



NOTES

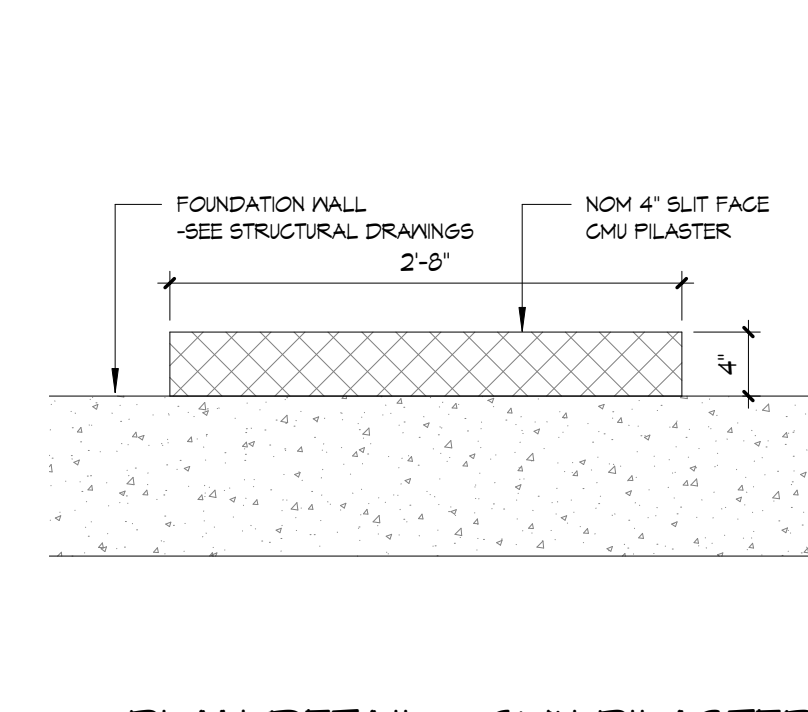
1. UNIVERSAL "WHEELCHAIR" SYMBOLS ON PAINTED ALUMINUM
2. CHARACTERS AND BACKGROUND SHALL HAVE EGGSHELL, MATTE, OR OTHER NON-GLOSS FINISH
3. CHARACTERS AND BACKGROUND SHALL CONTRAST: EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND
4. PROVIDE BRAILLE AND RAISED LETTERING
5. PERMANENT IDENTIFICATION PROVIDED FOR ROOMS AND SPACES SHALL BE INSTALLED ON THE PLATE ADJACENT TO THE LATCH SIDE OF DOOR
6. WHERE THERE IS NO PLATE SPACE TO LATCH SIDE OF DOOR, LOCATIONS AT DOUBLE-LEAF DOORS, SIGNS SHALL BE PLACED ON THE INSIDE LEAF OF DOOR
7. MOUNTING LOCATION FOR SIGN SIGNATURE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3' OF SIGNAGE WITHOUT ENCOUNTERING OBSTACLES OR STANDING WITHIN THE SPRING OF A DOOR



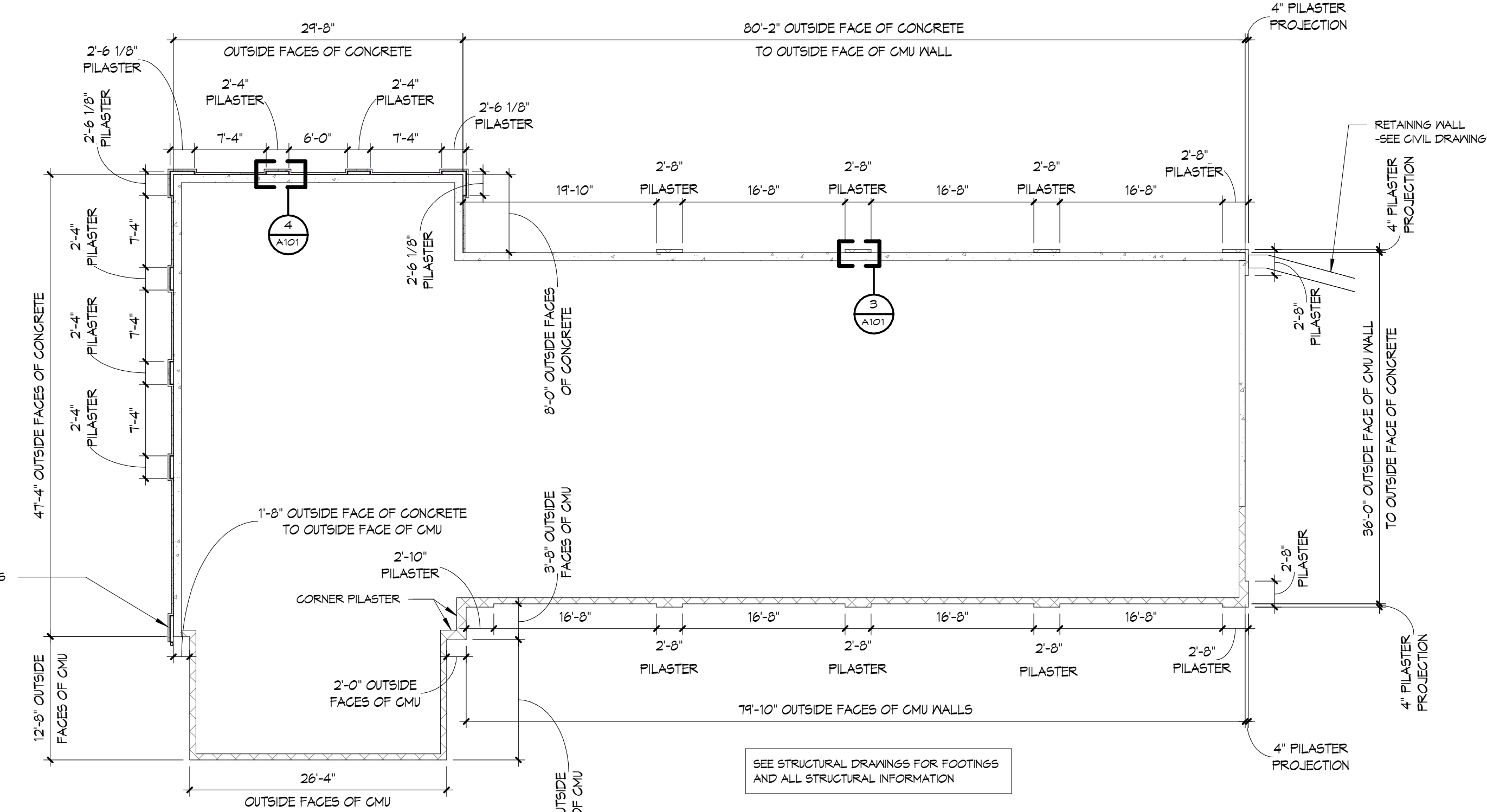
CODE LEGEND

	1 HOUR FIRE RATING
	FIRE EXTINGUISHER PATH
	EGRESS PATH
	ACCESSIBLE CLEARANCES
	2A10B-G FIRE EXTINGUISHER CABINET IV 2A10B-G
	FIRE EXTINGUISHER - WALL MOUNTED
	ILLUMINATED EXIT SIGNAGE

CODE INFORMATION			
PROJECT NAME:	EAGLE BUILDING SOLUTIONS; OFFICE & EQUIPMENT SHOP BUILDING		
PROJECT LOCATION:	E MAIN ST & N GAK ST, LITITZ, PA 17543 LITITZ BOROUGH		
PROJECT OCCUPANCY:	SEPARATED MIXED USE - GROUP B (BUSINESS) & S-1 (STORAGE)		
FIRE PROTECTION:	NON-SPRINKLERED		
BUILDING HEIGHT:	2-STORY 32'-0" ABOVE FINISH GRADE		
BUILDING SITE FOOTPRINT	4,644 SQUARE FEET (OUTSIDE FACE OF EXTERIOR WALLS)		
BUILDING AREA: (INSIDE FACE OF EXTERIOR WALLS)			
FIRST FLOOR	=	4,410 SQUARE FEET	
SECOND FLOOR	=	1,920 SQUARE FEET	
BUILDING TOTAL	=	5,310 SQUARE FEET	
SCOPE OF WORK			
NEW CONSTRUCTION OF SEPARATED MIXED-USE BUILDING.			
APPLICABLE BUILDING AND LIFE SAFETY CODES			
2010 (IBC)	INTERNATIONAL BUILDING CODE		
2009 (ICC)	ANSI A117.1		
2010 (IMC)	INTERNATIONAL MECHANICAL CODE		
2010 (IPC)	INTERNATIONAL PLUMBING CODE		
2010 (IECC)	INTERNATIONAL ENERGY CONSERVATION CODE		
2010 (IFC)	INTERNATIONAL FIRE CODE		
2010 (IFGC)	INTERNATIONAL FUEL GAS CODE		
2017 (NEC)	NATIONAL ELECTRIC CODE (NFPA-70)		
2010	DOJ ADA STANDARDS FOR ACCESSIBLE DESIGN		
CODE	IBC		REFERENCE (SECTION)
USE AND OCCUPANCY CLASSIFICATION	SEPARATED MIXED USE: B & S-1		IBC CH 3
CONSTRUCTION CLASSIFICATION	VB		IBC 602
OCCUPANT LOAD	30 OCCUPANTS		IBC TABLE 1004.5
HEIGHT AND AREA LIMITATIONS	MAXIMUM		CHAPTER 5
ALLOWABLE HEIGHT	40'	32'	IBC TABLE 504
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE	B-2 5-1-1	B-2 5-1-1	IBC TABLE 504.1
TABLE ALLOWABLE AREA	4,000 SF	4,410 SF	IBC TABLE 506 & IBC 506.3
SEPARATION OF OCCUPANCIES	5-1 B + 0-HR	0-HR	IBC TABLE 506.3
FIRE RESISTIVE CONSTRUCTION			CHAPTER 6
PRIMARY STRUCTURAL FRAME BEARING WALLS (EXTERIOR)	0-HR	0-HR	IBC TABLE 601
BEARING WALLS (INTERIOR)	0-HR	0-HR	IBC TABLE 601
NON-BEARING WALLS (EXTERIOR)	0-HR	0-HR	IBC TABLE 601
NON-BEARING WALLS (INTERIOR)	0-HR	0-HR	IBC TABLE 601
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0-HR	0-HR	IBC TABLE 601
ROOF CONSTRUCTION & SECONDARY MEMBERS	0-HR	0-HR	IBC TABLE 601
WALLS (EXTERIOR) BASED ON BUILDING FIRE SEPARATION DISTANCE	0-HR	0-HR	IBC TABLE 602
OPENING REQUIREMENTS	0-HR	N/A	IBC TABLE 716.1
EXIT ACCESS CORRIDOR	0-HR	N/A	IBC TABLE 1002.2
OPENING REQUIREMENTS	0-HR	0-HR	IBC TABLE 716.1
EXIT ENCLOSURE (CONNECTING WALLS & VERTICAL OPENINGS)	N/A	N/A	IBC TABLE 716.1
OPENING REQUIREMENTS	0-HR	0-HR	IBC TABLE 716.1
SMOKE AND FIRE PROTECTION FEATURES			IBC TABLE 716.1
FIRE WALL	N/A	N/A	IBC TABLE 706.1
FIRE BARRIER	N/A	N/A	IBC TABLE 707.3
SHUTTLE ELEVATOR & INTERIOR EXIT STAIRWAYS	N/A	N/A	IBC 712, 715.4, 1023.2
FIRE PARTITION	N/A	N/A	IBC 708
SMOKE BARRIER & SMOKE COMPARTMENTS	N/A	N/A	IBC 104, 107.5, 422.2 & 708
SMOKE PARTITION	N/A	N/A	IBC 710
CONCEALED SPACES - DRAFTSTOP, FIREBLOCKS, ETC.	AS REQUIRED	PROVIDED	IBC 718.2, 718.5 & 719.4
ROOF ASSEMBLY INFORMATION			IBC CHAPTER 15
FIRE CLASSIFICATION	CLASS "C"	CLASS "C"	IBC TABLE 1505
MEANS OF EGRESS (SPRINKLERED BUILDINGS)	HEADROOM (STAIR ONLY MIN. 6'-8" & CEILING AREA MIN. 7'-6")		IBC CHAPTER 10
DOORS / CORRIDORS / RAMPS (TOTAL OCCUPANTS / # OF EXITS X 0.20)	14.67' MIN	33"	IBC 1009.1.1009.3 PROTECTIONS
DEAD END CORRIDOR	MAX 20 FT	< 20 FT	IBC 1020.4
COMMON PATH OF EGRESS TRAVEL	75' MIN	< 75 FT	IBC TABLE 1009.3.1009.3.2
MINIMUM EGRESS DOOR OPENING WIDTH	32" MIN	33"	IBC 1010.1
EXIT ACCESS TRAVEL DISTANCE / TRAVEL DISTANCE TO EXIT	MAX 200 FT	< 200 FT	IBC TABLE 1010.1
EXIT ACCESS TO A PUBLIC WAY	REQUIRED	PROVIDED	IBC 1028.5
ACCESSIBLE PUBLIC ENTRIES	MIN. 60%	100%	IBC 1028.1
ACCESSIBLE MEANS OF EGRESS	REQUIRED	PROVIDED	IBC 1009.1
AUTOMATIC SPRINKLER SYSTEMS	NOT REQUIRED	NOT PROVIDED	IBC CHAPTER 9
FIRE ALARM & DETECTION SYSTEMS	NOT REQUIRED	NOT PROVIDED	IBC 904.1
DETECTION	NOT REQUIRED	NOT PROVIDED	IBC 907
MANUAL FIRE ALARM BOXES	NOT REQUIRED	NOT PROVIDED	IBC 907.4.2
MEANS OF EGRESS ILLUMINATION	REQUIRED		PROVIDED
EXIT SIGNS	REQUIRED	PROVIDED	IBC 1018
FIRE EXTINGUISHERS	REQUIRED	PROVIDED	IBC 906
CLASS A FIRE HAZARDS - ORDINARY HAZARD			TABLE 906.3.1
TRAVEL DISTANCE	75' MAX	< 75'	
MAXIMUM FLOOR AREA PER UNIT OF A	1,500 MAX SF/UNIT OF A	< 1,500 SF/ UNIT OF A	
MAXIMUM FLOOR AREA FOR 2A EXTINGUISHER	3,000 SF	< 3,000 SF	
INTERIOR FINISHES	MINIMUM		
REQUIRED TRAVEL EXIT & PASSAGEWAYS	N/A	N/A	IBC TABLE 503
CORRIDORS PROVIDING EXIT ACCESS	CLASS B	CLASS B	IBC TABLE 503
ROOMS OR ENCLOSED SPACES	CLASS C	CLASS C	IBC TABLE 503
WET AREAS: PROVIDE NON-POROUS MATERIALS	RESTROOMS		IBC 1204
SIGNAGE	CHAPTER 11 & ICC A117.1-2009		
EXTERIOR - (CODE REQUIRED MINIMUM)	REQUIRED	PROVIDED	IBC 1111 & 1111.2
INTERIOR - (CODE REQUIRED MINIMUM)	REQUIRED	PROVIDED	IBC 1101



PLAN DETAIL - CMU PILASTER
AT CONCRETE



1 FOUNDATION WALL PLAN
9/32" = 1'-0"

GENERAL WALL NOTES

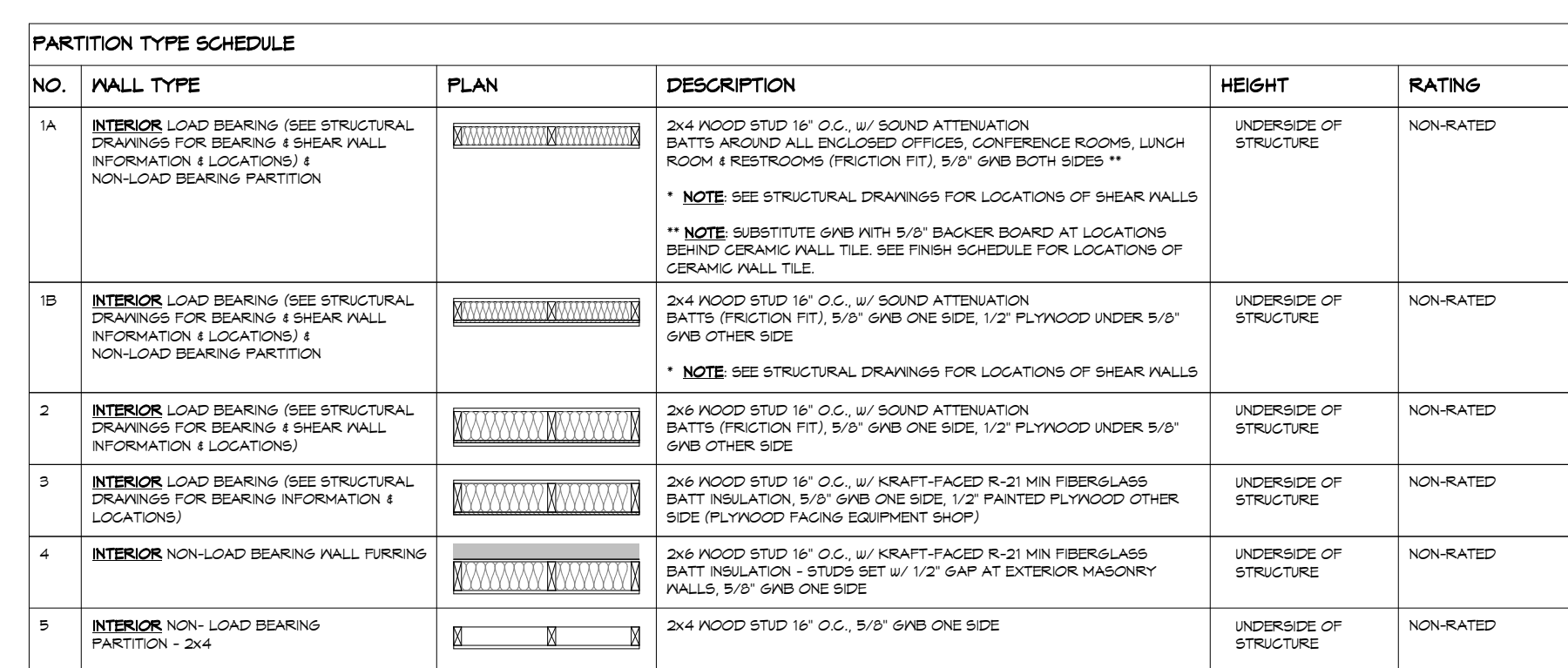
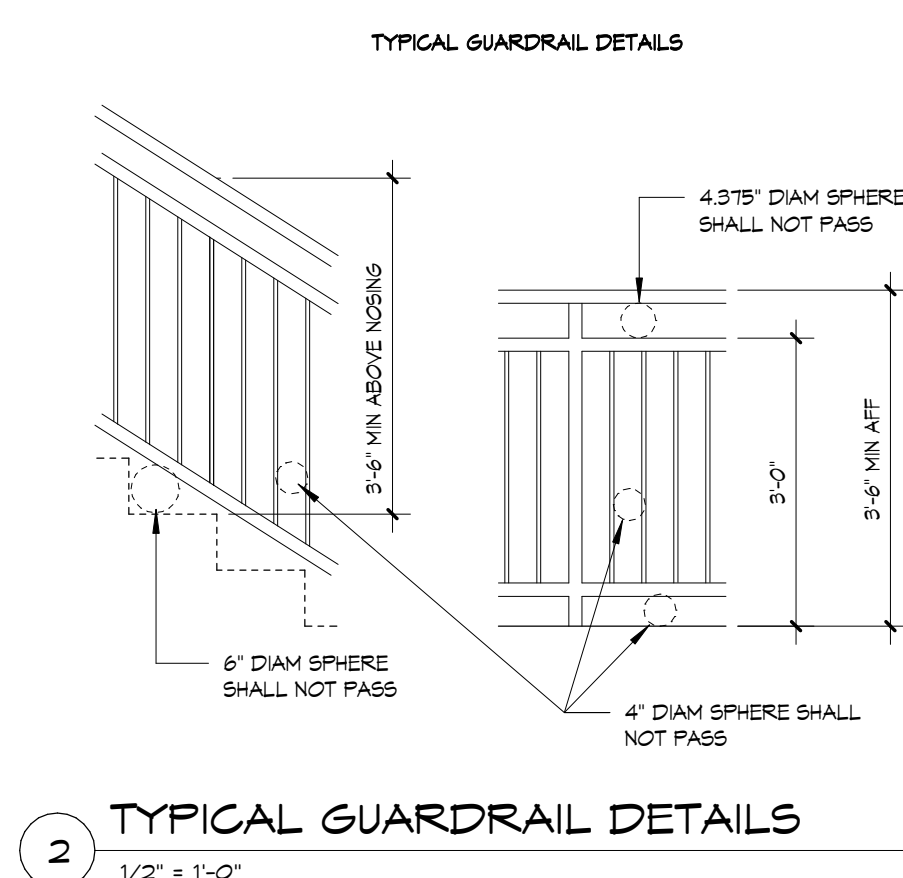
1. PROVIDE SLOTTED TOP TRACK FOR ALL PARTITIONS AS REQUIRED FOR DEFLECTION.
2. ALL GYPSUM BOARD WALL FINISHES TO HAVE 1/2" GAP AT FLOOR SLAB JOINTS.
3. PROVIDE MOSTE RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD IN PET AREAS, SUCH AS: BUT NOT LIMITED TO, LAUNDRY AND BATHING ROOMS, OWNER'S CLOSETS WITH HOT STEAM LAUNDRY AND DISHWASHING AREAS.
4. ALL CORNERS AND ALL VISIBLE DRYWALL EDGES AT OPENINGS PENETRATIONS, CHANGES IN MATERIAL, ETC. SHALL HAVE CORNER BEAD. 1" BEAD OR 1" CHANNEL AS APPLICABLE.
5. PROVIDE THE BACKER BOARD FOR ALL THE TILATIONS. SEE FINISH DRAWING FOR TILES.
6. ALL EXPOSED INTERIOR AND OUTSIDE CORNERS SHALL BE BULLSEED.
7. AT ALL INTERSECTIONS OF RATED AND NON-RATED WALLS, RATED WALL SHALL BE PRIMARY, CONTIGUOUS AND A CLOSED ASSEMBLY. ALL RATED WALL CONSTRUCTION SHALL BE ANKORED BY ANY NON-RATED CONSTRUCTION. NON-RATED WALLS SHALL TERMINATE AT FINISHED SURFACE OF RATED WALL.
8. RATED WALL COMPONENTS SHALL BEAR APPROPRIATE U.L. LABELS. REFER TO U.L. LISTINGS FOR REQUIREMENTS.
9. AT ALL WALLS WITH AN STC RATING, EXTEND WALL TO UNDERLIE FLOOR DECK AND PROVIDE ACoustical SEALANT ASSEMBLY AT ALL JOINTS AND PENETRATIONS. ALL OPENINGS SHALL BE GOT TIGHT TO FIT AND FILLED WITH ACoustical SEALANT AT ALL WALLS.
10. AT ALL WALLS WITH AN STC RATING, STAGGER SECTORED ELEMENTS ON OPPOSING SIDES OF THE WALL IN DIFFERENT STJO SIZES TO REDUCE SOUND TRANSMISSION.

1. PROVIDE SLOTTED TOP TRACK FOR ALL PARTITIONS AS REQUIRED FOR DEFLECTION.
2. ALL GYPSUM BOARD WALL FINISHES HAVE 1/2" GAP AT FLOOR SLAB, TYP. UNLESS NOTED OTHERWISE.
3. PROVIDE MOISTURE RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD IN WET AREAS, SUCH AS, BUT NOT LIMITED TO, BATHS AND TOILETS, JANITORS, CLOSETS WITH MOP SINKS, LAUNDRY AND DISHWASHING AREAS.
4. ALL CORNERS AND ALL VISIBLE DRYWALL JOINTS AT OPENINGS, RECESSES, PENETRATIONS AND TRANSOM SHALL HAVE CORNER BEAD, 1" BEAD OR 1" CHANNEL AS APPLICABLE.
5. PROVIDE THE BACKER BOARD FOR ALL TILE LOCATIONS. SEE FINISH SCHEDULE FOR LOCATIONS.
6. ALL EXPOSED INTERIOR C-40 DOWEL CORNERS SHALL BE BULLGEOSED.
7. ALL INTERSECTIONS OF RATED AND NON-RATED WALLS, RATED WALL SHALL BE PRIMARY, CONTINUOUS AND AS REQUIRED ASSEMBLY. ALL RATED WALL CONSTRUCTION SHALL BE IDENTICAL TO ANY NON-RATED WALL CONSTRUCTION. RATED WALLS SHALL TERMINATE AT FINISHED SURFACE OF RATED WALL.
8. ALL RATED WALL COMPONENTS SHALL BEAR APPROPRIATE UL LABELS. REFER TO UL LISTINGS FOR REQUIREMENTS.
9. AT ALL WALLS WITH AN STC RATING, EXTEND WALL TO UNDERLIE OF ROOF DECK AND PROVIDE ACoustICAL SEALANT TO SEAL ALL JOINTS AND PENETRATIONS. PROVIDE SEALANT TO BE GUT TIGHT TO RATED AND INFLLED WITH ACoustICAL SEALANT.
10. AT ALL WALLS WITH AN STC RATING, STAGGER SEISMIC ELEMENTS ON OPPOSING SIDES OF THE WALL IN DIFFERENT STUD SPACINGS TO REDUCE SOUND TRANSMISSION.

WALL NOTES

1. AT ALL INTERSECTIONS OF RATED AND NON-RATED WALLS, RATED WALL SHALL BE PRIMARY, CONTINUOUS AND A CLOSED ASSEMBLY. ALL RATED WALL CONSTRUCTION SHALL BE UNINTERRUPTED BY ANY NON-RATED CONSTRUCTION. NON-RATED WALLS SHALL TERMINATE AT FINISHED SURFACE OF RATED WALLS.
2. ALL RATED WALL COMPONENTS SHALL BEAR APPROPRIATE UL LABELS. REFER TO UL LISTINGS FOR REQUIREMENTS.
3. AT ALL WALLS WITH AN ETC RATING, EXTEND WALL TO UNDERSIDE OF ROOF DECK AND PROVIDE ACOUSTICAL SEALANT ASSEMBLY AT ALL JOINTS AND PENETRATIONS. ALL OPENINGS SHALL BE CUT TIGHT TO FIT AND FILLED WITH ACOUSTICAL SEALANT ASSEMBLY.
4. AT ALL WALLS WITH AN ETC RATING, STAGGER RECESSED ELEMENTS ON OPPOSITE SIDES OF THE WALL IN DIFFERENT STUD SPACES TO REDUCE SOUND TRANSMISSION.

PERMIT SET



GENERAL FINISH NOTES

1. CONTRACTOR TO FOLLOW ALL MANUFACTURERS WRITTEN SPECIFICATIONS AND PROCEDURES.
2. PROVIDE TRANSITION STRIP AT ALL FLOORING MATERIAL CHANGES AND TRANSITIONS, I.E. CERAMIC TILE TO CARPET, VINYL TO CARPET, ETC. PROVIDE FINISH POSITIVE TRANSITION STRIPS.
3. WHERE FLOORING TRANSITION OCCURS AT DOORS, PROVIDE TRANSITION STRIP AS APPLICABLE AND CENTER TRANSITION STRIP ON CLOSURE.
4. ALL ACCESS PANELS, ELECTRICAL PANELS AND/OR MECHANICAL GRILLES THAT OCCUR IN WALLS, SHALL BE PAINTED TO MATCH ADJACENT SURFACE. NOTIFY ARCHITECT IF A CONDITION OCCURS IN WALLS THAT HAVE A FINISH OTHER THAN PAINT, SUCH AS VINYL COVERINGS, ETC.
5. COORDINATE LOCATION AND QUANTITY OF COUNTER GRONOMETS ON THE SLOPES. GRONOMETS SHALL BE "PLASTIC TO MATCH COUNTERTOP" OR SUBMIT SAMPLE FORM AND APPROVE, UNLESS OTHERWISE NOTED.
6. ALL CABINETS SHALL BE FINISHED ON ALL EXPOSED SURFACES WITH FINISHED INTERIORS, UNLESS NOTED OTHERWISE.



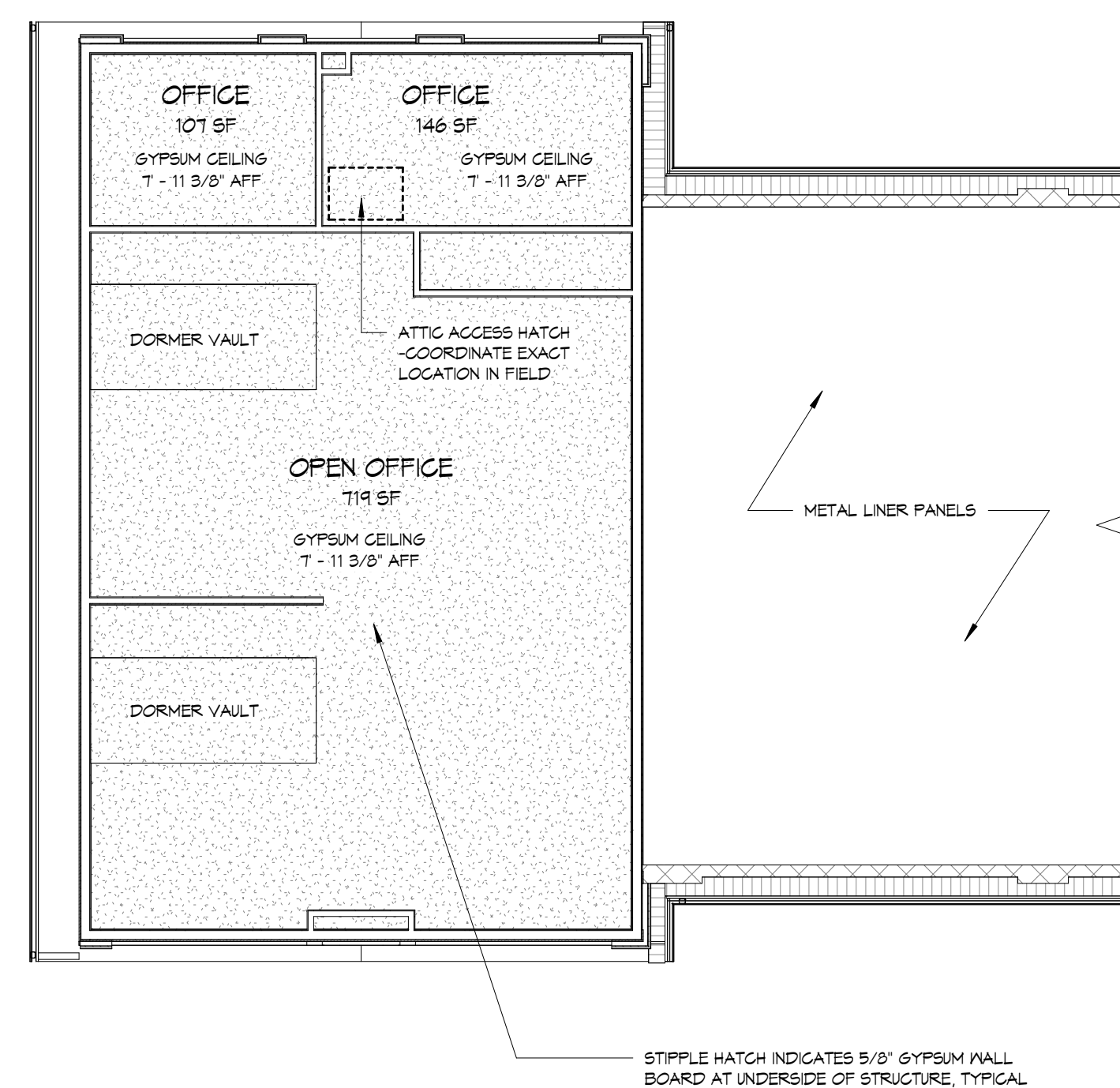
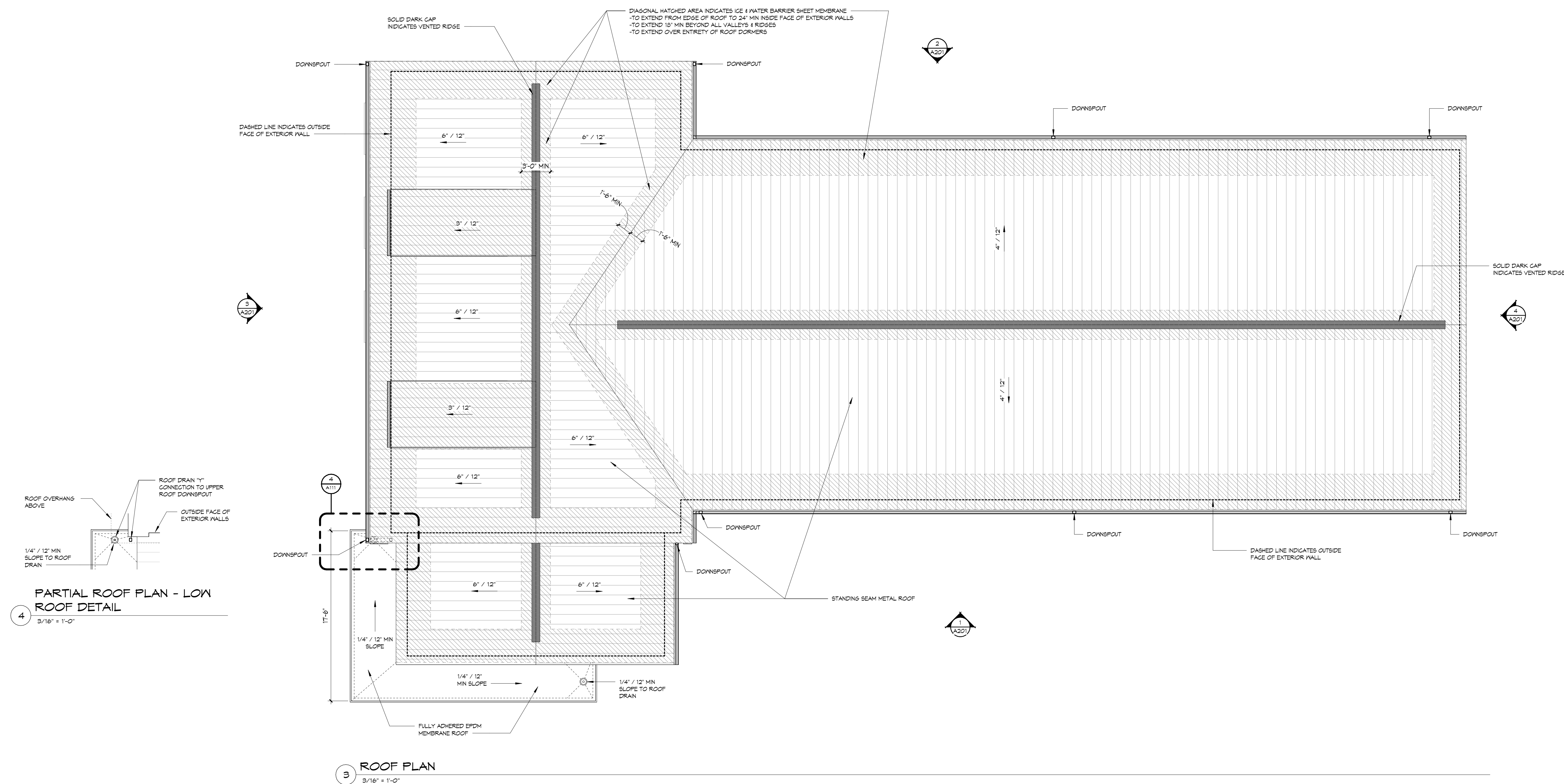
EAGLE BUILDING SOLUTIONS
OFFICE & EQUIPMENT SHOP BLDG
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LITITZ, PA 17545

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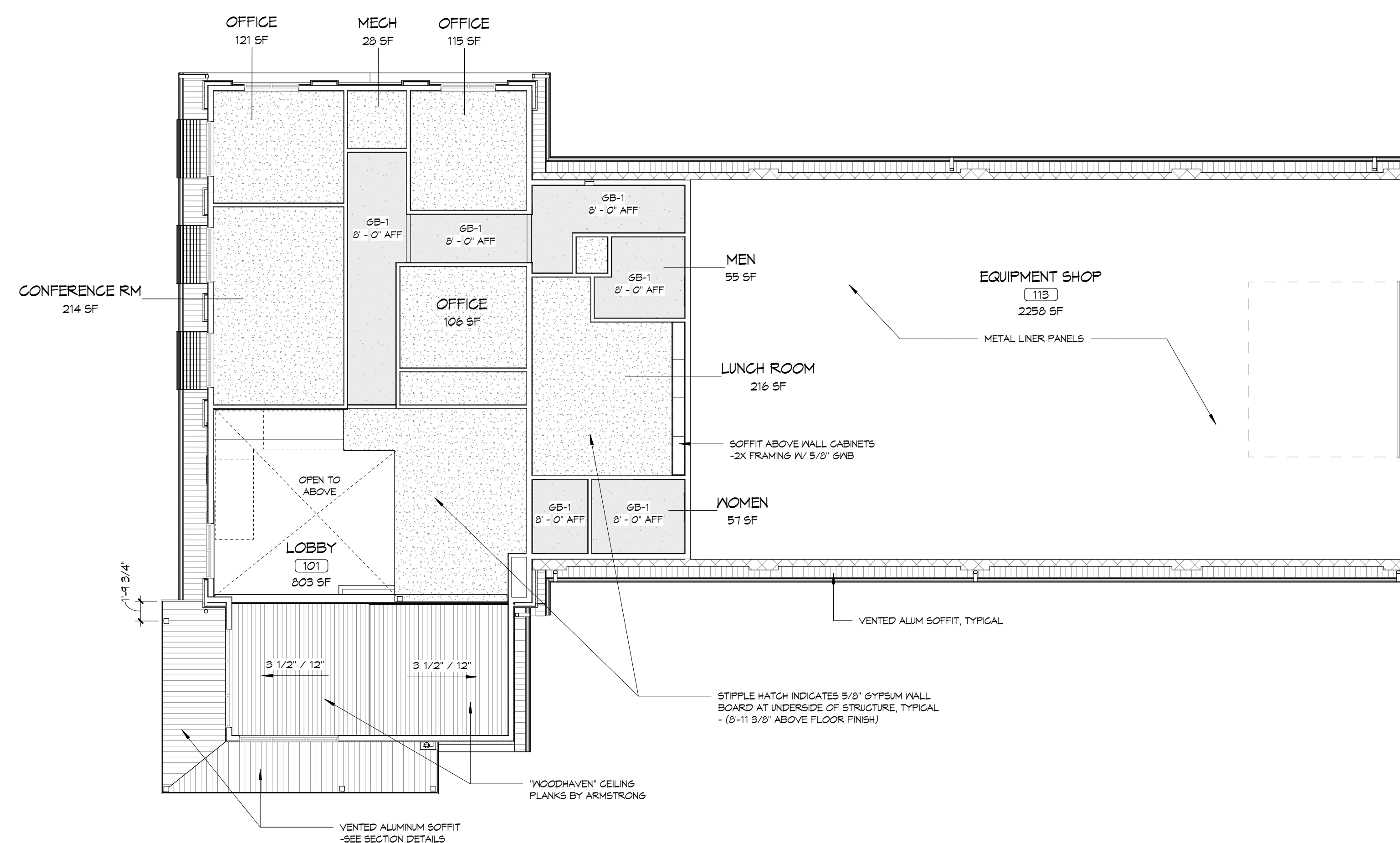
CEILING PLANS,
ROOF PLAN

