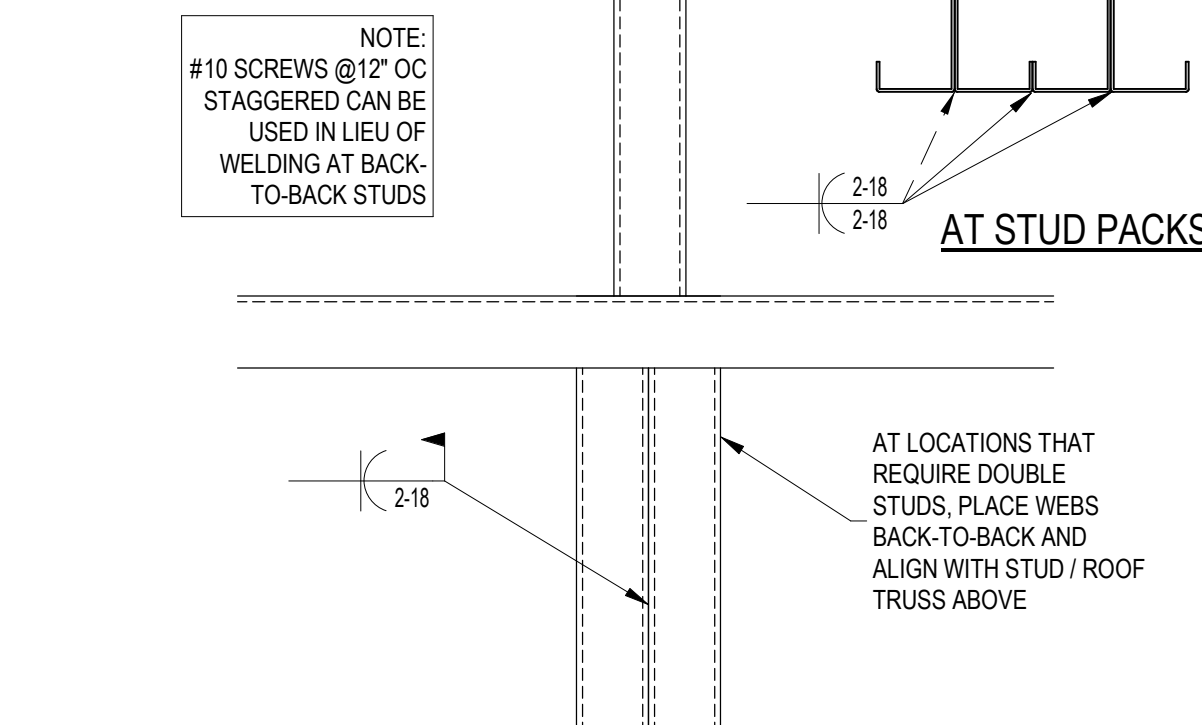
1 TYP DROPPED HEADER CONNECTION
1 1/2" = 1'-0"



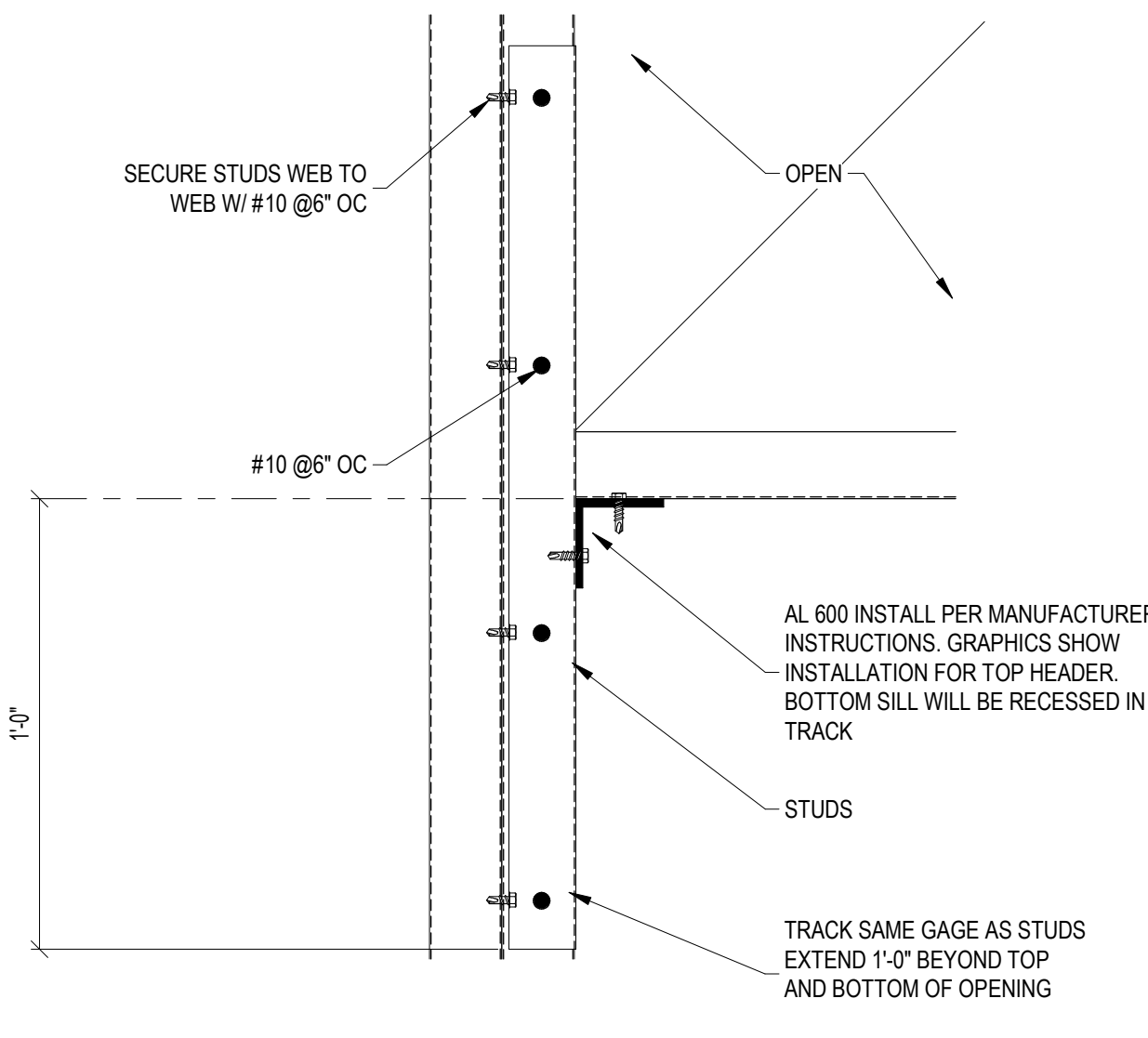
8 TYPICAL DEFLECTION CONNECTION AT STEEL
1 1/2" = 1'-0"



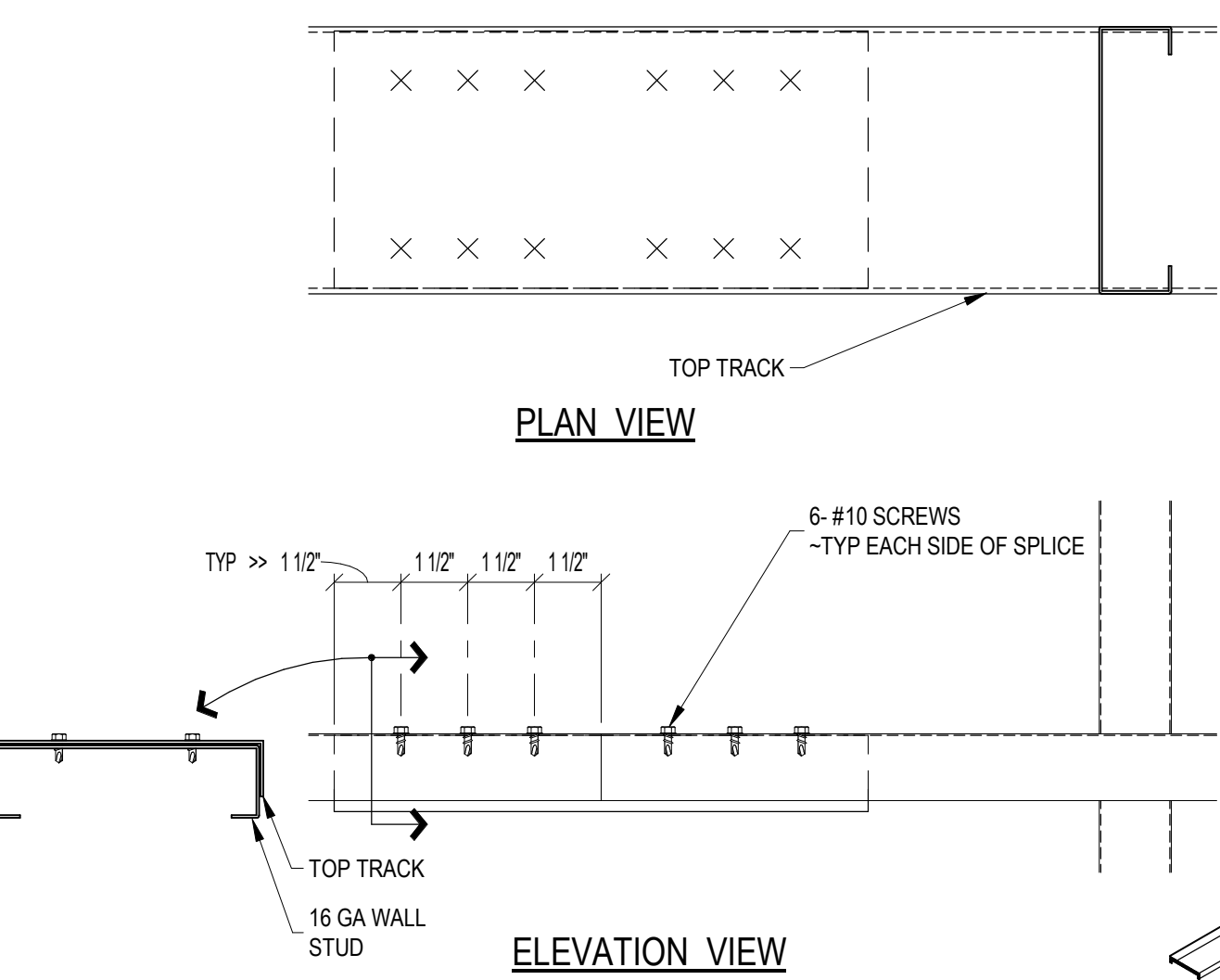
5 ALLOWABLE HOLES FOR CFS STUDS
1 1/2" = 1'-0"



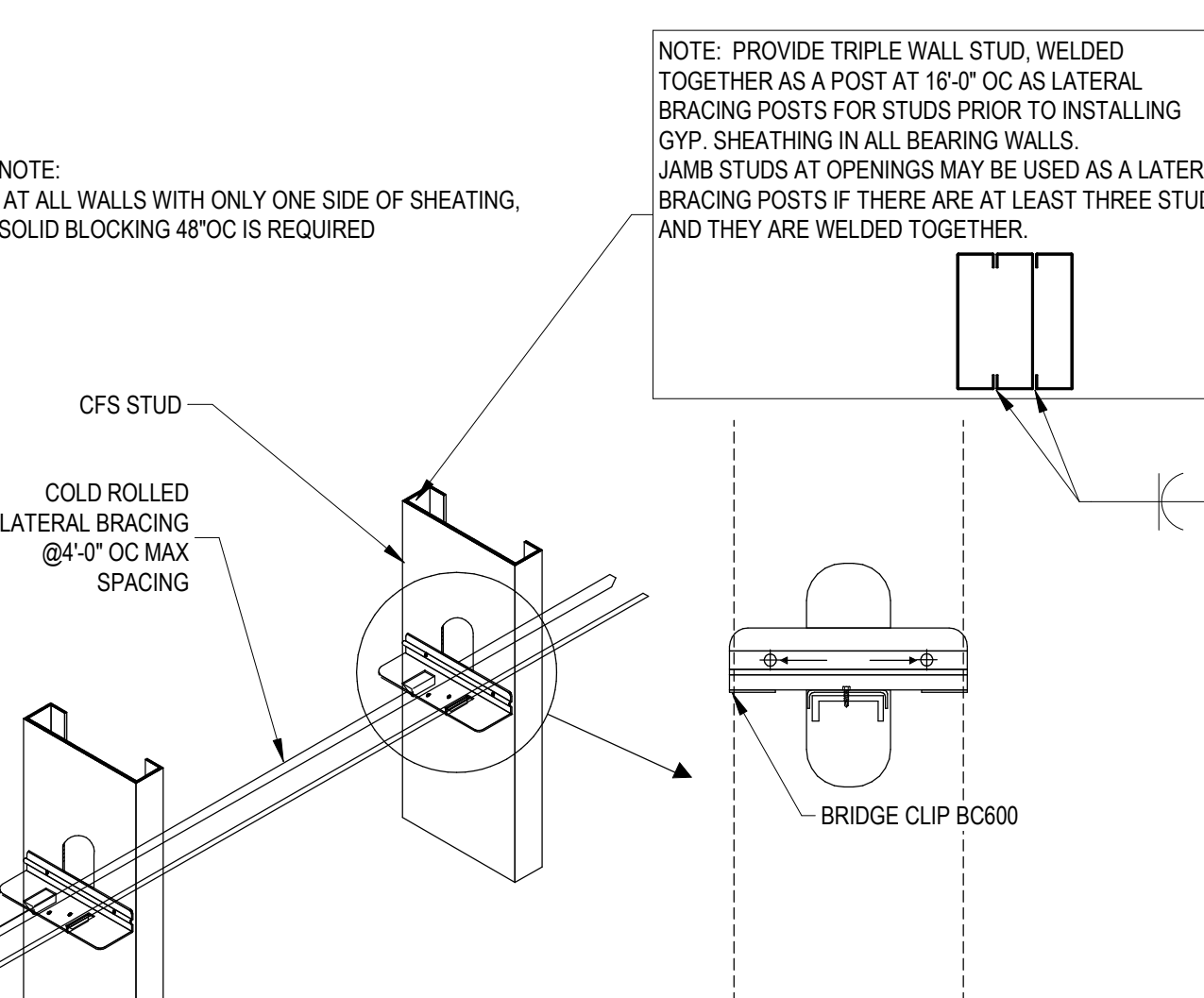
9 MULTIPLE STUDS
3" = 1'-0"



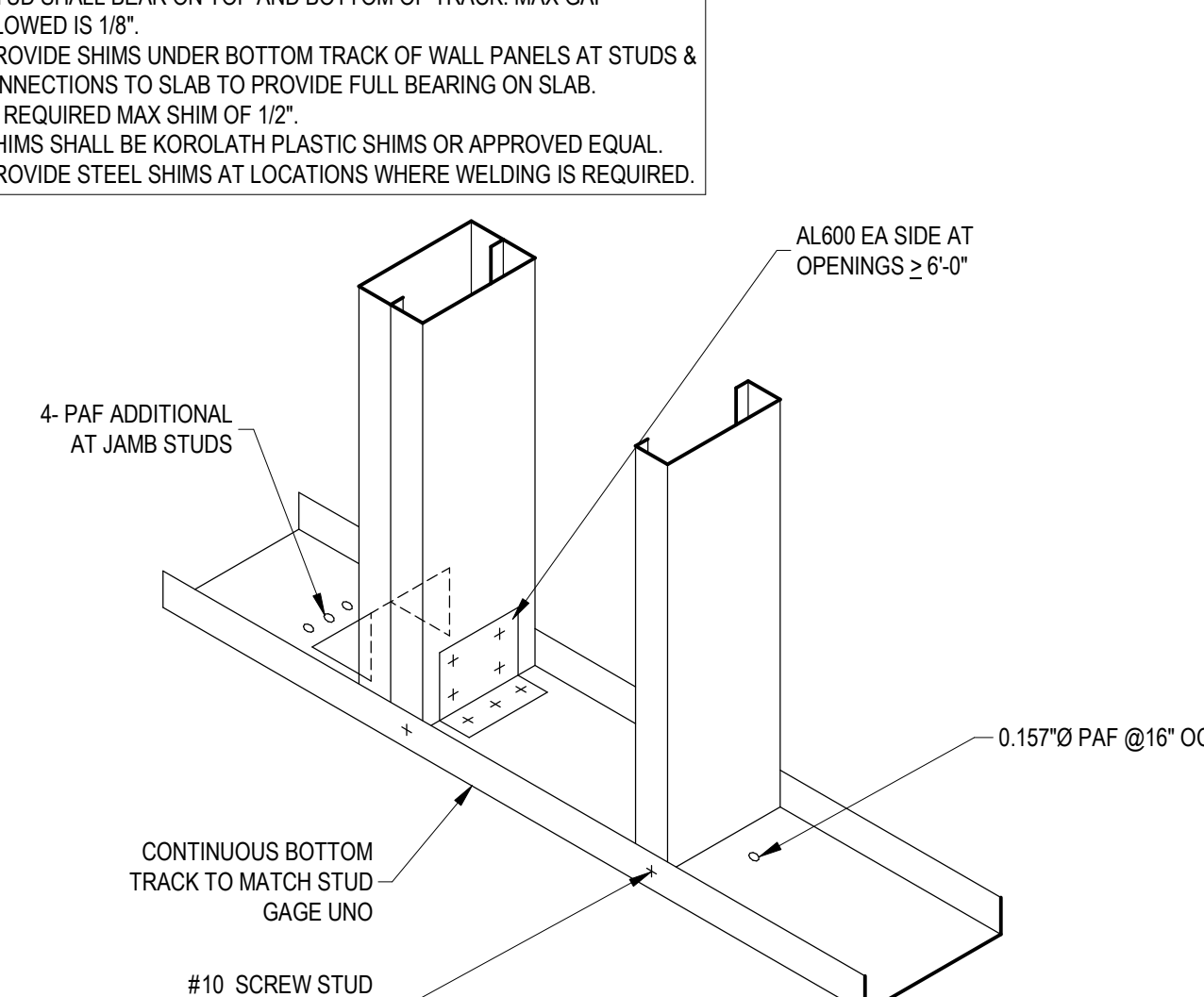
2 WIND HEADER OR SILL CONNECTION
3" = 1'-0"



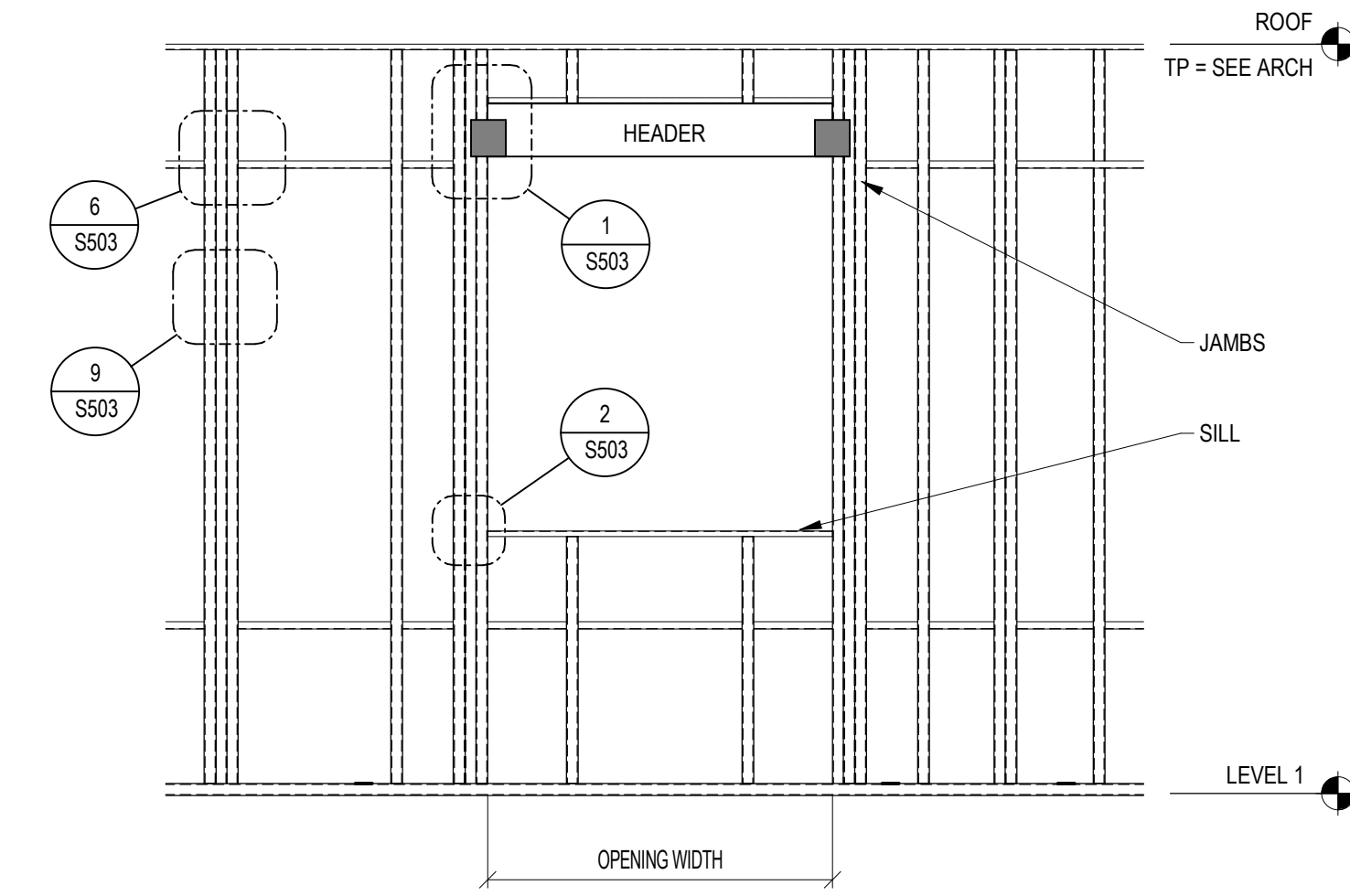
10 TYPICAL TOP TRACK SPLICE
3" = 1'-0"



