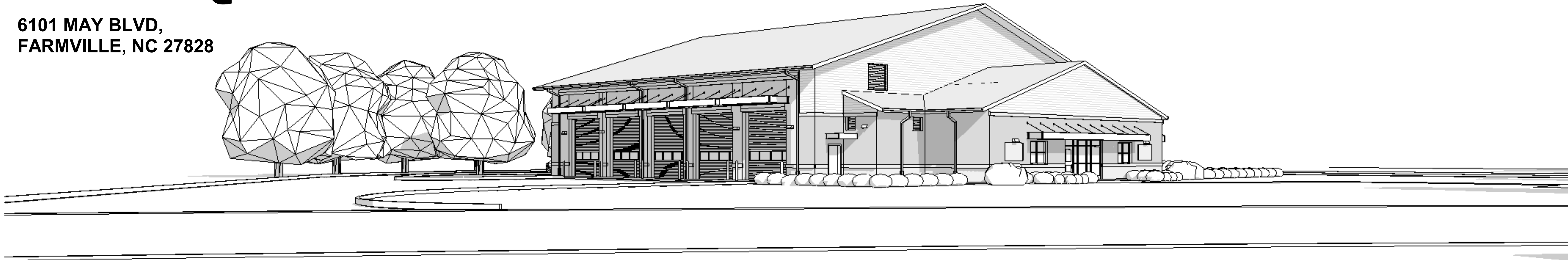


# TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS

6101 MAY BLVD,  
FARMVILLE, NC 27828



## VICINITY MAP

6101 May Blvd, Farmville, NC

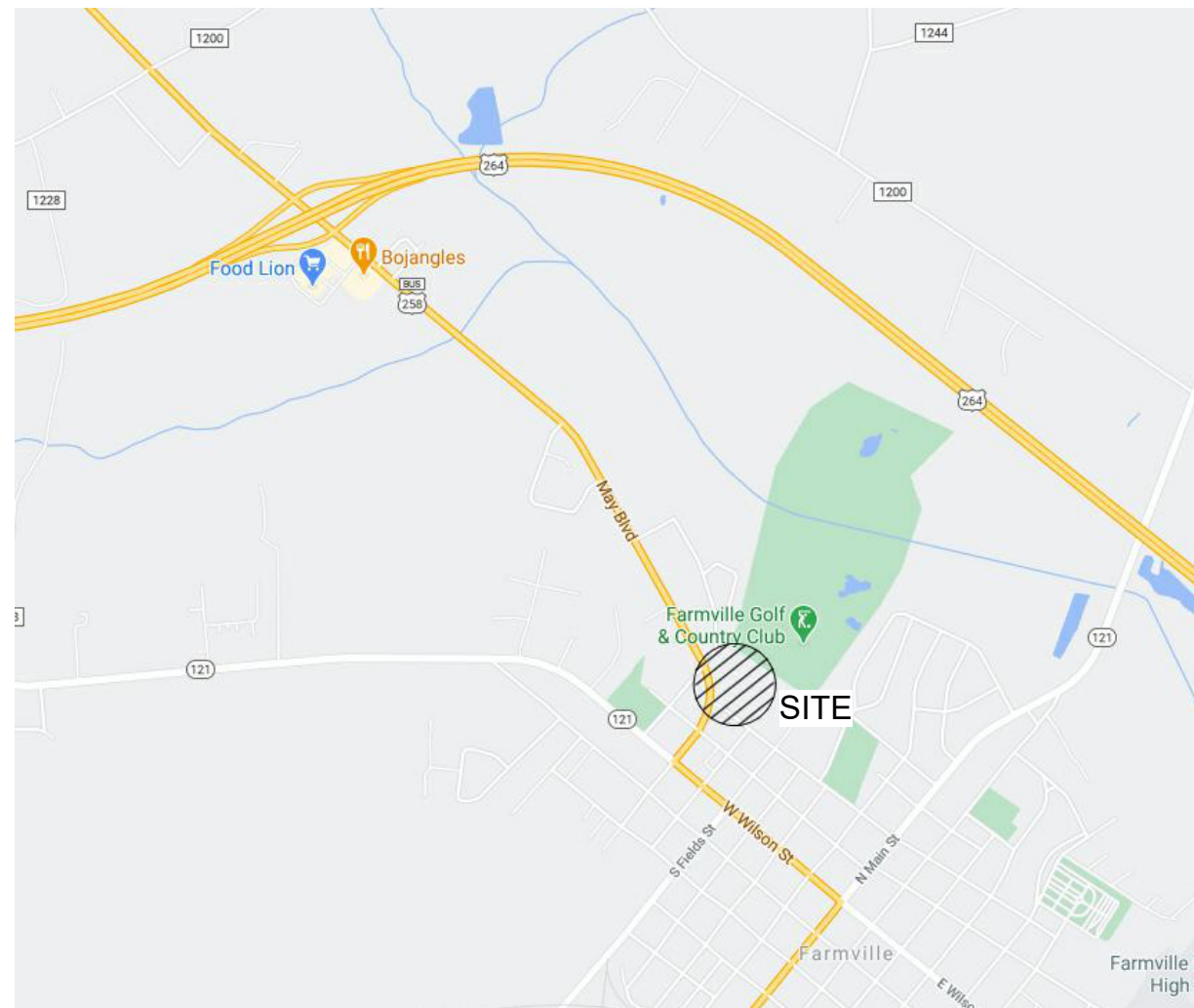


IMAGE REPRINTED FROM GOOGLE MAPS  
NTS

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SPRINKLER ALARM LEGEND, RISER, BDA SYSTEM  
SPRINKLER ALARM PLAN AND DETAIL

## ALTERNATES

ALTERNATE 01 - REPLACE ASPHALT SHINGLES ROOF WITH  
STANDING SEAM ROOF. ADD SNOW GUARDS AS SHOWN ON  
ROOF PLAN.  
SEE SHEETS A120, A318, A319, A320, A321.

ALTERNATE 02 - REPLACE SECTIONAL STEEL OVERHEAD DOORS  
AT APPARATUS BAYS WITH ALUMINUM GLASS OVERHEAD  
DOORS FOR DOOR 108.2, 108.3, 108.4, 108.5, 108.6, 108.9, 108.10,  
108.11, 108.12, AND 108.13.  
SEE SHEET A700 and SPECS 08 36 13.

ALTERNATE 03 - ADD PREFINISHED EXTRUDED ALUMINUM  
CANOPIES ABOVE APPARATUS BAY DOORS 108.2, 108.3, 108.4,  
108.5, 108.6, 108.9, 108.10, 108.11, 108.12, AND 108.13.  
SEE SHEETS A110, A120, A313



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## PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

## SEALS



## DKA JOB NUMBER

2015

## REVISIONS

NO.	DESCRIPTION

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PM: DK  
Drawn By: DK  
Plot Date: 6/17/2025 12:44:51 PM

## DATE ISSUED

BID SET

6/17/2025

## SHEET TITLE

TITLE SHEET

G001

# BID DOCUMENTS



APPENDIX B  
2018 BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS  
ADDRESS: 6101 MAY BOULEVARD ZIP CODE: 27828  
OWNER/AUTHORIZED AGENT: JUSTIN OAKES, INTERIM TOWN MANAGER PHONE #: 252-753-6720  
E-MAIL: JOAKES@FARMVILLENC.GOV  
OWNED BY: ☒ CITY/COUNTY ☐ PRIVATE ☐ STATE  
CODE ENFORCEMENT JURISDICTION: ☒ CITY ☐ COUNTY ☐ STATE  
NAME OF JURISDICTION: TOWN OF FARMVILLE

CONTACT: JIMMY ARDEL EDWARDS, ARCHITECT

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RETAINING WALLS >5' HIGH	-	-	-	-	-
OTHER	-	-	-	-	-
OTHER	-	-	-	-	-

YEAR EDITION OF CODE:

2018 NC BUILDING CODE: ☒ NEW BUILDING ☐ SHELL / CORE ☐ RENOVATION  
☐ ADDITION ☐ PHASED CONSTRUCTION - SHELL CORE ☐ 1ST TIME INTERIOR COMPLETIONS  
2018 NC EXISTING BUILDING CODE: ☐ PRESCRIPTIVE ☐ ALTERATION LEVEL I ☐ HISTORIC PROPERTY  
(CHECK ALL THAT APPLY) ☐ REPAIR ☐ ALTERATION LEVEL II ☐ CHANGE OF USE  
☐ CHAPTER 14 ☐ ALTERATION LEVEL III

CONSTRUCTED (DATE): BUSINESS (B), STORAGE (S-2)  
RENOVATED (DATE): PROPOSED OCCUPANCY(S) (CH. 3):  
OCCUPANCY CATEGORY (TABLE 1604.5): CURRENT: PROPOSED: FIRE STATION  
RISK CATEGORY (table 1604.5) Current: ☐ I ☐ II ☐ III ☐ IV  
Proposed: ☐ I ☐ II ☐ III ☒ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A  
☐ I-B ☒ II-B ☐ III-B ☐ V-B  
SPRINKLERS: ☐ NO ☐ PARTIAL ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D  
STANDPIPES: ☒ NO ☐ CLASS - I ☐ CLASS - II ☐ CLASS - III ☐ WET ☐ DRY  
PRIMARY FIRE DISTRICT: ☒ NO ☐ YES  
FLOOD HAZARD AREA: ☒ NO ☐ YES  
SPECIAL INSPECTIONS REQUIRED: ☐ NO ☒ YES

GROSS BUILDING AREA:	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
FLOOR			
4TH FLOOR	-	-	-
3RD FLOOR	-	-	-
2ND FLOOR	-	-	-
1ST FLOOR	0	11,972	11,972
TOTAL:	0	11,972	11,972

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):  
ASSEMBLY: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5  
BUSINESS: ☐ B  
EDUCATIONAL: ☐ E  
FACTORY: ☐ F-1 MODERATE ☐ F-2 LOW  
HAZARDOUS: ☐ H-1 DETONATE ☐ H-2 DEFLAGATE ☐ H-3 COMBUST ☐ H-4 HEALTH ☐ H-5 HPM  
INSTITUTIONAL: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4  
I-1 CONDITION ☐ 1 ☐ 2  
I-2 CONDITION ☐ 1 ☐ 2  
I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5  
MERCANTILE: ☐ M  
RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4  
STORAGE: ☐ S-1 MODERATE ☒ S-2 LOW ☐ HIGH-PILED ☐ ENCLOSED ☐ OPEN  
☐ PARKING GARAGE ☐ REPAIR GARAGE  
UTILITY AND MISC: ☐

ACCESSORY OCCUPANCY CLASSIFICATION(S): BUSINESS  
INCIDENTAL USES (TABLE 509): -  
THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).  
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): -  
SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS): -  
MIXED OCCUPANCY: NO SEPARATION: - EXCEPTION: -  
☐ NON-SEPARATED USE ( 508.3)  
☐ SEPARATED USE (508.4)  
$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>1</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2</sup>
1	APP BAY, STORE, RADIO RM	11,972	104,000	19,500	123,500
-	-	-	-	-	-
-	-	-	-	-	-

- 1 - Frontage area increases from Section 506.2 are computed thus:  
a. Perimeter which fronts a public way or open space having 20 feet minimum width =  $\frac{469'-6"}{469'-6"} (F)$   
b. Total Building Perimeter =  $\frac{469'-6"}{469'-6"} (P)$   
c. Ratio (F/P) =  $\frac{1}{30'-0"} (F/P)$   
d. Minimum Width of Public Way =  $\frac{30'-0"}{75\%} (W)$   
e. Percentage of frontage increase If =  $100[F/P - 0.25] \times W/30$  =  $\frac{30'-0"}{75\%} (%)$   
2 - Unlimited area applicable under conditions of Section 507.  
3 - Maximum Building Area = total number of stories in the building x D (506.2)  
4 - The maximum area of open parking garages must comply with 406.5.4. The maximum area of traffic control towers must comply with Table 412.3.1.  
5 - Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	75'-0"	38'-8"	-
BUILDING HEIGHT IN STORIES	4	1	-

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPAR DISTANCE (FEET)	REQ.	RATING PROVIDED (w/ *Reduction)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, TRUSSES)	-	0	0 HR	-	-	-	-
BEARING WALLS	-	-	-	-	-	-	-
EXTERIOR NORTH	>30'	0	0 HR	-	-	-	-
EXTERIOR EAST	>30'	0	0 HR	-	-	-	-
EXTERIOR WEST	>30'	0	0 HR	-	-	-	-
EXTERIOR SOUTH	>30'	0	0 HR	-	-	-	-
INTERIOR	-	0	0 HR	-	-	-	-
NONBEARING WALLS AND PARTITIONS	-	-	-	-	-	-	-
EXTERIOR NORTH	-	-	-	-	-	-	-
EXTERIOR EAST	-	-	-	-	-	-	-
EXTERIOR WEST	-	-	-	-	-	-	-
EXTERIOR SOUTH	-	-	-	-	-	-	-
INTERIOR WALLS AND PARTITIONS	-	0	0 HR	-	-	-	-
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0 HR	-	-	-	-	-
FLOOR CEILING ASSEMBLY	0	0 HR	-	-	-	-	-
COLUMNS SUPPORTING FLOORS	0	0 HR	-	-	-	-	-
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	0	0 HR	-	-	-	-	-
ROOF CEILING ASSEMBLY	0	0 HR	-	-	-	-	-
COLUMNS SUPPORTING ROOF	0	0 HR	-	-	-	-	-
SHAFT ENCLOSURES - EXIT	-	-	-	-	-	-	-
SHAFT ENCLOSURES - OTHER	-	-	-	-	-	-	-
CORRIDOR SEPARATION	-	-	-	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATION	-	-	-	-	-	-	-
PARTY / FIRE WALL SEPARATION	-	-	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	-	-	-	-	-	-
SMOKE PARTITION	-	-	-	-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION	-	-	-	-	-	-	-
INCIDENTAL USE SEPARATION	-	-	-	-	-	-	-

<sup>1</sup>Indicate section number permitting reduction

PERCENT OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH - >30'	UP, S	UNLIMITED	-
SOUTH - >30'	UP, S	UNLIMITED	-
EAST - >30'	UP, S	UNLIMITED	-
WEST - >30'	UP, S	UNLIMITED	-

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: ☐ NO ☒ YES  
EXIT SIGNS: ☐ NO ☒ YES  
FIRE ALARM: ☐ NO ☒ YES  
SMOKE DETECTION SYSTEMS: ☐ NO ☒ YES  
CARBON MONOXIDE DETECTION: ☐ NO ☒ YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET: G004 - LIFE SAFETY PLANS  
☒ FIRE AND / OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)  
☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN), SEE SHEET C100.  
☒ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)  
☒ OCCUPANCY TYPE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)  
☒ OCCUPANT LOADS FOR EACH AREA  
☒ EXIT ACCESS TRAVEL DISTANCES (1017)  
☒ COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))  
☒ DEAD END LENGTHS (1020.4)  
☐ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR  
☒ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)  
☒ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR  
☐ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR / CEILING AND / OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION AND SUPPORTING CONSTRUCTION FOR A FIRE BARRIER/ FIRE PARTITION/ SMOKE BARRIER - N/A  
☒ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)  
☐ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7) - N/A  
☐ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9) - N/A  
☐ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - N/A  
☐ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) - N/A  
☒ THE SQUARE FOOTAGE OF EACH FIRE AREA (202)  
☐ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.4) - N/A  
☐ NOTE ANY CODE EXCEPTION OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE.

SECTION/ TABLE/ NOTE	TITLE
-	-
-	-
-	-

ACCESSIBLE DWELLING UNITS (SECTION 1107) - N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1106)

LOT OR AREA PARKING	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	TOTAL # OF PARKING SPACES			TOTAL ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESSIBLE ISLE	VAN SPACE WITH 132" ACCESSIBLE AISLE	8' ACCESSIBLE AISLE	
SITE	-	36	1	-	1	2
-	-	-	-	-	-	-
TOTAL	-	36	1	-	1	2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE/ EXISTING	-	-	-	-	-	-	-	-	-	-
NEW	-	-	2	-	-	-	2	1	1	1
REQUIRED	-	-	2	-	-	-	2	-	1	1

SPECIAL APPROVALS

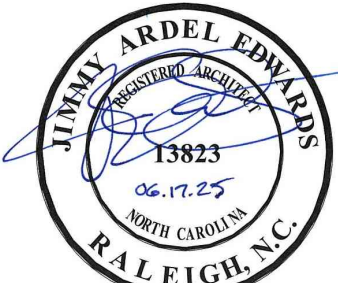
SPECIAL APPROVAL REQUIRED: ☐ NO ☒ YES  
☒ LOCAL JURISDICTION ☐ OSC ☐ DHHS  
☐ DEPARTMENT OF INSURANCE ☐ DPI ☐ OTHER: N/A  
DESCRIPTION: TOWN OF FARMVILLE



PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS


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PM: DK  
Drawn By: DK  
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6/17/2025

SHEET TITLE  
CODE SUMMARY

G002



APPENDIX B  
2018 BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

ENERGY SUMMARY

ENERGY REQUIREMENTS:  
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: -

EXEMPT BUILDING (PROVIDE CODE OR STATUTORY REFERENCE): -

CLIMATE ZONE: ☒ 3A ☐ 4A ☐ 5A  
METHOD OF COMPLIANCE: Energy Code: ☒ Prescriptive ☐ Performance  
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

(IF "OTHER", SPECIFY SOURCE HERE) -

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY) Architectural Asphalt Shingles or Standing Seam Metal Roof with air gap and underlayment, over 1/2" glass-mat sheathing, over 5" Polyiso Insulation, over Thermal Barrier on Metal Deck, over Cold Formed Metal Trusses.

ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)  
DESCRIPTION OF ASSEMBLY: \_\_\_\_\_  
U-VALUE OF TOTAL ASSEMBLY: \_\_\_\_\_ 0.0312  
R-VALUE OF INSULATION: \_\_\_\_\_ R-25ci  
SKYLIGHTS IN EACH ASSEMBLY: \_\_\_\_\_  
U-VALUE OF SKYLIGHT: \_\_\_\_\_ N/A  
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: \_\_\_\_\_ N/A

EXTERIOR WALLS (EACH ASSEMBLY) Brick Veneer or Metal panel system, Air Space, Rigid Insulation, Air Barrier on CMU Block walls

DESCRIPTION OF ASSEMBLY: \_\_\_\_\_  
U-VALUE OF TOTAL ASSEMBLY: \_\_\_\_\_ -  
R-VALUE OF INSULATION: \_\_\_\_\_ R-13+R-7.5ci  
OPENINGS (WINDOWS OR DOORS WITH GLAZING)  
U-VALUE OF ASSEMBLY: \_\_\_\_\_ 0.45 MAX  
SOLAR HEAT GAIN COEFFICIENT: \_\_\_\_\_ 0.25 MAX  
PROJECTION FACTOR: \_\_\_\_\_ Less than 0.25  
DOOR R-VALUES: \_\_\_\_\_ 0.77 MAX (Entrance); 0.45 MAX (Not Entrance)

WALLS BELOW GRADE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: \_\_\_\_\_ N/A  
U-VALUE OF TOTAL ASSEMBLY: \_\_\_\_\_ -  
R-VALUE OF INSULATION: \_\_\_\_\_ -

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: \_\_\_\_\_ N/A  
U-VALUE OF TOTAL ASSEMBLY: \_\_\_\_\_ -  
R-VALUE OF INSULATION: \_\_\_\_\_ -

FLOORS SLAB ON GRADE

DESCRIPTION OF ASSEMBLY: \_\_\_\_\_ 4" or 8" Concrete Slab on Vapor Retarder on Grade  
U-VALUE OF TOTAL ASSEMBLY: \_\_\_\_\_ 0.1  
R-VALUE OF INSULATION: \_\_\_\_\_ R-15  
HORIZONTAL / VERTICAL REQUIREMENT: \_\_\_\_\_ To Top of Footing  
SLAB HEATED: \_\_\_\_\_ NO

STRUCTURAL DESIGN SUMMARY

SEE SHEET S001 FOR ADDITIONAL INFORMATION

DESIGN LOADS

IMPORTANCE FACTORS

SNOW (Is): \_\_\_\_\_ 1.2  
SEISMIC (Ie): \_\_\_\_\_ 1.5

LIVE LOADS

ROOF (PSF): \_\_\_\_\_ 20 PSF  
MEZZANINE (PSF): \_\_\_\_\_ 125 PSF  
FLOOR (PSF): \_\_\_\_\_ 100 PSF TYP., 250 PSF APPARATUS BAYS

GROUND SNOW LOAD (PSF): \_\_\_\_\_ 10 PSF

WIND LOAD

BASIC WIND SPEED (MPH) (ASCE-7): \_\_\_\_\_ 99 MPH  
EXPOSURE CATEGORY: \_\_\_\_\_ C

SEISMIC DESIGN CATEGORY:

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS

RISK CATEGORY (TABLE 1604.5): ☐ I ☐ II ☐ III ☒ IV

SPECTRAL RESPONSE ACCELERATION:

Ss \_\_\_\_\_ 0.129 %g  
S1 \_\_\_\_\_ 0.065 %g

SITE CLASSIFICATION (ASCE 7): ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

DATA SOURCE: ☐ Field Test ☒ Presumptive ☐ Historical Data

BASIC STRUCTURAL SYSTEM:

☒ Bearing Wall ☐ Dual w/ Special Moment Frame  
☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel  
☐ Moment Frame ☐ Inverted Pendulum

ANALYSIS PROCEDURE:

☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ☐ Yes ☐ No

LATERAL DESIGN CONTROL:

☒ Earthquake ☐ Wind

SOIL BEARING CAPACITIES (PSF):

Field Test (psf) \_\_\_\_\_ 2,000 psf  
Presumptive Bearing Capacity (psf) \_\_\_\_\_ -  
Pile Size, Type and Capacity \_\_\_\_\_ -

MECHANICAL DESIGN SUMMARY

SEE SHEET M001 FOR ADDITIONAL INFORMATION

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE 3A

WINTER DRY BULB: \_\_\_\_\_ 22°F  
SUMMER DRY BULB: \_\_\_\_\_ 96°F

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB: \_\_\_\_\_ 70°F  
SUMMER DRY BULB: \_\_\_\_\_ 74°F  
RELATIVE HUMIDITY: \_\_\_\_\_ 50%

BUILDING HEATING LOAD: \_\_\_\_\_ 21.8 MBH

BUILDING COOLING LOAD: \_\_\_\_\_ 40.5 MBH (3.4 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT: \_\_\_\_\_  
HEATING EFFICIENCY: \_\_\_\_\_  
COOLING EFFICIENCY: \_\_\_\_\_  
SIZE CATEGORY OF UNIT: \_\_\_\_\_  
SEE SCHEDULES ON SHEET M200

BOILER

SIZE CATEGORY. IF OVERSIZED, STATE REASON: \_\_\_\_\_ N/A

CHILLER

SIZE CATEGORY. IF OVERSIZED, STATE REASON: \_\_\_\_\_ N/A

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET M200

ELECTRICAL DESIGN SUMMARY

SEE SHEET E001 FOR ADDITIONAL INFORMATION

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: Energy Code: ☒ Prescriptive ☐ Performance  
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE - SEE SCHEDULE ON SHEET E200  
NUMBER OF LAMPS IN THE FIXTURE - SEE SCHEDULE ON SHEET E200  
BALLAST TYPE USED IN THE FIXTURE - SEE SCHEDULE ON SHEET E200  
NUMBER OF BALLASTS IN THE FIXTURE - SEE SCHEDULE ON SHEET E200  
TOTAL WATTAGE PER FIXTURE - SEE SCHEDULE ON SHEET E200  
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) 3750 VS 7260  
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 1118 VS 3850

ADDITIONAL EFFICIENCY PACKAGE OPTIONS  
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE  
☒ C406.3 REDUCED LIGHING POWER DENSITY  
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS  
☐ C406.5 ON-SITE RENEWABLE ENERGY  
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM  
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING



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PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DESCRIPTION

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Drawn By: DK  
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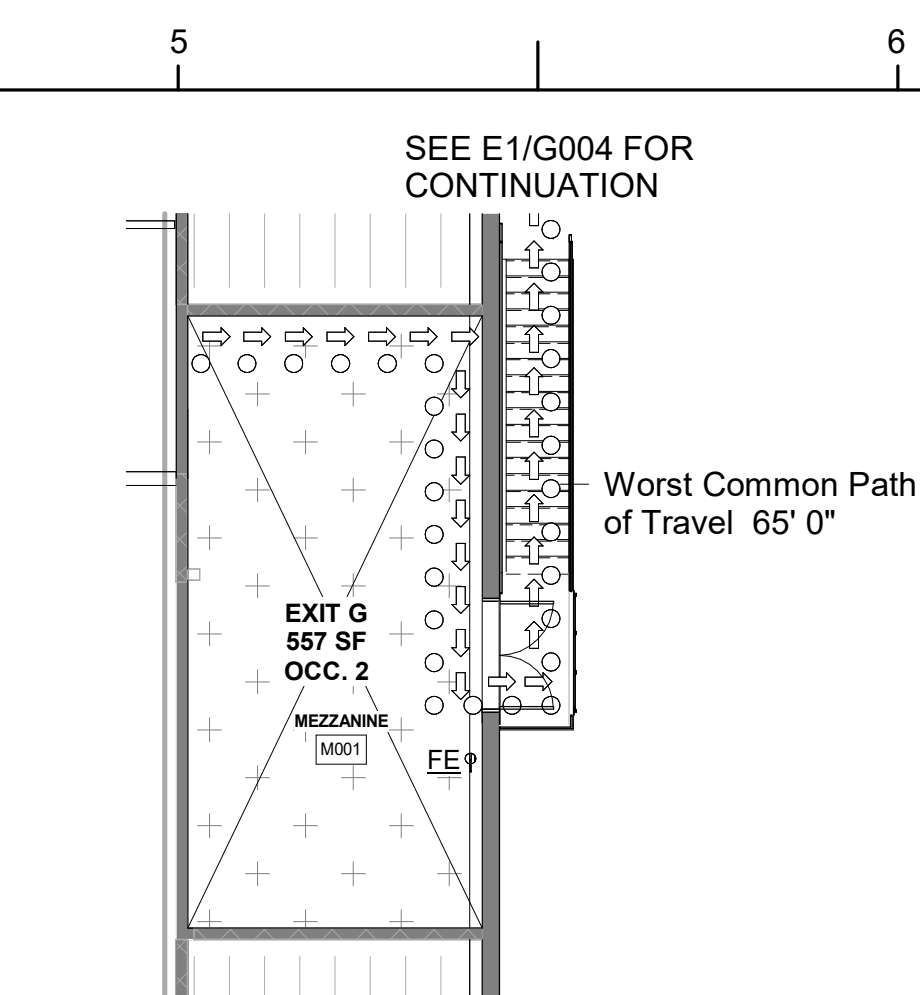
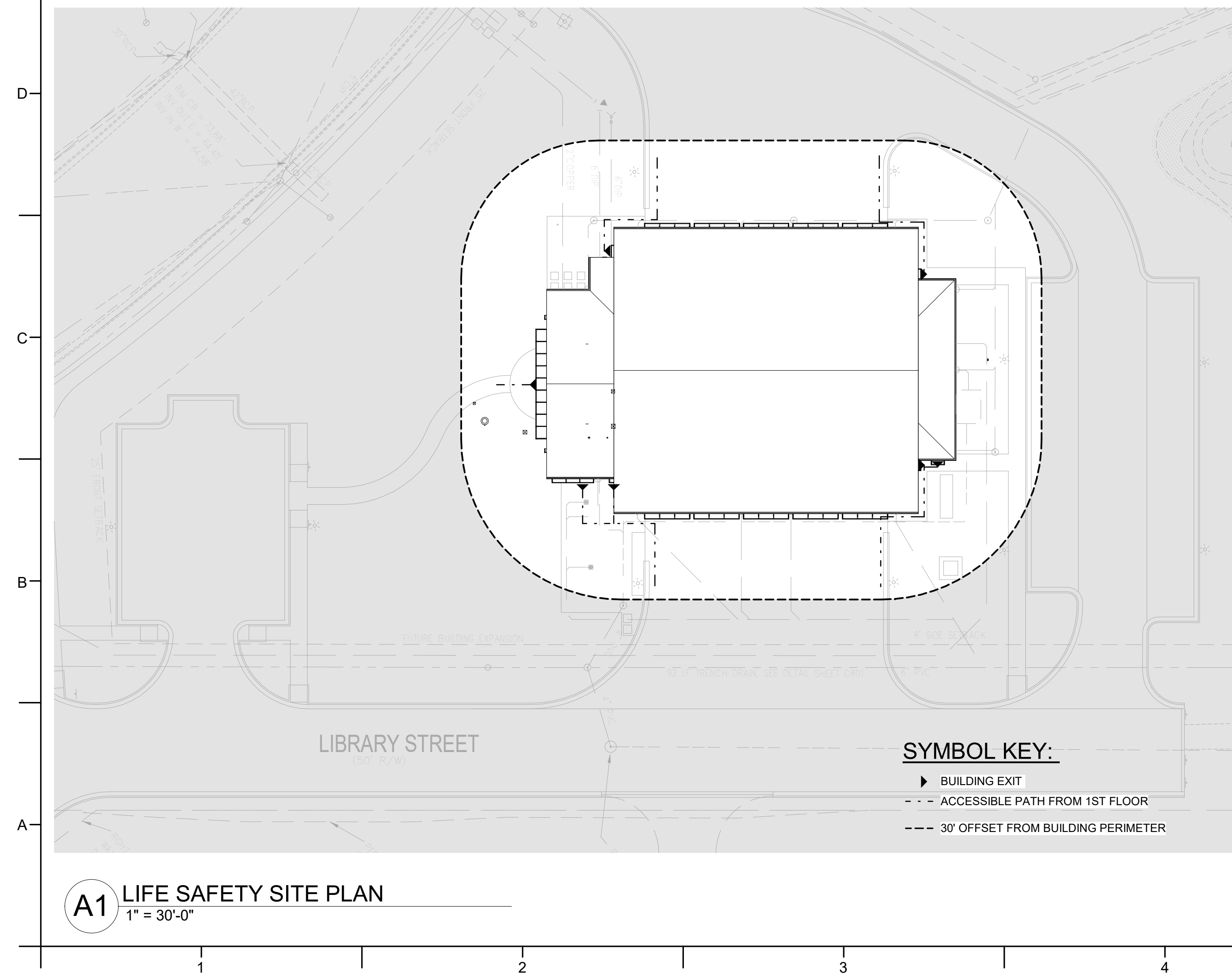
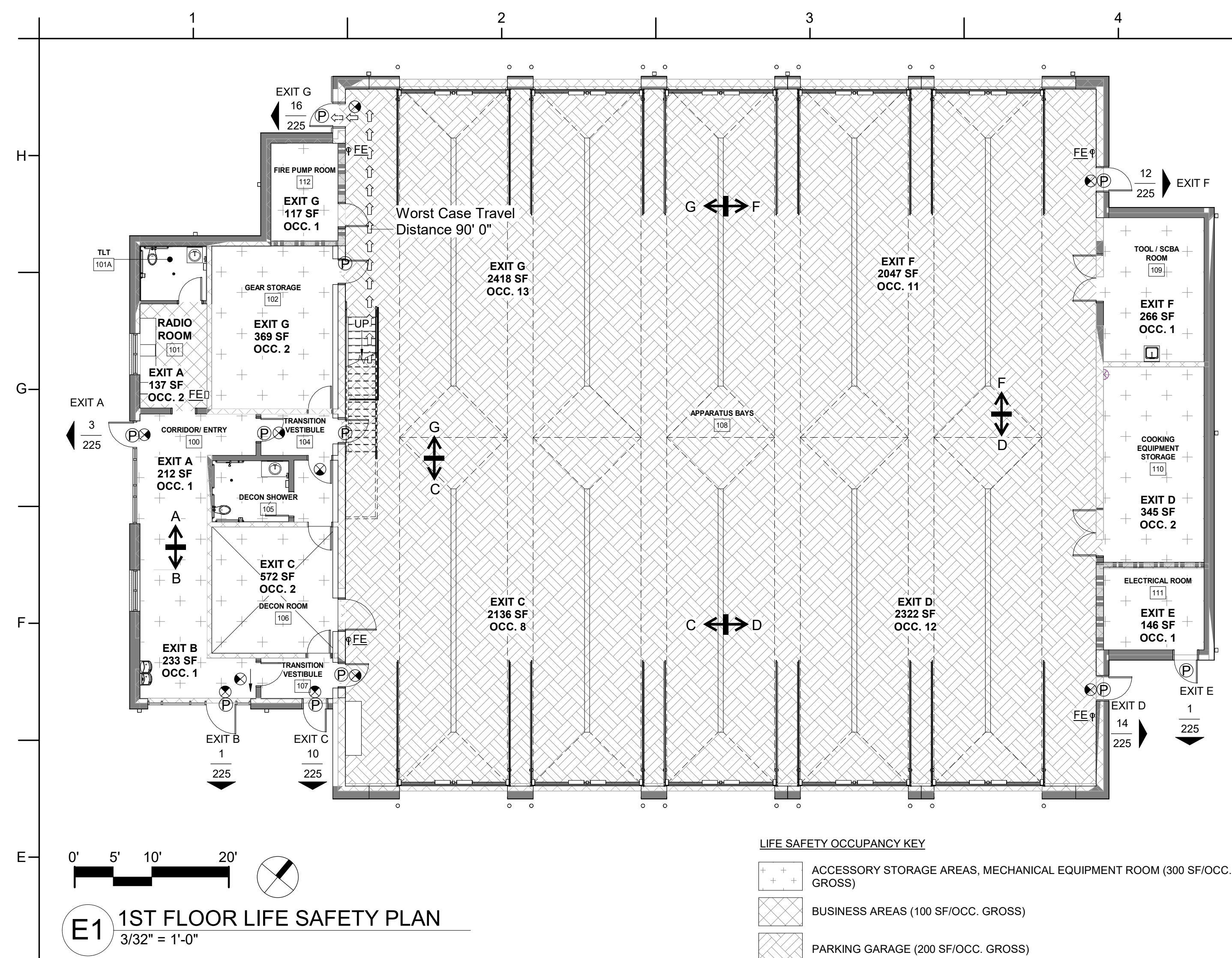
6/17/2025

SHEET TITLE

CODE SUMMARY

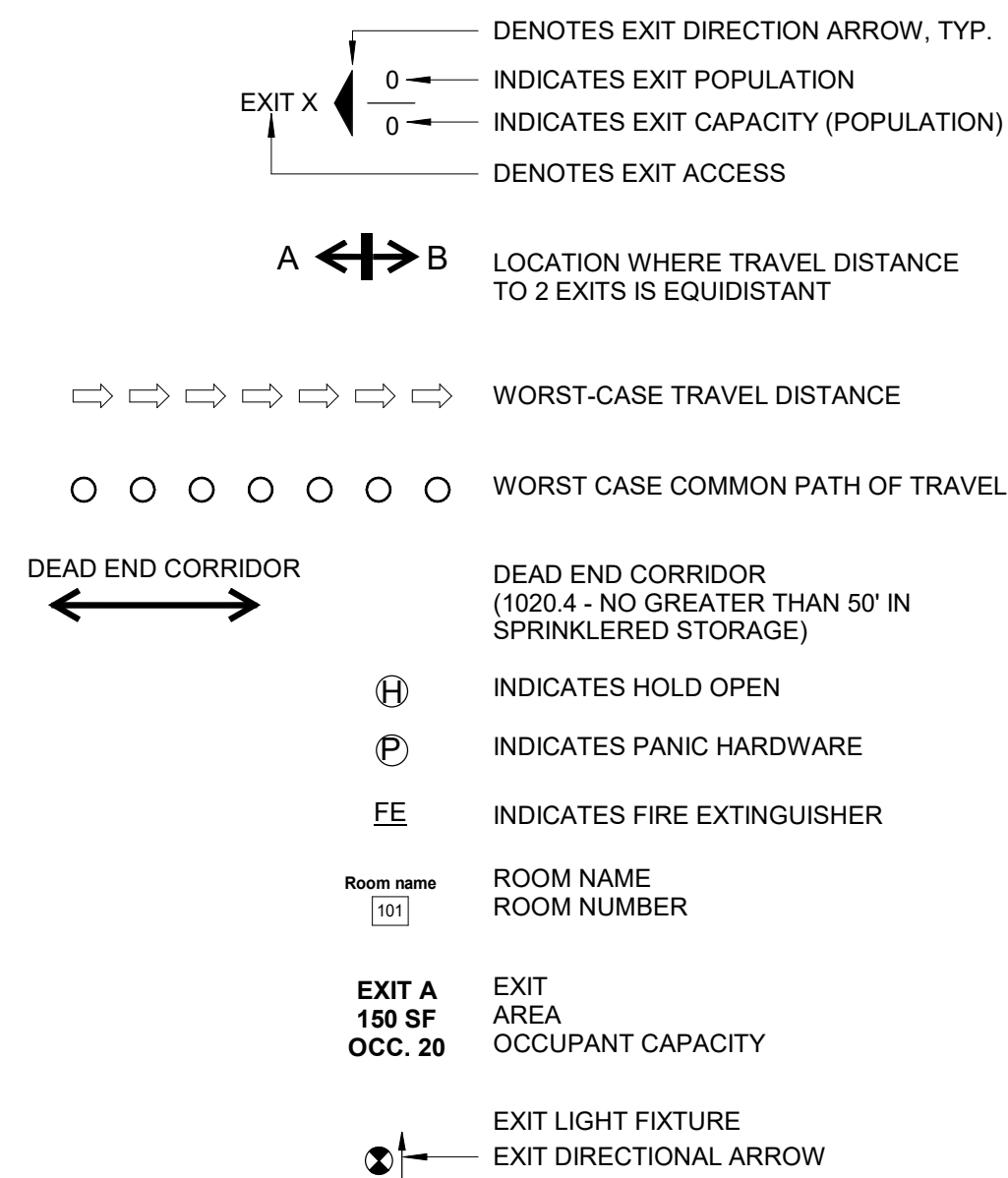
G003





OCCUPANCY AND EGRESS CALCULATIONS						
Exit	Name	Area	Space Description	S.F. Per Person	Occupancy S.F. Type	Occupant Load
1ST FLOOR						
A	Corridor	212 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	2
A	Radio Room	137 SF	Business Areas (100 SF/OCC. GROSS)	100	GROSS	1
						3
B	Corridor	233 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	1
						1
C	Decon Room, Decon Shower	572 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	2
C	Apparatus Bays	2136 SF	Parking Garages	200	GROSS	8
						10
D	Cooking Equipment Storage	345 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	2
D	Apparatus Bays	2322 SF	Parking Garages	200	GROSS	12
						14
E	Electrical Room	146 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	1
						1
F	Tool Room	266 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	1
F	Apparatus Bays	2047 SF	Parking Garages	200	GROSS	11
						12
G	Fire Pump Room	117 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	1
G	Gear Storage	369 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	2
G	Apparatus Bays	2418 SF	Parking Garages	200	GROSS	13
						16
MEZZANINE FLOOR						
G	Mezzanine	557 SF	Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)	300	GROSS	2
						2

## LIFE SAFETY SYMBOL LEGEND



LIFE SAFETY GENERAL NOTES:


1. REFER TO SHEET G002 FOR CODE SUMMARY .
2. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDE WALL HEIGHT, UL DESIGN AND FIRE RATING.
3. REFER TO SITE PLAN FOR BUILDING ADJACENCIES AND PROPERTY LINES.

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES.  
SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS.  
RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN  
ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.

SEE SHEET G005 FOR UL RATINGS AND ADDITIONAL INFORMATION.