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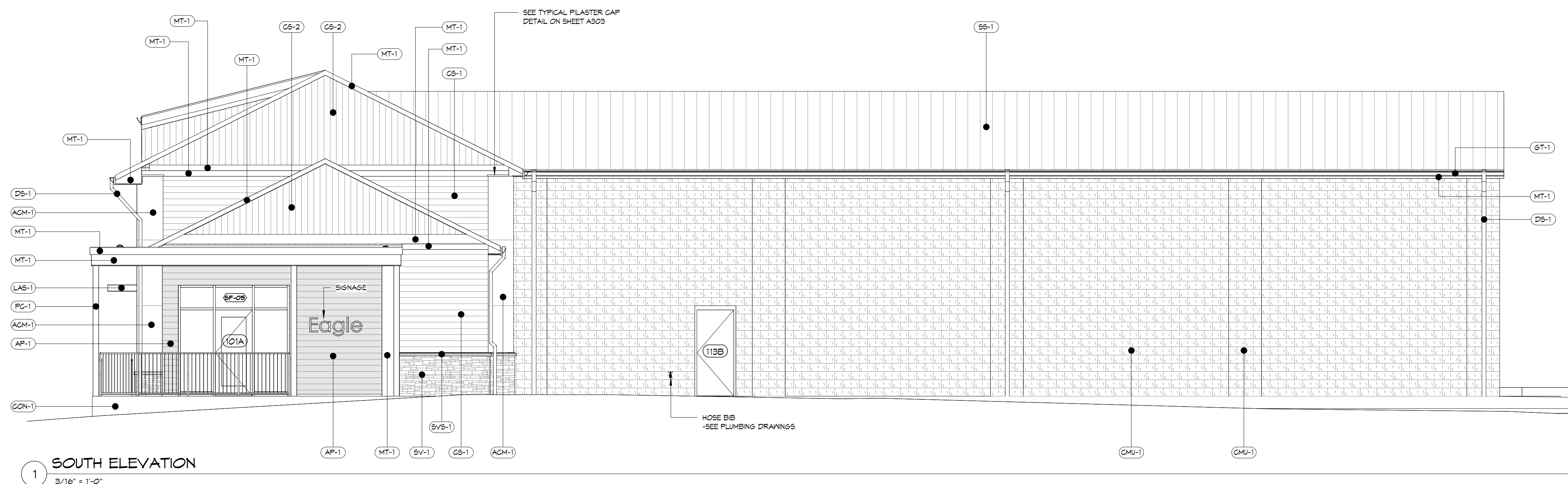
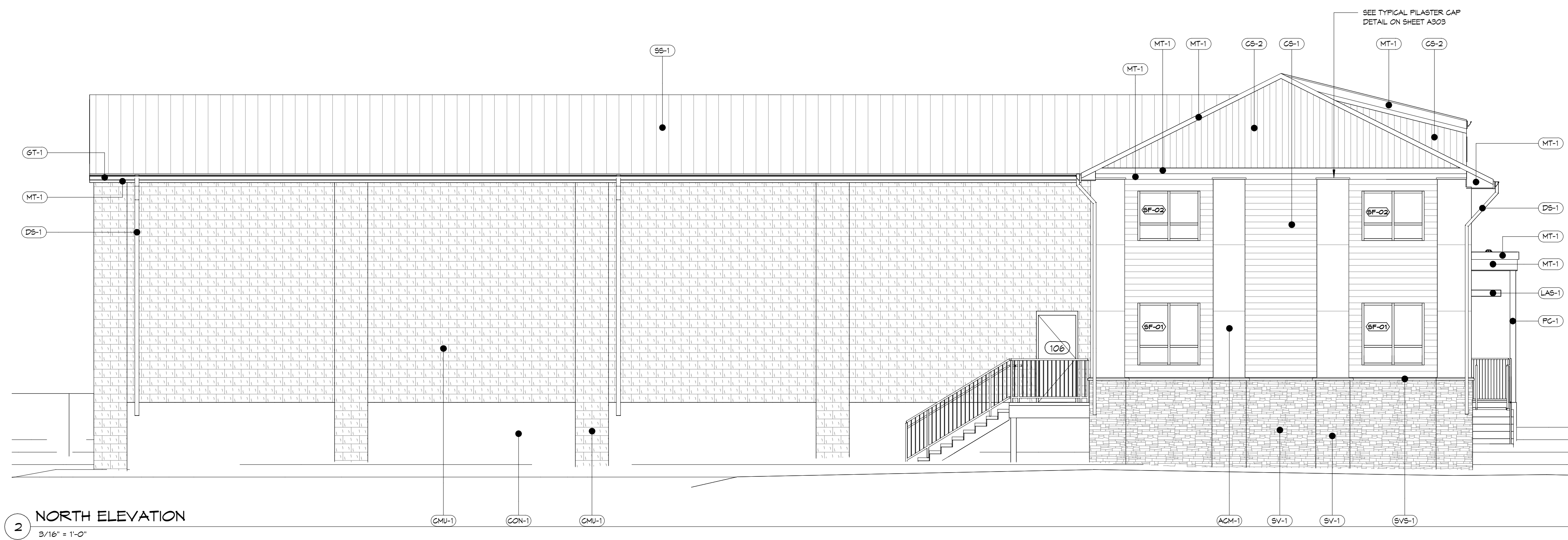
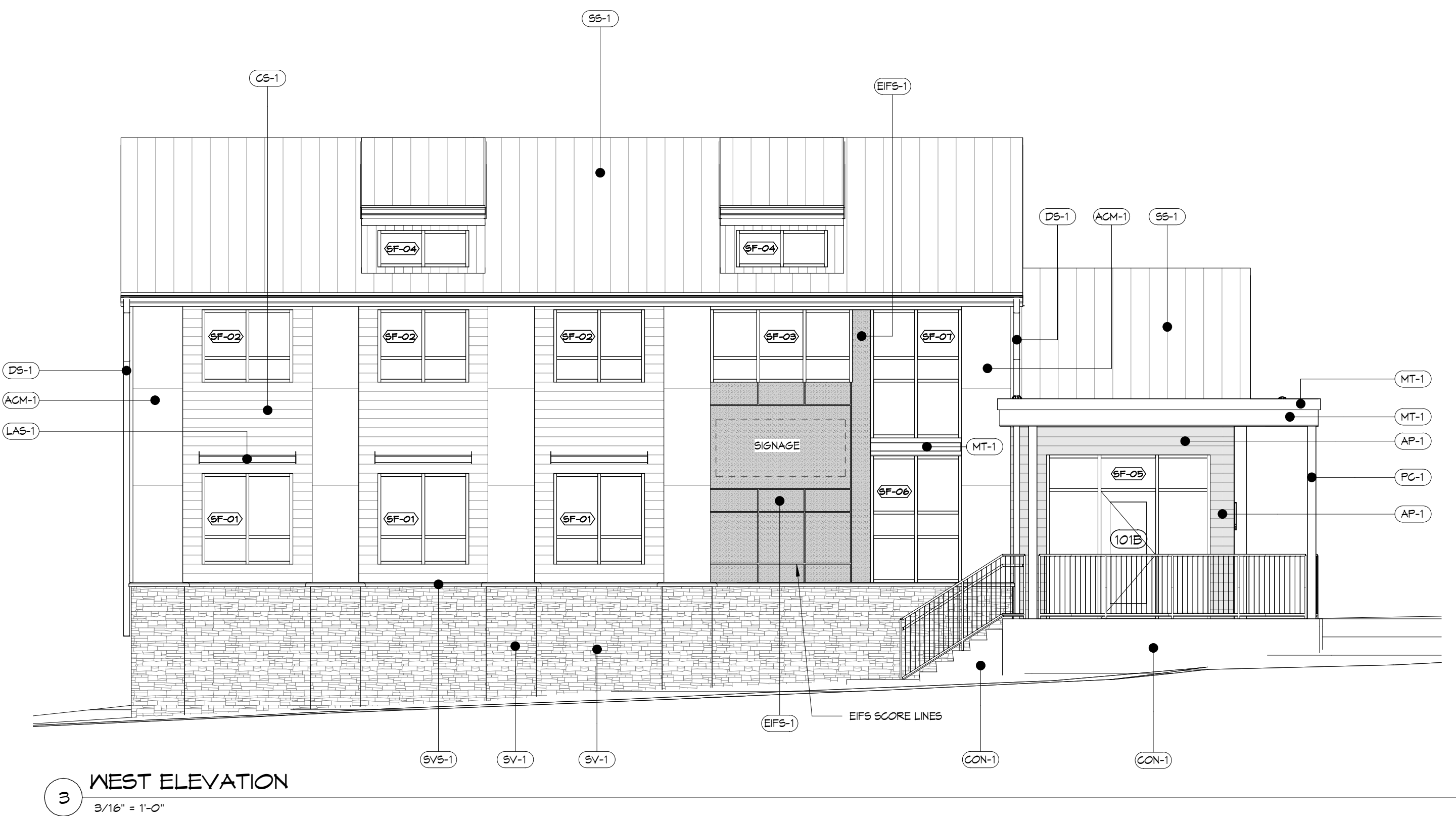
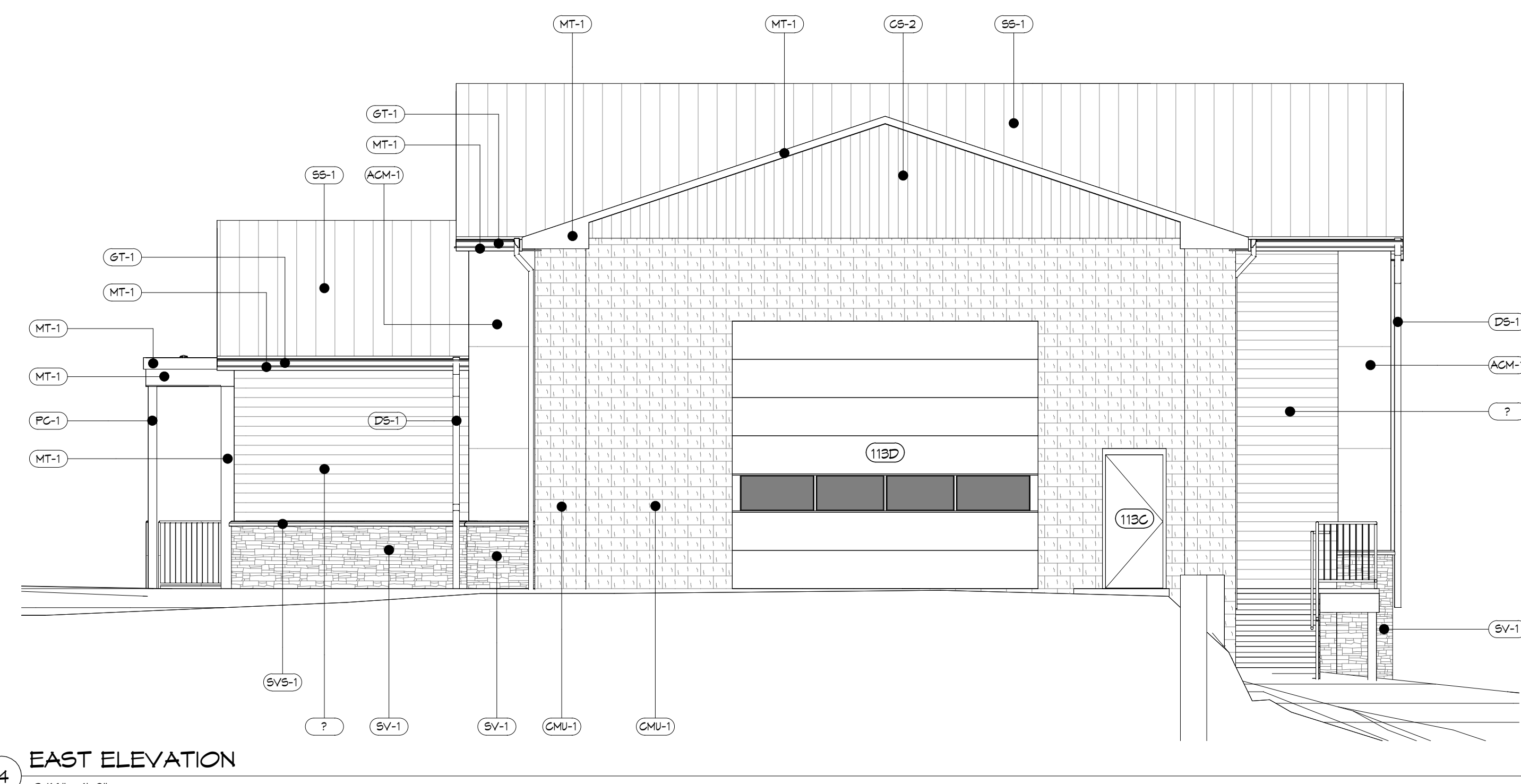
2 REFLECTED CEILING PLAN - FLOOR 2
1/8" = 1'-0"



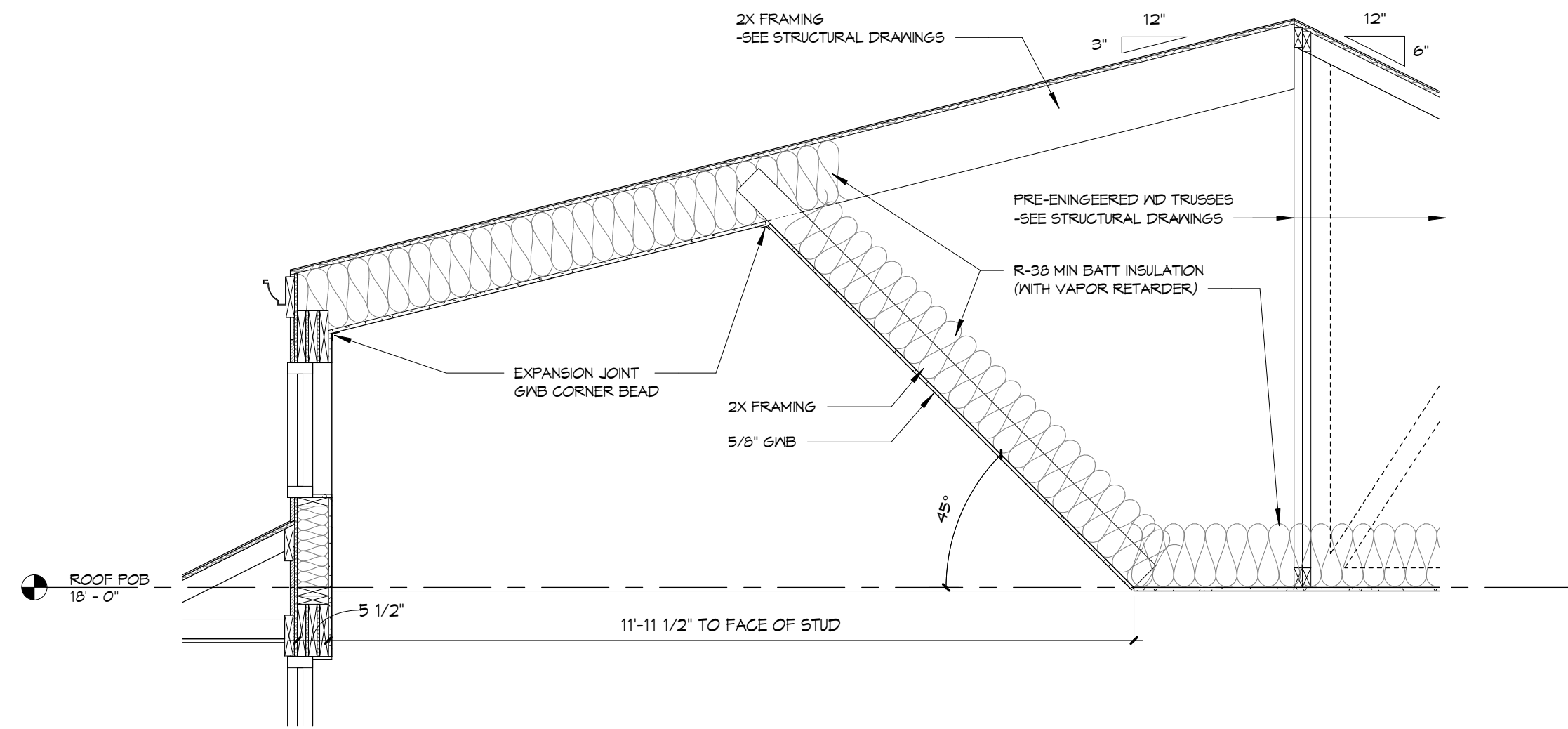
1 REFLECTED CEILING PLAN - FLOOR 1
1/8" = 1'-0"

CEILING LEGEND	
GB-1	GYPSUM BOARD ON WOOD FRAMING (WOOD FRAMING BELOW FLOOR STRUCTURE)
NOTE: SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL COMPONENTS	

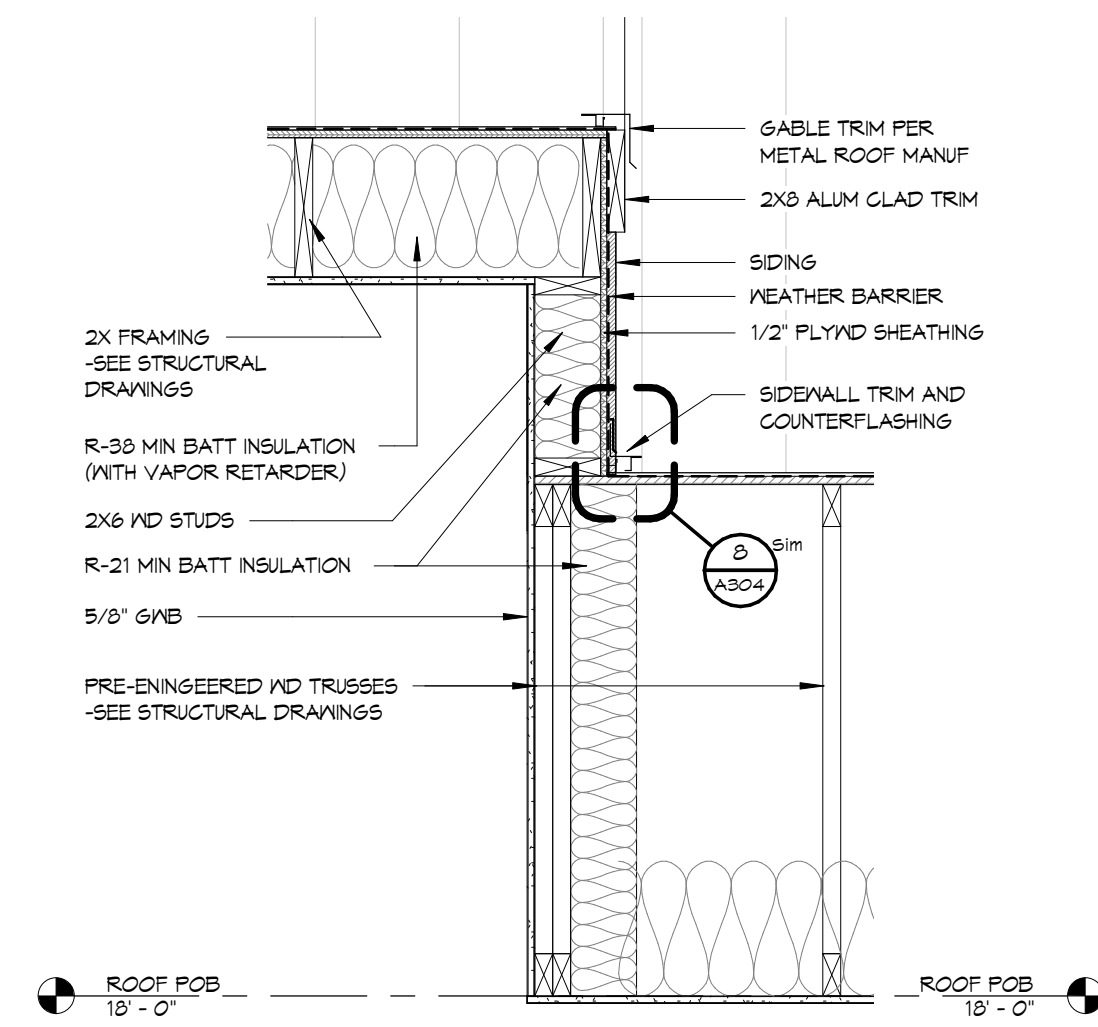
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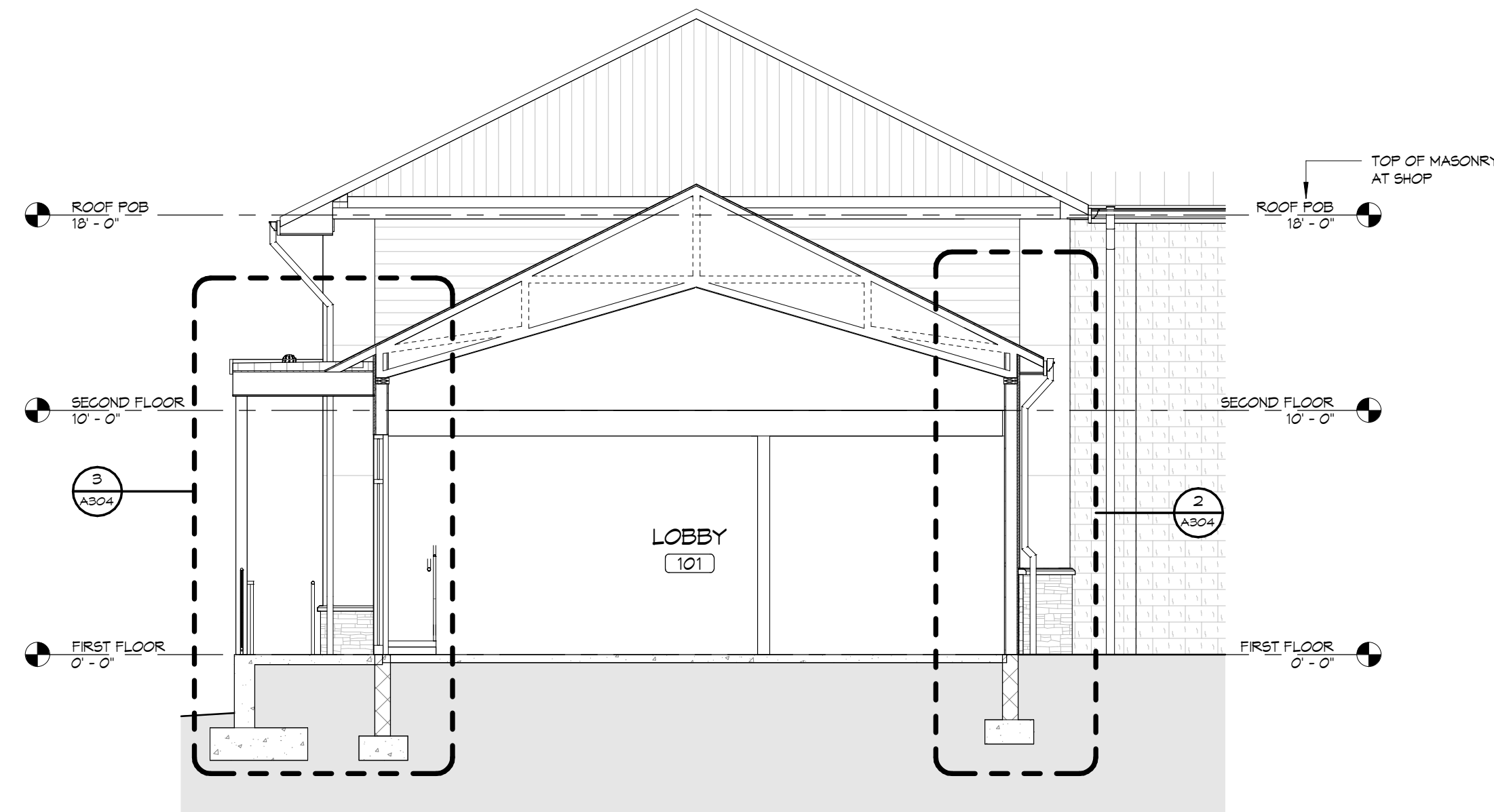
EXTERIOR FINISH/COMPONENT SCHEDULE						
			BASIS OF DESIGN			
MARK	COMPONENT	MATERIAL	MANUFACTURER	DESCRIPTION / MODEL / SIZE	COLOR/FINISH	REMARKS
ACM-1	ACM PANELS	ALUMINUM COMPOSITE MATERIAL	LAMINATORS INC.	OMEGA-LITE PANELS	PVDF - CLASSIC BRONZE	
AP-1	ALUMINUM PLANK	EXTRUDED ALUMINUM	LONGBOARD ARCHITECTURAL PRODUCTS	TONGUE & GROOVE CLADDING SYSTEM - HORIZONTAL 6" V-GROOVE	ITALIAN ROSEWOOD	
CMU-1	SPLIT FACE CMU	CONCRETE MASONRY UNIT	-	SPLIT-FACE FINISH - SEE DETAILS FOR SIZE	MATCH STONE VENEER	
CON-1	CONCRETE	CONCRETE	-	-	-	SEE STRUCTURAL DRAWINGS
CS-1	SIDING	COMPOSITE	EVERLAST	HORIZONTAL LAP SIDING - 1"	NATURAL WHITE	
CS-2	SIDING	COMPOSITE	EVERLAST	EVERLAST VERTICAL BOARD & BATTEN SIDING	NATURAL WHITE	
DS-1	DOWNSPOUT	PREFINISHED ALUMINUM	-	5" X 4" CORRUGATED - .032" THICK	MATCH ACM PANEL COLOR	
EFS-1	EXTERIOR INSULATION & FINISH SYSTEM	EFS	DRYVIT OR EQUAL	OUTSULATION PLUS MD SYSTEM	TEXTURE SANDCAST COLOR TYP - STANDARD	
GT-1	GUTTER	PREFINISHED ALUMINUM	-	5" K-STYLE - SEAMLESS - .032" THICK	MATCH ACM PANEL COLOR	
LAS-1	LOVEDGED ALUMINUM SUNSHADE	PREFINISHED ALUMINUM	-	5-4" (WIDTH VARY N FIELD)	MATCH ACM PANEL COLOR	
MT-1	METAL TRIM CLADDING	PREFINISHED ALUMINUM	-	.024" THICK	PVDF - MATCH ACM PANEL COLOR	
PC-1	POST COVER	PREFINISHED ALUMINUM	-	-	DARK BRONZE MATCH ACM COLOR	
SS-1	STANDING SEAM ROOF	STEEL IV GALVALUME	-	24 GAUGE STEEL - 16" WIDTH - STRIATED PANEL PROFILE	PVDF - DARK BRONZE	
SV-1	STONE VENEER	MANUFACTURED STONE VENEER - ADHERED	PROVA	TERRA CUT	SLATE	
SVS-1	STONE VENEER SILL	MANUFACTURED STONE VENEER - ADHERED	PROVA	TERRA CUT - MANUFACTURERS STANDARD SILL CAP	SLATE	



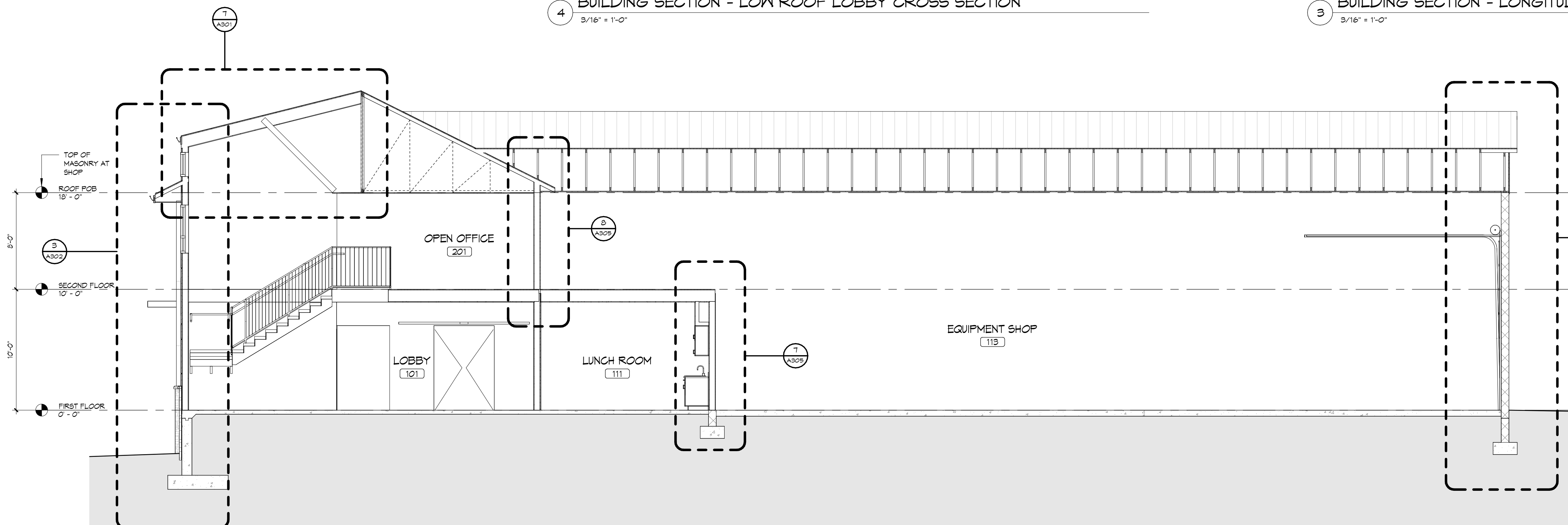
7 SECTION DETAIL - DORMER LONGITUDINAL SECTION
1/2" = 1'-0"



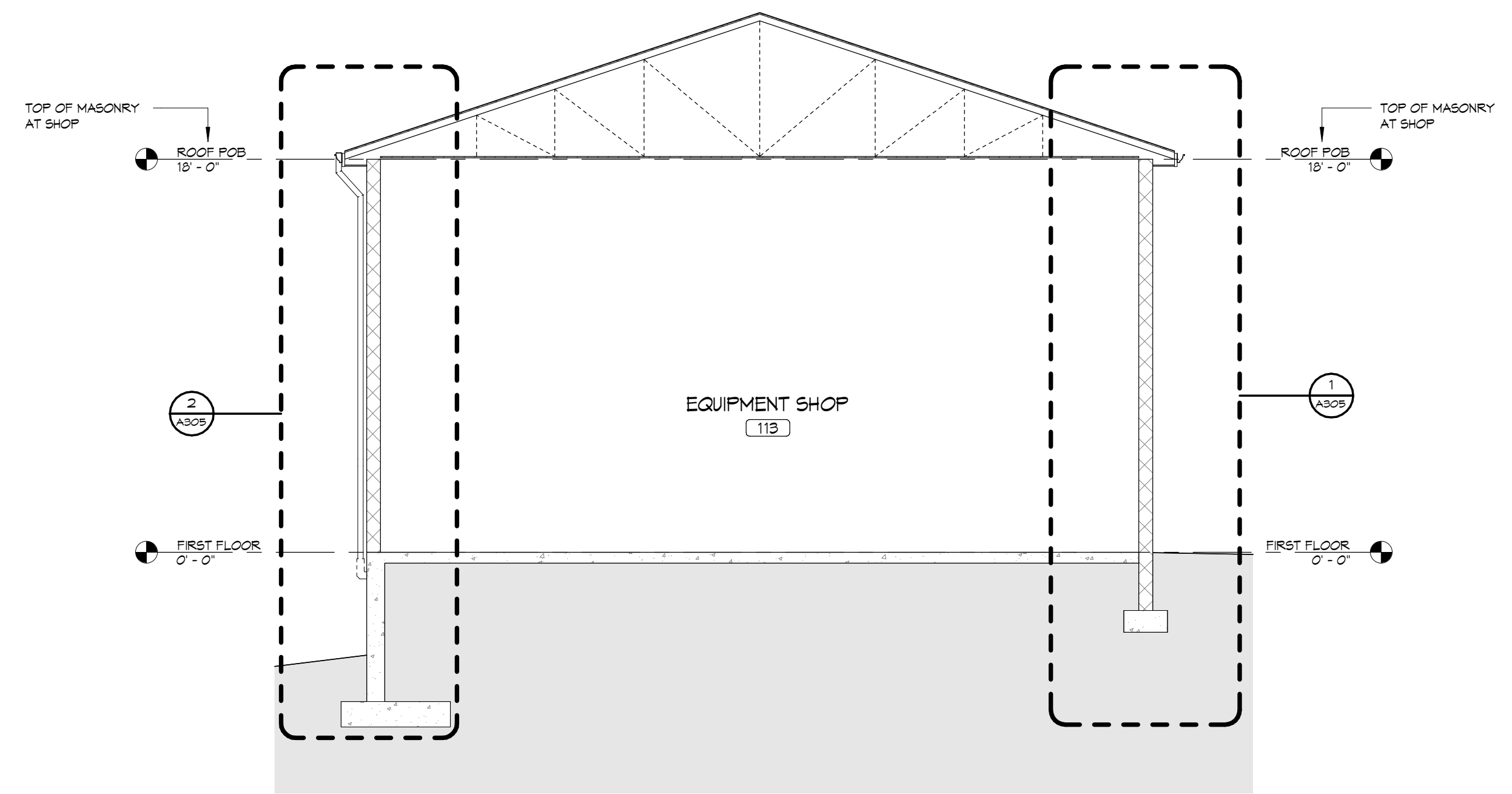
8 SECTION DETAIL - DORMER SIDEWALL
3/4" = 1'-0"



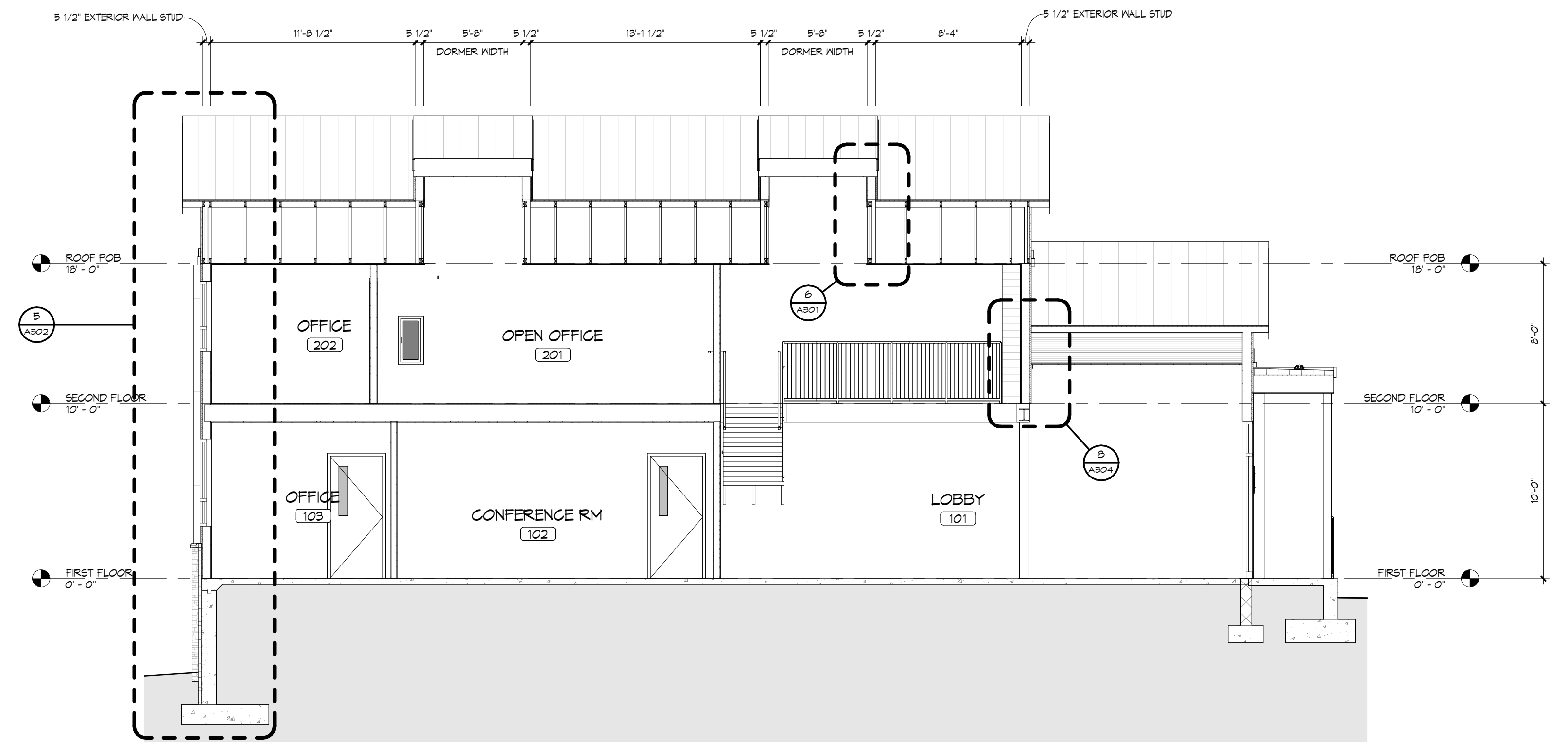
4 BUILDING SECTION - LOW ROOF LOBBY CROSS SECTION
3/16" = 1'-0"



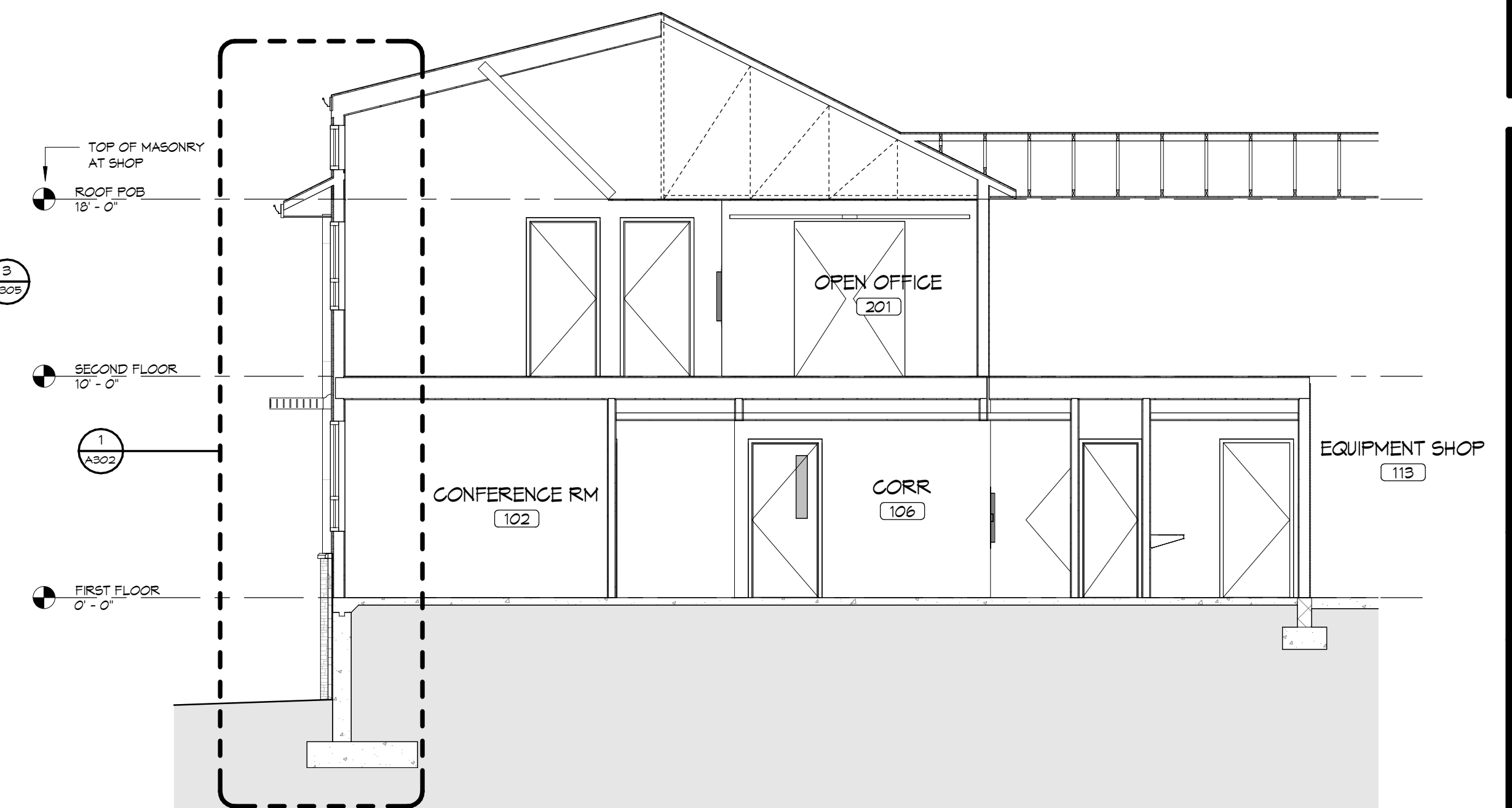
2 BUILDING SECTION - LONGITUDINAL SECTION AT SHOP
3/16" = 1'-0"



5 BUILDING SECTION - SHOP CROSS SECTION
3/16" = 1'-0"



3 BUILDING SECTION - LONGITUDINAL SECTION AT OFFICE
3/16" = 1'-0"



1 BUILDING SECTION - CROSS SECTION AT OFFICE
3/16" = 1'-0"



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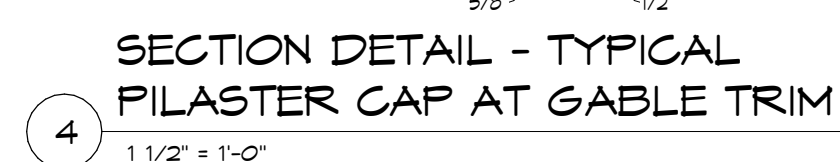
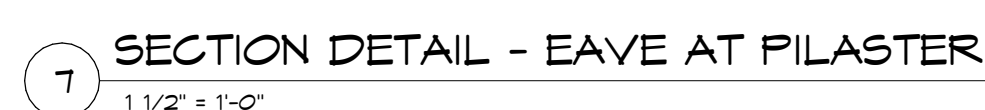
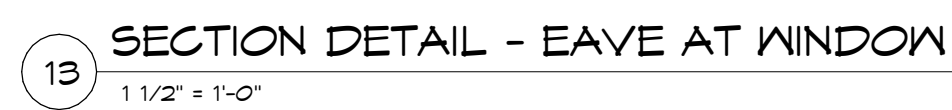
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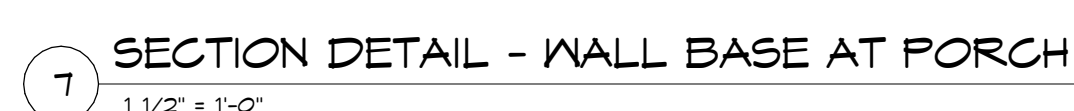
BUILDING
SECTIONS