6 CONSTRUCTION BRIDGING
1 1/2" = 1'-0"



3 TYPICAL BOTTOM TRACK TO BEARING STUD
1 1/2" = 1'-0"

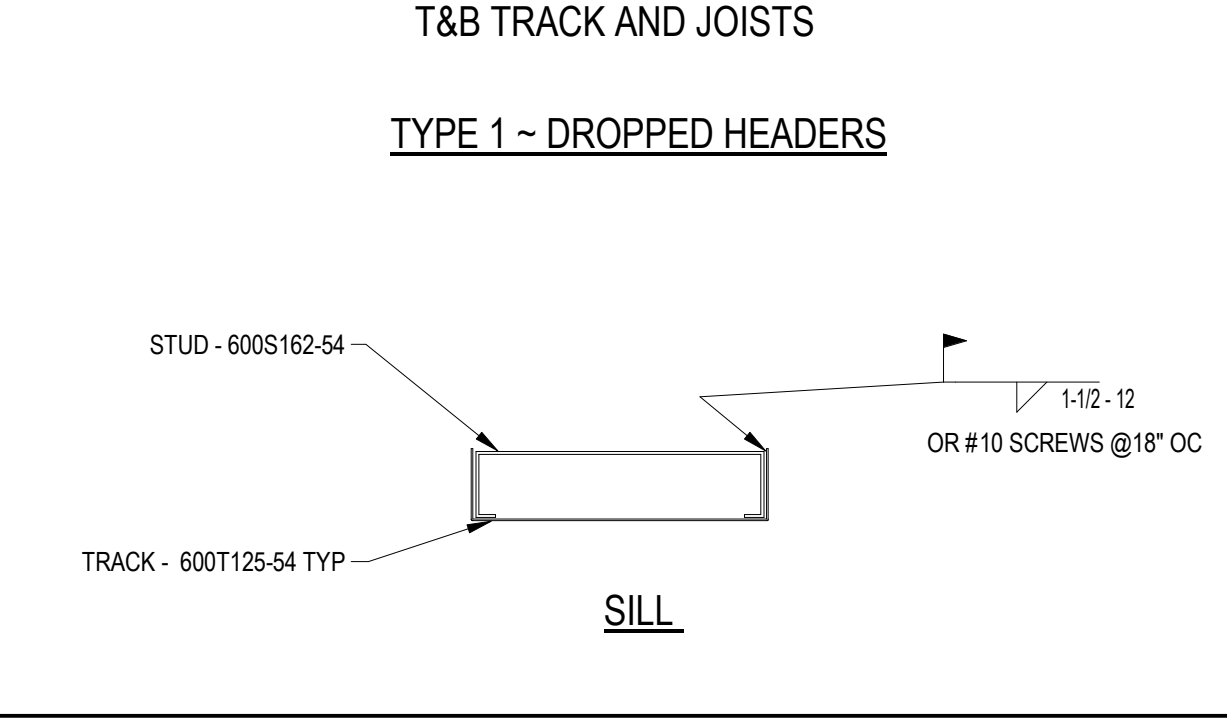
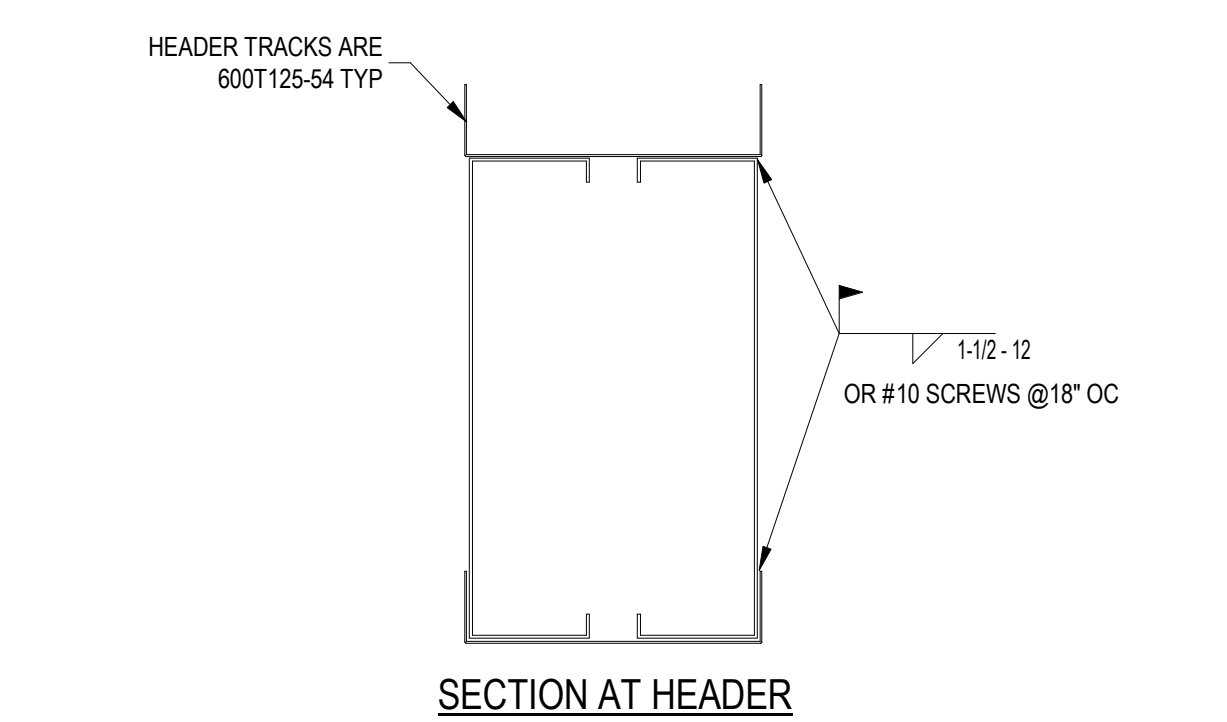


CFS DROPPED HEADER WALL ELEVATION

COLD FORMED HEADER SCHEDULE AND ELEVATION

MARK	HEADER ⁽³⁾	JAMBS	HEADER CLIP ⁽²⁾
H1	2 - 600S162-54	(2) 600S162-54	2 - 16 SCREW HE(L) STIFF CLIP
H2	2 - 600S200-66	(3) 600S162-54	2 - 16 SCREW HE(L) STIFF CLIP

NOTES:
 1. INSULATION REQUIRED IN ALL HEADERS
 2. FOR REQUIRED SCREW PATTERN SEE THE STEEL NETWORK CATALOG
 3. NO PUNCHOUTS OR HOLES ALLOWED IN HEADER
 4. JAMB STUD GAGE SHALL MATCH TYPICAL STUD FRAMING AT THAT LEVEL
 5. FHX INDICATES FLUSH HEADER, STIFFENERS REQUIRED EACH END OF FLUSH HEADERS.



SECTION AT HEADER T&B TRACK AND JOISTS
TYPE 1 - DROPPED HEADERS

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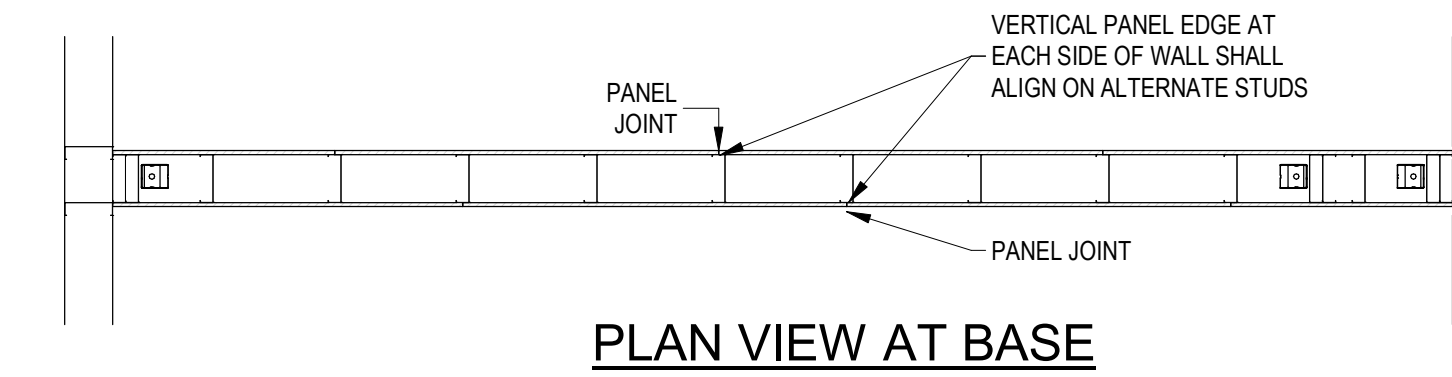
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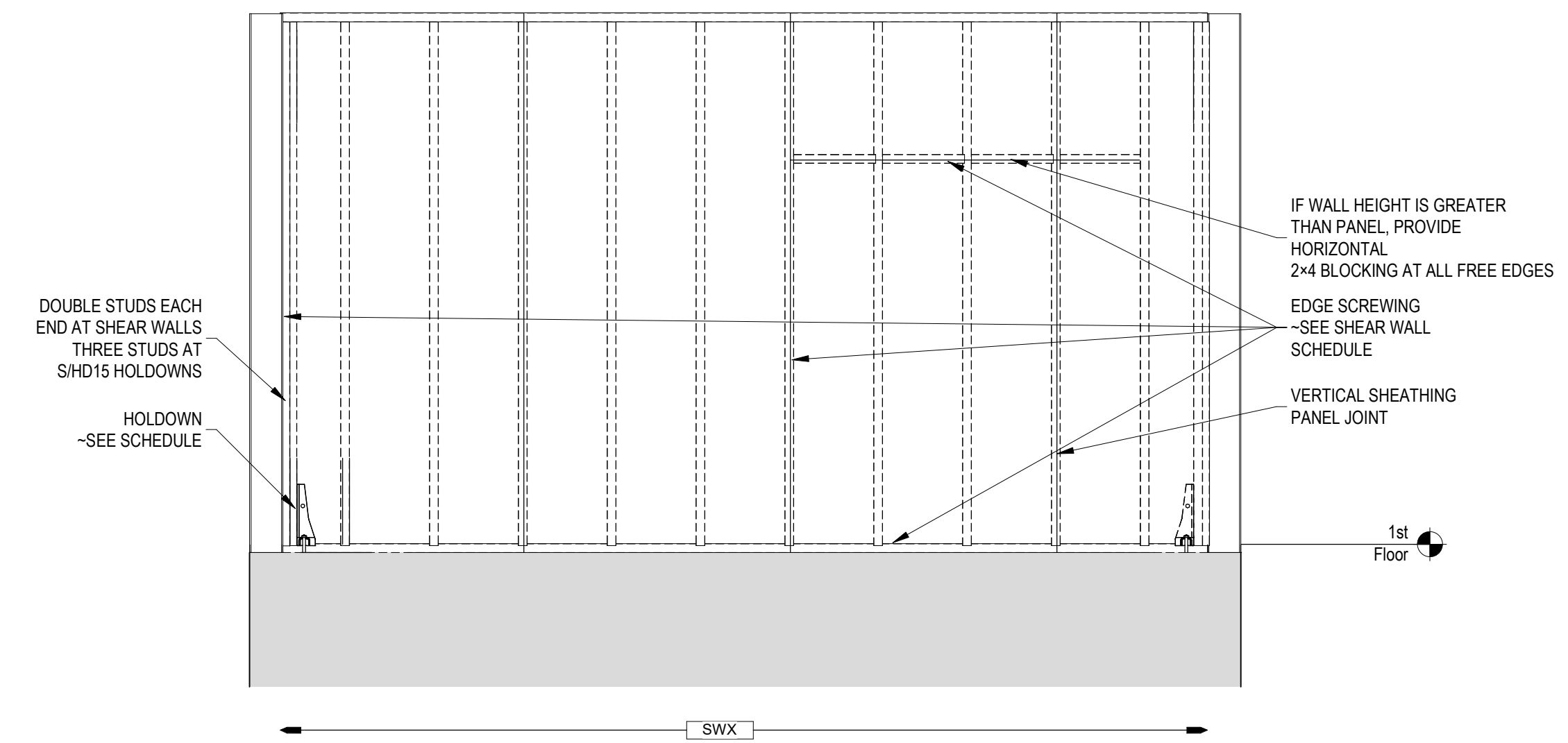
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CFS WALL SCHEDULES AND DETAILS

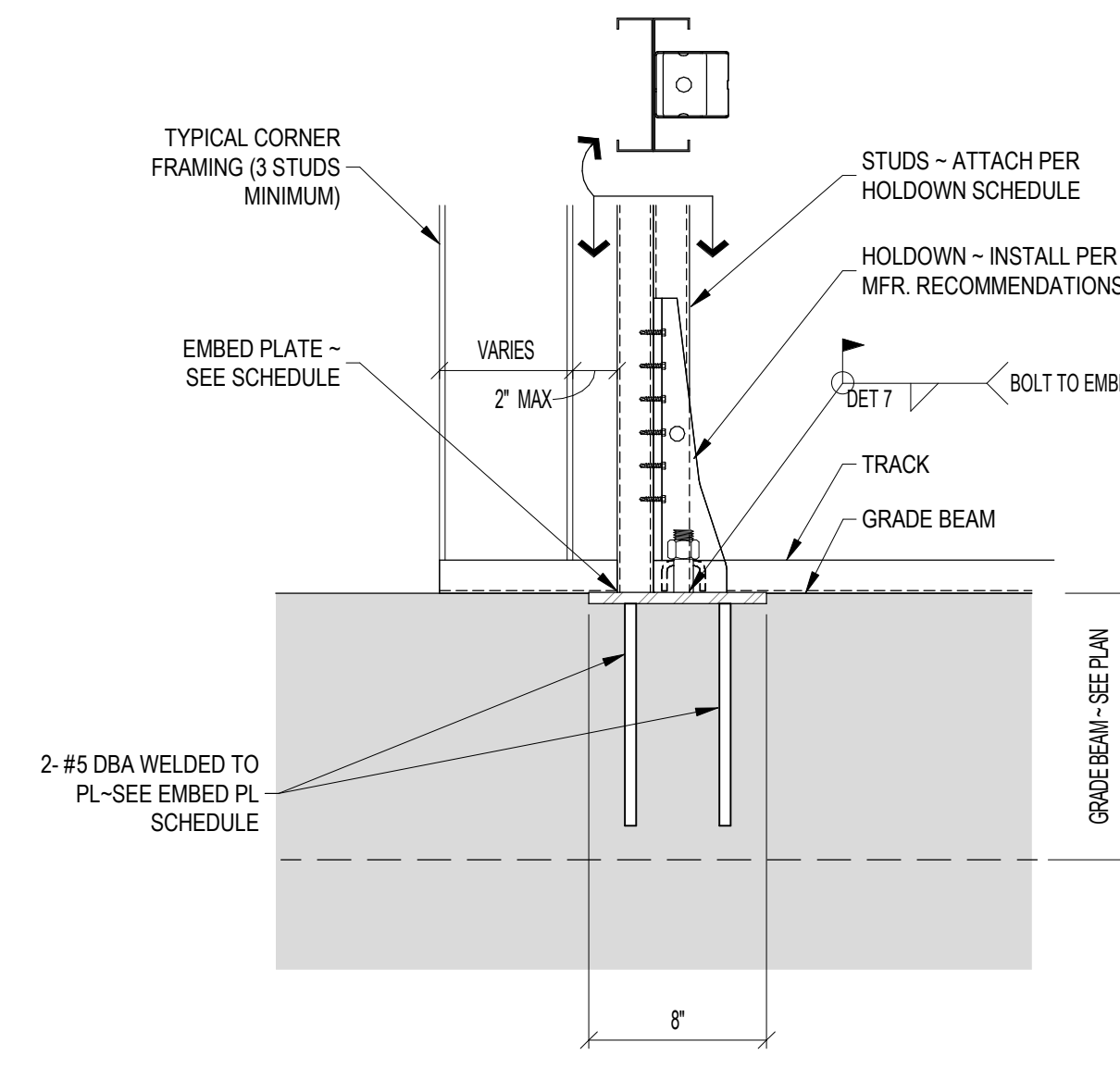
S503



PLAN VIEW AT BASE



1 SHEAR WALL ELEVATION - SEGMENTED
1/2" = 1'-0"



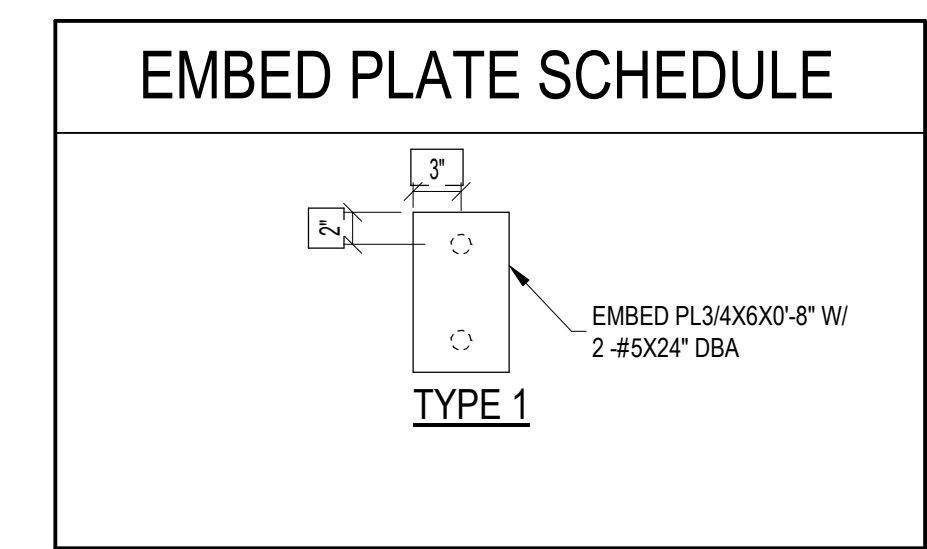
2 HOLDOWN DETAIL AT EMBED GRADE BEAM
1/12" = 1'-0"

SHEATHING ATTACHMENT W/ #8 SCREWS ^[3]				
TYPE ^[2]	EDGE SPACING	INTERMEDIATE SPACING	PAF	SERVICE CAPACITY
SW6	6" OC	12" OC	0.145' ¹⁰ @ 4" OC	678 pft

NOTES:
 1. BLOCK ALL UNSUPPORTED EDGES.
 2. PANELS SHALL BE INSTALLED HORIZONTALLY OR VERTICALLY AND SHALL BE AT LEAST 16" WIDE X 96".
 3. SCREWS SHALL BE LONG #8 SELF DRILLING / SELF TAPPING SCREWS SHANK DIAMETER (0.138") MINIMUM 0.3145" HEAD DIAMETER AND BE 1 1/4" LONG. SCREWS SHALL COMPLY WITH SAE J78 AND ASTM C954. SCREW FASTENER HEAD MUST BE FLUSH WITH PANEL SURFACE AND PENETRATE INTO THE COLD FORMED STEEL FRAMING MEMBER A MINIMUM OF THREE EXPOSED THREADS. FASTENER MUST BE INSTALLED AT A MINIMUM 3/8" EDGE DISTANCE.
 4. DOUBLE STUDS ARE REQUIRED AT EACH END OF ALL SHEAR WALLS.
 5. STEEL FACE OF PANEL SHALL ABUT STUD.

CFS HOLDOWN SCHEDULE					
MARK	HOLDOWN	THREADED ANCHOR	STUD FASTENERS	EMBED PLATES	ALLOWABLE HOLDOWN CAPACITY (LBS) ^[5]
4	SHDU4	5/8"Ø	6-#14	TYPE I	2550
9	SHDU9	5/8"Ø	18-#14	TYPE I	6750

NOTES:
 1. PROVIDE ALL SPECIFIED FASTENERS AND ANCHOR BOLTS AS REQUIRED BY HOLDOWN.
 2. PROVIDE DOUBLE (BACK-TO-BACK) STUD MEMBERS AT EACH END OF SHEAR WALL TO FASTEN EACH HOLDOWN, UNLESS NOTED OTHERWISE.
 3. USE STD #14 SELF DRILLING SCREWS TO FASTEN STUD (OR 1/4" SELF DRILLING SCREWS CAN BE SUBSTITUTED). ANCHOR BOLT WASHER IS NOT REQUIRED.
 4. HOLDOWN TENSION CAPACITY IS GIVEN IN ASD.
 5. USE TYPE 2 EMBED PLATE AT DOUBLE SHDU9 HOLDOWN.
 7. THREE STUDS REQUIRED AT SHD15 HOLDOWNS.



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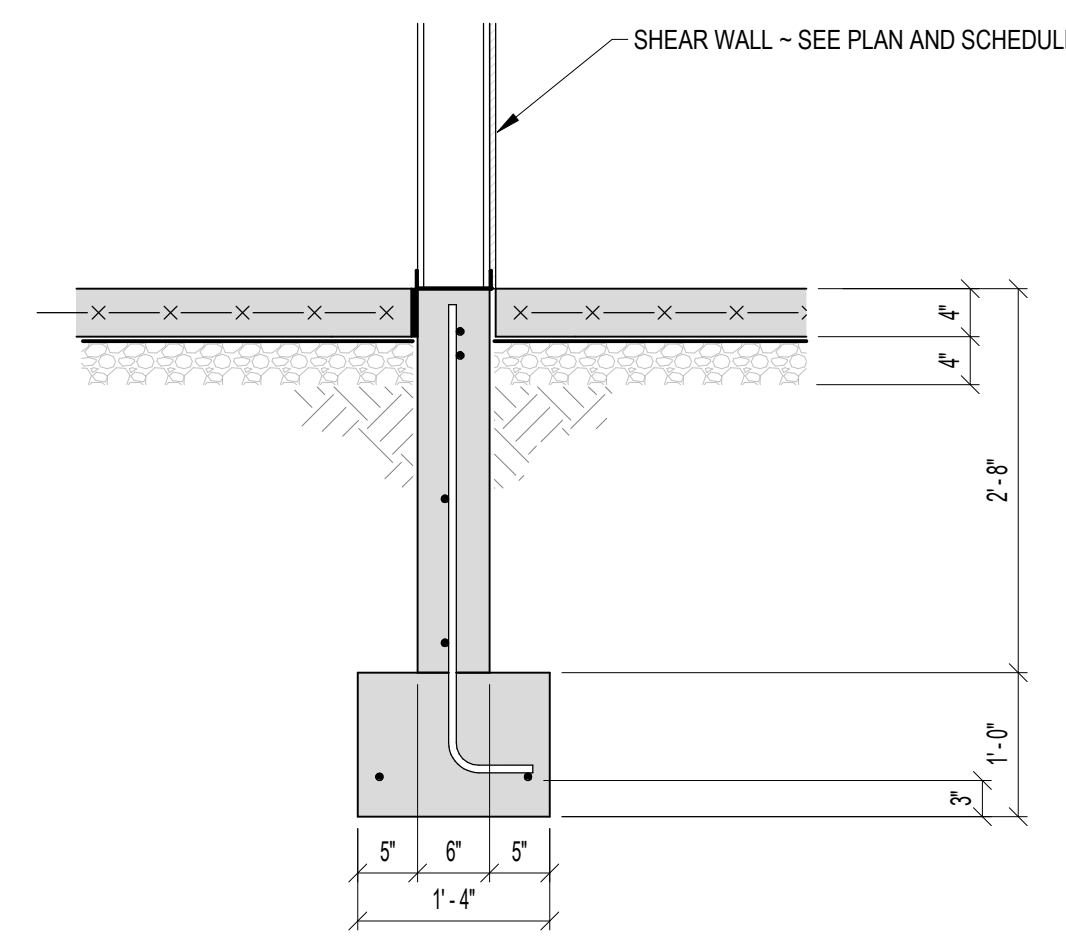
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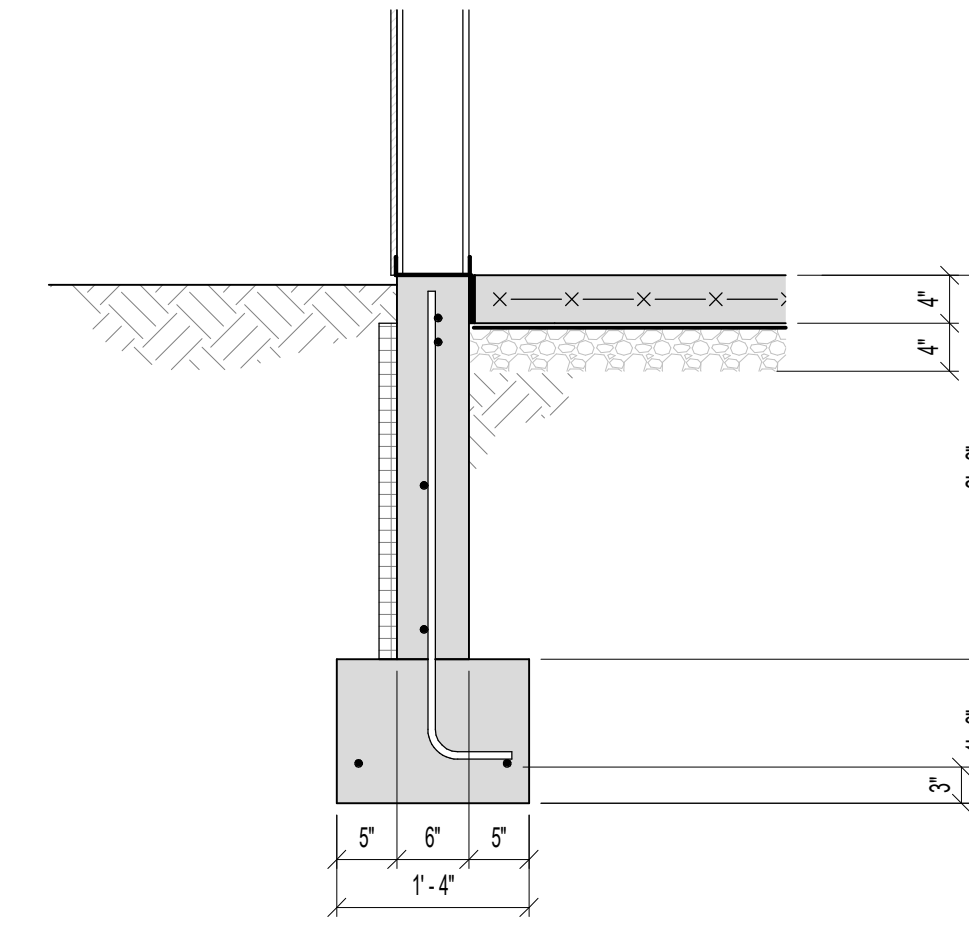
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CFS SHEAR WALL TYPICAL DETAILS