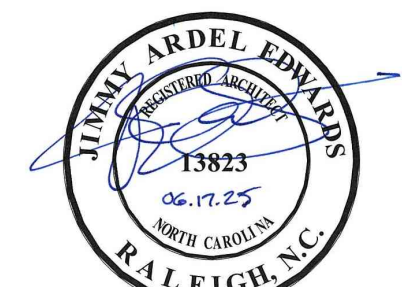
2-HR. FIRE BARRIER



## PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

## SEALS



## DKA JOB NUMBER

2015

## REVISIONS


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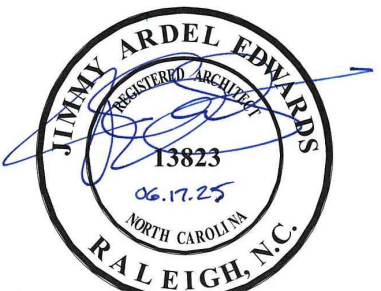
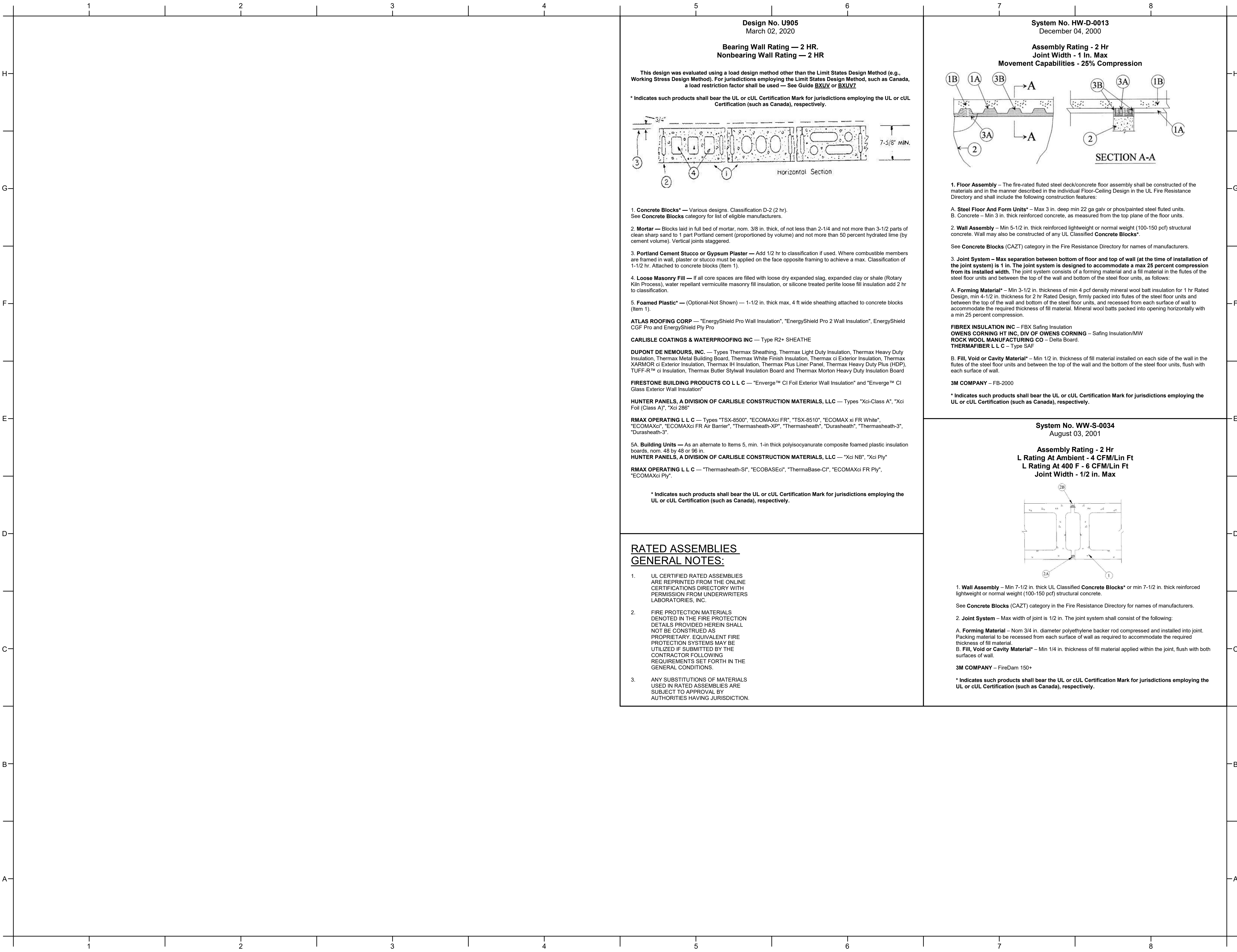
## DATE ISSUED

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6/17/2025

SHEET TITLE
LIFE SAFETY PLANS

G004





NO.	DESCRIPTION



SITE PLAN

TOWN OF FARMVILLE

FIRE STATION & HEADQUARTERS

6101 MAY BOULEVARD

FARMVILLE, NC 27828

PROJECT TEAM

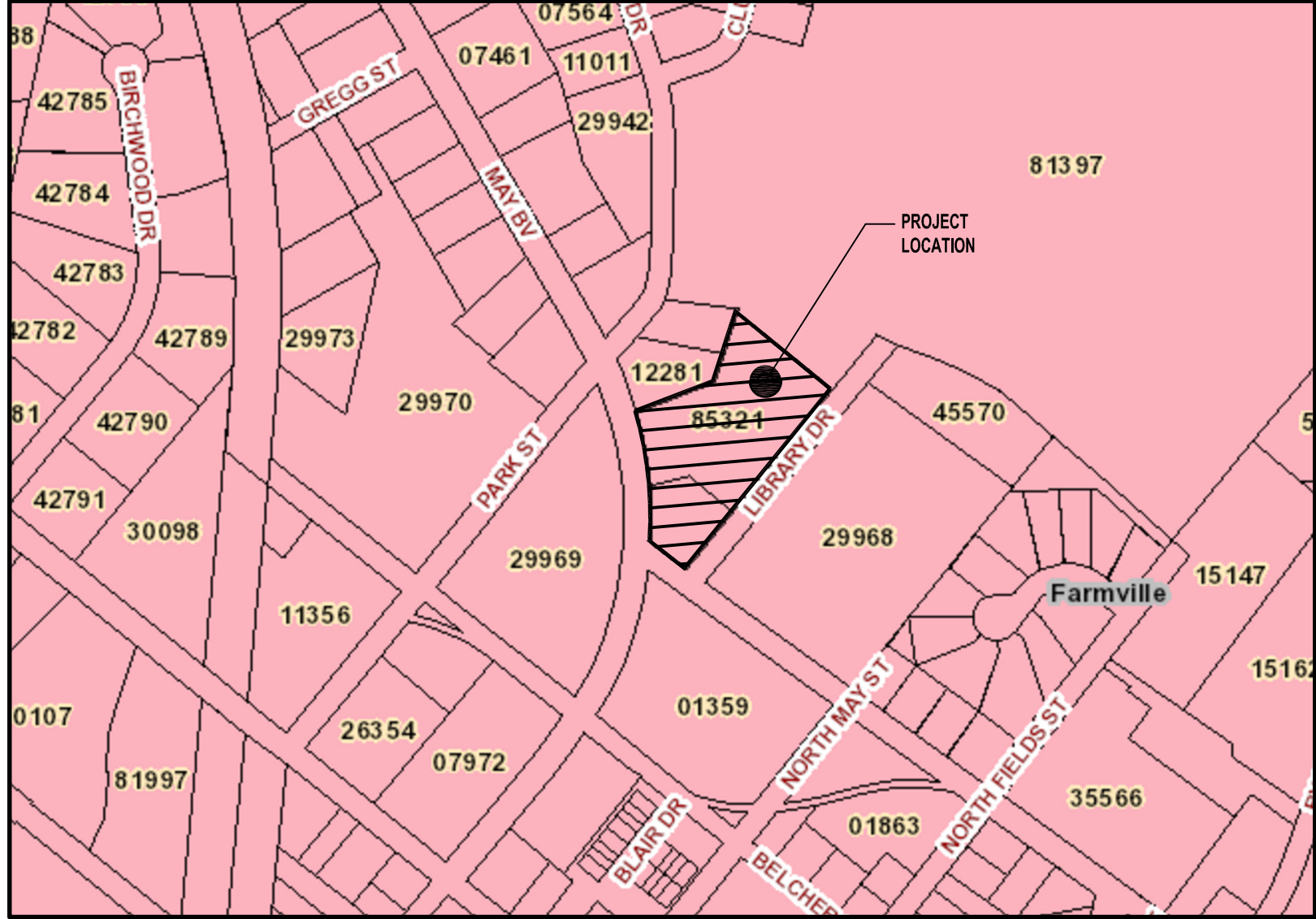
ARCHITECTURAL  
DAVIS KANE ARCHITECTS  
500-300 OBERLIN ROAD  
RALEIGH, NC 27605

CIVIL ENGINEERING AND  
LANDSCAPE ARCHITECTURE  
CLH DESIGN, PA  
400 REGENCY FOREST DR., STE. 120  
CARY, NC 27518

SITE DATA

PROJECT:	TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS
OWNER:	TOWN OF FARMVILLE DAVID HODGKINS – TOWN MANAGER 3672 NORTH MAIN STREET/ P.O. BOX 86 FARMVILLE, NC 27828 252-753-6700 DHODGKINS@FARMVILLENC.GOV
DESIGNER:	CLH DESIGN, PA
DESIGNER CONTACT:	YHOSHUA AAL-ANUBIA, PLA – SENIOR PROJECT MANAGER 400 REGENCY FOREST DR., SUITE 120 CARY, NC 27518 PHONE: 919-319-6716 EMAIL: YAALANUBIA@CLHDESIGNPA.COM
PROJECT ADDRESS:	6101 MAY BOULEVARD FARMVILLE, NC 27828
PIN:	4617971734
ZONING:	HIGHWAY BUSINESS DISTRICT/RS (CURRENT) OFFICE & INSTITUTIONAL (PROPOSED)
EXISTING USE:	VACANT
PROPOSED USE:	GOVERNMENT SERVICE
TRACT AREA:	2.51 ACRES
PARKING PROVIDED:	36 SPACES
OVERLAY DISTRICTS:	NONE
FEMA MAP PANEL #:	3720461700K
REQUIRED SETBACKS:	FRONT: 25, SIDE: 8, REAR: 20, CORNER SIDE: 8

VICINITY MAP



SHEET INDEX

SITE/CIVIL	COVER SHEET
C000	SITE STAKING PLAN
C100	EXISTING CONDITIONS/DEMO PLAN
C200	SITE GRADING PLAN
C300	EROSION & SEDIMENT CONTROL PLAN - INITIAL INSTALL
C400	EROSION & SEDIMENT CONTROL PLAN
C401	SITE UTILITY PLAN
C500	LANDSCAPE PLAN
C600	EROSION & SEDIMENT CONTROL DETAILS
C701	EROSION & SEDIMENT CONTROL DETAILS
C702	EROSION & SEDIMENT CONTROL DETAILS
C703	EROSION & SEDIMENT CONTROL DETAILS
C704	LANDSCAPE DETAILS
C705	WETLAND DETAILS
C706	WETLAND DETAILS
C801	STORM & UTILITY DETAILS
C802	STORM & UTILITY DETAILS
C803	STORM & UTILITY DETAILS
C901	STAKING DETAILS
C902	STAKING DETAILS



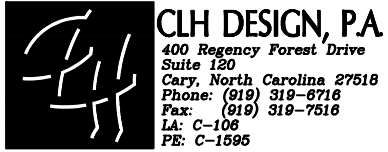
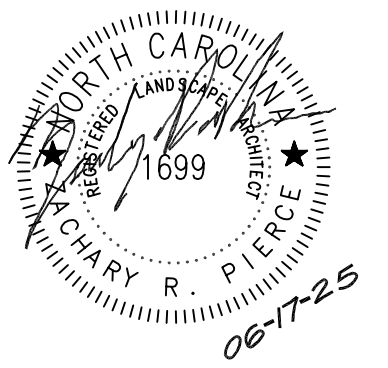
PROJECT INFORMATION

TOWN OF FARMVILLE

FIRE STATION & HEADQUARTERS

6101 MAY BOULEVARD

SEALS



DKA JOB NUMBER

2015

(CLH JOB NUMBER 20-134)

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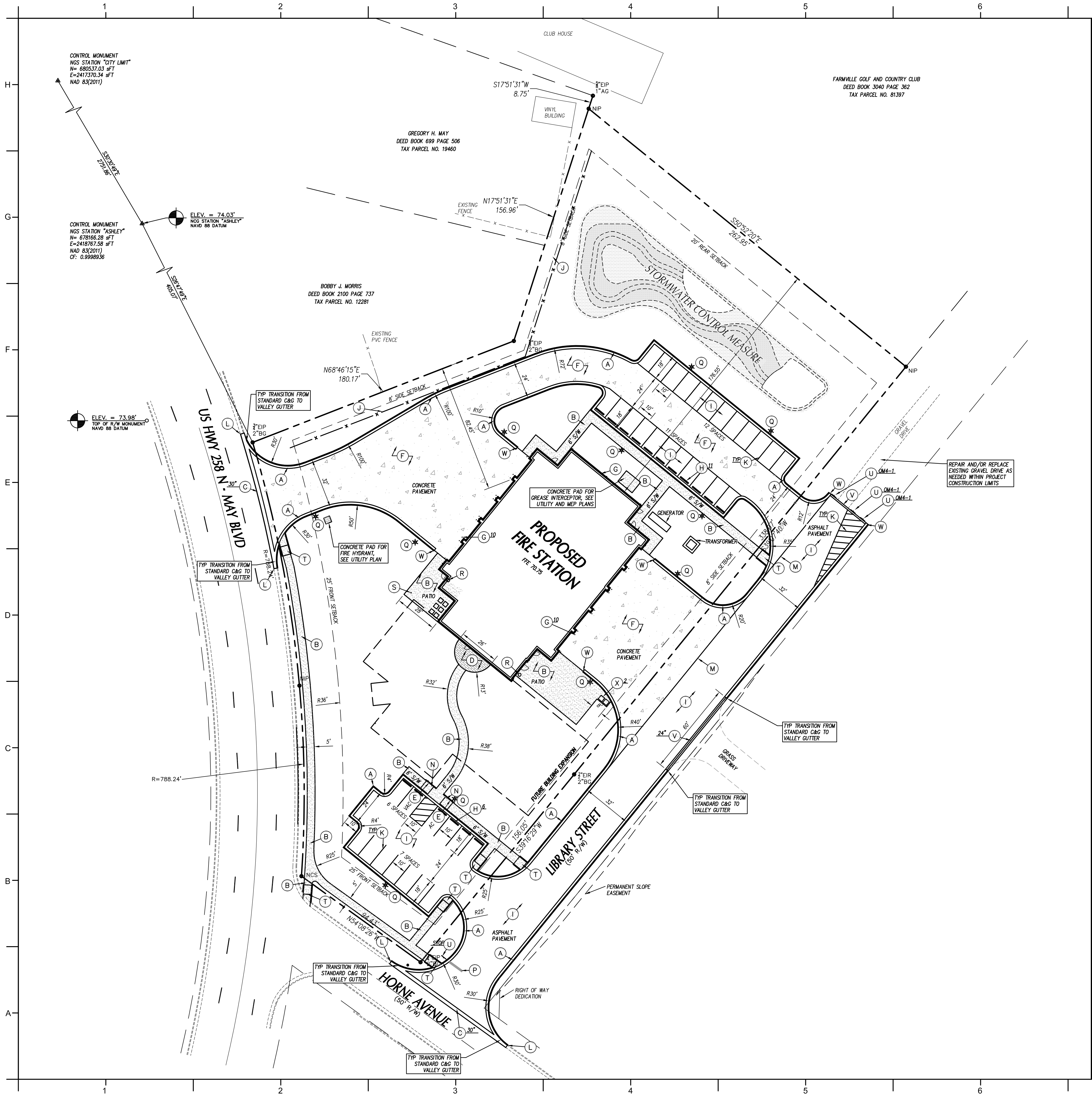
06/17/2025

SHEET TITLE

COVER

C000





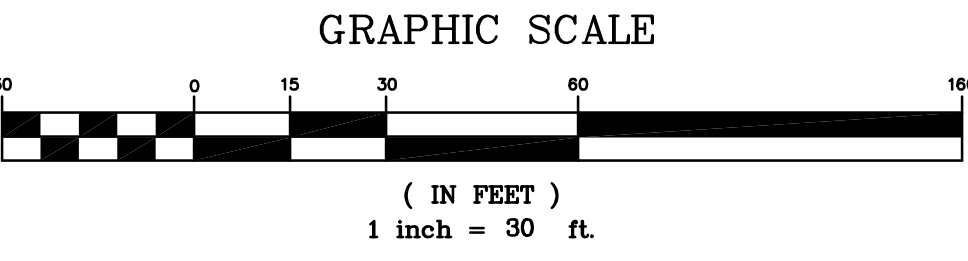
- KEY NOTES**
- (A) 24" CURB & GUTTER, SEE DETAIL SHEET C901.
  - (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C901.
  - (C) VALLEY GUTTER, SEE DETAIL SHEET C901.
  - (D) CONCRETE PAVERS, SEE DETAIL SHEET C901.
  - (E) ACCESSIBLE PARKING & SIGNAGE, SEE DETAIL SHEET C901.
  - (F) CONCRETE PAVEMENT, SEE DETAIL SHEET C901.
  - (G) SEE ARCHITECTURAL PLANS FOR BUILDING, CANOPY, STRUCTURAL WALLS, BUILDING COLUMNS, BOLLARDS, MECHANICAL YARD AND SCREEN WALLS.
  - (H) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C901.
  - (I) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
  - (J) 6" VINYL PRIVACY FENCE, SEE DETAIL SHEET C902.
  - (K) PARKING SPACE STRIPES, TYP, SEE TRAFFIC CONTROL NOTES THIS SHEET.
  - (L) TIE IN TO EXISTING CURB & GUTTER.
  - (M) CONCRETE FLUSH WITH ASPHALT.
  - (N) ACCESSIBLE PARKING CURB RAMP, SEE DETAIL SHEET C901.
  - (O) SCREEN WALL, SEE ARCHITECTURAL PLANS.
  - (P) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
  - (Q) LIGHT POLE, SHOWN ON CIVIL PLANS FOR REFERENCE ONLY, SEE LIGHTING/ELECTRICAL PLANS.
  - (R) TRASH RECEPTACLE, SEE SPECS.
  - (S) FLAG POLE, SEE SPECS AND DETAIL SHEET C902.
  - (T) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C901.
  - (U) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
  - (V) CONCRETE GRADE BEAM, SEE DETAIL SHEET C902.
  - (W) STANDARD METHOD OF ENDING CURB & GUTTER, SEE DETAIL SHEET C901.
  - (X) ROLL OUT WASTE CONTAINER, TO BE PROVIDED BY OWNER.

- TRAFFIC CONTROL NOTES**
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCOT STANDARDS.

TYPE	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
OBJECT MARKER	OM4-1	18"x18"
  - ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP X 12-IN DIA. CONCRETE FOOTING.
  - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCOT STD.	SIZE	COLOR
PARKING SPACES	-	4-IN	WHT.
STOP BAR	-	24-IN	WHT.
  - ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKO-RESIN TYPE PAINT.
  - ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
  - COORDINATE FIRE LANE MARKINGS WITH TOWN OF FARMVILLE FIRE MARSHAL. BASE BID SHALL INCLUDE 1,135 LINEAR FEET.
  - ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

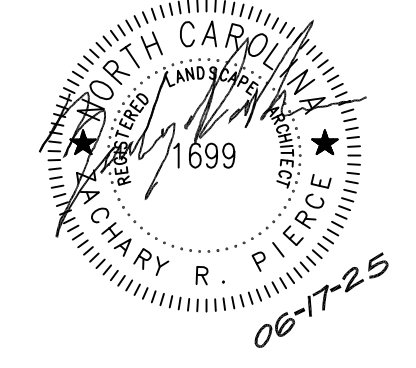
- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF FARMVILLE AND NCOT STANDARDS AND SPECIFICATIONS.
  - ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
  - CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - ALL FACE OF RADIUS' ARE 4 FT UNLESS OTHERWISE SHOWN.
  - ALL PARKING SPACES SHALL BE 9' WIDE X 18 FT DEEP MIN.
  - (AC) DENOTES ACCESSIBLE PARKING SPACE.
  - (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
  - ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
  - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
  - NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.



**PROJECT INFORMATION**

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD

**SEALS**



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Fax: (919) 528-8722  
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Web: www.clhdesign.com

<b>DKA JOB NUMBER</b>
2015
(CLH JOB NUMBER 20-134)
<b>REVISIONS</b>

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PM: YLA  
Drawn By: DAL,DCC,HRW  
Plot Date:

**DATE ISSUED**  
PERMIT & BID SET

06/17/2025

**SHEET TITLE**  
SITE STAKING PLAN

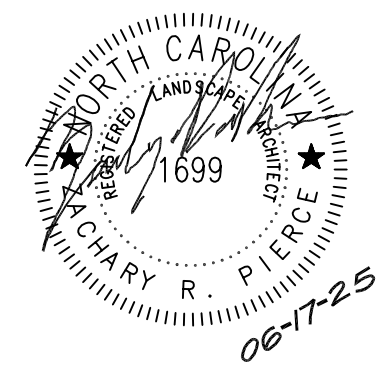
**C100**



PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
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6101 MAY BOULEVARD

SEALS



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Email: info@clhdesign.com

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SHEET TITLE

EXISTING CONDITIONS  
/ DEMO PLAN

C200

LEGEND

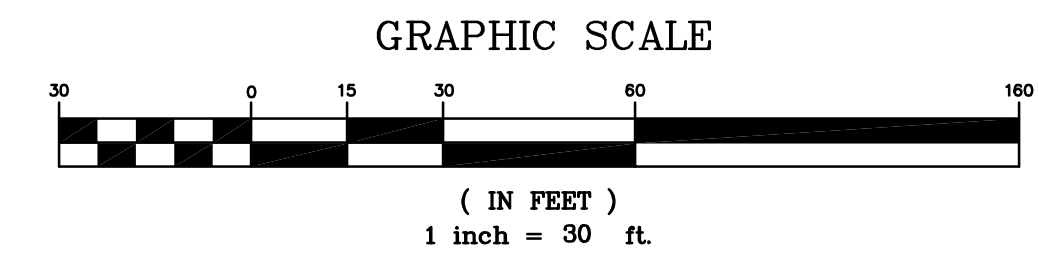
STRUCTURES/UTILITIES TO BE REMOVED	STRUCTURES/UTILITIES TO REMAIN
OVERHEAD ELECTRICAL ----- E -----	OVERHEAD ELECTRICAL ----- E -----
UNDERGROUND ELECTRICAL ----- UE -----	UNDERGROUND ELECTRICAL ----- UE -----
FIRE PROTECTION ----- FP -----	FIRE PROTECTION ----- FP -----
GAS ----- G -----	GAS ----- G -----
SANITARY SEWER ----- SS -----	SANITARY SEWER ----- SS -----
TELEPHONE ----- T -----	TELEPHONE ----- T -----
UNDERGROUND TELEPHONE ----- UT -----	UNDERGROUND TELEPHONE ----- UT -----
FIBER OPTIC ----- FO -----	FIBER OPTIC ----- FO -----
WATER ----- W -----	WATER ----- W -----
FORCE MAIN ----- FM -----	FORCE MAIN ----- FM -----
STORM DRAIN ----- SD -----	STORM DRAIN ----- SD -----
INDIVIDUAL TREE TO BE REMOVED. (Symbol: Tree with X)	INDIVIDUAL TREE TO REMAIN. (Symbol: Tree)
LIGHT POLE (Symbol: LP)	LIGHT POLE (Symbol: LP)
UTILITY POLE (Symbol: PP)	UTILITY POLE (Symbol: PP)
MANHOLE (Symbol: MH)	MANHOLE (Symbol: MH)
CLEAN OUT (Symbol: CO)	CLEAN OUT (Symbol: CO)
DROP INLET/CATCH BASIN (Symbol: DI, CB)	DROP INLET/CATCH BASIN (Symbol: DI, CB)
FIRE HYDRANT (Symbol: FH)	FIRE HYDRANT (Symbol: FH)
WATER VALVE (Symbol: WV)	WATER VALVE (Symbol: WV)
CONSTR./CLEARING LIMITS (Symbol: Dashed line)	PAVEMENT, S/W, C&G TO BE REMOVED. (Symbol: Hatched area)
TREE PROTECTION FENCE (Symbol: Line with circles)	TREE STAND TO BE REMOVED. (Symbol: X's in a square)

GENERAL NOTES

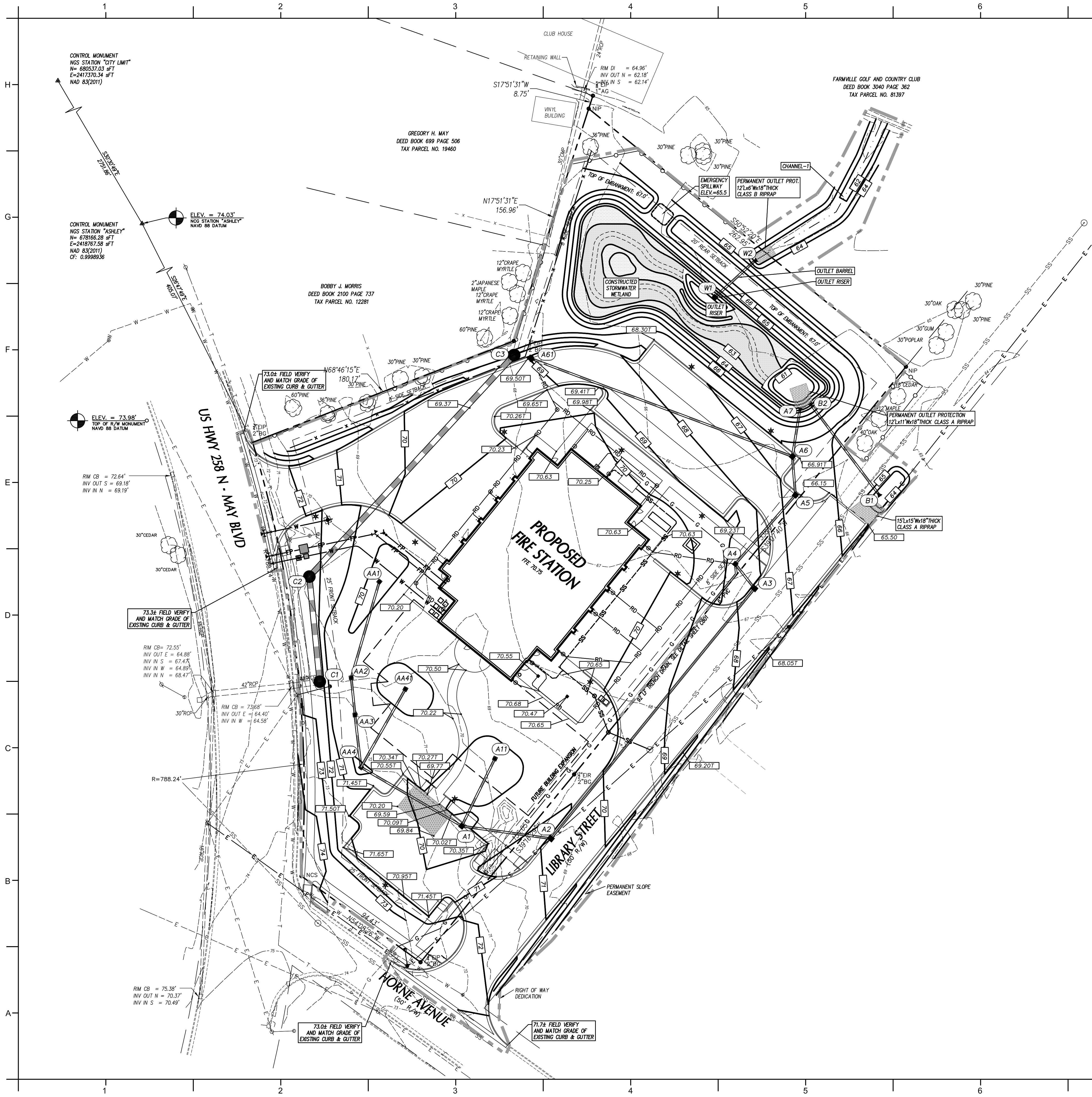
- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY MCDONALD ASSOCIATES, INC. PERFORMED 12-15-2020. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY CHANGES TO INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
- TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2'-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR, ROOTS.
- PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF FARMVILLE AND/OR NC DOT STANDARDS AND SPECIFICATIONS.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
- DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C202 FOR PAVEMENT REPAIR DETAILS.
- THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720461700K, DATED 04-16-2013 AS BEING WITHIN ZONE "X-OTHER AREA".
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C701.
- (B) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.
- (C) EXISTING BILLBOARD TO BE REMOVED BY BILLBOARD COMPANY.
- (D) SAW CUT AND REMOVE EXISTING CURB AND GUTTER.
- (E) EXISTING PAVEMENT TO BE REMOVED.
- (F) EXISTING FENCE TO BE REMOVED.
- (G) EXISTING STRUCTURE/UTILITY TO BE REMOVED.
- (H) EXISTING GRAVEL DRIVE TO BE REMOVED.
- (I) CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR REMOVAL AND/OR RELOCATION OF EXISTING STRUCTURE/UTILITY.





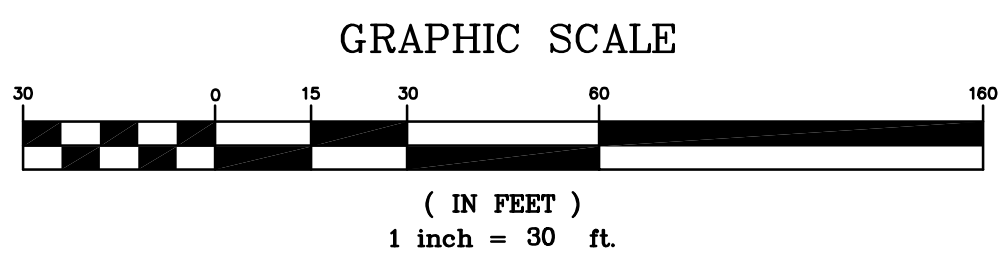


**GRADING LEGEND**

EXISTING CONTOURS  
FINAL CONTOURS  
EXISTING SURVEY SPOT ELEVATION  
PROPOSED TOP OF CURB SPOT ELEVATION  
PROPOSED GROUND/PAVEMENT ELEVATION  
STORM STRUCTURE NUMBER  
EXISTING STORM DRAIN PIPE  
PROPOSED STORM DRAIN PIPE  
PROPOSED ROOF DRAIN  
TREE PROTECTION FENCE

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN FARMVILLE AND NC DOT STANDARDS AND SPECIFICATIONS.
  - ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
  - TOTAL DENUDED AREA = 3.2 AC
  - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
  - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
  - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C702.
  - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
  - ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
  - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
  - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
  - THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
  - CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

DRAINAGE STRUCTURE SCHEDULE											
STRUCTURE NO.		PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MAT'L	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA			
UP STRM	DN STRM							TOP ELEV. (FT) (1)	DEPTH (FT)	TYPE	NOTES
AA1	AA2	0.63%	12	64	HDPE	67.20	66.80	69.50	2.30	ID	1
AA2	AA3	1.25%	12	24	HDPE	66.80	66.50	70.50	3.70	ID	
AA3	AA4	0.59%	12	34	HDPE	66.50	66.30	70.50	4.00	ID	
AA4	A1	0.67%	12	75	HDPE	66.30	65.80	69.50	3.20	ID	
A1	A2	0.52%	15	58	RCP	65.70	65.40	69.76	4.06	CB	
A2	A3	0.53%	15	207	RCP	65.30	64.20	71.36	6.06	CB	
A3	A4	0.50%	18	20	RCP	64.10	64.00	68.18	4.08	DI	
A4	A5	0.51%	24	59	RCP	63.90	63.60	68.56	4.66	CB	
A5	A6	0.80%	24	25	RCP	63.50	63.30	67.25	3.75	CB	
A6	A7	0.63%	24	32	RCP	63.20	63.00	66.91	3.71	CB	
AA41	AA4	1.21%	12	58	HDPE	67.00	66.30	69.80	2.80	ID	
A11	A1	1.43%	12	49	HDPE	66.50	65.80	69.80	3.30	ID	
A61	A6	0.59%	15	179	RCP	65.10	64.05	69.50	4.40	CB	1
B1	B2	0.53%	15	75	RCP	63.40	63.00	65.50	2.10	FES	
W1	W2	0.51%	24	35	RCP	62.80	62.62	65.10	2.30	WO	2
C1 (bypass)C2 (bypass)		0.49%	42	68	RCP	64.32	63.99	72.00	7.68	MH	
C2 (bypass)C3 (bypass)		0.48%	42	194	RCP	63.90	62.96	72.00	8.10	MH	
LEGEND						TOP ELEVATION DESCRIPTIONS					
CB	CATCH BASIN, SEE DETAIL SHEET C801					CB:	TOP OF HOOD				
DI	DROP INLET, SEE DETAIL SHEET C801					ID, DI, MH:	TOP OF GRATE				
ID	INLINE DRAIN, SEE DETAIL SHEET C801					1.	DOWNSTREAM STRUCTURE IS A FES				
MH	MANHOLE, SEE DETAIL SHEET C802					2.					
FES	CONCRETE FLARED END SECTION, SEE SPECS						UPSTREAM STRUCTURE IS SCM				
RCP	REINFORCED CONCRETE PIPE, SEE SPECS						OUTLET STRUCTURE, SEE DETAIL SHEET C705.				
HDPE	HIGH-DENSITY POLYETHYLENE PIPE, SEE SPECS										
A(2)	DRAINAGE STRUCTURE I.D. NUMBER										



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FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD

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**DKA JOB NUMBER**  
2015  
(CLH JOB NUMBER 20-134)

**REVISIONS**

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PM: YLA  
Drawn By: DAL,DCC,HRW  
Plot Date:

**DATE ISSUED**  
PERMIT & BID SET

06/17/2025

**SHEET TITLE**  
SITE GRADING PLAN  
**C300**



PROJECT INFORMATION

TOWN OF FARMVILLE  
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6101 MAY BOULEVARD

SEALS



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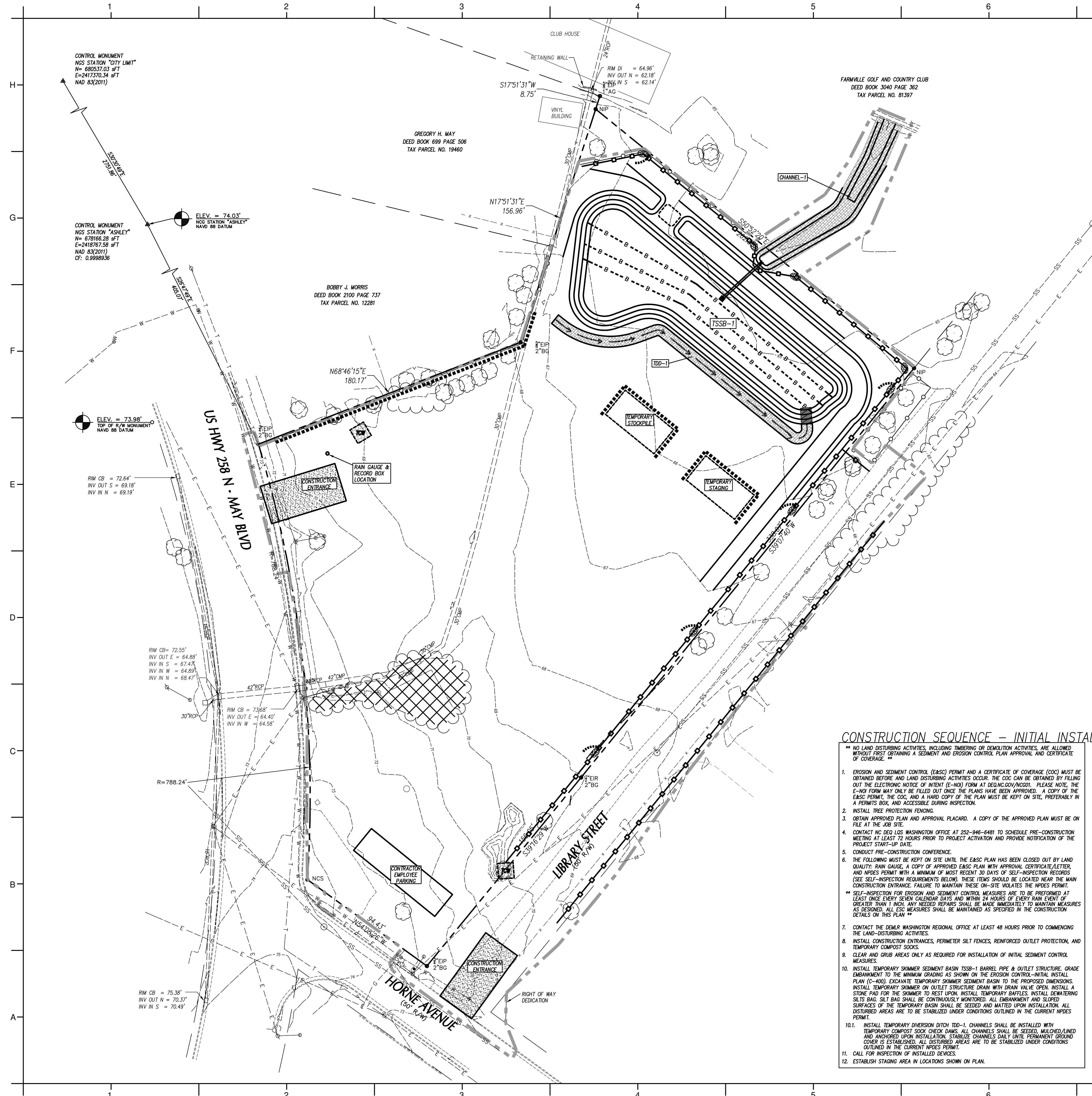
DATE ISSUED

PERMIT & BID SET

06/17/2025

SHEET TITLE  
EROSION & SEDIMENT  
CONTROL PLAN -  
INITIAL INSTALL

C400



LEGEND

	TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C702		TEMP. SKIMMER SEDIMENT BASIN SEE DETAIL SHEET C702
	TEMP. INLET PROTECTION DEVICE SEE DETAIL SHEET C702		EXISTING CONTOUR
	TEMP. DIVERSION DITCH / BERM SEE DETAIL SHEET C703		TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
	TEMP. SILT FENCE SEE DETAIL SHEET C701		CHANNEL LINING SEE DETAIL SHEET C703
	TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C701		TREE PROTECTION FENCE SEE DETAIL SHEET C701
	PERMANENT OUTLET PROTECTION FENCE SEE DETAIL SHEET C702		PROPOSED STORM SEWER PIPES
	TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C701		EXISTING STORM SEWER PIPES
	CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.		TEMP. BAFFLES SEE DETAIL SHEET C702
	TEMP. COMPOST SOCK SEE DETAIL SHEET C703		

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF FARMVILLE, NCDOT, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 3.2 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREAS(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OF DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (PERMANENT CHANNEL) AND C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
16. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDING AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C701 FOR SELF-INSPECTION REQUIREMENTS.

THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDEMUR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ON SITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

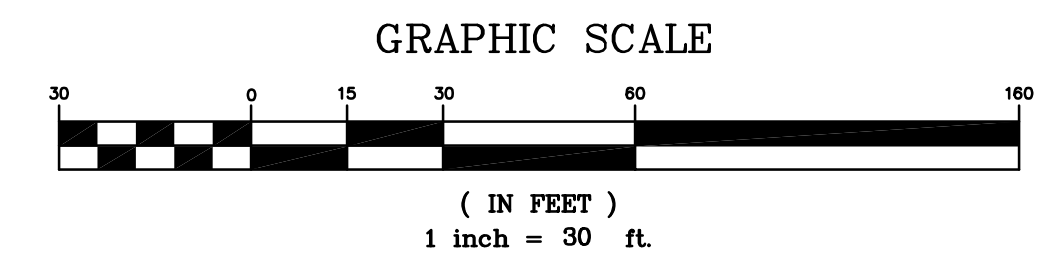
EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11.B(2) (d)).

THE REQUIREMENTS ON SHEET C701 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCELSON MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE - INITIAL INSTALL

- \*\* NO LAND DISTURBING ACTIVITIES, INCLUDING TIMBERING OR DEMOLITION ACTIVITIES, ARE ALLOWED WITHOUT FIRST OBTAINING A SEDIMENT AND EROSION CONTROL PLAN APPROVAL AND CERTIFICATE OF COVERAGE. \*\*
1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE AND LAND DISTURBING ACTIVITIES OCCUR. THE COC CAN BE OBTAINED BY FILING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT DEQ.NC.GOV/NC001. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION.
  2. INSTALL TREE PROTECTION FENCING.
  3. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE.
  4. CONTACT NC DEQ LOS WASHINGTON OFFICE AT 252-946-6481 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION AND PROVIDE NOTIFICATION OF THE PROJECT START-UP DATE.
  5. CONDUCT PRE-CONSTRUCTION CONFERENCE.
  6. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&SC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY RAIN GAUGE. A COPY OF APPROVED E&SC PLAN WITH APPROVAL CERTIFICATE/LETTER, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
  - \*\* SELF-INSPECTION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN \*\*
  7. CONTACT THE DEMUR WASHINGTON REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
  8. INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, REINFORCED OUTLET PROTECTION, AND TEMPORARY COMPOST SOCKS.
  9. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
  10. INSTALL TEMPORARY SKIMMER SEDIMENT BASIN TSSB-1 BARREL PIPE & OUTLET STRUCTURE. GRADE EMBANKMENT TO THE MINIMUM GRADING AS SHOWN ON THE EROSION CONTROL-INITIAL INSTALL PLAN (C-400). EXCAVATE TEMPORARY SKIMMER SEDIMENT BASIN TO THE PROPOSED DIMENSIONS. INSTALL TEMPORARY SKIMMER ON OUTLET STRUCTURE DRAIN WITH DRAIN VALVE OPEN. INSTALL A STONE PAD FOR THE SKIMMER TO REST UPON. INSTALL TEMPORARY BAFFLES. INSTALL DEWATERING SILT BAG. SILT BAG SHALL BE CONTINUOUSLY MONITORED. ALL EMBANKMENT AND SLOPED SURFACES OF THE TEMPORARY BASIN SHALL BE SEEDING AND MATTED UPON INSTALLATION. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  - 10.1. INSTALL TEMPORARY DIVERSION DITCH TDD-1. CHANNELS SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDING, MULCHED/LINED AND ANCHORED UPON INSTALLATION. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  11. CALL FOR INSPECTION OF INSTALLED DEVICES.
  12. ESTABLISH STAGING AREA IN LOCATIONS SHOWN ON PLAN.