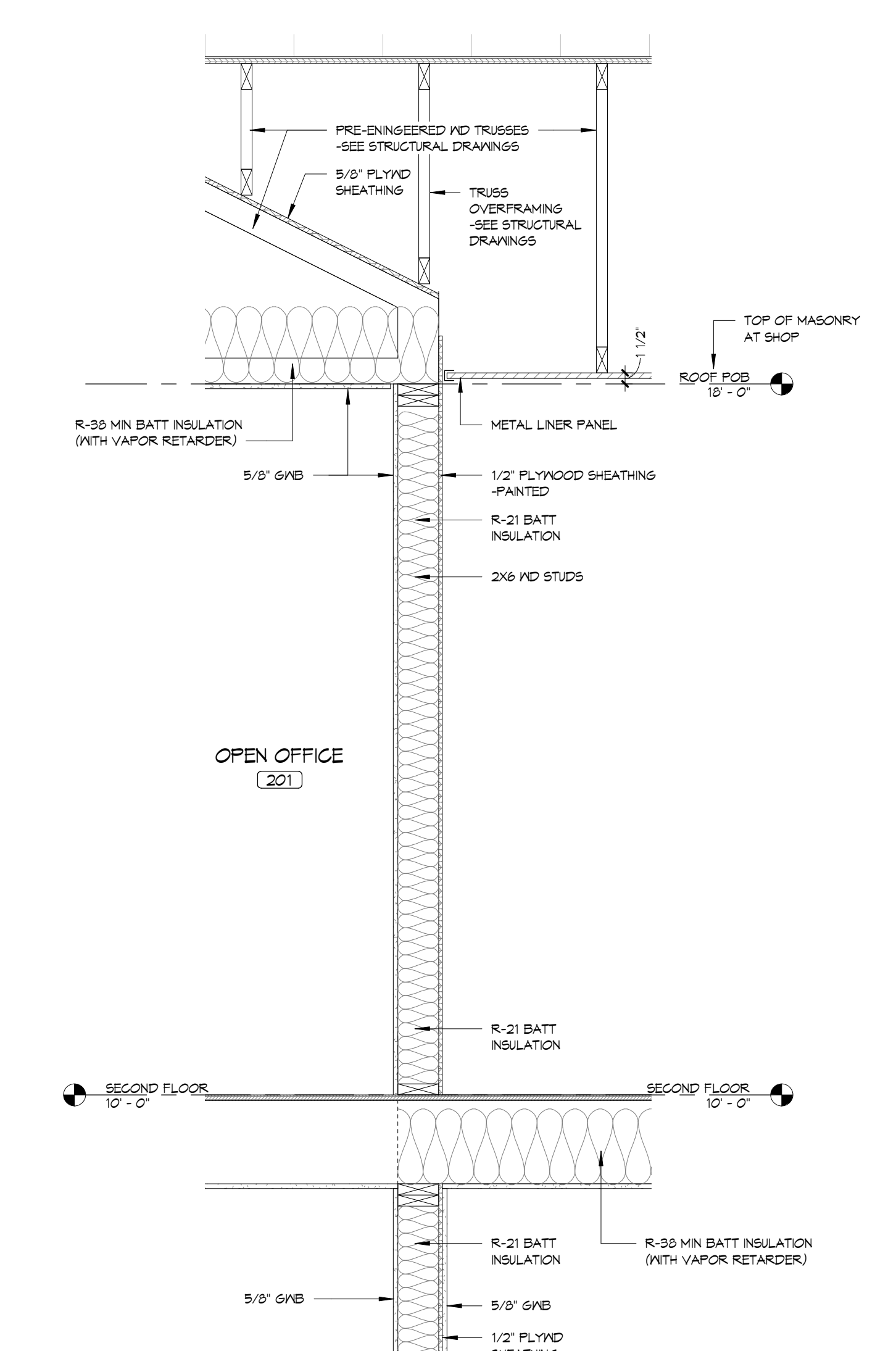
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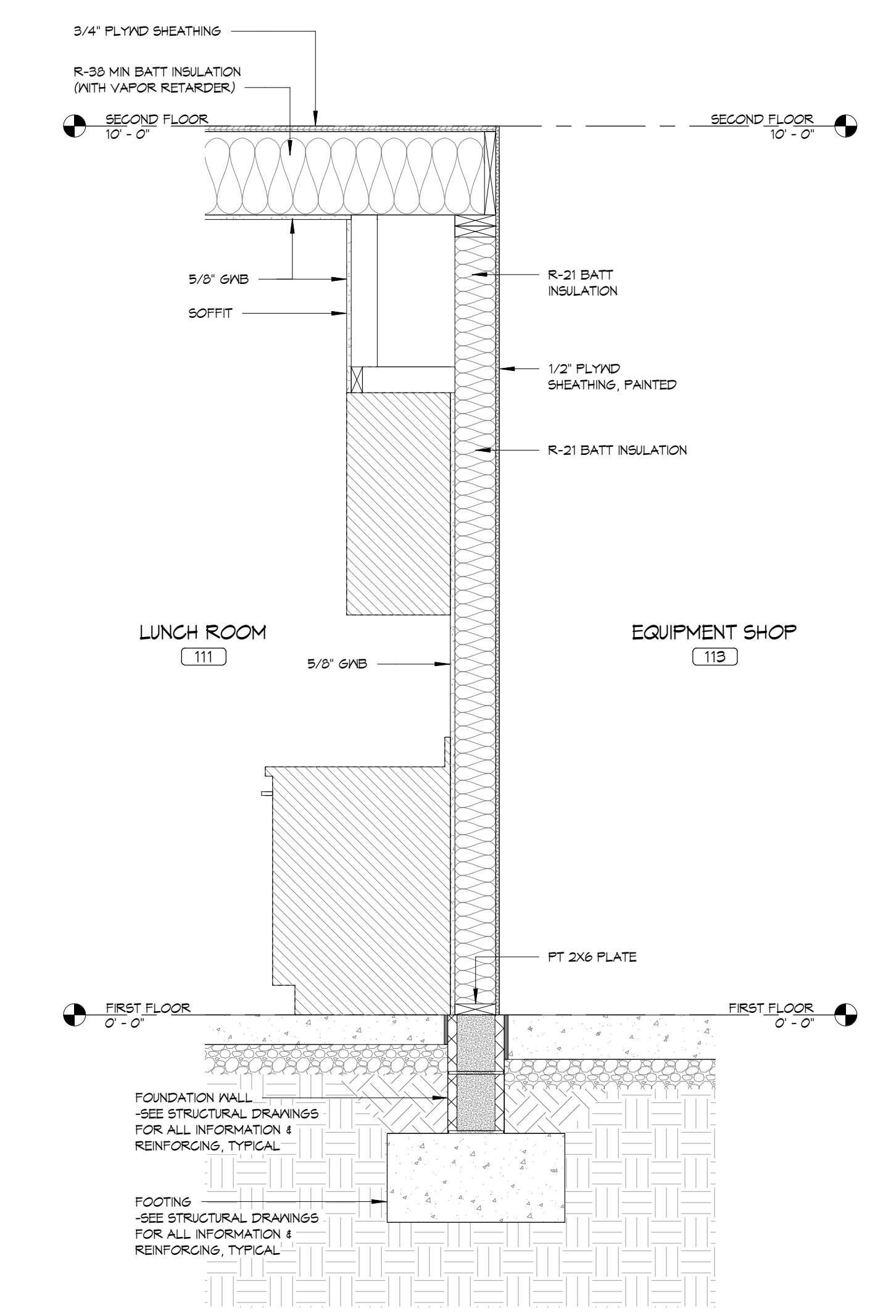




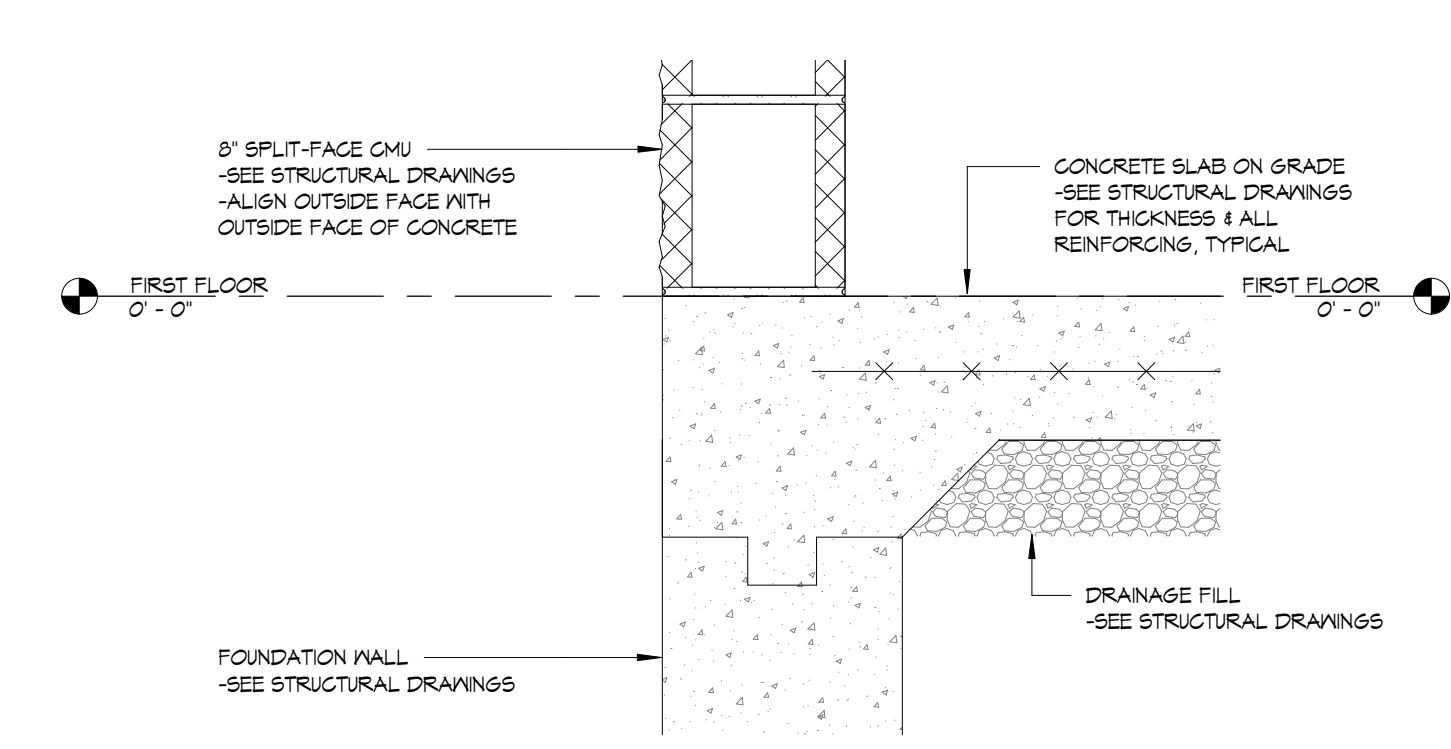




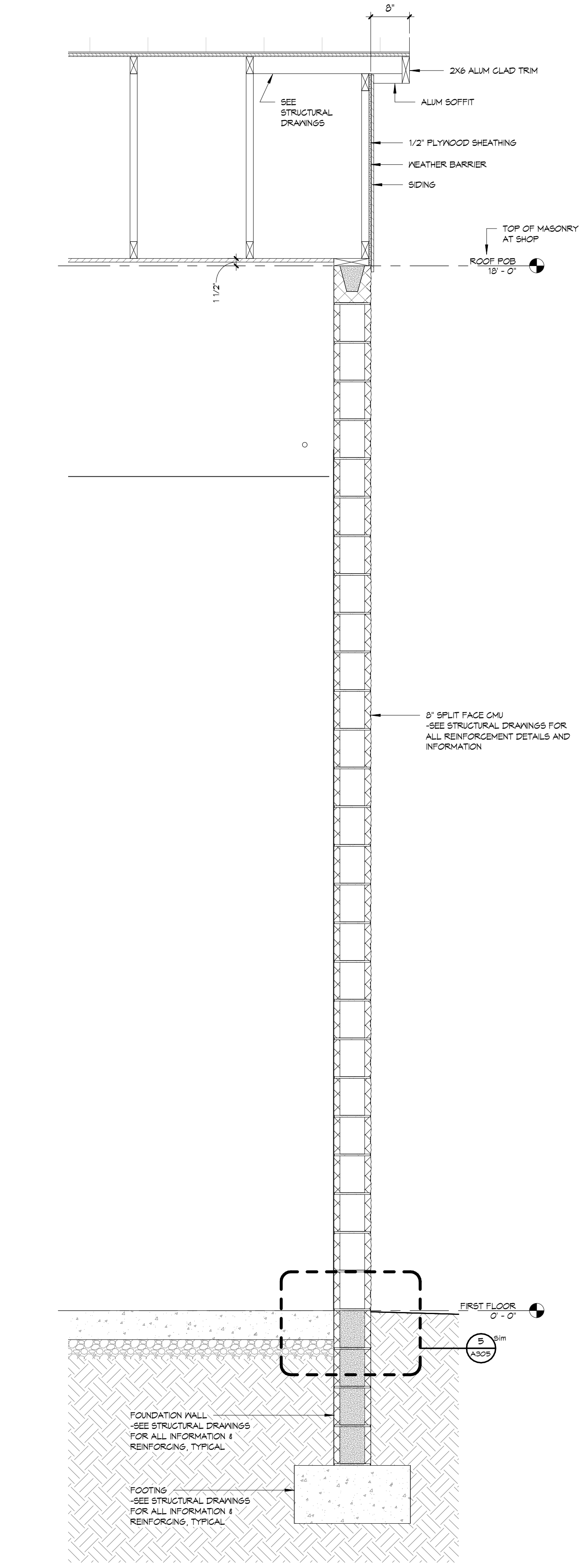
8 PARTIAL WALL SECTION - AT OFFICE TO SHOP TRANSITION
3/4" = 1'-0"



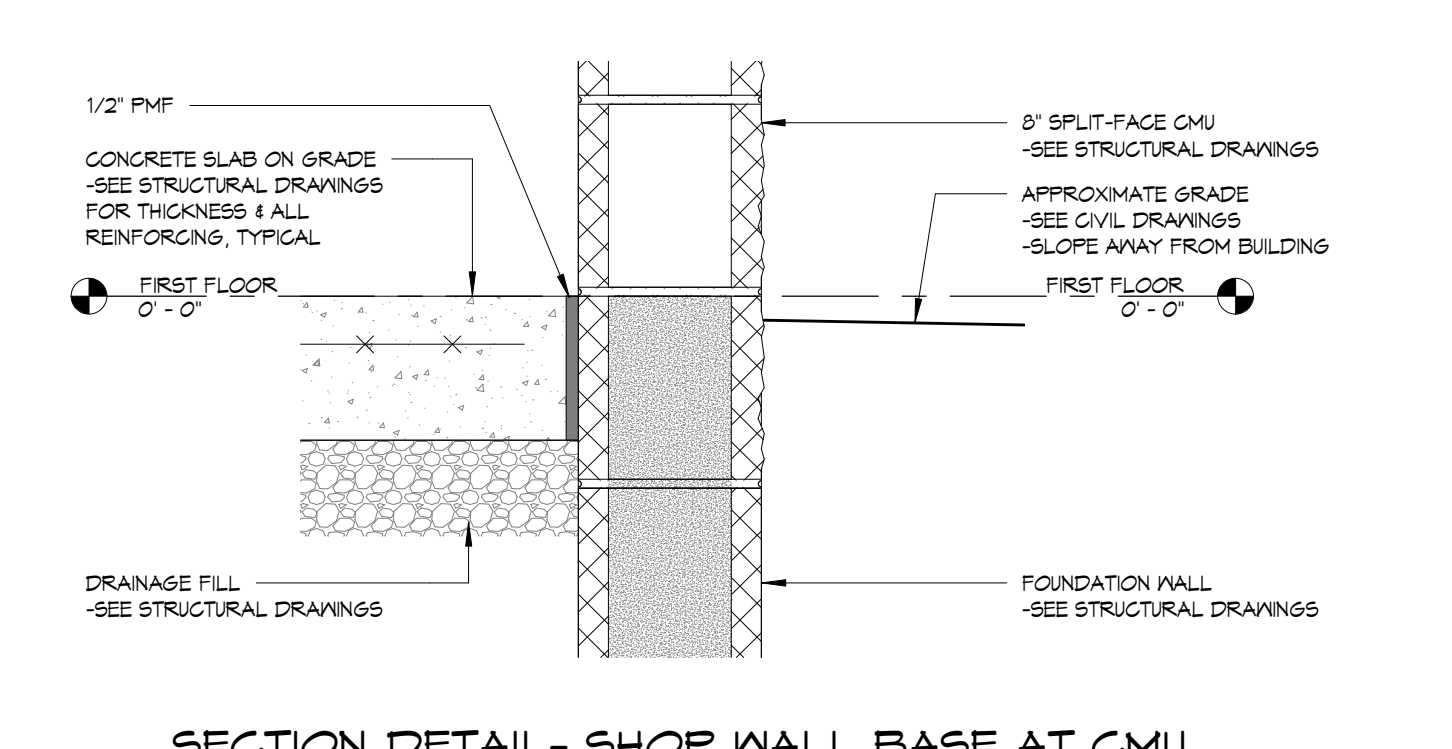
7 WALL SECTION - LUNCH RM & SHOP
3/4" = 1'-0"



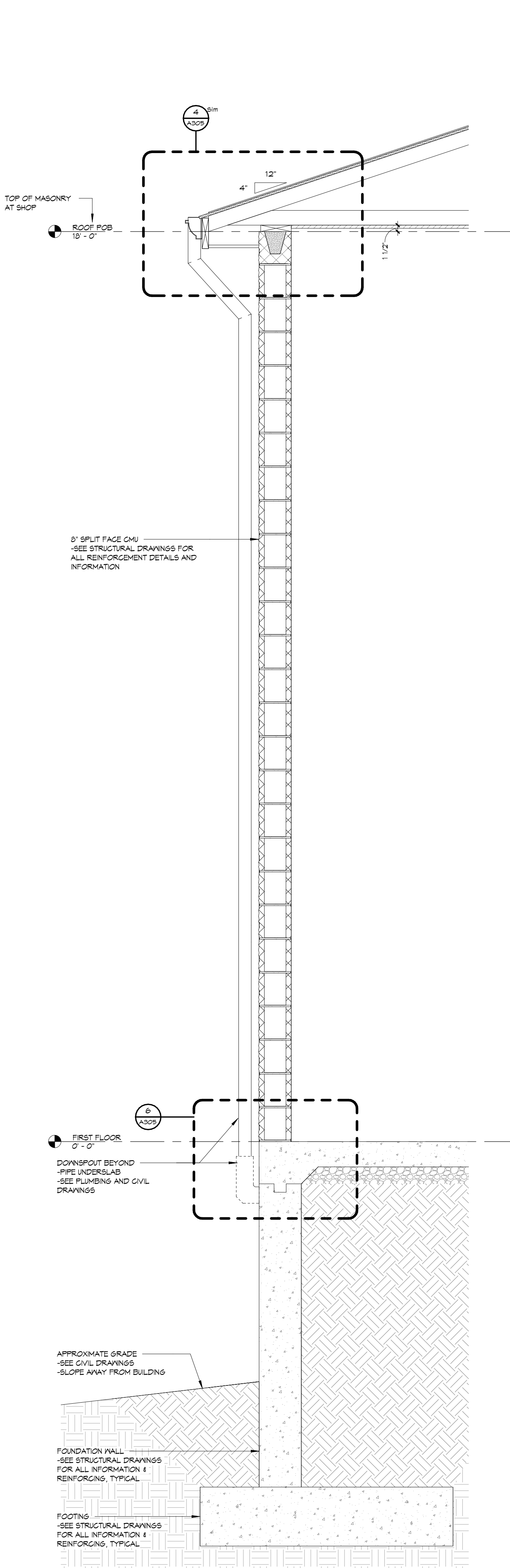
6 SECTION DETAIL - SHOP WALL BASE AT CONCRETE RETAINING FOUNDATION
1 1/2" = 1'-0"



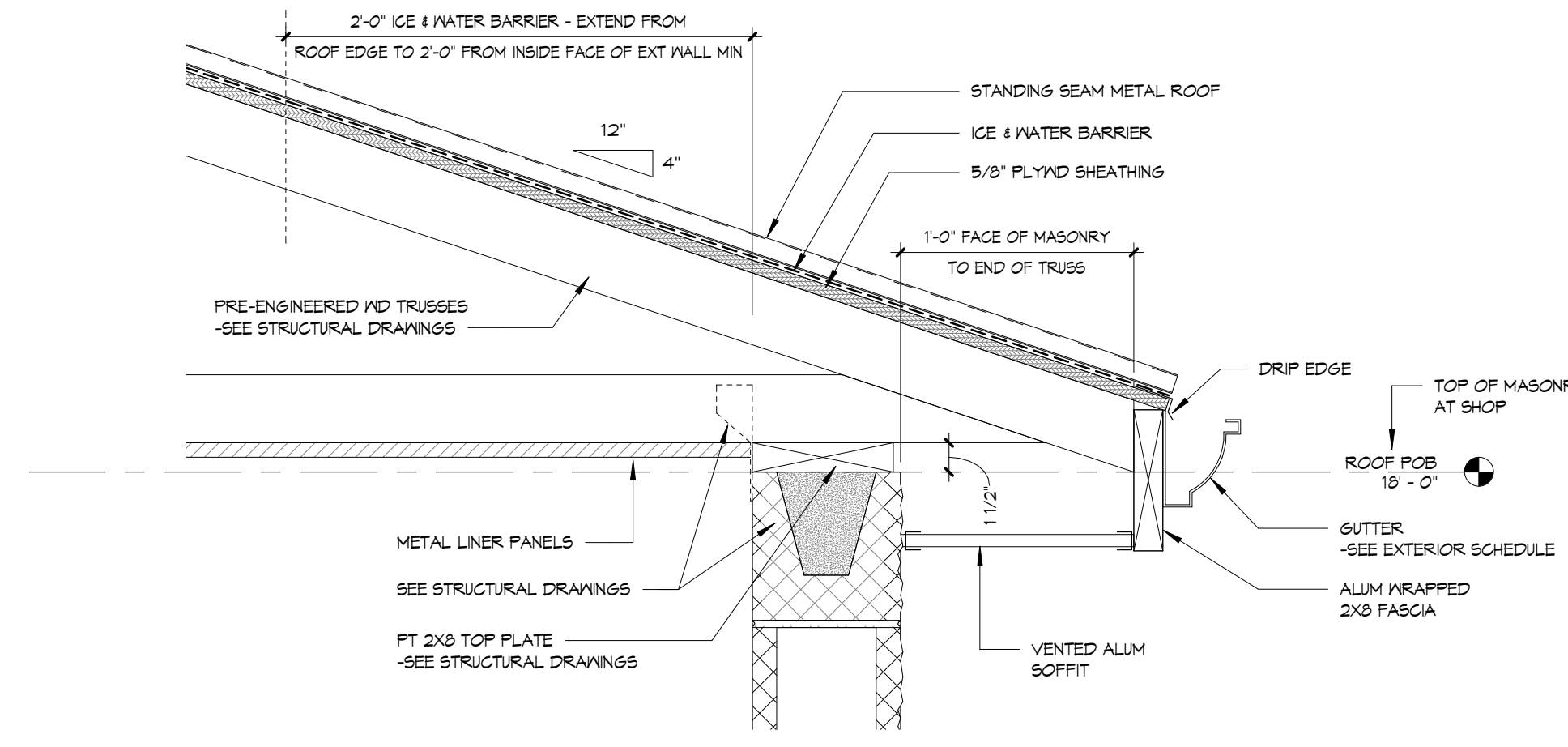
3 WALL SECTION @ SHOP END WALL
3/4" = 1'-0"



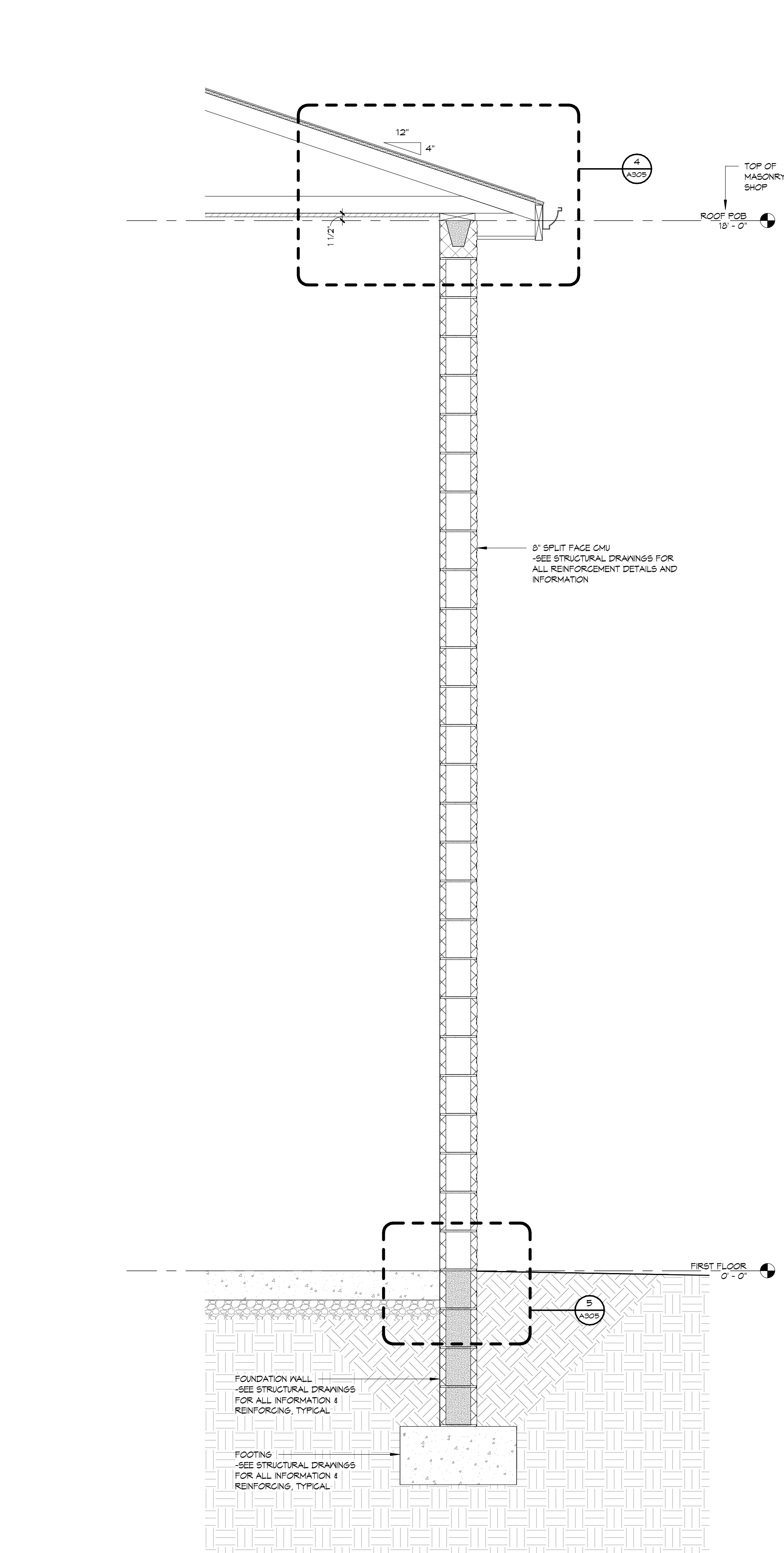
5 SECTION DETAIL - SHOP WALL BASE AT CMU FOUNDATION
1 1/2" = 1'-0"



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



4 SECTION DETAIL - ROOF EAVE AT SHOP
1 1/2" = 1'-0"



1 WALL SECTION - SOUTH EQUIPMENT SHOP WALL
3/4" = 1'-0"

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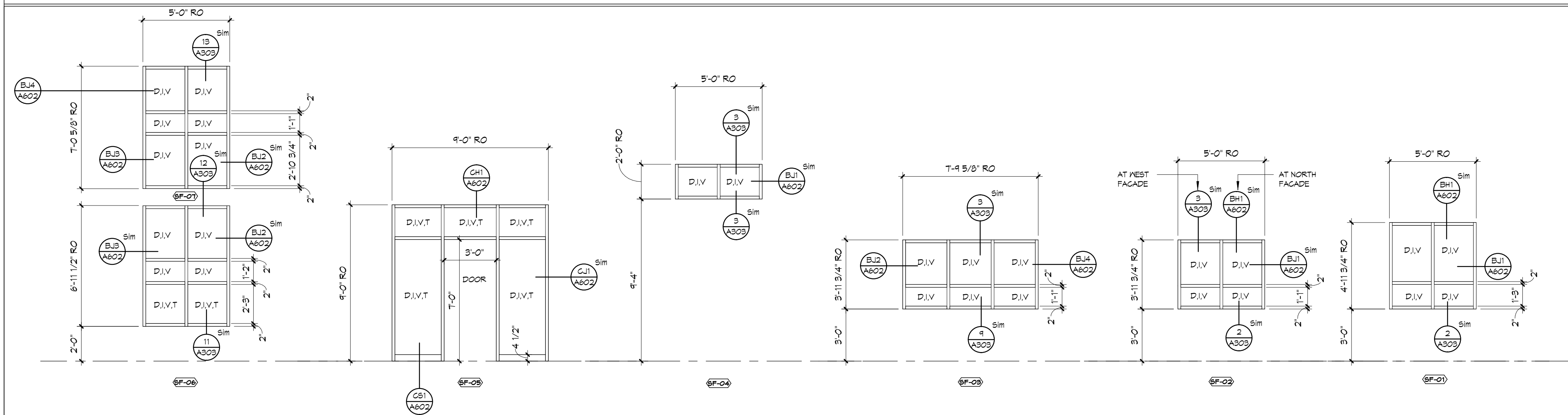
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Sheet Number:
A305

BH JOB NO. 23-015

PERMIT SET

ALUMINUM STOREFRONT FRAME TYPES



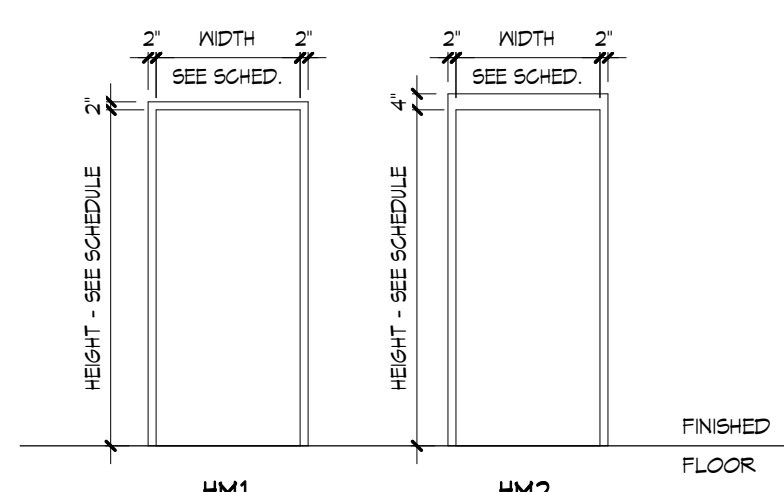
ALUMINUM STOREFRONT NOTES

1. ALL STOREFRONT FRAMES TO BE YKK YES 45 TU (THERMALLY BROKEN) WITH XT FILLER, CENTER SET WITH DARK BRONZE ANODIZED FINISH OR EQUAL.
2. ALL GLAZING TO BE 1" INSULATED SOLARBAN 60 BY VITRO OR EQUAL.
3. TINTED GLAZING TO BE "OPTIGRAY" BY VITRO OR EQUAL.
4. ALL OVERALL DIMENSIONS SHOWN ARE ROUGH OPENING DIMENSIONS UNLESS NOTED OTHERWISE.

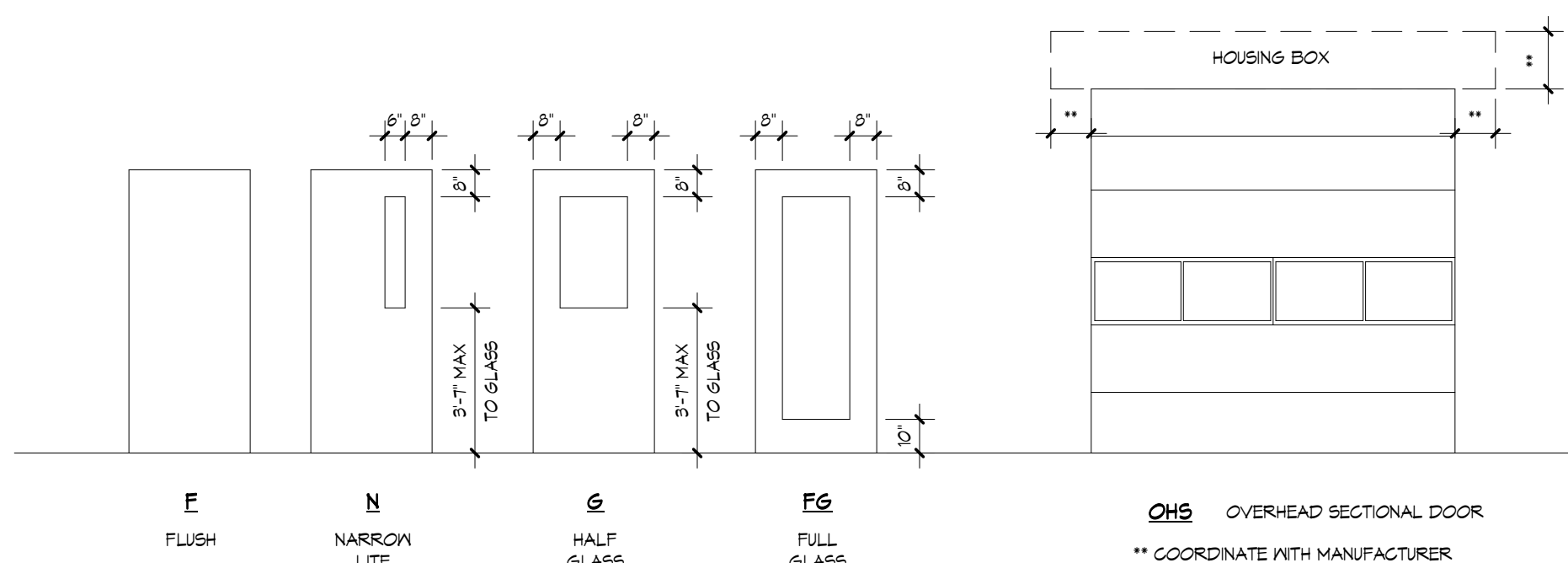
WINDOW GLASS TYPE KEY

D	TINTED
I	INSULATED
T	TEMPERED
V	VISION

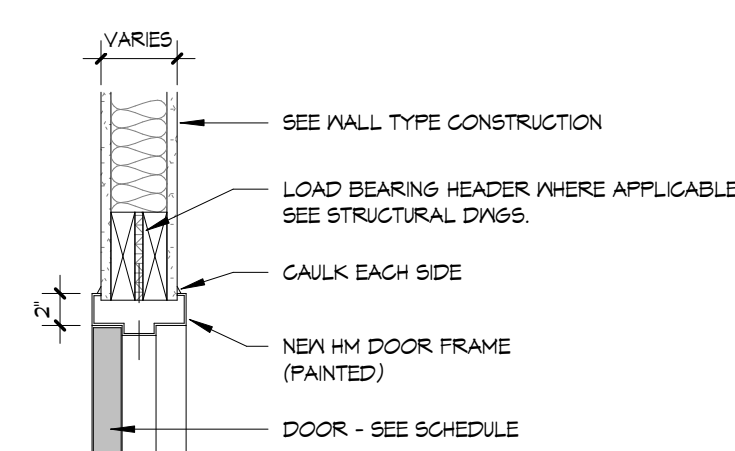
DOOR FRAME TYPES



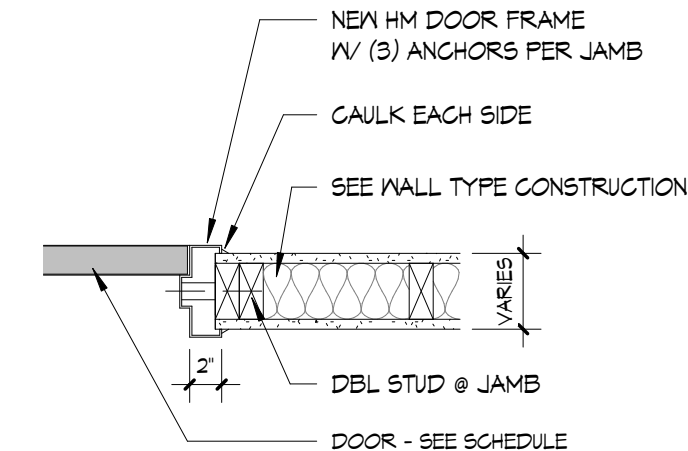
DOOR TYPES



INTERIOR DOOR DETAILS



TYPICAL INTERIOR DOOR HEAD DETAIL



TYPICAL INTERIOR DOOR JAMB DETAIL

DOOR NOTES AND ABBREVIATIONS

GENERAL NOTES - DOORS:

DIMENSIONAL:
 DOORS ARE 1-3/4" THICK UNLESS NOTED OTHERWISE
 DOORS TO HAVE A 3/4" UNDERCUT UNLESS NOTED OTHERWISE
 BOTTOM 10" OF HULLS & DOORS TO BE FINISHED WITH SINGLE PLANE
 BOTTOM EDGE OF VISION LINES TO BE NO HIGHER THAN 43" ABOVE FINISHED FLOOR
 HULLION METAL FRAMES TO HAVE A 2" FACE UNLESS NOTED OTHERWISE

CONSTRUCTION:
 HULLION METAL DOORS TO HAVE HEADS CAPPIED WITH TOP EDGE
 HULLION METAL DOOR FACES TO BE GALVANIZED 16 GA. STRENGTH LEVEL STEEL
 HULLION METAL FRAME N DRYWALL OPENINGS - KNOCK DOWN FRAMES UNLESS NOTED
 HULLION METAL FRAME N MASONRY OPENINGS - CORNERS TO BE HELDED UNLESS NOTED
 HULLION METAL FRAME N DRYWALL OPENINGS - CORNERS TO BE HELDED UNLESS NOTED
 HULLION METAL FRAMES TO HAVE THREE ANCHORS PER JAMB - ANCHORS TO MEET 1/2"
 ALL EXTERIOR METAL DOORS AND FRAMES TO BE GALVANIZED UNLESS NOTED OTHERWISE
 HULLION METAL FRAMES TO BE GALVANIZED UNLESS NOTED AS:
 SINGLE RABBIT, DOUBLE EGRESS, DOUBLE ACTION / CASED

INSTALLATION:
DOOR SWINGS TO MATCH INDICATION ON PLANS.
PROVIDE A MINIMUM OF 4" FROM PERPENDICULAR PARTITION TO FACE OF BACKBEND.
PROVIDE A MINIMUM OF 18" FROM PERPENDICULAR PARTITION TO DOOR EDGE, PULL SIDE.
PROVIDE A MINIMUM OF 12" CLEAR TO LATCH FROM PERPENDICULAR PARTITION TO DOOR EDGE, PUSH SIDE.
PLAN DIMENSIONS ARE LOCATING THE OUTSIDE OF THE FRAME.

HARDWARE:
ALL EXTERIOR DOORS TO BE WEATHER-STRIPPED.
ALL RATED DOORS TO HAVE SMOKE SEALS.
DOOR HANDLES SHALL BE THE LEVER TYPE AND MEET ANSI 404.2.6.
HARDWARE LOCATIONS AND REINFORCEMENT TO BE PER SDI.