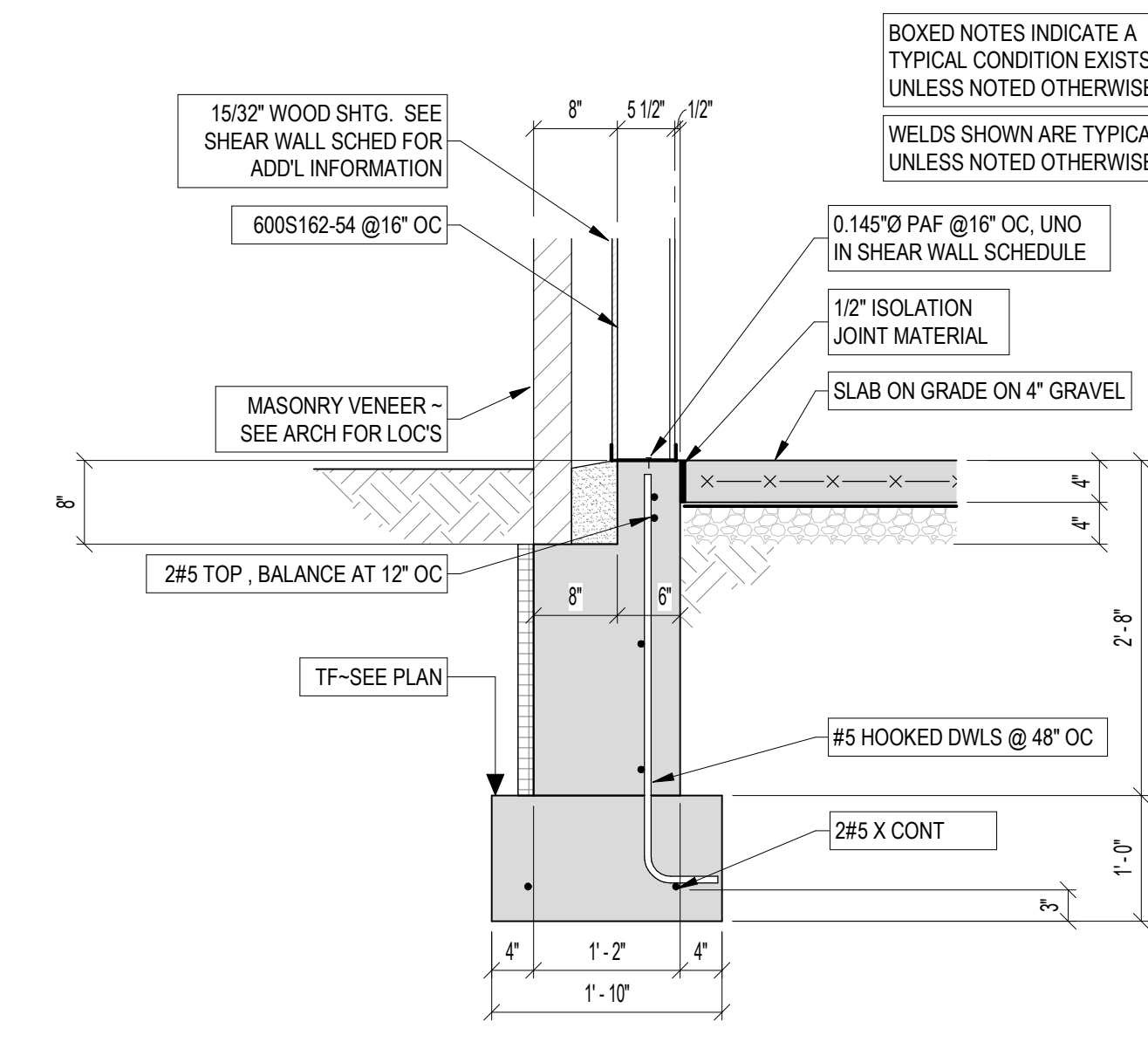
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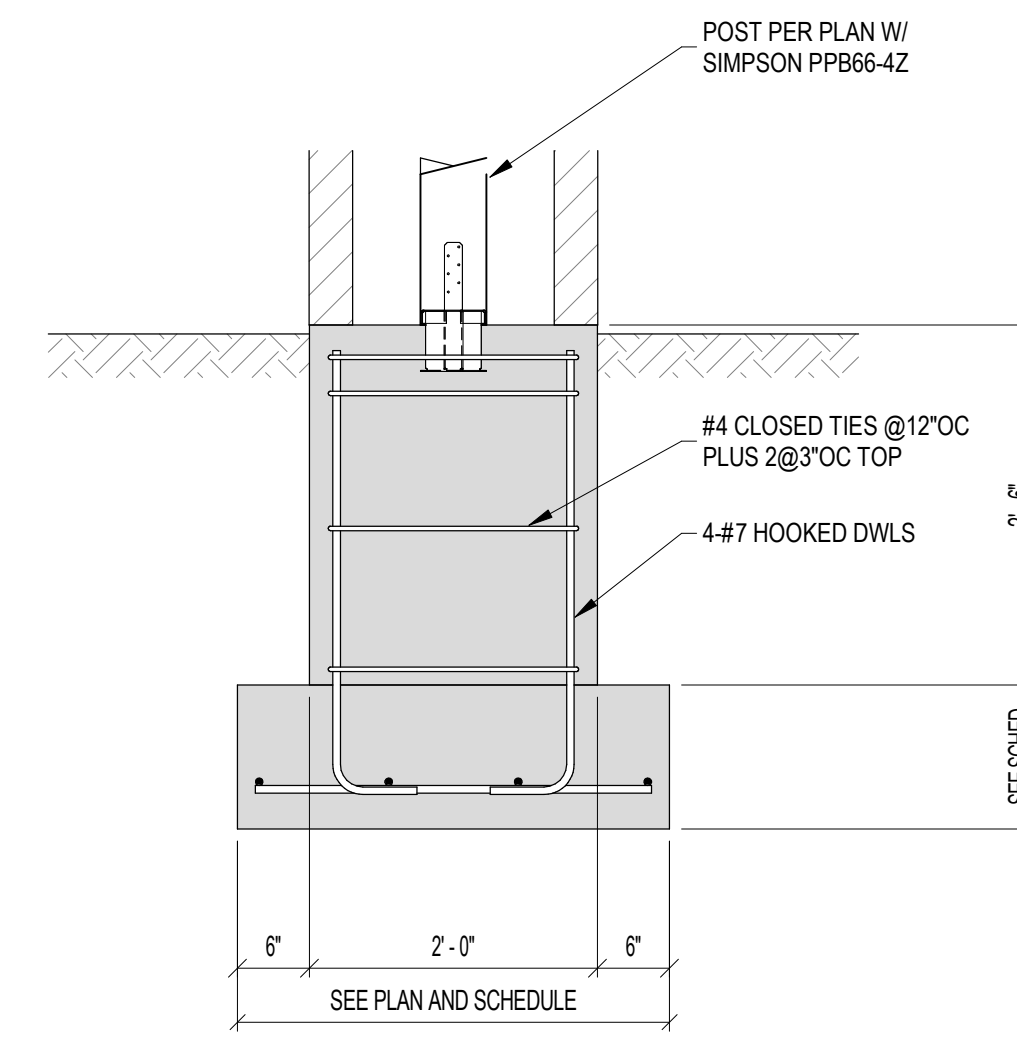
8 INTERIOR SHEAR WALL
3/4" = 1'-0"



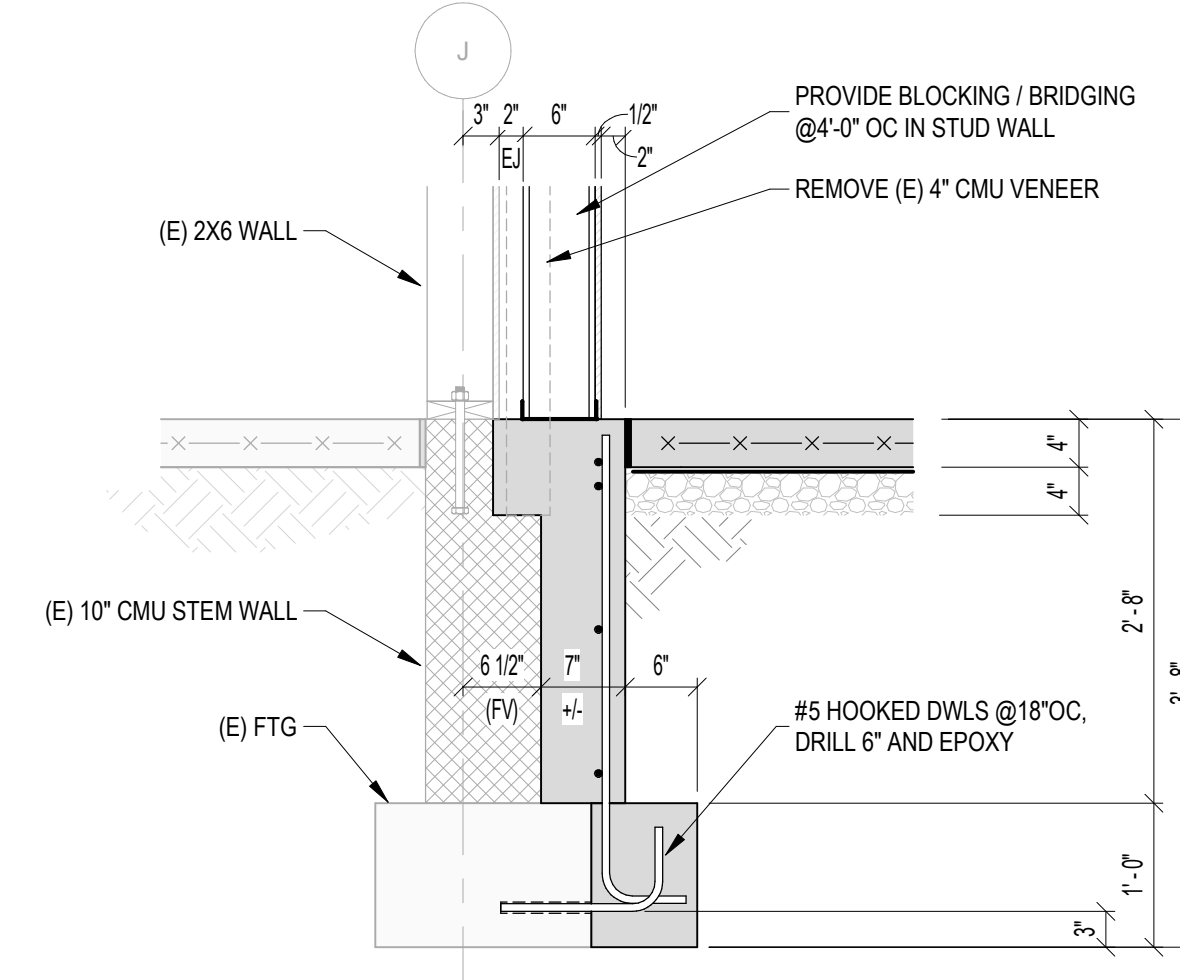
5 GRADE BEAM AND FOOTING - NO MASONRY
3/4" = 1'-0"



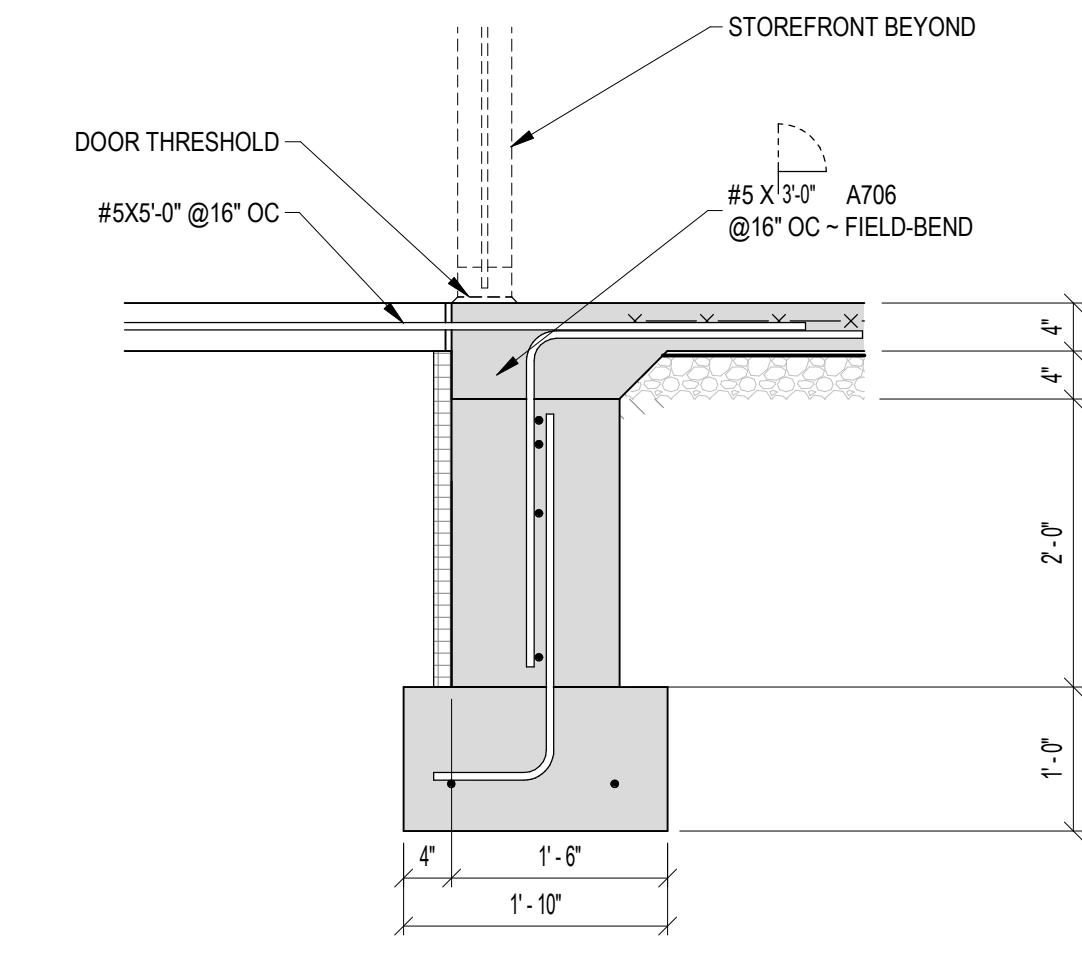
1 GRADE BEAM AND FOOTING WITH MASONRY
3/4" = 1'-0"



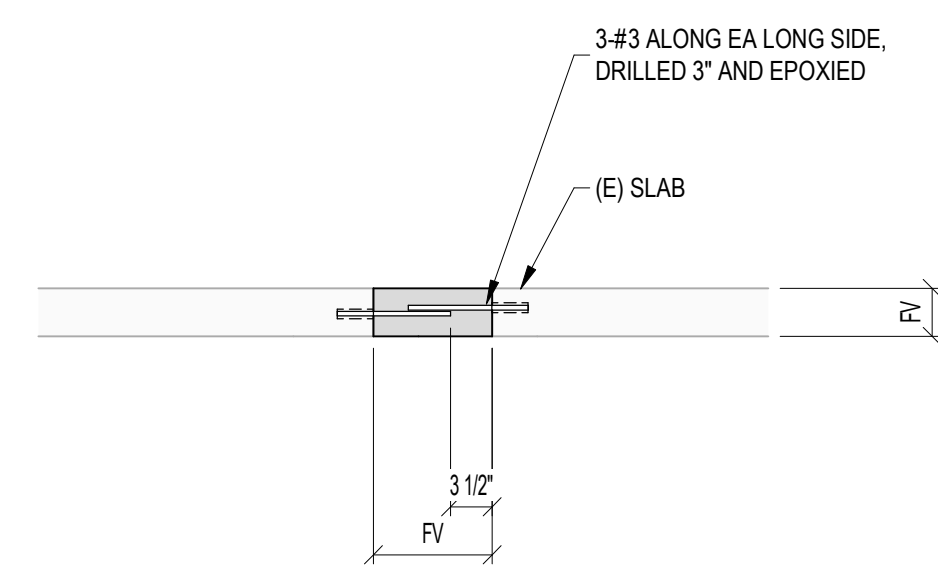
9 EXTERIOR PEDESTAL
3/4" = 1'-0"



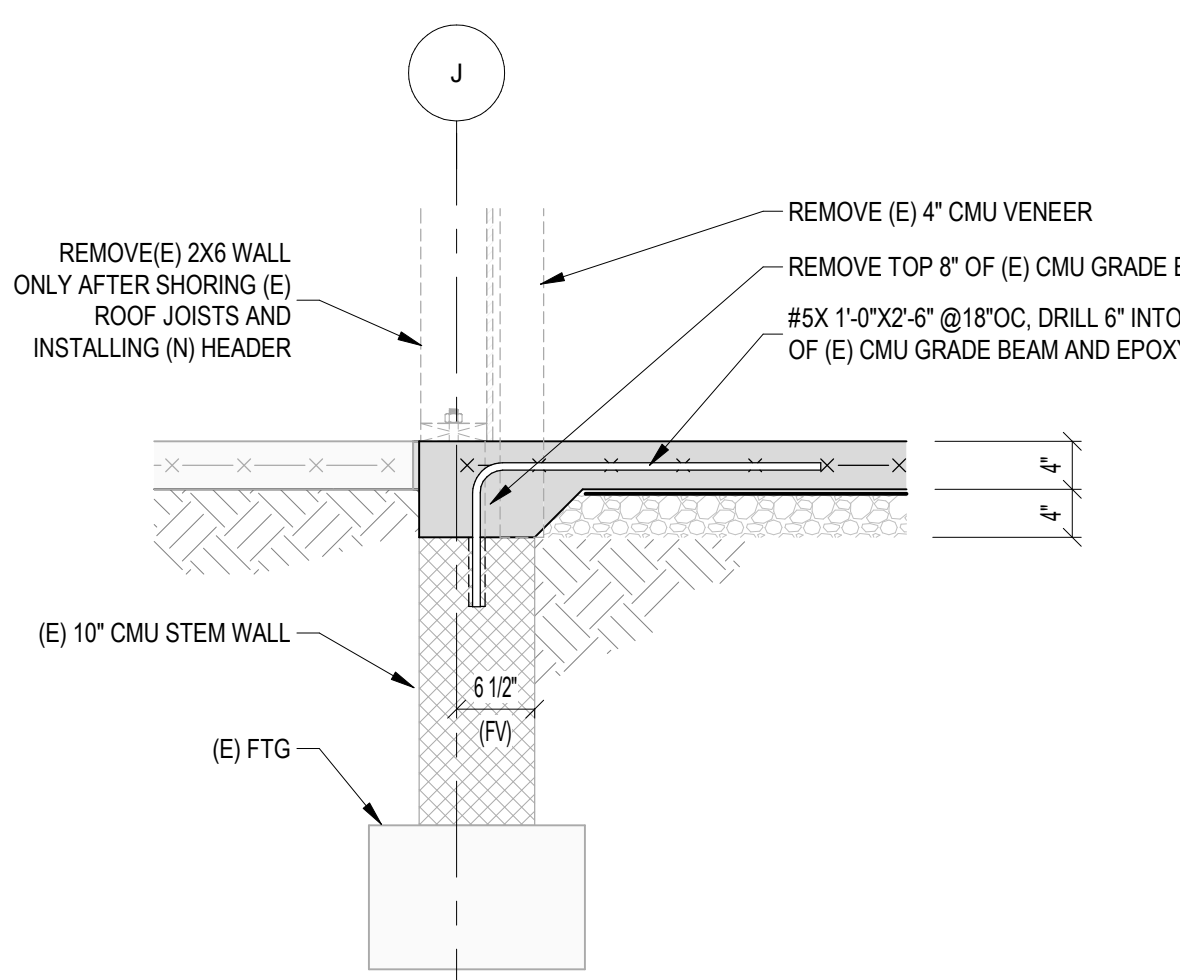
6 FOUNDATION AT EXISTING WALL
3/4" = 1'-0"



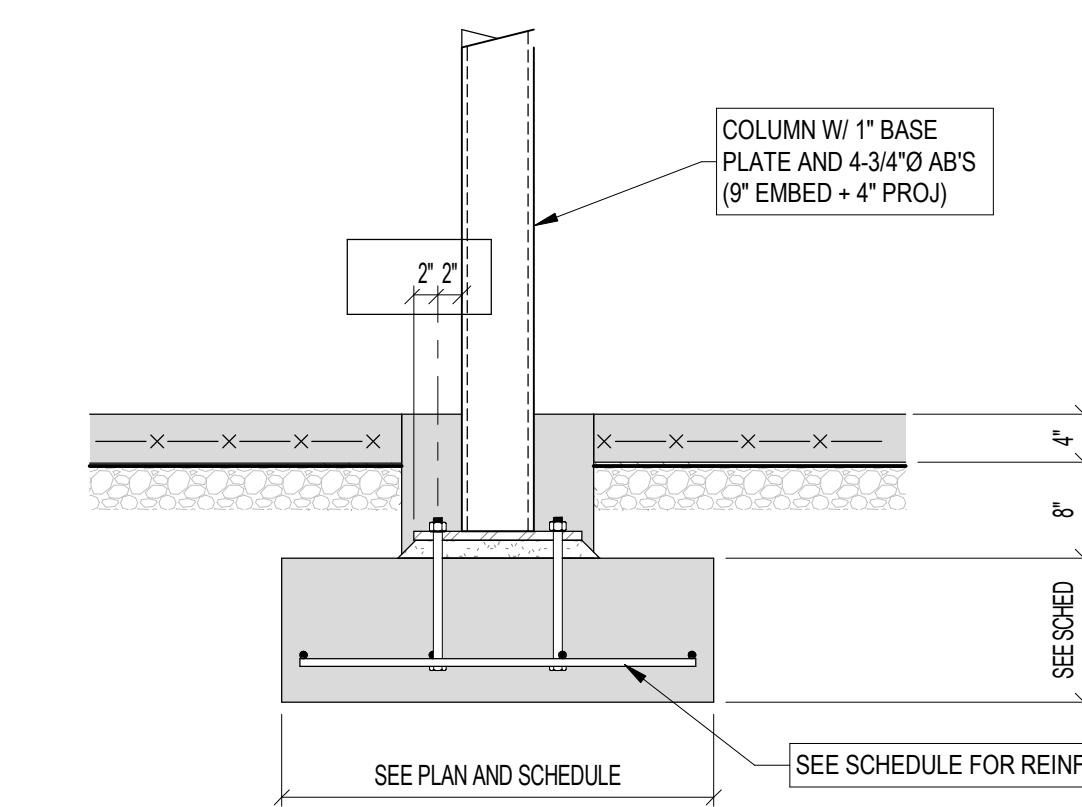
2 THRESHOLD
3/4" = 1'-0"



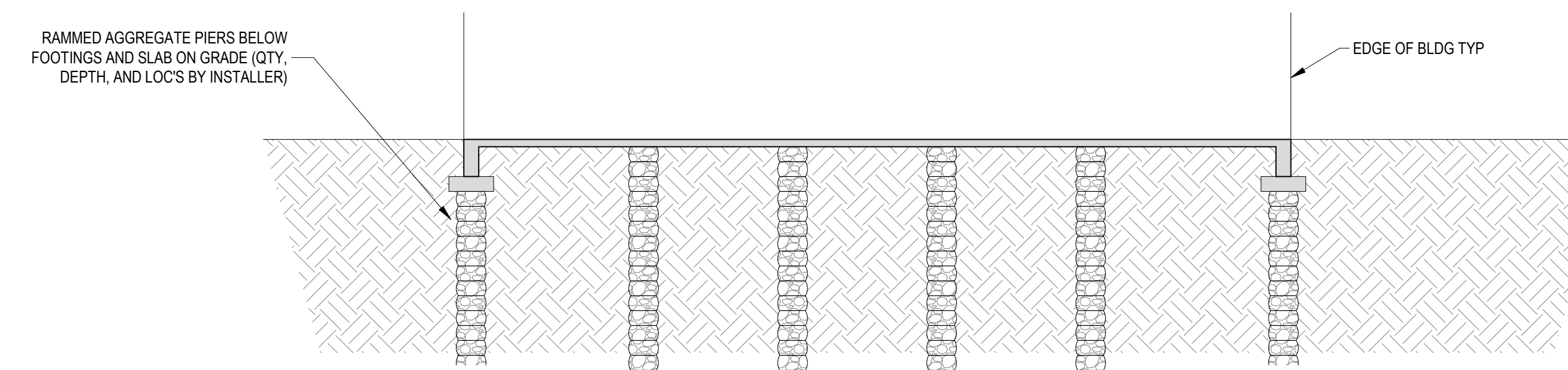
10 FLOOR DUCT INFILL
3/4" = 1'-0"