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TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD

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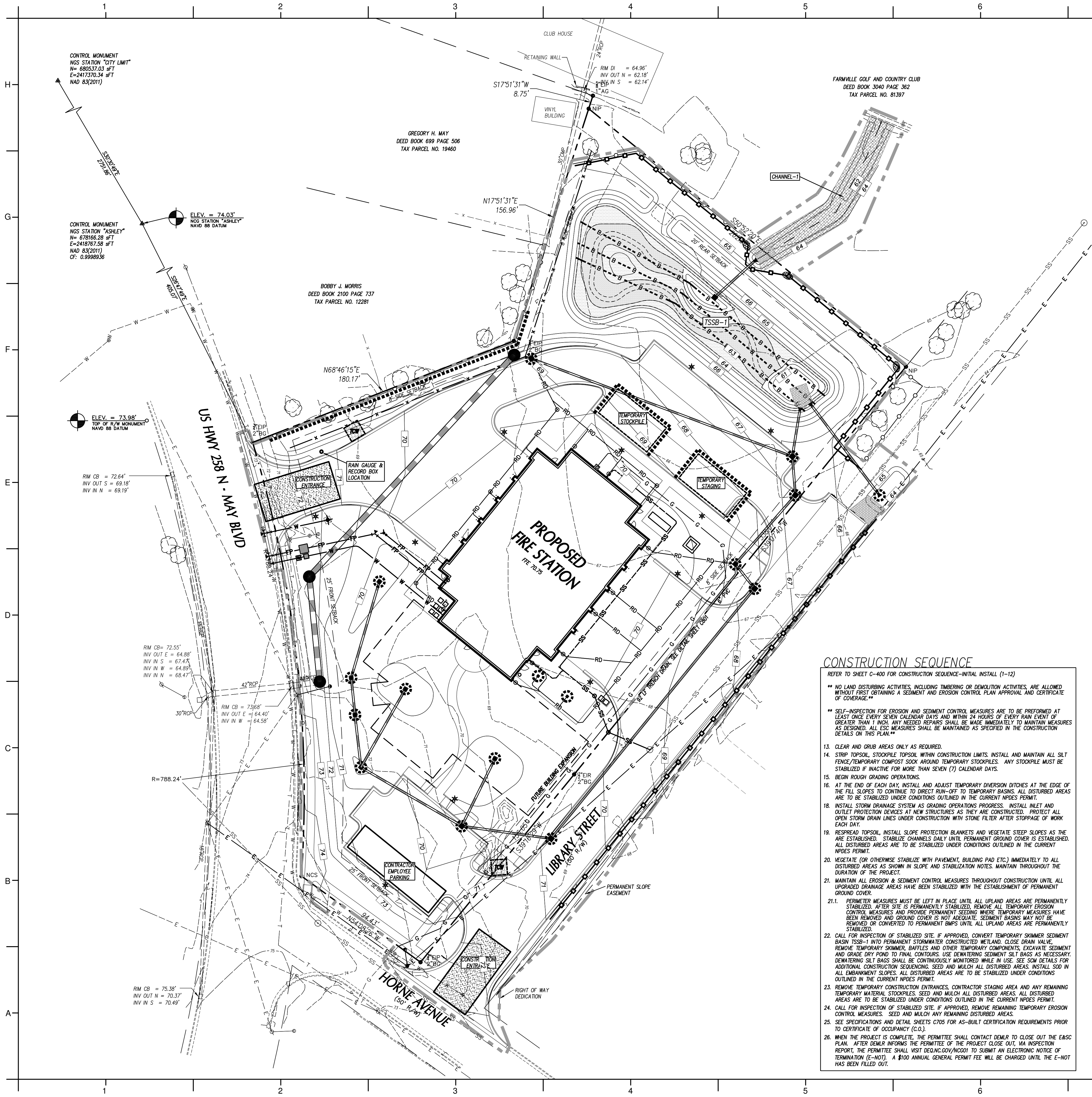
PERMIT & BID SET

06/17/2025

SHEET TITLE

EROSION & SEDIMENT  
CONTROL PLAN

C401



**LEGEND**

TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C702	TEMP. SKIMMER SEDIMENT BASIN SEE DETAIL SHEET C702
TEMP. INLET PROTECTION DEVICE SEE DETAIL SHEET C702	EXISTING CONTOUR
TEMP. DIVERSION DITCH / BERM SEE DETAIL SHEET C703	FINISHED CONTOUR
TEMP. SILT FENCE SEE DETAIL SHEET C701	TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C701	CHANNEL LINING SEE DETAIL SHEET C703
PERMANENT OUTLET PROTECTION SEE DETAIL SHEET C702	TREE PROTECTION FENCE SEE DETAIL SHEET C701
TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C701	PROPOSED STORM SEWER PIPES
CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.	EXISTING STORM SEWER PIPES
TEMP. COMPOST SOCK SEE DETAIL SHEET C703	TEMP. BAFFLES SEE DETAIL SHEET C702

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF FARMVILLE, NCEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
  - THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
  - THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
  - TOTAL DISTURBED AREA: 3.2 AC.
  - ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
  - ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
  - THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
  - SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
  - THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (C.O.). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
  - TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREAS WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OF DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
  - ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
  - INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS. SEE DETAIL SHEET C702 (PERMANENT CHANNEL) AND C702 (TEMPORARY DIVERSION DITCH) FOR TYPE OF MATTING TO USE.
  - ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
  - ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
  - GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
  - CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.

- MAINTENANCE PLAN**
- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
  - FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
  - THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
  - SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
  - ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

**SELF-INSPECTION RULES**

SEE SHEET C701 FOR SELF-INSPECTION REQUIREMENTS.

THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCEMILR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ON-SITE.

**SLOPE & SURFACE STABILIZATION**

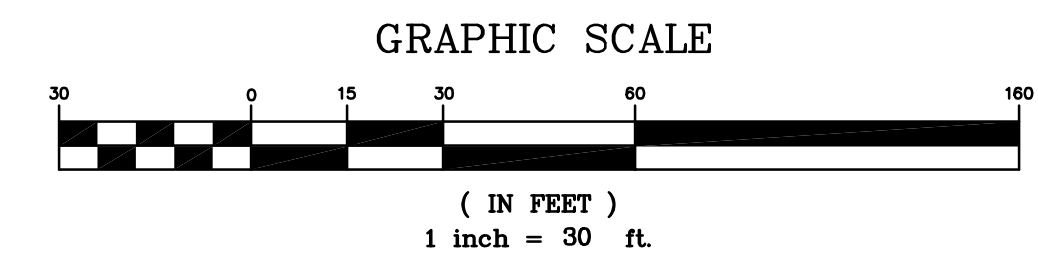
GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11.6(2) (b)).

THE REQUIREMENTS ON SHEET C701 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXPOSURE MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

- CONSTRUCTION SEQUENCE**
- REFER TO SHEET C-400 FOR CONSTRUCTION SEQUENCE—INITIAL INSTALL (1-12)
- \*\* NO LAND DISTURBING ACTIVITIES, INCLUDING TIMBERING OR DEMOLITION ACTIVITIES, ARE ALLOWED WITHOUT FIRST OBTAINING A SEDIMENT AND EROSION CONTROL PLAN APPROVAL AND CERTIFICATE OF COVERAGE. \*\***
- \*\* SELF-INSPECTION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. \*\***
- CLEAR AND GRUB AREAS ONLY AS REQUIRED.
  - STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN CONSTRUCTION LIMITS. INSTALL AND MAINTAIN ALL SILT FENCE/TEMPORARY COMPOST SOCK AROUND TEMPORARY STOCKPILES. ANY STOCKPILE MUST BE STABILIZED IF INACTIVE FOR MORE THAN SEVEN (7) CALENDAR DAYS.
  - BEGIN ROUGH GRADING OPERATIONS.
  - AT THE END OF EACH DAY, INSTALL AND ADJUST TEMPORARY DIVERSION DITCHES AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  - INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
  - RESURFACE TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  - VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT.
  - MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL ALL UPGRADED DRAINAGE AREAS HAVE BEEN STABILIZED WITH THE ESTABLISHMENT OF PERMANENT GROUND COVER.
  1. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT BASINS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
  - CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, CONVERT TEMPORARY SKIMMER SEDIMENT BASIN TSSB-1 INTO PERMANENT STORMWATER CONSTRUCTED WETLAND. CLOSE DRAIN VALVE. REMOVE TEMPORARY SKIMMER, BAFFLES AND OTHER TEMPORARY COMPONENTS, EXCAVATE SEDIMENT AND GRADE DRY POND TO FINAL CONTOURS. USE DEWATERING SEDIMENT SILT BAGS AS NECESSARY. DEWATERING SILT BAGS SHALL BE CONTINUOUSLY MONITORED WHILE IN USE. SEE SOW DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, SEED AND MULCH ALL DISTURBED AREAS. INSTALL SOD IN ALL EMBANKMENT SLOPES. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  - REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
  - CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS.
  - SEE SPECIFICATIONS AND DETAIL SHEETS C705 FOR AS-BUILT CERTIFICATION REQUIREMENTS PRIOR TO CERTIFICATE OF OCCUPANCY (C.O.).
  - WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMUR TO CLOSE OUT THE E&SC PLAN. AFTER DEMUR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NC001 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.

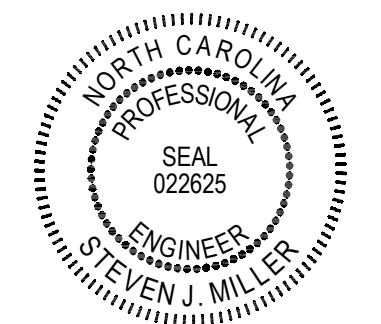




PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD

SEALS



DKA JOB NUMBER  
2015

(CLH JOB NUMBER 20-134)

REVISIONS

NO.	DESCRIPTION

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06/17/2025

SHEET TITLE

SITE UTILITY PLAN

C500

UTILITY LEGEND

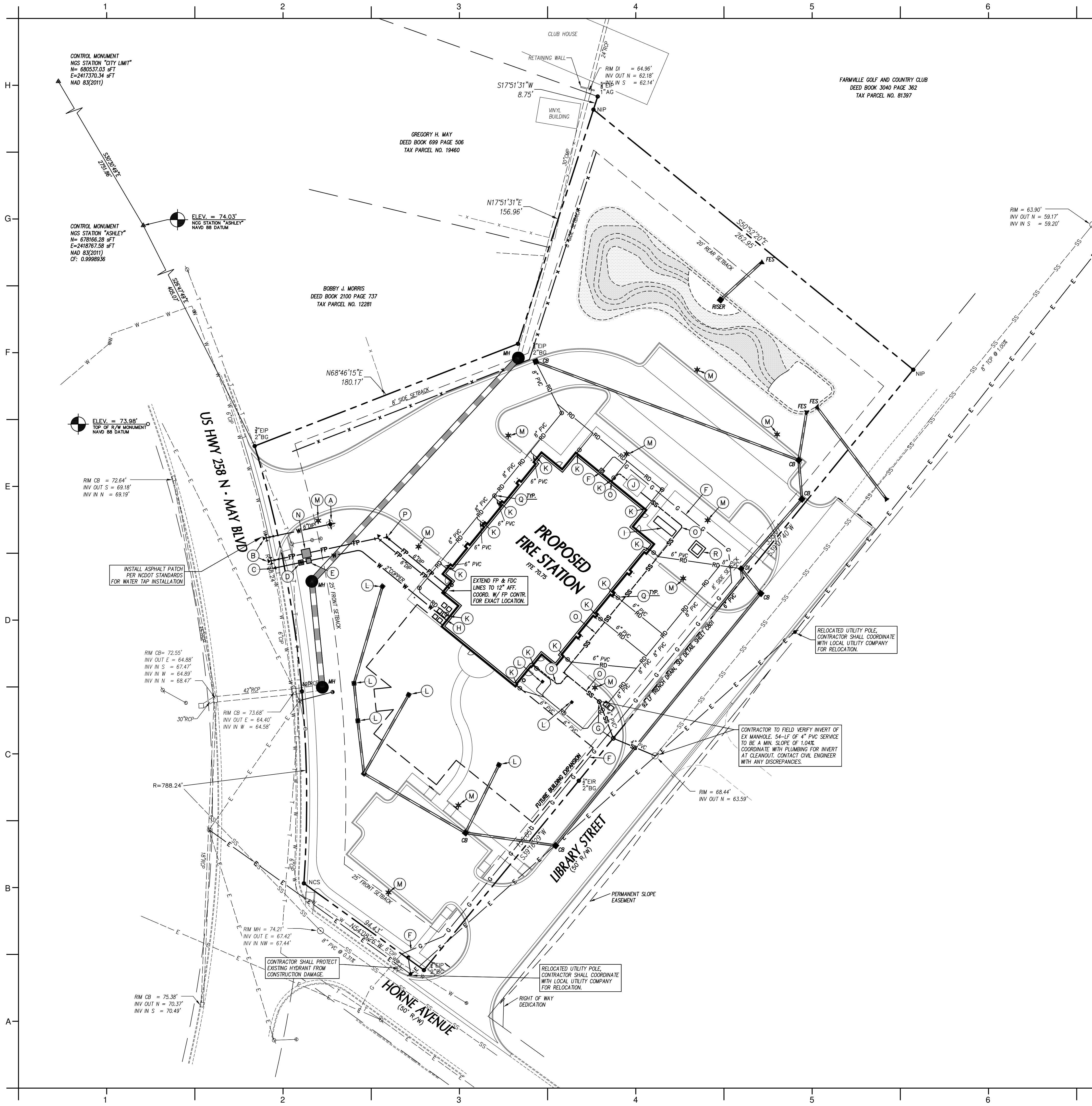
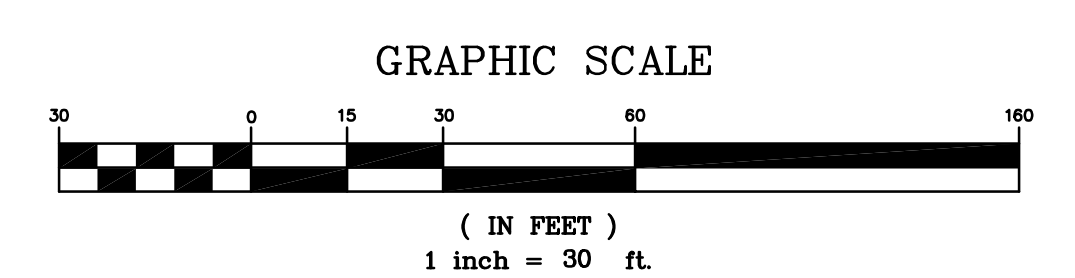
	EXISTING	PROPOSED
CHILLED WATER	---CW---	CW
ELECTRICAL (OVERHEAD)	---E---	E
ELECTRICAL (UNDERGROUND)	---UE---	UE
FOUNDATION DRAIN	---FD---	FD
GAS	---G---	G
SANITARY SEWER	---SS---	SS
TELEPHONE (OVERHEAD)	---T---	T
TELEPHONE (UNDERGROUND)	---UT---	UT
WATER	---W---	W
ROOF DRAIN	---RD---	RD
FIRE PROTECTION	---FP---	FP
STORM DRAIN	---SD---	SD
TREE PROTECTION FENCING (SEE EROSION CONTROL PLANS)		
LIGHT POLE	☆ LP	★
UTILITY POLE	PP	PP
MANHOLE	○ MH	●
CLEAN OUT	⊙ CO	⊙
DROP INLET/CATCH BASIN	□ DI, CB	■
FIRE HYDRANT	⊕ FH	⊕
WATER VALVE	⊙ WV	⊕
POST INDICATOR VALVE (PIV)		⊕
FIRE DEPARTMENT CONNECTION (FDC)		⊕
THRUST BLOCKING		⊕
SANITARY SEWER STRUCTURE IDENTIFICATION		1

GENERAL NOTES-UTILITY

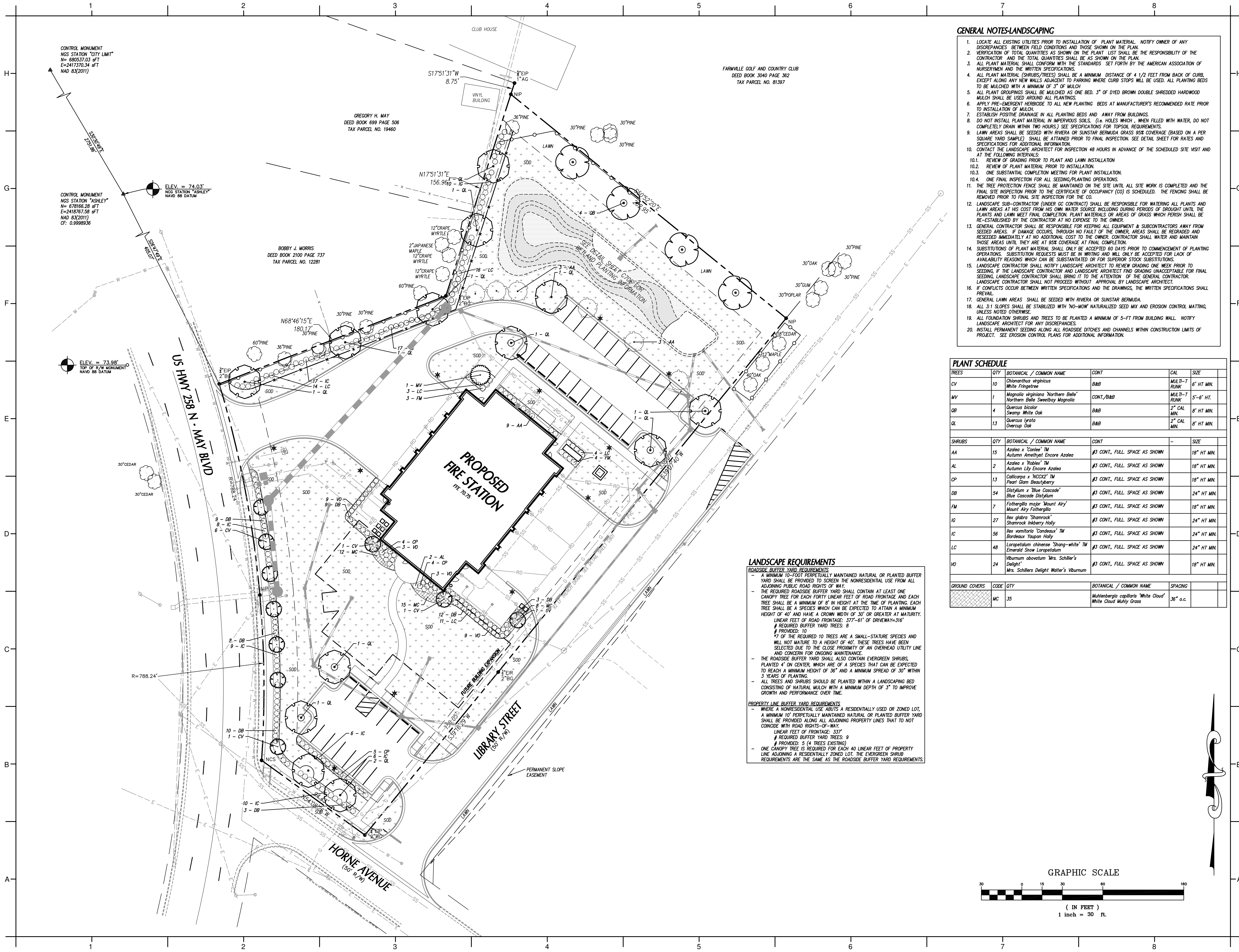
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF FARMVILLE AND NC DOT STANDARDS, SPECIFICATIONS AND DETAILS.
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 3'-FT.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4'-FT TO FINISH GRADE IN TRAFFIC AREAS.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
- SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24"-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSCB AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- ALL ROOF DRAINS SHALL BE 4" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
- ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 0.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
- ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
- NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C802.
- (B) 6"x6" TAPPING SLEEVE, VALVE AND BLOCKING ASSEMBLY SEE SHEET C802 AND SPECIFICATIONS.
- (C) 6"x2" TAPPING SADDLE
- (D) 2" DOMESTIC WATER METER, SEE DETAIL SHEET C802.
- (E) 2" DOUBLE CHECK VALVE ASSEMBLY, SEE DETAIL SHEET C802.
- (F) APPROXIMATE LOCATION GAS METER AND GAS SERVICE LINE. COORDINATE WITH LOCAL UTILITY FOR ROUTING OF SERVICE LINE. SEE MECHANICAL PLANS FOR GAS METER LOCATION AND INFORMATION.
- (G) NEW SANITARY SEWER CLEANOUT, SEE DETAIL SHEET C803.
- (H) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO MEP PLANS FOR LOCATION AND INVERTS.
- (I) GENERATOR SHOWN FOR COORDINATION ONLY. REFER TO MEP PLANS.
- (J) OIL/WATER SEPARATOR SHOWN FOR COORDINATION ONLY. REFER TO MEP PLANS.
- (K) DOWNSPOUT CONNECTION, SEE DETAIL SHEET C801.
- (L) IN-LINE DRAIN, SEE DETAIL SHEET C801.
- (M) LIGHT POLE, SHOWN ON CIVIL PLANS FOR REFERENCE ONLY, SEE LIGHTING/ELECTRICAL DRAWINGS.
- (N) 6" REDUCED PRESSURE DETECTOR ASSEMBLY, SEE DETAIL SHEET C803.
- (O) DASHED SANITARY SERVICE BY PLUMBING CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- (P) FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C803.
- (Q) ROOF DRAIN CLEANOUT, SEE DETAIL SHEET C801.
- (R) TRANSFORMER SHOWN FOR COORDINATION ONLY, SEE ELECTRICAL DRAWINGS.







- GENERAL NOTES-LANDSCAPING**
1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
  2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
  3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSEMEN AND THE WRITTEN SPECIFICATIONS.
  4. ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4 1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED. ALL PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" OF MULCH.
  5. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3" OF DYED BROWN DOUBLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS.
  6. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
  7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
  8. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS. (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
  9. LAWN AREAS SHALL BE SEEDED WITH RIVERA OR SUNSTAR BERMUDA GRASS 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  10. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
    - 10.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION
    - 10.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
    - 10.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
    - 10.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
  11. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
  12. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
  13. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND RESEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
  14. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
  15. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
  16. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
  17. GENERAL LAWN AREAS SHALL BE SEEDED WITH RIVERA OR SUNSTAR BERMUDA.
  18. ALL 3:1 SLOPES SHALL BE STABILIZED WITH NO-MOW NATURALIZED SEED MIX AND EROSION CONTROL MATTING, UNLESS NOTED OTHERWISE.
  19. ALL FOUNDATION SHRUBS AND TREES TO BE PLANTED A MINIMUM OF 5'-FT FROM BUILDING WALL. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
  20. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

PLANT SCHEDULE				
TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL SIZE
CV	10	Chionanthus virginicus White Fringetree	B&B	MULTI-T RUNK 8" HT MIN.
MV	1	Magnolia virginiana 'Northern Belle' Northern Belle Sweetbay Magnolia	CONT, B&B	MULTI-T RUNK 5'-6" HT.
OB	4	Quercus bicolor Swamp White Oak	B&B	2" CAL MIN. 8" HT MIN.
QL	13	Quercus lyrata Overcup Oak	B&B	2" CAL MIN. 8" HT MIN.
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE
AA	15	Azalea x 'Conlee' TM Autumn Amethyst Encore Azalea	#3 CONT., FULL SPACE AS SHOWN	18" HT MIN.
AL	2	Azalea x 'Robles' TM Autumn Lily Encore Azalea	#3 CONT., FULL SPACE AS SHOWN	18" HT MIN.
CP	13	Calliandra x 'NCCO2' TM Pearl Glam Beautyberry	#3 CONT., FULL SPACE AS SHOWN	18" HT MIN.
DB	54	Distylium x 'Blue Cascade' Blue Cascade Distylium	#3 CONT., FULL SPACE AS SHOWN	24" HT MIN.
FM	7	Fothergilla major 'Mount Airy' Mount Airy Fothergilla	#3 CONT., FULL SPACE AS SHOWN	18" HT MIN.
IG	27	Ilex glabra 'Shamrock' Shamrock Inkberry Holly	#3 CONT., FULL SPACE AS SHOWN	24" HT MIN.
IC	56	Ilex vomitoria 'Condeux' TM Bordeaux Yapon Holly	#3 CONT., FULL SPACE AS SHOWN	24" HT MIN.
LC	48	Loropetalum chinense 'Shang-white' TM Emerald Snow Loropetalum	#3 CONT., FULL SPACE AS SHOWN	24" HT MIN.
VO	24	Viburnum obovatum Mrs. Schiller's Delight Mrs. Schiller's Delight Walter's Viburnum	#3 CONT., FULL SPACE AS SHOWN	18" HT MIN.
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	SPACING
WC	35		Muhlenbergia capillaris 'White Cloud' White Cloud Muhly Grass	36" o.c.

**LANDSCAPE REQUIREMENTS**

**ROADSIDE BUFFER YARD REQUIREMENTS**

- A MINIMUM 10'-FOOT PERPETUALLY MAINTAINED NATURAL OR PLANTED BUFFER YARD SHALL BE PROVIDED TO SCREEN THE NONRESIDENTIAL USE FROM ALL ADJOINING PUBLIC ROAD RIGHTS OF WAY.
- THE REQUIRED ROADSIDE BUFFER YARD SHALL CONTAIN AT LEAST ONE CANOPY TREE FOR EACH FORTY LINEAR FEET OF ROAD FRONTAGE AND EACH TREE SHALL BE A SPECIES WHICH CAN BE EXPECTED TO ATTAIN A MINIMUM HEIGHT OF 40' AND HAVE A CROWN WIDTH OF 30' OR GREATER AT MATURITY. LINEAR FEET OF ROAD FRONTAGE: 377'-61" OF DRIVEWAY=316'
- # REQUIRED BUFFER YARD TREES: 8
- # PROVIDED: 10
- 7 OF THE REQUIRED 10 TREES ARE A SMALL-STATURE SPECIES AND WILL NOT MATURE TO A HEIGHT OF 40'. THESE TREES HAVE BEEN SELECTED DUE TO THE CLOSE PROXIMITY OF AN OVERHEAD UTILITY LINE AND CONCERN FOR ONGOING MAINTENANCE.
- THE ROADSIDE BUFFER YARD SHALL ALSO CONTAIN EVERGREEN SHRUBS, PLANTED 4' ON CENTER, WHICH ARE OF A SPECIES THAT CAN BE EXPECTED TO REACH A MINIMUM HEIGHT OF 36" AND A MINIMUM SPREAD OF 30" WITHIN 3 YEARS OF PLANTING.
- ALL TREES AND SHRUBS SHOULD BE PLANTED WITHIN A LANDSCAPING BED CONSISTING OF NATURAL MULCH WITH A MINIMUM DEPTH OF 3" TO IMPROVE GROWTH AND PERFORMANCE OVER TIME.

**PROPERTY LINE BUFFER YARD REQUIREMENTS**

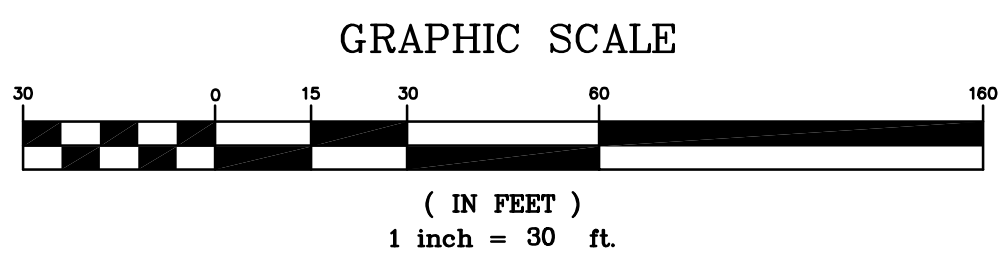
WHERE A NONRESIDENTIAL USE ABUTS A RESIDENTIALLY USED OR ZONED LOT, A MINIMUM 10' PERPETUALLY MAINTAINED NATURAL OR PLANTED BUFFER YARD SHALL BE PROVIDED ALONG ALL ADJOINING PROPERTY LINES THAT TO NOT CONDUCE WITH ROAD RIGHTS-OF-WAY.

LINEAR FEET OF FRONTAGE: 337'

# REQUIRED BUFFER YARD TREES: 9

# PROVIDED: 5 (4 TREES EXISTING)

ONE CANOPY TREE IS REQUIRED FOR EACH 40 LINEAR FEET OF PROPERTY LINE ADJOINING A RESIDENTIALLY ZONED LOT. THE EVERGREEN SHRUB REQUIREMENTS ARE THE SAME AS THE ROADSIDE BUFFER YARD REQUIREMENTS.



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**PROJECT INFORMATION**

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD

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**DKA JOB NUMBER**  
2015  
(CLH JOB NUMBER 20-134)

**REVISIONS**

NO.	DESCRIPTION	DATE

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PA: ZRP/SJM  
PM: YLA  
Drawn By: DAL,DCC,HRW  
Plot Date:

**DATE ISSUED**  
PERMIT & BID SET

06/17/2025

**SHEET TITLE**  
LANDSCAPE PLAN

**C600**



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	- 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 - 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	- 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"><li>• Temporary grass seed covered with straw or other mulches and tackifiers</li><li>• Hydroseeding</li><li>• Rolled erosion control products with or without temporary grass seed</li><li>• Appropriately applied straw or other mulch</li><li>• Plastic sheeting</li></ul>	<ul style="list-style-type: none"><li>• Permanent grass seed covered with straw or other mulches and tackifiers</li><li>• Geotextile fabrics such as permanent soil reinforcement matting</li><li>• Hydroseeding</li><li>• Shrubs or other permanent plantings covered with mulch</li><li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li><li>• Structural methods such as concrete, asphalt or retaining walls</li><li>• Rolled erosion control products with grass seed</li></ul>

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

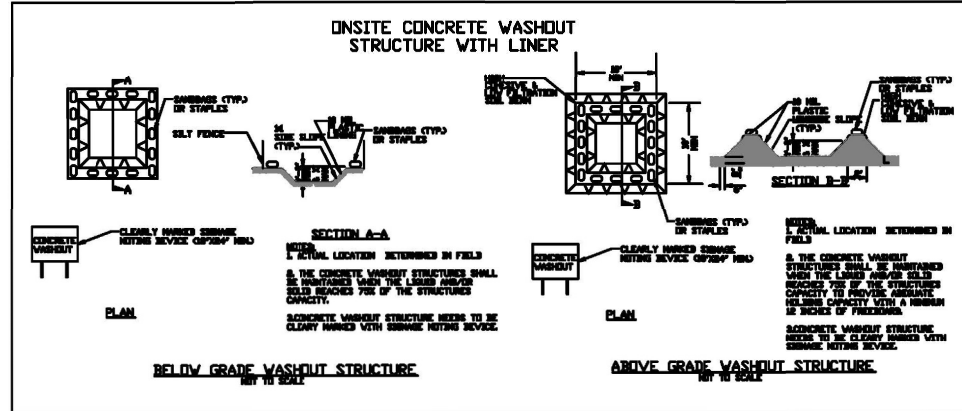
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sited and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, surface waters, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Frost-free stable storage access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

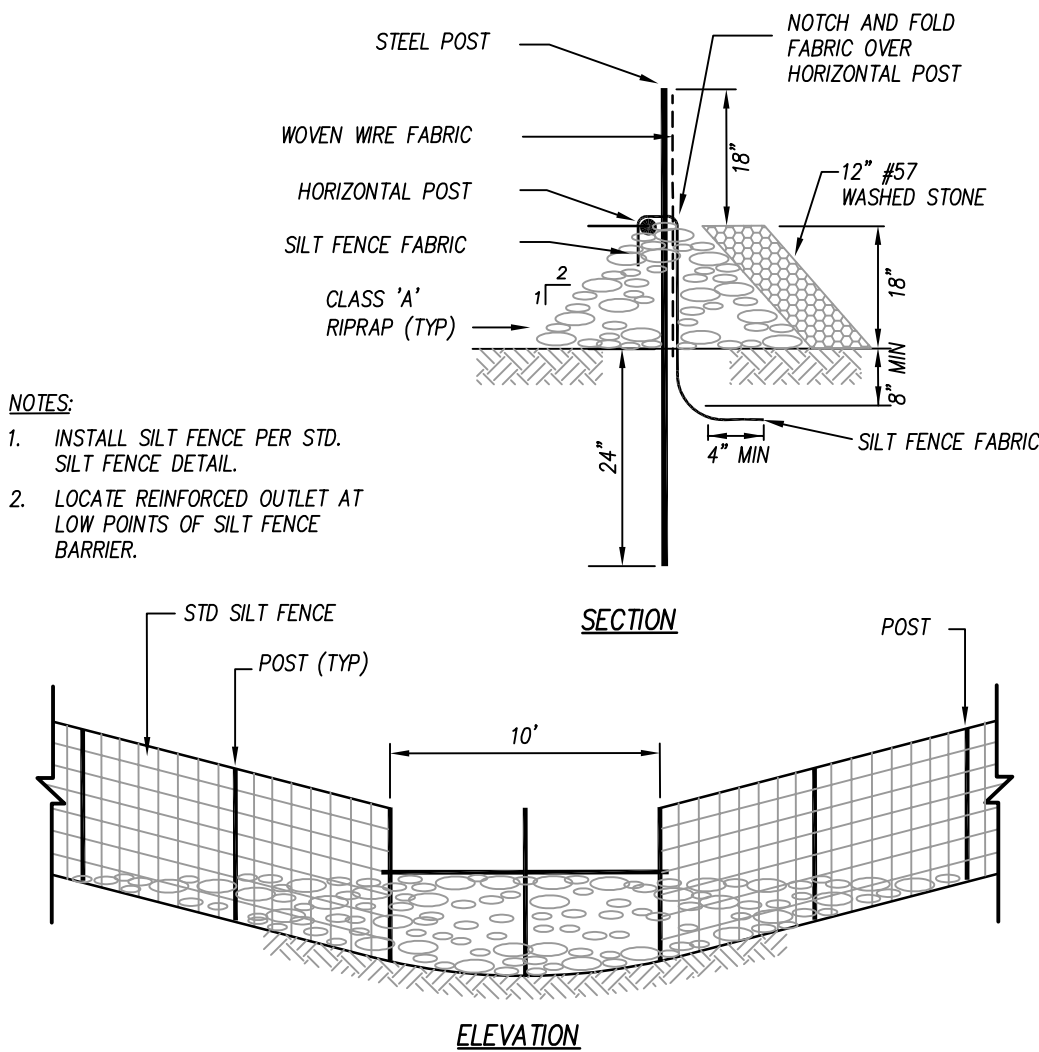
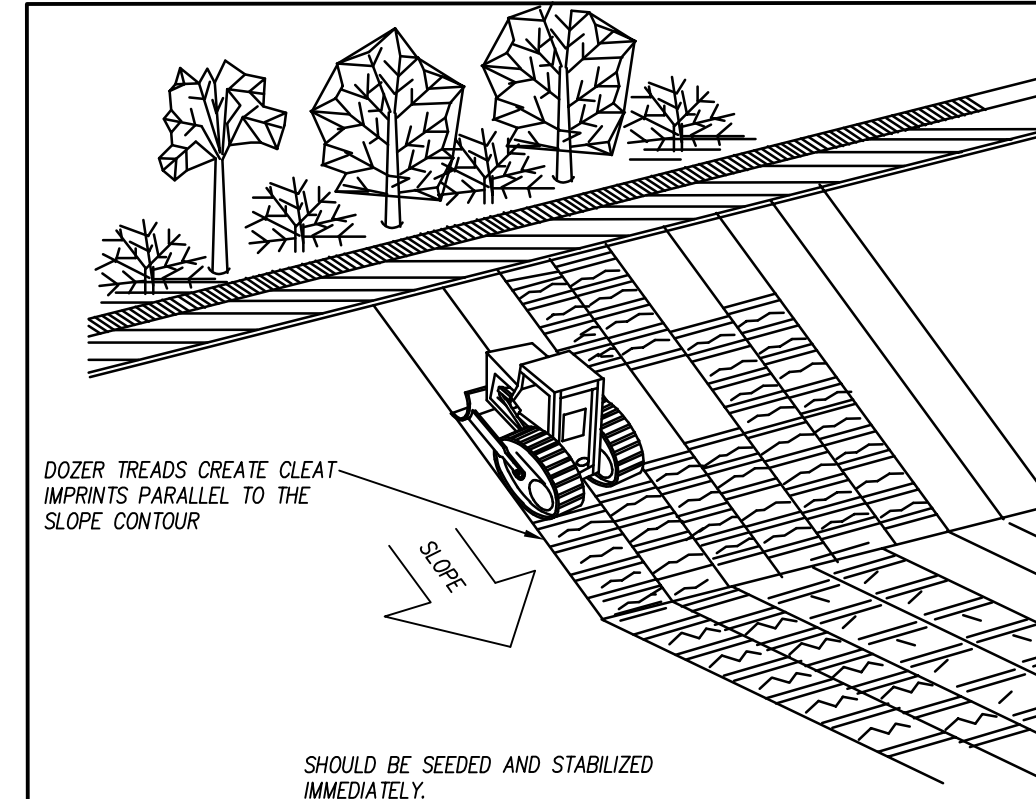
1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials on-site.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.