ABBREVIATIONS LEGEND:

DOOR MATERIAL:	
IM	HOLLOW METAL
AL	INSULATED METAL
ST	ALUMINUM
EX	STEEL
YO	EXISTING
YO	STAIN-GRADE WOOD
EX	EXISTING
YO	WOOD GRAIN METAL
FRP	PANT-GRADE WOOD
SS	FIBERGLASS
SS	PLASTIC LAMINATE
FB	STAINLESS STEEL
FB	FABRIC
FRAME MATERIAL:	
IM	HOLLOW METAL
AL	INSULATED METAL
ST	ALUMINUM
EX	STEEL
EX	EXISTING
YO	STAIN-GRADE WOOD
YO	EXISTING
FRP	PANT-GRADE WOOD
LUM	LUMBER

RATINGS:
20 20 MINUTES

45	45 MINUTES
60	60 MINUTES
90	90 MINUTES
<u>GLASS:</u>	
F5	FIRE RATED
I5	INSULATED 5
S5	SINGLE SAF
I4	INSULATED 4
S4	SINGLE VISI
SF	INSULATED 5
S	SPECIAL GL
<u>FINISHES:</u>	
SF1	SITE APPLIE
SF2	SITE APPLIE
SF3	SITE APPLIE
FF1	FACTORY S
FF2	FACTORY P
FF3	GALVANIZED
FF4	ANODIZED C
FF5	FRP

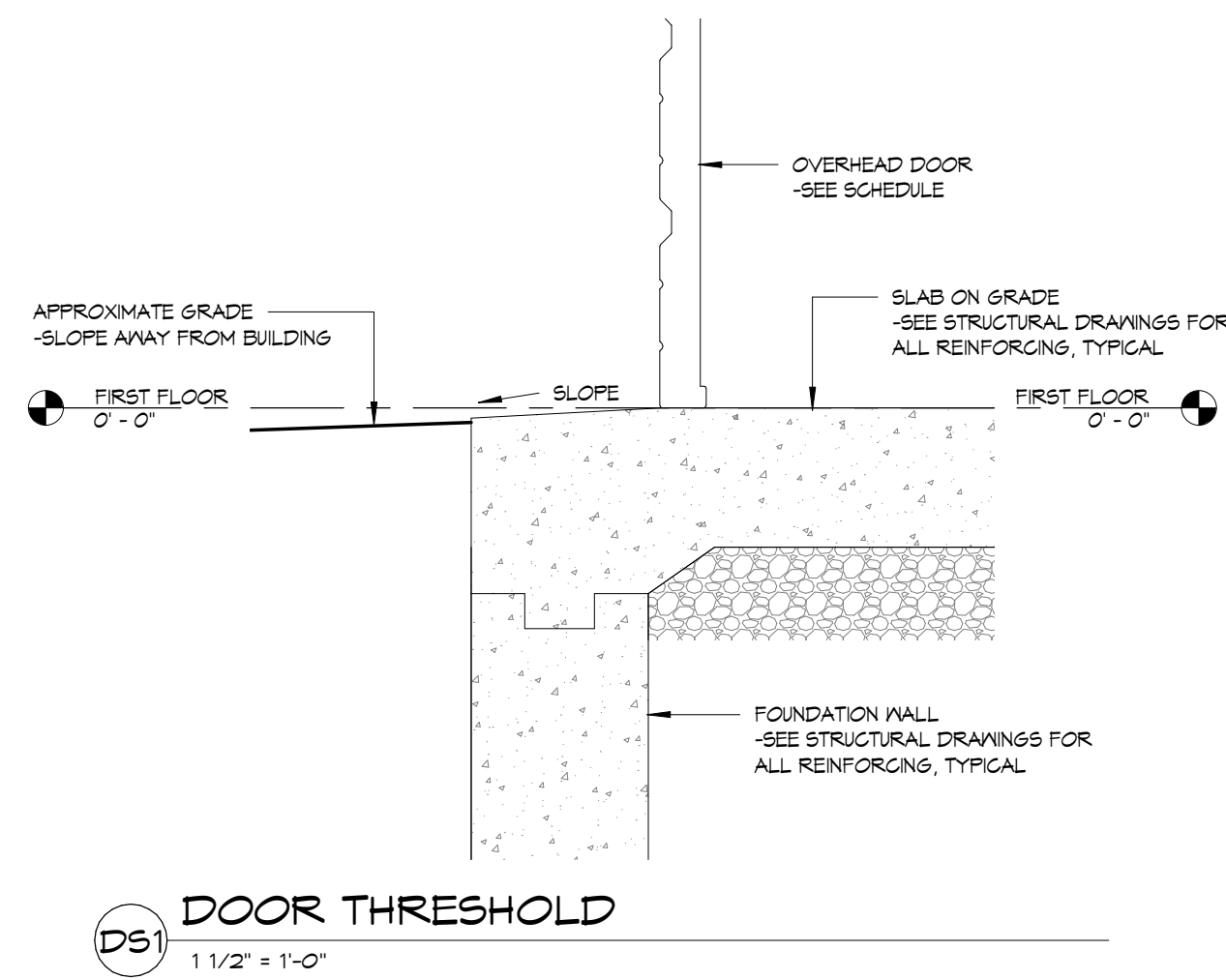
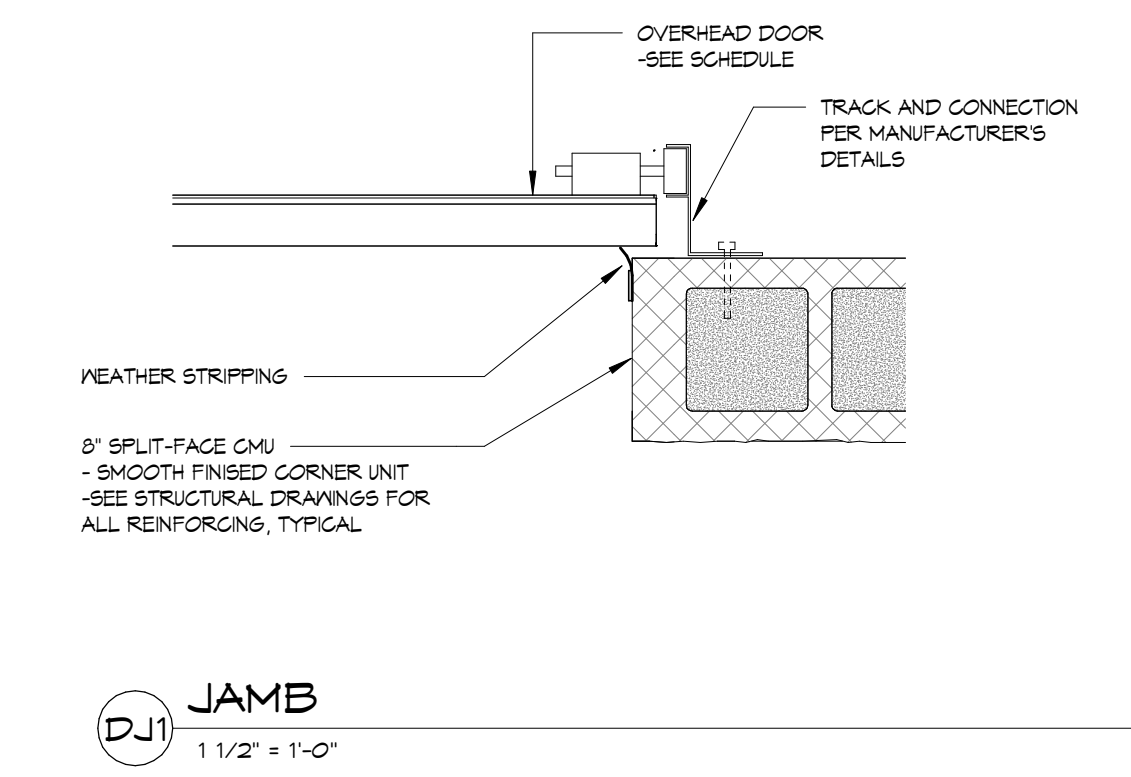
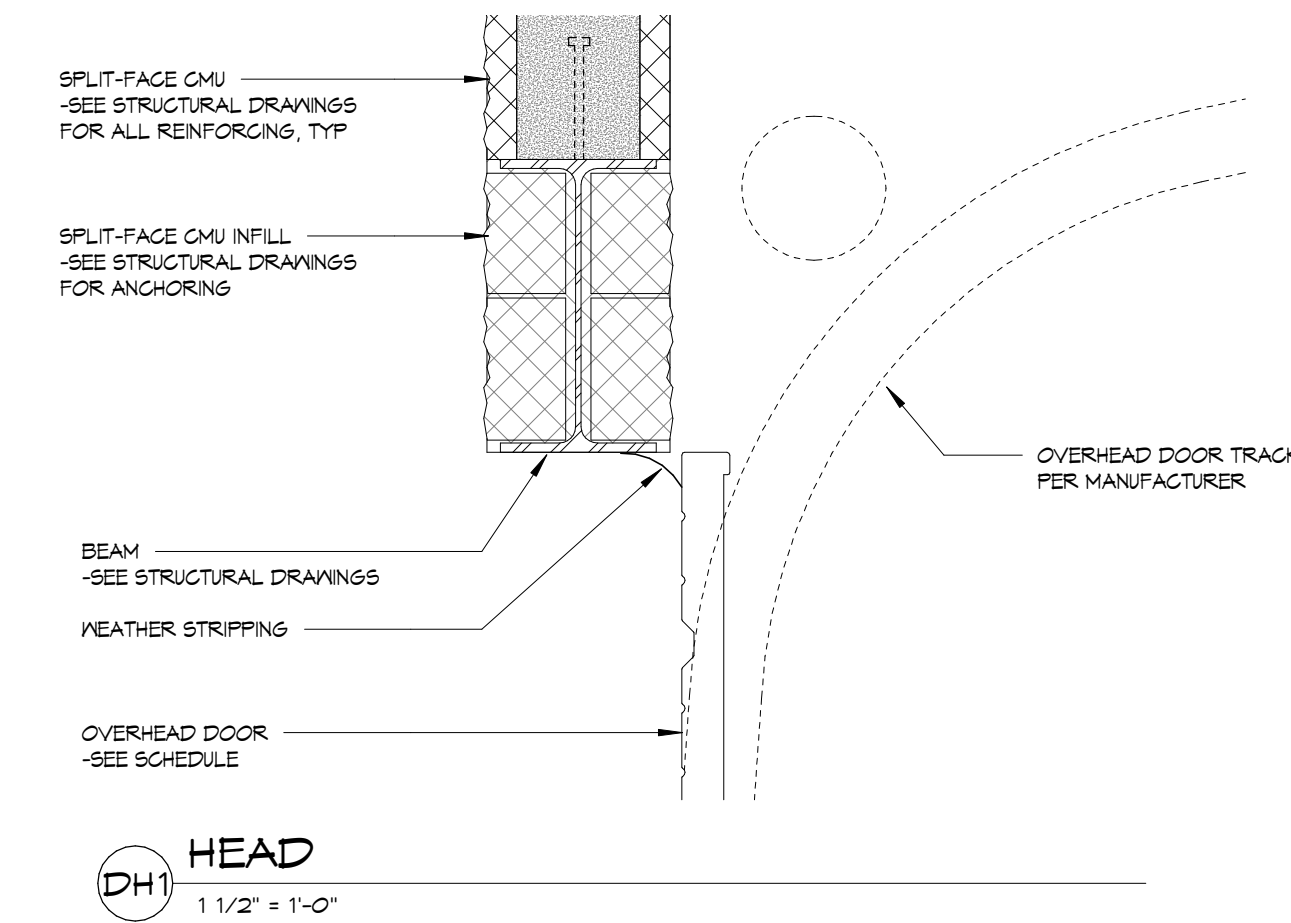
GLASS:	
F5	FIRE RATED SAFETY GLAZING
I5	INSULATED SAFETY GLAZING
S5	SINGLE SAFETY GLAZING
I4	INSULATED VISION GLAZING
S4	SINGLE VISION GLAZING
SP	INSULATED SPANDREL PANEL
S	SPECIAL GLAZING

FINISHES:

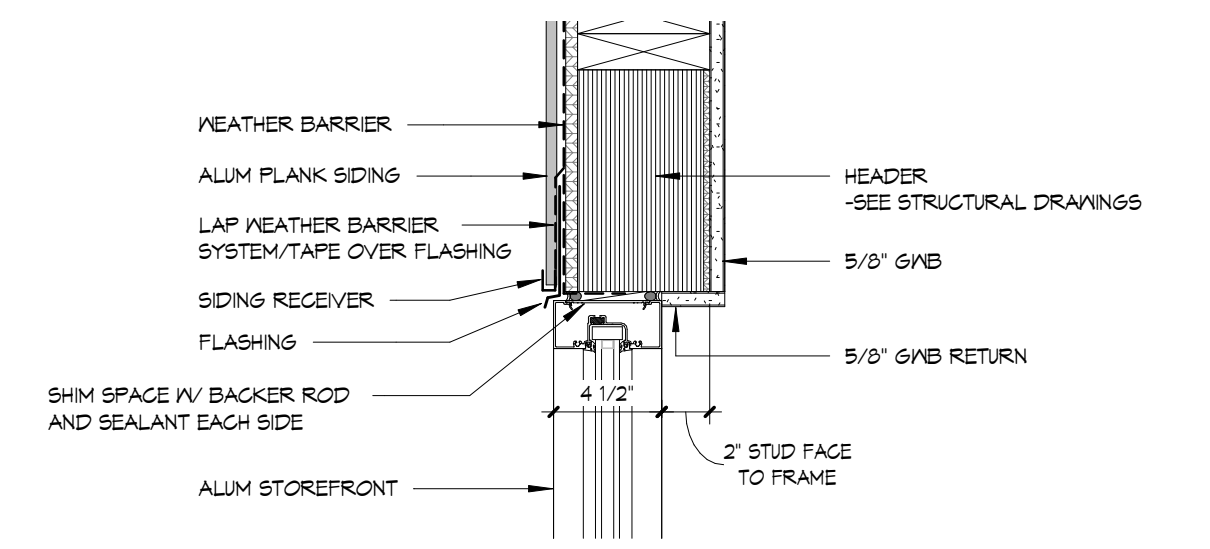
SP1	SITE APPLIED PAINT OVER FACTORY PRIME
SP2	SITE APPLIED PAINT OVER FACTORY GALVANIZED
SP3	SITE APPLIED STAIN
FF1	FACTORY STAIN
FF2	FACTORY PAINT
FF3	GALVANIZED
FF4	ANODIZED COATING
FF5	FRP

TYPICAL FRAME DEPTHS:

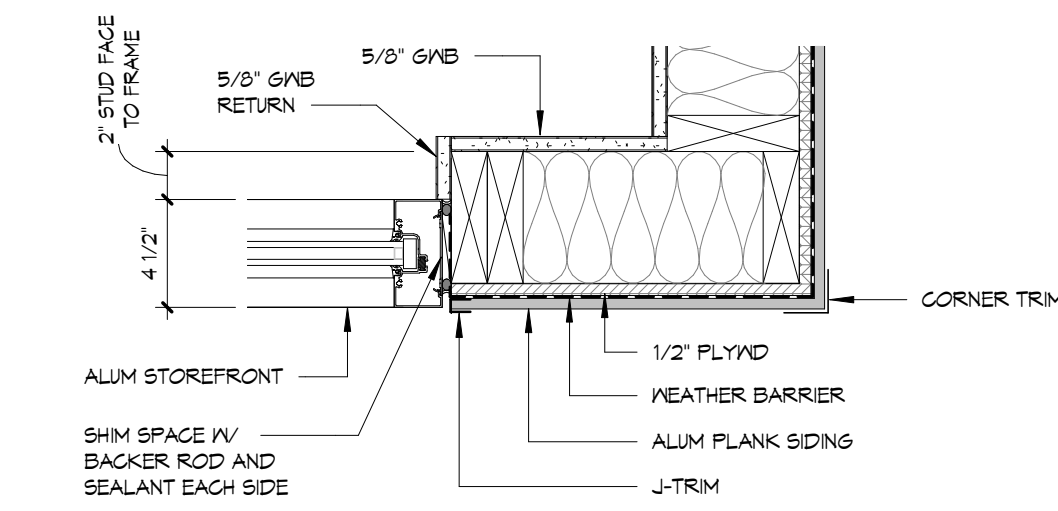
HOLLOW METAL FRAMES ARE TO BE 5-3/4" DEEP UNLESS NOTED OTHERWISE.
ALUMINUM FRAMES ARE TO BE 4-1/2" DEEP UNLESS NOTED OTHERWISE.
WOOD FRAMES ARE TO BE 5" DEEP UNLESS NOTED OTHERWISE.
STEEL FRAMES ARE TO BE C12 X 20.7 CHANNELS UNLESS NOTED OTHERWISE.



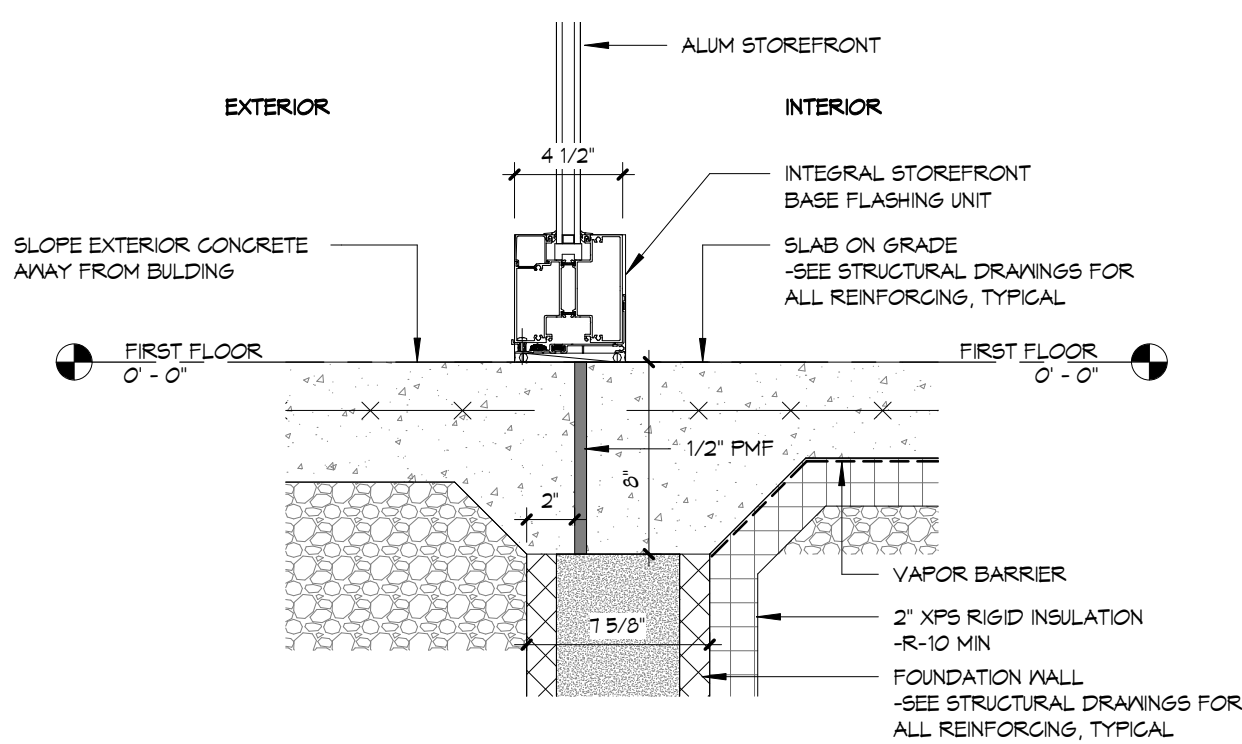
(D) EXTERIOR OVERHEAD DOOR DETAILS



CH1 HEAD
1 1/2" = 1'-0"

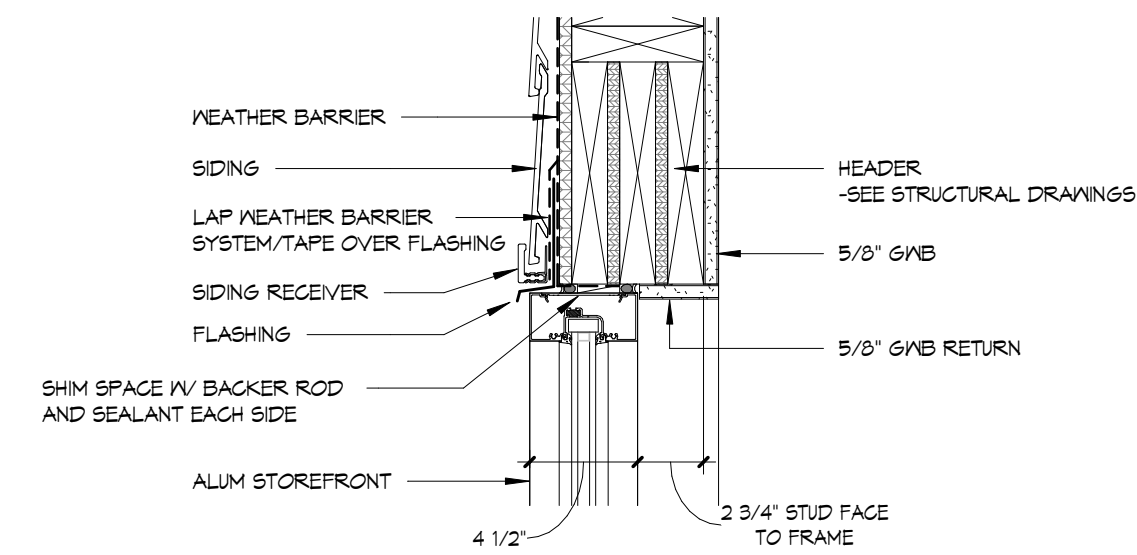


CJ1 JAMB
1 1/2" = 1'-0"

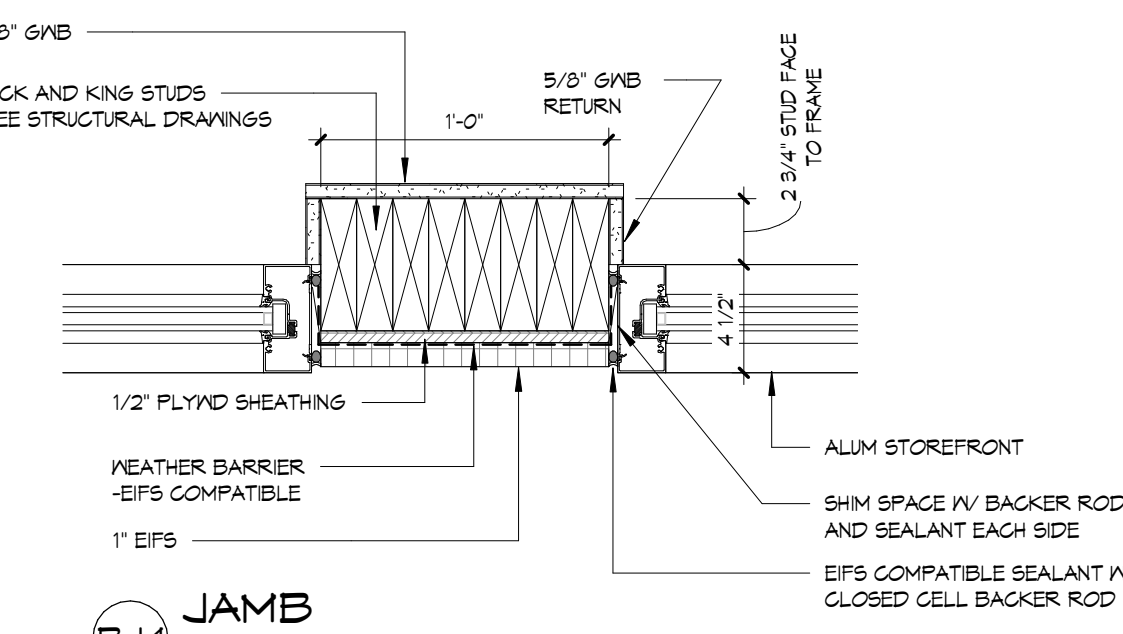


CS1 SILL
1 1/2" = 1'-0"

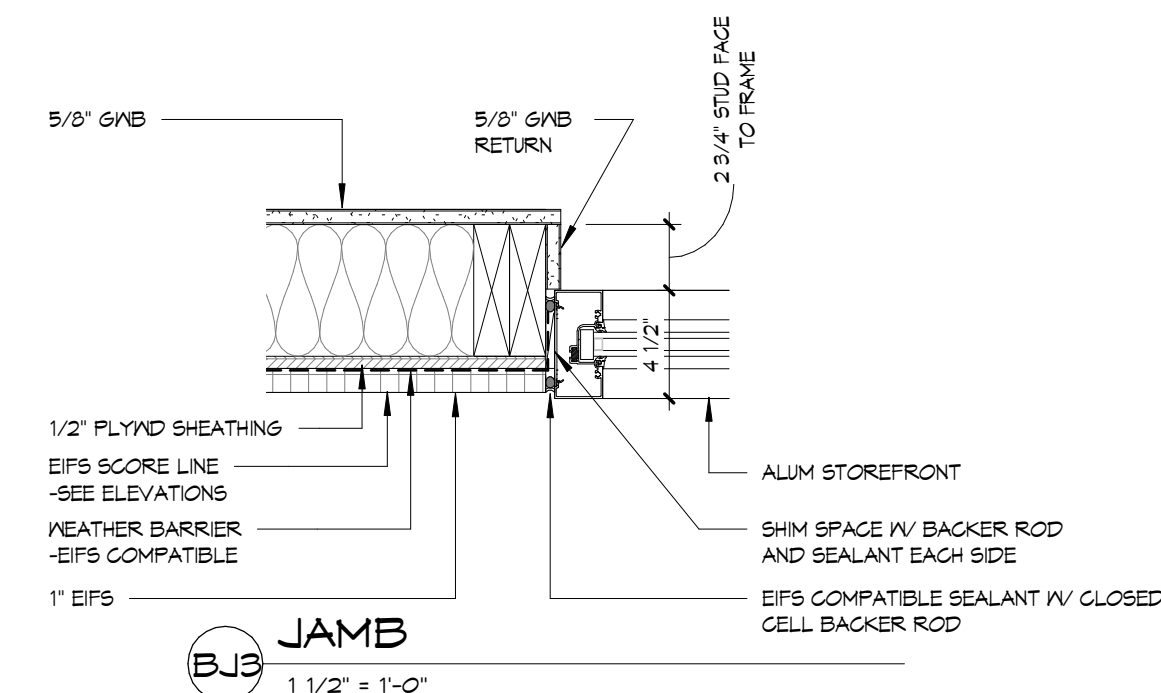
(C) EXTERIOR STOREFRONT ENTRY DETAILS



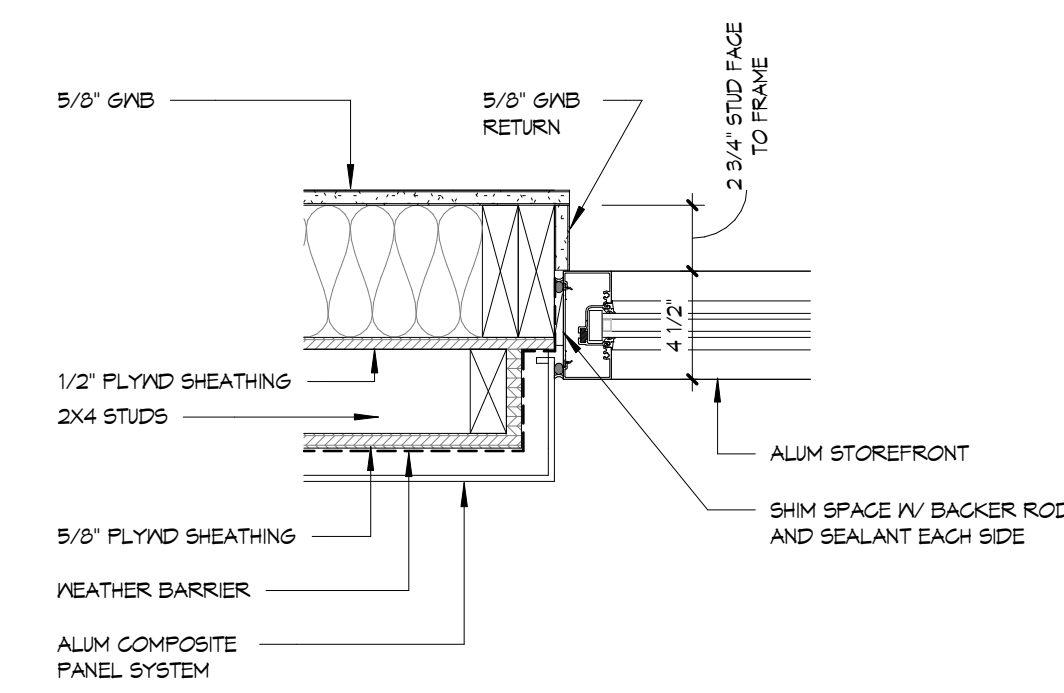
BH1 HEAD
1 1/2" = 1'-0"



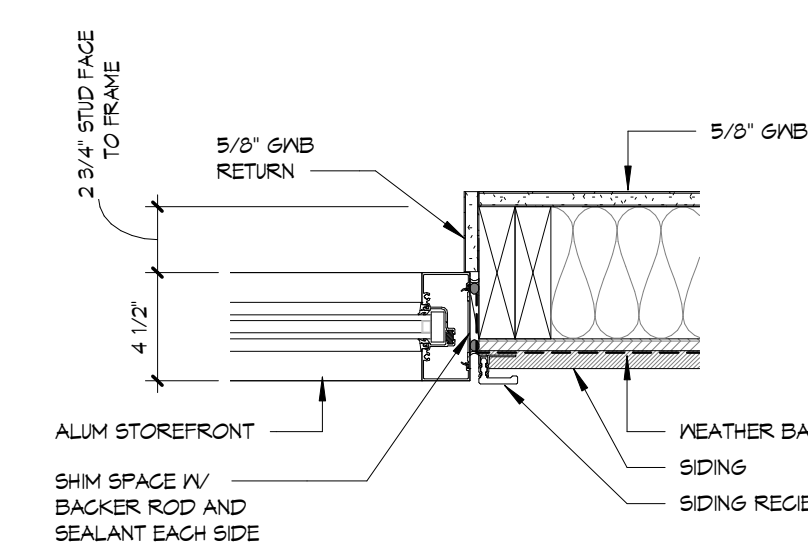
BJ4 JAMB
1 1/2" = 1'-0"



BJ3 JAMB
1 1/2" = 1'-0"

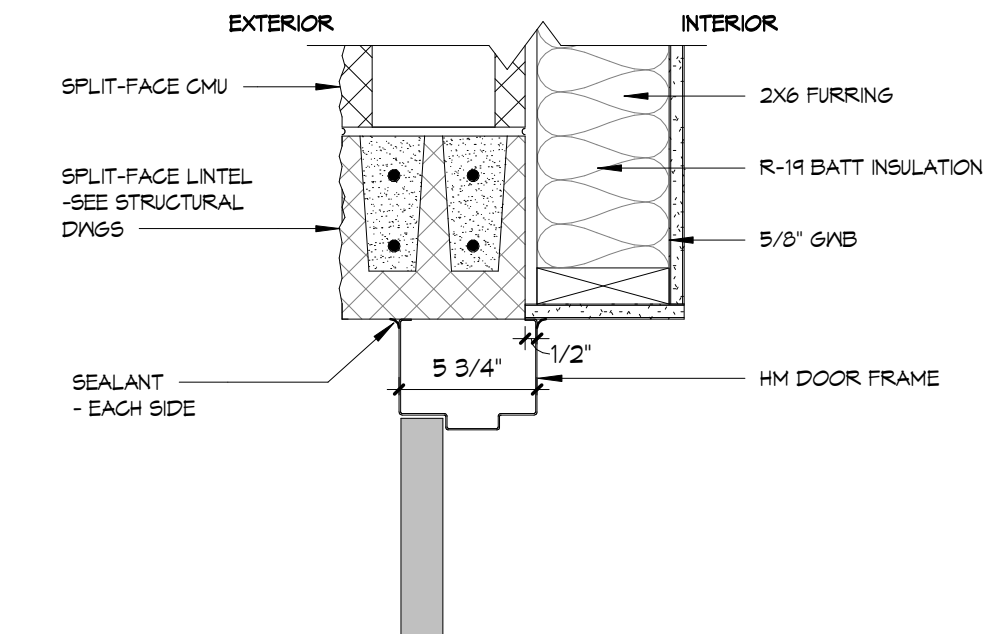


BJ2 JAMB
1 1/2" = 1'-0"

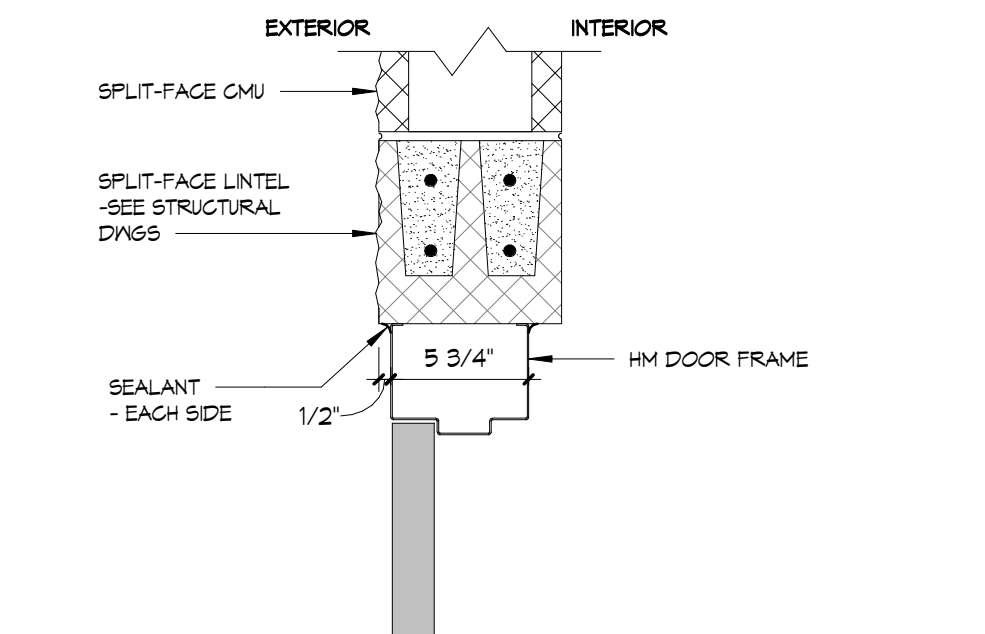


BJ1 JAMB
1 1/2" = 1'-0"

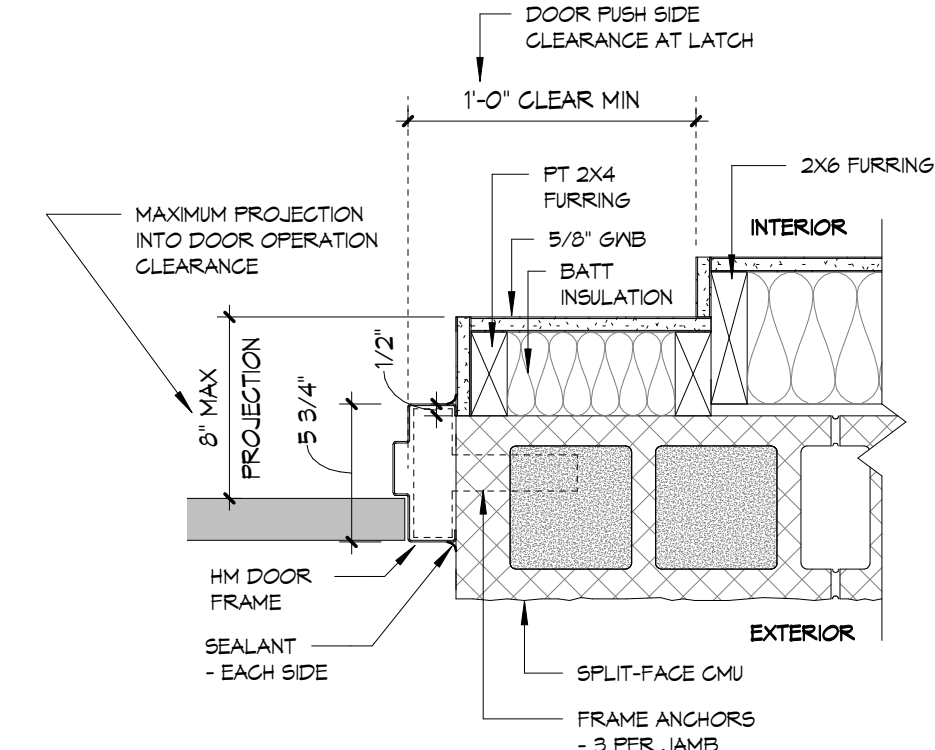
(B) EXTERIOR STOREFRONT WINDOW DETAILS



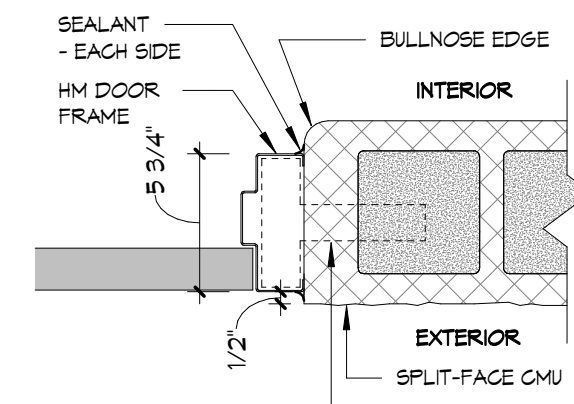
AH2 DOOR HEAD
1 1/2" = 1'-0"



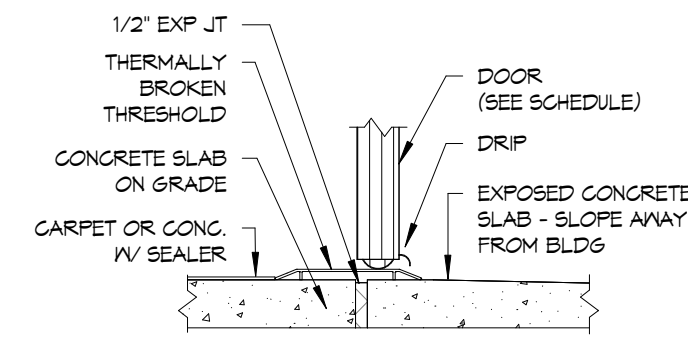
AH1 DOOR HEAD
1 1/2" = 1'-0"



AJ2 DOOR JAMB
1 1/2" = 1'-0"



AJ1 DOOR JAMB
1 1/2" = 1'-0"



AS1 DOOR THRESHOLD
1 1/2" = 1'-0"

(A) EXTERIOR HOLLOW METAL DOOR DETAILS

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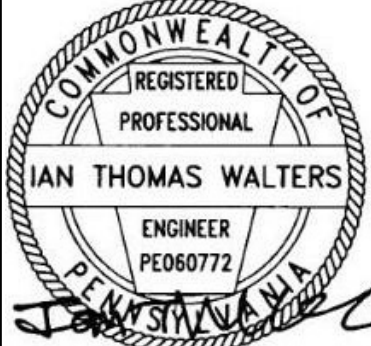
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EXTERIOR DOOR AND WINDOW DETAILS

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Job No. 23-015



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STRUCTURAL
NOTES

Sheet Number
S101

STRUCTURAL NOTES:

GENERAL

- STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FOR INCONSISTENCIES STANDARD PRACTICE, THE STRUCTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, MECH. AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING OR NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPING SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 75% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- THE CONTRACTORS CONSTRUCTION SEQUENCES SHALL ALLOW FOR THE EFFECTS OF THERMAL MOVEMENTS DURING THE CONSTRUCTION PERIOD, PRIOR TO THE BUILDING BEING ENCLOSED AND TEMPERATURE CONTROLLED. NEGATIVE EFFECTS OF SUCH THERMAL MOVEMENTS, SUCH AS MATERIAL CRACKING, FROST HEAVE, ETC., SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS, LOCATIONS, OR SIZES OF ANY ELEMENT.

STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS ARE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) INCLUDING LOCAL CODES, WHERE APPLICABLE, AND THE FOLLOWING STANDARDS REFERENCED IN IBC 2018:
ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ACI 530 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
ACI 530.1 - SPECIFICATIONS FOR MASONRY STRUCTURES
AFPA NDS - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
ASCE 7 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 - IBC BUILDING OCCUPANCY CATEGORY: II
 - LIVE LOADS ARE AS FOLLOWS. LIVE LOAD REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE, UNO.
ROOF LIVE LOAD 30 PSF UNREDUCIBLE
OFFICES 60 PSF
STORAGE 120 PSF MUST BE POSTED
FIRST FLOOR CORRIDORS 100 PSF
LOBBIES 100 PSF
MECHANICAL ROOMS 100 PSF
STAIRS 100 PSF
 - SNOW LOADING IS BASED ON THE FOLLOWING. DRIFTING AND SLIDING SNOW LOADS HAVE BEEN CONSIDERED WHERE APPROPRIATE:
RAIN ON SNOW SURCHARGE NA (Pg > 20 PSF)
GROUND SNOW LOAD, Pg 30 PSF
FLAT ROOF SNOW LOAD 21 PSF
SNOW EXPOSURE FACTOR, Ce 1.0
SNOW THERMAL FACTOR, Ct 1.0
SNOW LOAD IMPORTANCE FACTOR, I 1.0
DESIGN SNOW LOAD 30 PSF
 - WIND LOADING IS BASED ON THE FOLLOWING:
BASIC WIND SPEED (3 SEC GUST) 115 MPH
EXPOSURE CATEGORY C
BUILDING CATEGORY: SIMPLE DIAPHRAGM, LOW-RISE, ENCLOSED, RIGID
INTERNAL PRESSURE COEFF. ±0.18
- | C & c (ULTIMATE) | 10 SF | 20 SF | 50 SF | 100 SF |
|------------------------|-------------|-------------|-------------|-------------|
| WALLS | 27.1, -28.9 | 26.2, -27.9 | 25.0, -26.7 | 24.0, -25.8 |
| WALL CORNERS | 27.1, -34.1 | 26.2, -32.9 | 25.0, -29.8 | 24.0, -27.9 |
| ROOF ZONE 1 (27 TO 45) | 19.0, -35.9 | 17.8, -35.9 | 16.1, -31.7 | 16.0, -34.0 |
| ROOF ZONE 2 (27 TO 45) | 19.0, -53.4 | 17.8, -47.6 | 16.1, -39.9 | 16.0, -34.0 |
| ROOF ZONE 3 (27 TO 45) | 19.0, -61.2 | 17.8, -52.6 | 16.1, -41.1 | 16.0, -41.1 |
- SEISMIC LOADING IS BASED ON THE FOLLOWING:
SEISMIC IMPORTANCE FACTOR 1.0
SEISMIC SITE CLASS D
SPECTRAL RESPONSE COEFF. (Sa) 0.183
SPECTRAL RESPONSE COEFF. (S1) 0.0473
SPECTRAL RESPONSE COEFF. (S2) 0.1953
SPECTRAL RESPONSE COEFF. (S3) 0.0769
LONG PERIOD TRANSITION (Tj) 6
SEISMIC DESIGN CATEGORY B
ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
BASIC STRUCTURAL SYSTEM BEARING WALL & BUILDING FRAME
SEISMIC FORCE RESISTING SYSTEM LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE & INTERMEDIATE REINFORCED MASONRY SHEARWALLS.
 - LATERAL EARTH PRESSURES ON RETAINING AND BASEMENT WALLS ARE BASED ON THE FOLLOWING:
EQUIVALENT AT-REST FLUID PRESSURE (BASEMENT) 60 PSF
EQUIVALENT ACTIVE FLUID PRESSURE (CANTILEVERED) 45 PSF
EQUIVALENT PASSIVE FLUID PRESSURE 300 PSF
COEFFICIENT OF FRICTION 0.40
COHESION NA
 - DESIGN REACTIONS AND SUPPORT DETAILS FOR ELEVATOR, ARCHITECTURAL MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ARE BASED UPON AVAILABLE MANUFACTURER INFORMATION. SUPPORT CONDITIONS MAY NEED TO BE REVISED BASED UPON ACTUAL SUPPLIED EQUIPMENT AND SUPPORT DETAILS
 - ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS:
TOP CHORD DEAD = 15 PSF LIVE = 30 PSF
BOTTOM CHORD DEAD = 10 PSF LIVE = 10 PSF (TYP)
SNOW = PER CODE LIVE = 40 PSF (ATTIC & CATWALK)
WIND = PER CODE
GABLE END TRUSSES SHALL BE DESIGNED FOR WIND LOAD PERPENDICULAR TO THE PLANE OF THE TRUSS. FOR GABLE END TRUSSES BACKING UP MASONRY VENEER, PROVIDE VERTICAL WEB MEMBERS AT 16" O/C, AND LIMIT OUT-OF-PLANE DEFLECTIONS TO L/600. DESIGN, DETAIL, AND PROVIDE ALL TEMPORARY AND PERMANENT BRACING FOR THE TRUSS SYSTEM.

IBC SPECIAL INSPECTIONS

- STRUCTURAL TESTS AND SPECIAL INSPECTIONS ARE REQUIRED BY THE INTERNATIONAL BUILDING CODE AND SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH REQUIREMENTS OF IBC CHAPTER 17, "STRUCTURAL TESTS AND SPECIAL INSPECTIONS."
- AS REQUIRED BY IBC, THE STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT, APPROVED AGENCY, EMPLOYED BY THE OWNER.
- COPIES OF ALL REPORTS DOCUMENTING THE SPECIAL INSPECTIONS AND TESTS PERFORMED BY THE INSPECTING AGENCY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (BAKER, INGRAM & ASSOCIATES).
- SPECIAL INSPECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL CONFORM TO IBC SECTION 1705.3 AND TABLE 1705.3 "REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION."
MASONRY CONSTRUCTION: SPECIAL INSPECTIONS AND EVALUATION SHALL CONFORM TO IBC SECTION 1705.4.
WOOD CONSTRUCTION: SPECIAL INSPECTIONS AND EVALUATION SHALL CONFORM TO IBC SECTION 1705.5.
SOILS: SPECIAL INSPECTIONS AND EVALUATION SHALL CONFORM TO IBC SECTION 1705.6 AND TABLE 1705.6 "REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOIL".

TYPICAL DETAILS

- TYPICAL DETAILS APPLY AT ALL APPROPRIATE LOCATIONS.
- TYPICAL DETAILS ARE GENERALLY NOT OUT ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TYPICAL DETAIL APPLICATIONS.

SUBMITTALS

- THE APPLICABLE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR APPROVAL:
CONCRETE MIX DESIGNS FOR EACH STRENGTH INDICATED
CONCRETE REINFORCING SHOP DRAWINGS, INCLUDING ELEVATIONS OF ALL WALLS
STRUCTURAL STEEL SHOP DRAWINGS
MASONRY REINFORCING SHOP DRAWINGS, INCLUDING ELEVATIONS OF ALL WALLS
MASONRY GROUT AND MORTAR MIX DESIGNS
WOOD TRUSS SHOP DRAWINGS W/ P.E. SEALED CALCULATIONS
PRODUCT DATA & MILL TEST FOR EACH APPLICABLE PRODUCT
STEEL STAIR FRAMING SHOP DRAWINGS & CALC'S W/ P.E. SEAL

FOUNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED BASED ON A PRESUMPTIVE BEARING CAPACITY OF 2 KSF. PRESUMPTIVE BEARING CAPACITY SHALL BE VERIFIED PRIOR TO PLACING FOUNDATIONS.
- SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL, HAVING A MINIMUM SAFE BEARING CAPACITY OF 2 KSF.
- THE BOTTOMS OF EXTERIOR FOOTINGS SHALL BE 36" MINIMUM BELOW FINISH GRADE.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
- ADJACENT COLUMN FOOTINGS THAT ADJUT SHALL BE SEPARATED BY A PAPER JOINT.
- FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
SPREAD FOOTINGS 4000 PSI
WALLS & PIERS 4000 PSI
SLAB-ON-GRADE (INTERIOR) 3500 PSI
SLAB-ON-GRADE (EXTERIOR) 5000 PSI (0.40 WIC MAX.)
- PROVIDE AIR-ENTRAINMENT IN ALL CONCRETE EXPOSED TO FREEZE-THAW CONDITIONS DURING THE CONSTRUCTION PERIOD AND/OR IN THE COMPLETED STRUCTURE.
- VERTICAL CRACK CONTROL/CONSTRUCTION JOINTS IN CONCRETE WALL SHALL BE PROVIDED AT 25 FT. O/C MAX.

FOUNDATION SUBGRADE PREPARATION REQUIREMENTS

- A GEOTECHNICAL ENGINEER, LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, SHALL OBSERVE, REVIEW, AND APPROVE ALL WORK RELATED TO EXCAVATION, BACKFILL, COMPACTION, SUBGRADE AND SUBBASE PREPARATION AND MATERIAL SELECTION.
- THE BUILDING SITE SHALL BE STRIPPED OF ANY TOPSOIL, ORGANIC MATTER, VEGETATION, FILL MATERIALS, AND OTHERWISE UNSUITABLE OR SOFT SUBGRADE MATERIALS.
- UNSUITABLE MATERIALS SHALL BE EXCAVATED DOWN TO RESIDUAL SOIL ELEVATIONS.
- SOIL BEARING ELEVATIONS SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILLING EXCAVATIONS OR CONSTRUCTING FOUNDATIONS.
- WHERE ROCK IS ENCOUNTERED WITHIN 12 INCHES OF FOUNDATION BEARING ELEVATION (SUBGRADE SHALL BE PROBED TO DETERMINE THIS), UNDERCUT ROCK BY 12 INCHES MIN. BELOW BEARING ELEVATION AND REPLACE WITH COMPACTED STRUCTURAL FILL.
- AT SLAB-ON-GRADE AREAS, FOLLOWING STRIPPING, THE SUBGRADES SHALL BE PROOFROLLED WITH A LOADED TANDEM AXLE DUMP TRUCK OR TEN-TON ROLLER UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER. AREAS WHICH EXHIBIT EXCESSIVE PUMPING OR WEAVING, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED WITH NEW COMPACTED STRUCTURAL FILL.
- COMPACTED FILL SHALL BE USED TO RAISE EXISTING GRADES TO THE PROPOSED NEW ELEVATION WHERE REQUIRED.
- UNDER-SLAB DRAINS, CONSISTING OF A 4 INCH WASHED GRAVEL OR CRUSHED STONE DRAINAGE LAYER (CORRESPONDING TO PA DOT 2B), SHALL BE USED BENEATH THE CONCRETE SLAB-ON-GRADE.

SINKHOLES

- CONSTRUCTION METHODS SHALL BE USED THAT MINIMIZE THE POTENTIAL FORMATION OF SINKHOLES DURING CONSTRUCTION. THE APPROVED INSPECTION AGENCY SHALL REVIEW SITE CONDITIONS DURING CONSTRUCTION TO VERIFY THAT PROPER PROCEDURES ARE USED TO MITIGATE SINKHOLE FORMATION. ANY SINKHOLES THAT ARE DISCOVERED DURING CONSTRUCTION SHALL BE REPAIRED UNDER THE DIRECT SUPERVISION OF THE APPROVED INSPECTION AGENCY. ANY POTENTIAL IMPACT TO THE FOUNDATION DESIGN, SUCH AS THE REQUIREMENT FOR THE FOUNDATIONS TO SPAN A SINKHOLE, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

CONCRETE REINFORCING

- REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318.
- CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
DEFORMED BARS ASTM A615, GRADE 60
DEFORMED BARS (WELDABLE) ASTM A706
WELDED WIRE FABRIC ASTM A1064
- LAP DEFORMED BARS 40 DIA., U.N.O. PROVIDE CORNER AND L BARS AT CORNERS AND INTERSECTIONS. REINFORCING INDICATED AS CONTINUOUS SHALL BE LAPPED. HOOKS SHALL BE STANDARD HOOKS, U.N.O. LAP WELDED WIRE FABRIC SUCH THAT THE OVERLAP OF THE OUTERMOST CROSS-WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS-WIRES PLUS TWO IN., U.N.O.
- PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE. USE TENSION SPLICE CLASS 'B' U.N.O. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES.
- CONCRETE PROTECTION FOR REINFORCEMENT:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER: 2 IN.
#6 THROUGH #18 BARS 1 1/2 IN.
#5 BAR OR SMALLER 3/4"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS: 3/4"
#1 AND SMALLER 1/8"
BEAMS, COLUMNS, PIERS: 1/2"
- REINFORCING FOR SLABS ON GRADE, WHERE NOT OTHERWISE SPECIFIED, SHALL BE AS FOLLOWS:
REINFORCING BARS: SEE FOUNDATION AND TYPICAL DETAILS. AT SLAB BLOCKOUT AND RE-ENTRANT CORNERS, PROVIDE 2#4 X 4'-0" DIAGONALS.
WIRE MESH: 6X6 W2.9XW2.3 WWF. REINFORCING SHALL BE SUPPORTED PRIOR TO THE POUR AT MID-DEPTH OF SLAB.
- REINFORCING FOR CONCRETE TOPPING, WHERE NOT OTHERWISE SPECIFIED, SHALL BE AS FOLLOWS:
REINFORCING BARS: SEE FRAMING AND TYPICAL DETAILS. AT OPENINGS AND RE-ENTRANT CORNERS, PROVIDE 2#4 X 4'-0" DIAGONALS.
WIRE MESH: 6X6 W2.9XW2.3 WWF. REINFORCING SHALL BE SUPPORTED 1" BELOW THE TOP OF SLAB PRIOR TO THE POUR.
- DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL MNL-66, AND WITH ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES.

CONCRETE SLABS ON GRADE

- GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE SUBGRADE BEFORE CONCRETE PLACEMENT.
- DO NOT PLACE CONCRETE SLABS ON FROZEN GROUND.
- CONTROL JOINTS ARE REQUIRED IN CONCRETE SLABS-ON-GRADE. REFER TO PLANS AND TYPICAL DETAILS FOR THE JOINT CONSTRUCTION, LOCATIONS, AND SPACING REQUIREMENTS.
- PROVIDE (2) #4 X 4'-0" LONG BARS DIAGONALLY AT ALL RE-ENTRANT CORNERS.
- COORDINATE LOCATION AND DIMENSIONS OF RECESSED SLABS.

CONCRETE MASONRY

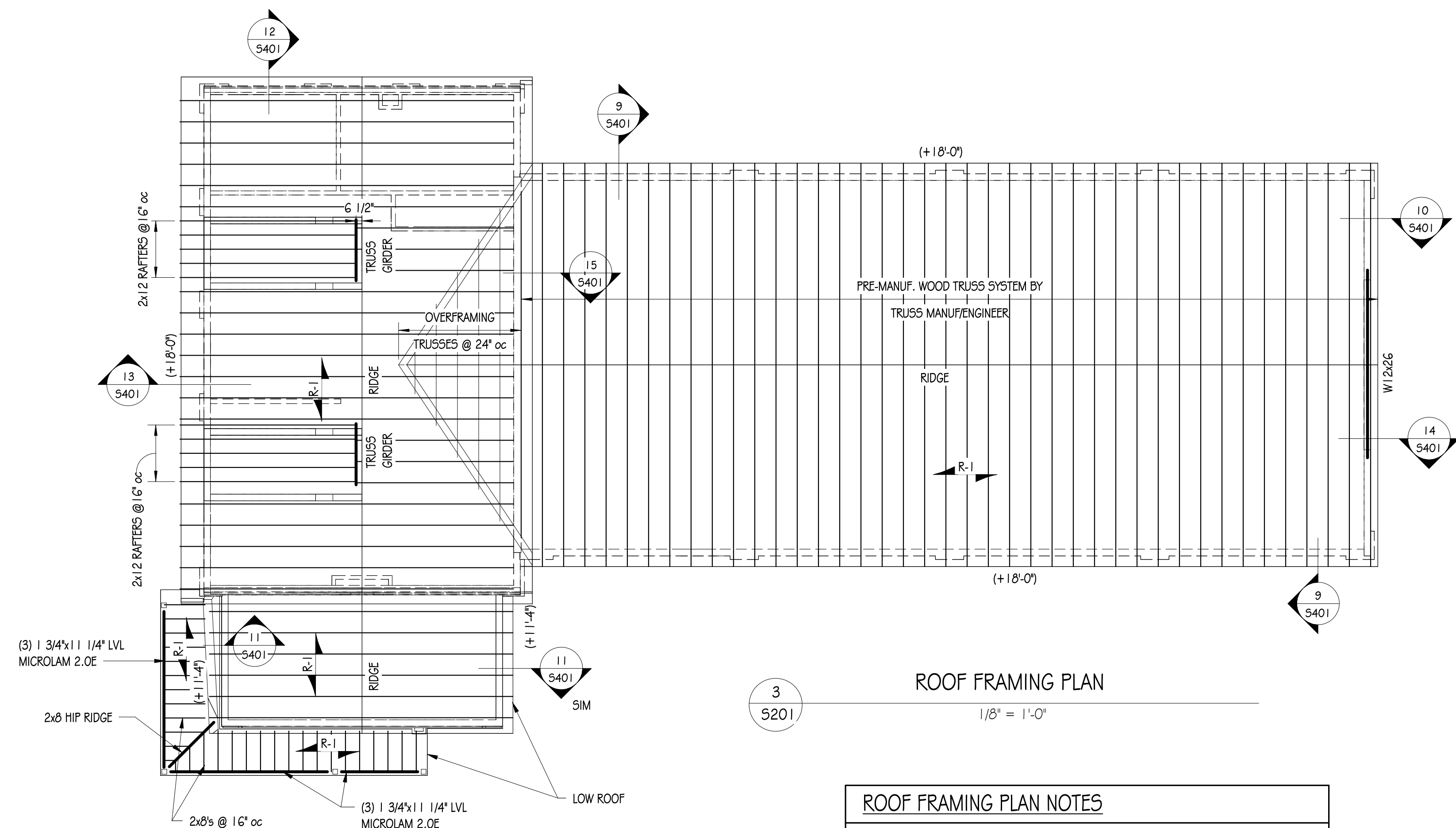
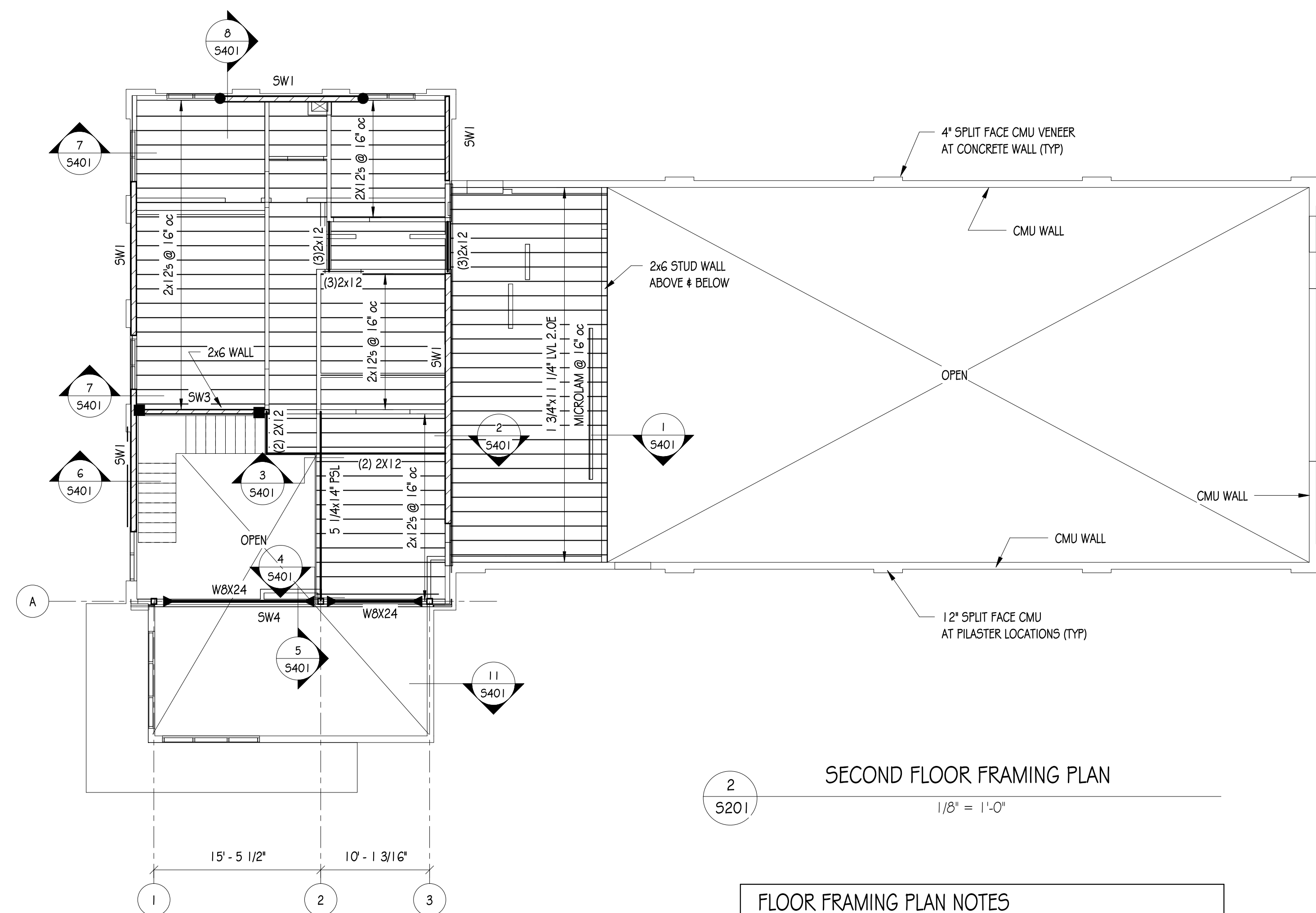
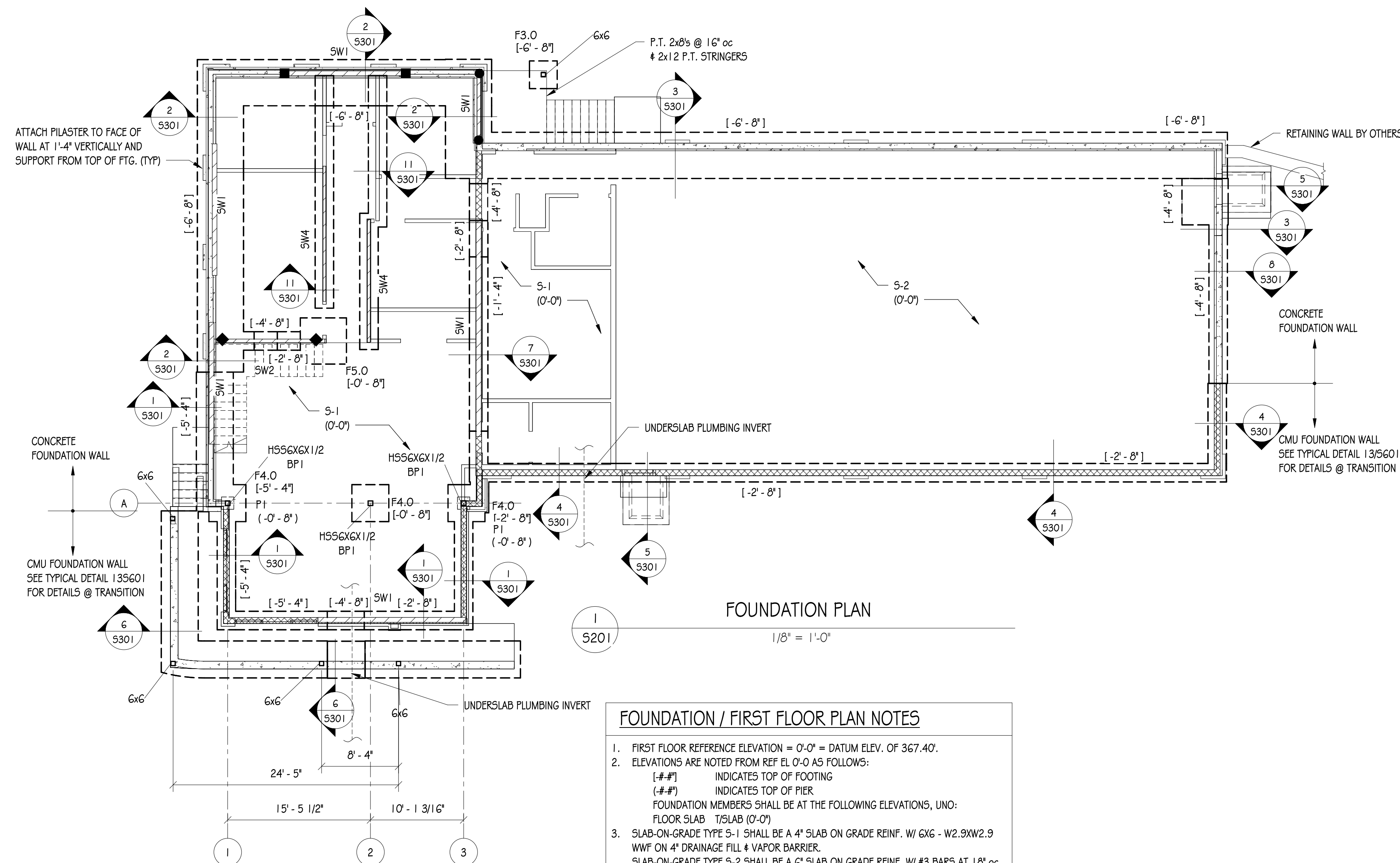
- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530 AND 530.1.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, Fm SHALL BE 1500 PSI. (MIN. NET AREA COMPRESSIVE STRENGTH OF UNIT = 1900 PSI.)
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.
- CONCRETE MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496.. DBA SHALL BE WELDED BY AUTOMATIC EQUIPMENT.
- GROUT SHALL CONFORM TO THE PROPORTIONAL REQUIREMENTS OF ASTM C476. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR THE SIZE OF VOID SPACE BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES ACHIEVED THROUGH SUFFICIENT WATER CONTENT. WATER REDUCING AND OTHER ADMIXTURES ARE NOT PERMITTED IN GROUT.
- GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, POL OR MORTAR CEMENT. THE USE OF MASONRY CEMENT IS NOT PERMITTED.
- REINFORCING VOIDS, AND NON-REINFORCING VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS. STOP POURS 1 1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT FOUR JOINTS.
- USE SQUARE END BLOCK TO ENSURE REINFORCED VOIDS ALIGN VERTICALLY.
- REINFORCED BARS SHALL BE TIED TO DOWELS AND HELD IN THE PROPER POSITION BY MECHANICAL BAR POSITIONERS DESIGNED FOR THAT PURPOSE.
- REINFORCING SHALL NOT BE FLANGED INTO WET GROUT.
- LAP UNCOATED, DEFORMED BARS 40 BAR DIAMETERS. INCREASE SPECIFIED LAP LENGTHS 50% FOR EPOXY COATED BARS.
- CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO. PLASTERS SHALL BE BONDED, UNO.
- LOAD BEARING/SHEARWALL CMU SHALL HAVE FULL MORTAR BED JOINTS.
- PROVIDE LADDER-TYPE HORIZONTAL JOINT REINFORCEMENT AS FOLLOWS:
TYPICAL 16 IN. O/C MAX, UNO.
AT BELOW GRADE WALLS: PROVIDE AT 8" O/C
AT PARAPETS: PROVIDE AT 8" O/C
AT WALL OPENINGS: PROVIDE ADDI. REINF. NOT MORE THAN 8 IN. ABOVE AND BELOW OPENING. TERMINATE 2 FT. BEYOND OPENING.
- PROVIDE CONTINUITY AT INTERSECTIONS AND CORNERS USING PREFABRICATED T-SHAPED AND L-SHAPED UNITS, AND LAP ALL CONSECUTIVE SECTIONS OF TRUSS TYPE REINFORCING A MINIMUM OF 8 INCHES.
- PROVIDE VERTICAL CONTROL JOINTS IN WALLS AT 24 FT. O/C MAX, U.N.O.
- ALL CMU WALLS SHALL BE DOWELED TO SUPPORTING SLABS WITH MINIMUM #4@48 HOOKED DOWELS, UNO. ALL CMU WALLS SUPPORTED DIRECTLY ON STEEL MEMBERS SHALL BE ANCHORED WITH 1/2" DIAMETER X 4" STUD ANCHORS AT 32" O/C, OR WITH #4 X 2'-0" DBAS AT 48" O/C, UNO.
- THE TOPS OF ALL NON-LOAD BEARING CMU WALL SHALL BE BRACED ACCORDING TO SPECIFIC SECTIONS AND/OR TYPICAL DETAILS.
- PROVIDE BOND BEAMS FOR WALL THICKNESS AND HEIGHTS AS FOLLOWS:
BOND BEAM UNITS SHALL BE OPEN CELL UNITS THAT PERMIT VERTICAL REINFORCING TO PASS THROUGH.
6" CMU: UP TO 12 FT.: #5
UP TO 16 FT.: #6
UP TO 16 FT.: #5
10" & 12" CMU UP TO 12 FT.: #5
UP TO 24 FT.: #6
UP TO 32 FT.: #7
14" & 16" CMU UP TO 24 FT.: #6
UP TO 32 FT.: #7
- THE TOPS OF ALL NON-LOAD BEARING CMU WALL SHALL BE BRACED ACCORDING TO SPECIFIC SECTIONS AND/OR TYPICAL DETAILS.
- PROVIDE BOND BEAMS FOR WALL THICKNESS AND HEIGHTS AS FOLLOWS:
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10" & 12" CMU UP TO 12 FT.: #5
UP TO 24 FT.: #6
UP TO 32 FT.: #7
14" & 16" CMU UP TO 24 FT.: #6
UP TO 32 FT.: #7

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
STRUCTURAL STEEL WF SHAPES ASTM A992
OTHER STRUCTURAL STEEL SHAPES ASTM A36, UNO
STEEL BARS, ANGLES AND PLATES ASTM A36, UNO
STIFF PLATES IN MOMENT CONNECTIONS ASTM A572, UNO
ROUND PIPE ASTM A53, TYPE E OR S
SQUARE & RECTANGULAR HSS ASTM A500, GRADE C
ROUND HSS ASTM A500, GRADE B
- STRUCTURAL STEEL DESIGN IS AND SHALL BE BASED UPON AISC'S ASD METHOD.
- BOLTS SHALL BE MINIMUM 3/4 IN. DIA. AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:
HIGH STRENGTH BOLTS ASTM A3125
ANCHOR RODS ASTM F1554, GRADE 36 [55] [105]
- BOLTED CONN SHALL CONFORM TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
- WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
- GROUT UNDER STEEL COLUMNS OR POST BASEPLATES SHALL BE NON-METALLIC, SHRINKAGE RESISTANT GROUT CONFORMING TO ASTM C1107 AND HAVING A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5000 PSI. GROUT UNDER STEEL BEAM BEARING PLATES IN CONCRETE OR MASONRY WALLS SHALL CONFORM TO ASTM C476.
- HIGH STRENGTH BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION, UNO.
- HIGH STRENGTH BOLTS IN CONNECTIONS USED FOR KICKERS, BRACING MEMBERS OR MOMENT CONNECTIONS THAT ARE FABRICATED WITH SLOTTED HOLES SHALL BE SUP. CRITICAL. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE-TENSIONED.
- MINIMUM CAPACITY OF BEAM SHEAR CONNECTIONS: DESIGN CONNECTIONS USING THE "MAXIMUM TOTAL UNIFORM LOAD" TABLES IN THE AISC MANUAL. FOR NON-COMPOSITE BEAMS THE CONNECTION CAPACITY SHALL BE AT LEAST 50% OF THE MAXIMUM UNIFORM LOAD CAPACITY, UNO. FOR COMPOSITE BEAMS, THE CONNECTION CAPACITY SHALL BE AT LEAST 50% OF THE MAXIMUM TOTAL UNIFORM LOAD, UNO. REACTIONS NOTED ON DRAWINGS ARE BASED ON ASD.
- PROVIDE FULL DEPTH CONNECTIONS AT ALL BEAM OR GIRDER TO COLUMN CONNECTIONS.
1. PROVIDE COLUMN CAP PLATES AS FOLLOWS, UNO:
FOR DECK BEARING: 1/4" THICK (PROVIDE WHERE BEAMS DO NOT FRAME INTO BOTH SIDES OF COLUMN)
1/2" THICK AT K SERIES JOISTS
FOR JOIST BEARING: 3/4" THICK AT L H & DLH JOISTS
1" THICK AT JOIST GIRDERS
SEE TYPICAL DETAILS, 3/4" MIN.
FOR BEAM BEARING: 1/2" THICK FOR WOOD TRUSSES BEARING: 1/2" THICK FOR MOMENT CONNECTIONS: SEE TYPICAL DETAILS
PROVIDE COLUMN CAP PLATES AT ALL HSS COLUMNS.
- WEB STIFFENERS SHALL BE PROVIDED IN WF SHAPES AS FOLLOWS:
COLUMN WEBS: AT FULLY-DEVELOPED MOMENT CONNECTIONS. STIFFENERS SHALL BE COMPLETE PENETRATION GROOVE WELDED, SAME THICKNESS AND GRADE AS BEAM FLANGES. WHERE MOMENT CONNECTIONS OCCUR ON COLUMN FLANGES AND COLUMN WEBS, STIFFENER THICKNESS SHALL EQUAL THE VECTOR SUMMATION OF THE RESPECTIVE BEAM FLANGE THICKNESSES.
BEAM WEBS: WHERE BEAM BEARS ON COLUMN, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
BEAM WEBS: WHERE COLUMN BEARS ON BEAM, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
- PRIOR TO DETAILING CONNECTIONS FOR STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS FOR EACH TYPE OF PROPOSED STRUCTURAL CONNECTION. SUCH DETAILS SHALL INDICATE DESIGN CAPACITIES. AFTER APPROVAL, THE CONNECTIONS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED.

UNTELS

- PROVIDE UNTELS OVER OPENINGS IN WALLS AT DOORS, WINDOWS, MECHANICAL AND ELECTRICAL SERVICES AND EQUIPMENT, WALLS IN FRONT OF RECESSED ENTRIES, ETC., UNO.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL UNTELS. UNTEL LOCATIONS ARE NOT GENERALLY SHOWN ON PLAN.
- REFER TO UNTEL SCHEDULE FOR UNTEL SIZES.
- UNTEL TYPES MAY BE STEEL, PRECAST CONCRETE, OR CAST-IN-PLACE CONCRETE MASONRY UNTELS. REFER TO THE UNTEL SCHEDULE AND ARCHITECTURAL DRAWINGS FOR TYPE OF UNTEL REQUIRED AT EACH LOCATION.
- STEEL MATERIALS: REFER TO STRUCTURAL STEEL NOTES. STEEL UNTELS AT EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED.
- PRECAST CONCRETE UNTELS SHALL HAVE A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH OF 5000 PSI. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706.
- CAST-IN-PLACE MASONRY UNTELS SHALL BE CONSTRUCTED USING U-SHAPED CMU UNITS. REINFORCING SHALL EXTEND BEYOND MASONRY OPENING BY 8" EACH END. SPECIFIED HEIGHT OF MASONRY UNTEL SHALL BE GROUTED IN ONE OPERATION. CIP MASONRY UNTELS SHALL BE SHORED A MINIMUM OF 7 DAYS AFTER GROUTING. REFER TO CONCRETE MASONRY NOTES FOR MATERIAL INFORMATION AND REQUIREMENTS.
- STEEL STUD CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1010 THROUGH 1020 (60 KSI TENSILE STRENGTH), AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496. STUDS AND DBAS SHALL BE WELDED BY AUTOMATIC EQUIPMENT.
- ALL UNTELS SHALL BEAR 8" MIN ON FULL MORTAR BED. GROUT SOLID 2 COURSES BELOW BEARING, MIN., UNO.
- WHEN UNTELS HAVE LESS THAN THE SPECIFIED BEARING LENGTH DUE TO AN ADJACENT STEEL COLUMN:
A. FOR STEEL UNTELS, CONNECT UNTEL TO COLUMN
B. FOR PRECAST OR CIP UNTELS, PROVIDE LG6X3/8 X WIDTH OF UNTEL WELDED TO COLUMN FOR UNTEL BEARING. WHERE BEARING IS EXPOSED, NOTCH UNTEL 50 BOTTOM OF ANGLE AND UNTEL ARE FLUSH.
- PROVIDE MASONRY ANCHORS AT ALL STEEL BEAMS BEARING ON MASONRY WALLS. ANCHORS SHALL BE LOCATED CLOSE TO BEAM TOP FLANGE.
- PROVIDE PRECAST UNTELS BEARING 8" MIN. ON A FULL MORTAR BED AS FOLLOWS: (6"-8" MAX. MASONRY OPENING)
A. 4 IN. WALLS 4 IN. X 8 IN. (NOMINAL), REINF. W/ #4 T4B
B. 6 IN. WALLS 6 IN. X 8 IN. (NOMINAL), REINF. W/ #5 T4B
C. 8 IN. WALLS 8 IN. X 8 IN. (NOMINAL), REINF. W/ #5 T4B
D. 12 IN. WALLS 12 IN. X 8 IN. (NOMINAL), REINF. W/ #5 T4B
- PROVIDE ON STEEL ANGLE PER EACH 4 IN. OF MASONRY THICKNESS BEARING 8" MIN. ON A FULL MORTAR BED AS FOLLOWS:
A. MASONRY OPENINGS UP TO 4'-0" L4X3 1/2 X 5/16", LLV
B. MASONRY OPENINGS > 4'-0" TO 6'-8" L5X3 1/2 X 3/8", LLV
C. MASONRY OPENINGS > 6'-8" TO 8'-0" LGX3 1/2 X 5/16", LLV
- FOR 6" CMU, PROVIDE AS FOLLOWS:
A. MASONRY OPENINGS UP TO 6'-8" WTSX13
B. MASONRY OPENINGS > 6'-8" TO 8'-0" WTX13



FOUNDATION / FIRST FLOOR PLAN NOTES

1. FIRST FLOOR REFERENCE ELEVATION = 0'-0" = DATUM ELEV. OF 367.40'.
2. ELEVATIONS ARE NOTED FROM REF. EL. 0'-0" AS FOLLOWS:
 (##.#) INDICATES TOP OF FOOTING
 (##.#) INDICATES TOP OF FIER
 FOUNDATION MEMBERS SHALL BE AT THE FOLLOWING ELEVATIONS, UNO:
 FLOOR SLAB - T5LAB 0'-0" SHALL BE A 4" SLAB ON GRADE REINF. W/ G/6 - W2.3XW2.9
 WWF ON 4" DRAINAGE FLIT 1 VAPOR BARRIER.
 SLAB-ON-GRADE TYPE 2-5 SHALL BE A 4" SLAB ON GRADE REINF. W/ 8 BARS AT 1' ON EACH
 WAY ON 4" DRAINAGE FLIT 1 VAPOR BARRIER.
 SLAB-ON-GRADE TYPE 3-3 SHALL BE A 4" SLAB ON GRADE REINF. W/ G/6 - W2.3XW2.9
 WWF ON 4" DRAINAGE FLIT.
3. COORDINATE WITH ARCH, MECH, ELEC, AND PLUMB DRAWINGS FOR FLOOR SLOPES,
 DRAINAGE, VENTILATION, REPRESSIONS, ETC., NOTED SHOW ON THIS PLAN, AT ALL TOILETS
 AND OTHER ROOMS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
6. UNDER SLAB PLUMBING SHOWN THIS -----, SEE TYP. DETAILS FOR STEPPED
 FOOTINGS @ PLUMBING LINES.
7. BOTTOM OF NEW FOOTINGS SHALL MATCH ADJACENT BOTTOM OF EXISTING FOOTINGS
 STEP FOOTINGS AS REQUIRED.
8. DRAINAGE SLOPES OF SUBSIAL BARS AT ALL RE-ENTRANT SLAB-ON-GRADE CORNERS.
9. REFER TO STRUCTURAL NOTES ON S101.
10. REFER TO TYPICAL NOTES ON S601.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING (EACH WAY - BOT)
F3.0	3'-0 x 3'-0 x 1'-0	3#5
F4.0	4'-0 x 4'-0 x 1'-0	4#5
F5.0	5'-0 x 5'-0 x 2'-0	5#5

SHEAR WALL SCHEDULE

MARK	SHEATHING	NAIL INFORMATION		BLOCKED EDGES	PLACEMENT NOTES	
		EDGE	FIELD			
SW1	1/2" PLYWOOD	8d @ 6"	8d @ 12"	YES	ON EXTERIOR FACE OF WALL	
SW2	1/2" PLYWOOD	8d @ 4"	8d @ 12"	YES	ONE FACE OF INTERIOR WALL	
SW3	5/8" PLYWOOD	8d @ 12"	8d @ 12"	YES	ONE FACE OF INTERIOR WALL	
SW4	1/2" GTSUM	6d @ 4"	6d @ 4"	YES	ONE FACE OF INTERIOR WALL	
MARK	HOLDOWN	MINIMUM WALL MEMBER	ANCHOR ROD INFORMATION	MINIMUM EMBED DEPTH/ANCHOR HOOK		
◆	HDU2-S052-5	(2) 2x STUDS	5/8" DIA. S05TB16	CMU/CONCRETE	SLAB ON GRADE	
◆	HDU5-S052-5	(2) 2x STUDS	5/8" DIA. S05TB24	12 5/8"	CAST IN PLACE	
◆	HDU11-S052-5	(3) 2x STUDS	7/8" DIA. PAB7	20 5/8"	CAST IN PLACE	
				18"	HILTI HY 200	

SHEAR WALL NOTES:

1.  INDICATES SHEAR WALL
2. SHEAR WALL STUD FRAMING TO BE SPRUCE PINE FIR, UNO.
3. INSTALL HOLD-DOWN ANCHORS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
4. WHERE TWO LAYERS OF SHEATHING ARE USED, SHEATHING IS TO BE APPLIED TO BOTH FACES OF SHEARWALL.
5. WHERE ONE LAYER OF SHEATHING IS NOT USED, SHEATHING IS TO BE APPLIED TO ONE FACE OF SHEARWALL ONLY.
6. PROVIDE TWO STUDS MINIMUM AT THE ENDS OF SHEARWALLS, U.N.O.
7. SEE TYPE SHEAR WALL DETAILS ON 5-603.

- SHEAR WALL NOTES:**
1.  INDICATES SHEAR WALL.
 2. SHEAR WALL STUD FRAMING TO BE SPRUCE PINE FIR, UNO.
 3. INSTALL HOLD-DOWN ANCHORS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
 4. WHERE TWO LAYERS OF SHEATHING ARE NOTED, SHEATHING IS TO BE APPLIED TO BOTH FACES OF SHEARWALL.
 5. WHERE ONE LAYER OF SHEATHING IS NOTED, SHEATHING IS TO BE APPLIED TO ONE FACE OF SHEARWALL ONLY.
 6. PROVIDE TWO STUDS MINIMUM AT THE ENDS OF SHEARWALLS, U.N.O.
 7. SEE TYPICAL SHEAR WALL DETAILS ON 5-603.