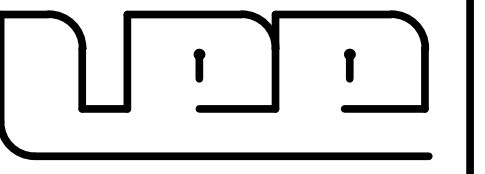
7 NEW SLAB POUR OVER AT EXSTG GRADE BEAM
3/4" = 1'-0"



3 INTERIOR FOOTING
3/4" = 1'-0"



4 RAMMED AGGREGATE PIERS BELOW BUILDING
1/8" = 1'-0"



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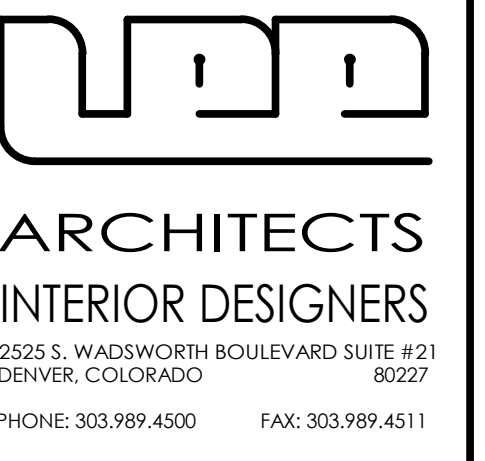
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S505

NAILING SCHEDULE - 2021 IBC

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION	
ROOF			FLOOR			
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL	21. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL, TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2 1/2"x0.131"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES	EACH END, TOENAIL	22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2 1/2"x0.131"); OR 10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" OC, TOENAIL	
	2-16d COMMON (3 1/2"x0.162"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES	END NAIL		23. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128")	FACE NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3 1/2"x0.162"); OR 6" OC 3"x0.131" NAILS; OR 3"x14 GAGE STAPLES @6" OC	FACE NAIL	24. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL	
	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL	25. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2-16d COMMON (3 1/2"x0.162")	EACH BEARING, FACE NAIL	
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL	26. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4"x0.192")	32" OC, FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL		10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" OC, FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL	AND: 2-20d COMMON (4"x0.192"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL		
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d COMMON (3 1/2"x0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL	
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148"); OR 3-16d BOX (3 1/2"x0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	28. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON (3 1/2"x0.162"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL	
	3-10d COMMON (3"x0.148"); OR 4-16d BOX (3 1/2"x0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL		WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING^a		
WALL			30. 3/8" - 1/2"	6d COMMON OR DEFORMED (2"x0.113"); OR (SUBFLOOR AND WALL)	6	12
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR 10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	24" OC FACE NAIL		8d COMMON OR DEFORMED (2 1/2"x0.113) (ROOF); RRSR-01 (2 3/8"x0.113) NAIL (ROOF); ^b	6	12
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR 16d BOX (3 1/2"x0.135)	16" OC FACE NAIL	2 3/8"x0.113" NAIL (SUBFLOOR AND WALL)	6	12	
	3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	12" OC FACE NAIL	1 3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL)	4	8	
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3 1/2"x0.162"); OR 16d BOX (3 1/2"x0.135)	16" OC EACH EDGE FACE NAIL	2 3/8"x0.113" NAIL (ROOF)	4	8	
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131"); OR 4-10d BOX (3"x0.128")	TOENAIL	1 3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	3	6	
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162"); OR 10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	16" OC FACE NAIL	134" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	6	12	
	16d COMMON (3 1/2"x0.162"); OR 3-16d BOX (3 1/2"x0.135); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	12" OC FACE NAIL	8d COMMON (2 1/2"x0.131"); OR 8d DEFORMED (2"x0.113) (SUBFLOOR AND WALL)	6	12	
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON (3 1/2"x0.162"); OR 12-10d BOX (3"x0.128"); OR 12-3"x0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	8d COMMON OR DEFORMED (2 1/2"x0.131) (ROOF); OR RRSR-01 (2 3/8"x0.113) NAIL (ROOF); ^b	6	12	
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR 16d BOX (3 1/2"x0.135); OR 3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	16" OC FACE NAIL	2 3/8"x0.113" NAIL (SUBFLOOR AND WALL)	4	8	
	16d COMMON (3 1/2"x0.162"); OR 3-16d BOX (3 1/2"x0.135); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	12" OC FACE NAIL	2" 16 GAGE STAPLE, 7/16" CROWN	6	12	
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON (3 1/2"x0.162"); OR 3-16d BOX (3 1/2"x0.135); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" OC FACE NAIL	10d COMMON (3"x0.148"); OR 8d DEFORMED (2 1/2"x0.113)	6	12	
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	OTHER EXTERIOR WALL SHEATHING			
	2-16d COMMON (3 1/2"x0.162"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	33. 1/2" FIBERBOARD SHEATHING ^c	1 1/2" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	34. 25/32" FIBERBOARD SHEATHING ^c	1 3/4" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1 1/2" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
18. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	35. 3/4" AND LESS	8d COMMON (2 1/2"x0.131"); OR 8d DEFORMED (2"x0.113)	6	12
	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	36. 7/8" - 1"	8d COMMON (2 1/2"x0.131"); OR 8d DEFORMED (2 1/2"x0.131)	6	12
19. 1"x6" SHEATHING TO EACH BEARING	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128")	FACE NAIL	37. 1 1/8" - 1 1/4"	10d COMMON (3"x0.148"); OR 8d DEFORMED (2 1/2"x0.113)	6	12
	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128")	FACE NAIL	PANEL SIDING TO FRAMING			
20. 1"x8" AND WIDER SHEATHING TO EACH BEARING	2-8d COMMON (2 1/2"x0.131"); OR 2-10d BOX (3"x0.128")	FACE NAIL	38. 1/2" OR LESS	6d CORROSION-RESISTANT SIDING (1 7/8"x0.106"); OR 6d CORROSION-RESISTANT CASING (2"x0.099)	6	12
	3-8d COMMON (2 1/2"x0.131"); OR 3-10d BOX (3"x0.128")	FACE NAIL	39. 5/8"	8d CORROSION-RESISTANT SIDING (2 3/8"x0.128"); OR 8d CORROSION-RESISTANT CASING (2 1/2"x0.113)	6	12
			INTERIOR PANELING			
			40. 1/4"	4d CASING (1 1/2"x0.080"); OR 4d FINISH (1 1/2"x0.072)	6	12
			41. 3/8"	6d CASING (2"x0.099); OR 6d FINISH (PANEL SUPPORTS AT 24")	6	12
<p>FOR S₁: 1 INCH = 25.4mm</p> <p>a. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.</p> <p>b. SPACING SHALL BE 6" OC ON THE EDGES AND 12" OC AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE NOTED.)</p> <p>c. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.</p> <p>d. RRSR-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.</p>						



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CREEKSIDE BIBLE CHURCH
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 2180 I-25
 CASTLE ROCK, CO 80104



Job No: 24010

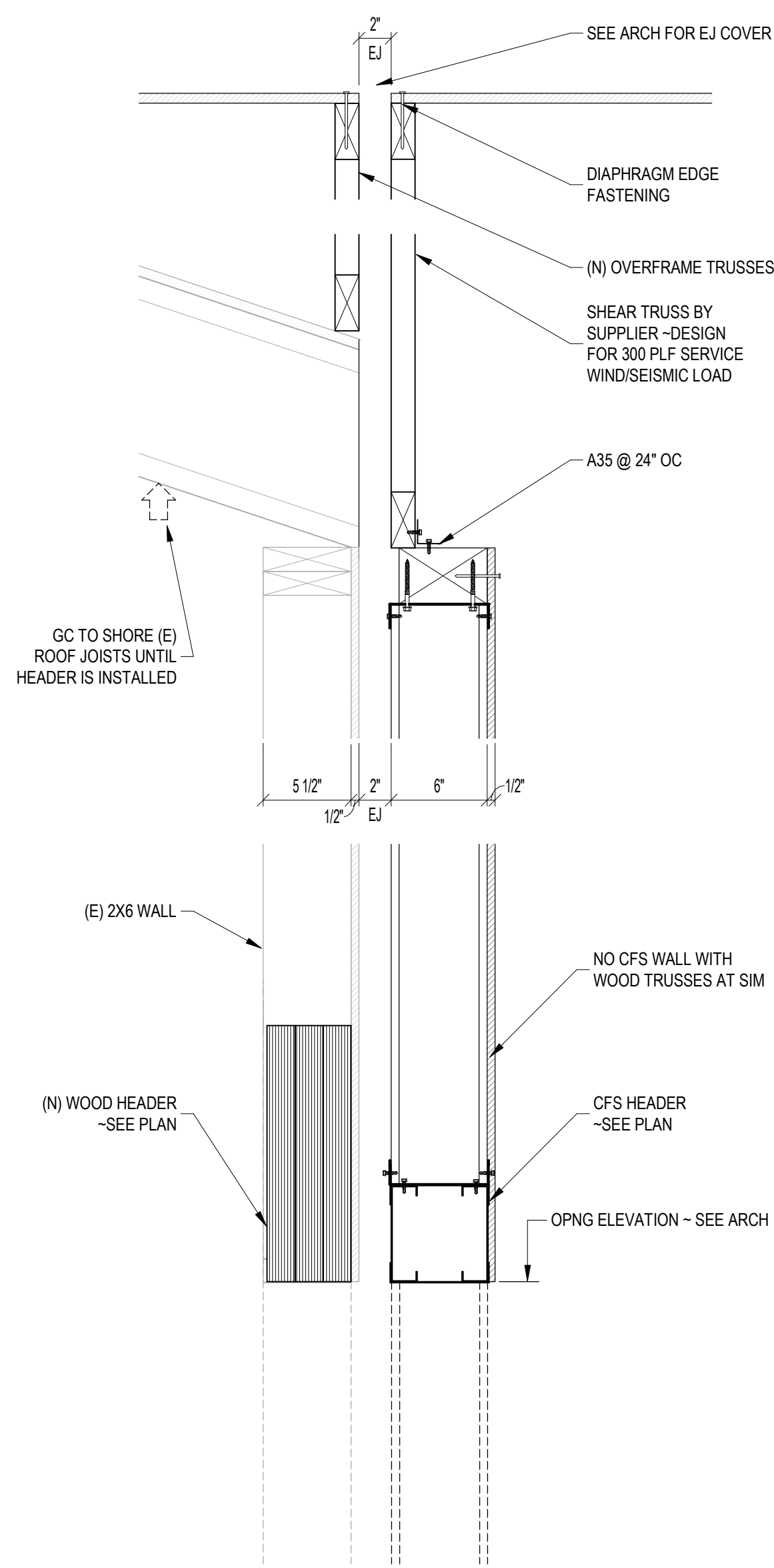
Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date: 11/18/2024

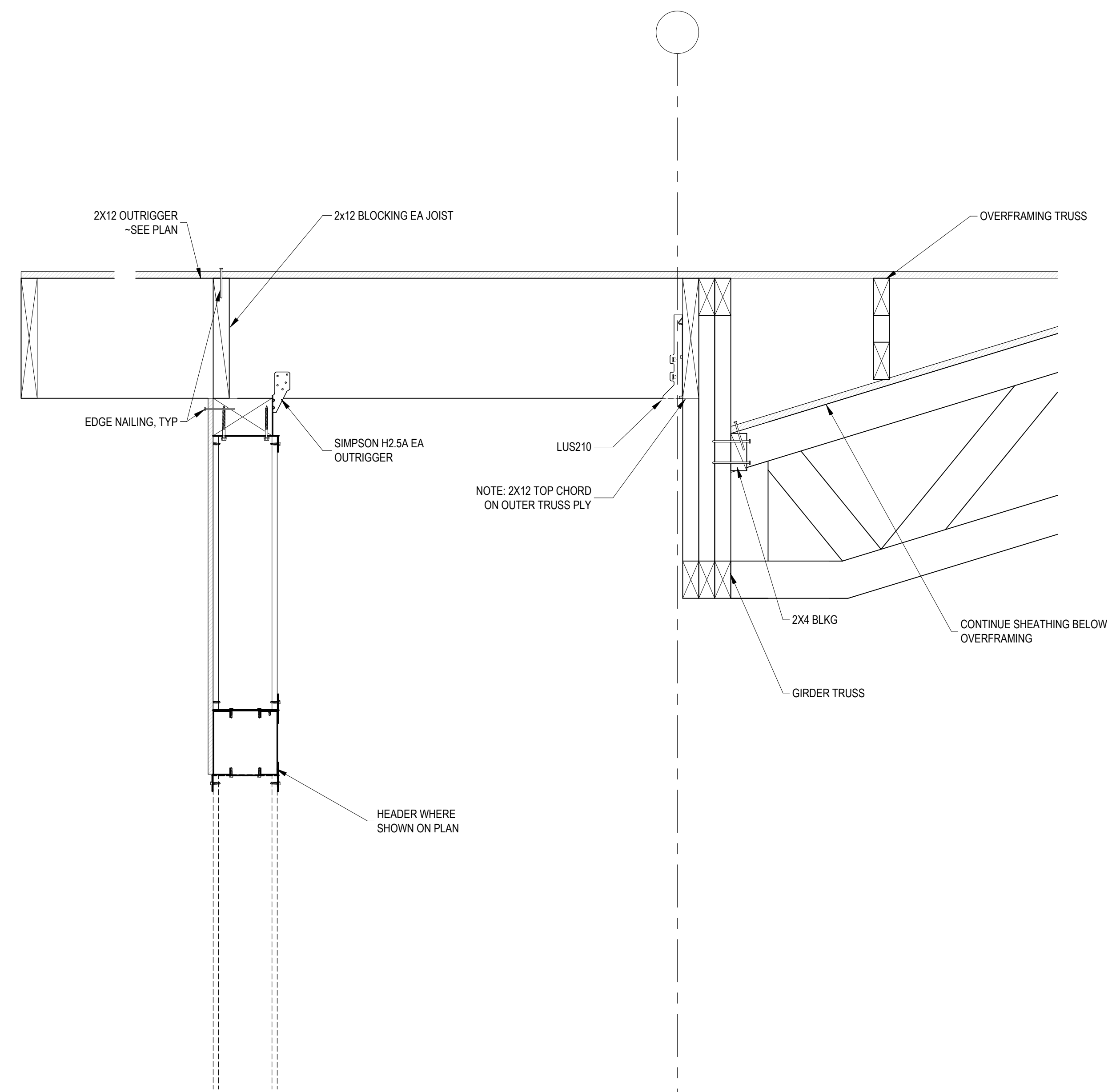
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Checked by: Checker

Title: 2021 IBC NAILING SCHEDULES

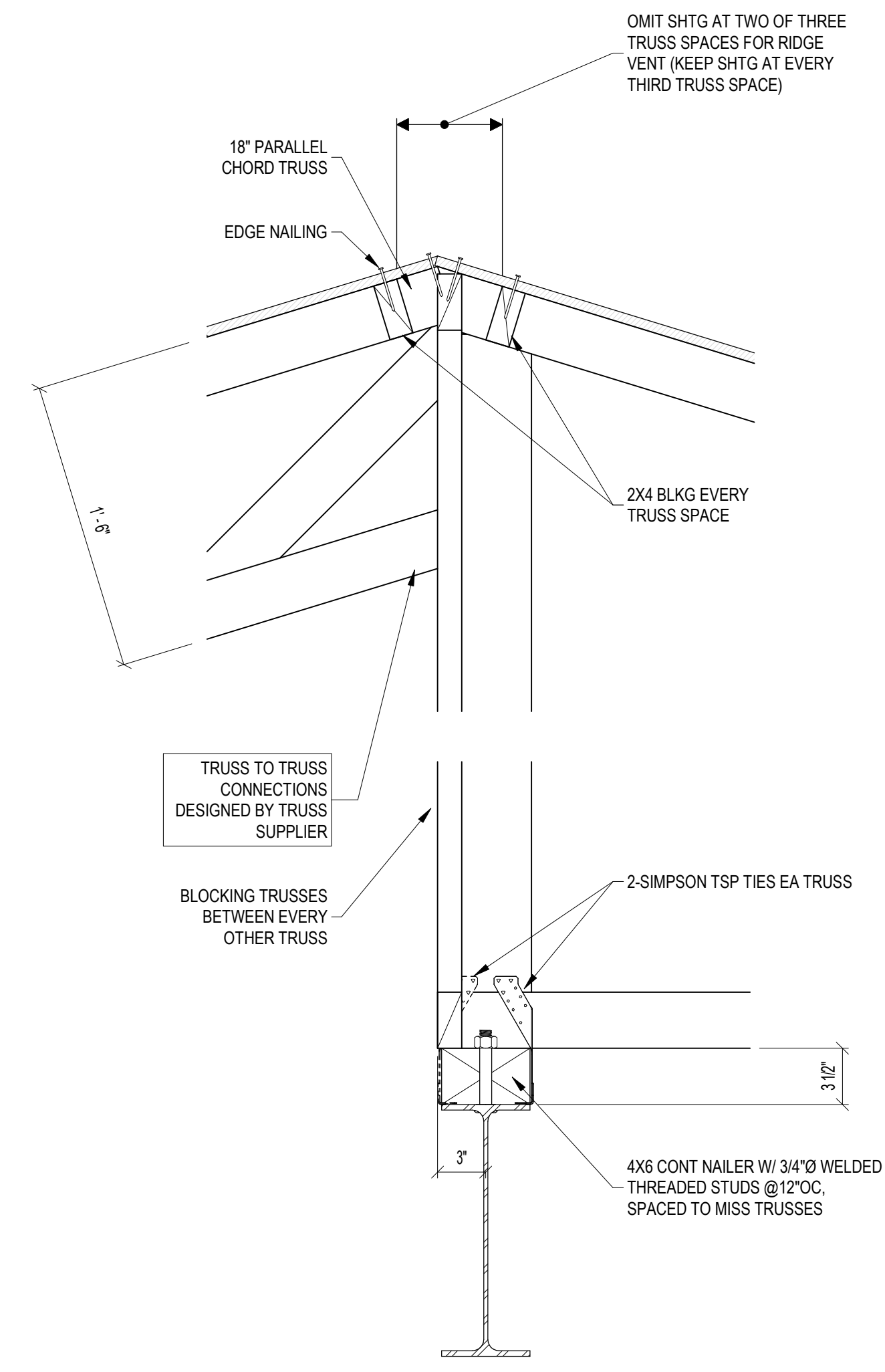
S506



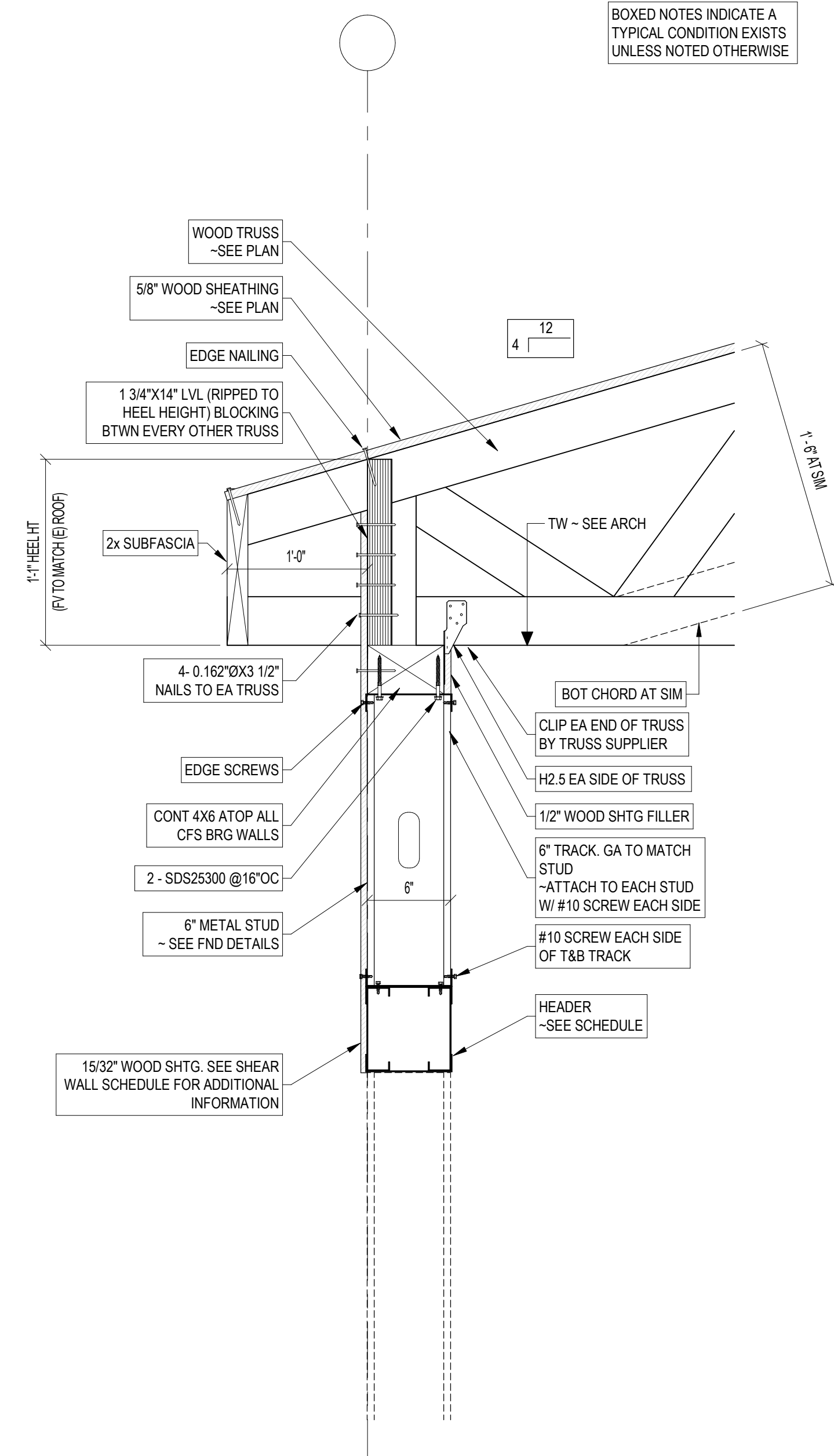
8 NEW ROOF AT EXSTG ROOF WITH HEADERS
1 1/2" = 1'-0"