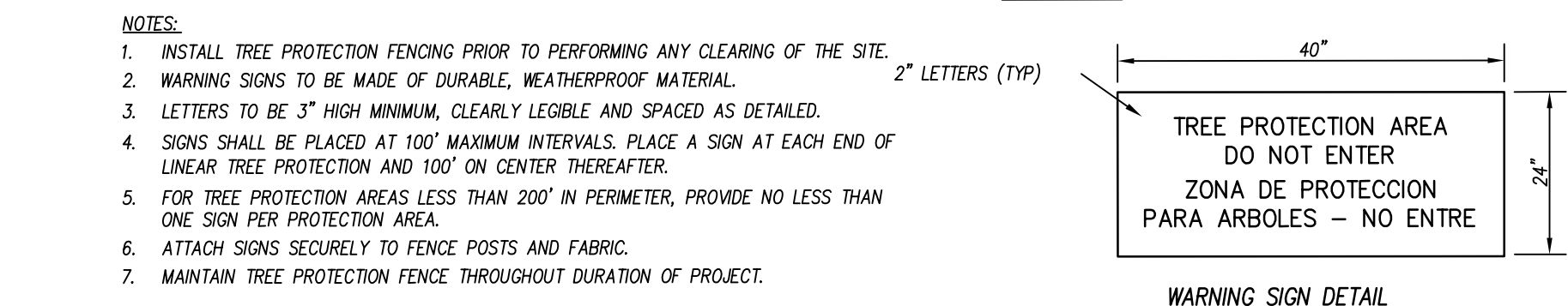
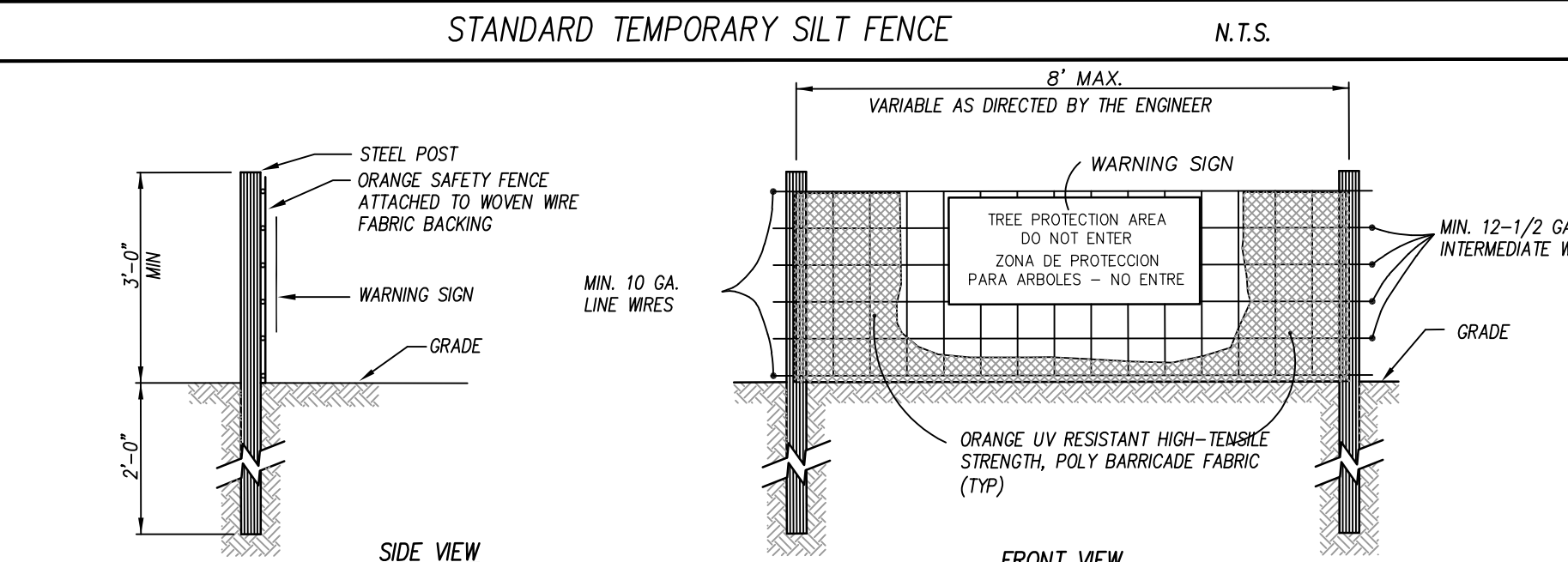
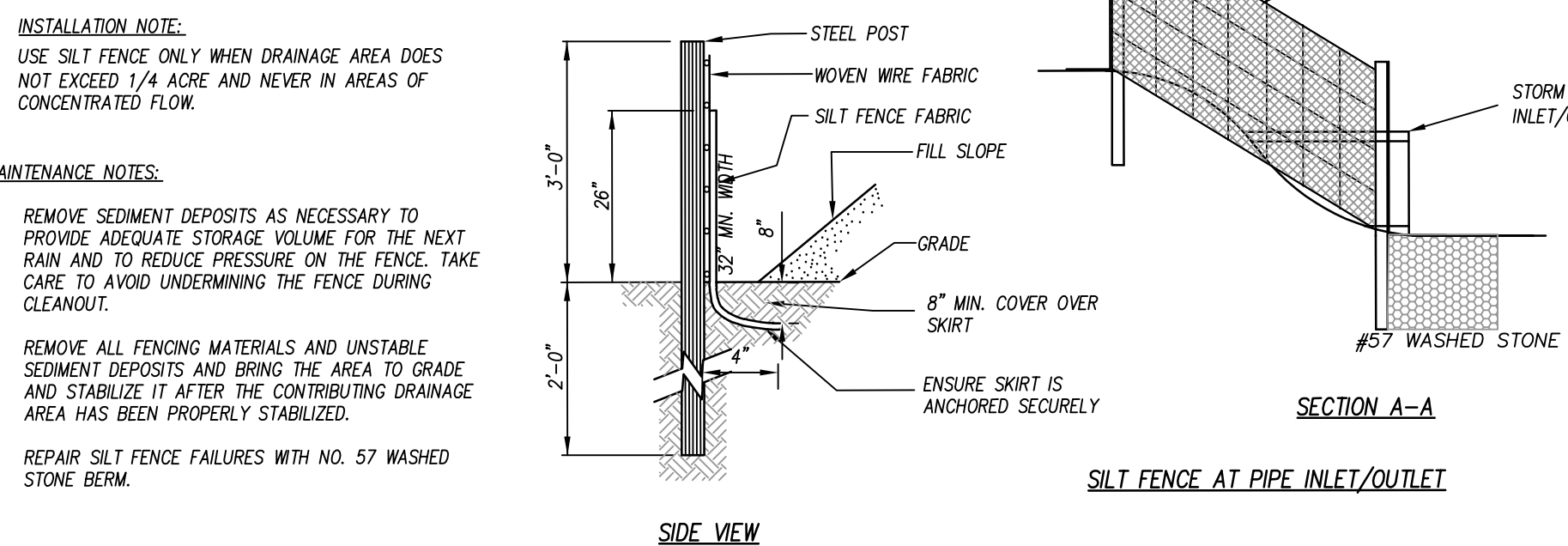
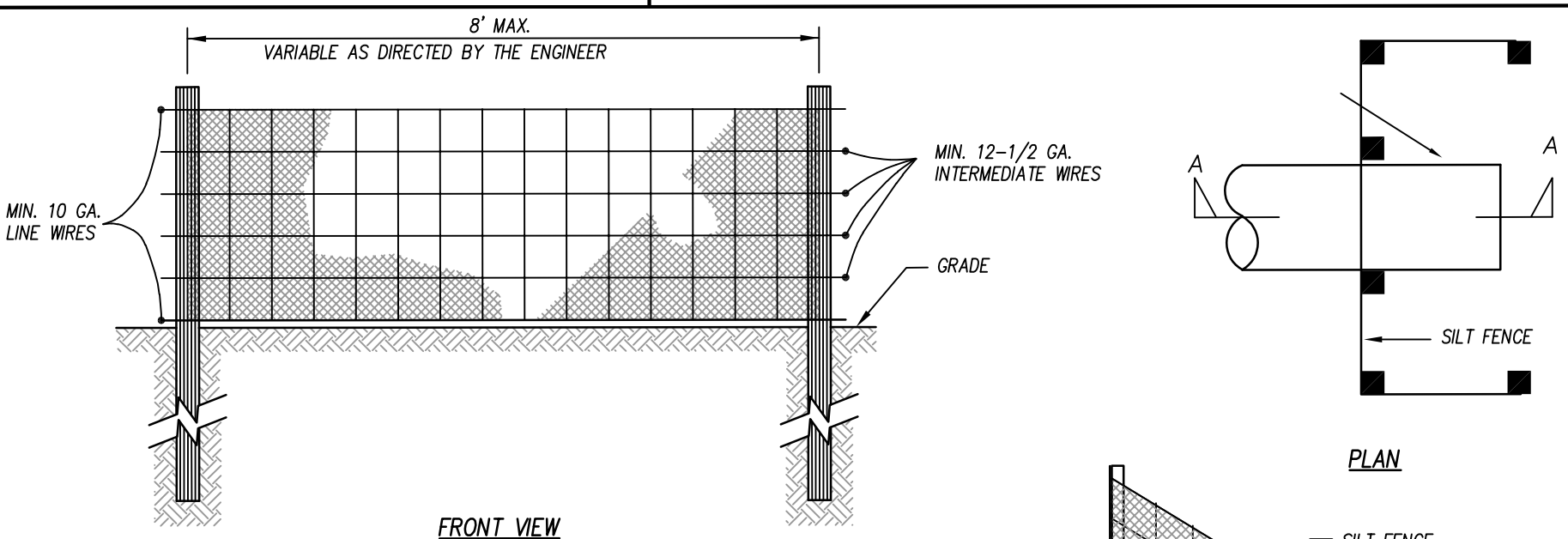
- MAINTENANCE NOTES:**
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
  2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SLOPE TRACKING

N.T.S.

REINFORCED SILT FENCE OUTLET

N.T.S.



PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual city rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-measuring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event $\geq 1.0$ inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (DQOs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq 1.0$ inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event $\geq 1.0$ inch in 24 hours	If visible sediment is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq 1.0$ inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

**NOTE:** The rain inspection resets the required 7 calendar day inspection requirement.

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

**1. E&SC Plan Documentation**  
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

**2. Additional Documentation**  
In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and/or inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

**1. Occurrences that must be reported**  
Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"><li>• <b>Within 24 hours</b>, an oral or electronic notification.</li><li>• <b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li><li>• If the stream is named on the <i>NC 302(a) list</i> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li></ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"><li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li></ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li>• <b>A report at least ten days before the date of the bypass, if possible</b>. The report shall include an evaluation of the anticipated quality and effect of the bypass.</li></ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li>• <b>Within 24 hours</b>, an oral or electronic notification.</li><li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li></ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(i)(7)]	<ul style="list-style-type: none"><li>• <b>Within 24 hours</b>, an oral or electronic notification.</li><li>• <b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6)].</li><li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li></ul>



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

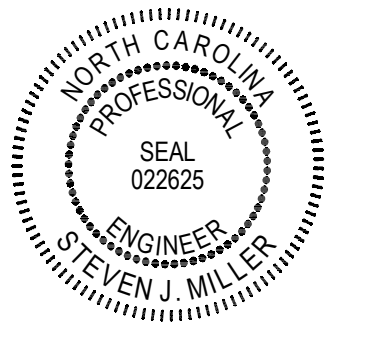
NCDEQ STANDARD NOTES N.T.S.



PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD

SEALS



DKA JOB NUMBER  
2015

(CLH JOB NUMBER 20-134)

REVISIONS

NO.	DESCRIPTION

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PA: ZRP/SJM  
YLA  
Drawn By: DAL,DCC,HRW  
Plot Date:

DATE ISSUED

PERMIT & BID SET

06/17/2025

SHEET TITLE

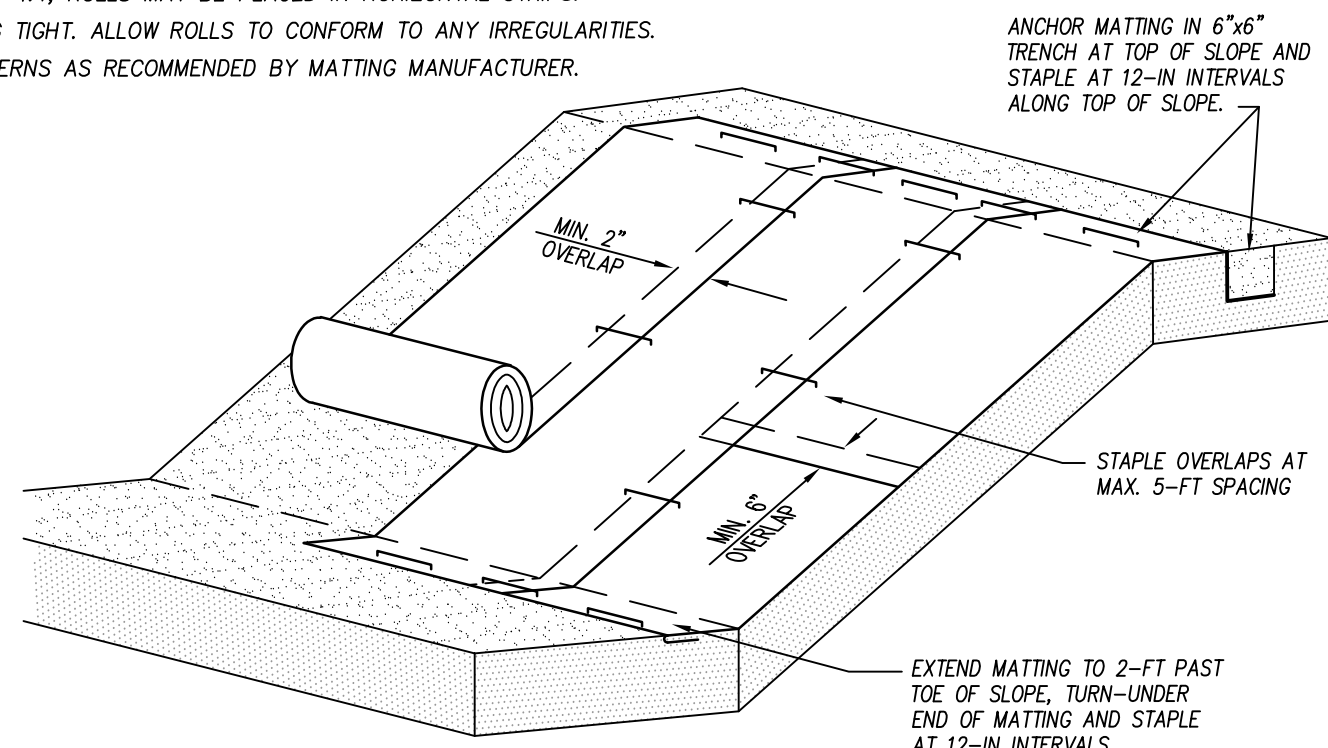
E&SC DETAILS

C701



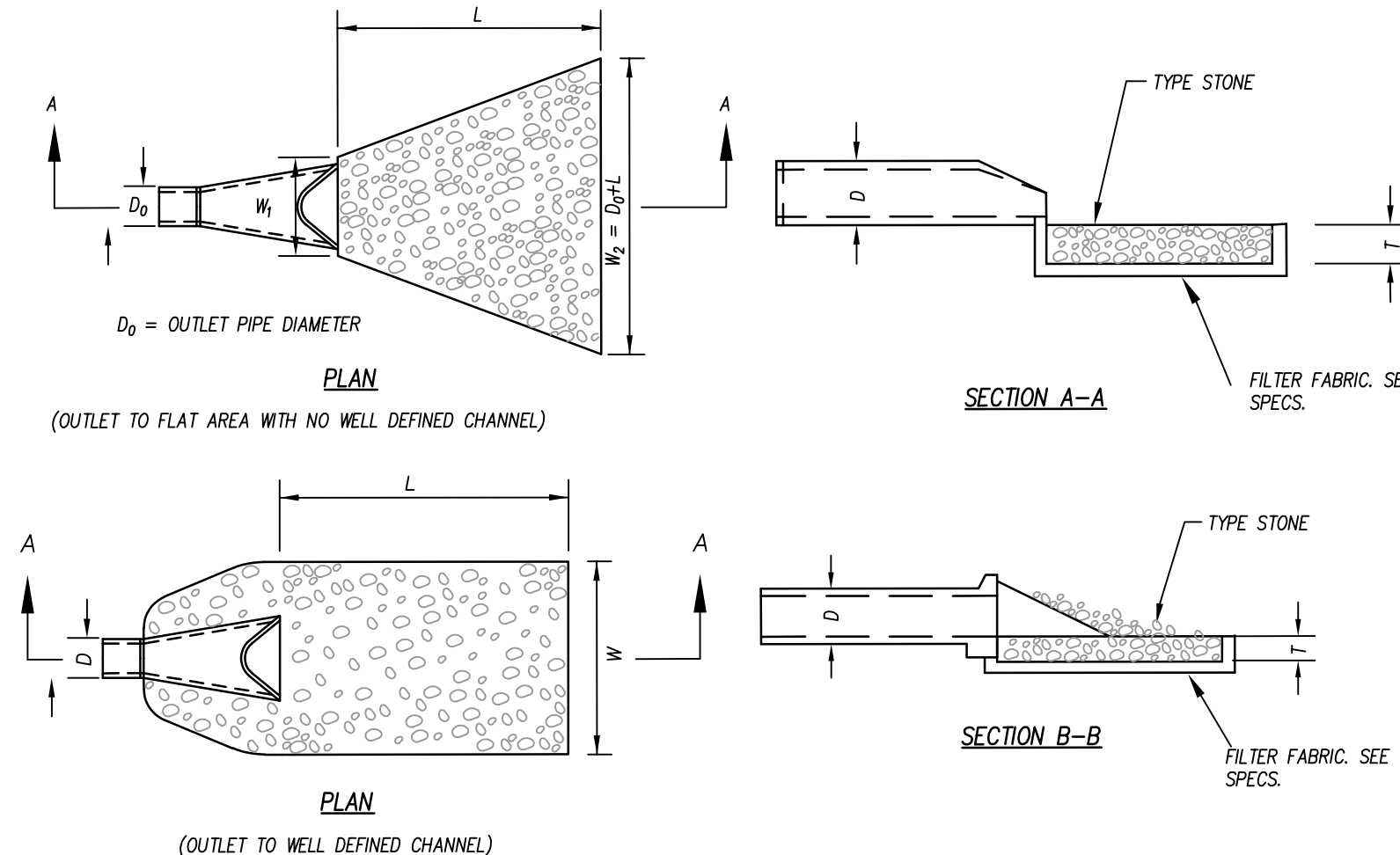
- MAINTENANCE NOTES:**
1. INSPECT MATTING AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2-IN OR GREATER) RAINFALL AND REPAIR IMMEDIATELY AS NEEDED.
  2. ENSURE GOOD CONTACT WITH SOIL SURFACE IS MAINTAINED AND EROSION DOES NOT OCCUR BENEATH MATTING.
  3. AREAS OF MATTING THAT ARE DAMAGED OR WHERE NOT IN CLOSE CONTACT WITH THE SOIL SHALL BE REPAIRED AND STAPLED.
  4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DAMAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREAS PROTECTED.
  5. MONITOR AND REPAIR MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

- NOTES:**
1. SLOPE SURFACE SHALL BE SMOOTH PRIOR TO PLACEMENT OF MATTING TO ENSURE PROPER SOIL CONTACT.
  2. LIME, FERTILIZE, AND SEED PRIOR TO PLACING MATTING. PLANT SHRUBS, TREES, ETC. FOLLOWING PLACEMENT OF MATTING.
  3. ON SLOPES FLATTER THAN 4:1, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS.
  4. DO NOT STRETCH MATTING TIGHT. ALLOW ROLLS TO CONFORM TO ANY IRREGULARITIES.
  5. INSTALL STAPLES IN PATTERNS AS RECOMMENDED BY MATTING MANUFACTURER.



SLOPE PROTECTION MATTING

N.T.S.

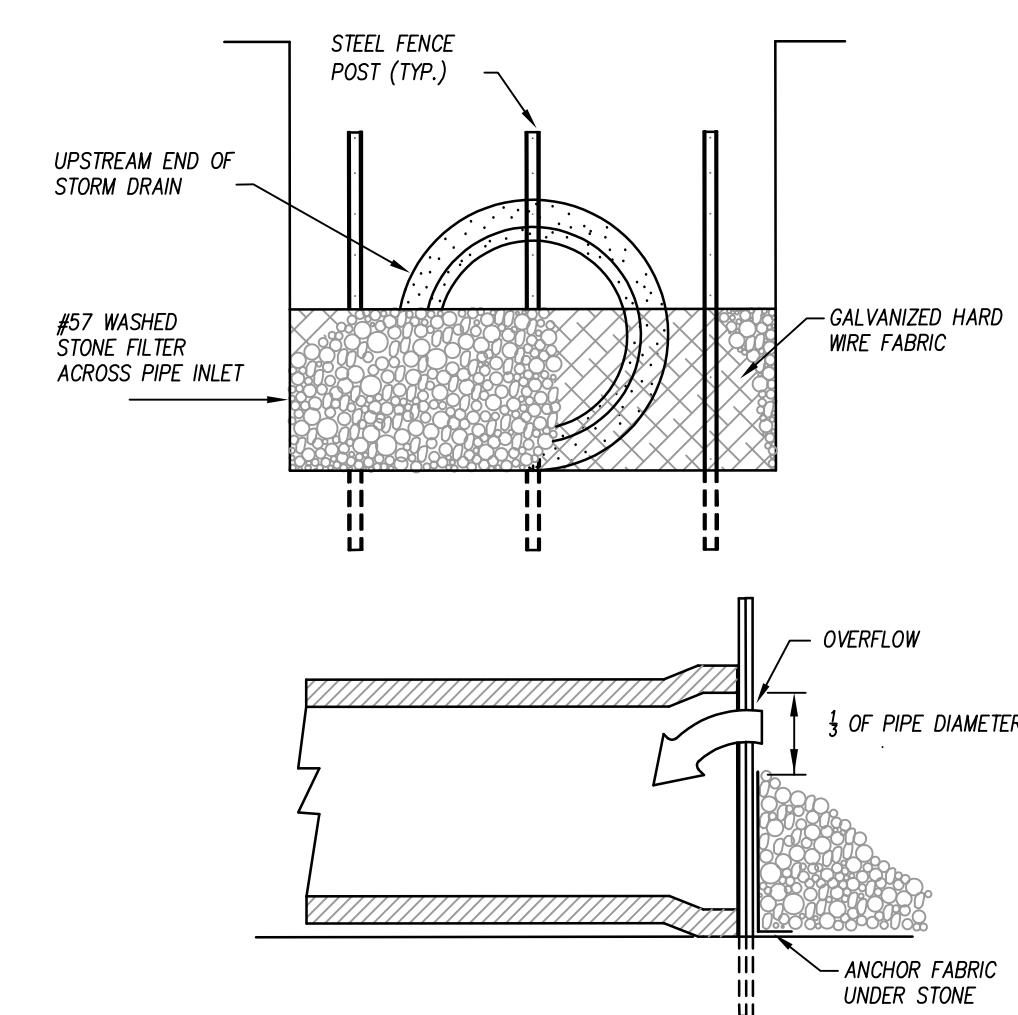


- MAINTENANCE NOTES:**
1. RIP RAP OUTLET STRUCTURES TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT.
  2. REPAIR DISLODGED STONES TO DESIGN DIMENSIONS IMMEDIATELY.
  3. IF MORE SUBSTANTIAL DAMAGE OCCURS, NOTIFY ENGINEER TO DETERMINE A REPAIR SOLUTION.

- NOTES:**
1. TOP OF RIP RAP AT DOWNSTREAM END OF APRON SHALL BE FLUSH WITH NATURAL GRADE OF THE RECEIVING CHANNEL.
  2. VEGETATE ALL DISTURBED AREAS WITH VEGETATION IMMEDIATELY AFTER INSTALLATION.
  3. SEE EROSION CONTROL PLAN FOR APRON DIMENSIONS.

OUTLET PROTECTION

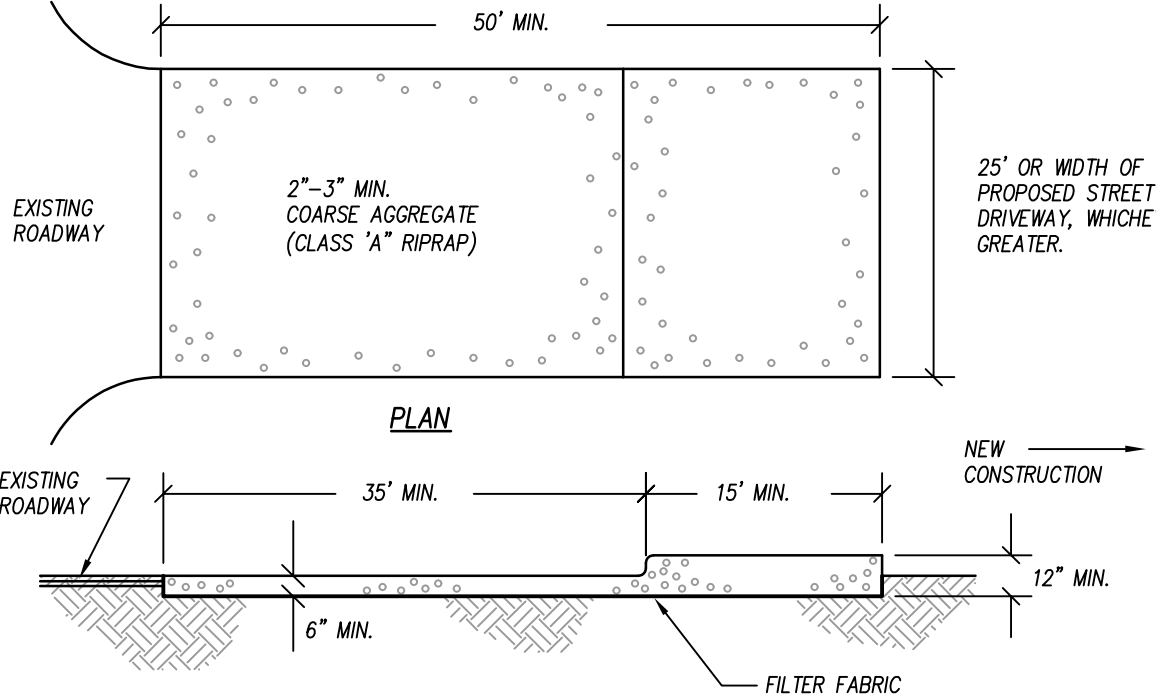
N.T.S.



- MAINTENANCE NOTES:**
1. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
  2. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM REGRADED AND COMPACTED IN ACCORDANCE W/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.

PROTECTION OF STORM DRAIN UNDER CONSTRUCTION

N.T.S.

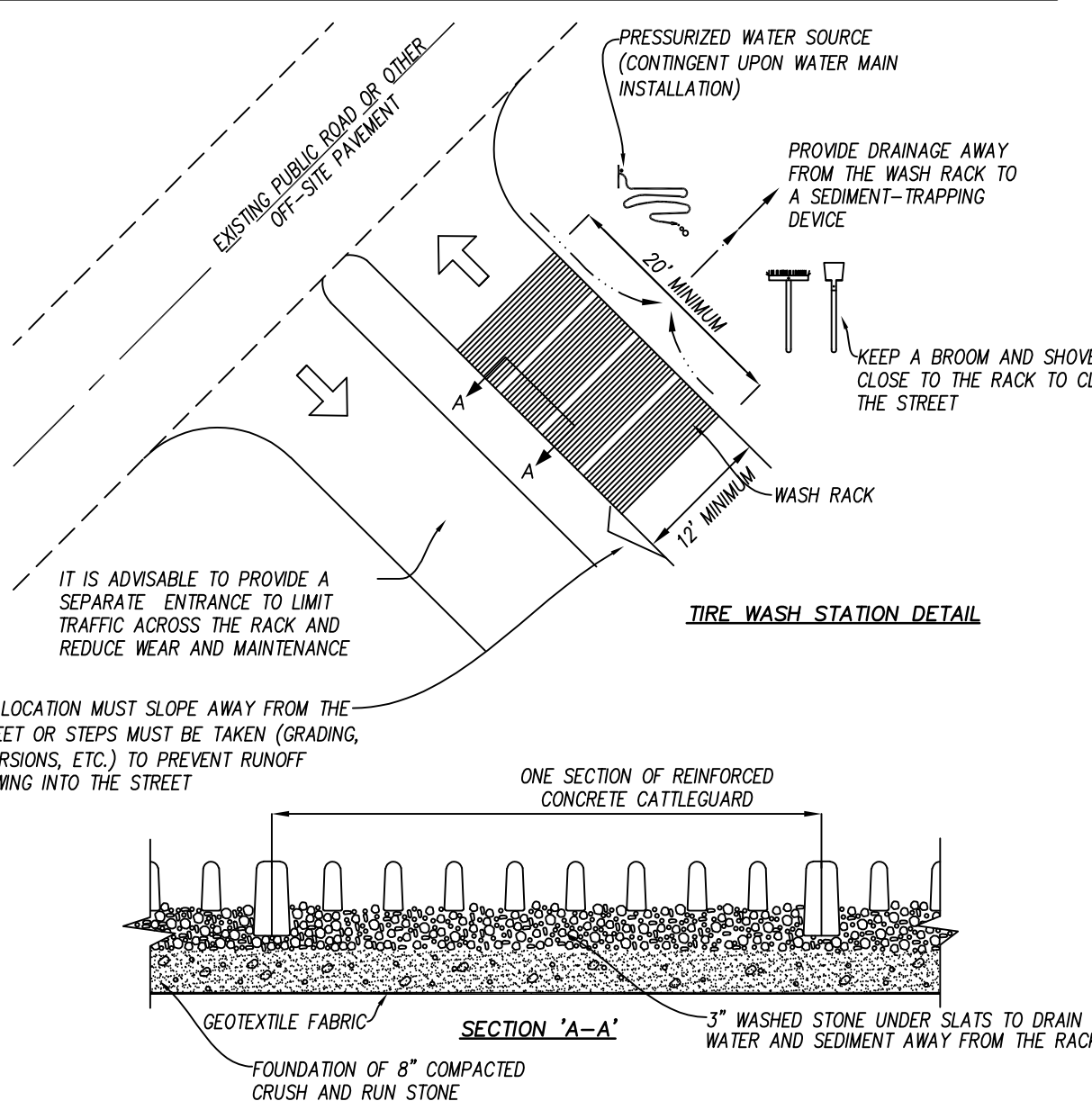


- NOTES:**
1. ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
  2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL TO BE PROVIDED.
  3. ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPORESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
  4. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
  5. FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
  6. NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.

- MAINTENANCE NOTES:**
1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPORESSING WITH 2-INCH STONE.
  2. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.
  3. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.

- CONSTRUCTION SPECIFICATIONS:**
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
  2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
  3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR SUITABLE OTHER OUTLET.
  4. USE GEOTEXTILE FABRIC TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.

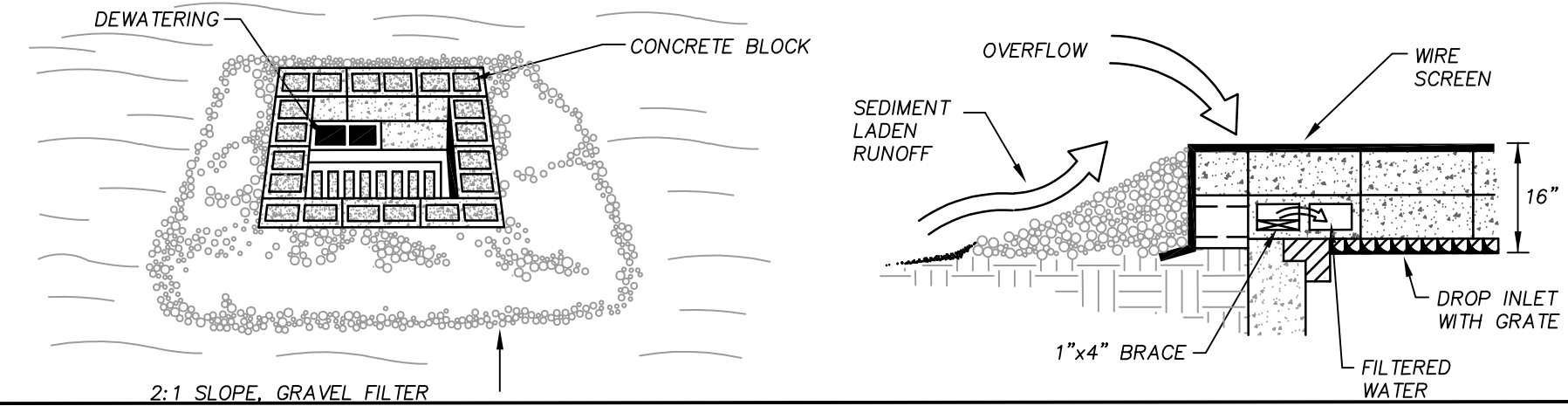


GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

- MAINTENANCE NOTES:**
1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
  2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
  3. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

- NOTES:**
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BLOCKS SHALL BE 12".
  2. WIRE MESH OR HARDWARE CLOTH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS.
  3. #57 WASHED STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
  4. MAINTAIN DEVICE AFTER EACH RAIN. REPLACE #57 WASHED STONE IF IT CLOGS W/ SEDIMENT.
  5. PLACE 1"x4" BOARDS THROUGH THE HOLES OF CORNER BLOCKS.

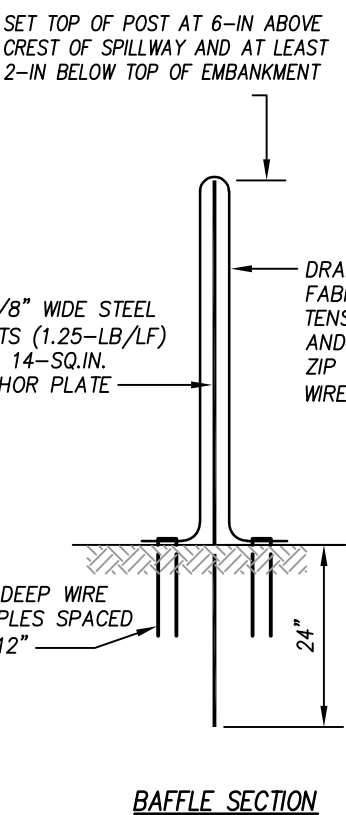


CATCH BASIN AND YARD INLET PROTECTION

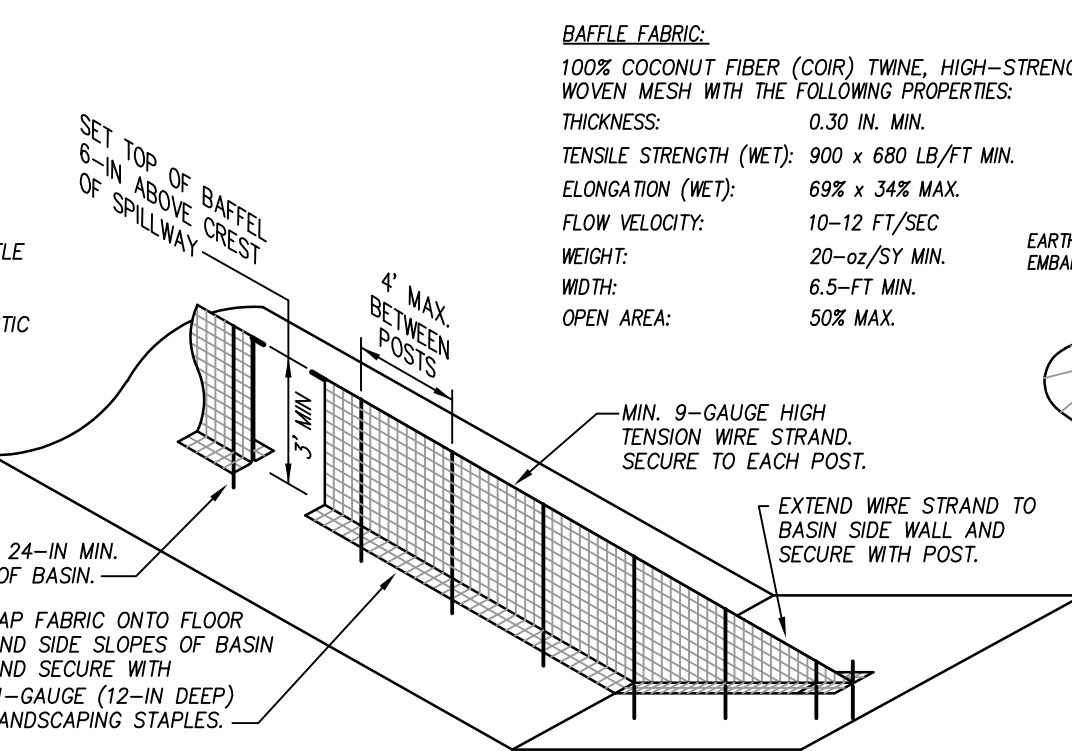
N.T.S.

**MAINTENANCE NOTES:**

1. INSPECT BARRIERS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BARRIERS. SHOULD THE FABRIC OF A BARRIER COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL TO REDUCE PRESSURE ON THE BARRIERS. TAKE CARE TO AVOID DAMAGING THE BARRIERS DURING CLEAN OUT, AND REPLACE IF DAMAGED DURING CLEAN OUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BATTLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS BRING THE AREA TO GRADE AND STABILIZE THE AREA.

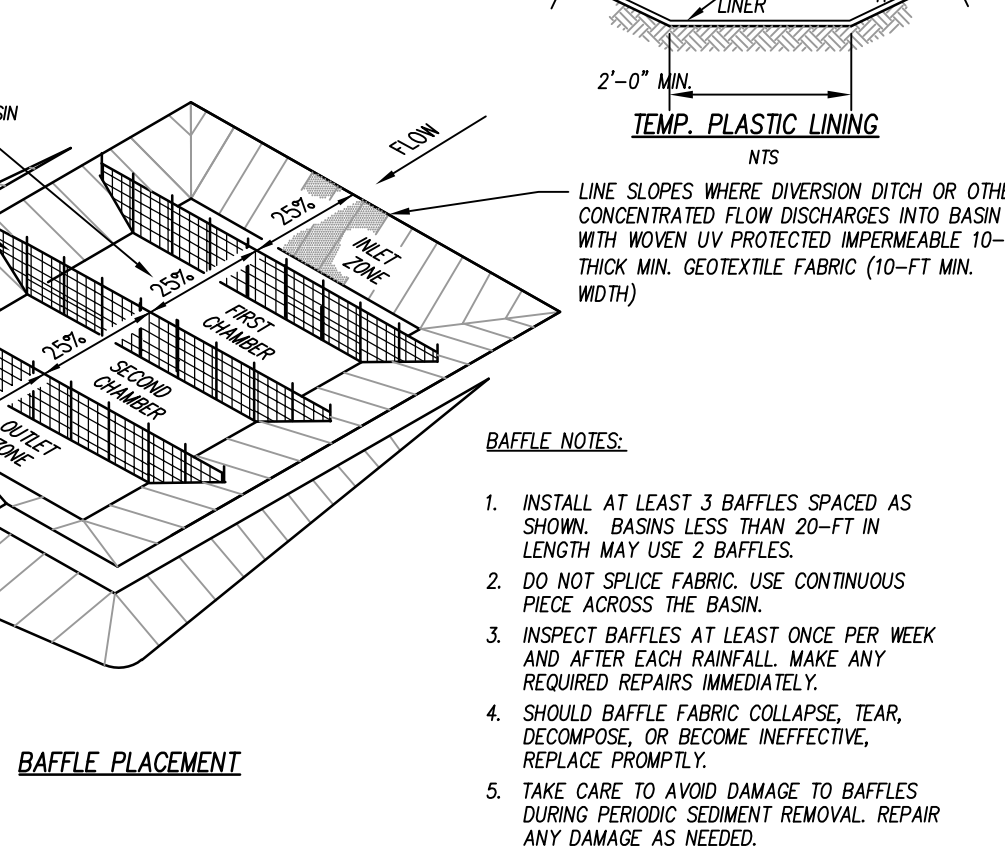


Baffle Section



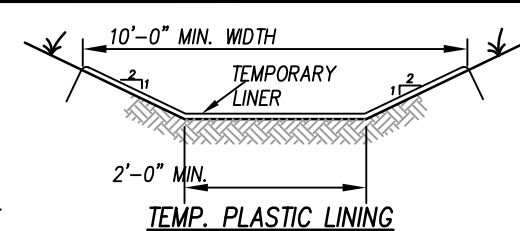
Baffle Installation

TEMPORARY BASIN BARRIERS



Baffle Placement

N.T.S.



TEMP. PLASTIC LINING

LINE SLOPES WHERE DIVERSION DITCH OR OTHER CONCENTRATED FLOW DISCHARGES INTO BASIN WITH WOVEN UV PROTECTED IMPERMEABLE 10-MIL THICK MIN. GEOTEXTILE FABRIC (10-FT MIN. WIDTH)

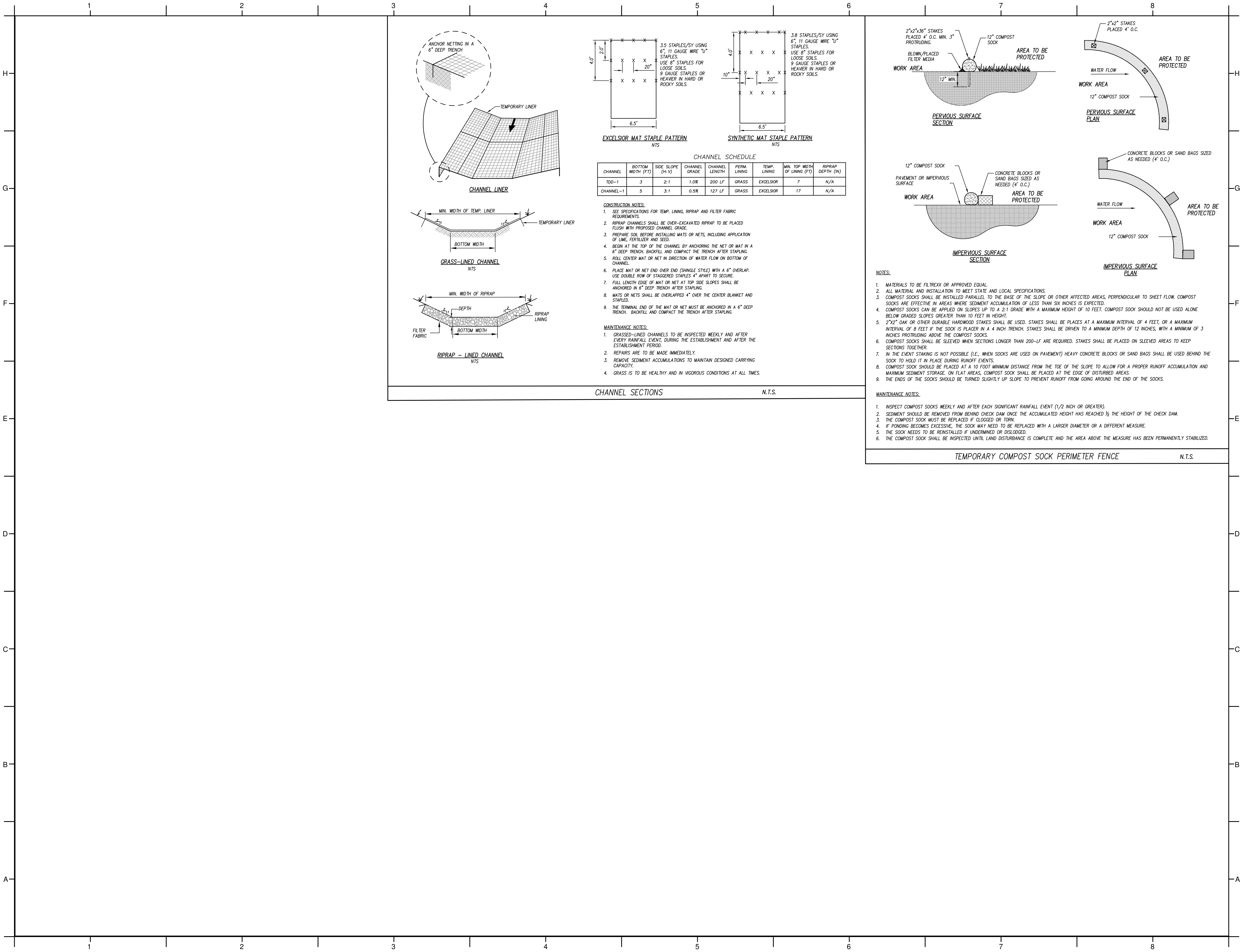
- BAFFLE NOTES:**
1. INSTALL AT LEAST 3 BARRIERS SPACED AS SHOWN. BASINS LESS THAN 20-FT IN LENGTH MAY USE 2 BARRIERS.
  2. DO NOT SPICE FABRIC. USE CONTINUOUS PIECE ACROSS THE BASIN.
  3. INSPECT BARRIERS AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
  4. SHOULD BATTLE FABRIC COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE PROMPTLY.
  5. TAKE CARE TO AVOID DAMAGE TO BARRIERS DURING PERIODIC SEDIMENT REMOVAL. REPAIR ANY DAMAGE AS NEEDED.