ROOF FRAMING PLAN NOTES

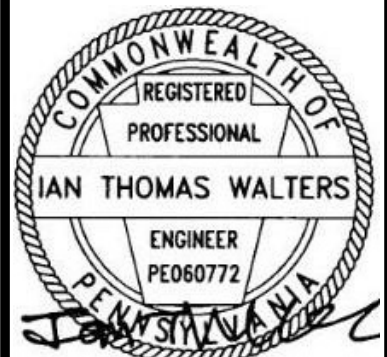
1. ROOF REFERENCE ELEVATION IS (7'-0").
2. ELEVATIONS ARE NOTED AS FOLLOWS, REFERENCE FROM THE REFERENCE ELEVATION:
(+1'-0" / 0" / +11'-4") INDICATES TRUSS BEARING ELEVATION
3. ROOF CONSTRUCTION TYPE R-1 SHALL BE 5/8" PLYWOOD ROOF DECK INSTALLED PERPENDICULAR TO TRUSS CHORDS.
4. ROOF TRUSSES SHALL BE EQUALLY SPACED AT 2'-0" O/C MAX U.N.O. REFER TO TRUSS MANUF. LAYOUT AND DESIGN.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
6. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS.
7. ALL BUILD-UP STUDS SHALL BE CONTINUOUS TO THE FOUNDATION OR PODIUM LEVEL, TYP.
8. PROVIDE UNITS AND HEADERS ACCORDING TO STRUCTURAL NOTES AND SCHEDULES.
9. ATTACH 1" PLYWOOD ROOF DECK @ 1/4 nails @ 6" o/c at ALL SUPPORTED PANEL EDGES
10. ATTACH 1/2" ROOF NAILS @ 12" o/c at ALL INTERMEDIATE FRAMING MEMBERS. PLYWOOD PANEL EDITIONS AND STAGGERS SHALL BE USED AS SHOWN. SEE PLAN FOR PANEL SPAN DESIGN.
11. REFER TO STRUCTURAL NOTES ON DRAWINGS 5101.
12. REFER TO SPECIAL DETAILS ON DRAWING 5601.

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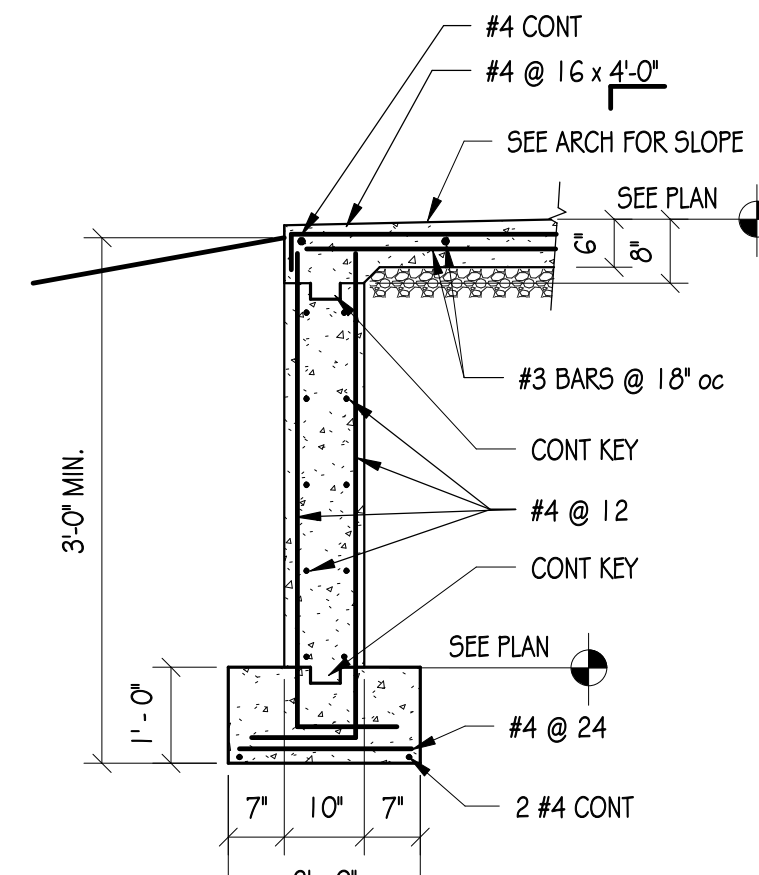
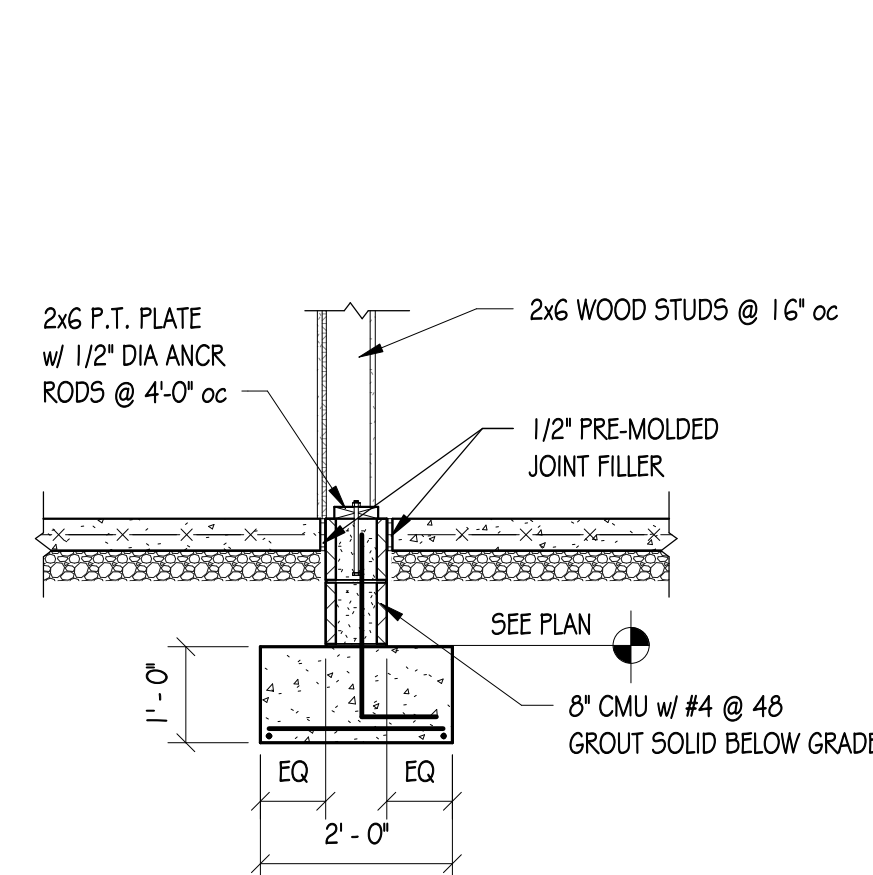
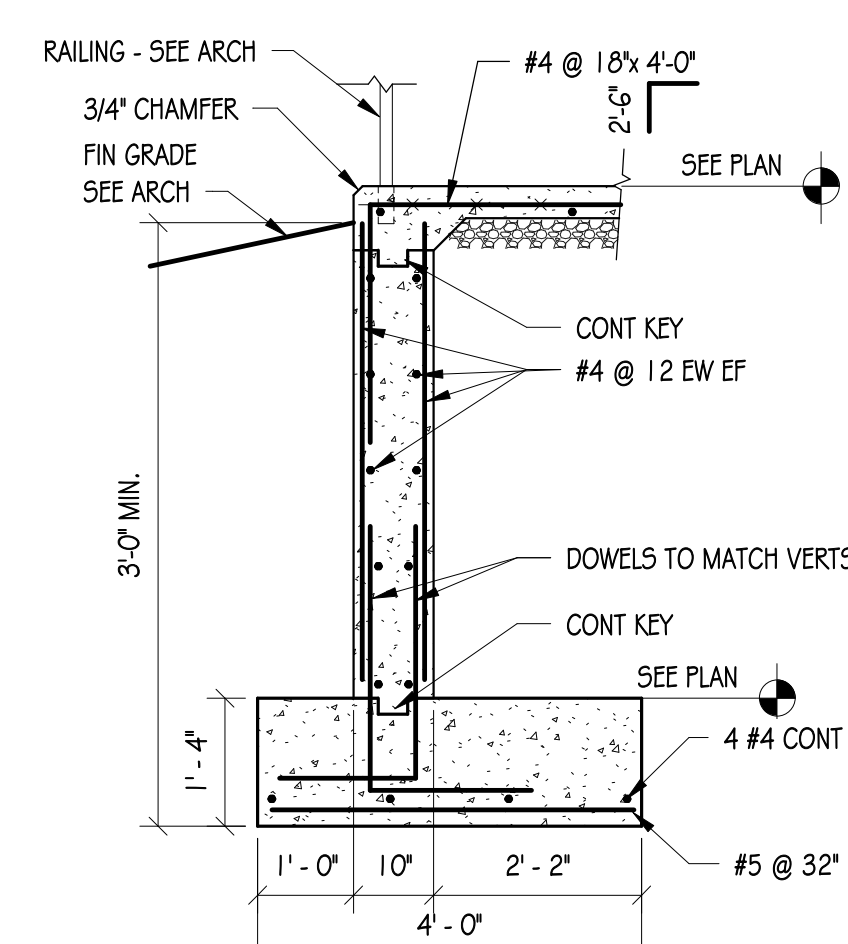
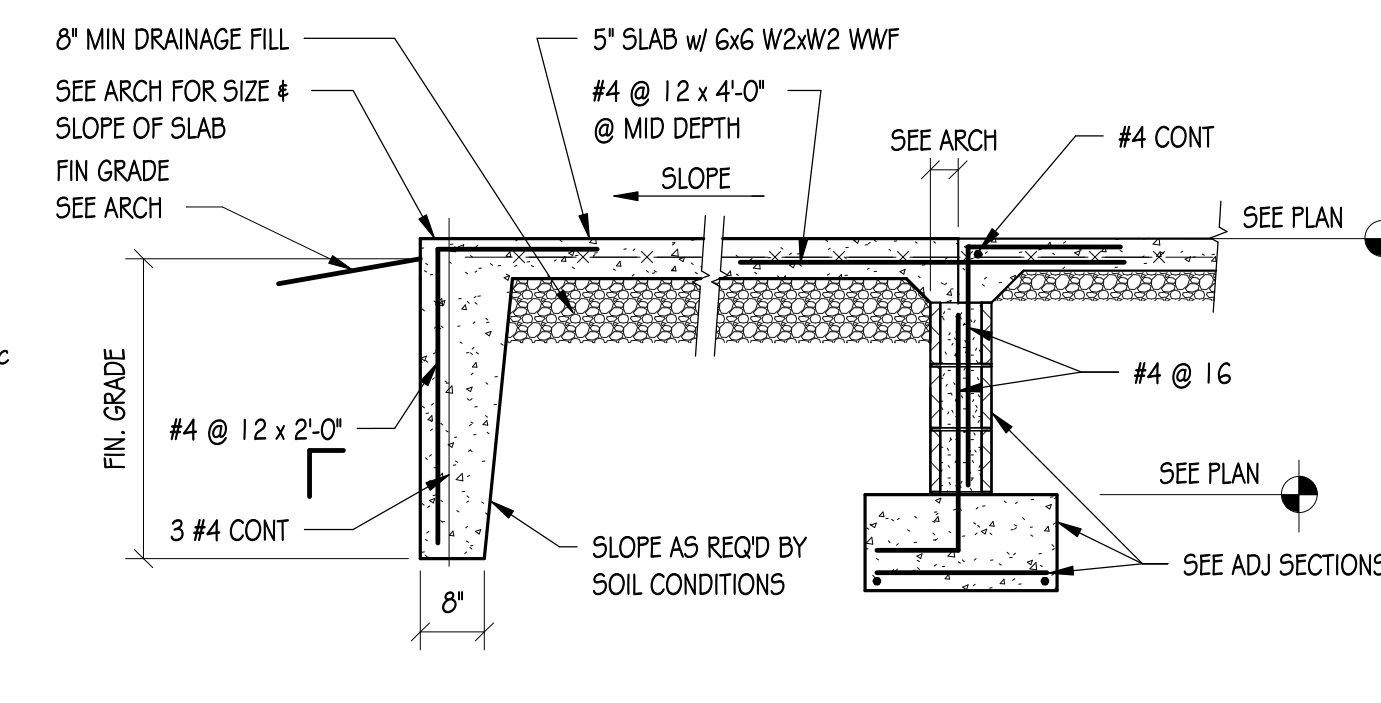
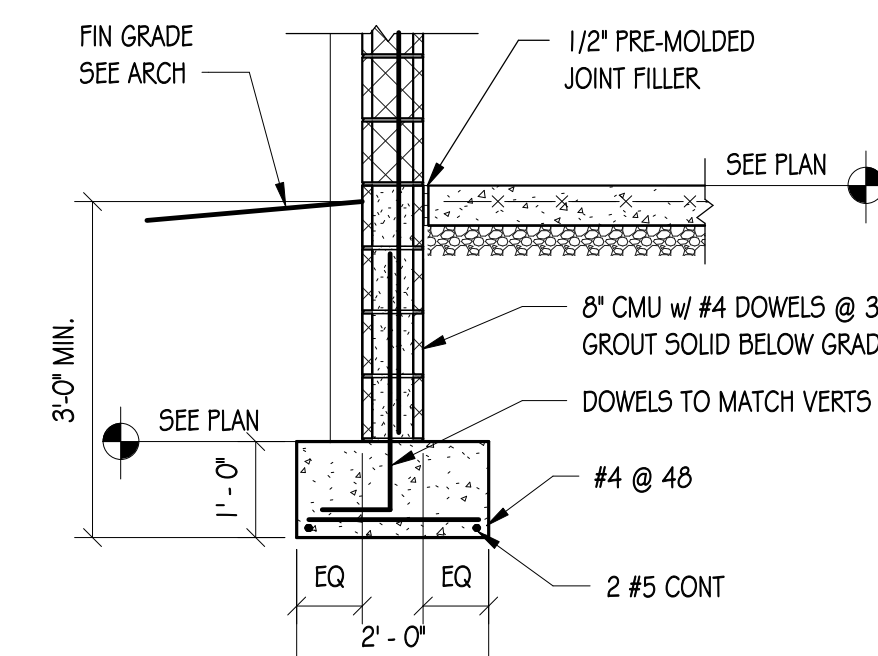
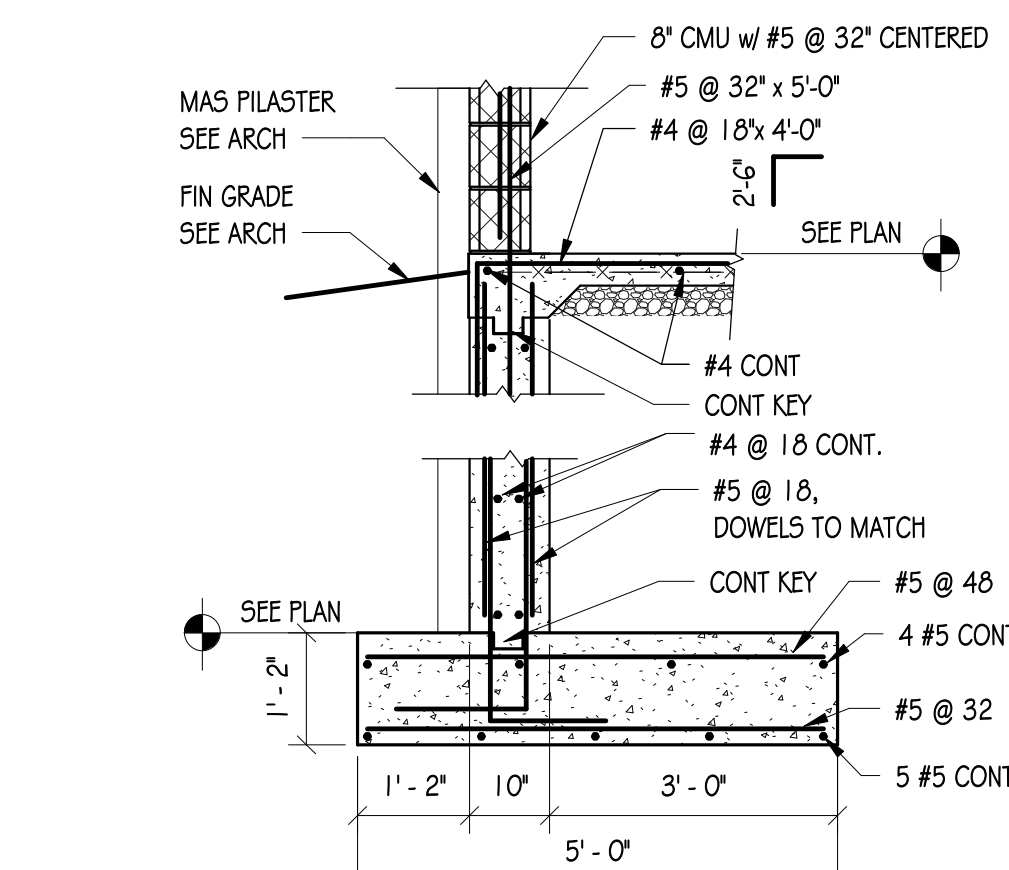
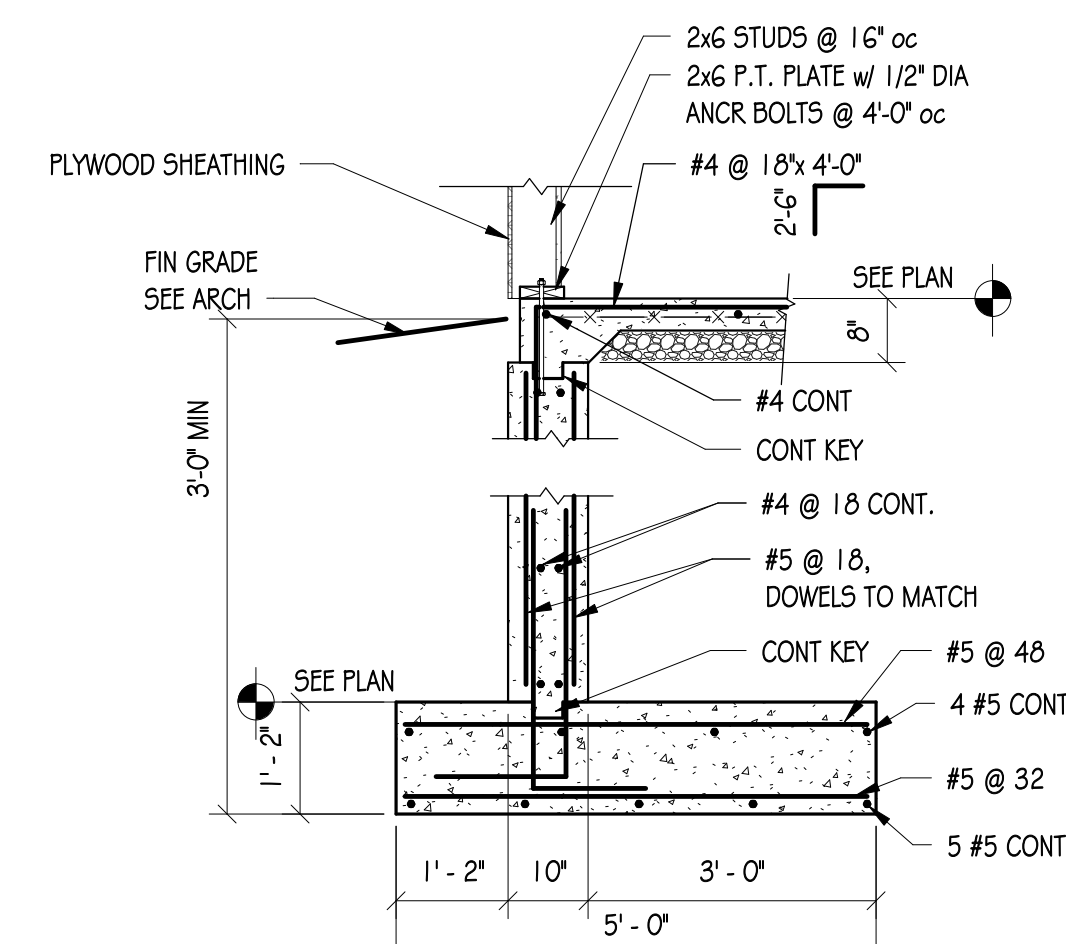
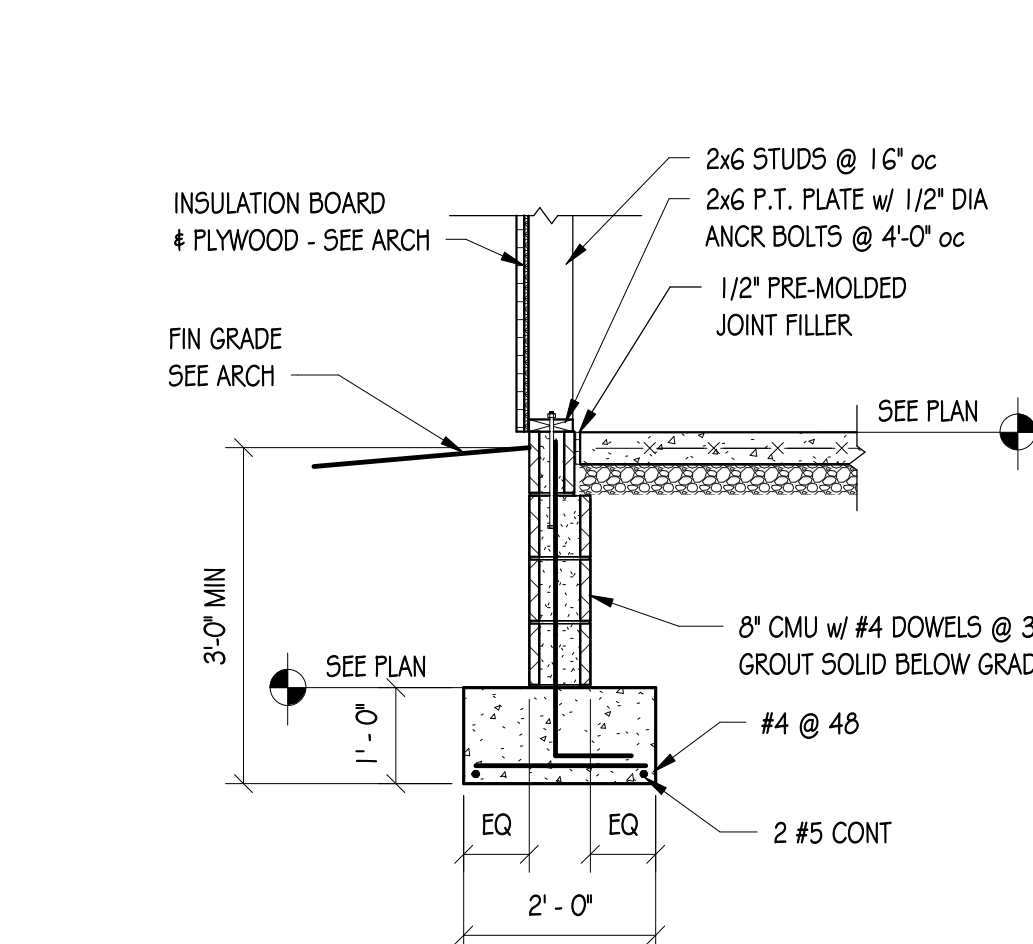
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STRUCTURAL PLANS

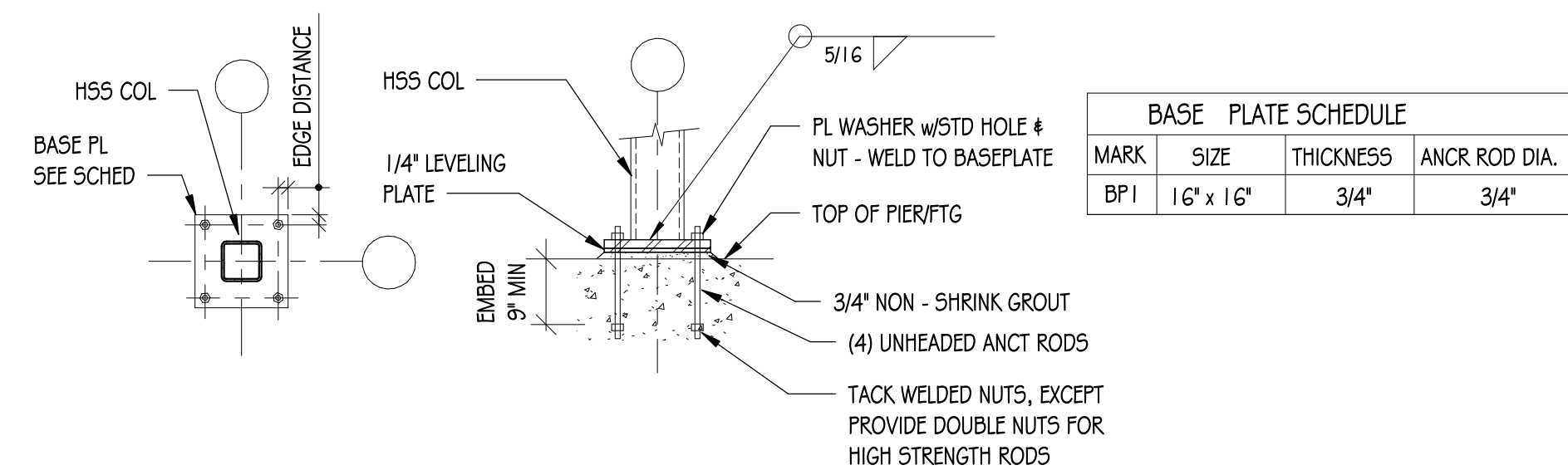
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S201

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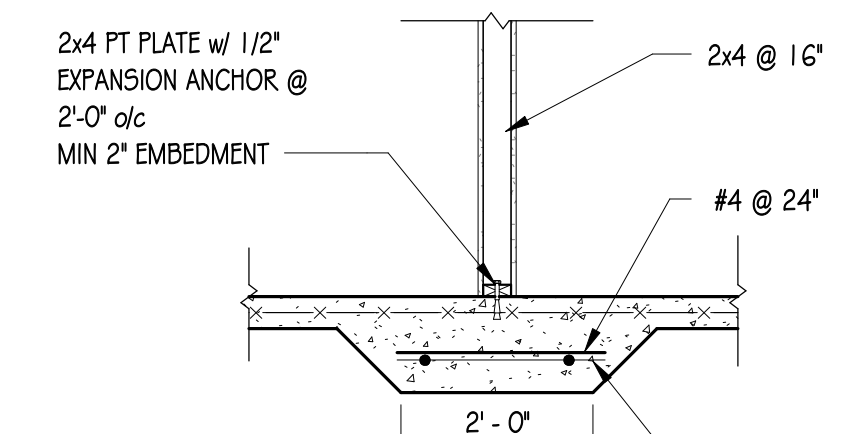
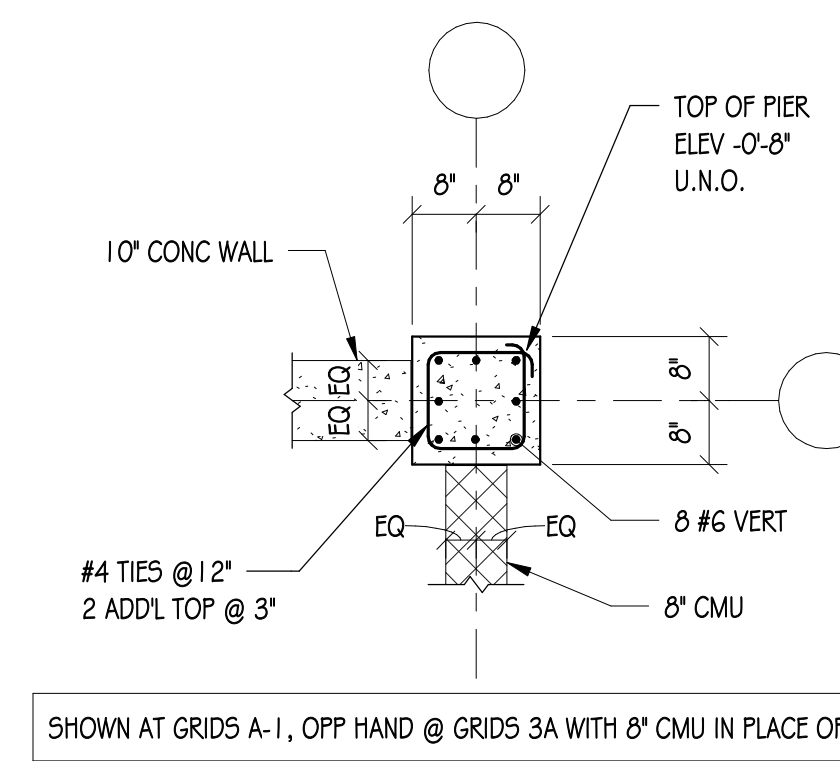
PERMIT SET 2.2.2024



BASE PLATE DETAILING SCHEDULE					
ANCR ROD DIA.	EMBEDMENT (GRADE 3G)	BASE PL. HOLE DIA.	EDGE DISTANCE	PL WASHER DIA.	PL WASHER THICKNESS
3/4"	12"	1 5/16"	1 1/2"	2"	1/2"



BASE PLATE SCHEDULE			
MARK	SIZE	THICKNESS	ANCR ROD DIA.
BPI	16" x 16"	3/4"	3/4"



EAGLE BUILDING SOLUTIONS
OFFICE & EQUIPMENT SHOP BLDG

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FOUNDATION SECTIONS

Sheet Number:
S301

BH JOB NO.	23-015
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THE BOARD OF ARCHITECTS OF THE STATE OF CALIFORNIA HAS REVIEWED THE APPLICATION OF THE ABOVE NAMED ARCHITECT AND HAS GRANTED THE APPLICATION FOR A LIMITED TERM LICENSE TO PRACTICE AS AN ARCHITECT FOR THE PERIOD OF 12 MONTHS, EXPIRING ON 01/01/2024. THE LICENSEE SHALL NOT BE ELIGIBLE FOR RENEWAL OF THE LICENSE UNTIL THE LICENSEE HAS COMPLETED THE REQUIRED CEU CREDITS AND THE BOARD OF ARCHITECTS HAS REVIEWED THE APPLICATION FOR RENEWAL OF THE LICENSE.

PERMIT SET
2.2.2024

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COMMONWEALTH OF MASSACHUSETTS
REGISTERED PROFESSIONAL
IAN THOMAS WALTERS
ENGINEER
FO004712
JAN 2024

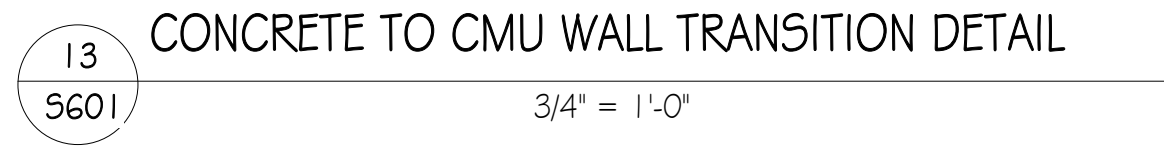
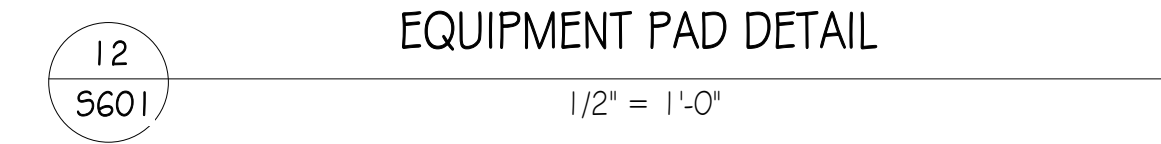
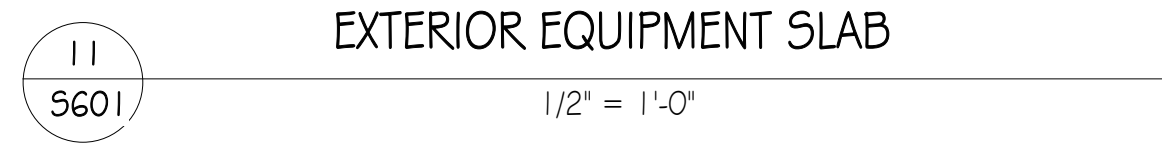
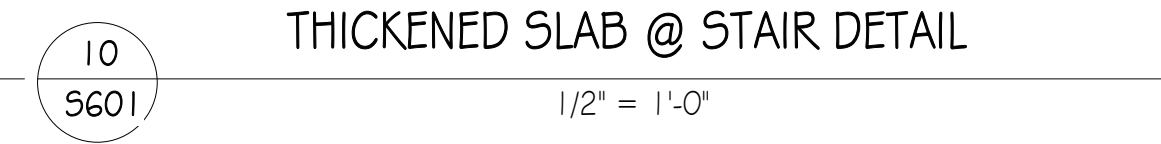
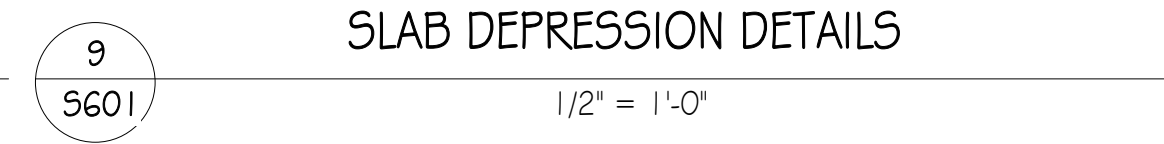
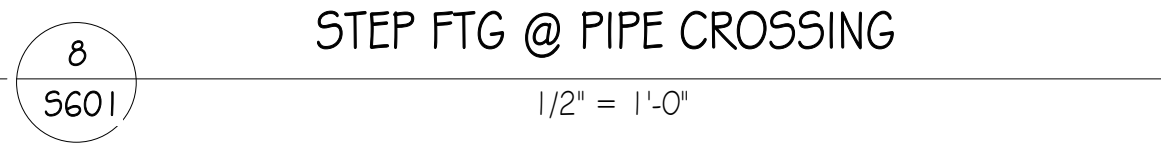
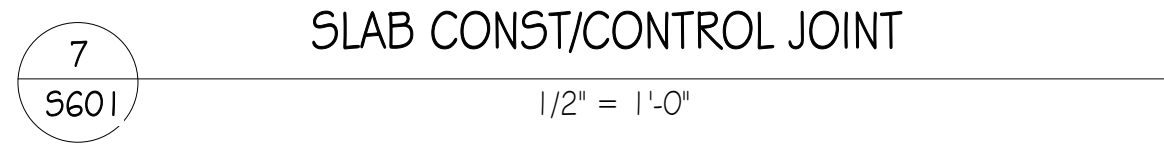
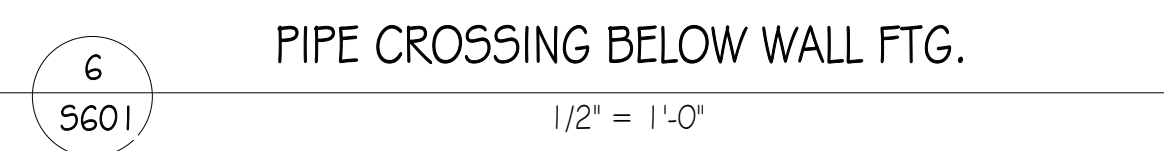
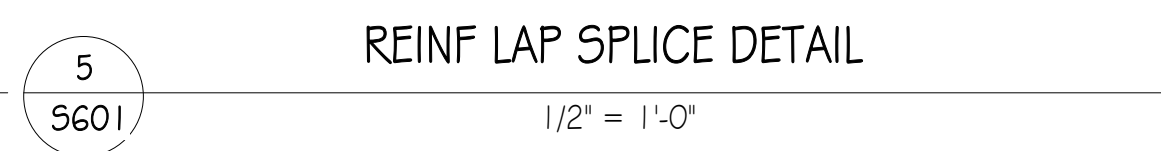
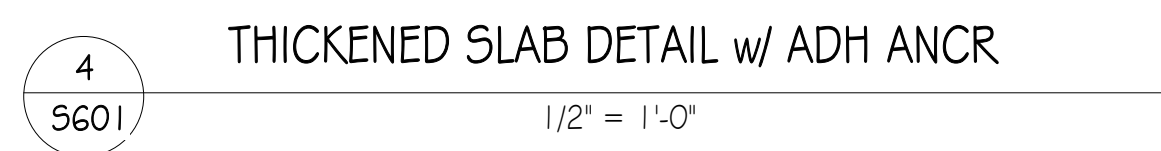
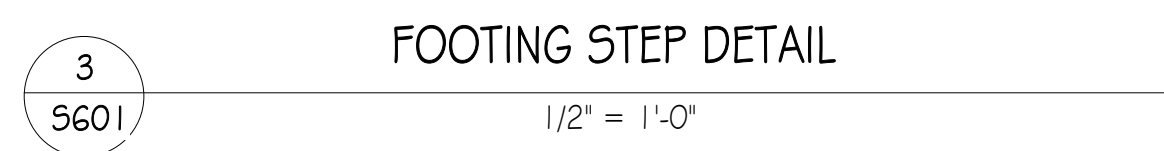
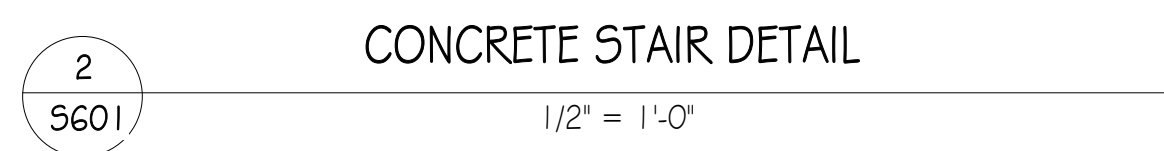
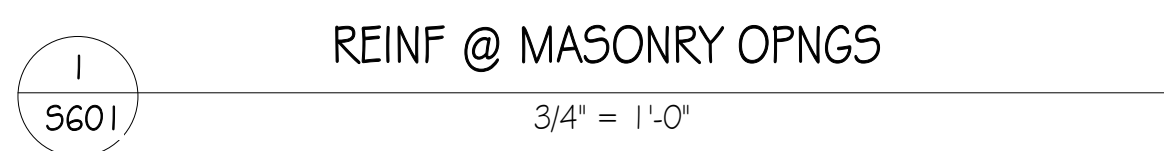


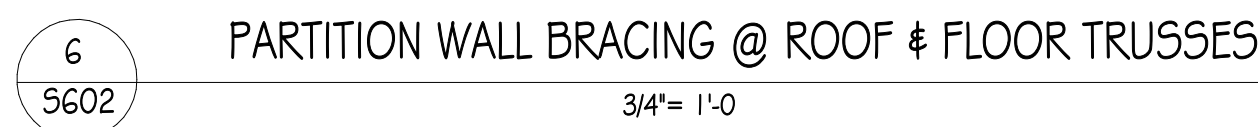
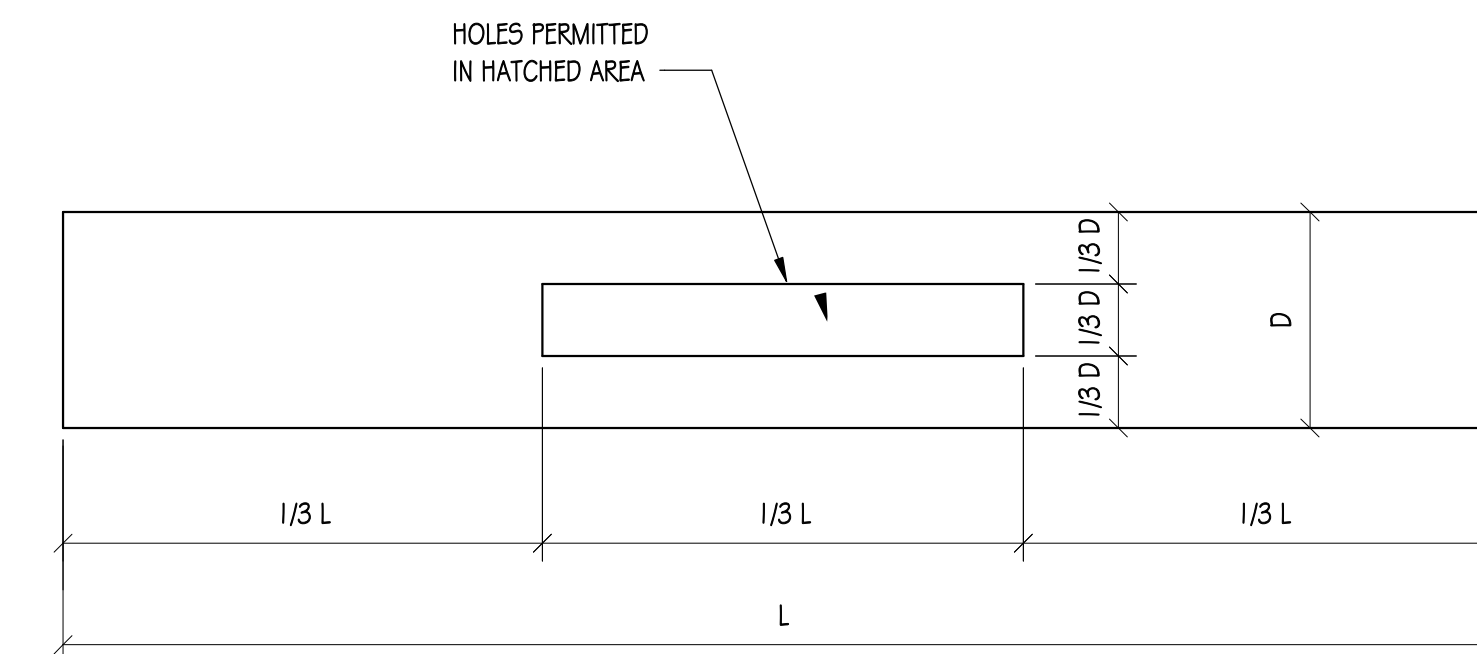
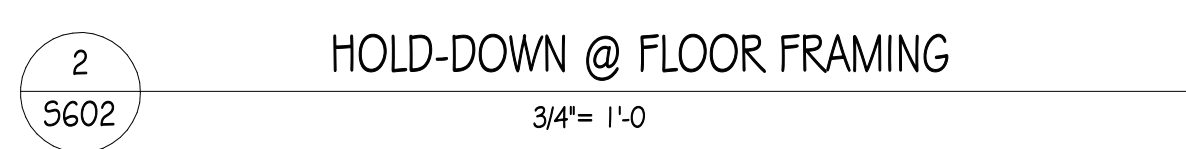
BAKER, INGRAM, & ASSOCIATES
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1547 Oregon Pike Lancaster, PA 17601
 Lancaster, Pennsylvania 717.290.7400
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 Haddon Heights, New Jersey PROJECT NO. 15470

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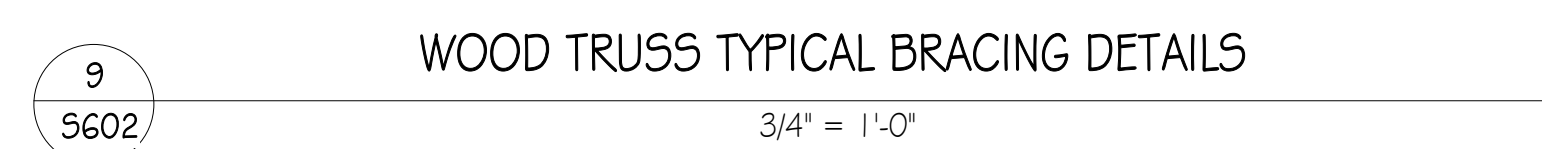






HEADER NOTES:

1. AT WINDOW SILL LOCATIONS PROVIDE (2) 2x TOP PLATE.
2. ALL MULTIPLE JACK & KING STUDS SHALL BE FASTENED TOGETHER.
3. HEADER SCHEDULE APPLIES TO 2x BEARING WALLS.
4. REFER STRUCTURAL NOTES ON S-1.1 FOR NON-LOAD BEARING WALL HEADERS.
5. PROVIDE 2 JACK STUDS AND 2 KING STUDS AT HEADERS SHOWN ON PLAN.