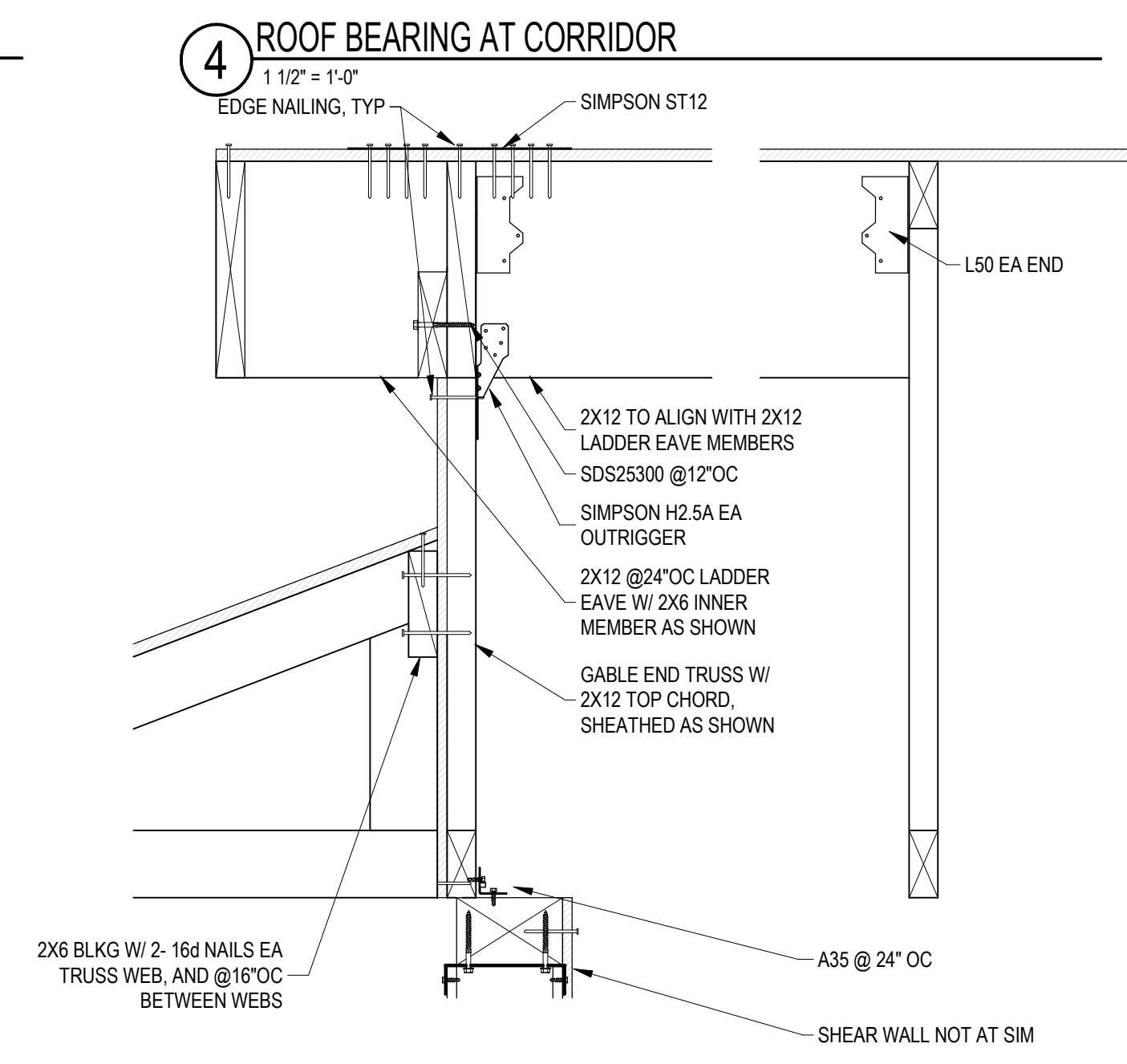
7 GIRDER TRUSS AT BUMP OUT
1 1/2" = 1'-0"



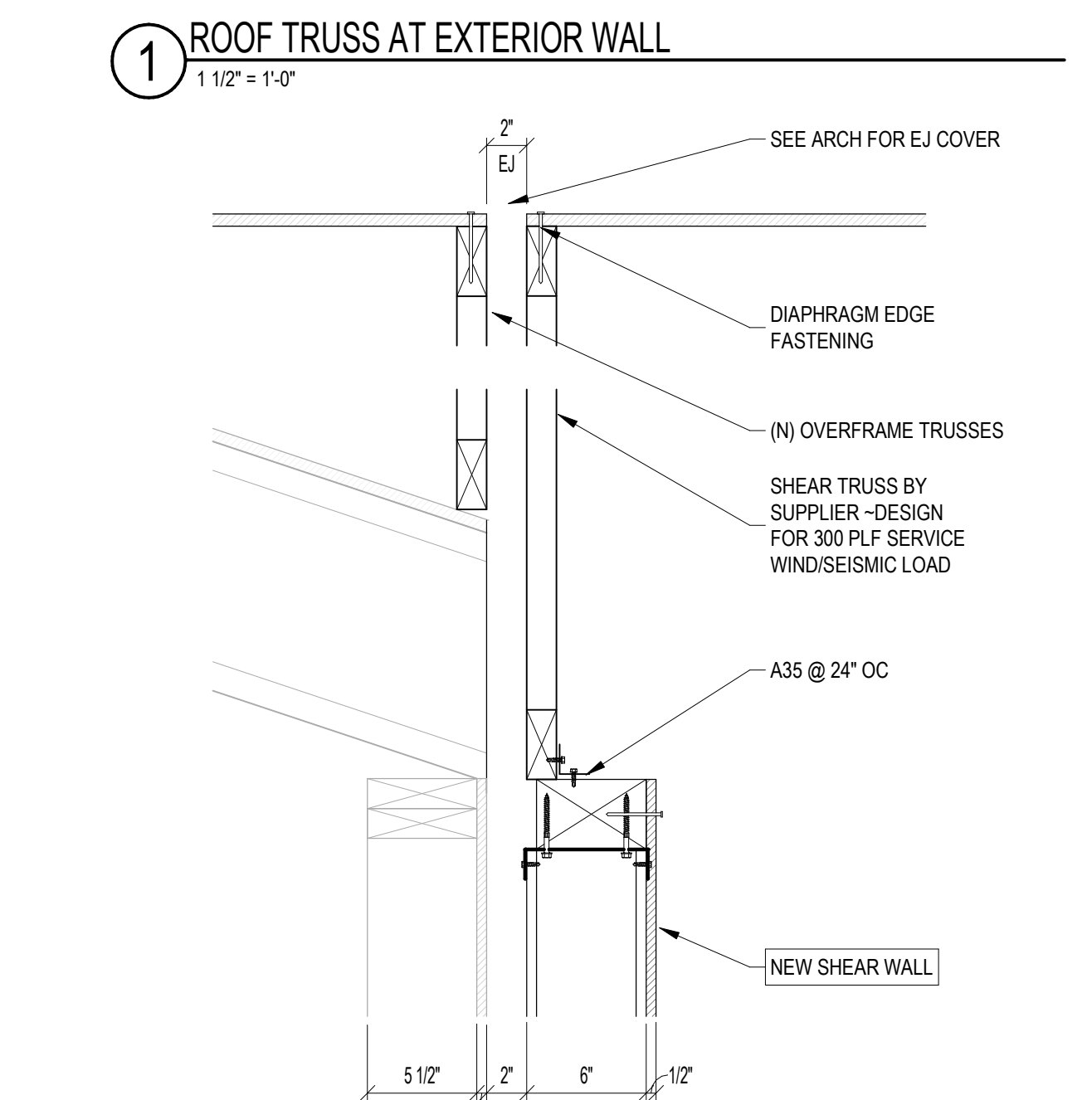
4 ROOF BEARING AT CORRIDOR
1 1/2" = 1'-0"



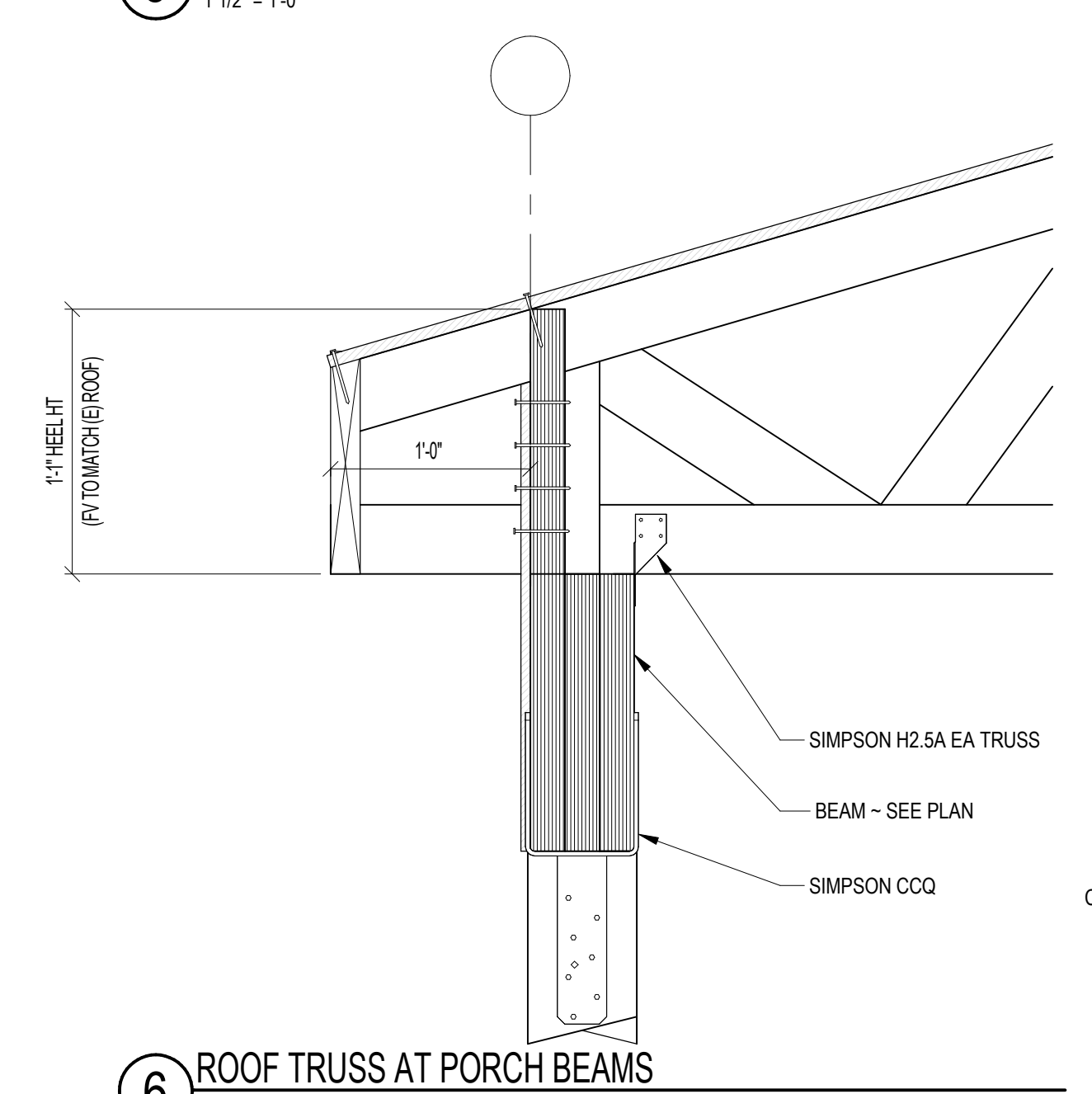
1 ROOF TRUSS AT EXTERIOR WALL
1 1/2" = 1'-0"



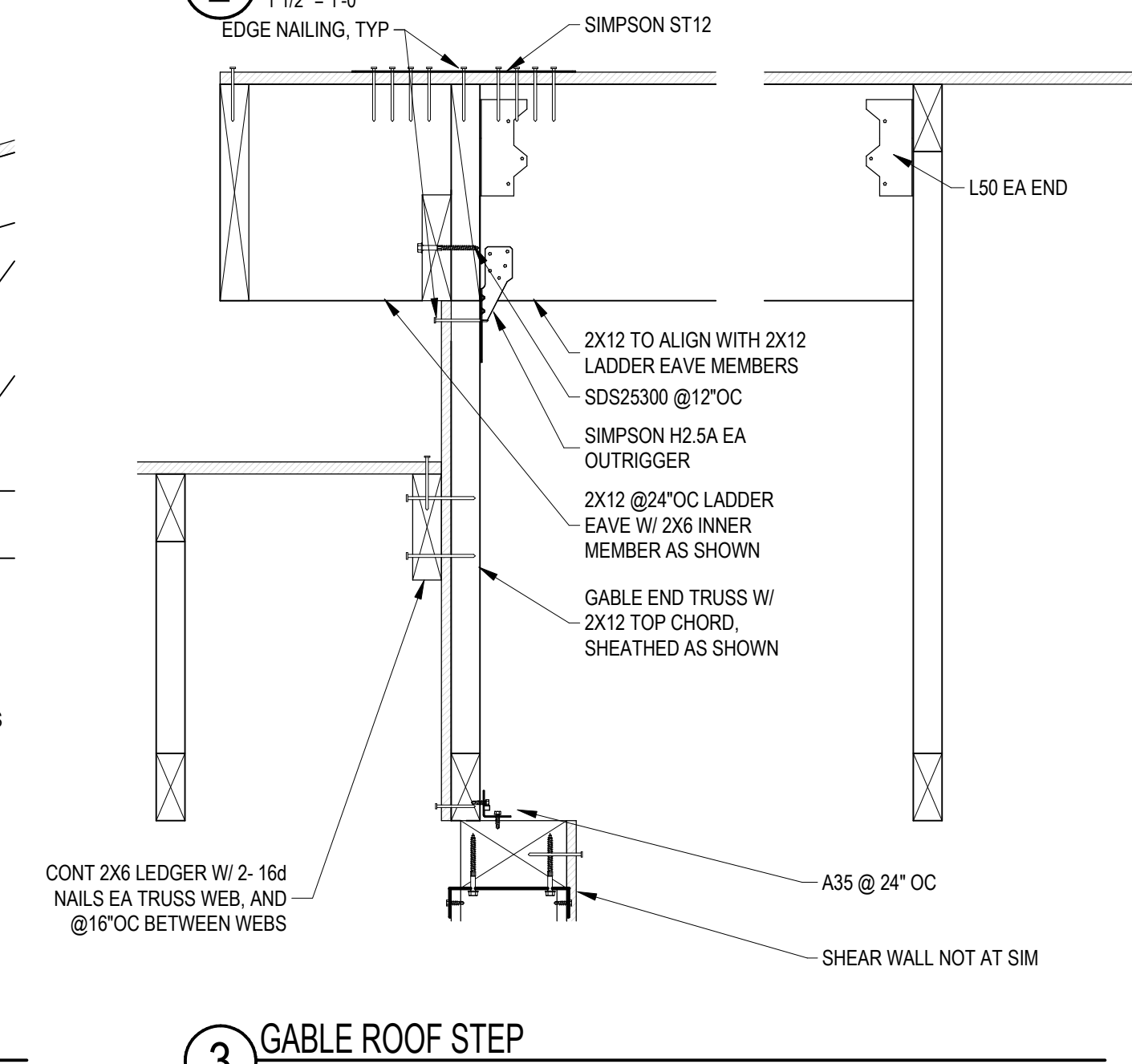
5 DUTCH GABLE ROOF STEP
1 1/2" = 1'-0"



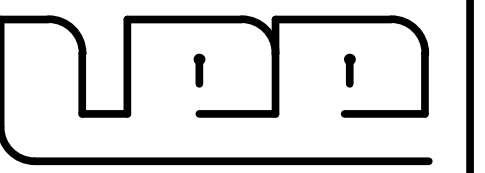
2 NEW ROOF AT EXSTG ROOF
1 1/2" = 1'-0"



6 ROOF TRUSS AT PORCH BEAMS
1 1/2" = 1'-0"



3 GABLE ROOF STEP
1 1/2" = 1'-0"



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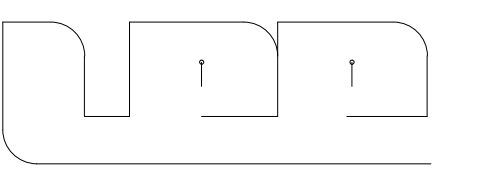
Date: 11/18/2024

Drawn by: Structural
Checked by: rjt

System title: ROOF DETAILS

S507

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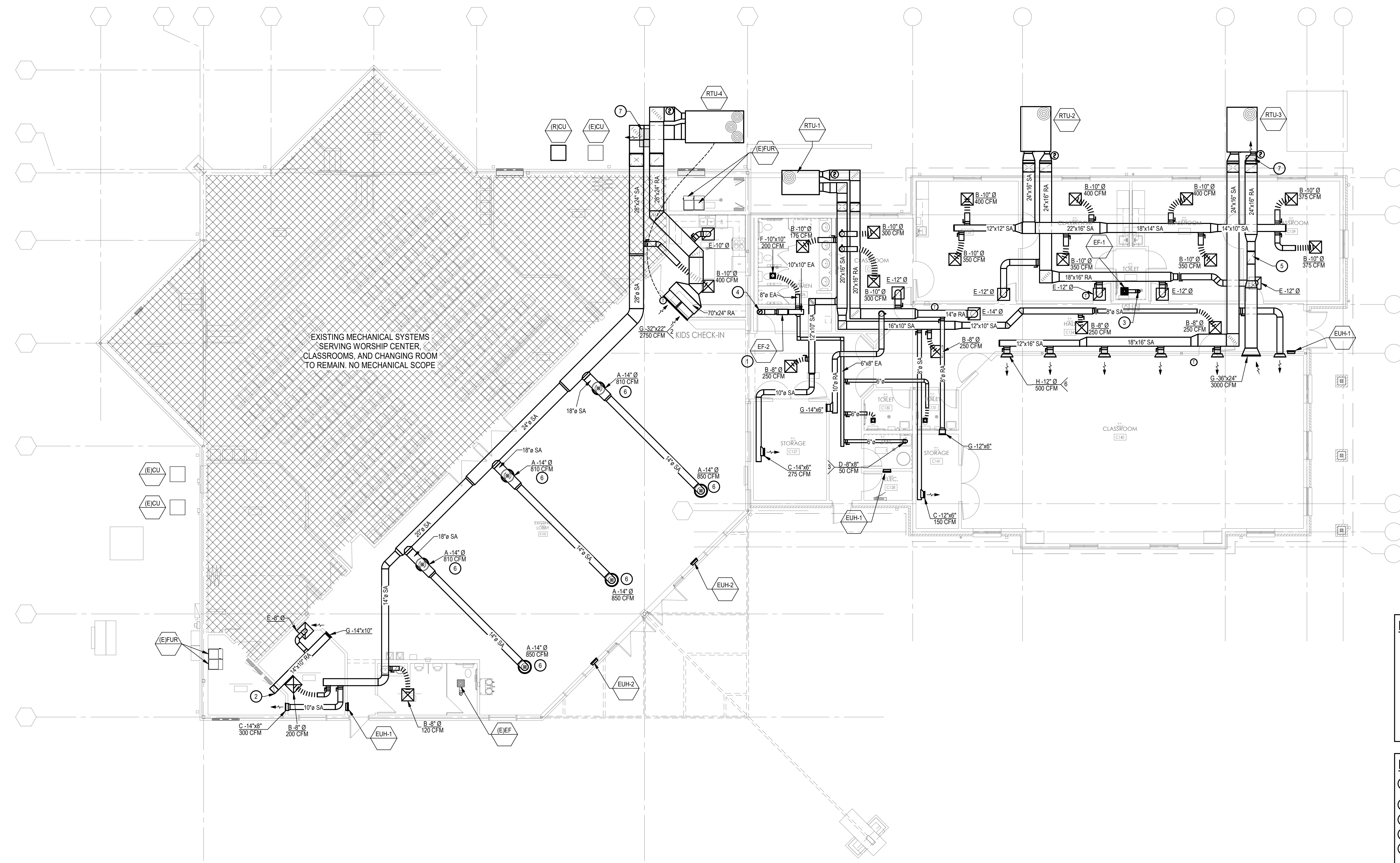
Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date: 11-18-2024

Drawn by: _____ Checked by: _____

Title: FLOOR PLAN - MECHANICAL

M2.01

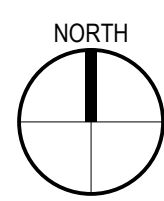


EXISTING MECHANICAL SYSTEMS SERVING WORSHIP CENTER, CLASSROOMS, AND CHANGING ROOM TO REMAIN. NO MECHANICAL SCOPE.

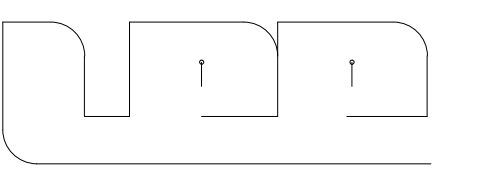
- DRAWING NOTES:**
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS IN VENTILATED LOCKABLE COVERS.
 2. OUTDOOR AIR INTAKES TO BE LOCATED 10' MINIMUM FROM EXHAUST TERMINATIONS.
 3. CEILING DIFFUSERS SHALL BE 36" MIN FROM CEILING MOUNTED SMOKE DETECTORS. COORDINATE WITH FIRE ALARM CONTRACTOR.
 4. UNDERCUT RESTROOM AND JANITOR CLOSET DOORS 3/4" FOR TRANSFER AIR PATHWAY.

- KEY NOTES:**
1. PROVIDE AND INSTALL 24V ACTUATED MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN.
 2. TERMINATE DUCT HIGH AND PROVIDE BIRDSCREEN.
 3. 6"Ø EA UP THRU ROOF. TERMINATE WITH ROOF CAP.
 4. 10"Ø EA UP THRU ROOF. TERMINATE WITH ROOF CAP.
 5. OFFSET RA UP INTO TRUSS SPACE. INSULATE DUCT WHILE IN TRUSS SPACE PER SPECS.
 6. COORDINATE HEIGHT OF DIFFUSER WITH LIGHTING IN LOBBY AREA. DIFFUSER ELEVATION TO MATCH LIGHTING.
 7. POWER EXHAUST LOCATED ON SIDE OF RA DUCT.