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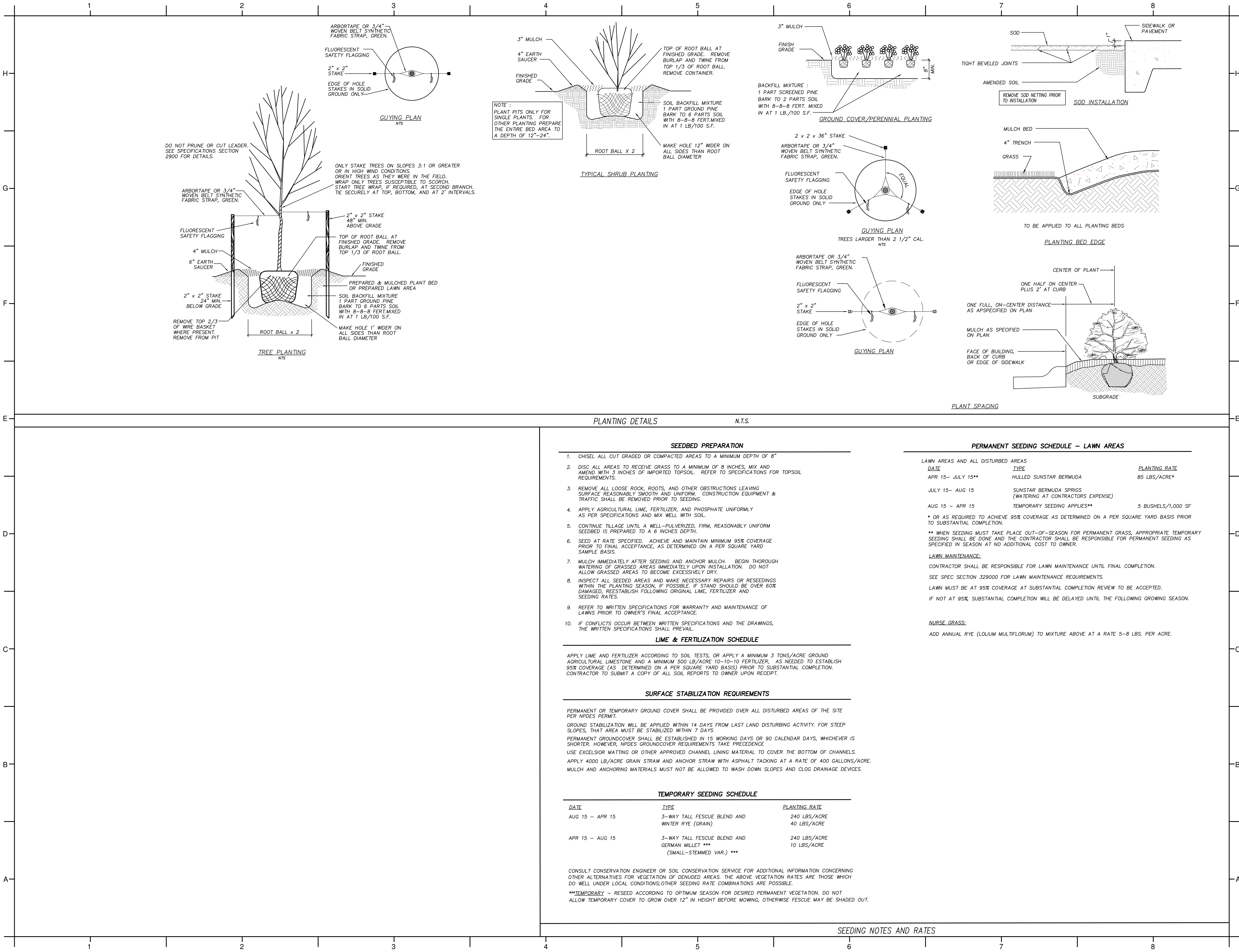
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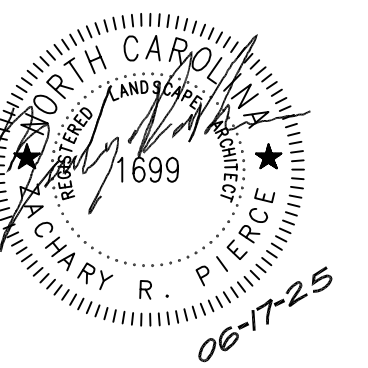


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PROJECT INFORMATION

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SHEET TITLE

LANDSCAPE DETAILS

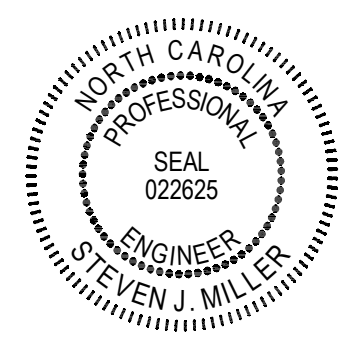
C704



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TOWN OF FARMVILLE  
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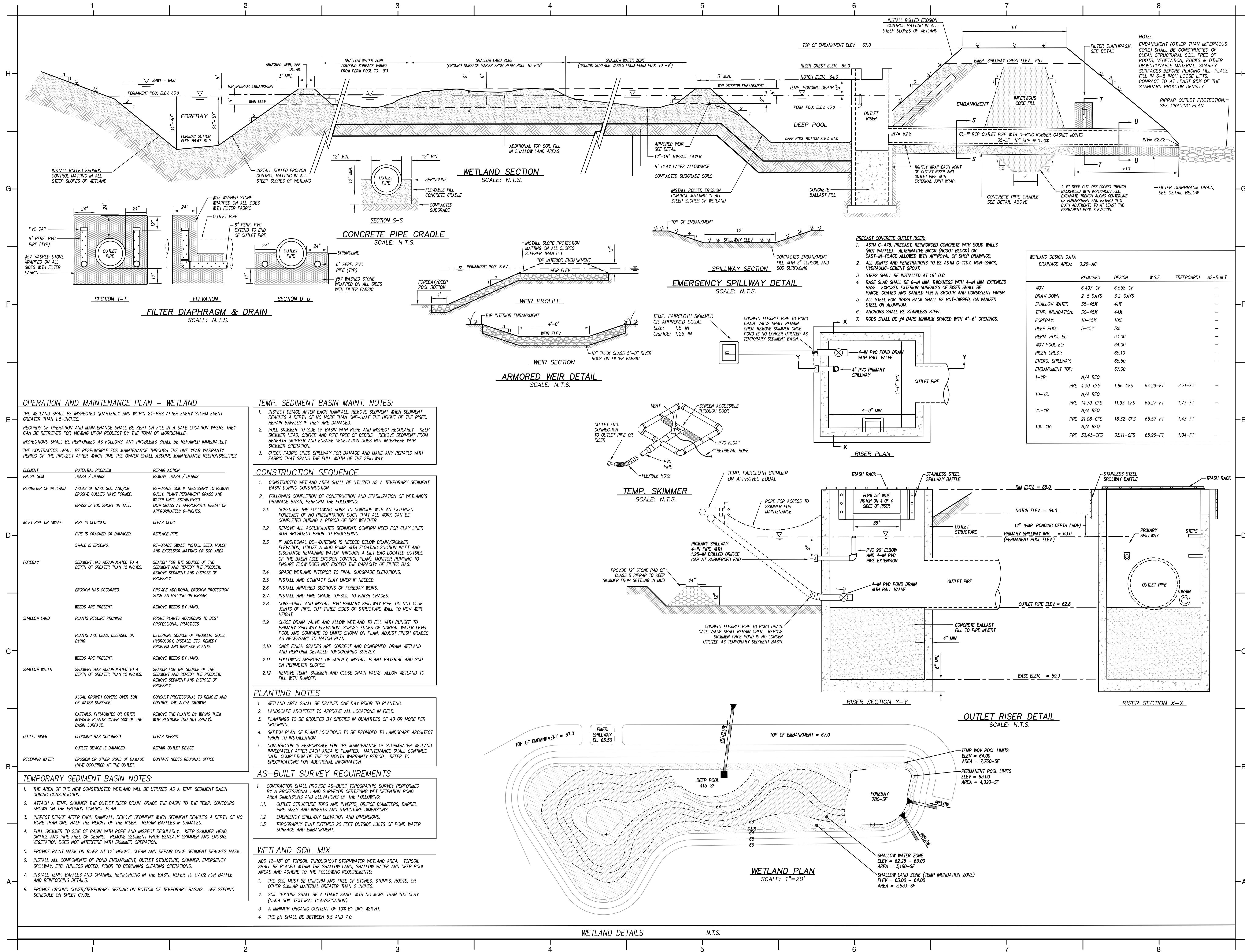
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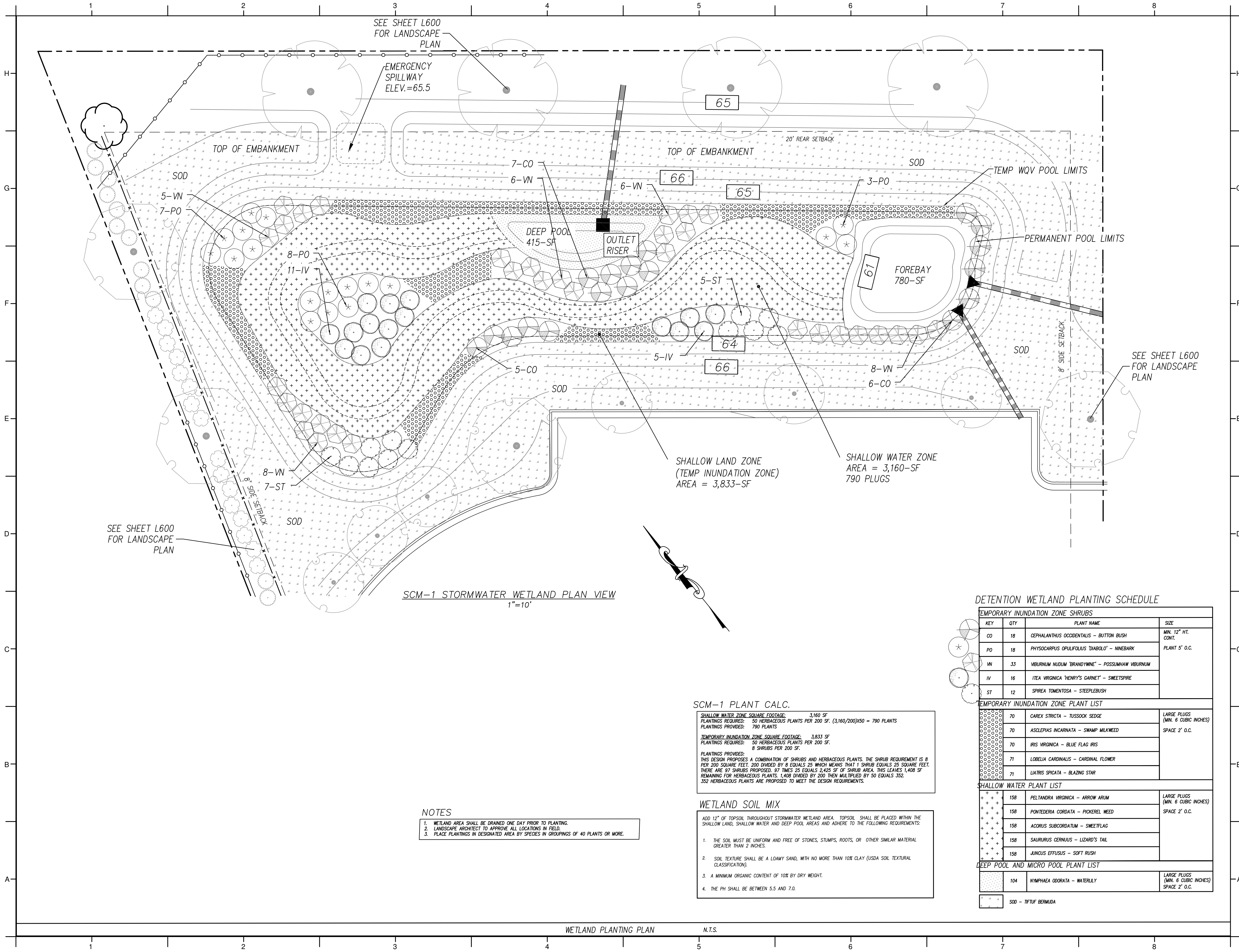
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WETLAND DETAILS

C705







SCM-1 STORMWATER WETLAND PLAN VIEW  
1"=10'

SCM-1 PLANT CALC.

SHALLOW WATER ZONE SQUARE FOOTAGE: 3,160 SF  
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (3,160/200)x50 = 790 PLANTS  
PLANTINGS PROVIDED: 790 PLANTS

TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 3,833 SF  
PLANTINGS REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF.  
8 SHRUBS PER 200 SF.

PLANTINGS PROVIDED:  
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 97 SHRUBS PROPOSED. 97 TIMES 25 EQUALS 2,425 SF OF SHRUB AREA. THIS LEAVES 1,408 SF REMAINING FOR HERBACEOUS PLANTS. 1,408 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 352. 352 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

WETLAND SOIL MIX

ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:

1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.

NOTES

1. WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING.
2. LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
3. PLACE PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 40 PLANTS OR MORE.

DETENTION WETLAND PLANTING SCHEDULE

TEMPORARY INUNDATION ZONE SHRUBS			
KEY	QTY	PLANT NAME	SIZE
CO	18	CEPHALANTHUS OCCIDENTALIS - BUTTON BUSH	MIN. 12" HT. CONT.
PO	18	PHYSOCARPUS OPULIFOLIUS 'DIABOLO' - NINEBARK	PLANT 5' O.C.
VN	33	VBURNUM NUDUM 'BRANDYMYNE' - POSSUMHAW VBURNUM	
IV	16	ITEA VIRGINICA 'HENRY'S GARNET' - SWEETSPICE	
ST	12	SPIREA TOMENTOSA - STEEPLERBUSH	
TEMPORARY INUNDATION ZONE PLANT LIST			
70		CAREX STRICTA - TUSSOCK SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES)
70		ASCLEPIAS INCARNATA - SWAMP MILKWEED	SPACE 2' O.C.
70		IRIS VIRGINICA - BLUE FLAG IRIS	
71		LOBELIA CARDINALIS - CARDINAL FLOWER	
71		LIATIS SPICATA - BLAZING STAR	
SHALLOW WATER PLANT LIST			
158		PELTANDRA VIRGINICA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES)
158		PONTERDERIA CORDATA - PICKEREL WEED	SPACE 2' O.C.
158		ACORUS SUBCORDATUM - SWEETFLAG	
158		SAURURUS CERNUUS - LIZARD'S TAIL	
158		JUNCUS EFFUSUS - SOFT RUSH	
DEEP POOL AND MICRO POOL PLANT LIST			
104		NYMPHAEA ODORATA - WATERLILY	LARGE PLUGS (MIN. 6 CUBIC INCHES) SPACE 2' O.C.
		SOD - TIFTUF BERMUDA	

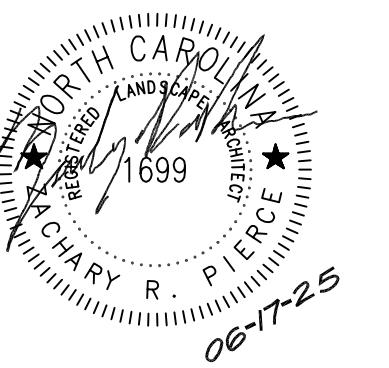


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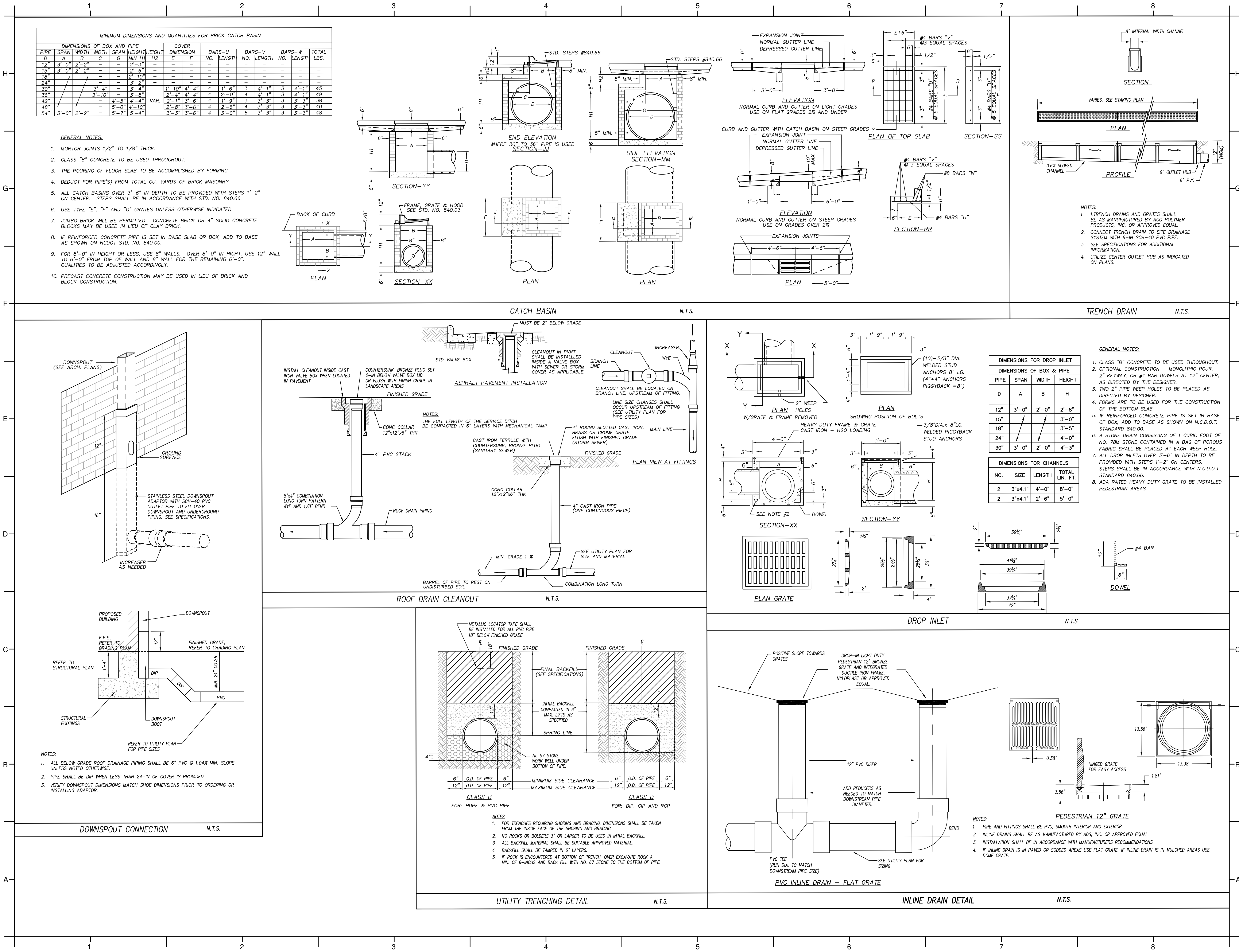
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SHEET TITLE

WETLAND DETAILS

C706





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## SEALS



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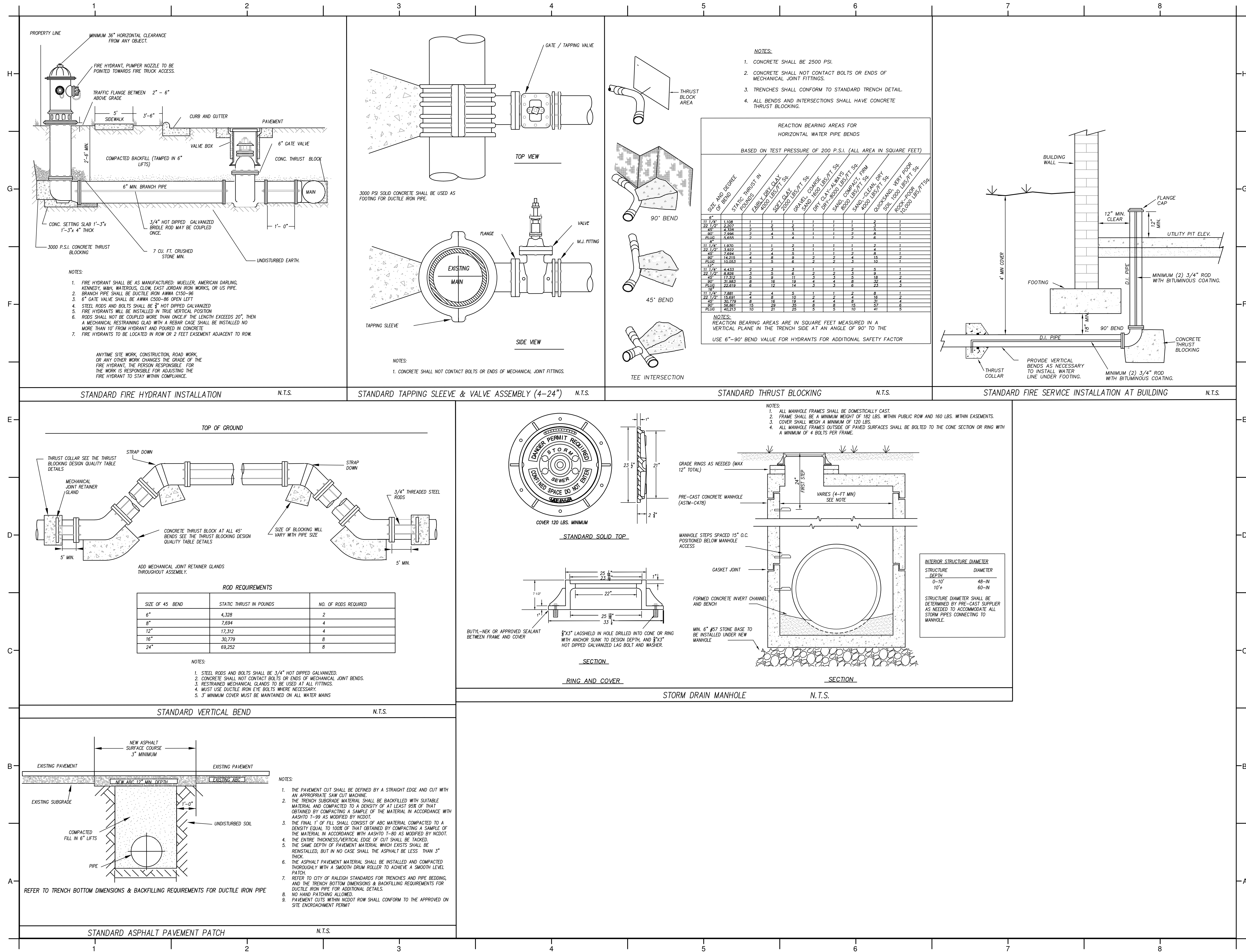

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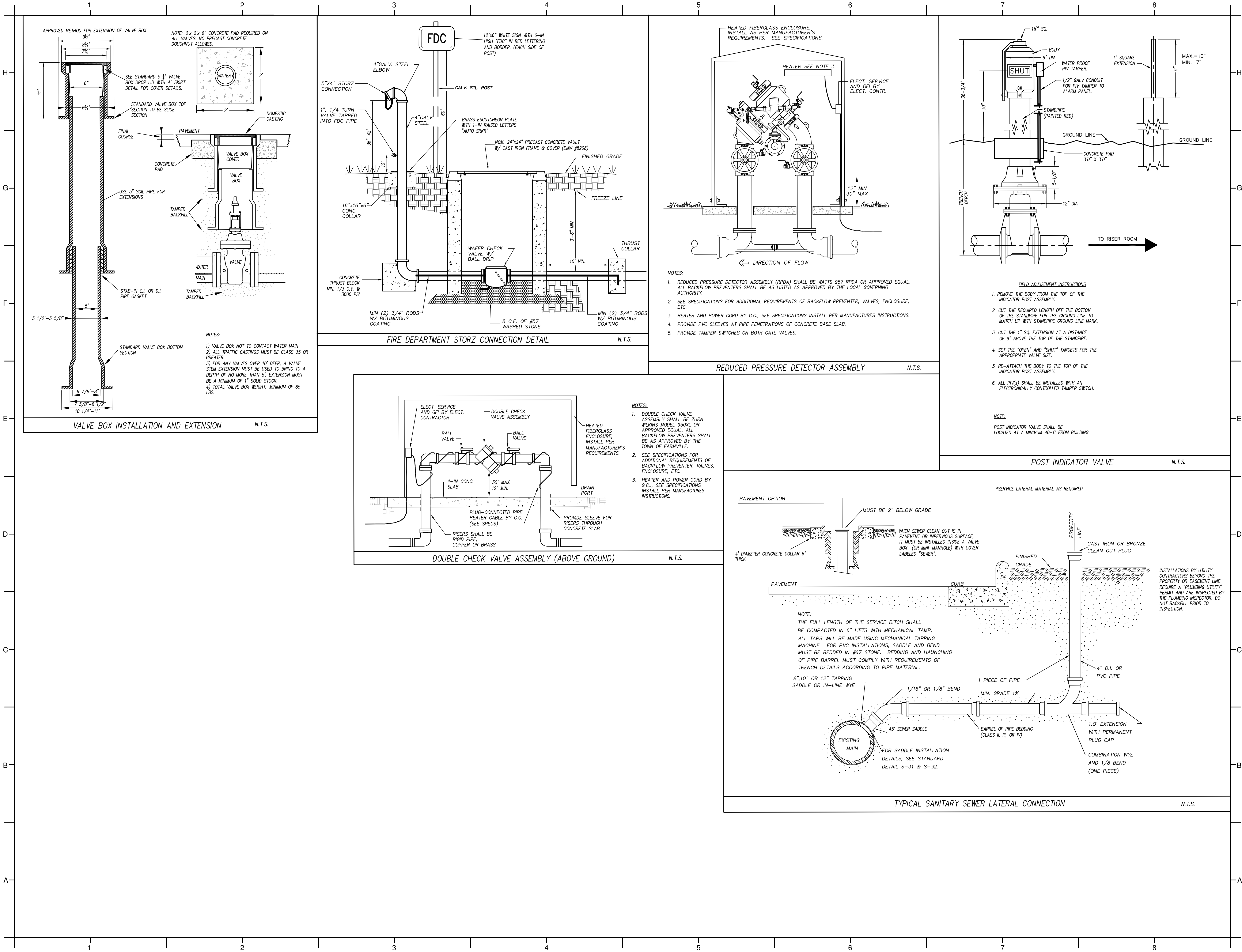
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## STORM & UTILITY DETAILS

# C802





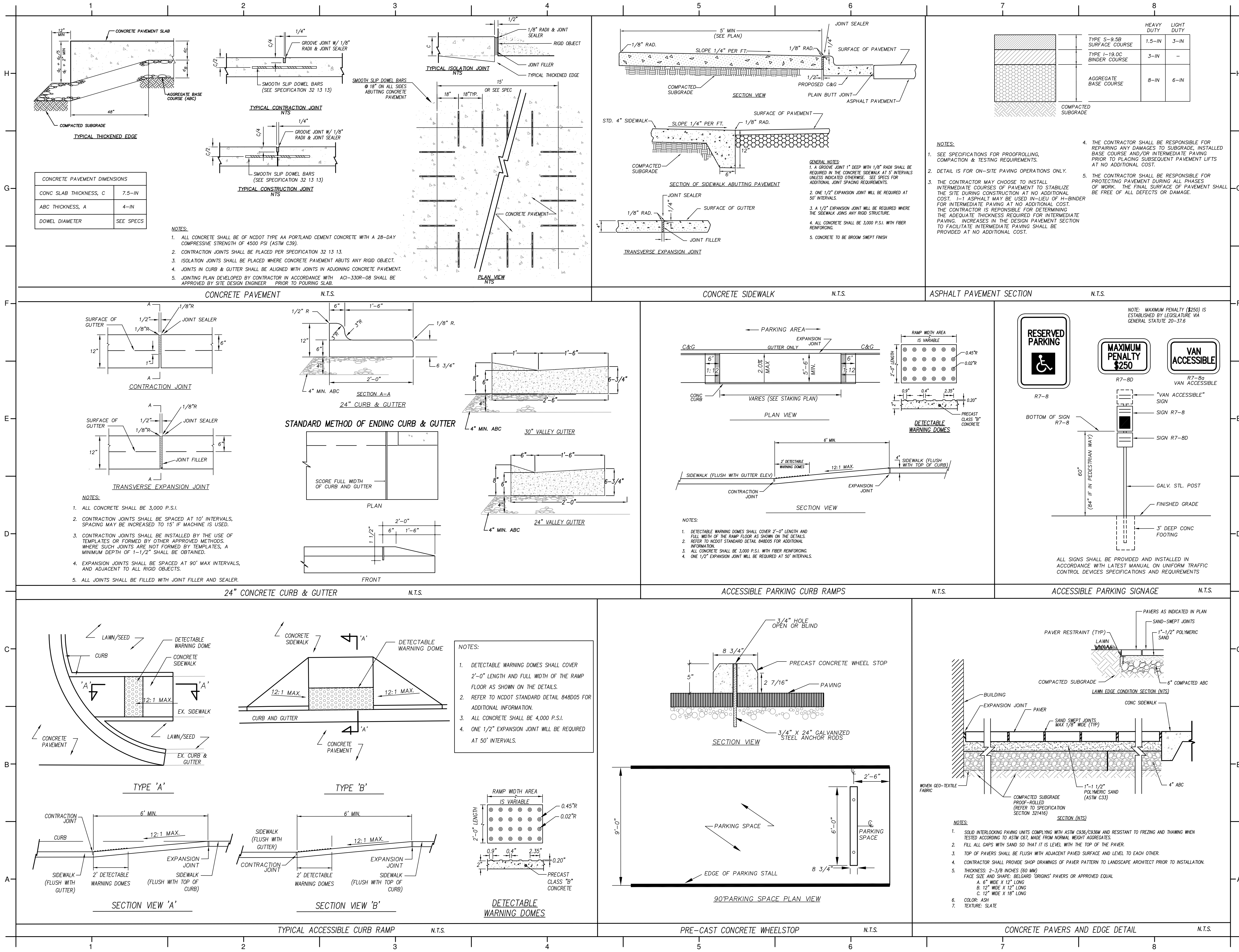


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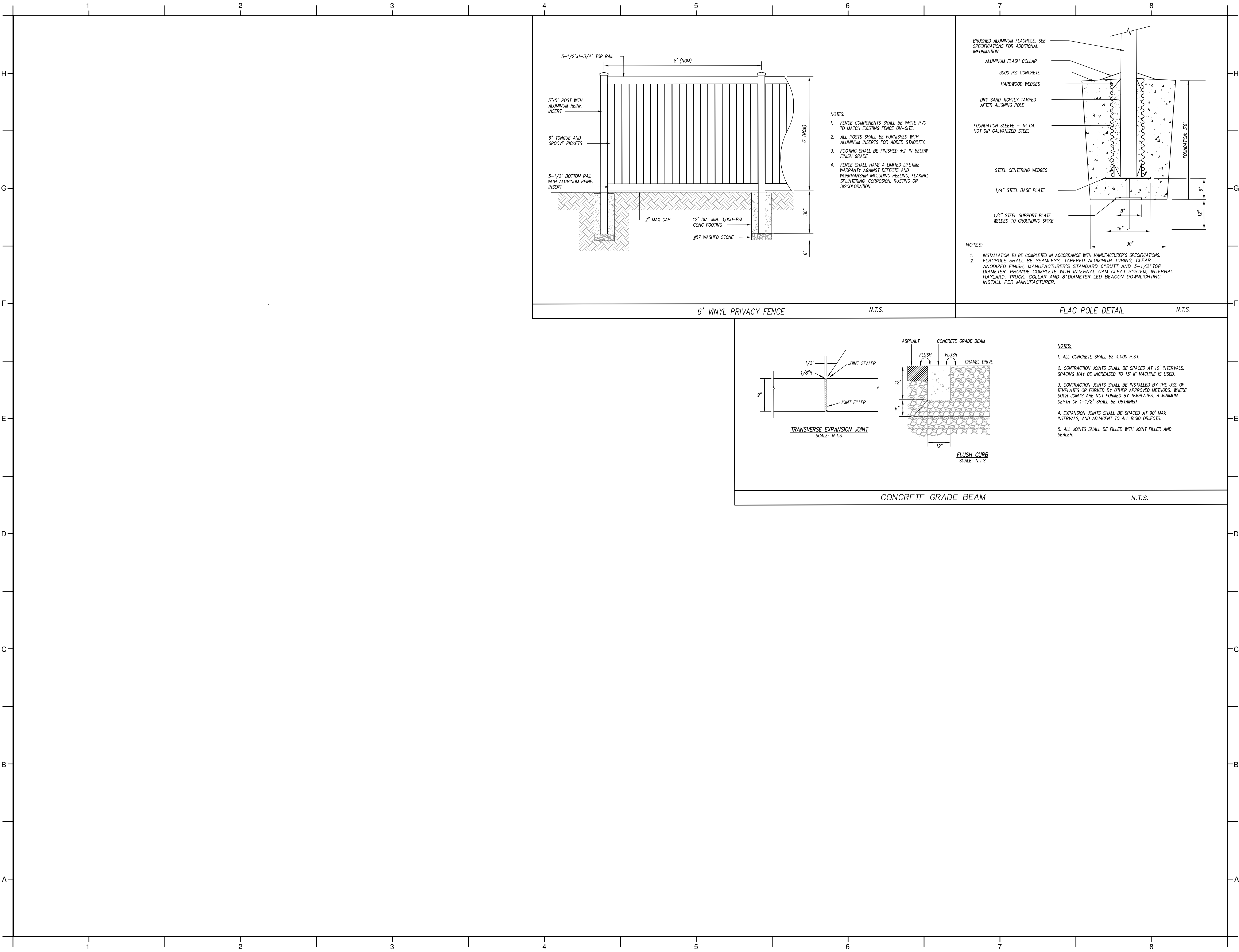
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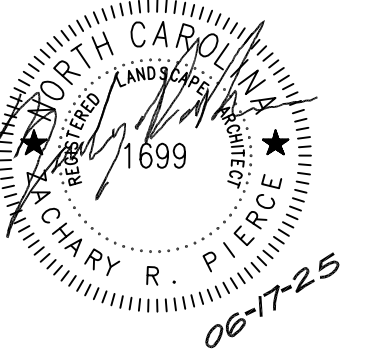




PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
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6101 MAY BOULEVARD

SEALS



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SHEET TITLE

STAKING DETAILS

C902



FLOOR PLAN GENERAL NOTES:

1.

DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
2.

SEE SHEET A002 FOR INTERIOR PARTITION LEGEND AND NOTES. SEE WALL SECTIONS FOR EXTERIOR WALLS, TYP.
3.

ALL HINGE-SIDE DOOR JAMBS IN GYPSUM WALLS TO BE 4" TO THE INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
4.

ALL HINGE-SIDE JAMBS IN CMU WALLS TO BE 4" TO 8" AT A MASONRY HEAD JOINT TO INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
5.

ALL DOORS IN ALCOVES TO BE 18" MIN FROM STRIKE SIDE OF DOOR TO INSIDE OF ADJACENT PERPENDICUALR WALL, UNLESS DIMENSIONED OTHERWISE.
6.

ALL DIMENSIONS TO FACE OF METAL STUD, FACE OF MASONRY, FACE OF CONCRETE, OR COLUMN CENTERLINE, UON.
7.

SEE SHEET I200 FOR FURNITURE, FIXTURES AND EQUIPMENT LEGEND. SEE THIS SHEET FOR TYPICAL ITEM LOCATIONS AND/OR MOUNTING HEIGHTS.
8.

PROVIDE CONTROL JOINTS IN INTERIOR AND EXTERIOR CMU WALLS EVERY 20' O.C. MAX. UON. MAINTAIN 2'-0" MINIMUM FROM JAMBS AT ALL OPENINGS.
9.

PROVIDE CONTROL JOINTS IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK.
10.

SEE KEY NOTES AND NOTES ON PLANS FOR SPECIFIC NOTES FOR EACH DRAWING AREA.
11.

SEE PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION, CIVIL AND STRUCTURAL DRAWINGS FOR RELATED WORK AND ADDITIONAL REQUIREMENTS.
12.

COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO ENSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE.
13.

OPENINGS IN MASONRY WALLS ARE TO RECEIVE LINTEL OR BOND BEAM. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
14.

PROVIDE SEALANT AT JUNCTION OF DIFFERENT MATERIALS UNLESS OTHER MEANS OF SEALING AND CLOSURE ARE SPECIFIED.
15.

INSTALL METAL "F" TRIM IN GWB WALL AT VERTICAL EDGE WHERE GWB WALL MEETS CMU WALL.
16.

PROVIDE THOROUGH FINAL CLEANING THROUGHOUT INTERIOR PRIOR TO OWNER OCCUPANCY. INTERIOR CLEANING TO INCLUDE FLOORS, BASE, WALLS, WALL-MOUNTED EQUIPMENT, FIXTURES, FURNISHINGS, DOORS, WINDOWS, FRAMES, SILLS, CEILINGS, CEILING MOUNTED EQUIPMENT AND FIXTURES.
17.

VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS, COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION.