	DIFFUSER
	REGISTER
	SIDEWALL DIFFUSER
	SIDEWALL REGISTER
	EXHAUST LOUVER
	INTAKE LOUVER
	BALANCING DAMPER
	FIRE DAMPER
	ATC MOTORIZED DAMPER
	SQUARE DUCT ELBOW WITH TURNING VANES
	THERMOSTAT
	COMBINATION THERMOSTAT-HUMIDISTAT
	CO2 SENSOR
	CONTROL SWITCH
	REFRIGERANT PIPING
	HVAC EQUIPMENT

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- GENERAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- DUCTWORK NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

- DUCTWORK SIZE NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

(THESE ABBREVIATIONS APPLY TO ALL DRAWINGS)

D	DIFFUSER
R	REGISTER
L	LOUVER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
BD	BALANCING DAMPER
MOD	MOTOR OPERATED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL
WV	WALL VENT
RV	ROOF VENT

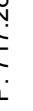
FLA	FULL LOAD AMPS
MCA	MAXIMUM CURRENT AMPS
MOP	MAXIMUM OVERCURRENT PROTECTION
GA	GAUGE
<u>GENERAL</u>	
TYP	TYPICAL
AFB	ABOVE FINISHED FLOOR
TFB	TO FLOOR BELOW
TFA	TO FLOOR ABOVE
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
AFB	ABOVE FINISHED FLOOR

RA	RETURN AIR
OA	OUTSIDE AIR
EA	EXHAUST AIR
T.O.	TRANSFER OPENING
T.O. (E)	EXISTING TRANSFER OPENING
CLG	CEILING
ETR	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
B.O.D.	BOTTOM OF DUCT
C.O.D.	CENTER OF DUCT

PD	PRESSURE DROP
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
WB	WET BULB
DB	DRY BULB
AMB	AMBIENT
WPD	WATER PRESSURE DROP
APD	AIR PRESSURE DROP
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
PRV	PRESSURE REDUCING VALVE
BRD	BOILER BLOWDOWN



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NOTES,
SYMBOLS, AND
ABBREVIATIONS

Sheet Number:

H001

BH JOB NO. 29-015



OFFICE & SHOP BUILDING SPLIT SYSTEM AIR HANDLERS

NOTES:

- 1) MANUF. DISCONNECT SWITCH
- 2) INDOOR UNIT POWERED BY OUTDOOR UNIT, MANUF. DISCONNECT SWITCH, ELECTRIC HEATER 5KW HEAT KIT
- 3) REMOTE PROGRAMMABLE WIRED TOUCH SCREEN THERMOSTAT; HEAT, COOL AND DRY MODES.
- 4) SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.

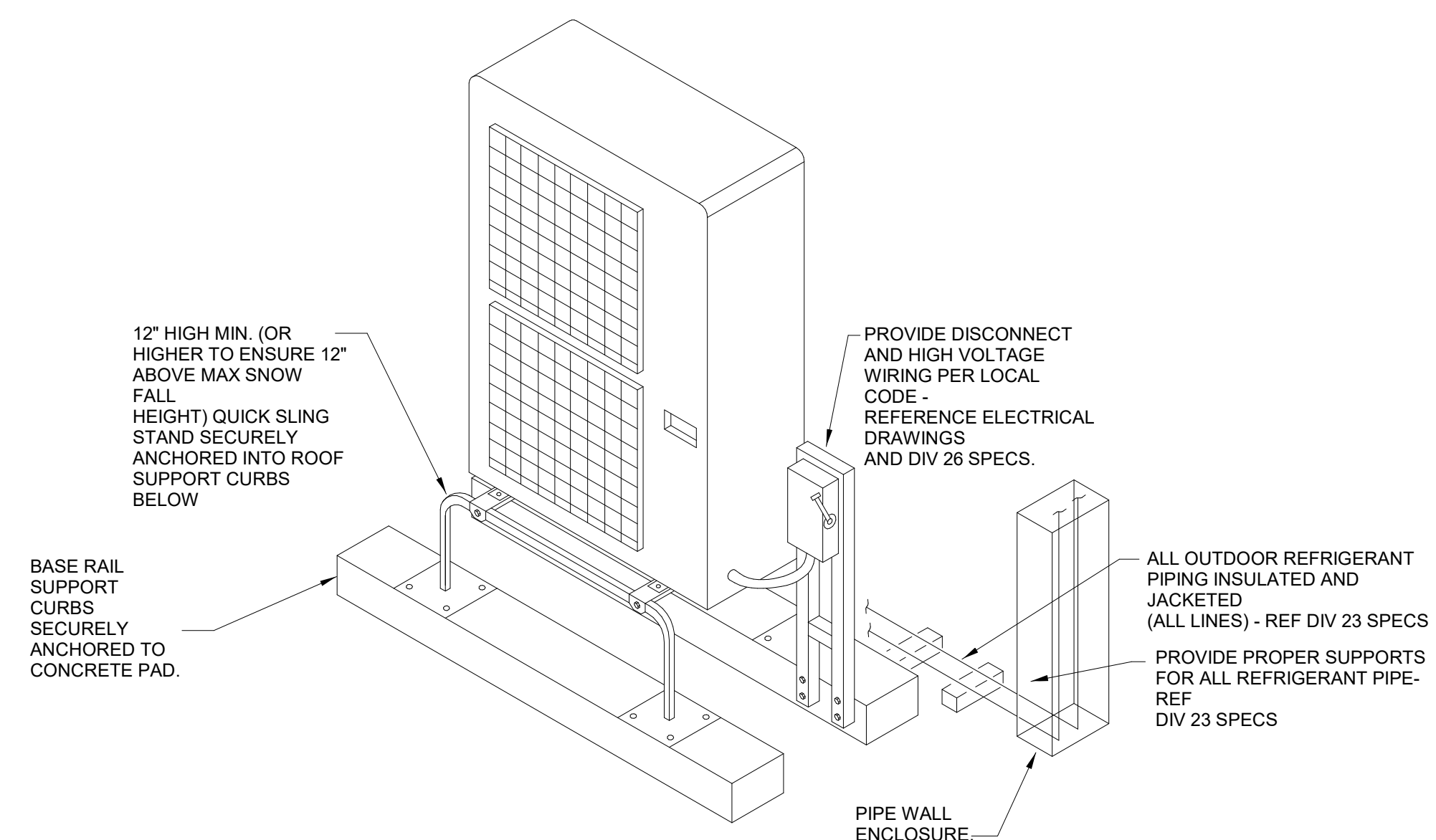
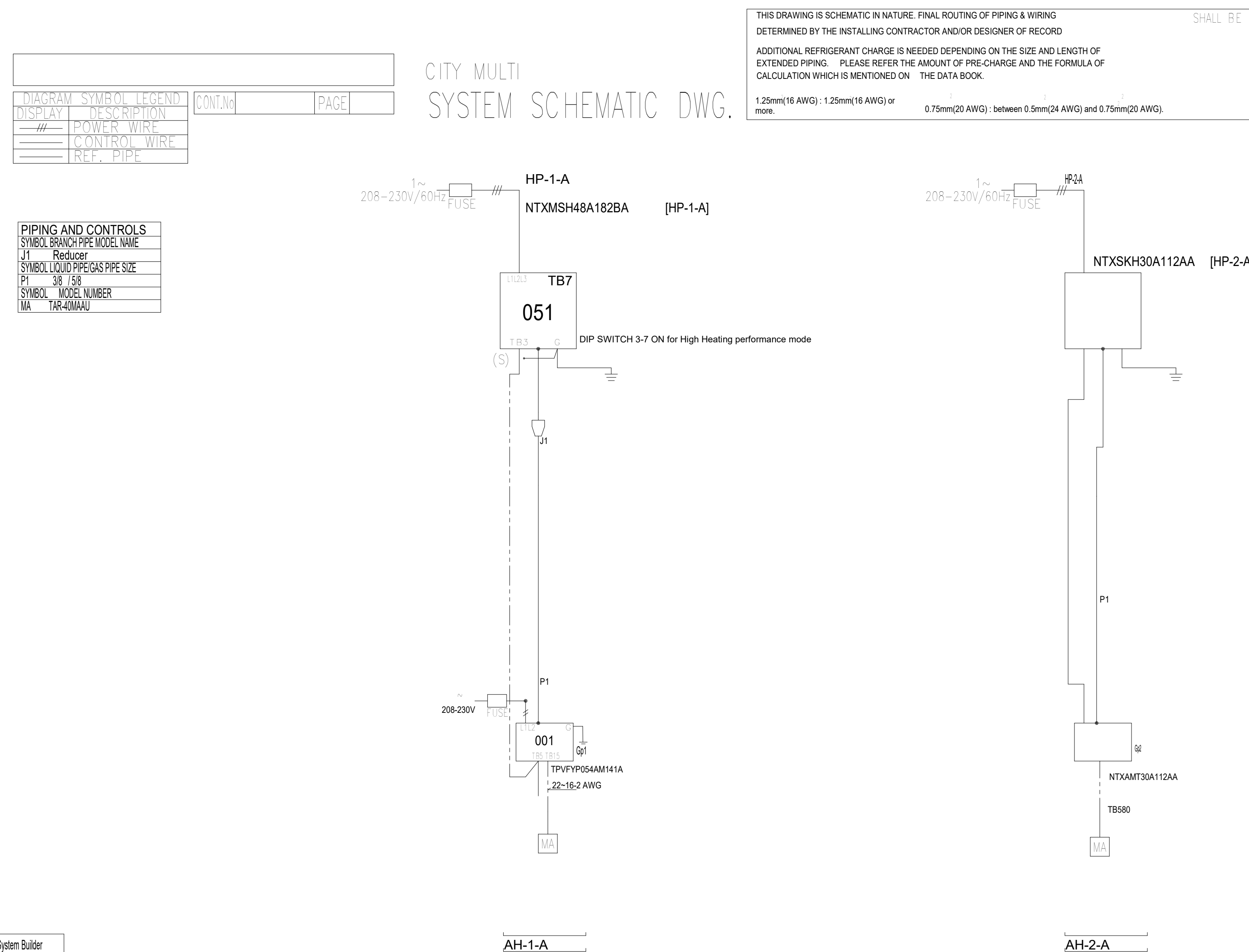
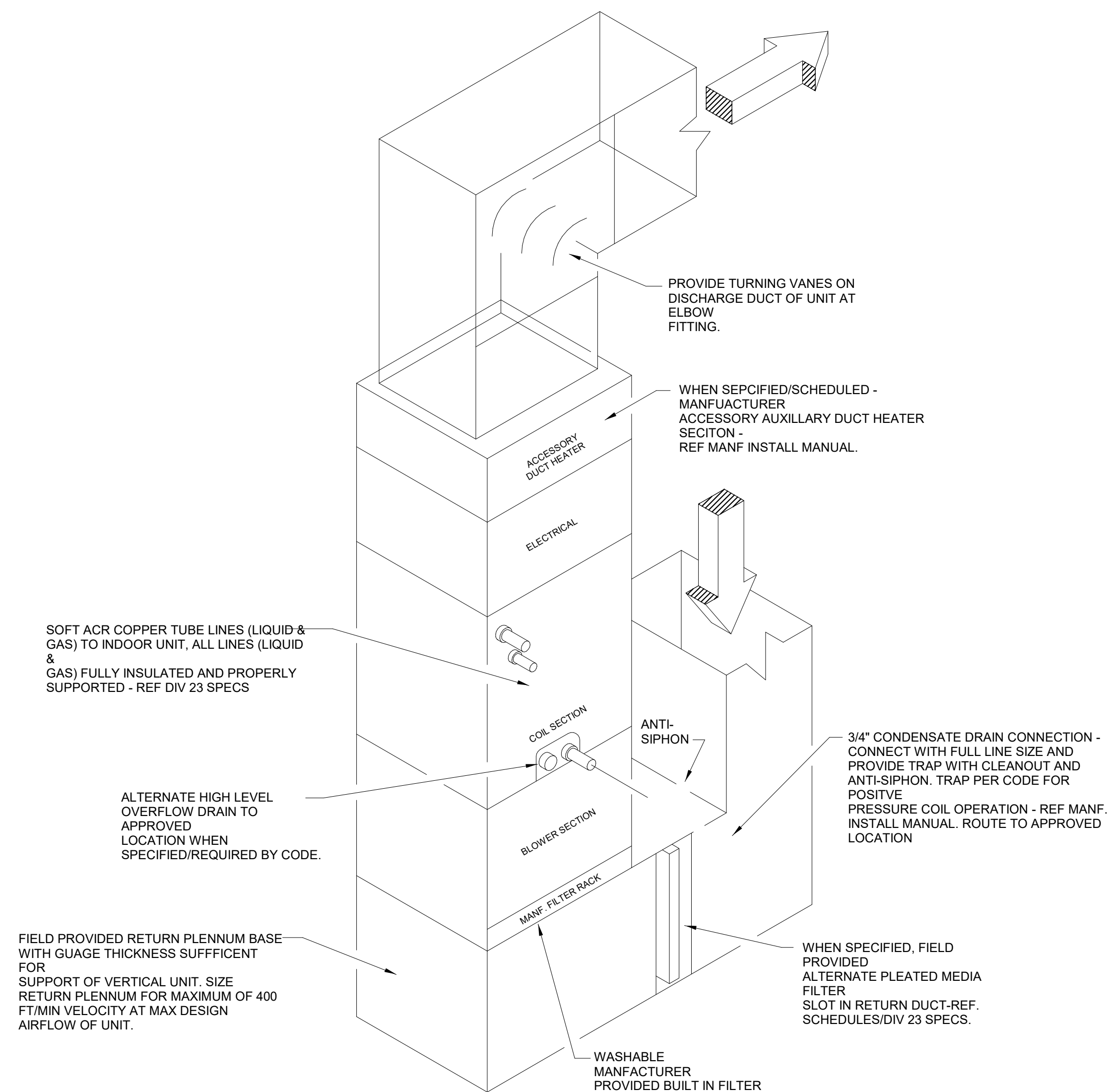
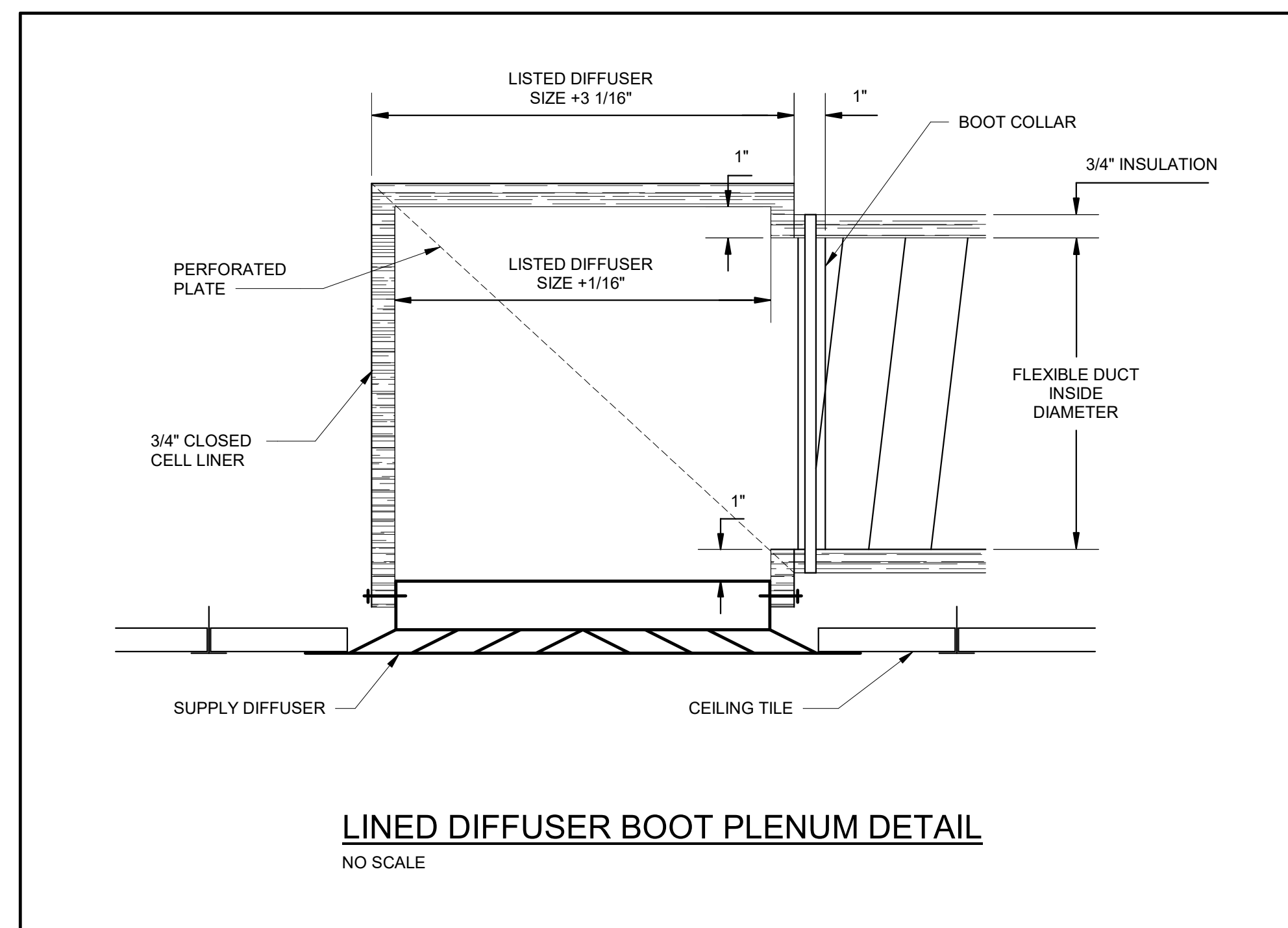
NOTES:

- 1) INDOOR UNIT POWERED BY OUTDOOR UNIT
- 2) * EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI
- * ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE. THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
- * FACTORY REPRESENTATIVES SHALL REVIEW THE PROJECT PRIOR TO AND THROUGHOUT THE INSTALLATION OF CITY MULTI EQUIPMENT.
- * FACTORY REPRESENTATIVES SHALL STARTUP AND COMMISSION CITY MULTI EQUIPMENT UPON COMPLETION OF EQUIPMENT INSTALLATIONS.
- * FACTORY REPRESENTATIVES SHALL PROVIDE ON-SITE ASSISTANCE FOR THE BMS INTEGRATION OF THE CITY MULTI EQUIPMENT.
- * FACTORY REPRESENTATIVES SHALL PROVIDE END-USER TRAINING ON THE CITY MULTI EQUIPMENT UPON COMPLETION OF THE INSTALLATION OF EQUIPMENT.

HEATERS

DIFFUSERS

REGISTERS



PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
BG	BELOW GRADE
EX	EXISTING
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
ST	STORM SEWER
OST	EMERGENCY STORM SEWER OVERFLOW
AW	ACID WASTE PIPING
GW	GREASE LADEN WASTE DRAIN PIPING
VTR	VENT THRU ROOF
CO	CLEANOUT
WC	WATER CLOSET
UR	URINAL
LV	LAVATORY
SK	SINK
SHR	SHOWER
EWC	ELECTRIC WATER COOLER
DF	DRINKING FOUNTAIN
MB	MOP BASIN
FD	FLOOR DRAIN
RD	ROOF DRAIN
SS	SERVICE SINK

PLUMBING SYMBOL SCHEDULE

	NEW DOMESTIC COLD WATER PIPING
	NEW DOMESTIC HOT WATER PIPING
	NEW DOMESTIC HOT WATER CIRCULATING PIPING
	NEW DOMESTIC 140 HOT WATER PIPING
	NEW DOMESTIC 140 HOT WATER CIRCULATING PIPING
	NEW NATURAL GAS PIPING
	NEW CONDENSATE PIPING
	NEW SANITARY DRAIN PIPING
	NEW ACID WASTE DRAIN PIPING
	FLOOR CLEANOUT
	WALL CLEANOUT
	NEW SANITARY VENT PIPING
	NEW ACID WASTE VENT PIPING
	NEW GREASE LADEN WASTE DRAIN PIPING
	VENT THRU ROOF
	NEW EMERGENCY OVERFLOW STORM WATER PIPING
	NEW STORM WATER PIPING
	RAIN WATER CONDUCTOR (STORM SEWER RISER)
	NEW ROOF DRAIN
	SHUT-OFF VALVE
	CHECK VALVE AND BALANCING VALVE

PLUMBING NOTES:

- INDIVIDUAL FIXTURE PIPING CONNECTION SIZES SHALL BE IN ACCORDANCE WITH PLUMBING FIXTURE SCHEDULE.
- ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR UNLESS OTHERWISE NOTED. ALL VENT LINES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. ALL WATER PIPING SHALL BE CONCEALED WHERE PHYSICALLY POSSIBLE.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE AND NATIONAL HAVING JURISDICTION.
- THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSURE A COMPLETE SYSTEM.
- THE CONTRACTOR SHALL THOROUGHLY COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
- THE CONTRACTOR SHALL SEAL ALL RESPECTIVE WALL, FLOOR, CEILING OR ROOF PENETRATIONS.
- THE PLUMBING CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE	VENT	HOT	COLD	DESCRIPTION	ELECTRIC	REMARKS
WC-1	WATER CLOSET	4"	2"	---	1"	FLOOR MTD, PRESS, ASSIST.	---	ADA
UR-1	URINAL	2"	2"	---	3/4"	WALL MTD, FLUSH VALVE, CARRIER	---	ADA
LV-1	LAVATORY	1-1/2"	1-1/2"	---	1/2"	MANUAL FAUCET, WALL MOUNTED, CARRIER	---	ADA MOUNTING, ASSE 1070 MIXING VALVE
SK-1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE BOWL, SPRAY FAUCET	---	ADA
IMB-1	ICE MAKER BOX	---	---	---	1/2"	ICE MAKER BOX W/ WHA	---	WATER HAMMER ARRESTORS
MB-1	MOP BASIN	3"	2"	---	3/4"	24" x 24"	---	---
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	---	1/2"	BI-LEVEL, WATER COOLER, WALL MOUNTED, BOTTLE FILLER, FILTER	120/1, 6 FLA	---
WH-1	WALL HYDRANT	---	---	---	3/4"	NONFREEZE WALL HYDRANT	---	---
YH-1	YARD HYDRANT	---	---	---	3/4"	NONFREEZE GROUND HYDRANT	---	---
FD-1	FLOOR DRAIN	3"	---	---	---	---	---	---

NOTES:

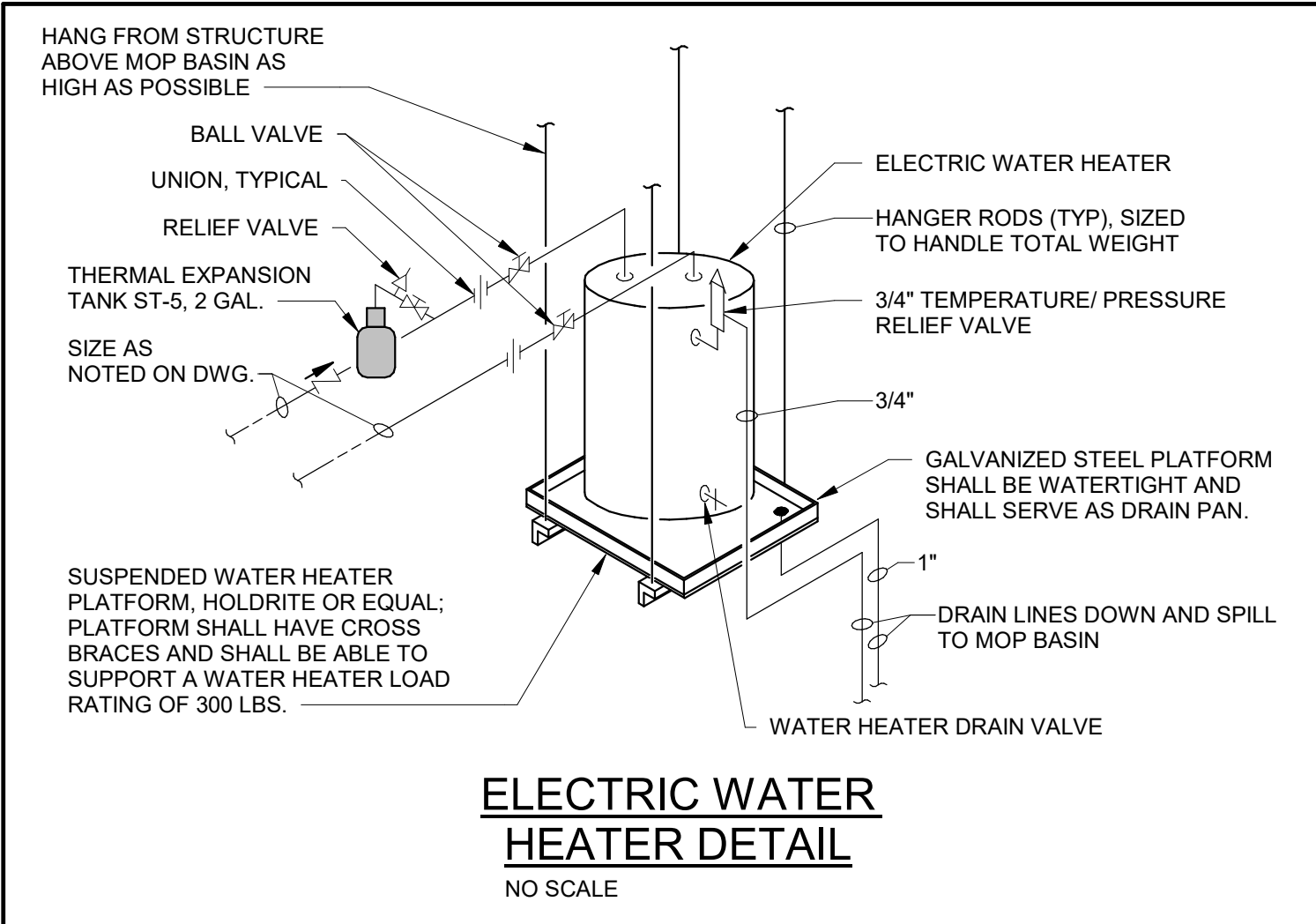
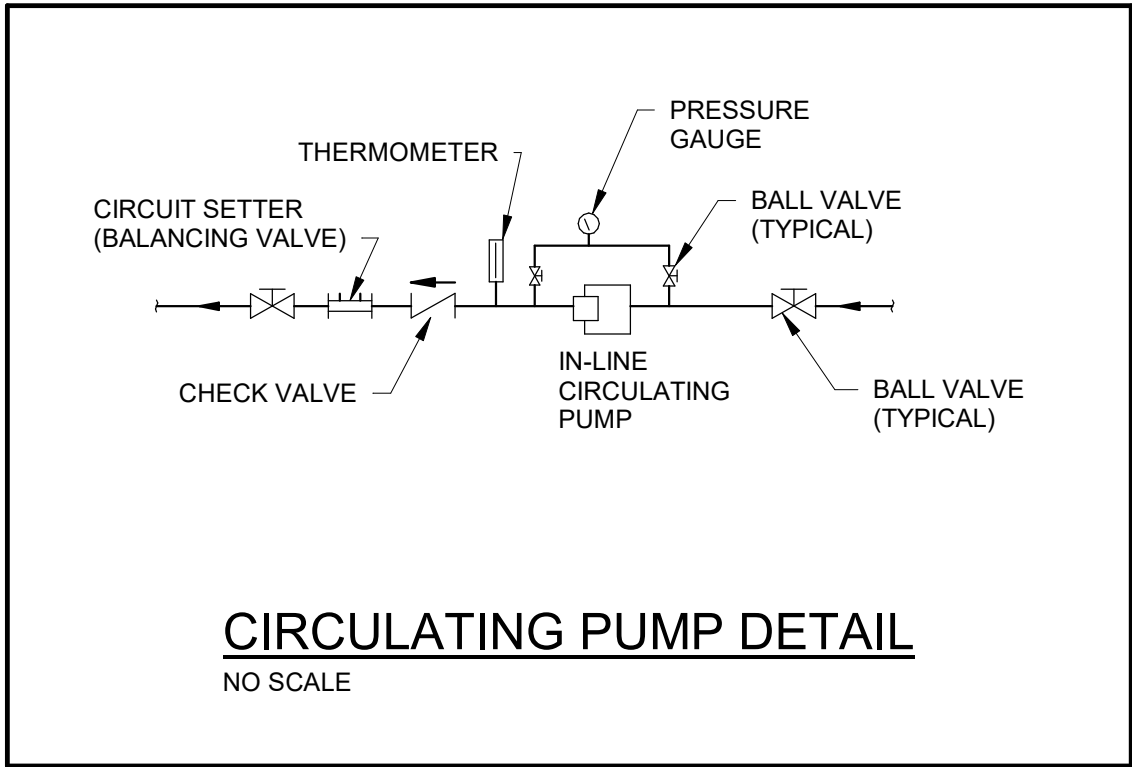
- ALL FIXTURES SHALL BE ROUGHED-IN IN ACCORDANCE WITH APPROVED SHOP DRAWING REQUIREMENTS SET FORTH BY THE MANUFACTURER.
- COORDINATE INSTALLATION OF FIXTURES WITH ALL TRADES.
- ALL FIXTURES SHALL BE INSTALLED WITH SHUTOFF VALVES ON THE HOT AND COLD LINES FOR SERVICE.

DOMESTIC WATER HEATER

SYMBOL	TYPE	VOL. GAL.	GPH @ 90 F	KW	VOLTAGE	MANUF.	MODEL	REMARKS
DWH-1	TANK	10	14	3.0	240 / 1	A.O. SMITH	DEL	

CIRCULATING PUMPS

SYMBOL	DESCRIPTION	GPM	FT HD	WATTS	AMPS	DRIVE	VOLTAGE	MANUF.	MODEL	REMARKS
CP-1	DOMESTIC HOT WATER RETURN	1.5	16	70	1.02	ECM	120 / 1	B&G	ECOCIRC+ 20-18	STAINLESS STEEL, NSF 61



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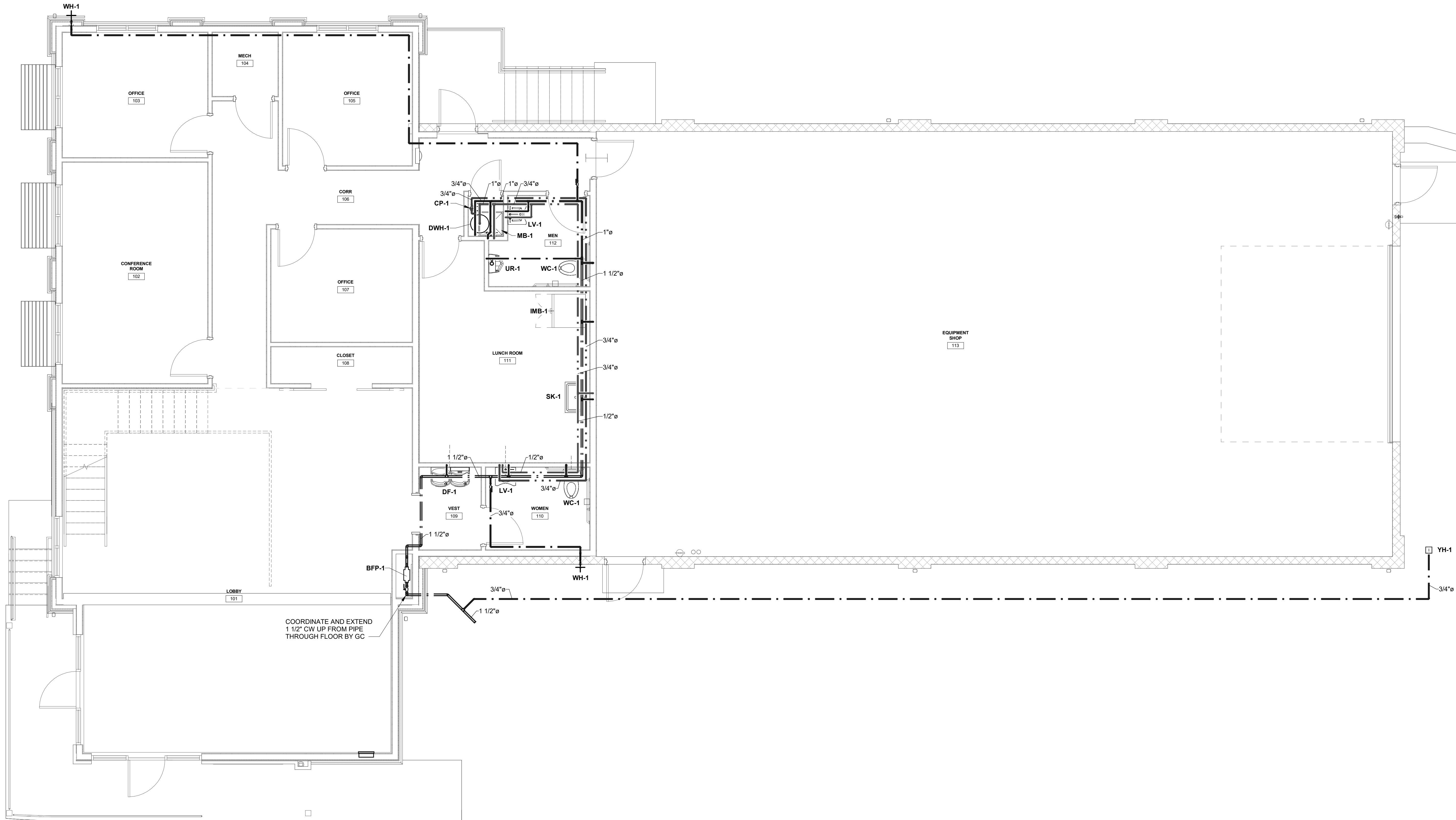
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Drawn By: Author
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NOTES,
SYMBOLS,
ABBREVIATIONS,
DETAILS AND
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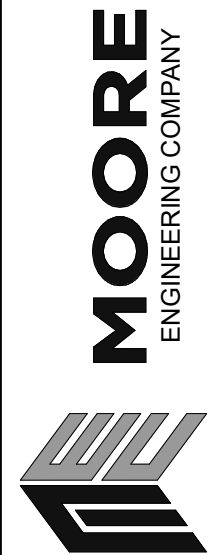
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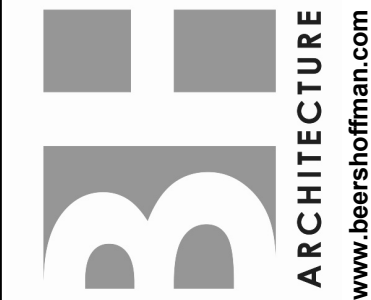


① FIRST FLOOR PLAN - DOMESTIC WATER
1/4" = 1'-0"

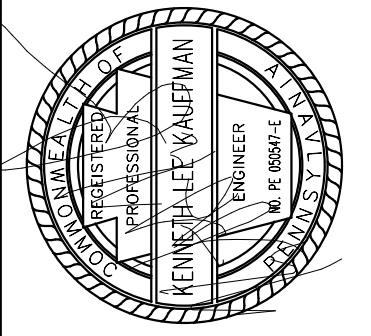
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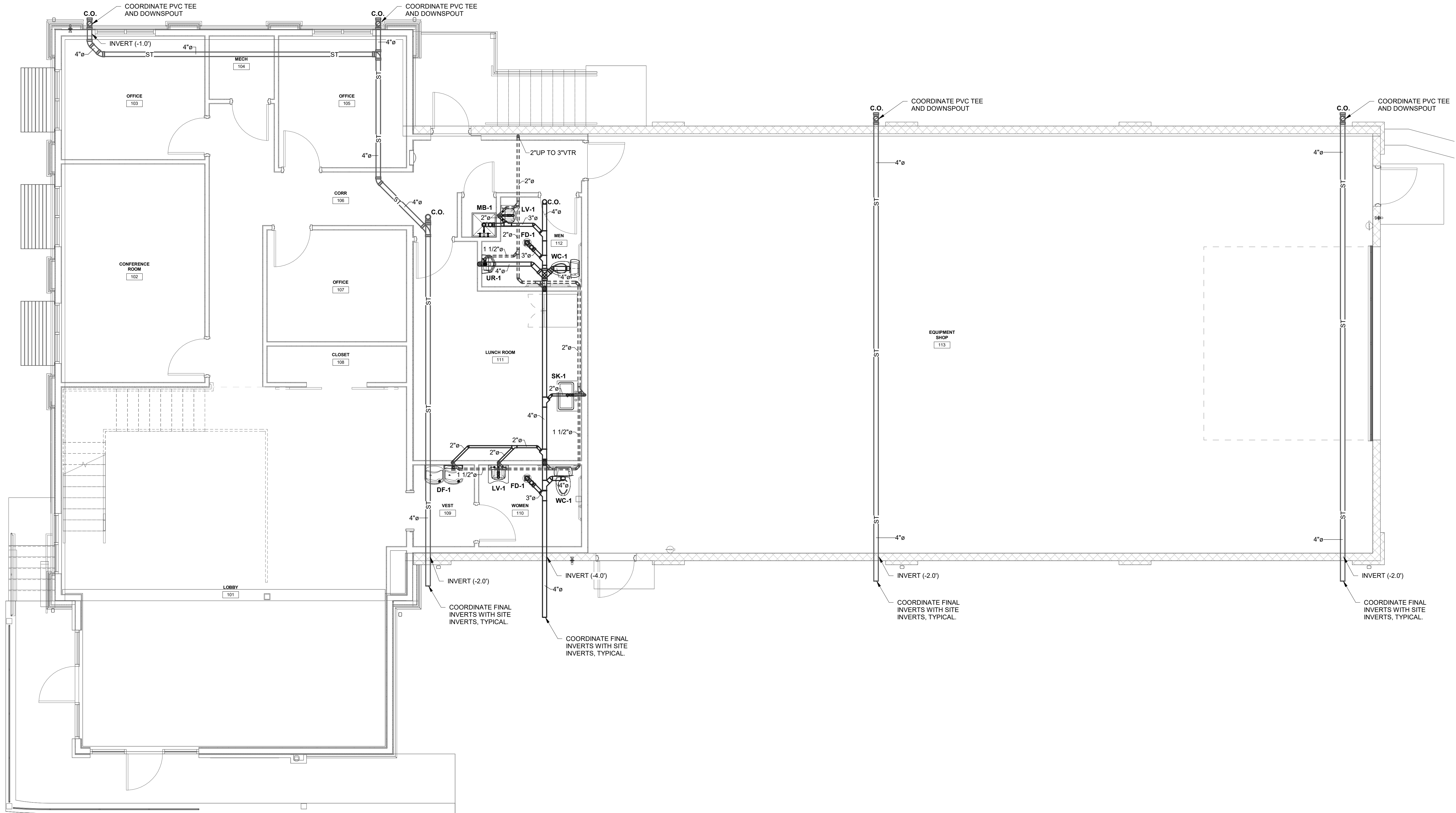
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FIRST FLOOR
PLAN -
DOMESTIC