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



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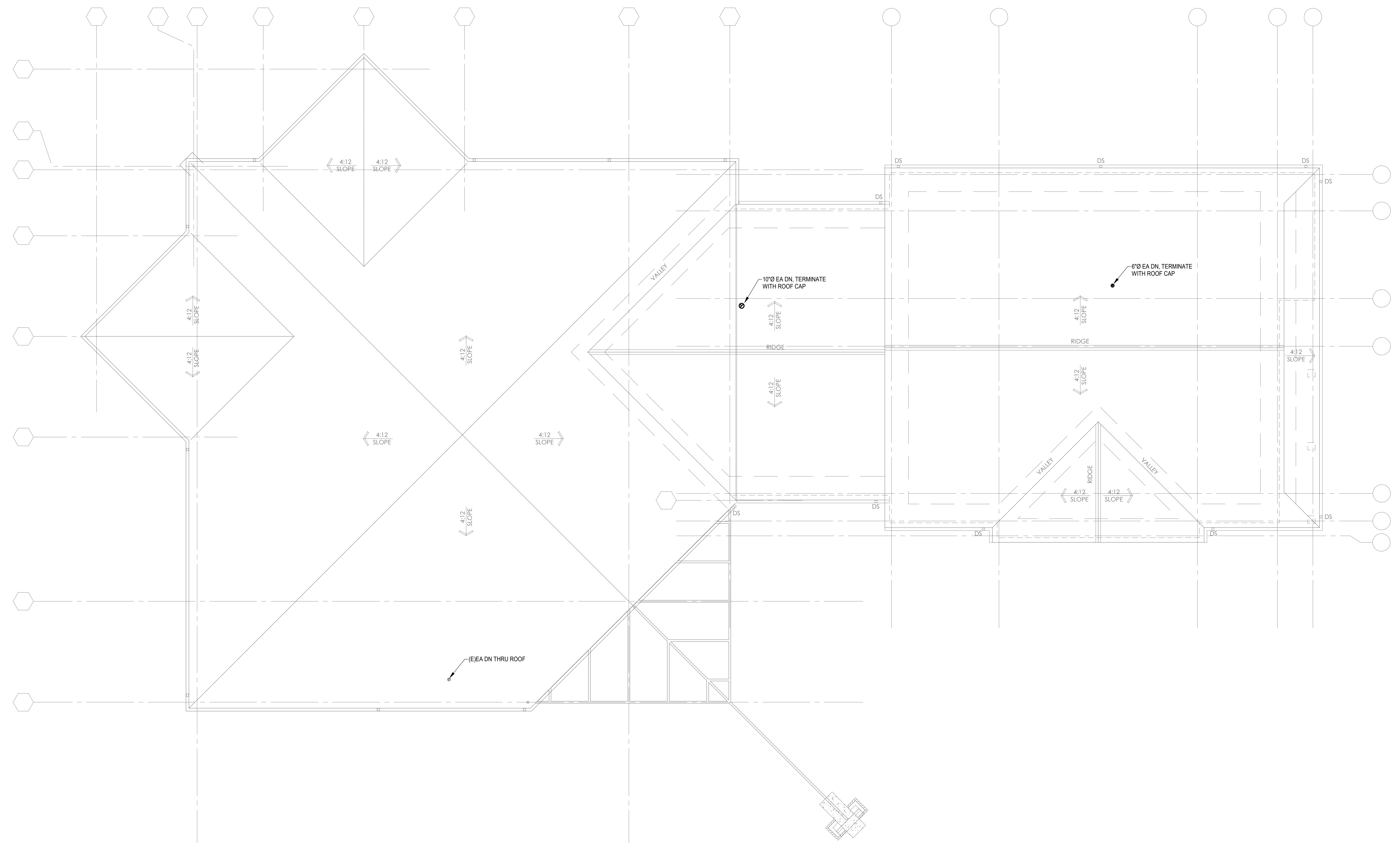
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date: 11-18-2024

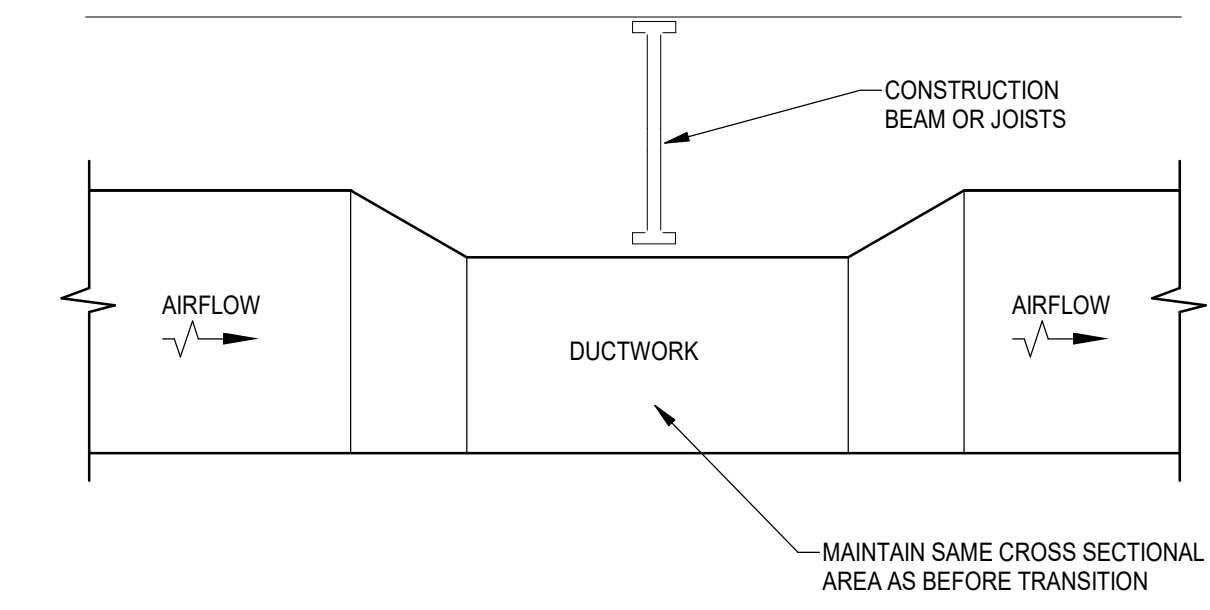
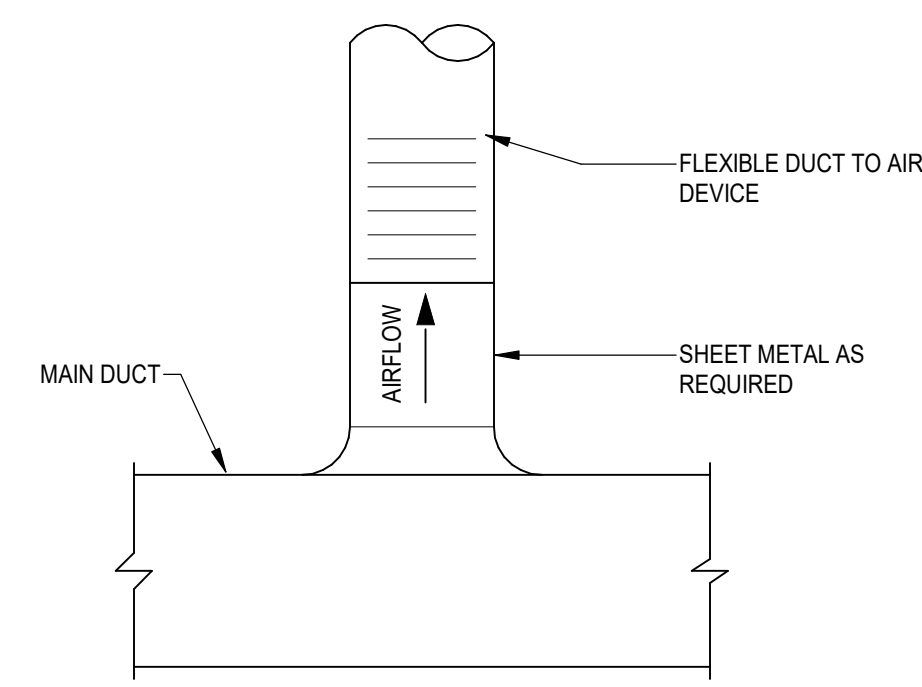
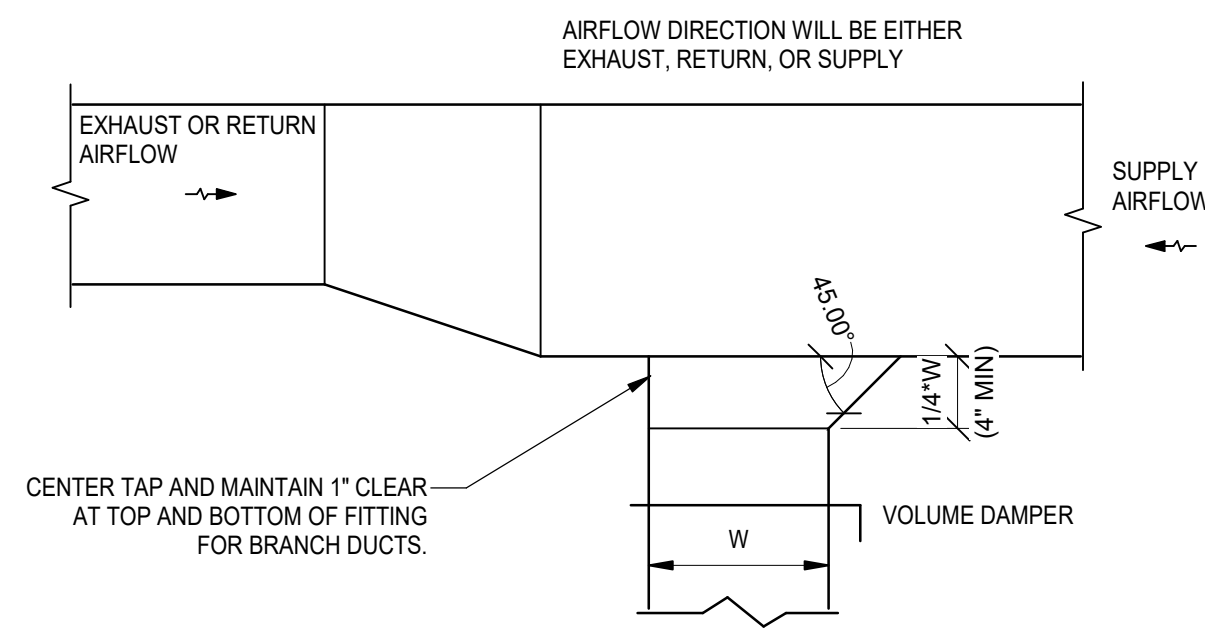
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Title:
 ROOF PLAN - MECHANICAL

M2.02



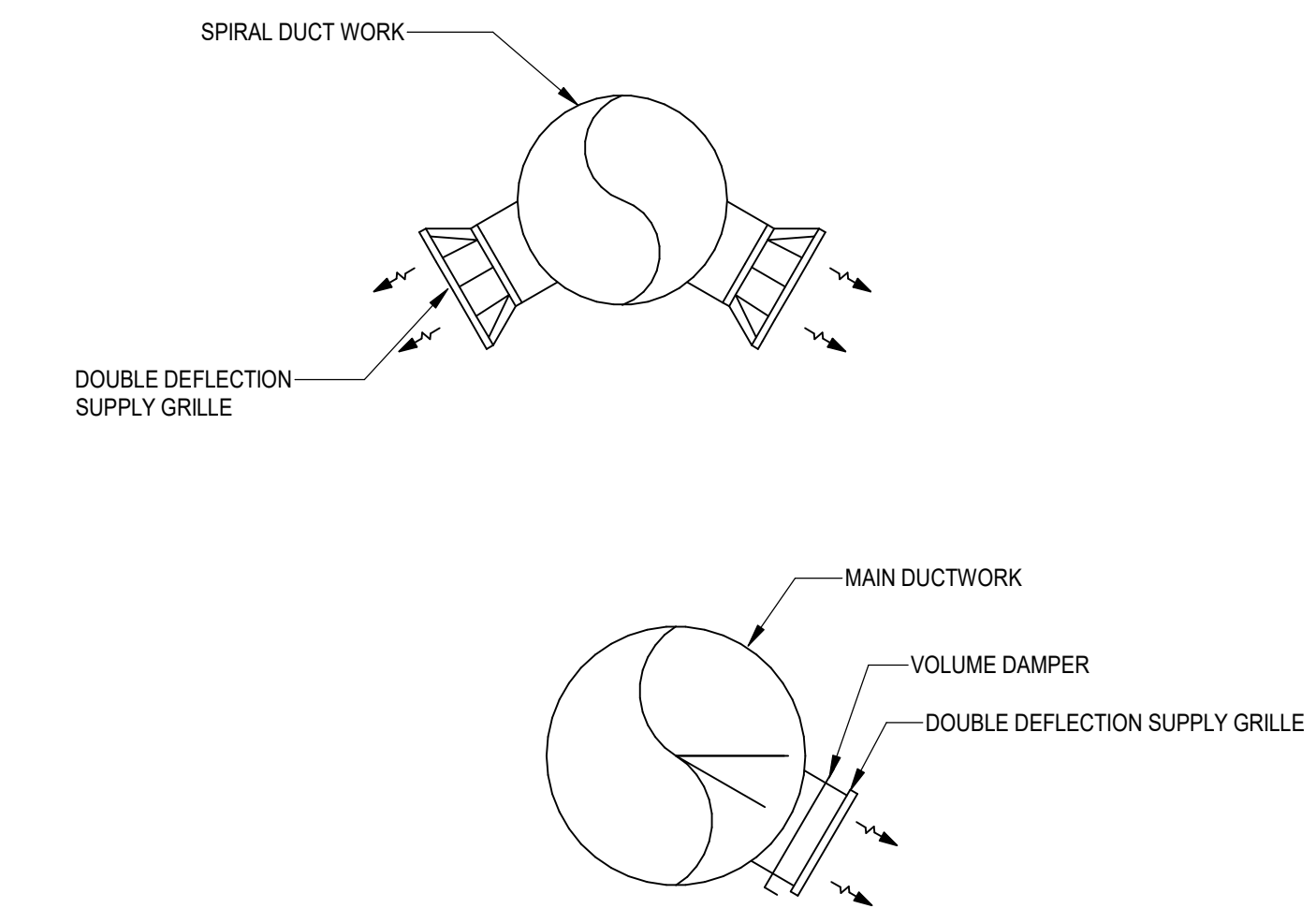
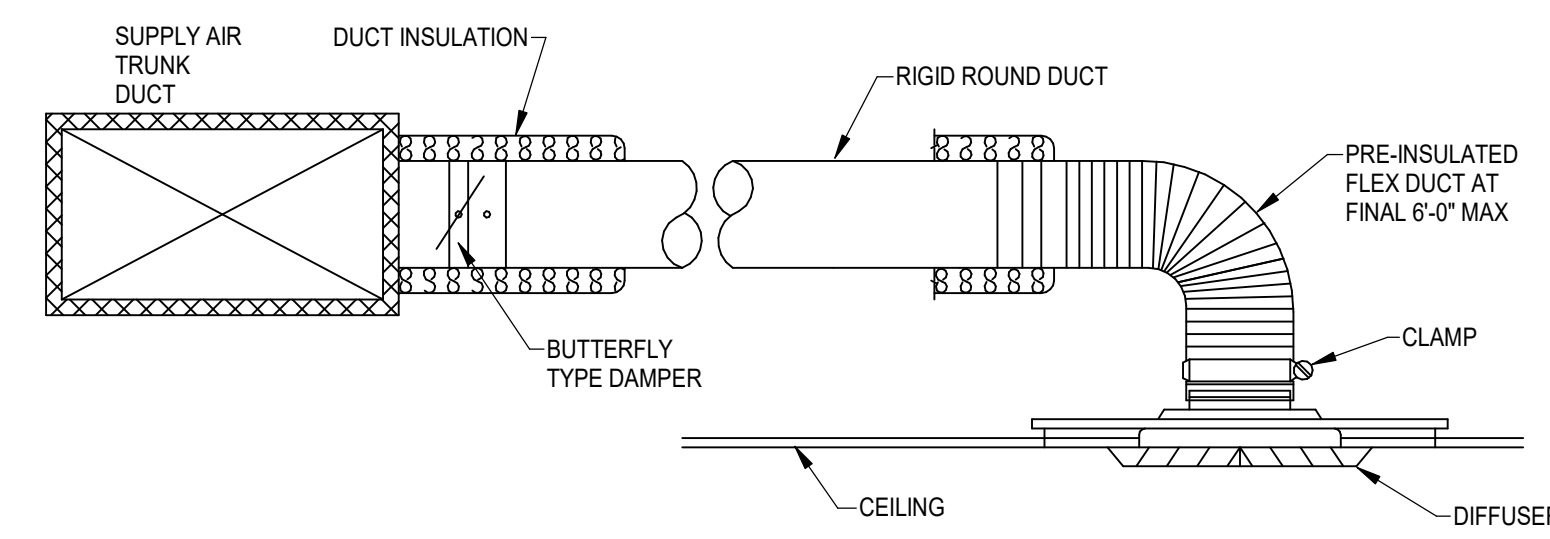
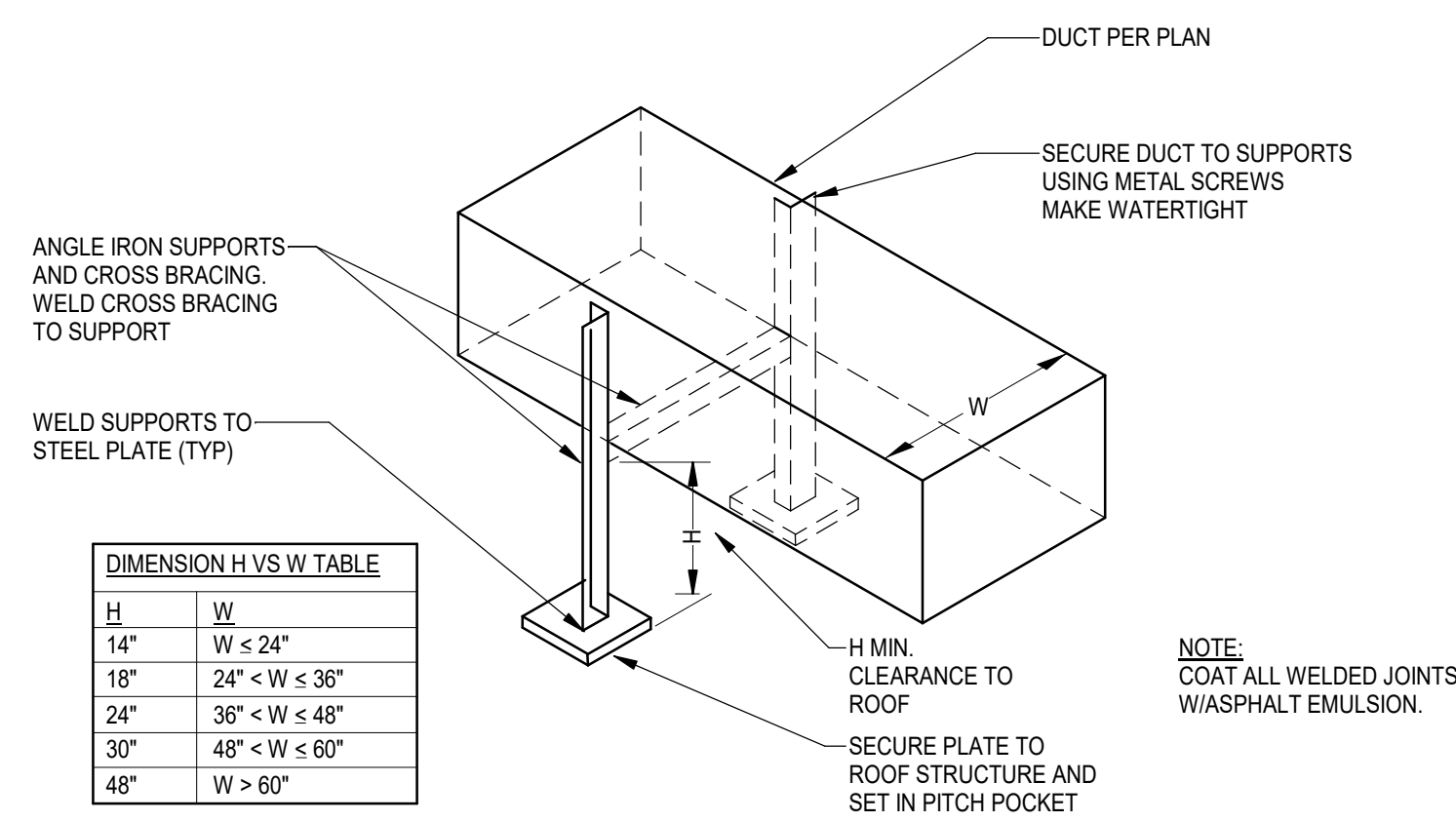
1 ROOF PLAN - MECHANICAL
 1/8" = 1'-0"



1 BRANCH DUCT DETAIL
N.T.S.

2 CIRCULAR BRANCH DUCT DETAIL
N.T.S.

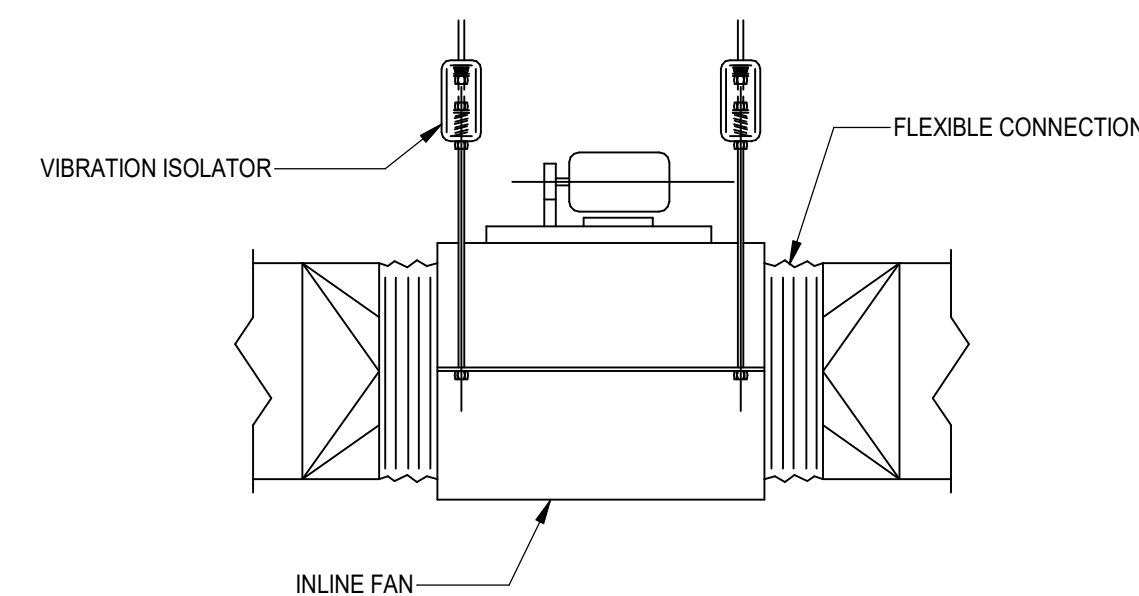
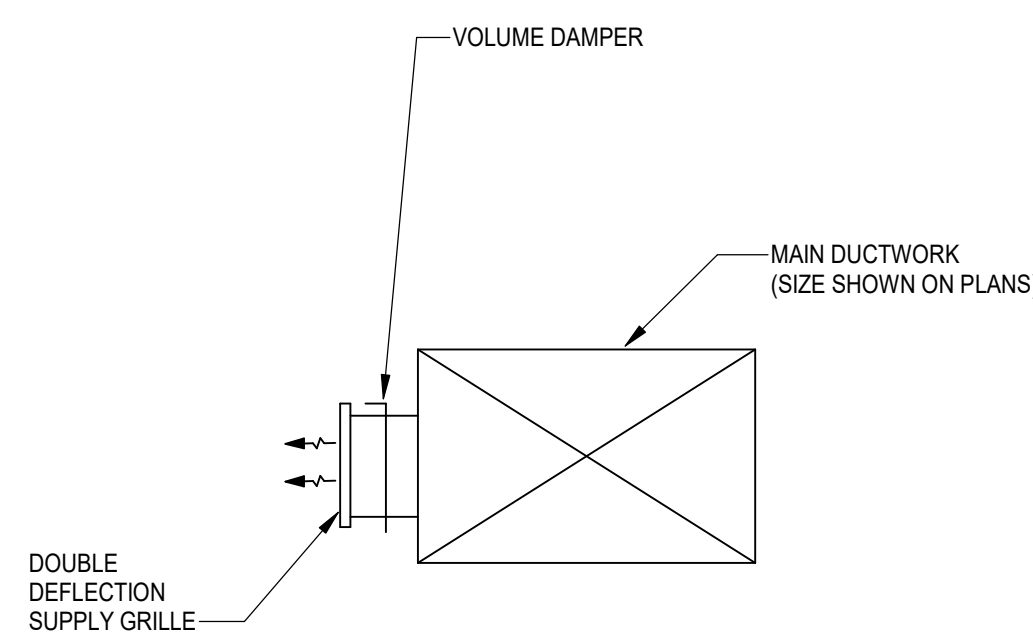
3 DUCT OFFSET DETAIL
N.T.S.



4 DUCT SUPPORT DETAIL
N.T.S.

5 DIFFUSER INSTALLATION DETAIL
N.T.S.

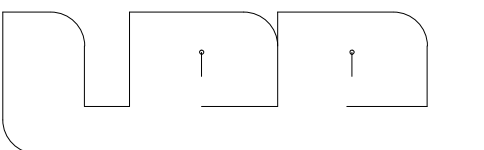
6 EXPOSED DUCT INSTALLTION DETAIL
N.T.S.



7 EXPOSED DUCT INSTALLTION DETAIL
N.T.S.

8 INLINE FAN SUPPORT DETAIL
N.T.S.

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Job No: 24010

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Drawn by: _____ Checked by: _____

Title: MECHANICAL DIAGRAMS

M5.01

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Creekside Bible Church Renovation and Addition
 Location: Castle Rock, Colorado
 Climate Zone: 5b
 Project Type: Addition

Construction Site: Castle Rock, Colorado 80104
 Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

- 1 RTU-1 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 65 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER
 Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
 Fan System: RTU-1 | Classroom/Hallway - Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 2300 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency
- 1 RTU-2 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 224 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER
 Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
 Fan System: RTU-2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 2 Supply, Constant Volume, 3000 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency
- 1 RTU-3 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 224 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 15.00 EER, Required Efficiency = 11.00 EER
 Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
 Fan System: RTU-3 | Classroom - Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 3 Supply, Constant Volume, 3000 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency
- 1 RTU-4 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 350 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
 Cooling: 1 each - Single Package DX Unit, Capacity = 163 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 14.50 EER, Required Efficiency = 10.80 EER
 Proposed Part Load Efficiency = 14.50 IEER, Required Part Load Efficiency = 12.20 IEER
 Fan System: RTU-4 - Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 4 Supply, Constant Volume, 6000 CFM, 3.5 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 75.0 design fan efficiency

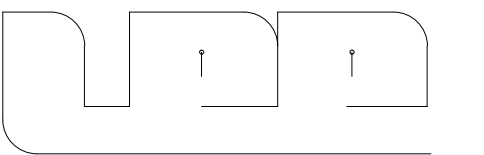
Project Title: Creekside Bible Church Renovation and Addition Report date: 11/18/24
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Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

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11/19/2024

CREEKSIDE BIBLE CHURCH
RENOVATION & ADDITION
 2180 I-25
 CASTLE ROCK, CO 80104



Job No: 24010

Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date 11-18-2024

Drawn by Checked by

Title
MECHANICAL ENERGY CALCULATIONS

M6.01

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BIDDING SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL.