ABBREVIATIONS

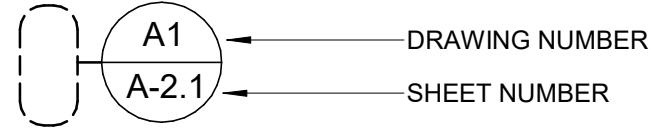
@	AT
AB	ANCHOR BOLT
ACCESS	ACCESSORY
ACT	ACOUSTIC(AL) CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTUR(AL)
AV	AUDIO VISUAL
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CLSM	CLASSROOM
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CR	CARD READER
CSK	COUNTER SUNK
CT	CERAMIC TILE
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EJC	EXPANSION JOINT COVER
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EXTG	EXISTING
FACT	FACTORY FINISH
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH

FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FRP	GLASS FIBER REINFORCED PLASTIC PANELS
FRT	FIRE-RETARDANT-TREATED
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GFRG	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLZ	GLAZING
GWB	GYPSUM WALL BOARD
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HD	HEAVY DUTY
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
KPL	KICKPLATE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LIN	LINOLEUM
LVR	LOUVER
LVT	LUXURY VINYL TILE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBL	MARBLE
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONSTRUCT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHANG
OHD	OVERHEAD
OPCI	OWNER PROVIDED CONTRACTOR INSTALLED
OPNG	OPENING(S)
OPP	OPPOSITE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNT	PAINT(ED)
PROP	PROPERTY
PSF	POUNDS / SQUARE FOOT
PSI	POUNDS / SQUARE INCH
PT	PRESSURE-TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE

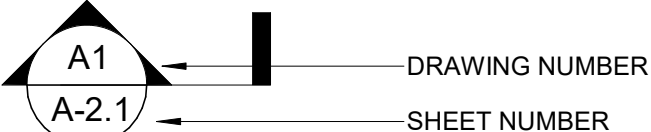
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
REBAR	STEEL REINFORC. BAR
REF	REFER(ENCE)
REINF	REINFORCE(D)(ING)(MENT)
REQD	REQUIRED
REV	REVISION(S) REVISED
RM	ROOM
SC	SOLID CORE
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SHT	SHEET
SIM	SIMILAR
SLSF	SOLID SURFACE
SPEC	SPECIFICATION(S)
SPKLR	SPRINKLER
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
ST	SIGN TYPE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRFR	STOREFRONT
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM(S)
TEL	TELEPHONE
THRES	THRESHOLD
TOM	TOP OF MASONRY
TOS	TOP PF STEEL
TYP	TYPICAL
TZ	TERRAZZO
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
UTIL	UNINTERRUPTED POWER SUPPLY
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WSCOT	WAINSCOT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

GENERAL SYMBOL LEGEND

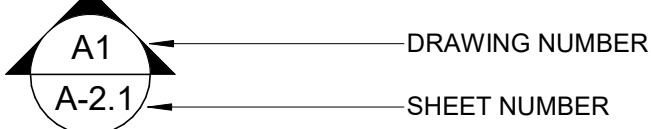
ENLARGED DRAWING REFERENCE



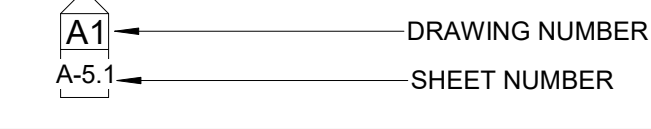
BUILDING / WALL SECTION CUT REFERENCE



EXTERIOR ELEVATION REFERENCE



INTERIOR ELEVATION REFERENCE

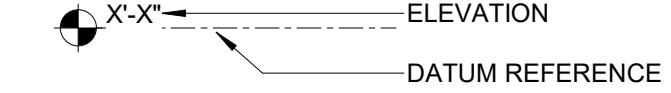


PARTITION TYPE

\*REFER TO INTERIOR PARTITION LEGEND

CONTROL JOINT

ELEVATION DATUM REFERENCE



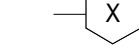
RELATIVE FINISH FLOOR ELEVATION



WALLS

NEW WALL OR PARTITION

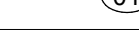
WINDOW TYPE



DOOR / DOOR NUMBER



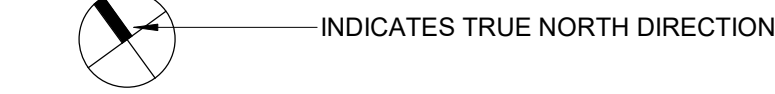
KEY NOTE



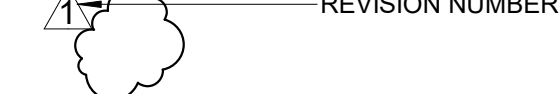
ALIGN FACES OF DESIGNATED SURFACES



NORTH ARROW



REVISION REFERENCE



ROOM TAG

ROOM NAME ROOM NUMBER

FURNITURE, FIXTURES, & EQUIPMENT KEY

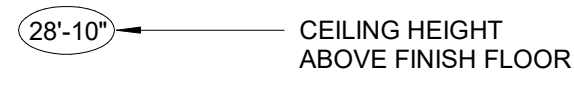


FLOOR DRAIN

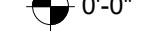


REFLECTED CEILING PLAN SYMBOL LEGEND

CEILING TAG



SPOT ELEVATION



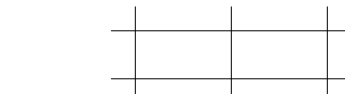
GYB BOARD CEILING



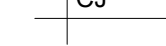
ACOUSTIC CEILING TILE: 2'x2'



ACOUSTIC CEILING TILE: 2'x4'



CONTROL JOINT



MECHANICAL RETURN REGISTER



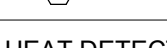
MECHANICAL AIR SUPPLY DIFFUSER



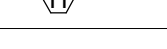
MECHANICAL EXHAUST REGISTER



SMOKE DETECTOR



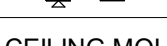
HEAT DETECTOR



EXIT LIGHT FIXTURE



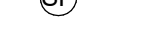
HORN STROBE



CEILING MOUNTED OCCUPANCY SENSOR



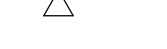
CEILING MOUNTED SPEAKER



CEILING MOUNTED CARBON MONOXIDE DETECTOR



CEILING MOUNTED COMMUNICATION SYSTEM



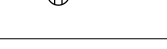
SPRINKLER HEAD



SECURITY CAMERA



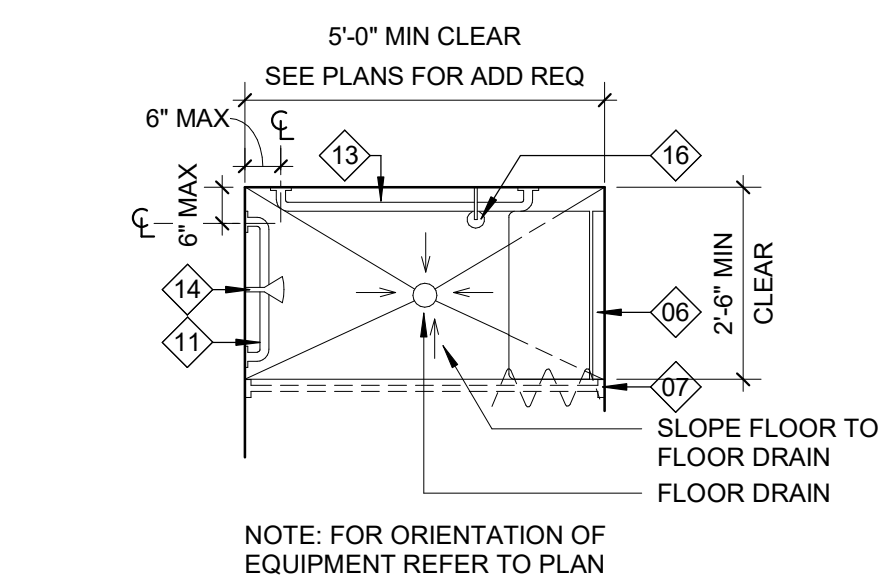
CEILING MOUNTED ELECTRICAL OUTLET



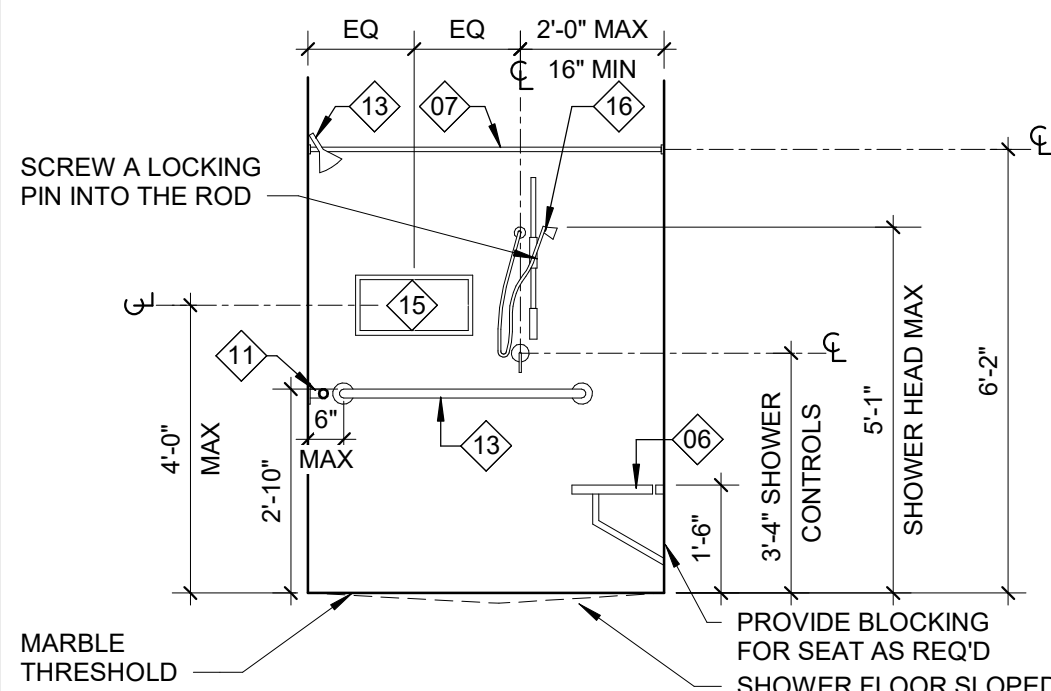
RECESSED LIGHT FIXTURE



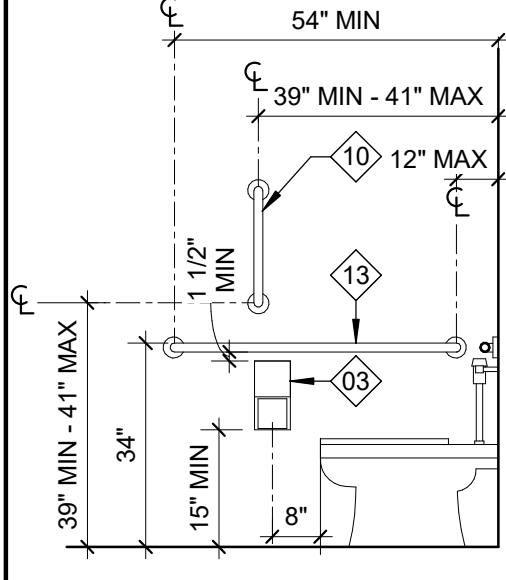
TYPICAL MOUNTING HEIGHTS AND DIMENSIONS



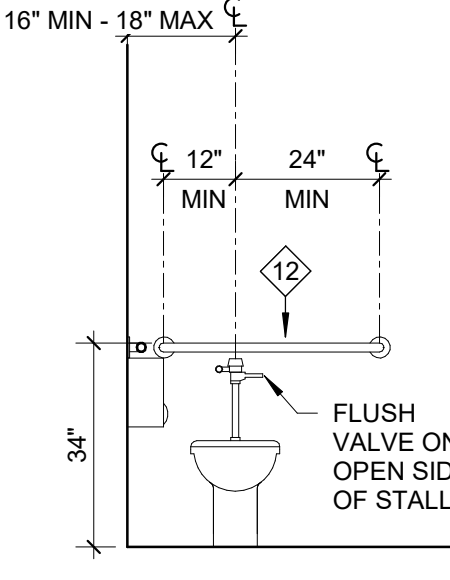
ADA ROLL-IN SHOWER (PLAN)



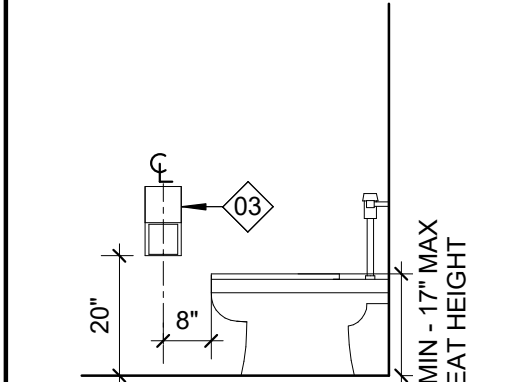
SHOWER - TYPE 2 (ADA) (FRONT VIEW)



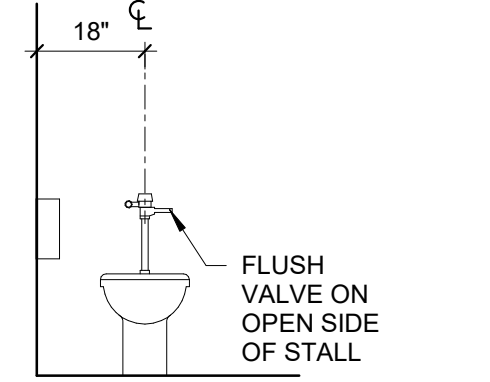
ADA TOILET (SIDE VIEW)



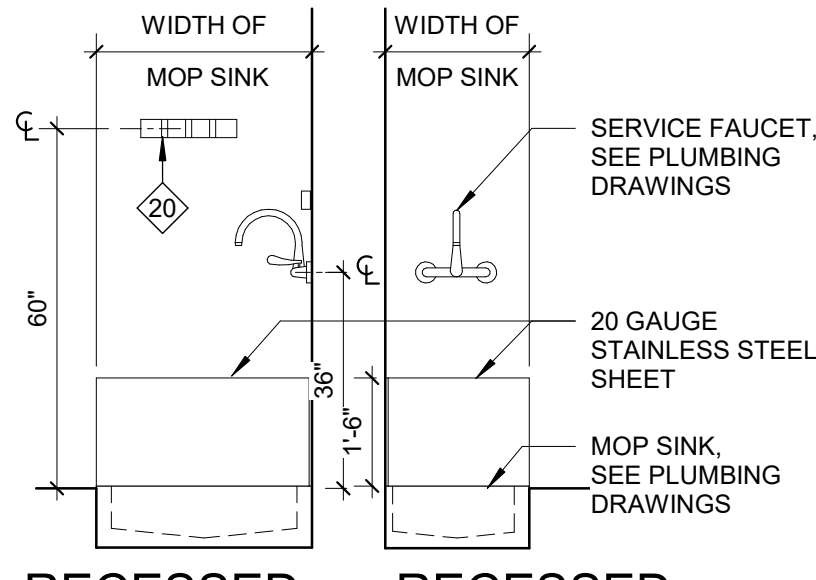
ADA TOILET (FRONT VIEW)



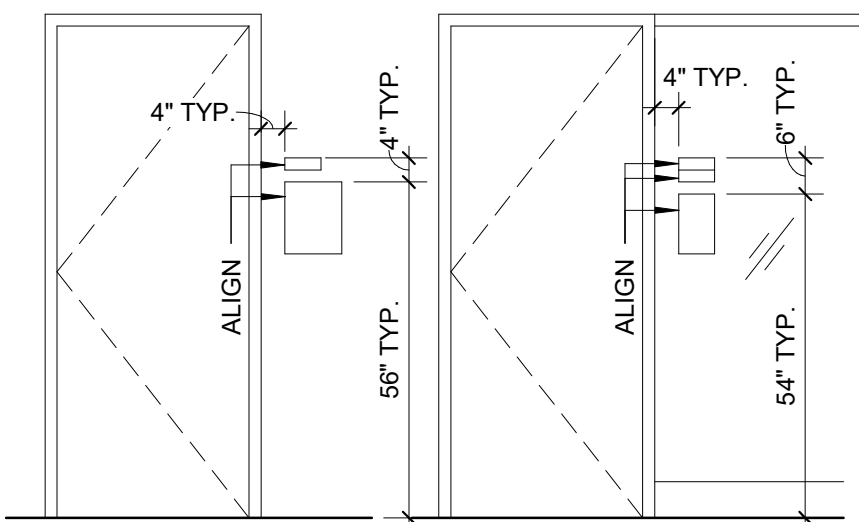
STANDARD TOILET (SIDE VIEW)



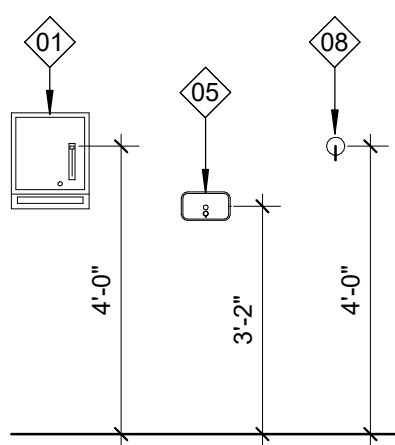
STANDARD TOILET (FRONT VIEW)



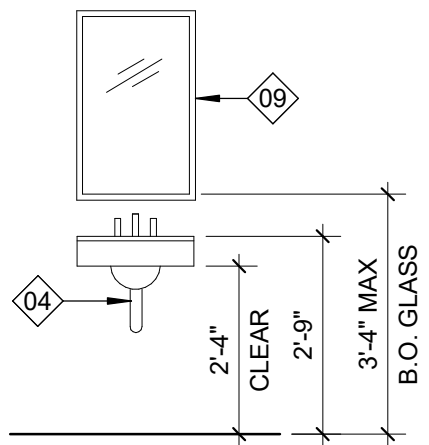
RECESSED MOP SINK (FRONT VIEW) (SIDE VIEW)



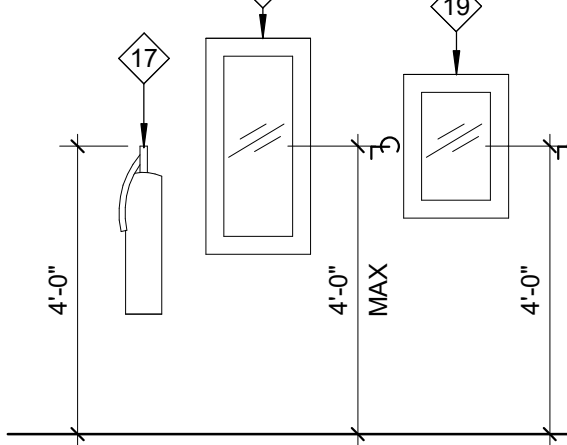
TYPICAL ROOM SIGN ON GLASS  
SIGNAGE MOUNTING HEIGHTS:



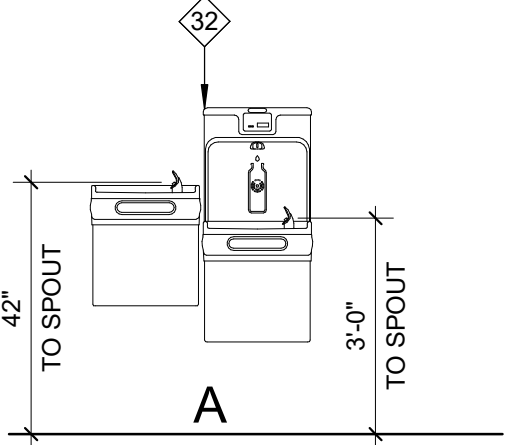
MISC.



ADA LAVATORY (NOT IN COUNTERTOP)



FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET / AED CABINET



ADA DUAL HEIGHT ELECTRIC WATER COOLERS

PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
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SEALS



DKA JOB NUMBER

2015

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SHEET TITLE  
GENERAL NOTES  
AND LEGENDS

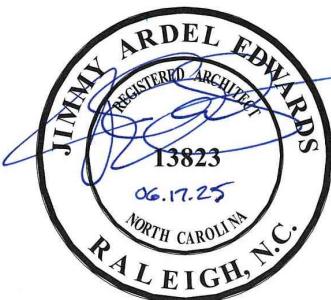
A001



PROJECT INFORMATION

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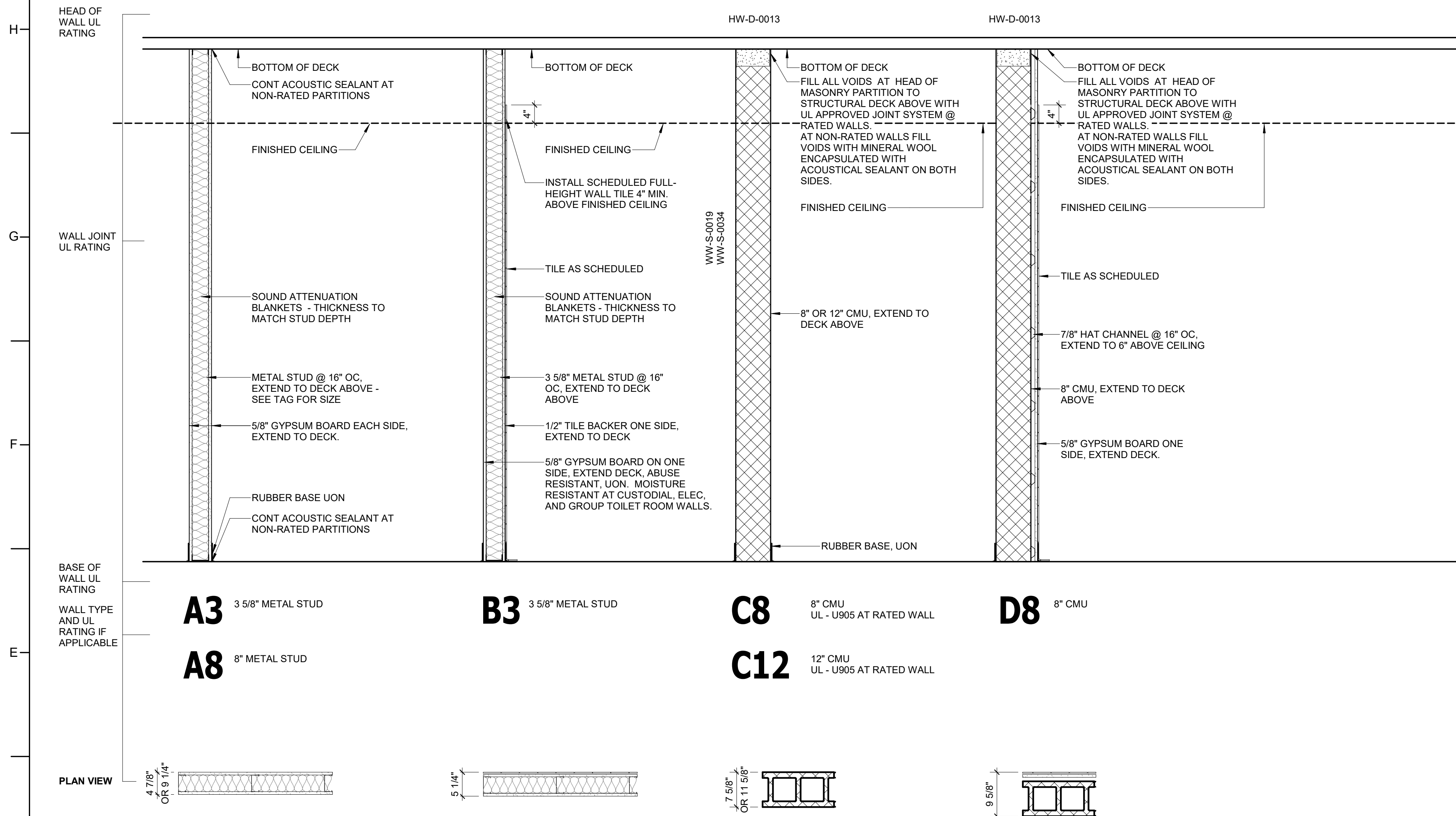
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SHEET TITLE  
PARTITION LEGEND

A002

INTERIOR PARTITION LEGEND



ARCHITECTURAL MATERIALS LEGEND

	EARTH		BATT INSULATION: THERMAL OR ACOUSTICAL, UON
	GRANULAR FILL		RIGID INSULATION: THERMAL, ACOUSTICAL, OR SAFING
	SAND, GROUT AS NOTED		GYPSUM WALL BOARD
	CAST-IN-PLACE CONCRETE		SHEATHING: GYPSUM, OR AS NOTED
	PRECAST CONCRETE, CAST STONE		ACOUSTICAL CEILING TILE
	CONCRETE MASONRY UNIT		RESINOUS FLOORING: TERRAZO, TROWEL-ON, UON
	BRICK MASONRY		TILE: CERAMIC, QUARRY, UON
	STONE: QUARTZ		INSULATED GLASS: (SMALL SCALE)
	METAL: TYPE AS NOTED		INSULATED GLASS: (DETAIL)
	METAL: ROLLED SHAPES		ROOF MEMBRANE
	WOOD FRAMING / BLOCKING: CONTINUOUS		WATER PROOFING, DAMP PROOFING
	WOOD SHIM		TRANSITION MEMBRANE FLASHING
	FINISHED WOOD SHOWN CUT AND ELEVATION		AIR BARRIER
	PARTICLEBOARD		
	PLYWOOD		
	SPRAYED FIREPROOFING SHOWN ON ROLLED SHAPE		

NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN OR SECTION, UNLESS NOTED OTHERWISE ABOVE.

INTERIOR PARTITION NOTES:

- ALL RATED ASSEMBLIES SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED TO READ AS FOLLOWS: "\_\_\_\_-HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" MIN HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.
- SEE SHEET **G005** FOR UL CERTIFIED RATED ASSEMBLIES AS REQUIRED BY INTERIOR PARTITION LEGEND. AT ALL RATED ASSEMBLIES, PROTECT ALL JOINTS AS REQUIRED BY INTERIOR PARTITION LEGEND. SEE PLUMBING, MECHANICAL AND ELECTRICAL SHEETS FOR PROTECTION OF PENETRATIONS IN RATED ASSEMBLIES. SEAL PERIMETER OF ALL RATED ASSEMBLIES AT DECK, STRUCTURE, CEILING, FLOOR AND ADJACENT WALLS, TYP.
- COORDINATE LAYOUT OF WALLS OF DIFFERENT TYPES SUCH THAT FINISH GWB SURFACES ALIGN IN SAME PLANE.
- AT ALL NON-RATED WALLS AND PARTITIONS, SEAL ALL PENETRATIONS USING APPROVED NON-COMBUSTIBLE MATERIAL.
- AT PARTITION WALLS WITH SOUND BATT INSULATION, PROVIDE CONTINUOUS ACOUSTIC SEALANT AROUND FULL PERIMETER OF PARTITION AT ADJACENT SURFACES AND AT PENETRATIONS.
- TOP OF WALL BRACING NOT SHOWN ON THIS SHEET. SEE STRUCTURAL DRAWINGS FOR TYPICAL WALL BRACING DETAILS AND ADDITIONAL REINFORCEMENT REQUIREMENTS.
- PROVIDE LATERAL BRACING FOR PARTITIONS WHICH EXTEND ABOVE CEILING.
- ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS SPECIFIED.
- PROVIDE PARTITION CONTROL JOINTS PER DETAILS ON SHEET A312 AS INDICATED ON INTERIOR ELEVATIONS AND ON RCPS. DRYWALL CONTRACTOR TO VERIFY ALL RECOMMENDED LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO INTERIOR FINISHES PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL WALL FINISH, BASE, AND CEILING INFORMATION.
- PROVIDE WATER RESISTANT GWB WITHIN 4 FEET OF DRINKING FOUNTAINS / WATER COOLERS, UON.
- PROVIDE SPECIFIED TILE BACKER BOARD IN LIEU OF GWB AT ALL WALLS SCHEDULED TO HAVE CERAMIC TILE OR FRP PANELS.
- CORRIDOR WALLS TO RECEIVE ABUSE RESISTANT GYPSUM BOARD TYPICAL, UON.
- OUTSIDE CORNER OF CMU WALLS TO BE BULLNOSED FROM 8" AFF TO 8'-8" AFF TYPICAL, UON.
- PROVIDE 2X SOLID WOOD BLOCKING CONCEALED IN METAL STUD WALL CONSTRUCTION FOR WALL-MOUNTED FIXTURES, FURNISHINGS, EQUIPMENT AND ACCESSORIES. SEE DETAIL A1/A312.



PROJECT INFORMATION

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HEADQUARTERS**  
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SEALS



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2015

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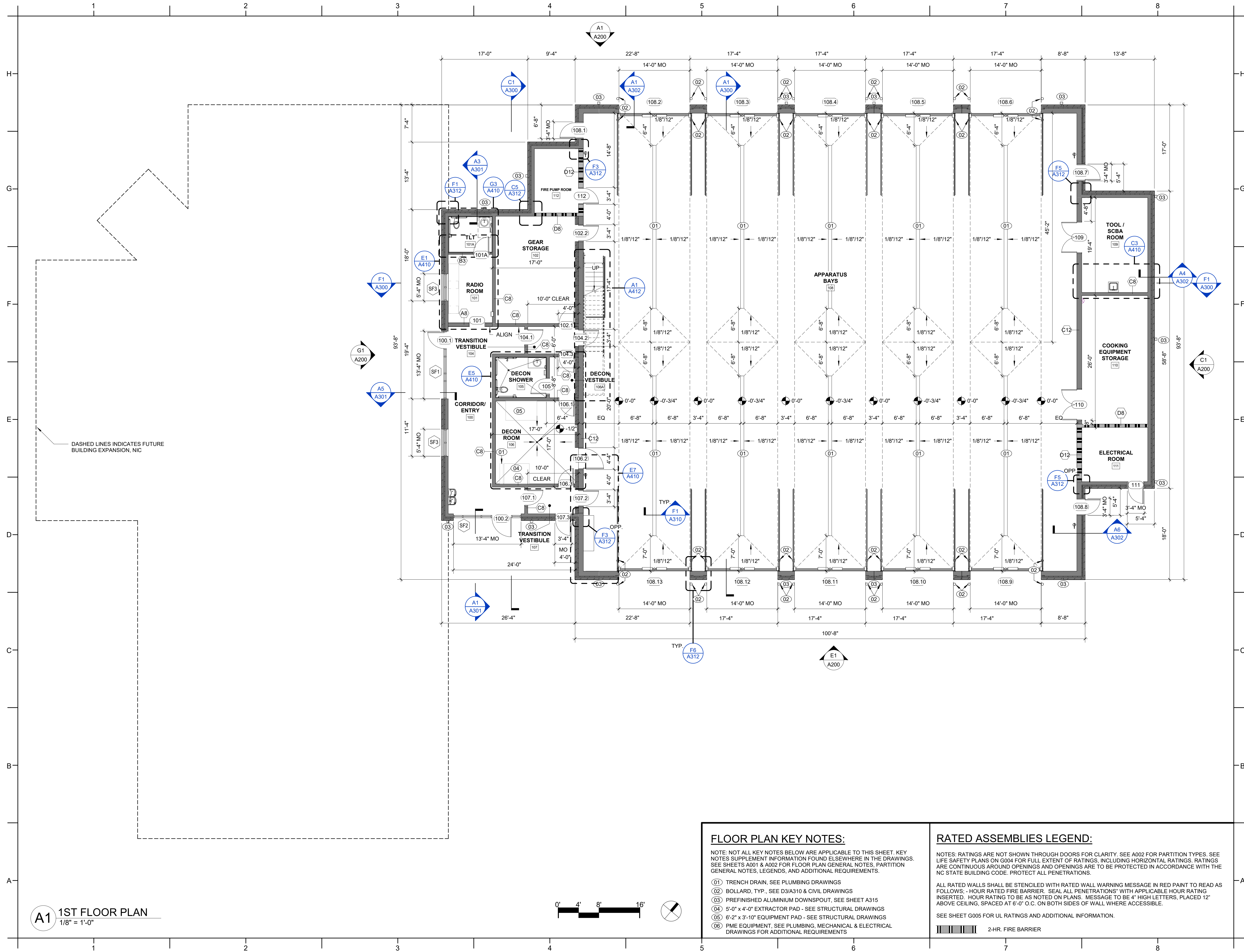
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SHEET TITLE  
FIRST FLOOR PLAN

**A100**



FLOOR PLAN KEY NOTES:

NOTE: NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE SHEETS A001 & A002 FOR FLOOR PLAN GENERAL NOTES, PARTITION GENERAL NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

- (01) TRENCH DRAIN. SEE PLUMBING DRAWINGS
- (02) BOLLARD, TYP., SEE D3/A310 & CIVIL DRAWINGS
- (03) PREFINISHED ALUMINIUM DOWNSPOUT, SEE SHEET A315
- (04) 5'-0" x 4'-0" EXTRACTOR PAD - SEE STRUCTURAL DRAWINGS
- (05) 6'-2" x 3'-10" EQUIPMENT PAD - SEE STRUCTURAL DRAWINGS
- (06) PME EQUIPMENT. SEE PLUMBING, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS\* WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.

SEE SHEET G005 FOR UL RATINGS AND ADDITIONAL INFORMATION.

2-HR. FIRE BARRIER

**A1** 1ST FLOOR PLAN  
1/8" = 1'-0"



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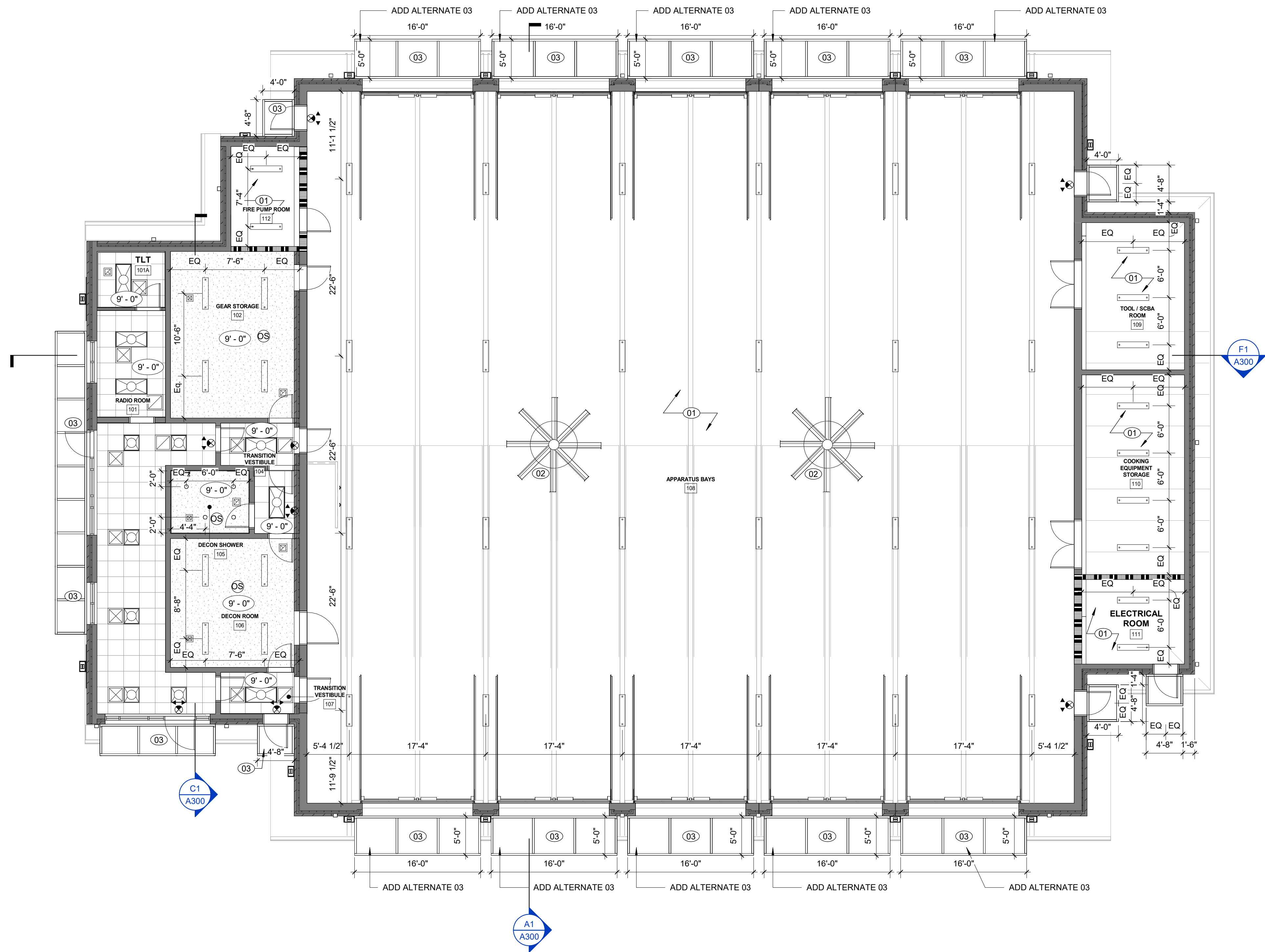
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SHEET TITLE  
1ST FLOOR RCP

A110



B1 REFLECTED CEILING PLAN  
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
- CENTER CEILING GRIDS WITHIN ROOMS AS SHOWN UON.
- CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC. UON
- ALL GWB CONTROL JOINTS ARE TO RUN HORIZONTALLY AS SHOWN ON REFLECTED CEILING PLANS AND VERTICALLY UP THE FACE OF THE BULKHEAD. PROVIDE CONTROL JOINTS (CJ) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0" VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
- TO AVOID A DOUBLE CEILING TRACK AT THE EDGE OF ANY LAY-IN CEILING AREA, PROVIDE A 2'-0" X 4'-0" TILE CUT TO FIT THE LARGER OPENING WHERE A STRIP OF THE TILE LESS THAN 2 1/2" IN EITHER DIRECTION WOULD HAVE TO BE USED, TYP.
- MECHANICAL, ELECTRICAL, FIRE PROTECTION, ETC. COMPONENTS SHOWN FOR COORDINATION PURPOSES ONLY. SEE OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- SEE SHEET A313 FOR TYPICAL SUSPENDED GWB CEILING DETAIL.
- AUTOMATIC SPRINKLER DESIGN BY PERFORMANCE SPECIFICATION.
- SUBMIT COORDINATION DRAWINGS AND LAYOUT FOR APPROVAL IN ALL AREAS WITH EXPOSED STRUCTURE PRIOR TO INSTALLATION.

REFLECTED CEILING PLAN KEY NOTES:

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE PLANS FOR KEYED ITEM LOCATIONS. SEE SHEET A110 FOR REFLECTED CEILING PLAN GENERAL NOTES. SEE SHEET A001 FOR REFLECTED CEILING PLAN LEGEND. SEE SHEET I200 FOR FF&E LEGEND.

- 01 WHERE NO CEILING IS SCHEDULED, PAINT ALL EXPOSED AND SEMI- EXPOSED SURFACES, INCLUDING STEEL STRUCTURE, STEEL DECK, PIPING, DUCT, CONDUIT, BOXES, ETC. MASK AND PROTECT FROM PAINT THOSE ITEMS THAT WILL NOT PROPERLY OPERATE WITH FIELD- APPLIED COATINGS, INCLUDING SPRINKLER HEADS, CONTROLS, LEVERS, VALVES, SENSORS, ETC. SEE F, P, M, AND E DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 02 10' DIAMETER, HIGH VOLUME, LOW SPEED INDUSTRIAL FAN. BASIS OF DESIGN MACROAIR AIRVOLUTION OR APPROVED EQUAL. COORDINATE HEIGHT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 03 PREFABRICATED ALUMINUM CANOPY, REFER TO SHEET A313.

RATED ASSEMBLIES LEGEND:

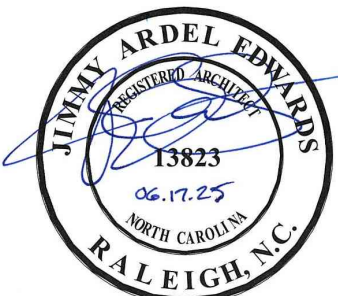
NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.

SEE SHEET G005 FOR UL RATINGS AND ADDITIONAL INFORMATION.