Sheet Number:
P101

BH JOB NO. 23-015



1 FIRST FLOOR PLAN - SANITARY
1/4" = 1'-0"

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FIRST FLOOR
PLAN -
SANITARY AND
VENT

Sheet Number:
P102

BH JOB NO. 23-015

RECEPTACLES/FLOORBOXES/POWER POLES

SYMBOL	DESCRIPTION
	120V DUPLEX RECEPTACLE
	120V DUPLEX RECEPTACLE - CEILING MOUNTED
	120V QUAD RECEPTACLE
	120V QUADPLEX RECEPTACLE - CEILING MOUNTED
	120V SIMPLEX RECEPTACLE
	120V DUPLEX RECEPTACLE - TOP HALF SWITCHED
	120V DUPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER
	120V QUADPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER
	14-50R RANGE RECEPTACLE WITH MATCHING PLUG AND CORD
	14-30R DRYER RECEPTACLE WITH MATCHING PLUG AND CORD
	SIMPLEX RECEPTACLE WITH NEMA CONFIGURATION AS NOTED
	120V RECEPTACLES CORD/REEL HUNG FROM WALL/CEILING UNLESS OTHERWISE NOTED
	208V/240V CORD/REEL HUNG FROM WALL/CEILING - PROVIDE WITH NEMA RECEPTACLE TO MATCH EQUIPMENT CORD/PLUG
	RECESSED MULTI-SERVICE FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED
	MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED
	FLOOR BOX/POKE-THRU FOR FURNITURE FEED
	PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED
	RECESSED MULTI-SERVICE FLUSH FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED
	MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED
	PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED
	FLUSH FLOOR BOX/POKE-THRU FOR RECEPTACLE AND DATA DEVICES INDICATED
	MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED
	FLOOR BOX/POKE-THRU FOR FURNITURE FEED AND DATA DEVICES INDICATED
	POWER POLE FOR MOUNTING DEVICES INDICATED (HEIGHT AS REQUIRED)
	HAND DRYER
	RANGE HOOD
	DISHWASHER

RECEPTACLES - ATTRIBUTES

B	MOUNTED HORIZONTALLY IN BASEBOARD KICK SPACE
H	HOSPITAL GRADE DEVICE INSTALLED PER NEC ARTICLE 517 FOR HEALTH CARE FACILITIES
GF	INTEGRAL GROUND FAULT
IG	ISOLATED GROUND
SI	INTEGRAL SURGE PROTECTION, ISOLATED GROUND
SP	INTEGRAL SURGE PROTECTION
TR	TAMPER RESISTANT (CHILD PROOF)
WC	DEDICATED FOR WATER COOLER, MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE WATER COOLER TRANSFORMER
VM	DEDICATED FOR VENDING MACHINE
M	MICROWAVE RECEPTACLE. REFER TO ARCHITECTURAL ELEVATION FOR HEIGHT/LOCATION
L	GROUND FAULT RECEPTACLE FOR LAVATORY TRANSFORMER, MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE LAVATORY TRANSFORMER
WP	WEATHERPROOF IN-USE COVER
00"	MOUNT AT HEIGHT TO CENTER INDICATED
•	MOUNT AT 8" ABOVE COUNTER
XP	EXPLOSION PROOF
U	DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGER
4U	4 PORT USB CHARGER RECEPTACLE
SP/P	INTEGRAL SURGE PROTECTION, MOUNTED AT PROJECTOR HEIGHT (VERIFY WITH OWNER)
SP/T	INTEGRAL SURGE PROTECTION, MOUNTED AT TELEVISION HEIGHT (VERIFY WITH OWNER)

TELECOMMUNICATIONS OUTLETS

SYMBOL	DESCRIPTION
	REFER TO DETAIL DRAWINGS FOR OUTLET TYPES

TELECOMMUNICATIONS - ATTRIBUTES

00"	MOUNT AT HEIGHT TO CENTER INDICATED
•	MOUNT AT 8" ABOVE COUNTER
C#	COMPUTER OUTLET - # INDICATES NUMBER OF JACKS
TS	TEACHER STATION
P	PROJECTOR OUTLET
PS	PRESENTER STATION
TV	TELEVISION OUTLET

WIRING

SYMBOL	DESCRIPTION
	CONDUIT & WIRE
	CONDUIT & WIRE UNDERFLOOR OR UNDERGROUND
	HOME RUN WITH PANEL & CIRCUIT NUMBER NOTED
	MULTIPLE SWITCHED CIRCUITS FED FROM SAME HOME RUN
	UNDERGROUND
	OVERHEAD
	NORMAL/EMERGENCY CIRCUIT
	CONDUIT DOWN
	CONDUIT UP
	END OF CONDUIT

INTERCOMMASTER CLOCK/SOUND SYSTEMS

SYMBOL	DESCRIPTION
	1 MICROPHONE INLET
	MICROPHONE INLETS ON ONE PLATE (QUANTITY AS INDICATED)
	CEILING MOUNTED HANGING MICROPHONE INLET
	1 FLOOR MOUNTED MICROPHONE INLET
	FLOOR MOUNTED MICROPHONE INLETS (QUANTITY AS INDICATED)
	AUXILIARY INPUT JACK
	LOCAL SOUND WALL MOUNTED SPEAKER
	LOCAL SOUND CEILING MOUNTED SPEAKER
	PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER
	PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER, NON IP BASED
	PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER
	PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER, NON IP BASED
	WALL MOUNTED EXTERIOR SPEAKER
	VOLUME CONTROL
	MONITOR SPEAKER JACK
	CALL SWITCH
	CLOCK/SPEAKER COMBINATION
	WALL CLOCK
	DUAL FACE CLOCK
	MIXER REMOTE CONTROL WITH AUXILIARY JACK IN CABINET
	TOUCH SCREEN CONTROLLER IN CABINET
	DISPLAY OUTPUT
	PROJECTOR OUTPUT
	VIDEO INPUT
	WIRELESS ANTENNA/ASSISTIVE LISTENING ANTENNA

VIDEO SURVEILLANCE/ACCESS CONTROL SYSTEM

SYMBOL	DESCRIPTION
	ACCESS SYSTEM CARD READER
	INTRUSION DETECTION SYSTEM KEYPAD
	HANDICAP (ADA) DOOR OPERATOR PUSH PAD
	INTRUSION DETECTION SYSTEM WALL MOUNTED MOTION DETECTOR
	INTRUSION DETECTION SYSTEM CEILING MOUNTED MOTION DETECTOR
	INTRUSION DETECTION SYSTEM WALL MOUNTED AUDIO SOUNDER
	CEILING MOUNTED CAMERA
	WALL MOUNTED CAMERA
	360 DEGREE CEILING MOUNTED CAMERA
	REQUEST TO EXIT DEVICE
	ELECTRIC STRIKE FOR DOOR ACCESS SYSTEM
	GLASS BREAK SENSOR - CEILING MOUNTED UNLESS OTHERWISE INDICATED
	ACCESS/INTRUSION SYSTEM DOOR CONTACT
	DOOR HARDWARE PACKAGE PER SPECIFICATIONS. PROVIDE 3/4" CONDUIT AND WIRING TO ALL EQUIPMENT SHOWN IN THE HARDWARE SETS/SCHEDULES, DRAWINGS, AND AS NEEDED FOR ALL ASSOCIATED SYSTEMS. DOOR SHALL OPERATE AS DESCRIBED IN THE NOTES OF THE SPECIFICATIONS AND THE PROJECTS REQUIREMENTS.
	INTERCOM/CAMERA ENTRANCE STATION
	INTERCOM/CAMERA MASTER STATION
	DOOR RELEASE PUSH BUTTON STATION
	DOOR LOCKDOWN PUSH BUTTON STATION
	MAGNETIC RELEASE BUTTON STATION

POWER DISTRIBUTION AND CONTROL

SYMBOL	DESCRIPTION
	PUSH-BUTTON STATION
	EMERGENCY PUSHBUTTON
	EMERGENCY PUSHBUTTON WITH KEY RESET
	GAS VALVE SHUTOFF
	FUSED DISCONNECT SWITCH
	MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD DEVICE
	LOCAL DISCONNECT SWITCH- SINGLE OR 2 POLE AS REQUIRED
	CONTACTOR
	MOTOR STARTER (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED)
	COMBINATION STARTER & DISCONNECT SWITCH (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED)
	MOTOR
	MOTORIZED BLEACHER MOTOR BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED COILING DOOR MOTOR BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED DIVIDER CURTAIN BY GC. PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED FOLDING PARTITION BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED DOCK LEVELER BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED MAT MOIST BY GC. PROVIDE FUSED DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED OVERHEAD DOOR BY GC. PROVIDE LOCAL DISCONNECT/RECEPTACLE AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED PROJECTION SCREEN BY GC. PROVIDE LOCAL DISCONNECT AND CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT
	MOTORIZED WHEELCHAIR LIFT BY GC. PROVIDE FUSED DISCONNECT, CONTROL/SAFETY WIRING REQUIRED IN 3/4" CONDUIT AND CATEGORY 6 CABLE TO BUILDING DEMARC IN 3/4" CONDUIT
	MOTORIZED SHADE CONTROLLER BY GC. PROVIDE LOW/LINE VOLTAGE BOXES/WIRING/CONDUIT AS REQUIRED. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
	MOTORIZED BASKETBALL BACKSTOP RAISE/LOWER MOTOR BY GC. PROVIDE EXTRA HARD USAGE FLEXIBLE CORD, TWIST LOCK CORD CONNECTOR, MATCHING TWIST LOCK RECEPTACLE AND FINAL CONNECTIONS TO MOTOR
	MOTORIZED BASKETBALL BACKSTOP HEIGHT ADJUSTER MOTOR BY GC. PROVIDE EXTRA HARD USAGE FLEXIBLE CORD, TWIST LOCK CORD CONNECTOR, MATCHING TWIST LOCK RECEPTACLE AND FINAL CONNECTIONS TO MOTOR
	HORIZONTAL SURFACE RACEWAY WITH MATCHING VERTICAL RACEWAY TO ABOVE CEILING FOR DEVICES SHOWN OR INDICATED
	RECESSED PANELBOARD
	SURFACE PANELBOARD
	JUNCTION BOX
	CONDUCTOR
	TRANSFORMER AS SCHEDULED
	METER
	CABLE TRAY

LIGHTING

SYMBOL	DESCRIPTION
	LUMINAIRE - CEILING MOUNTED
	LUMINAIRE - CEILING MOUNTED - NORMAL & EMERGENCY CIRCUITS
	LUMINAIRE - CEILING MOUNTED - EMERGENCY ONLY
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE - NORMAL & EMERGENCY CIRCUITS
	FLOOD OR SPOT LUMINAIRE
	WALL MOUNTED LUMINAIRE - EMERGENCY ONLY
	WALL MOUNTED FLOOD OR SPOT LUMINAIRE - EMERGENCY ONLY
	REMOTE HEADS - HEADS AS SCHEDULED OR INDICATED
	EMERGENCY BATTERY UNIT - HEADS AS SCHEDULED OR INDICATED
	CEILING MOUNTED EXIT SIGN - FACES INDICATED BY SHADING
	CEILING MOUNTED EXIT SIGN - HEADS AS SCHEDULED OR INDICATED
	WALL MOUNTED EXIT SIGN - FACES INDICATED BY SHADING
	WALL MOUNTED BATTERY EXIT SIGN - HEADS AS SCHEDULED OR INDICATED
	LUMINAIRE
	LUMINAIRE - NORMAL & EMERGENCY CIRCUITS

LINE VOLTAGE SWITCHING

SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH
	DOUBLE POLE SWITCH
	THREE - WAY SWITCH
	FOUR - WAY SWITCH
	KEY OPERATED SINGLE POLE SWITCH
	KEY OPERATED THREE - WAY SWITCH
	KEY OPERATED FOUR - WAY SWITCH
	EXPLOSION PROOF SINGLE POLE SWITCH
	SINGLE POLE DIMMER SWITCH
	THREE - WAY DIMMER SWITCH
	INDICATOR SWITCH (ILLUMINATED WHEN ON)
	INDICATOR SWITCH (ILLUMINATED WHEN OFF)
	SINGLE BUTTON OCCUPANCY SENSOR SWITCH
	RAISE AND LOWER SWITCH PROVIDED WITH EQUIPMENT UNLESS OTHERWISE NOTED
	TWO BUTTON OCCUPANCY SENSOR SWITCH
	DIGITAL TIME SWITCH
	0-10V DIMMING SWITCH WITH INTEGRAL OCCUPANCY SENSOR

LOW VOLTAGE LIGHTING CONTROLS

SYMBOL	DESCRIPTION
	SINGLE BUTTON DIMMER LOW VOLTAGE DIGITAL WALL STATION
	SINGLE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH
	TWO BUTTON LOW VOLTAGE DIGITAL WALL SWITCH
	THREE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH
	FOUR BUTTON LOW VOLTAGE DIGITAL WALL SWITCH
	FIVE BUTTON / RAISE LOWER LOW VOLTAGE DIGITAL WALL SWITCH
	FIVE BUTTON / RAISE LOWER WIRELESS DIGITAL WALL SWITCH
	EIGHT BUTTON LOW VOLTAGE DIGITAL WALL SWITCH
	LOW VOLTAGE CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR
	WIRELESS CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR
	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR
	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR
	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS
	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS
	LOW VOLTAGE CEILING MOUNTED DIGITAL DAYLIGHT SENSOR
	WIRELESS CEILING MOUNTED DIGITAL DAYLIGHT SENSOR
	DIGITAL LIGHTING CONTROL SYSTEM - 1 RELAY ROOM CONTROLLER AND NETWORK BRIDGE, 0-10V DIMMING.
	DIGITAL LIGHTING CONTROL SYSTEM - 2 RELAY ROOM CONTROLLER AND NETWORK BRIDGE, 0-10V DIMMING.
	DIGITAL LIGHTING CONTROL SYSTEM - 3 RELAY ROOM CONTROLLER AND NETWORK BRIDGE, 0-10V DIMMING.
	DIGITAL LIGHTING CONTROL SYSTEM - 1 RELAY ROOM CONTROLLER AND NETWORK BRIDGE, UNIVERSAL DIMMING.
	DIGITAL LIGHTING CONTROL SYSTEM - 2 RELAY ROOM CONTROLLER AND NETWORK BRIDGE, UNIVERSAL DIMMING.
	DIGITAL PLUG LOAD ROOM CONTROLLER
	DIGITAL PARTITION CONTROL WITH SINGLE POLE SWITCH FOR CONTROL
	EMERGENCY LIGHTING CONTROL DEVICE
	BORDER ROUTER WITH POWER BOOSTER
	EXTERIOR DAYLIGHT SENSORS WITH INPUT MODULE
	LIGHTING CONTROL SYSTEM - SEGMENT MANAGER & ASSOCIATED EQUIPMENT WITH ENCLOSURE AND DATA CONNECTION
	LIGHTING CONTROL SYSTEM - NETWORK SWITCH WITH ENCLOSURE

SITE LIGHTING

SYMBOL	DESCRIPTION
	SINGLE LUMINAIRE ON POLE
	DOUBLE LUMINAIRE ON POLE
	TRIPLE LUMINAIRE ON POLE
	QUAD LUMINAIRE ON POLE
	BOLLARD (OR SMALL LUMINAIRE FOR WALKWAY)
	FLOOD LIGHT - MOUNT AS REQUIRED

FIRE ALARM

SYMBOL	DESCRIPTION
	PHOTOELECTRIC SMOKE DETECTOR - CEILING MOUNTED
	HEAT DETECTOR
	HIGH HEAT DETECTOR - CEILING MOUNTED
	DUCT SMOKE DETECTOR - WITH REMOTE TEST SWITCH
	IONIZATION SMOKE DETECTOR - CEILING MOUNTED
	CARBON DIOXIDE DETECTOR
	BEAM DETECTOR
	CARBON MONOXIDE DETECTOR
	SMOKE/CARBON MONOXIDE DETECTOR
	CEILING MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz)
	CEILING MOUNTED FIRE ALARM VISUAL DEVICE
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz)
	WALL MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz)
	WALL MOUNTED FIRE ALARM VISUAL DEVICE
	WALL MOUNTED FIRE AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz)
	WALL MOUNTED MANUAL PULL STATION
	RELAY AND/OR MONITORING DEVICE AS REQUIRED BY THE APPLICATION REQUIREMENTS
	KNOX BOX
	MAGNETIC DOOR HOLDER
	SPRINKLER PRESSURE SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SMOKE DAMPER
	WIRE GUARD
	PROTECTIVE COVER
	WEATHERPROOF
	AREA OF RESCUE ASSISTANCE PANEL
	AREA OF RESCUE ASSISTANCE REMOTE STATION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM SIGNAL EXTENDER PANEL
	FIRE ALARM LCD ANNUNCIATOR
	FIRE ALARM GRAPHIC / LCD ANNUNCIATOR
	FIRE ALARM COMMAND CENTER
	FIRE ALARM RECORD DOCUMENT BOX
	FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MUTING THE AUDIO SYSTEM
	FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR USE WITH THE MECHANICAL EQUIPMENT BUILDING MANAGMENT SYSTEM (BMS)
	FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MONITORING STAND-ALONE CLEAN AGENT FIRE SUPPRESSION SYSTEM
	FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MONITORING STAND-ALONE FIRE SUPPRESSION SYSTEMS USED IN DUST COLLECTION SYSTEM
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING ELEVATOR CONTROL
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING THE FIRE PUMP CONTROLLER/ATS
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING THE MOTORIZED SECURITY GATE OR FIRE DOOR
	FIRE ALARM ADDRESSABLE DEVICE AND ASSOCIATED WIRING FOR USE WITH THE MAGNETIC DOOR HOLD OPEN RELEASE
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR INPUT INTERFACE TO THE BUILDING INTRUSION SYSTEM AND/OR CARD ACCESS SYSTEM
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM AND CONTROLLING THE ASSOCIATED SUPPLY/EXHAUST FANS, GAS AND ELECTRICAL EQUIPMENT LOCATED BELOW THE KITCHEN HOOD
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR INTERFACE WITH THE LIGHTING CONTROL SYSTEM PANEL TO TURN ON DESIGNATED LIGHTING CIRCUITS.
	FIRE ALARM ADDRESSABLE MODULE DEVICES AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING THE ELEVATOR POWER CONTROL MODULE/DISCONNECT
	FIRE ALARM ADDRESSABLE DEVICE AND ASSOCIATED WIRING FOR MONITORING AND CONTROLLING A FIRE/SMOKE DAMPER
	FIRE ALARM ADDRESSABLE MODULE DEVICE AND ASSOCIATED WIRING FOR MISC. EQUIPMENT

GENERAL ELECTRICAL NOTES:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE NEC AND ALL LOCAL, STATE AND NATIONAL CODES.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
3. THERE WILL BE MULTIPLE LABOR AND INDUSTRY, TOWNSHIP, OWNER, ARCHITECT AND ENGINEER INSPECTIONS THAT WILL NEED TO BE SATISFIED BY THE ELECTRICAL CONTRACTOR.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, WHETHER SPECIFIED OR NOT, TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED. THE ELECTRICAL CONTRACTOR SHALL UNDER THE DIRECTION OF THE ARCHITECT, PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE PROTECTION RATING. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS.
6. NOT ALL SYMBOLS SHOWN ON THIS DRAWING ARE USED ON THIS PROJECT.
7. ONE OR MORE ATTRIBUTES MAY BE ADDED TO A BASIC SYMBOL TO SPECIFY ADDITIONAL REQUIREMENTS FOR THE DEVICE DESCRIBED BY THE BASIC SYMBOL.
8. REFER TO SPECIFICATIONS FOR PANELBOARD AND LUMINAIRE SCHEDULES.

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SYMBOL SCHEDULE

Sheet Number: **E100**
BH JOB NO. 23-015



- DRAWING NOTES:**

 1. ROOM CONTROLLER FOR CORRIDOR 106.
 2. ROOM CONTROLLER FOR CONFERENCE ROOM 102.
 3. ROOM CONTROLLER FOR LUNCH ROOM 111.
 4. ROOM CONTROLLER FOR LOBBY 101.
 5. WALL STATION CONTROLS LIGHTING IN EQUIPMENT SHOP 113 SHOWN ON SECOND FLOOR PLAN.
 6. CONNECT TO WALL MOUNTED STAIR LIGHTING.
 7. CONTROL FOR SITE LIGHTING. DUSK TO DAWN AND ASTRONOMICAL CLOCK CONTROL.

Sheet Number:
E101

BH JOB NO. 23-01

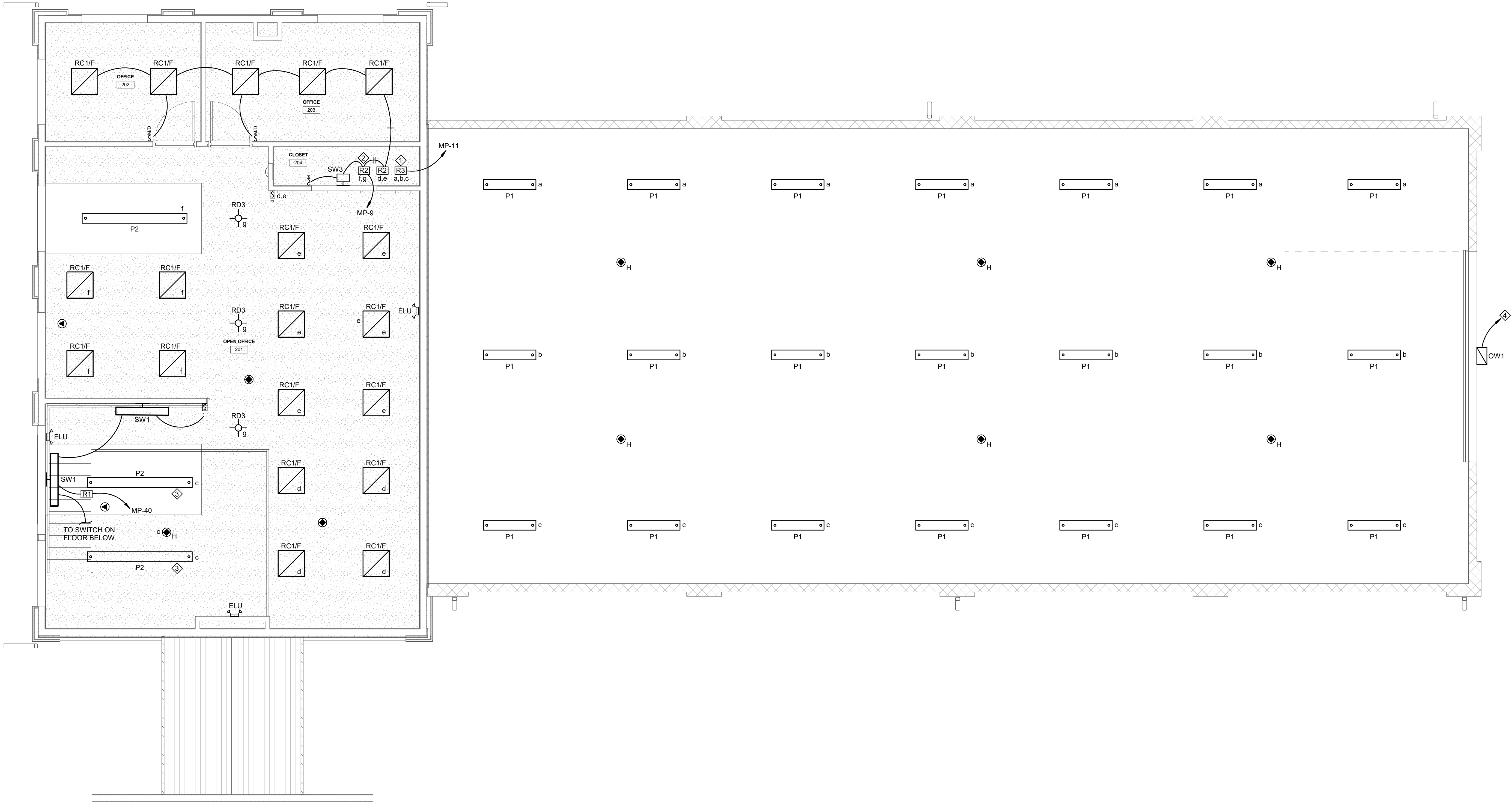


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GENERAL NOTES:

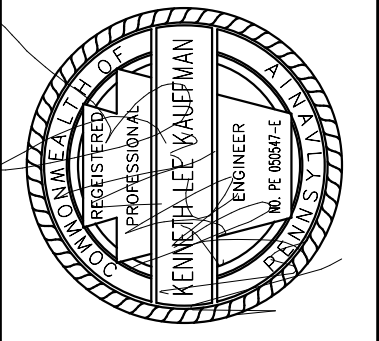
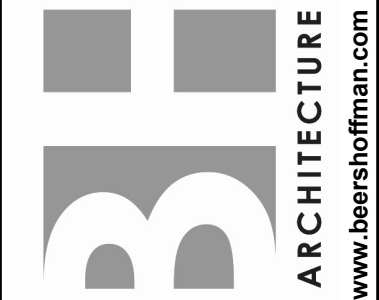
1. CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO LOCAL CIRCUIT AHEAD OF SWITCHING.
2. LOCATE ROOM CONTROLLERS IN UTILITY SPACES JUST BELOW HARD CEILING.

DRAWING NOTES:

1. ROOM CONTROLLERS FOR EQUIPMENT SHOP 113.
2. ROOM CONTROLLER FOR OPEN OFFICE 201.
3. CONTROLLED BY LOBBY 101 ROOM CONTROLLER.
4. CONNECT TO EXTERIOR LIGHTING CIRCUIT SHOWN ON E101.

1 SECOND FLOOR PLAN - LIGHTING
1/4" = 1'-0"

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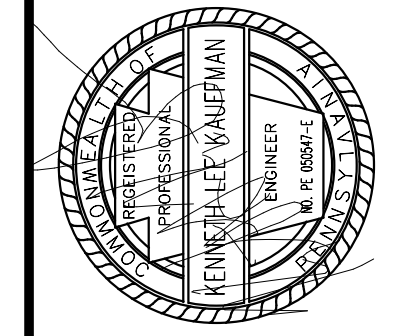
SECOND FLOOR
PLAN - LIGHTING

Sheet Number
E102

BH JOB NO. 23-015



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EAGLE BUILDING SOLUTIONS
OFFICE & EQUIPMENT SHOP BLDG
NORTH OAK STREET
LITITZ, PA 17543

NO.	DATE	RELEASE
Issue Date:		02/02/24
Drawn By:		AJJ
Checked By:		TET

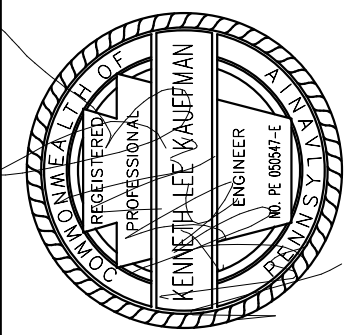
FIRST FLOOR
PLAN - POWER

Sheet Number:
E201

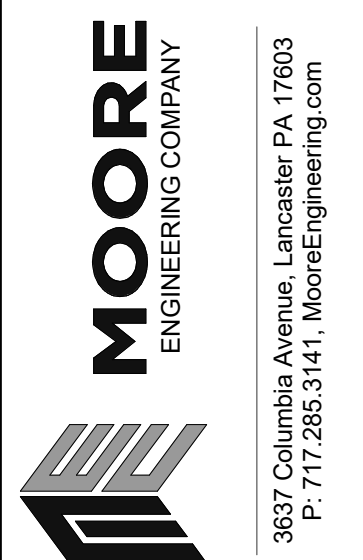
BH JOB NO. 23-015



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NO.	DATE	RELEASE
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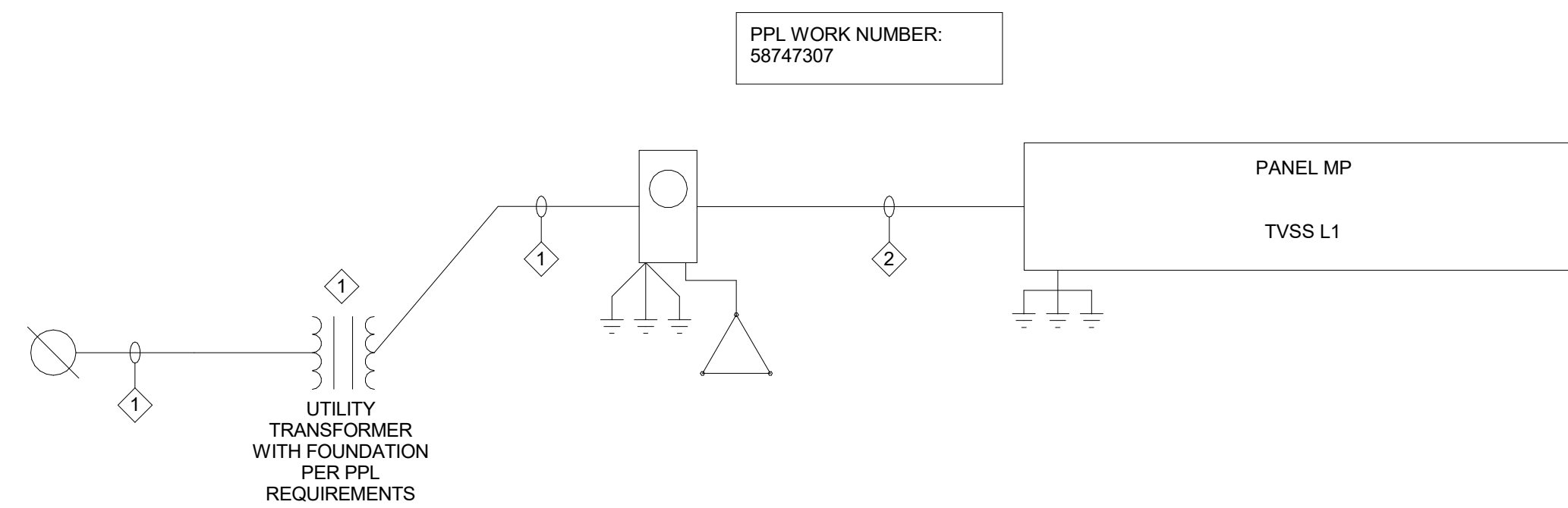
Issue Date:	02/02/24
Drawn By:	AJF
Checked By:	TET

SECOND FLOOR
PLAN - POWER

Sheet Number:

E202

BH JOB NO. 29-015



OFFICE & EQUIPMENT SHOP BUILDING - POWER RISER DIAGRAM

GENERAL NOTES:

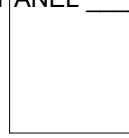
1. REFER TO SPECIFICATIONS FOR PANELBOARD SCHEDULES.

NOTES:

1. CONDUITS FOR UTILITY COMPANY PROVIDED UNDER SITE CONTRACT.
2. PROVIDE 3#600KCM + 1#3 GND IN 4" CONDUIT.

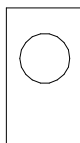
SYMBOL SCHEDULE

PANEL



PANEL BOARD, PROVIDE INTEGRAL EQUIPMENT WHEN INDICATED.

SELF CONTAINED UTILITY METERBASE



UTILITY POLE



UTILITY METER, COORDINATE EXACT LOCATION WITH UTILITY COMPANY REQUIREMENTS

PROVIDE A SEPARATE #3/0 GROUNDING CONDUCTOR TO EACH OF THE FOLLOWING:

- COUNTERPOISE
- FOUNDATION FOOTER REBAR
- UTILITY SIDE OF WATER METER SERVICE
- BUILDING STEEL

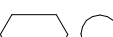
GROUND CONNECTION PER NEC



GROUNDING COUNTERPOISE SYSTEM PER SPECIFICATIONS



CIRCUIT CONDUCTOR REFERENCE



FEEDER CIRCUIT

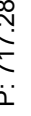


NO.	DATE	RELEASE
Issue Date:		02/02/24
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Checked By:		TET

POWER RISER DIAGRAM

Sheet Number:
E301

BH JOB NO.	23-015
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ENGINEERING COMPANY

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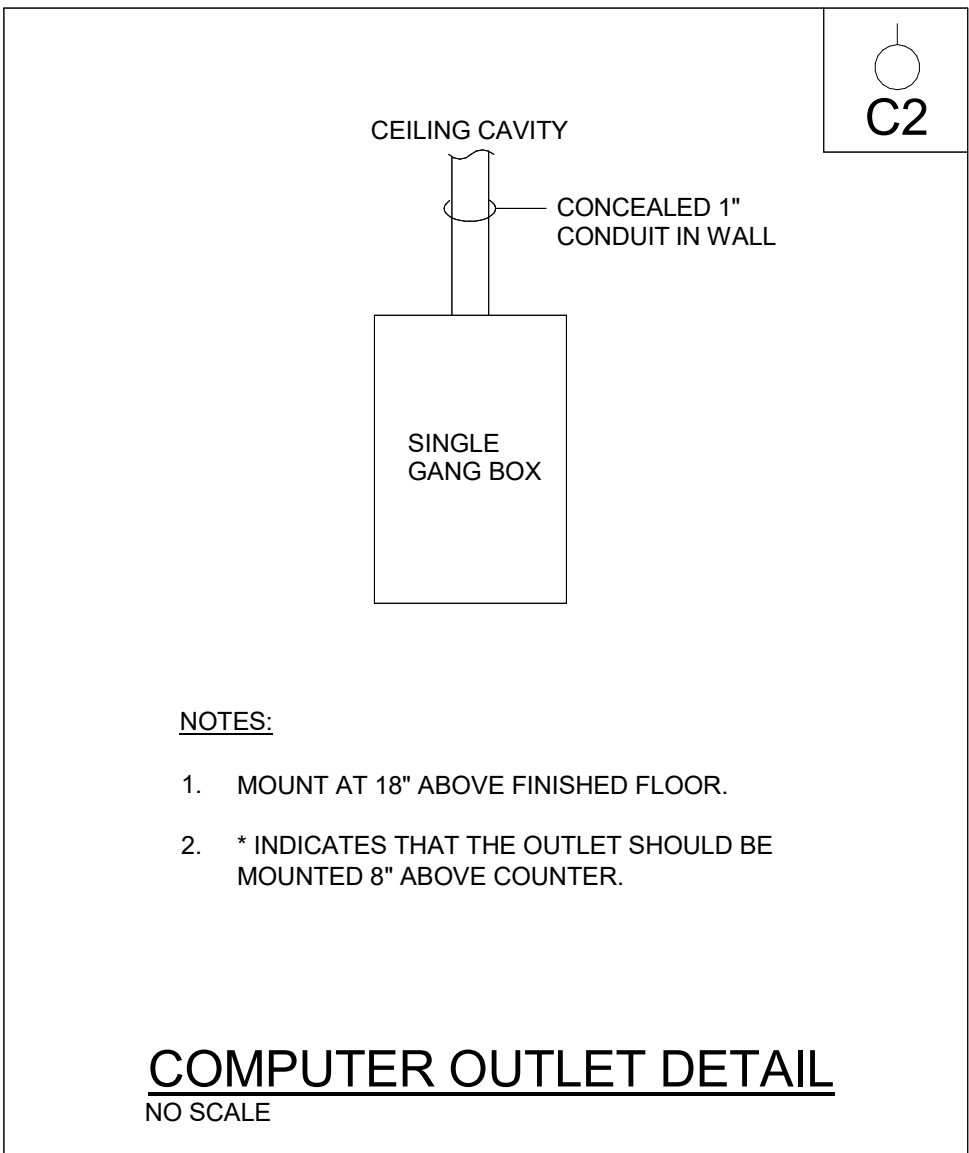
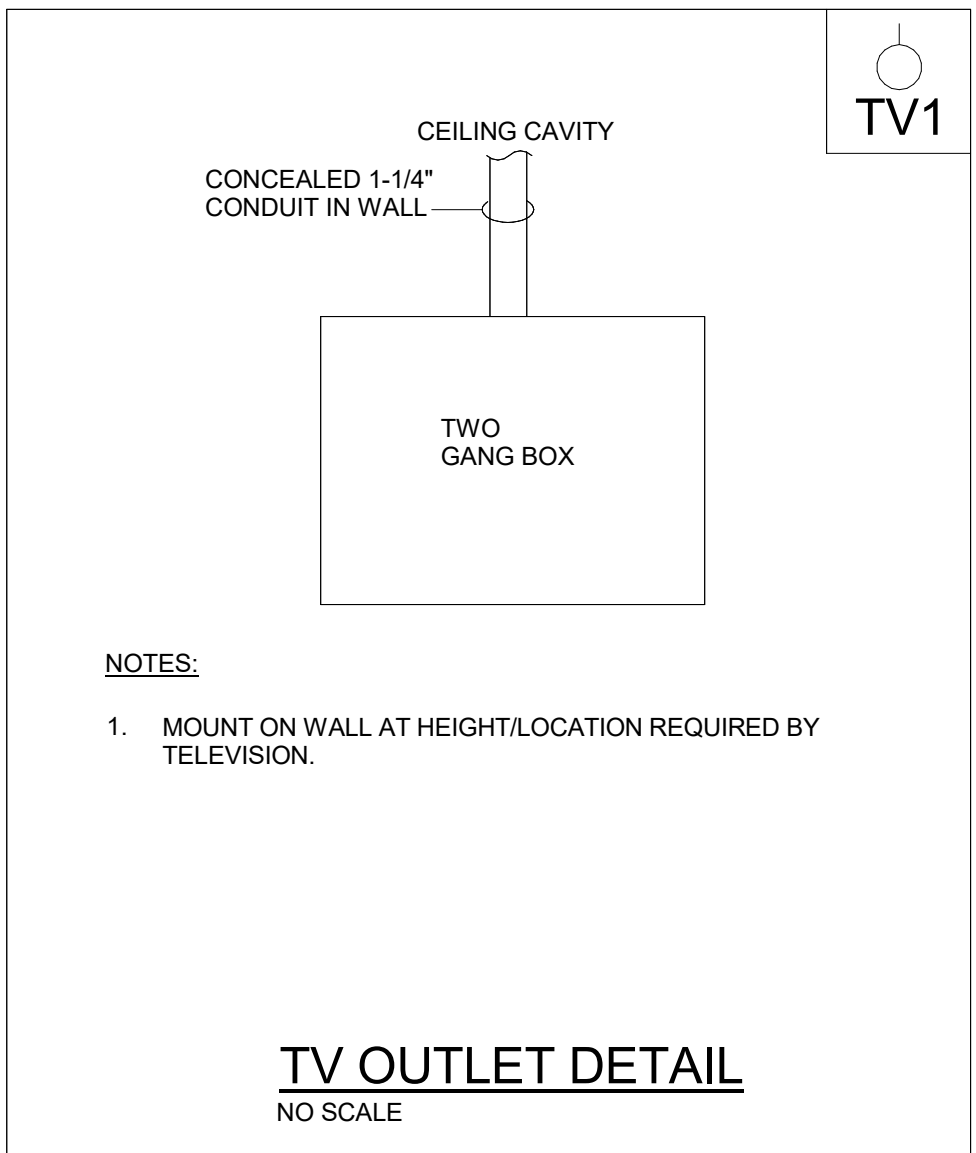
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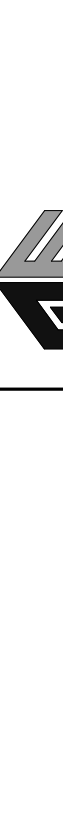
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GENERAL NOTE:

1. PROVIDE ROUGH-IN ONLY FOR ALL LOW VOLTAGE DEVICES. ALL OUTLET JACKS, WIRING , EQUIPMENT AND CONNECTIONS SHALL BE BY OWNER'S LOW VOLTAGE CONTRACTORS.

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NO.	DATE
Issue Date:	02/02/24
Drawn By:	THM
Checked By:	TEST
ELECTRICAL	DETAILS
Sheet Number:	E401
BY JOB NO.	25-01