01. BASIC REQUIREMENTS

- A. PLUMBING PLANS MAY INCLUDE SCOPE INFORMATION FOR OTHER TRADES. GENERAL CONTRACTOR TO FACILITATE COORDINATION OF PERTINENT INFO TO ALL REQUIRED CONTRACTORS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO BID TO CONFIRM A COMPLETE SYSTEM IS INCLUDED.
- B. PLUMBING DESIGN SHALL CONFORM TO ADOPTED CODES AND ALL LOCAL AMENDMENTS. PROJECT SHALL BE COORDINATED WITH ALL BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
- C. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL, STRUCTURAL OR CIVIL DRAWINGS BY OTHER DESIGN PROFESSIONALS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WHETHER OR NOT INDICATED ON THESE DRAWINGS.
- D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. DESIGN IS DIAGNOSTIC IN NATURE AND IS PROVIDED TO CONVEY DESIGN INTENT ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND TO EXTEND SYSTEMS INSTALLED BY OTHERS AND FURNISHED BY OTHERS SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ALL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE PRIOR TO BID FOR ALL ESTIMATING PURPOSES.
- E. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF WORK MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST. PROVIDE OFFSETS AT CHANGES OF DIRECTION AND TO AVOID OBSTRUCTIONS AT NO ADDITIONAL COST TO OWNER.
- F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED CONTRACTORS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL, ASTM, CISPR, ETC. AND SHALL BEAR THE LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
- G. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EQUIPMENT, FIXTURES AND APPARATUS FURNISHED BY CONTRACTOR, TENANT, OTHER TRADES, DIVISIONS AND/OR EXISTING. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.
- H. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ARCHITECT/ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.
- I. CONTRACTOR TO ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES ON ALL EQUIPMENT AND PROVIDE ALL NECESSARY ADJUSTMENTS FOR PROPER OPERATION.
- J. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR THEIR AGENCIES. ANY SUBSTITUTED EQUIPMENT FROM SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE SUBSTITUTED EQUIPMENT REALIZED BY OTHER CONTRACTORS OR THE DESIGN TEAM.
- K. AT TIME OF BID THE CONTRACTORS SHALL ENSURE THE SITE TO BUILDING UTILITY CONNECTIONS ARE INCLUDED. CONTRACTORS TO COORDINATE INVERT AND SIZE OF ALL PLUMBING LEAVING OR ENTERING THE BUILDING. CONTRACTORS SHALL CONTACT DESIGN TEAM DURING THE BID PROCESS IF THERE IS A DISCREPANCY BETWEEN THE CIVIL DOCUMENTS AND THE PLUMBING DOCUMENTS. COORDINATE WITH SITE CONTRACTOR TO BRING ALL UNDERGROUND PLUMBING TO A MINIMUM OF 5' OFF OF BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
- L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NEW EQUIPMENT, FIXTURES AND DEVICES IN A LIKE NEW STATE AT TIME OF PROJECT CLOSEOUT. PROTECT EQUIPMENT, FIXTURES AND DEVICES AS REQUIRED AGAINST PHYSICAL DAMAGE, DEBRIS, RAIN, SNOW, WIND, DIRT, SUN FADING, RUST, CORROSION OR ANY OTHER DEGRADATION. CONTRACTOR TO REPAIR OR REPLACE ANY EQUIPMENT OR DEVICES AS REQUIRED.

02. BASIC MATERIALS

- A. PROVIDE PLUMBING SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMER, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM. CONTRACTOR IS REQUIRED TO COORDINATE WITH OTHER TRADES OR RETAIN SUB-CONTRACTORS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PRIOR TO BID.
- B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING MATERIALS, EQUIPMENT, AND APPARATUS.
- C. PROVIDE VIBRATION ISOLATION AND FLEXIBLE CONNECTIONS ON ALL EQUIPMENT WITH ROTATING OR OSCILLATING COMPONENTS AND PUMPS OVER 1 HORSEPOWER.
- D. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THE CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION, ELEVATION, EXTENT, MATERIAL AND FINISH.
- E. UNLESS NOTED ELSEWHERE ON PLAN, PROVIDE ASSE 1003 PRESSURE REDUCING VALVE ASSEMBLY AT BUILDING WATER SERVICE ENTRY. OUTLET PRESSURE TO BE SET TO MAINTAIN A MAXIMUM STATIC PRESSURE OF 80 PSI AT ANY FIXTURE.
- F. PROVIDE DRAINAGE SYSTEM CLEANOUTS AS REQUIRED BY LOCAL CODES.
- G. PROVIDE QUARTER TURN BRANCH AND ZONE SHUT-OFF VALVES ON ALL WATER LINES EXTENDING FROM MANS.
- H. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, ACTUATORS, MOTORS, DEVICES, ETC AND THE PROPER SERVICING OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. AT TIME OF BID THE CONTRACTOR AND GC SHALL COORDINATE TO ENSURE THAT ALL ACCESS PANELS (INCLUDING FIRE AND/OR SMOKE RATED MODELS) ARE INCLUDED.
- I. PROVIDE SEISMIC AND/OR WIND LOADING SECUREMENT DETAILS AS REQUIRED BY THE LOCAL JURISDICTION. THE CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIER(S) TO OBTAIN THE DRAWINGS AND INSTALL THE SYSTEM AS REQUIRED BY THE MANUFACTURER. CONTRACTOR TO SELECT ATTACHMENT AND MOUNTING SYSTEMS BASED ON ATTACHING TO THE DESIGNED SUBSTRATE AND STRUCTURE WITHOUT REQUIRING ADDITIONAL REINFORCEMENT BY OTHERS. IF ANY SUBSTRATE AND/OR STRUCTURE IS REQUIRED FOR PROPER REINFORCEMENT, CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ALL POTENTIAL REQUIREMENTS PRIOR TO BID.
- J. FIRE STOP ALL PIPING AND WIRING MATERIALS PASSING THROUGH RATED STRUCTURES OR ASSEMBLIES USING U.L. LISTED PRODUCTS FOR ALL APPLICABLE PENETRATIONS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- K. FIELD LABEL ALL PLUMBING EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER PLUMBING AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.
- L. TAG ALL ZONE VALVES WITH CONSECUTIVE NUMBERING ON PERMANENT HARD PLASTIC OR METAL TAB AND PROVIDE SCHEDULE LISTING ITEMS, AREA SERVED, SIZE AND VALVE TYPE. SUBMIT FINAL VALVE SCHEDULE FOR REVIEW.
- M. ALL PROVIDED MATERIALS LOCATED IN A RETURN AIR PLENUM SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED BY AN INDEPENDENT TESTING LAB. CONTRACTOR SHALL COORDINATE AT TIME OF BID WITH OTHER TRADES.
- N. UTILIZE AN INDEPENDENT BALANCER WITH NEBB AND/OR AABC CERTIFICATION. RECIRCULATING PLUMBING SYSTEM SHALL BE BALANCED TO 10% DISCREPANCY OF THE GPM INDICATED ON THE PLANS. IF THERE IS A DISCREPANCY GREATER THAN 10%, BALANCE CONTRACTOR SHALL CONTACT ENGINEER. A BALANCING METHOD MUST BE PROVIDED FOR ALL CIRCULATING SYSTEMS. PROVIDE A FINAL COPY OF THE BALANCE REPORT TO THE ENGINEER OR RECORD UPON COMPLETION OF THE PLUMBING SYSTEMS. RESIDENTIAL UNITS SHALL BE PROVIDED WITH A PROJECT SPECIFIC BALANCING PLAN AS REQUIRED BY THE RESPECTIVE ENERGY PROGRAM AND AHJ.

03. PIPING

- A. SANITARY AND VENT PIPING ABOVE AND BELOW GRADE SOLID CORE (NO CELL CORE) PVC, SCHEDULE 40 PIPE (140F MAX) AND SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1784, ASTM D 1785 AND ASTM D 2685. INJECTION MOLDED PVC DWV FITTINGS SHALL CONFORM TO ASTM D 2685. FABRICATED PVC DWV FITTINGS SHALL CONFORM TO ASTM F 1886. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14. INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY MANUFACTURER AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. BURED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1688. SOLVENT CEMENT JOINTS SHALL BE MADE IN A TWO STEP PROCESS WITH COLORED PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH PVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION.
- B. DOMESTIC WATER PIPING (WATER ENTRY, MECH ROOMS) ABOVE GRADE SHALL BE ASTM B 88, TYPE L COPPER WITH WROUGHT OR FORGED FITTINGS AND LEAD FREE SOLDERED OR MECHANICALLY PRESSED CONNECTED JOINT PRESS OR EQUAL.
- C. DOMESTIC WATER PIPING (MANS, DISTRIBUTION) ABOVE/BELOW GRADE, SOLVENT SOCKET WELDED CPVC PIPE MEETING ASTM D2846 W/ CELL CLASS 24446 PER ASTM D1784 FOR FLOOR/WARD GOLD CTS 1/2" THRU 2" PIPE UTILIZING A 3-STEP SOLVENT CEMENT CONFORMING TO ASTM F493. IF THE AHJ REQUIRES PRIMER, THEN A PRIMER CONFORMING TO ASTM F656 SHOULD BE USED. CONTRACTOR SHALL HAVE ALL INSTALLERS BE BONDED QUALIFIED TO ASME B 31.3. COR3AN CPVC SCHEDULE 80 PIPE W/ CELL CLASS 24448 UP TO 6" AND 23447 8" AND 6. ALL PRIMERS AND CEMENTS SHALL BE LISTED WITH NSF FOR POTABLE WATER.
 - a. REVIEW ALL ANCLLARY PRODUCT (CAULK, FIRE SEALANT, COATED HANGERS, ETC...) WITH THE LUBRIZOL SYSTEM COMPATIBLE PROGRAM AND/OR RECEIVE WRITTEN DOCUMENTATION FROM ANCLLARY PRODUCT MANUFACTURER SHOWING "COMPATIBILITY" WITH CPVC.
 - b. CONTRACTOR SHALL SUBMIT PROOF OF TRAINING BY CPVC MANUFACTURER WITHIN LAST 2-YEARS OF START OF THIS PROJECT FOR "RECOMMENDED INSTALLATION PRACTICES".
- A. CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED JOINTS, OR CPVC IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- B. GAS PIPING USED FOR THE INSTALLATION, EXTENSION, ALTERATION, AND/OR REPAIR OF ANY GAS PIPING SYSTEM SHALL BE BLACK STEEL PIPE ASTM A53 ERW (TYPE E) GRADE B, OR FURNACE-WELDED (TYPE F) GRADE A, STANDARD WALL, SCHEDULE 40. ALL A53 PIPING SHALL BE THIRD PARTY TESTED TO MEET THE CODE AND EACH LENGTH SHALL BE STENCILED WITH MFG. LENGTH, ASTM S&B PIPE TYPE.
- C. GAS PIPING 3/4 INCHES AND LARGER SHALL BE SCHEDULE 40 STEEL, WITH WELDED JOINTS. GAS PIPING 2-1/2 INCHES AND SMALLER SHALL BE SCHEDULE 40 STEEL, MALLEABLE THREADED FITTINGS OR MECHANICALLY PRESS-CONNECTED (MEGA PRESS) MEETING ASTM A53.
- D. GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 STEEL, AND WRAPPED WITH PROTECTIVE PIPE COVERING AND VENTED IN ACCORDANCE WITH LOCAL JURISDICTIONS HAVING AUTHORITY.
- E. SEMI RIGID FLEXIBLE GAS PIPING BY TRACPIPE MAY BE USED IF APPROVED BY LOCAL JURISDICTIONS. SYSTEM RESIZING FOR CSST SUBSTITUTIONS IS THE PC'S RESPONSIBILITY.
- F. PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
- G. ANY PIPING SYSTEM LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- H. FIRE STOP ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

04. INSULATION

- A. PIPING INSULATION TO BE INSTALLED AS PER BELOW. WHEN CONFLICTING INSULATION REQUIREMENTS ARE LISTED, THE MORE STRINGENT SHALL BE USED.
- B. INSULATION SHALL BE INSTALLED PER ECC SECTION & TABLE C403 MINIMUM PIPE INSULATION THICKNESS AND TABLE C404 PIPING VOLUME AND MAXIMUM PIPING LENGTHS. HOT & RETURN WATER PIPING (105'-140') 1-1/4" AND SMALLER SHALL HAVE 1" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET. 1-1/2" AND LARGER SHALL HAVE 1-1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUE OF 0.21-0.28). 141'-200' 1-1/4" AND SMALLER SHALL HAVE 1-1/2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET. 1-1/2" AND LARGER SHALL HAVE 2" FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET (K-VALUES OF 0.25-0.29). EXCEPTION: PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE OF NOT LESS THAN R-3.
- C. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
- D. SANITARY, DOMESTIC COLD, AND HOT WATER PIPING IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE SHALL BE INSTALLED TO THE WARM SIDE OF THE BUILDING INSULATION.
- E. IN COLD ENVIRONMENTS (95% WINTER DESIGN DB <34F):
 - 1. HORIZONTAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH 1-INCH FIBERGLASS INSULATION.
 - 2. VERTICAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING EXTERIOR WALLS, COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH 1-INCH FIBERGLASS INSULATION.
 - 3. DOMESTIC COLD & HOT WATER PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING ATTICS, COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH MINIMUM 2-INCH FIBERGLASS INSULATION.
 - 4. PROVIDE MINIMUM 1-INCH THICK INSULATION ON DOMESTIC WATER LINES IN AN EXTERIOR WALL, CEILING, OR FLOOR THAT IS ADJACENT TO AN UNCONDITIONED SPACE.

05. PLUMBING FIXTURE

- A. FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE PLANS.
- B. PROVIDE CHROME PLATED ANGLE STOPS AND ESCUTCHEON PLATES ON ALL EXPOSED FIXTURE RUNOUTS
- C. PROVIDE INSULATION AND ROUGH IN AS REQUIRED FOR COMPLIANCE WITH ADA REQUIREMENTS.
- D. PROVIDE ALL ACCESSORIES AND SPECIALTY ITEMS AS REQUIRED FOR A COMPLETE FIXTURE INSTALLATION.

06. REDUCED PRESSURE BACKFLOW PREVENTER

- A. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR THE PRIMARY DOMESTIC COLD WATER SERVICE IN ACCORDANCE WITH STATE, LOCAL, AND JURISDICTIONAL WATER DISTRICT REQUIREMENTS.
- B. FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTER FOR MECHANICAL EQUIPMENT REQUIRED OF THIS OR OTHER SECTIONS OF THESE SPECIFICATIONS.

07. ELECTRIC WATER HEATERS

- A. FURNISH AND INSTALL A GLASS LINED ELECTRIC WATER HEATER AS SCHEDULED ON THE PLANS.
 - a. FURNISH HEATER WHICH ARE UL LABELED AND MEET THE REQUIREMENTS OF LOCAL MUNICIPALITIES.
 - b. WATER HEATER LOCATED IN CEILING SHALL BE PROVIDED WITH 2 1/2" DRAIN PAN. TERMINATE DRAIN TO NEAREST FLOOR DRAIN, FLOOR SINK OR LAV TRAP.
- B. MINIMUM 2FT OF DOMESTIC WATER PIPE SHALL BE COPPER OFF ALL WATER CONNECTIONS TO WATER HEATER. REFER TO SHEET SPEC SECTION 3 PIPING TO VERIFY MATERIALS ACCEPTABLE IN MECHANICAL/WATER ENTRY ROOM.

08. CIRCULATING PUMP

- A. FURNISH AND INSTALL A NSF RATED DOMESTIC HOT WATER RETURN CIRCULATOR AS SCHEDULED ON THE PLANS. PROVIDE RETURN LINE AQUASTAT AND WIRE COMPLETE TO CYCLE CIRCULATOR TO PROVIDE 120 OR 140 DEGREES RETURN WATER TEMPERATURE (ADJUSTABLE).

09. CONDENSATE PUMP

- A. FURNISH AND INSTALL A SELF CONTAINED CONDENSATE PUMP WHERE INDICATED ON THE PLANS
- B. PUMP SHALL BE CAPABLE OF LIFTING CONDENSATE FROM EQUIPMENT INDICATED ON PLANS FOR PIPED DISPOSAL TO AVAILABLE DRAIN LOCATION.
- C. PROVIDE HIGH WATER ALARM.

PLUMBING LEGEND	
BC	BICARB
CT	CONDENSATE
CT	CONCENTRATE
CT	FUTURE
DCW	DOMESTIC COLD WATER
120"	DOMESTIC HOT WATER
120"	DOMESTIC HOT WATER RECR
GW	GREASE WASTE
MCA	MEDICAL COMPRESSED AIR
O	OXYGEN
RO	REVERSE OSMOSIS
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
SOI	SAND OIL
SS	SANITARY SEWER
V	VENT
SCA	SCAVENGER AIR
VAC	VACUUM SUCTION
AJXX	TYPICAL PIPE ABOVE/ON ROOF
BJXX	TYPICAL PIPE BELOW/UNDERGROUND
EJXX	TYPICAL PIPE EXISTING

VALVES	FIXTURES
BALL VALVE	WALL CLEAN OUT
GATE VALVE	⊙ FLOOR CLEANOUT
GLOBE VALVE	⊙ AREA DRAIN
CHECK VALVE	⊙ FLOOR DRAIN
PRESSURE REDUCING VALVE (PRV)	⊙ FLOOR SINK FULL COVER
MEASURE FLOW	⊙ FLOOR SINK 3/4 COVER
TEE UP	⊙ FLOOR SINK 1/2 COVER
TEE DOWN	⊙ GAS METER
ELBOW UP	⊙ HOSE BIB
ELBOW DOWN	⊙ BATH TUB/SHOWERMOP SINK
MISC.	⊙ SINK/LAV
POINT OF CONNECTION (POC)	⊙ 2-COMPARTMENT SINK
	⊙ DRINKING FOUNTAIN/URNAL
	⊙ WASHER BOX
	⊙ ICE BOX
	⊙ WATER CLOSET STACK
	⊙ WATER CLOSET

- GENERAL NOTES:**
- ALL ITEMS CONNECTING TO POTABLE WATER SHALL MEET THE LEAD FREE STANDARD OF .25% OR LESS LEAD.
 - PLUMBING PLANS REFERENCE FINISHED FLOOR TO FINISHED FLOOR ABOVE. SANITARY SHOWN IS FOR FIXTURES ABOVE UNLESS NOTED OTHERWISE.
 - FIELD VERIFY ALL ROUTING OF PLUMBING LINES WITH OTHER TRADES. FIELD ADJUST ROUTING ACCORDINGLY TO MAKE SYSTEM WORK WITH OTHER TRADES.
 - PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC FIXTURES AS REQUIRED PER LOCAL CODE.
 - PC TO PROVIDE VACUUM BREAKERS AT LOCATIONS WHERE HOSES AND NOZZLES ARE USED. I.E. JANITOR SINKS, BEAUTY SINKS, KITCHEN SPRAYERS, DISHWASHERS, AND BATHS. INSTALL CHECK VALVES ON BOTH COLD AND HOT WATER LINES TO FIXTURE.
 - ALL DRAINAGE LINES 2-1/2" AND UNDER TO BE SLOPED AT 1/4" PER FOOT. 3-4" TO BE SLOPED AT 1/8" PER FOOT, AND 6" AND OVER TO BE SLOPED AT 1/16" PER FOOT UNLESS NOTED OTHERWISE. GREASE WASTE SHALL BE SLOPED AT 1/4" ONLY PER CODE.
 - START TRENCHING FOR NEW SANITARY LINE AT FURTHEST FIXTURE (HIGHEST POINT IN SYSTEM) FROM CIVIL CONNECTION POINT TO BUILDING.
 - FIELD ROUTE ALL CONDENSATE LINES, T&P VALVES, AND DRAIN VALVES FROM MECHANICAL AND PLUMBING EQUIPMENT TO SANITARY SEWER RECEPTOR OR STORMGRADE PER LOCAL CODE AND JURISDICTION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR FINAL HEIGHTS AND/OR LOCATIONS OF SHOWER FIXTURES.
 - WATER CLOSETS ON BEAMS OR COLUMNS TO BE OFFSET 18" OFF FINISHED WALL.
 - PEX PIPING IS AN APPROVED PIPING MATERIAL FOR DISTRIBUTION TO ALL FIXTURES OFF WATER MAINS.
 - DO NOT SECURE ANY PIPING TO EXPANSION JOINT WALLS.
 - ENSURE THAT THE DOMESTIC HOT WATER PIPING AND COIL SERVING THE POOL AIR HANDLER REMAIN ARE OPEN DURING PIPING SYSTEM CIRCULATION BY KILLING THE POWER TO THE VALVE DURING THE FLUSHING (IT WILL SPRING OPEN).
 - MC TO FURNISH AND INSTALL REFRIGERANT LINES BETWEEN ICE MACHINES AND THEIR RESPECTIVE REMOTE CONDENSING UNITS.