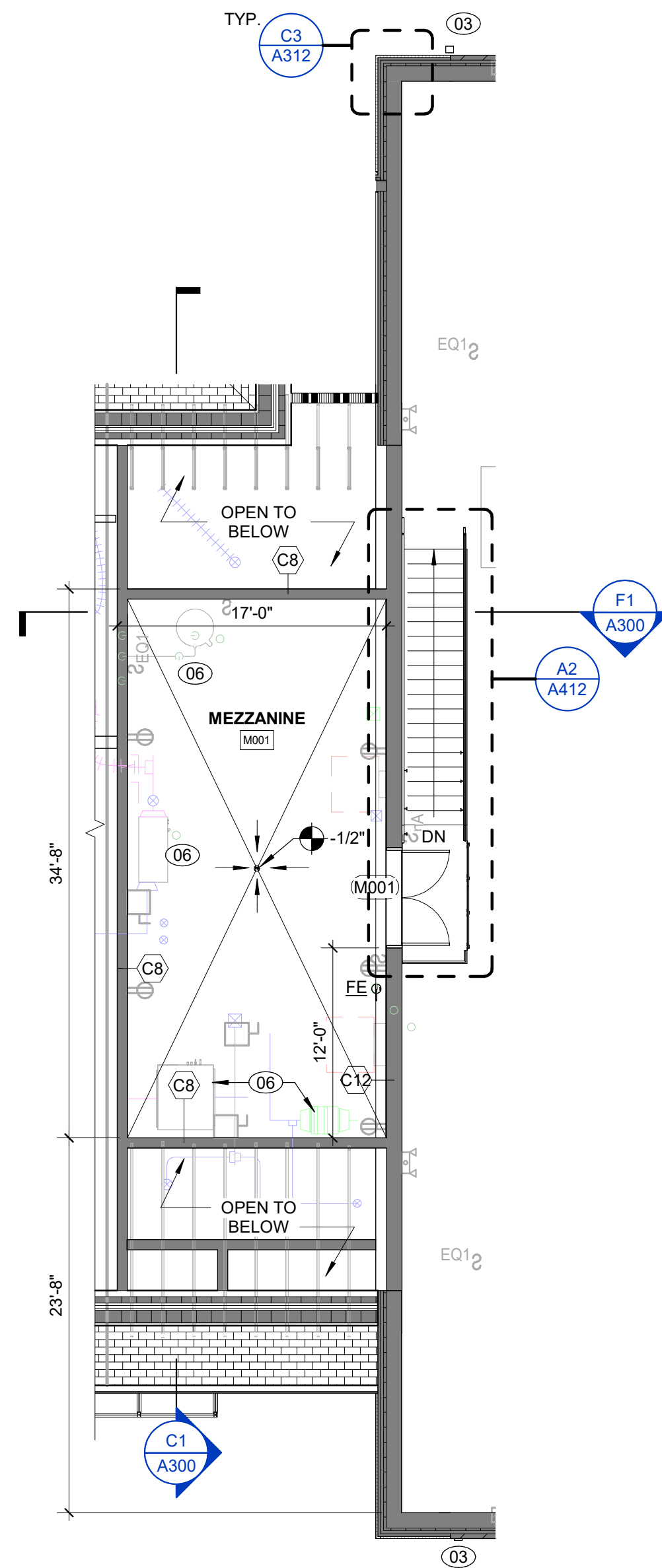
2-HR. FIRE BARRIER



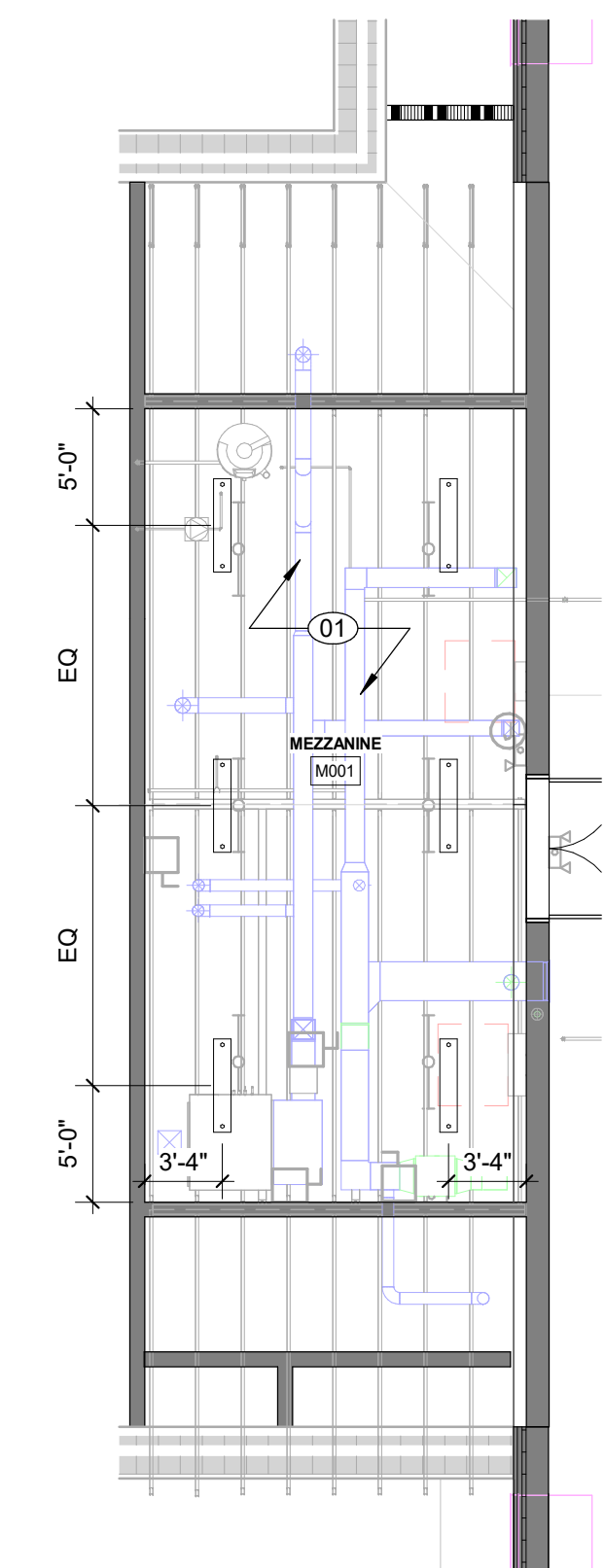



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**B4** MEZZANINE FLOOR PLAN  
1/8" = 1'-0"



**B6** MEZZANINE REFLECTED  
CEILING PLAN  
1/8" = 1'-0"

**FLOOR PLAN KEY NOTES:**

NOTE: NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE SHEETS A-0.0 & A-0.1 FOR FLOOR PLAN GENERAL NOTES, PARTITION GENERAL NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

- 01 TRENCH DRAIN, SEE PLUMBING DRAWINGS
- 02 BOLLARD, TYP., SEE D3/A310 & CIVIL DRAWINGS
- 03 PREFINISHED ALUMINIUM DOWNSPOUT, SEE SHEET A315
- 04 5'-0" x 4'-0" EXTRACTOR PAD - SEE STRUCTURAL DRAWINGS
- 05 6'-2" x 3'-10" EQUIPMENT PAD - SEE STRUCTURAL DRAWINGS
- 06 PME EQUIPMENT, SEE PLUMBING, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

**REFLECTED CEILING PLAN KEY NOTES:**

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE PLANS FOR KEYED ITEM LOCATIONS. SEE SHEET A110 FOR REFLECTED CEILING PLAN GENERAL NOTES. SEE SHEET A001 FOR REFLECTED CEILING PLAN LEGEND. SEE SHEET I200 FOR FF&E LEGEND.

- 01 WHERE NO CEILING IS SCHEDULED, PAINT ALL EXPOSED AND SEMI- EXPOSED SURFACES, INCLUDING STEEL STRUCTURE, STEEL DECK, PIPING, DUCT, CONDUIT, BOXES, ETC. MASK AND PROTECT FROM PAINT THOSE ITEMS THAT WILL NOT PROPERLY OPERATE WITH FIELD- APPLIED COATINGS, INCLUDING SPRINKLER HEADS, CONTROLS, LEVERS, VALVES, SENSORS, ETC. SEE F, P, M, AND E DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 02 10' DIAMETER, HIGH VOLUME, LOW SPEED INDUSTRIAL FAN. BASIS OF DESIGN MACROAIR AIRVOLUTION OR APPROVED EQUAL. COORDINATE HEIGHT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 03 PREFABRICATED ALUMINUM CANOPY, REFER TO SHEET A313.

**RATED ASSEMBLIES LEGEND:**

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A002 FOR PARTITION TYPES. SEE LIFE SAFETY PLANS ON G004 FOR FULL EXTENT OF RATINGS, INCLUDING HORIZONTAL RATINGS. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS' WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.

SEE SHEET G005 FOR UL RATINGS AND ADDITIONAL INFORMATION.

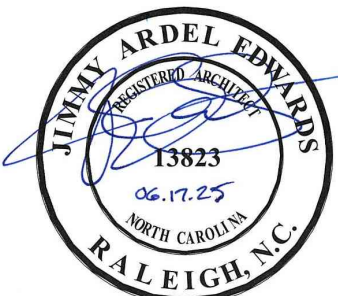
2-HR. FIRE BARRIER



PROJECT INFORMATION

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SEALS



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2015

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NO.	DESCRIPTION

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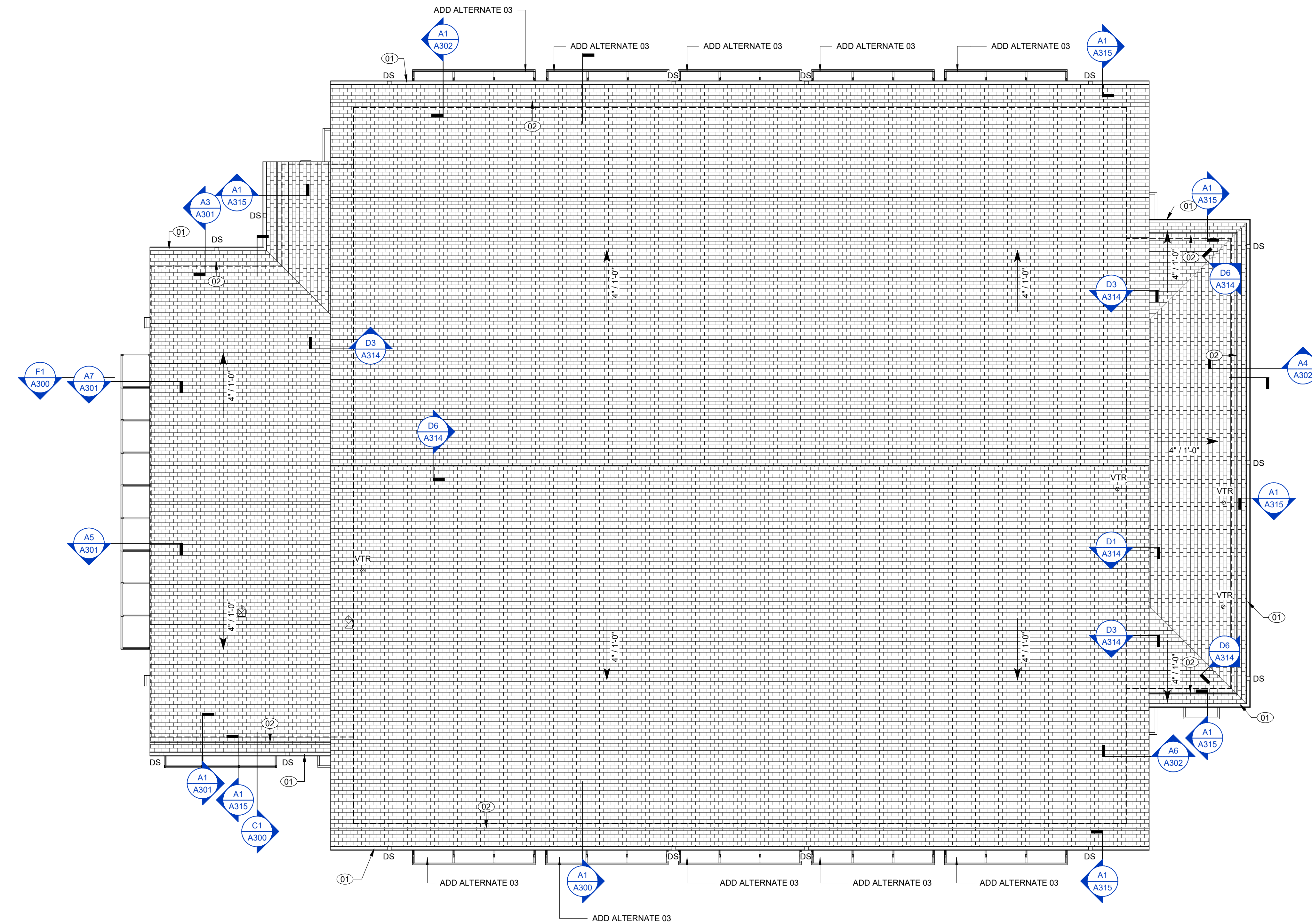
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6/17/2025

SHEET TITLE  
ROOF PLAN

**A120**



**B1** ROOF PLAN  
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES:

- ROOF SYSTEM INCLUDES ALL COMPONENTS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE, WATERTIGHT AND WARRANTED SYSTEM. ITEMS INCLUDE BUT ARE NOT LIMITED TO INSULATION, ADHESIVE, PRIMER, FASTENERS, ANCHORS, METAL FLASHING, COPING, BLOCKING PLYWOOD, DRAINS, SUMPS, CURBS, PATCHING MATERIALS, ETC.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REVIEW OTHER DRAWINGS FOR ROOF PENETRATIONS NOT SHOWN.
- PROVIDE CRICKETS AT ALL ROOF PENETRATIONS.
- PAINT ALL ROOF PENETRATION PIPES TO MATCH ROOF COLOR.
- G.C. TO COORDINATE EXACT LOCATION OF ALL DOWNSPOUTS ON ELEVATIONS WITH ALL UNDERGROUND STORMWATER CONNECTIONS.
- PROVIDE ICE & SNOW RAILS AS SHOWN ON ROOF PLAN.
- SEE PLUMBING AND MECHANICAL DRAWINGS FOR ROOF PENETRATION LOCATIONS.

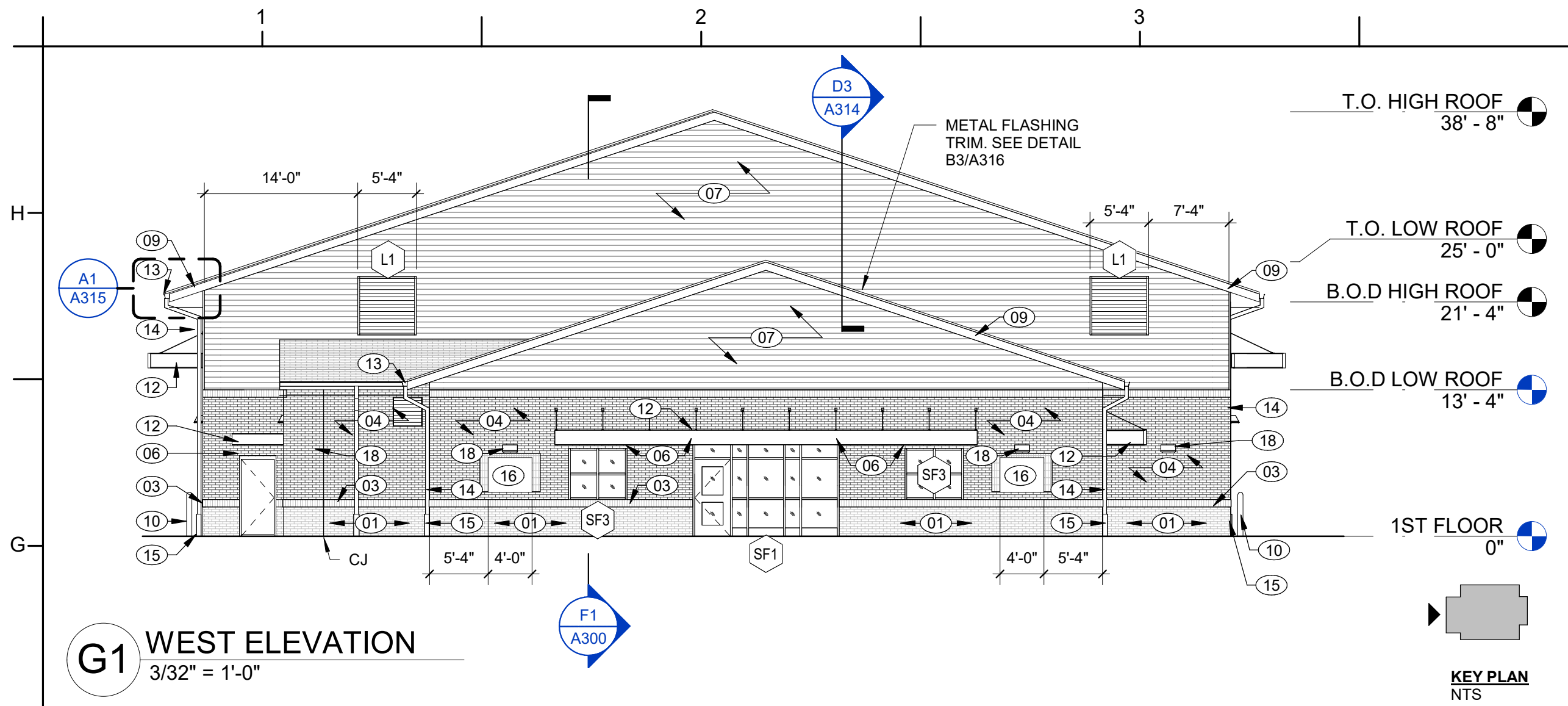
ROOF SYMBOL LEGEND

- 4" / 1'-0" ROOF SLOPE AND DIRECTION
- DS DOWNSPOUT
- VTR VENT THROUGH ROOF. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ROOF PENETRATION LOCATIONS
- FACE OF WALL BELOW

ROOF PLAN KEY NOTES:

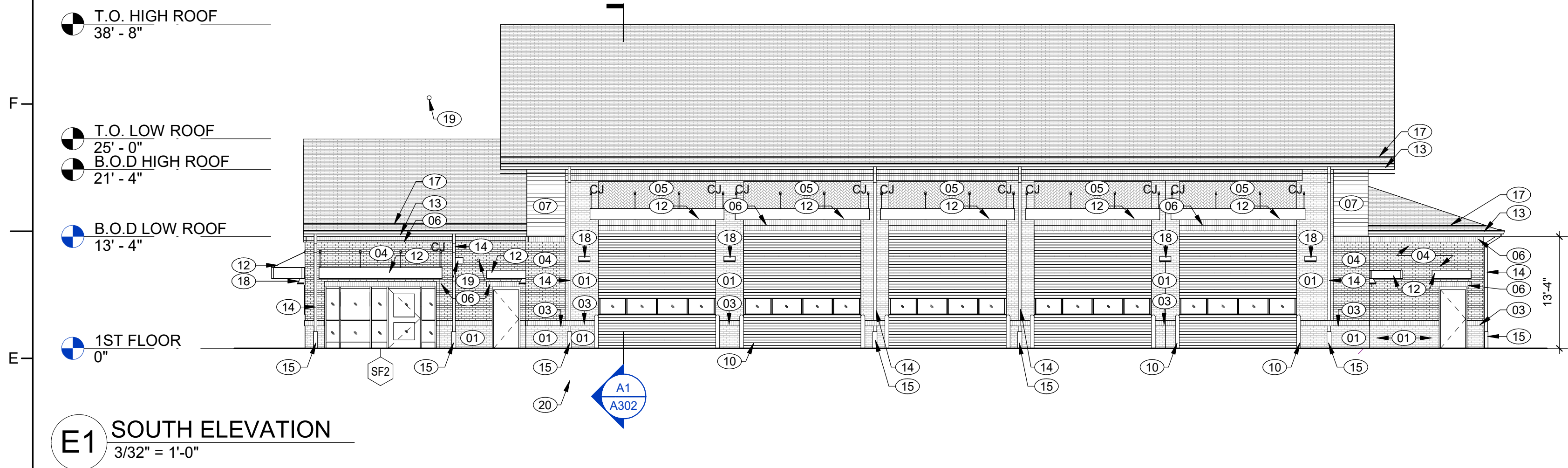
- NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. SEE PLANS FOR KEYED ITEM LOCATIONS.
- 01 PRE-FINISHED METAL GUTTER
- 02 SNOW GUARD, TO BE INSTALLED IF ALTERNATE 01 IS ACCEPTED





### EXTERIOR ELEVATION NOTES:

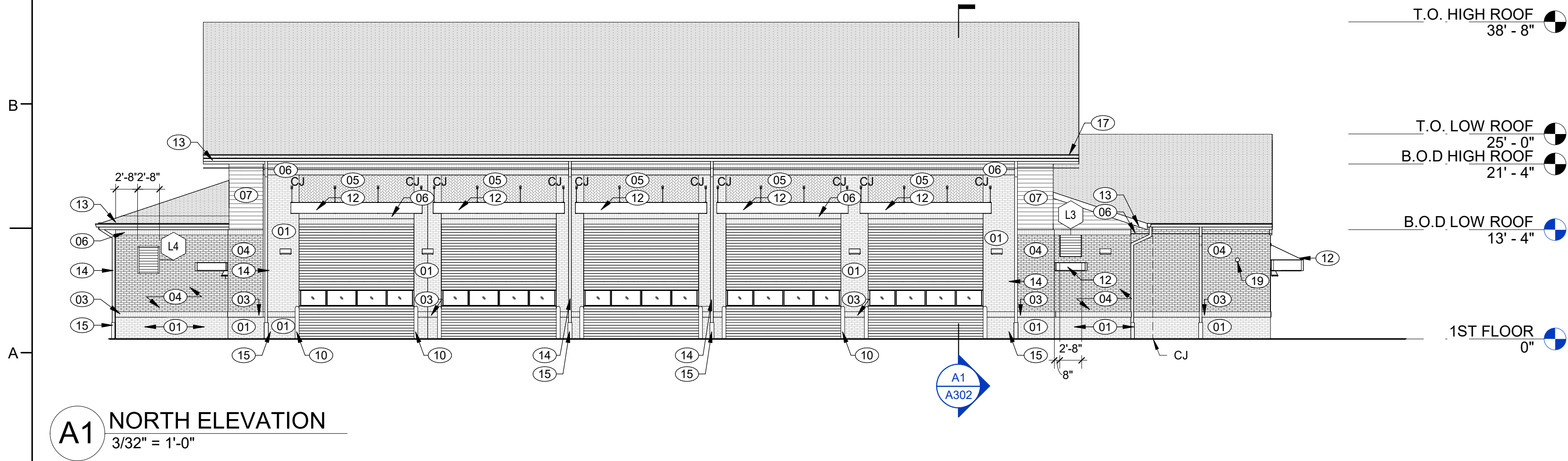
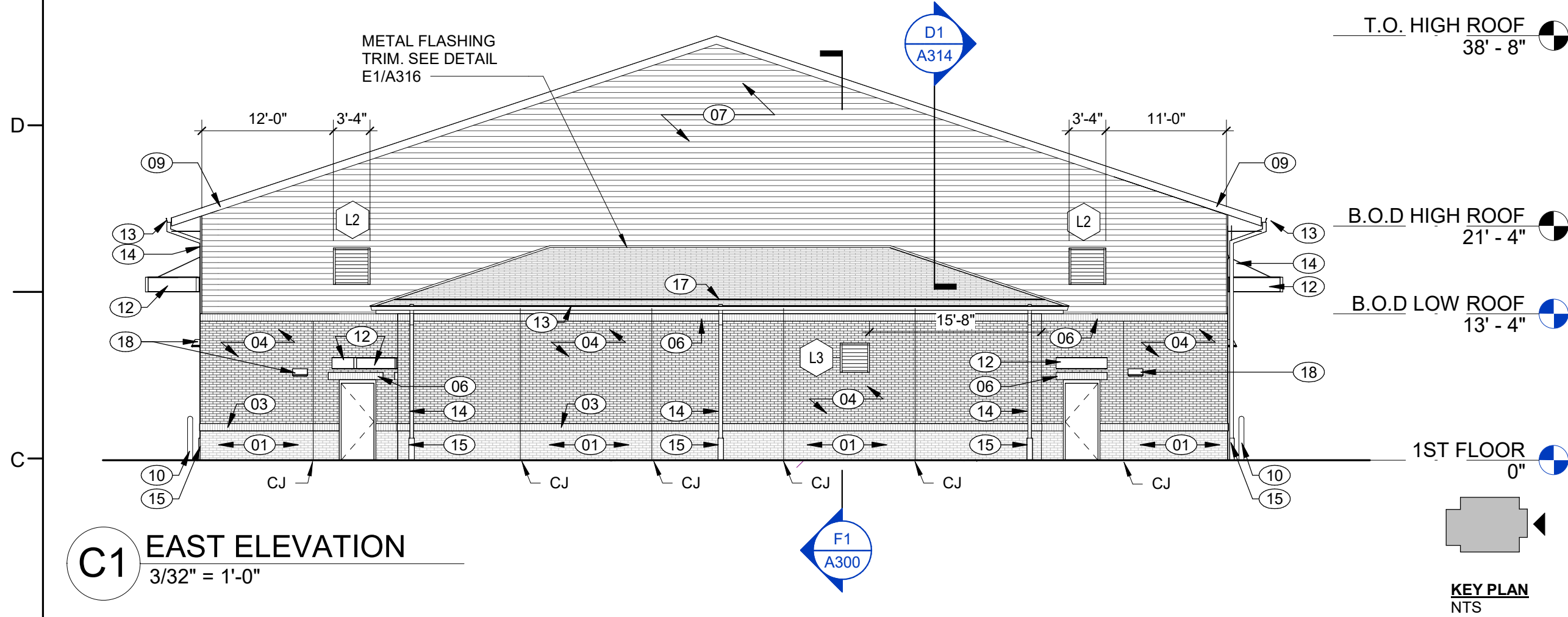
- METAL PANEL JOINT LOCATIONS SHALL MATCH BRICK VENEER CONTROL JOINT LOCATIONS AS SHOWN ON THE ELEVATIONS.
- PROVIDE CONTROL JOINTS (CJ) IN MASONRY CONSTRUCTION AS INDICATED.
- PROVIDE CONTROL JOINTS (CJ) AT ALL INTERIOR CORNERS.
- ALL DOWNSPOUT LOCATIONS SHALL BE COORDINATED WITH STORMWATER SYSTEM CONNECTIONS. SEE CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO COORDINATE LIGHT LOCATIONS WITH OPENINGS AND VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- AIR BARRIER AND ASSOCIATED FLASHING SHALL BE CONTINUOUS AND UNBROKEN AT ALL SURFACES OF WALL. MEMBRANE TO BE FLASHED TO ALL OTHER COMPONENTS AND ASSEMBLIES TO PROVIDE AIR-TIGHT CONDITION.
- VERIFY ALL MASONRY CONTROL JOINTS WITH ARCHITECT BEFORE CONSTRUCTION.



### EXTERIOR ELEVATION KEY NOTES:

NOTE: SEE ELEVATIONS FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

- 01 BRICK VENEER, COLOR 1
- 02 NOT USED
- 03 BRICK SOLDIER COURSE, COLOR 1
- 04 BRICK VENEER, COLOR 2
- 05 BRICK VENEER, COLOR 3 - HERRINGBONE PATTERN
- 06 BRICK SOLDIER HEAD SILL, COLOR 1
- 07 METAL PANEL, COLOR 1
- 08 NOT USED
- 09 METAL COPING
- 10 BOLLARD, TYP.
- 11 NOT USED
- 12 PREFINISHED EXTRUDED ALUMINUM CANOPY
- 13 ALUMINIUM GUTTER, TYP.
- 14 DOWNSPOUT, TYP
- 15 DOWNSPOUT BOOT, TYP.
- 16 PRECAST CONCRETE STATION EMBLEMS - 4'0" x 3'2" EMBLEM DESIGN TO BE PROVIDED BY OWNER
- 17 SNOW RAILS
- 18 EXTERIOR LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS FOR DETAILS
- 19 EXHAUST VENTS, PRIME AND PAINT



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**SHEET TITLE**  
BUILDING  
ELEVATIONS

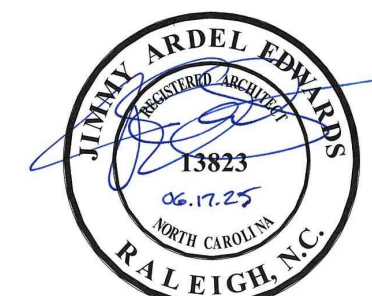
**A200**



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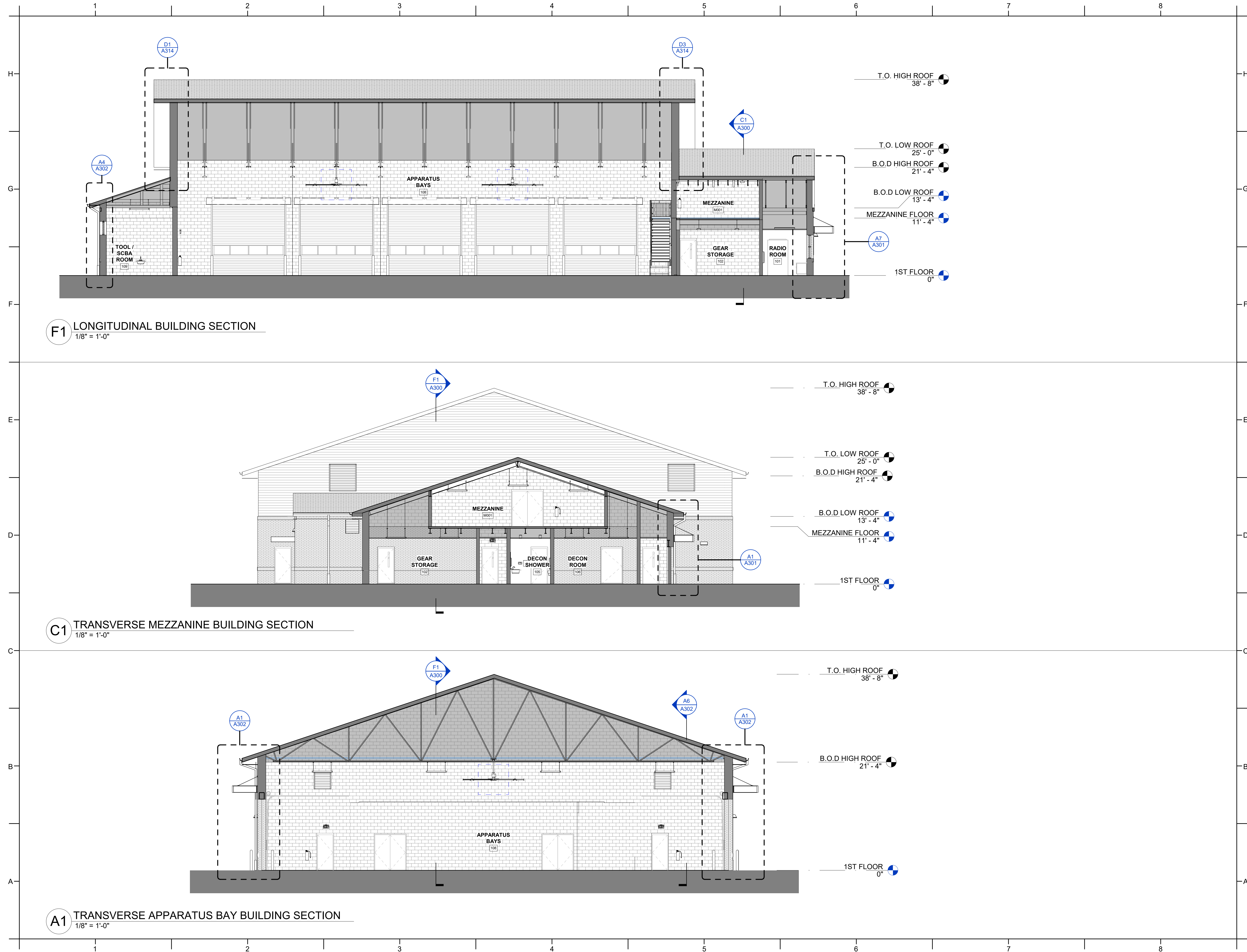
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SHEET TITLE  
BUILDING SECTIONS

A300

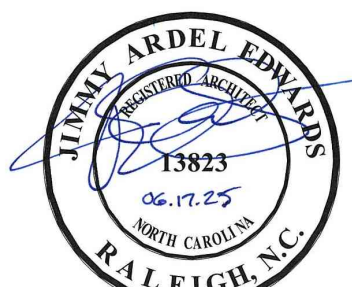




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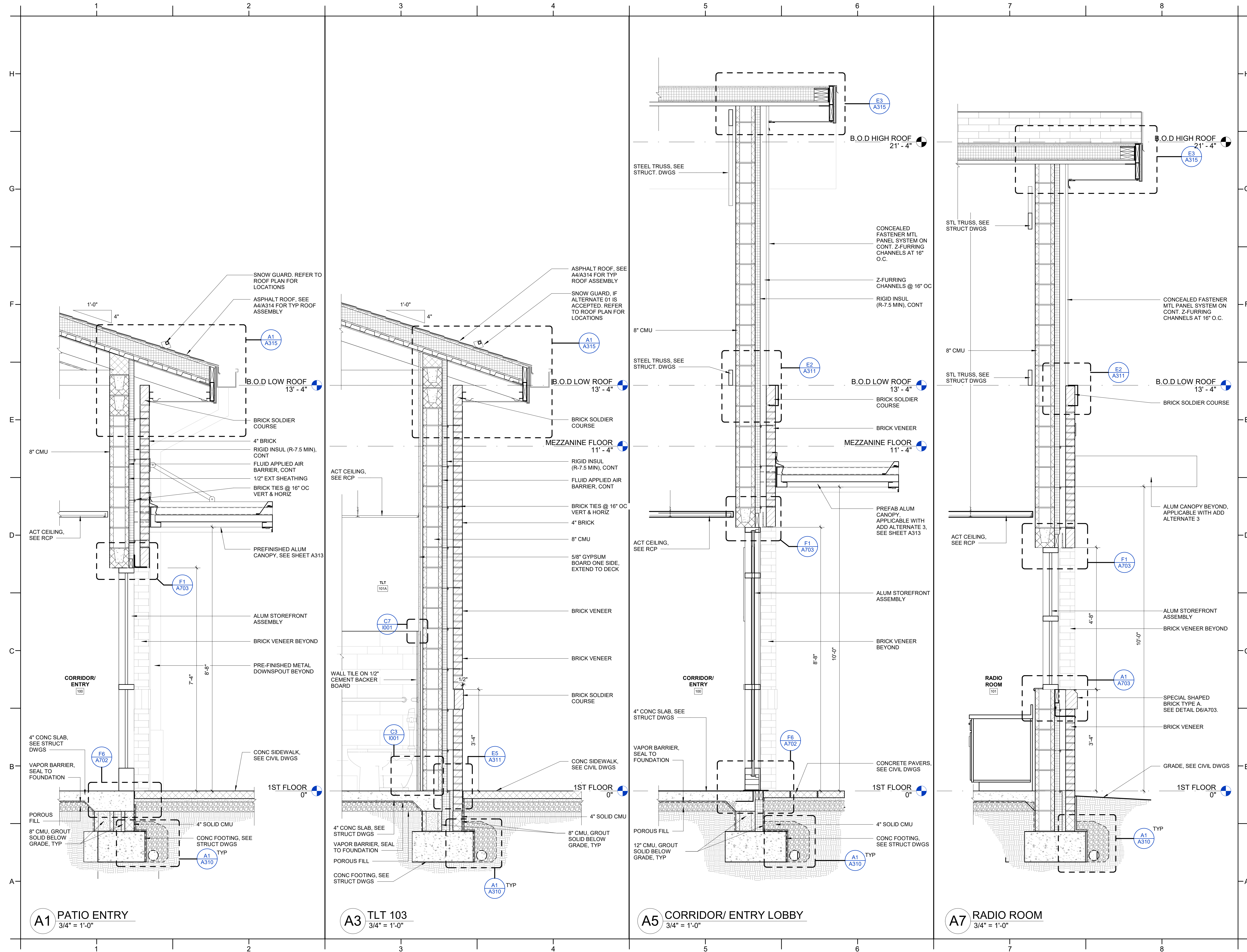
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SHEET TITLE  
WALL SECTIONS