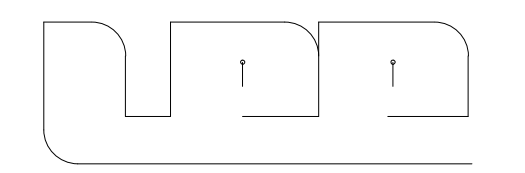
ABBREVIATIONS	
(D)	DEMO
(E)	EXISTING
(F)	FUTURE
(N)	NEW
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
B	BOLTER
BB	BASEBOARD
BF	BOOSTER FAN
BFP	BACKFLOW PREVENTER
BT	BATH TUB
BV	BALL VALVE
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CS	CULICAL SINK
CU	CONDENSING UNIT
CV	CHECK VALVE
CUH	CABINET UNIT HEATER
DOW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DSN	DOWN SPOUT NOZZLE
EVC	EVAPORATIVE COOLER
ECC	ELECTRICAL CONTRACTOR
EDM	END OF LINE CLEANOUT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ER	EXISTING REMOVED
ERR	EXISTING REMOVED & RELOCATED
EW	EMERGENCY EYEWASH
EW	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FURNACE
FCO	FLOORGRADE CLEANOUT
FDU	FAN COIL UNIT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GC	GENERAL CONTRACTOR
GM	GAS METER
GPM	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GAS REGULATOR
GH	GAS UNIT HEATER
GW	GREASE WASTE
GWH	GAS WATER HEATER
HB	HOSE BIB
H	HEAT PUMP
HV	HEAT EXCHANGER
IB	ICE MAKER BOX
LAV	LAVATORY
LS	LAUNDRY SINK
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MF	MEASURE FLOW
NC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
ORD	OVER FLOW ROOF DRAIN
P	PUMP
PC	PLUMBING CONTRACTOR
PFT	PARALLEL FAN TERMINAL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSG	PRESSURE GAUGE
PV	PLUG VALVE
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RE	RELOCATE EXISTING
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
RAM	RAODN VAPOR MITIGATION
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SF	SUPPLY FAN
SFT	SERIES FAN TERMINAL
SH	SHOWER
SK	SINK
SOI	SAND/OIL INTERCEPTOR
SS	SERVICE SINK
T&P	TEMPERATURE & PRESSURE
T	TRENCH
TP	TYPICAL
UR	URNAL
UV	VARIABLE AIR VOLUME
VIT	VARI TRAC
WB	WASHER BOX
WC	WATER CLOSET/WATER COLUMN
WCO	WALL CLEANOUT COLUMN
WH	WALL HYDRANT

CODE & DESIGN CRITERIA	
JURISDICTION: CASTLE ROCK, COLORADO	
PLUMBING CODE(S): 2018 IPC, IFGC, IECC	
LOCAL ADDENDUMS: NO	
WATER PRESSURE: 80 PSI STATIC - WELL PUMP	
GAS PRESSURE: LESS THAN 2 PSI	
PEAK RAINFALL RATE: 7" PER HOUR	
S-O1 DISCHARGE TO: N/A	
ELEVATOR PUMP REQUIRED: N/A	
CONDENSATE DISCHARGE: SANITARY	
FULLY SPRINKLERED: YES	
NUMBER OF FLOORS: 1	

PLUMBING SHEET LIST	
NUMBER	TITLE
P0.01	PLUMBING SPECS & LEGENDS
P0.02	PLUMBING SCHEDULES
P1.01	FLOOR PLAN - PLUMBING DEMO
P2.00	UNDERGROUND PLAN - PLUMBING
P2.01	FLOOR PLAN - PLUMBING
P2.02	ROOF PLAN - PLUMBING
P5.01	WASTE & VENT - ISOMETRIC
P5.05	PLUMBING DIAGRAMS
SHEET TOTAL: 8	

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11/19/2024

CREEKSIDE BIBLE CHURCH
RENOVATION & ADDITION
 2180 +25
 CASTLE ROCK, CO 80104



Job No: **24010**

Revisions / Submittals:	
No.	Date Description
	11/18/2024 Permit Issue Set

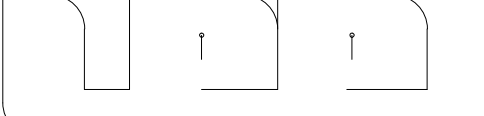
Date: 11-18-2024

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Title: **PLUMBING SPECS & LEGENDS**

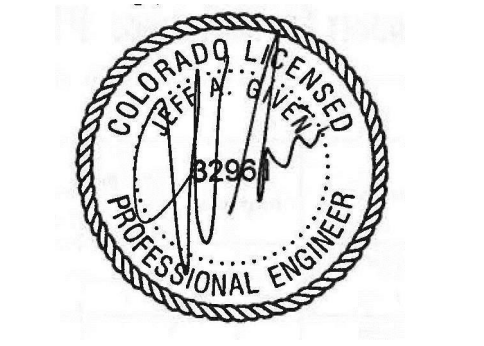
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2180 I-25
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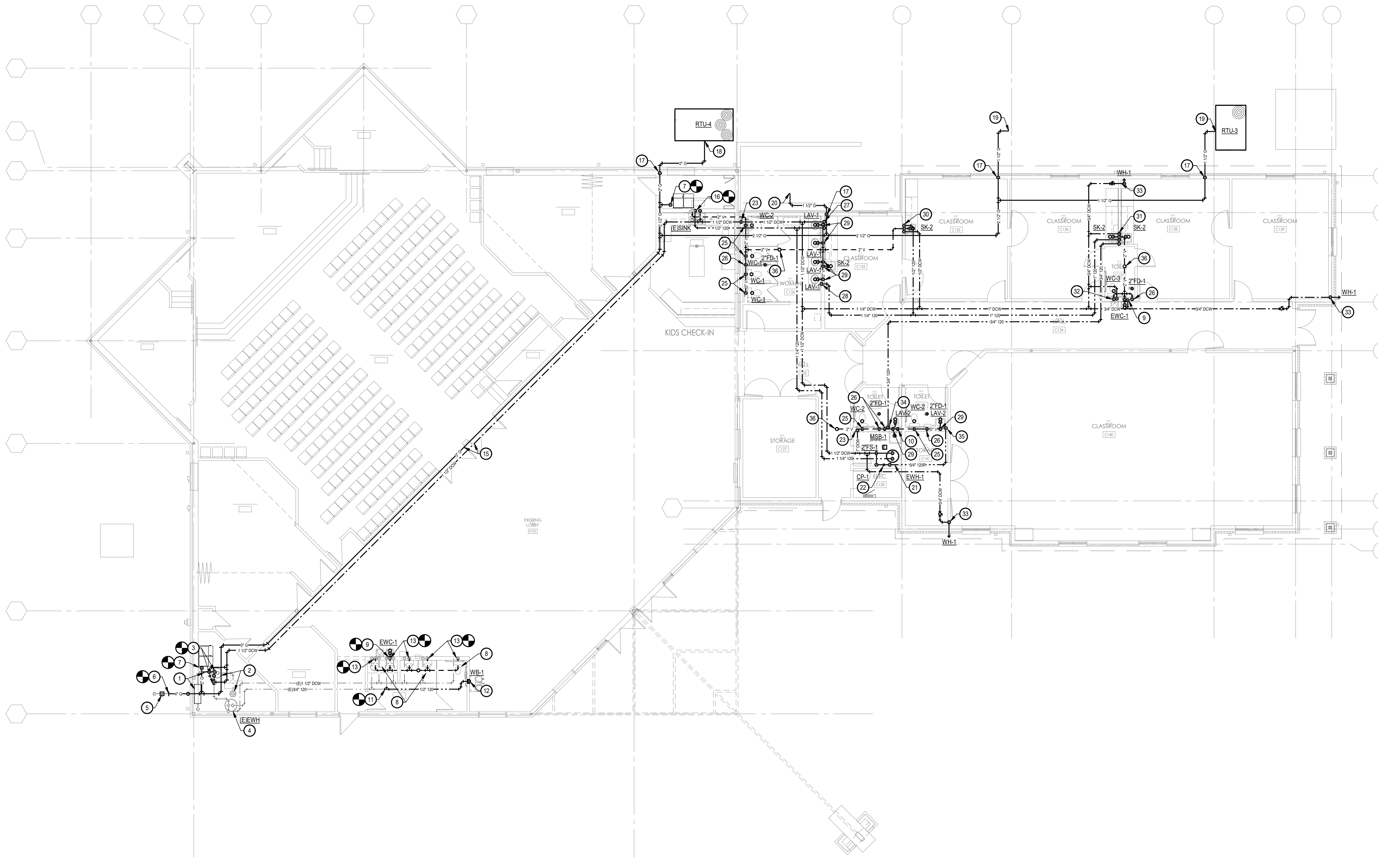
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Title: **FLOOR PLAN - PLUMBING**

P2.01

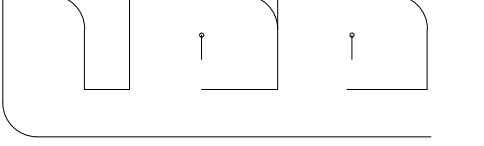
- DRAWING NOTES:**
- PLUMBING PLANS ARE BASED ON ORIGINAL BUILDING PLANS DATED 05/31/2022 & LIMITED SITE SURVEY CONDUCTED ON 11/20/2023. PC SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON WHICH NEW WORK IS DEPENDENT INCLUDING PIPE SIZE, MATERIAL, LOCATION & ELEVATION/INVERT PRIOR TO STARTING WORK.
 - ALL EXISTING ROOF DRAINAGE PIPING SHALL REMAIN IN PLACE AND IN SERVICE FOR EXISTING BUILDING UNLESS OTHERWISE NOTED. ALL ROOF DRAINAGE FOR ADDITION TO BE HANDLED BY ARCHITECTURAL SLUTTERS & DOWNSPOUTS. COORDINATE DOWNSPOUT CONNECTIONS WITH BELOW GRADE STORM PIPING. SEE CIVIL SHEET C6.0 FOR DOWNSPOUT CONNECTION LOCATIONS.
 - ALL SANITARY SEWER PIPING TO BE SLOPED TO COMPLY WITH IPC TABLE 704.1.
 - NATURAL GAS PIPING IS BASED ON 2018 IFGC TABLE 402.4(2). 6" W.C. OUTLET PRESSURE, 0.5" W.C. PRESSURE DROP, 400' TOTAL EQUIVALENT LENGTH OF PIPING.

- KEY NOTES:**
- (E)2" DOMESTIC WATER ENTRY W/ (E)WELL PUMP ASSEMBLY & (E)2" REDUCED PRESSURE BACKFLOW PREVENTER SHALL REMAIN IN SERVICE.
 - (E)WATER SOFTENER TANKS & CONTROLS SHALL REMAIN.
 - EXTEND & CONNECT 2" DCW W/BYPASS FULL SIZE TO (E)FILTER & (E)WATER SOFTENER CONNECTIONS. RECONFIGURE BRANCH PIPING DOWNSTREAM OF SOFTENER TO CONNECT TO (E)ELECTRIC WATER HEATER SERVING MEN'S BATHROOM & BAPTISTRY BACKFLOW PREVENTER & SERVICE LINE.
 - (E)ELECTRIC WATER HEATER & ALL ASSOCIATED PIPING, VALVES & FITTINGS SHALL REMAIN, NO WORK.
 - (E)GAS METER, SERVICE REGULATOR, VALVES, ETC. SHALL REMAIN. (N)TOTAL CONNECTED GAS LOAD = 1476.0 MBH/ 1776 CFH P.C. SHALL COORDINATE WITH BLACK HILLS ENERGY ANY REQUIRED ADJUSTMENT/REPLACEMENT OF GAS METER TO ACCOMMODATE (N)GAS LOAD.
 - CONNECT 4" G (1476.0 MBH/ 1776 CFH) TO (E)GAS LINE AT POINT SHOWN.
 - 2" G (264.0 MBH/ 318 CFH) DN TO (E)FURNACES. CONNECT TO EACH FURNACE INLET UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
 - (E)PLUMBING FIXTURES & ASSOCIATED DOMESTIC WATER, WASTE & FURN PIPING IN THIS AREA SHALL REMAIN.
 - INSTALL EW-1 AT LOCATION SHOWN. CONNECT 1/2" DCW FROM (E)DCW IN WALL TO WATER COOLER SUPPLY CONNECTION. CONNECT 2" WATER COOLER DRAIN TO (E)2" SS SERVING LAVATORY IN WALL.
 - 2" V UP IN WALL & DN THRU FLOOR TO 2" MOP SINK WASTE CONNECTION.
 - CONNECT 1/2" DHW TO (E)3/4" DHW ABOVE CEILING.
 - 1/2" DHW DN IN WALL TO WB-1 SUPPLY CONNECTION.
 - CONNECT 2" V TO (E)VENT RISERS FROM EXISTING FIXTURES ABOVE CEILING.
 - 3" V UP THRU ROOF TO 3" VTR.
 - ROUTE 2" DCW & 3" G (1212.0 MBH/ 1458 CFH) AS HIGH AS POSSIBLE IN ARCHITECTURAL SOFFIT ACROSS (E)LOBBY.
 - (E)SINK & ASSOCIATED WASTE & VENT PIPING SHALL REMAIN UP IN WALL DN THRU SLAB. 1/2" DCW & 1/2" DHW DN IN WALL TO (E)SINK FAUCET CONNECTIONS. CONNECT (E)2" V RISE TO 2" V ABOVE CEILING.
 - ROUTE GAS PIPING DN IN EXTERIOR WALL & OFFSET OUT THRU WALL AT MINIMUM 18" A.F.G. SUPPORT GAS PIPING EVERY 10'-0" O.C. MAXIMUM. SEE DIAGRAM.
 - CONNECT 2" G (350.0 MBH/ 421 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
 - CONNECT 1-1/2" G (224.0 MBH/ 270 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
 - CONNECT 1-1/2" G (150.0 MBH/ 181 CFH) TO MECHANICAL UNIT WITH UNION, GAS VALVE & 6" DIRT LEG. SEE DIAGRAM.
 - INSTALL EW-1 AT LOCATION SHOWN. 1-1/4" DCW & 1-1/4" DHW TO WATER HEATER CONNECTIONS. SEE DIAGRAM.
 - RECIRCULATION PUMP MOUNTED ON WALL.
 - 1" DCW DN IN WALL TO FULL SIZE HEADER. OFFSET HEADER IN WALL & CONNECT TO FIXTURES AS REQUIRED.
 - 2" V UP IN WALL & DN THRU FLOOR TO 4" FLOOR DRAIN WASTE CONNECTION.
 - 2" V UP IN WALL & DN THRU FLOOR TO 3" WATER CLOSET WASTE CONNECTION.
 - 2" V UP IN WALL & DN THRU FLOOR TO 2" FLOOR SINK/DRAIN WASTE CONNECTION.
 - 1" DCW & 1-1/4" DHW DN IN WALL TO FULL-SIZE HEADERS. EXTEND HEADERS IN WALL & CONNECT TO LAVATORY MIXING VALVES/SINK FAUCET CONNECTIONS AS REQUIRED.
 - CONNECT 1-1/4" DHW TO HEADER DOWNSTREAM OF LAST FIXTURE CONNECTION & RISE UP IN WALL. OFFSET ABOVE CEILING.
 - 2" V UP IN WALL. 2" SS DN THRU FLOOR.
 - 1/2" DCW & 1/2" DHW DN IN WALL TO SINK FAUCET CONNECTIONS. 2" V UP IN WALL. 2" SS DN THRU FLOOR.
 - 3/4" DCW, 1" DHW & 3/4" DHW DN IN WALL. ROUTE 1/2" DCW & 1/2" DHW BRANCHES TO SINK FAUCET CONNECTIONS. CONNECT 3/4" DHW TO 1" DHW DOWNSTREAM OF BRANCH CONNECTIONS TO FORM CIRCULATED LOOP. 2" V UP IN WALL. 2" SS DN THRU FLOOR.
 - 1/2" DCW DN IN WALL TO WATER CLOSET SUPPLY CONNECTION. 2" V UP IN WALL & DN THRU FLOOR TO 3" WATER CLOSET WASTE CONNECTION.
 - 3/4" DCW DN IN WALL TO WB-1 SUPPLY CONNECTION AT MINIMUM 18" A.F.G.
 - 3/4" DHW DN IN WALL TO FULL-SIZE HEADER. OFFSET HEADER IN WALL & CONNECT TO LAVATORY MIXING VALVES AS REQUIRED.
 - CONNECT 3/4" DHW TO DHW HEADER DOWNSTREAM OF LAST FIXTURE CONNECTION & RISE UP IN WALL. OFFSET ABOVE CEILING.
 - 3" V UP THRU ROOF TO 3" VTR. SEE DIAGRAM.



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

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11/19/2024

**CREEKSIDE BIBLE CHURCH
RENOVATION & ADDITION**
2180 I-25
CASTLE ROCK, CO 80104



Job No: 24010

Revisions / Submittals:		
No.	Date	Description
1	11/18/2024	Permit Issue Set

Date: 11-18-2024

Drawn by: _____ Checked by: _____

Title:
ELECTRICAL SPECS & LEGENDS

E0.01

ELECTRICAL SYMBOL LEGEND

<p>⊕ SIMPLEX RECEPTACLE ⊕ DUPLEX RECEPTACLE (WALL MTD) ⊕ DUPLEX RECEPTACLE (FLOOR MTD) ⊕ DUPLEX RECEPTACLE (CEILING MTD) ⊕ DUPLEX (SWITCHED) ⊕ 4-PLEX RECEPTACLE (WALL MTD) ⊕ 4-PLEX RECEPTACLE (FLOOR MTD) ⊕ 4-PLEX RECEPTACLE (CEILING MTD) ⊕ SPECIAL PURPOSE RECEPTACLE ⊕ SPECIAL PURPOSE RECEPTACLE (FLOOR MTD) ⊕ JUNCTION BOX (WALL MTD) ⊕ JUNCTION BOX (FLOOR MTD) ⊕ JUNCTION BOX (CEILING MTD) ▽ DATA OUTLET (FLOOR MTD) ▽ TELEPHONE OUTLET (WALL MTD) ▽ TELEPHONE OUTLET (FLOOR MTD) ▽ TELEPHONE/DATA OUTLET ▽ TELEPHONE/DUPLEX OUTLET (FLOOR MTD) ▽ TELEPHONE/DATA/DUPLEX OUTLET (FLOOR MTD) \$ SWITCH \$³ 3-WAY SWITCH \$⁴ 4-WAY SWITCH \$^D DIMMER SWITCH \$^T THERMAL OVERLOAD SWITCH \$^a CONTROLLING OUTLET OR FIXTURE ON SWITCH LEG 'a' \$^K KEYED SWITCH \$^{OV} MANUAL OVERRIDE SWITCH PC PHOTOCELL OSI OCCUPANCY SENSOR (WALL MTD) WITH (1) INTEGRAL SWITCH OS2 OCCUPANCY SENSOR (WALL MTD) WITH (2) INTEGRAL SWITCHES OC1 OCCUPANCY SENSOR (CEILING MTD) WITH CORRIDOR SENSING PATTERN OC2 OCCUPANCY SENSOR (CEILING MTD) WITH CORRIDOR SENSING PATTERN SS12 DIGITAL LIGHTING CONTROL SOFT SWITCH X REFERS TO CONTROL SCHEDULE ID#</p>	<p>○ DOWNLIGHT (CEILING MTD) ○ WALL WASHER (CEILING MTD) □ SCONCE (WALL MTD, LINEAR) ○ SCONCE (WALL MTD, ROUND) ○ SCONCE (WALL MTD, HALF ROUND) ○ SURFACE GLOBE ⊕ PENDANT (SMALL) ⊕ PENDANT (LARGE) ▭ PENDANT (LINEAR) ▭ CEILING FIXTURE (RECESSED) ▭ CEILING FIXTURE (SURFACE/SUSPENDED) ▭ STRIP FIXTURE (WALL MOUNTED) ▭ TRACK MOUNTED FIXTURE ▭ POLE MOUNTED FIXTURE (SINGLE ARM) ⊕ POLE MOUNTED FIXTURE (POST TOP) ⊕ EMERGENCY EGRESS FIXTURE ⊕ EXIT SIGN (SHADING INDICATES ILLUMINATED FACE(S)) ✦ CEILING FAN ⊕ IN-GRADE UPLIGHT ⊕ BOLLARD ⊕ SPOT LIGHT ⊕ STEP LIGHT</p> <p>LIGHTING FIXTURE NOTATION (EXAMPLE)</p> <p>A1E — INDICATES FIXTURE TYPE DIAGONAL HATCH & 'E' SUFFIX INDICATE FIXTURE PROVIDED W/ EMERGENCY BATTERY BACKUP H1-12a — INDICATES CIRCUIT NUMBER, LOWERCASE LETTER INDICATES SWITCH LEG DESIGNATION</p>	<p>⊕ MOTOR ⊕ DISCONNECT SWITCH (NON-FUSED) ⊕ DISCONNECT SWITCH ⊕ DISCONNECT STARTER ⊕ THERMOSTAT ⊕ PANEL ('C' INDICATES PANEL NAME) TV TELEVISION OUTLET EV ELECTRIC VEHICLE CHARGING STATION TC TIME CLOCK WITH BATTERY FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR (REMOTE) FIRE ALARM HORN FIRE ALARM STROBE FIRE ALARM STROBE/HORN FIRE ALARM PULL STATION FIRE/SMOKE DAMPER MAGNETIC DOOR HOLDER SMOKE DETECTOR COMBINATION SMOKE/CO DETECTOR SECURITY CAMERA SINGLE PUSH BUTTON 3 PUSH BUTTON</p> <p>CIRCUITING/CONDUIT LINETYPES</p> <p>A1-1 HOMERUN CIRCUIT, PANEL AND CIRCUIT NUMBER INDICATED CONCEALED CONDUIT UNDERGROUND/UNDERSLAB CONDUIT EXPPOSED CONDUIT CONDUIT RUN TURNED DOWN CONDUIT RUN TURNED UP CONDUIT CONTINUATION MARK CONDUIT STUB-OUT</p> <p>NEW/EXISTING/DEMOLITION/FUTURE LINETYPES</p> <p>NEW WORK EXISTING WORK DEMOLITION WORK FUTURE WORK</p>
---	---	---

⊕ PAD MOUNTED UTILITY TRANSFORMER
###/###V, #PH, #W
KVA

⊕ STANDBY/EMERGENCY GENERATOR
###/###V, #PH, #W
KVA, ### KVA

⊕ AUTOMATIC TRANSFER SWITCH
###ATP

⊕ DRY-TYPE TRANSFORMER

⊕ UTILITY METER

⊕ UTILITY METER & CT's

⊕ UTILITY METER (INTEGRAL)

⊕ UTILITY METER & CT's (INTEGRAL)

⊕ METER STACK

⊕ HOUSE

⊕ FUSED SWITCH (DIAGRAMMATIC)

⊕ CIRCUIT BREAKER (DIAGRAMMATIC)

⊕ PULL OUT FUSED SWITCH (DIAGRAMMATIC)

⊕ PANEL BOARD (DIAGRAMMATIC)

⊕ MAIN OCPD GROUND FAULT PROTECTION

⊕ FEEDER TAG

⊕ FAULT CALCULATION NODE

ABBREVIATIONS

X' X'	MOUNTING HEIGHT
A / AMP	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE COUNTER GFI DEVICE
AHU	AIR HANDLING UNIT
AIC	FAULT CURRENT CAPACITY
AL	ALUMINUM
C	CONDUIT
CLG	CEILING
CU	COPPER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DYR	DRYER
DW	DISHWASHER
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	WATER COOLER
EXP	EXPLOSION PROOF
G	GROUND
GD	GARBAGE DISPOSER
GFI	GROUND FAULT INTERRUPTER
HD	EXHAUST HOOD
HP	HORSEPOWER
MW	MICROWAVE
MDP	MAIN DISTRIBUTION PANELBOARD
MH	MANHOLE
MTD	MOUNTED
MVOLT	MULTI-VOLTAGE
N	NEUTRAL
NL	NITE LIGHTING
PH	PHASE
REF	REFRIGERATOR
RNG	RANGE
(RL)	RELOCATED
RTU	ROOF TOP UNIT
TS	THERMAL SWITCH
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL
WG	WEATHERPROOF GFI
WP	WEATHERPROOF
WRM	WARMING DRAWER
WSH	WASHER

CODES AND DESIGN CRITERIA	
JURISDICTION:	CASTLE ROCK, CO
ELECTRICAL CODE:	2020 NEC
ENERGY CODE:	2018 IECC
LOCAL AMENDMENTS:	TITLE 15 OF MUNICIPAL CODE
ELECTRIC UTILITY:	CORE ELECTRIC
OCCUPIED LEVELS:	1

ELECTRICAL SHEET LIST	
NUMBER	TITLE
E0.01	ELECTRICAL SPECS & LEGENDS
E0.02	ELECTRICAL ONE-LINE DIAGRAM
E1.01	FLOOR PLAN - POWER DEMO
E1.02	FLOOR PLAN - LIGHTING DEMO
E2.01	FLOOR PLAN - POWER
E2.02	ROOF PLAN - POWER
E3.01	FLOOR PLAN - LIGHTING
E6.01	ELECTRICAL ENERGY CALCULATIONS
SHEET TOTAL: 8	

DRAWING NOTES:

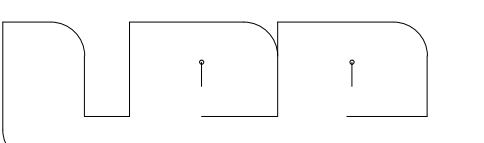
1. LIGHTING FIXTURES AND DEVICES SHOWN IN SOLID, LIGHT LINETYPE ARE EXISTING TO REMAIN, U.O.N. E.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE THE INSTALLATION OF NEW EQUIPMENT WITH CURRENT FIELD CONDITIONS.
2. LIGHTING FIXTURES AND DEVICES SHOWN IN SOLID, BOLD LINETYPE ARE TO BE INSTALLED UNDER NEW WORK, U.O.N.
3. (RL) INDICATES AN EXISTING FIXTURE TO BE RELOCATED.
4. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER U.O.N. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET. ALL WIRING SHALL BE IN APPROVED RACEWAY.
5. ALL LIGHT FIXTURES SHALL BE CIRCUITED TO PANEL AS NOTED, NUMBERS INDICATE CIRCUITING.
6. VERIFY LIGHT FIXTURE SCHEDULES, LOCATIONS, QUANTITIES, AND LIGHTING CONTROL REQUIREMENTS. PROVIDE LIGHTING AND CONTROLS AS REQUIRED.
7. ALL EXIT SIGNS AND EGRESS LIGHTS SHALL BE CONNECTED TO LIGHTING CIRCUIT IN AREA AND WIRED TO AN UN-SWITCHED HOT LEG.
8. NO EQUIPMENT, DEVICES, FURNITURE, OR THE LIKE SHALL BE INSTALLED OR PLACED IN FRONT OF ELECTRICAL PANELS OR EQUIPMENT THAT WOULD VIOLATE CODE REQUIREMENTS FOR WORKING CLEARANCE.

KEY NOTES:

1. EXISTING PANELBOARD TO REMAIN, LOCATED WITHIN TRAILER.
2. P-TYPE LIGHT FIXTURES TO BE HUNG AT 13' AFF. COORDINATE EXACT LOCATIONS WITH MECHANICAL DUCTING.
3. UTILIZE EXISTING SWITCH STATION AND EXISTING SHUTOFF CONTROLS TO CONTROL LIGHTING IN LOBBY.



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 CASTLE ROCK, CO 80104



Job No: 24010

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Date: 11-18-2024

Drawn by: _____ Checked by: _____

Title: FLOOR PLAN - LIGHTING

E3.01

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