A301

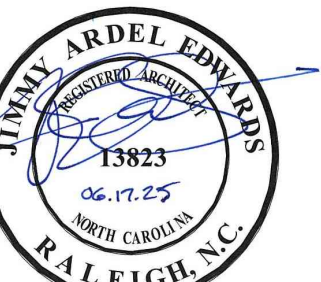




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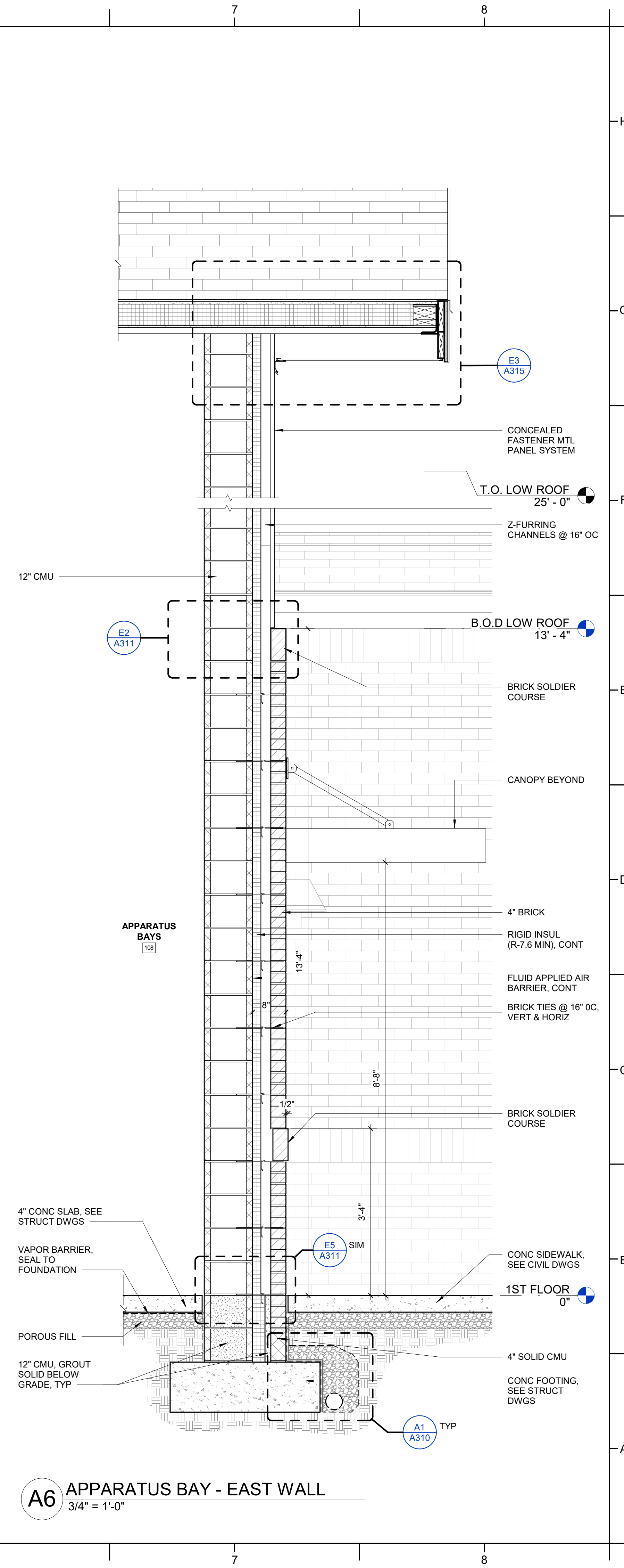
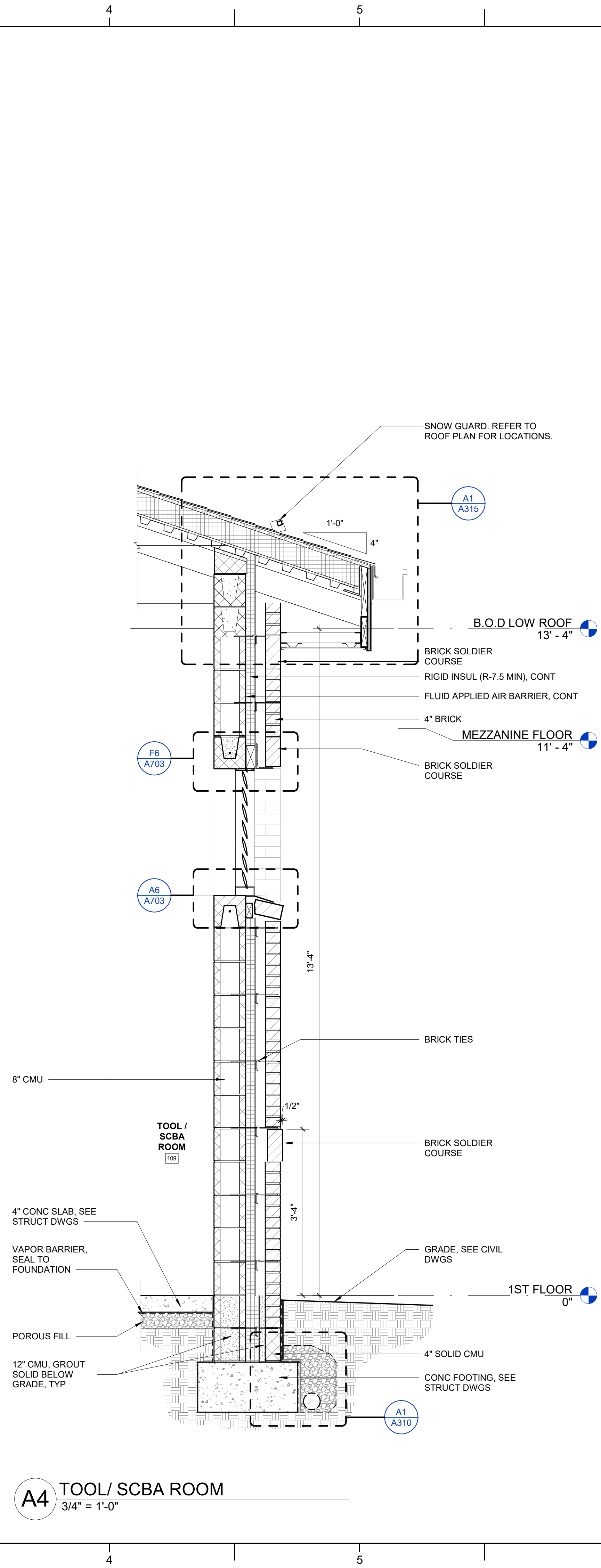
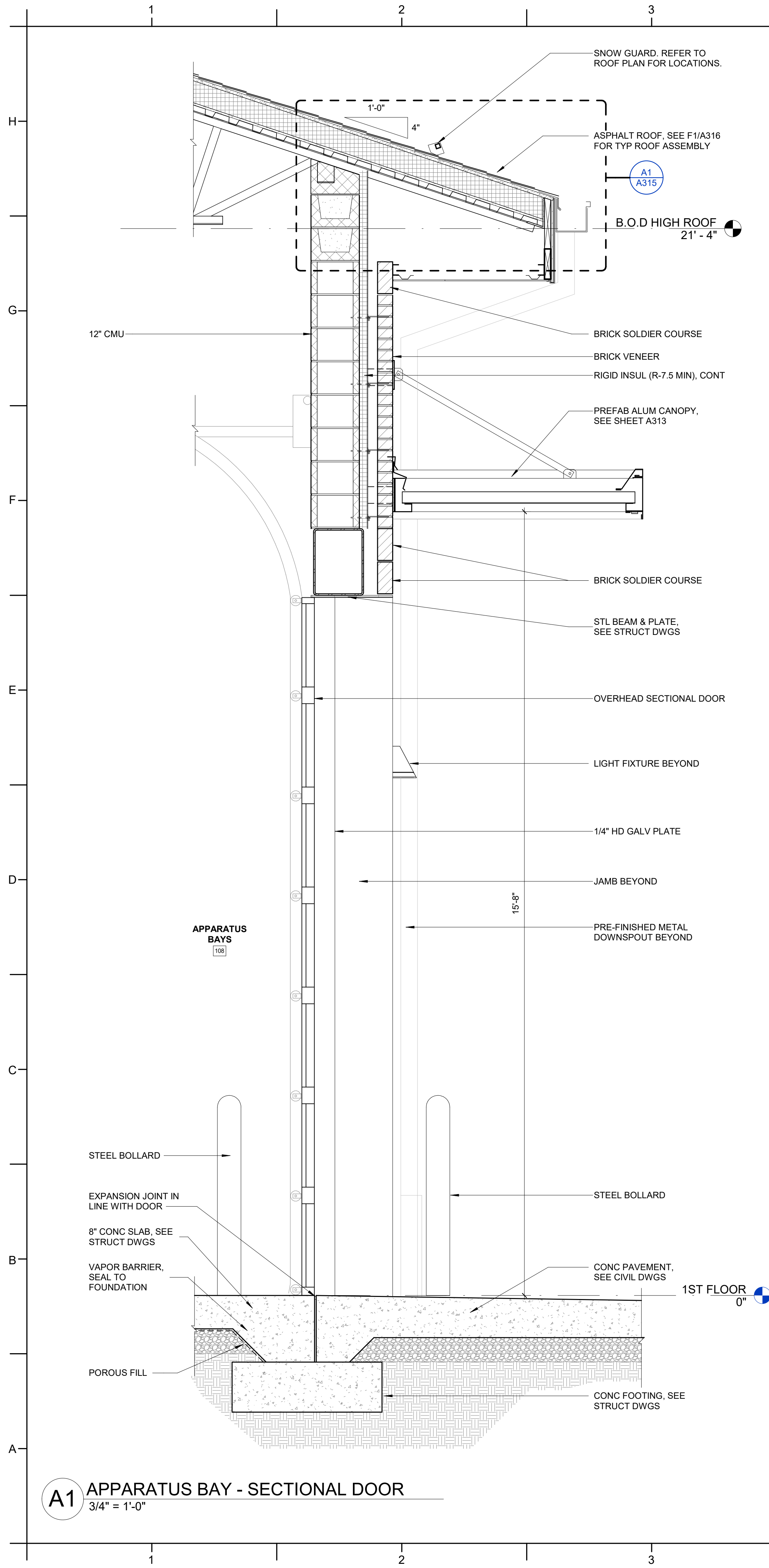
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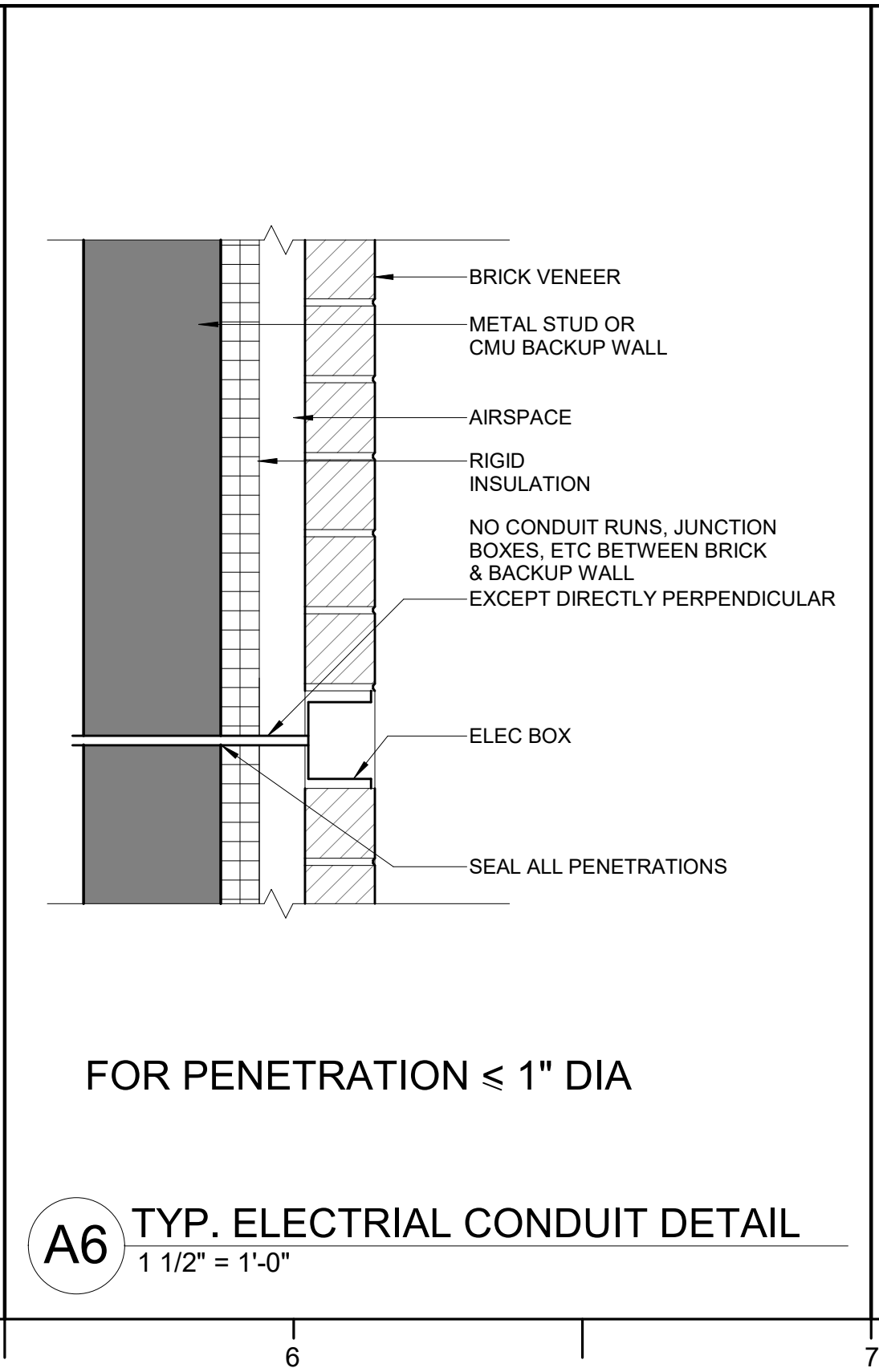
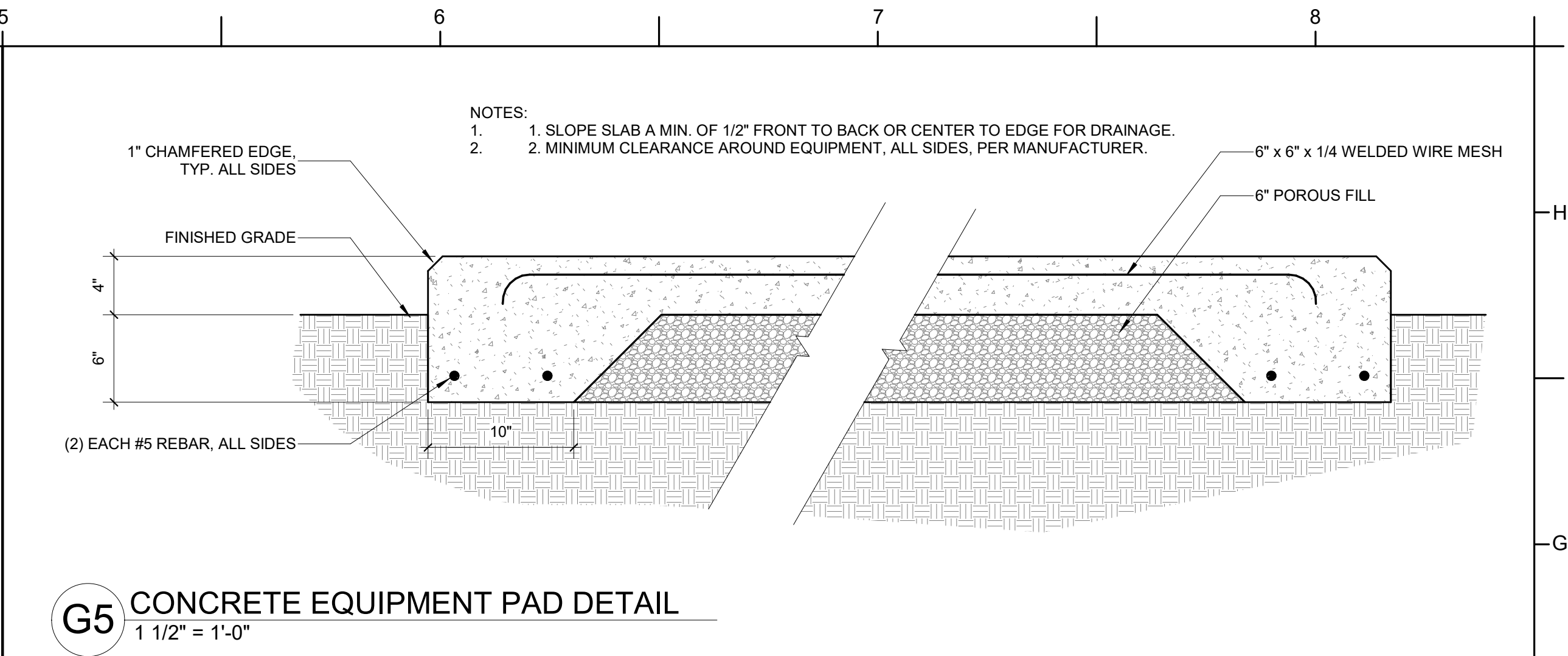
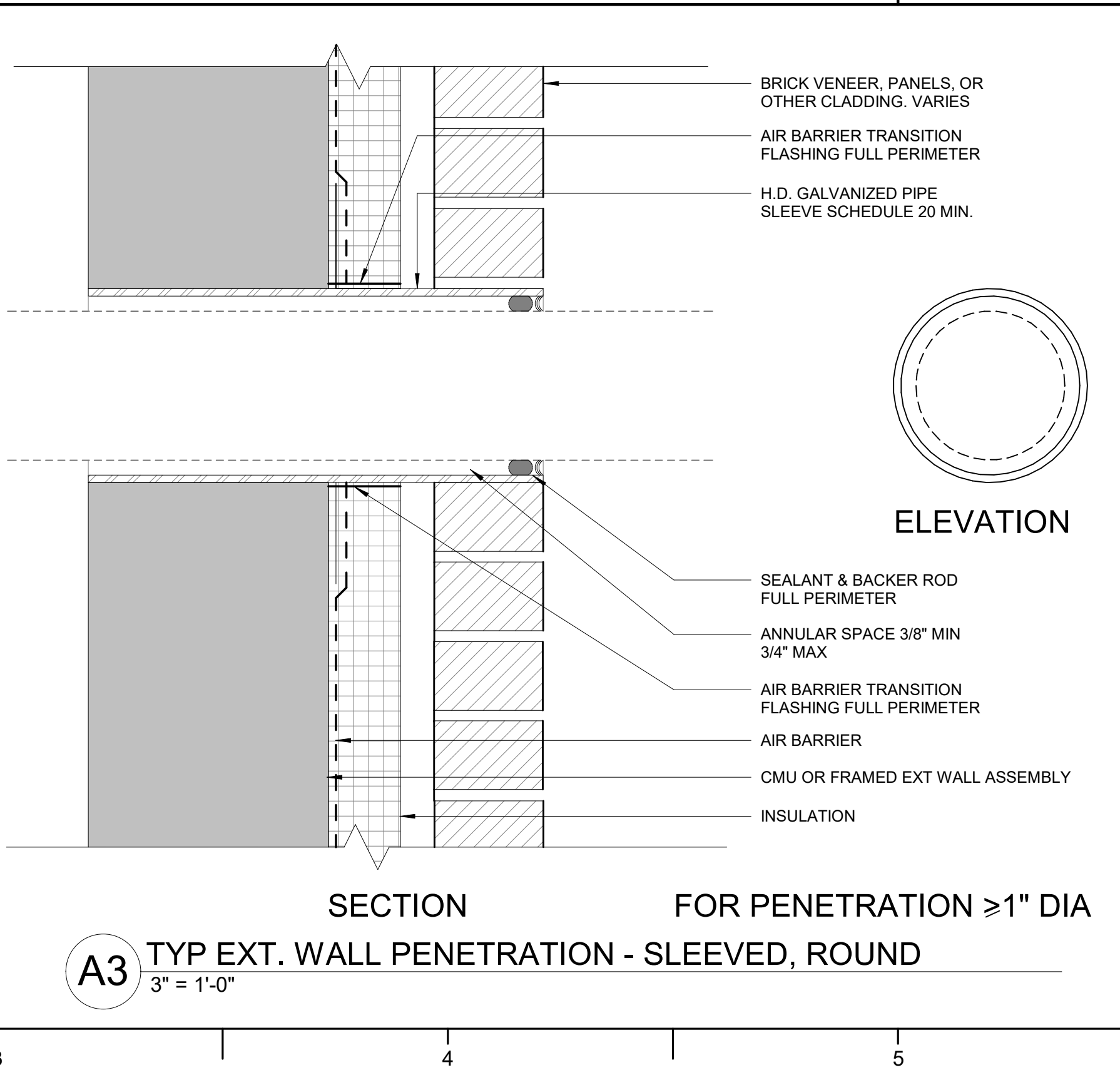
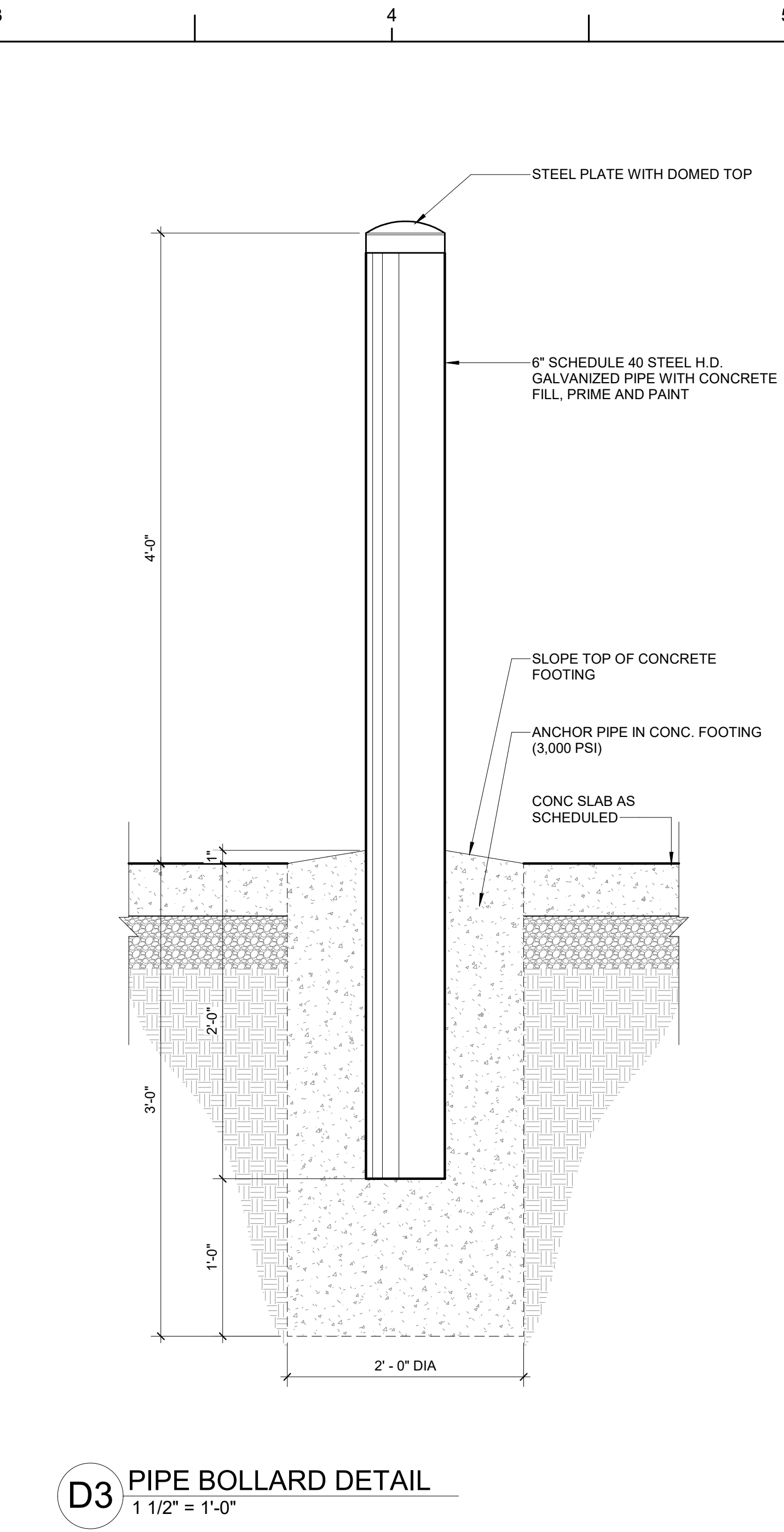
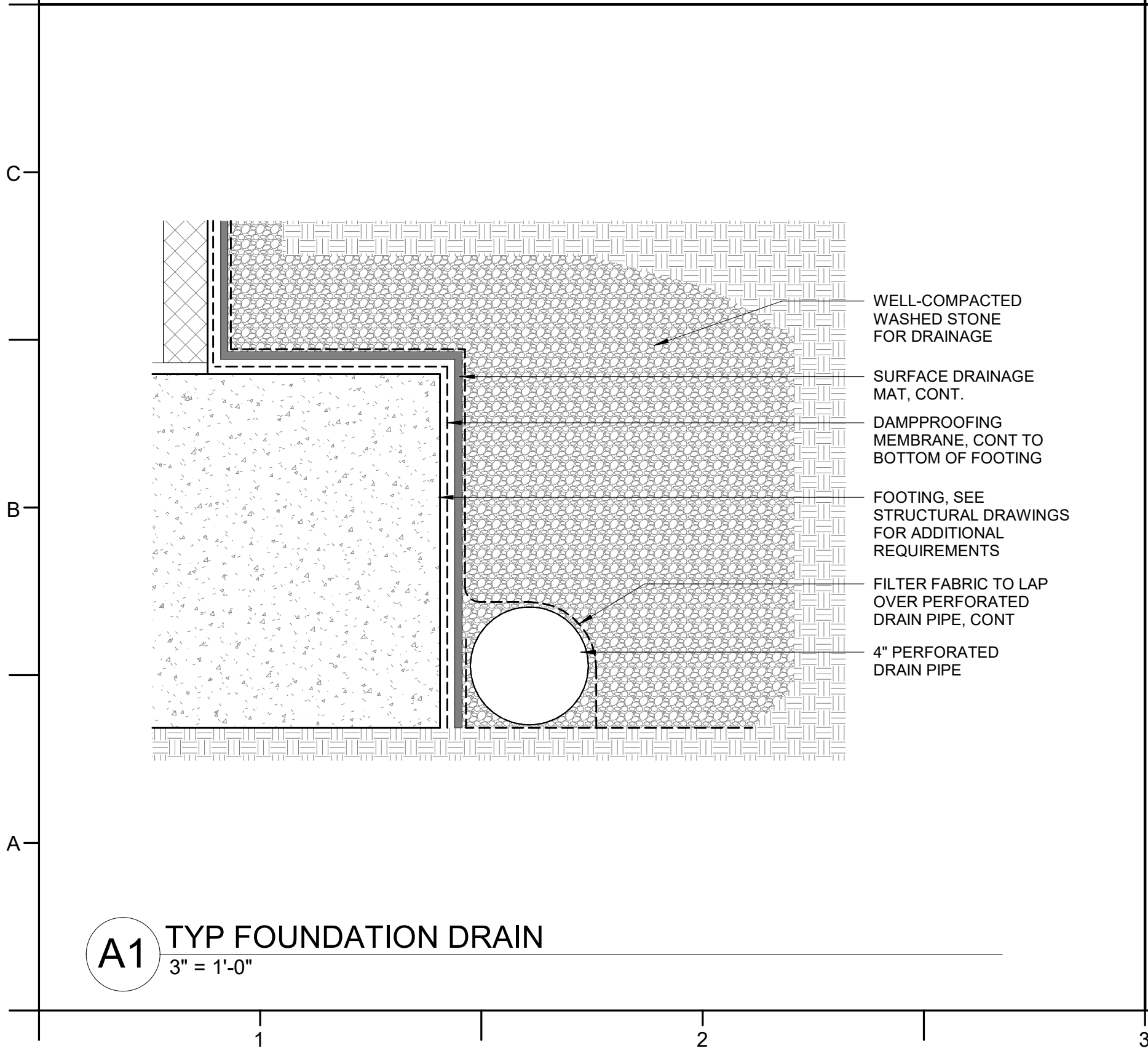
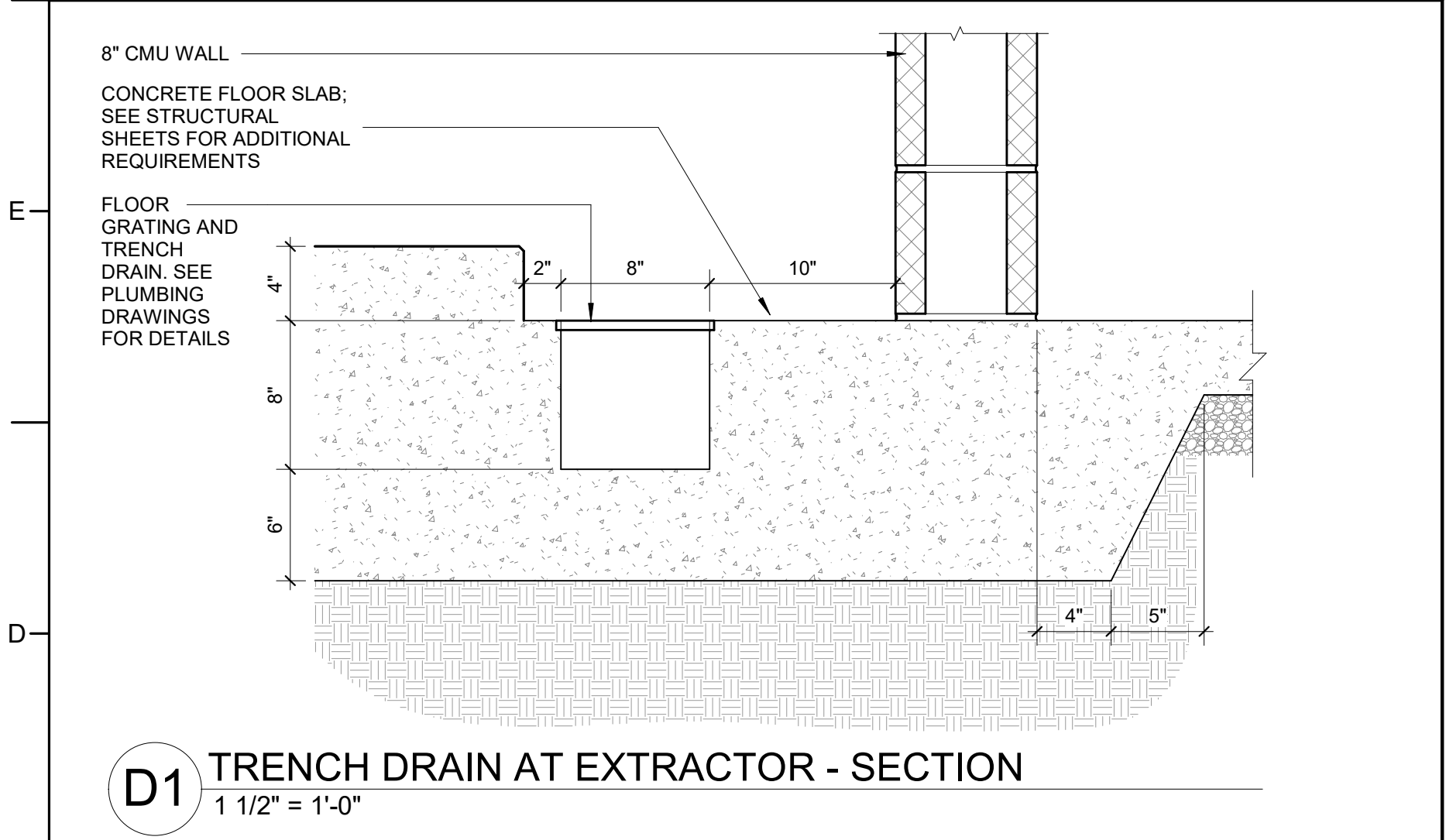
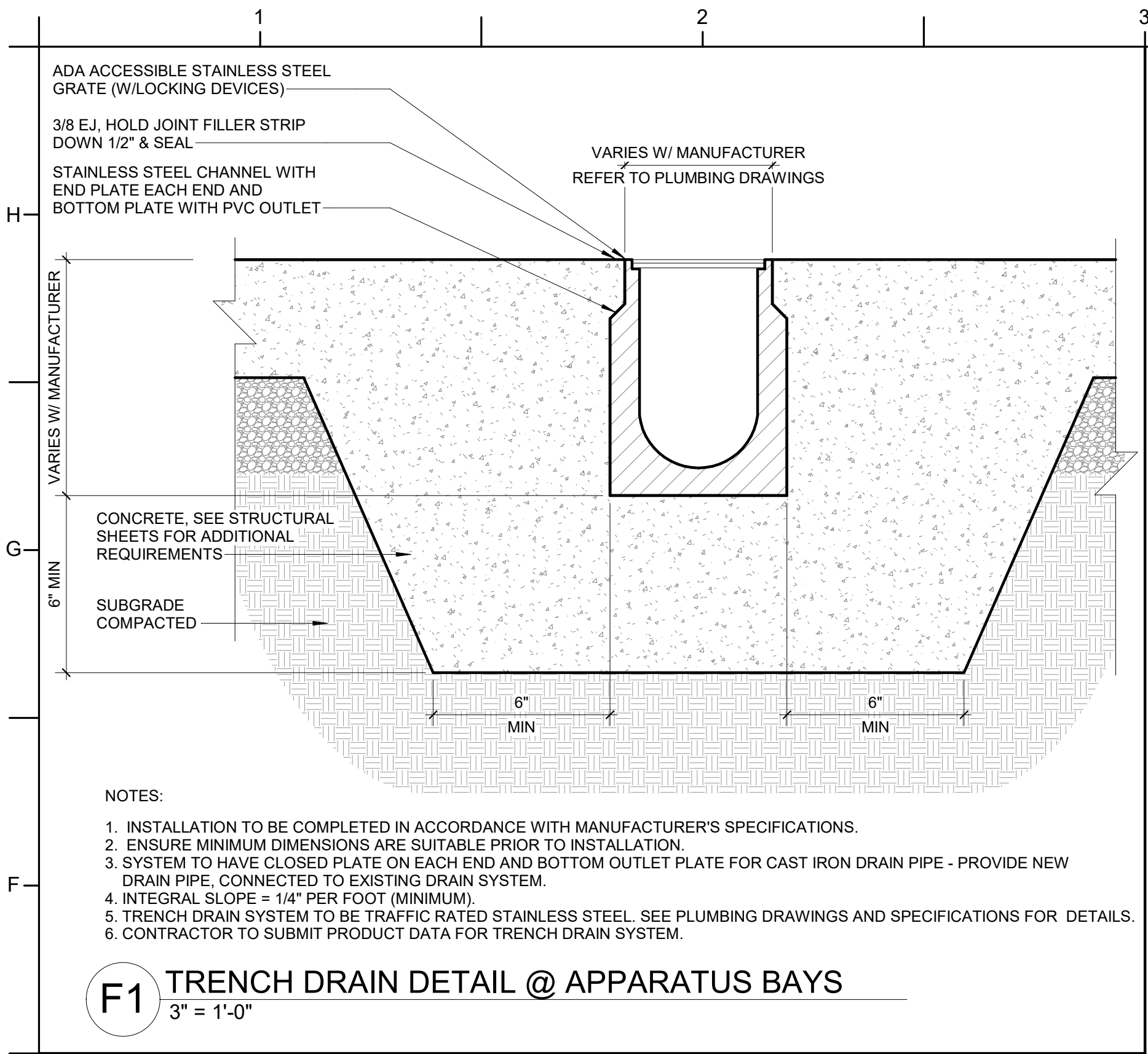
SHEET TITLE

WALL SECTIONS

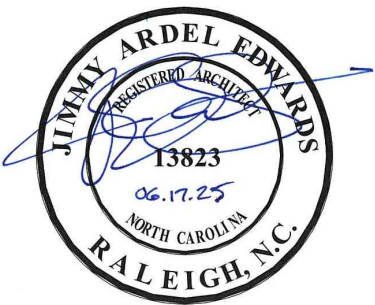
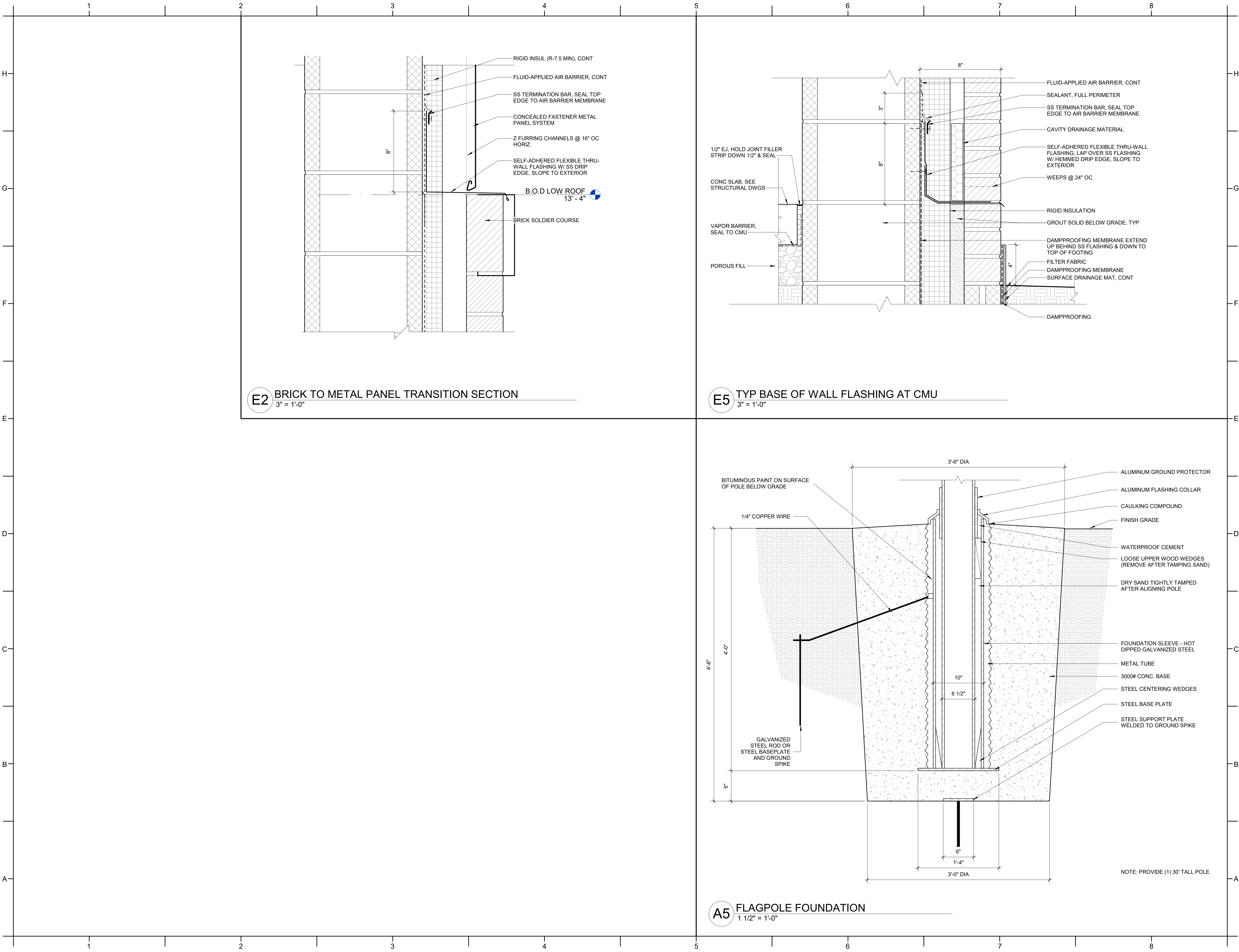
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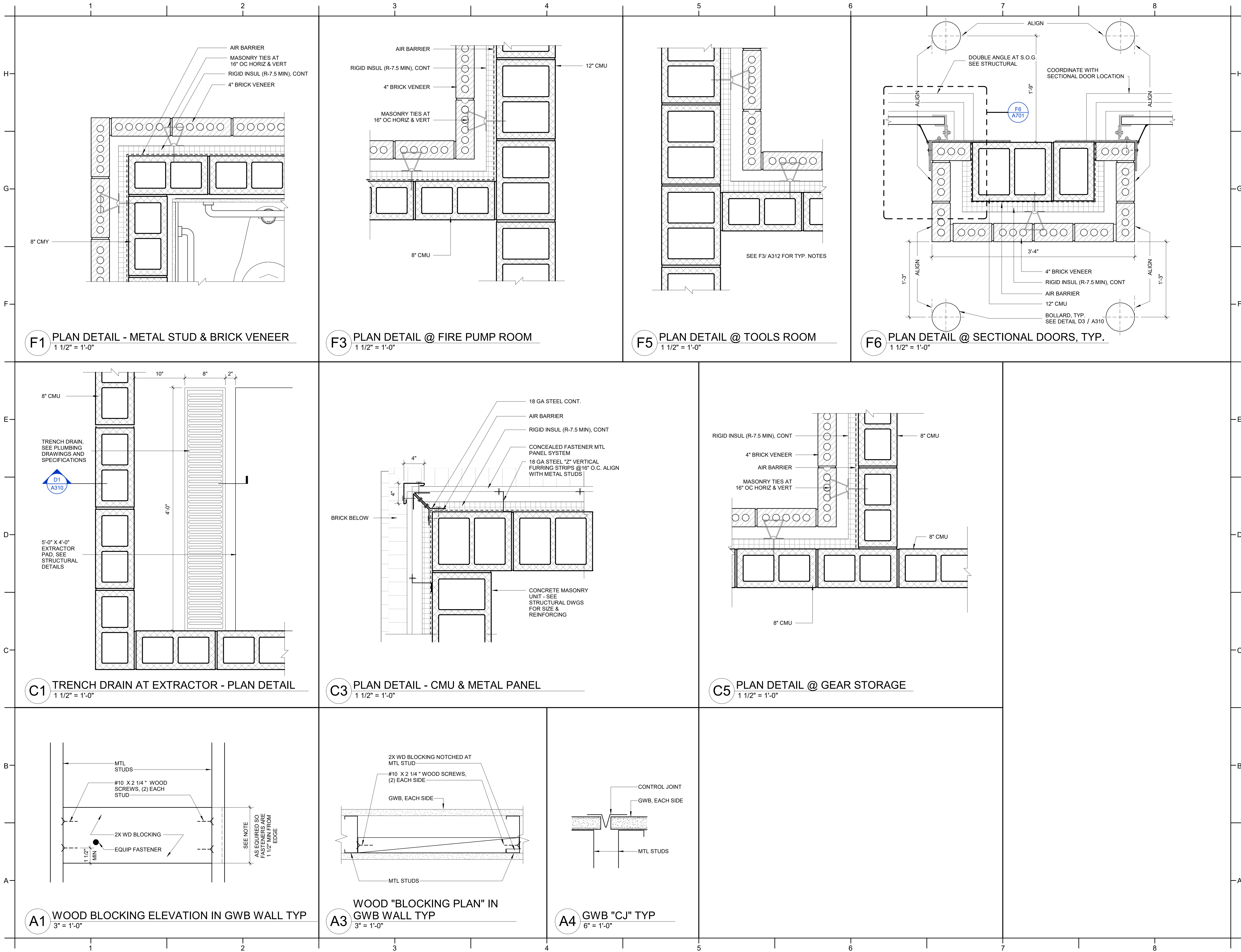


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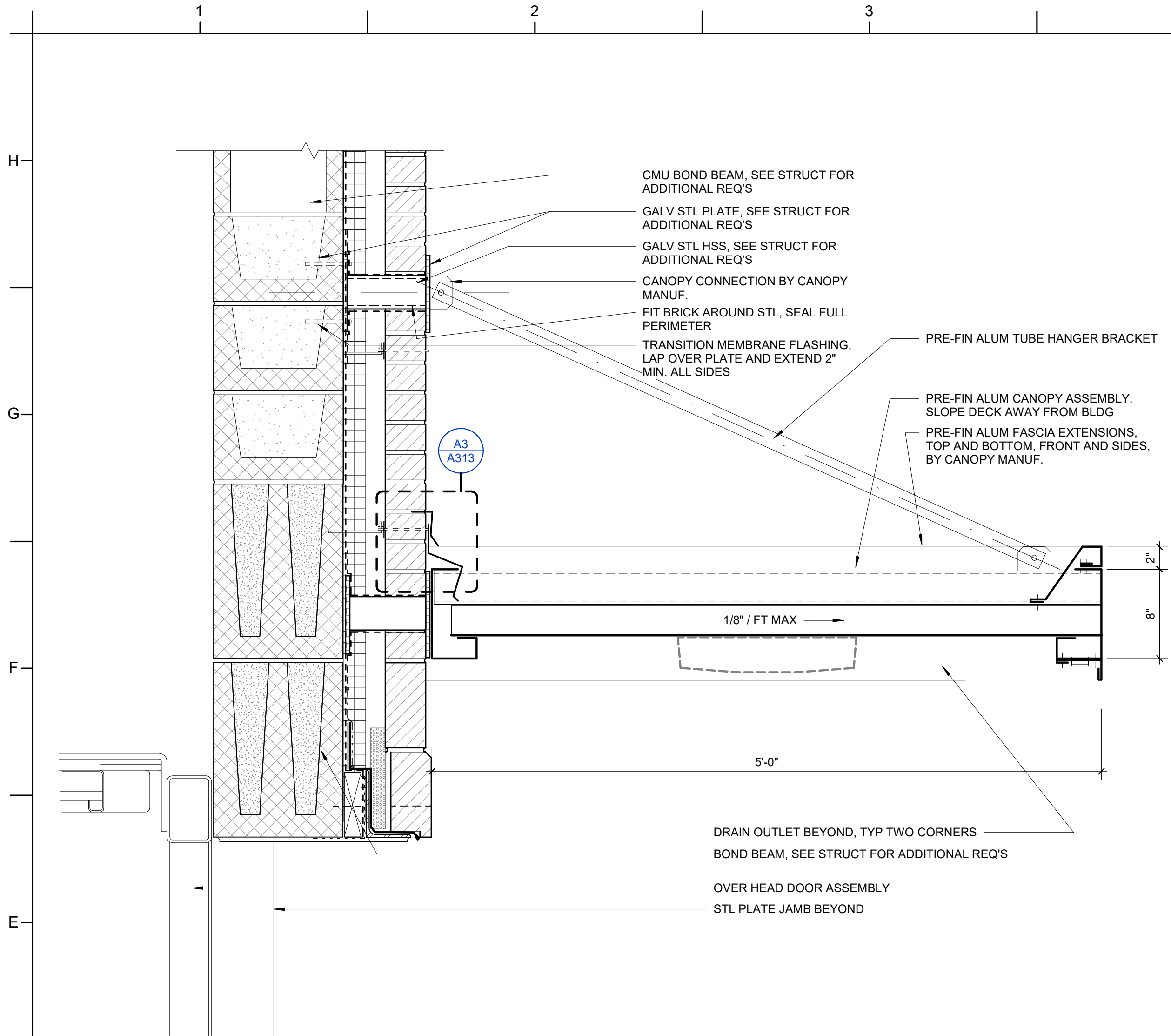
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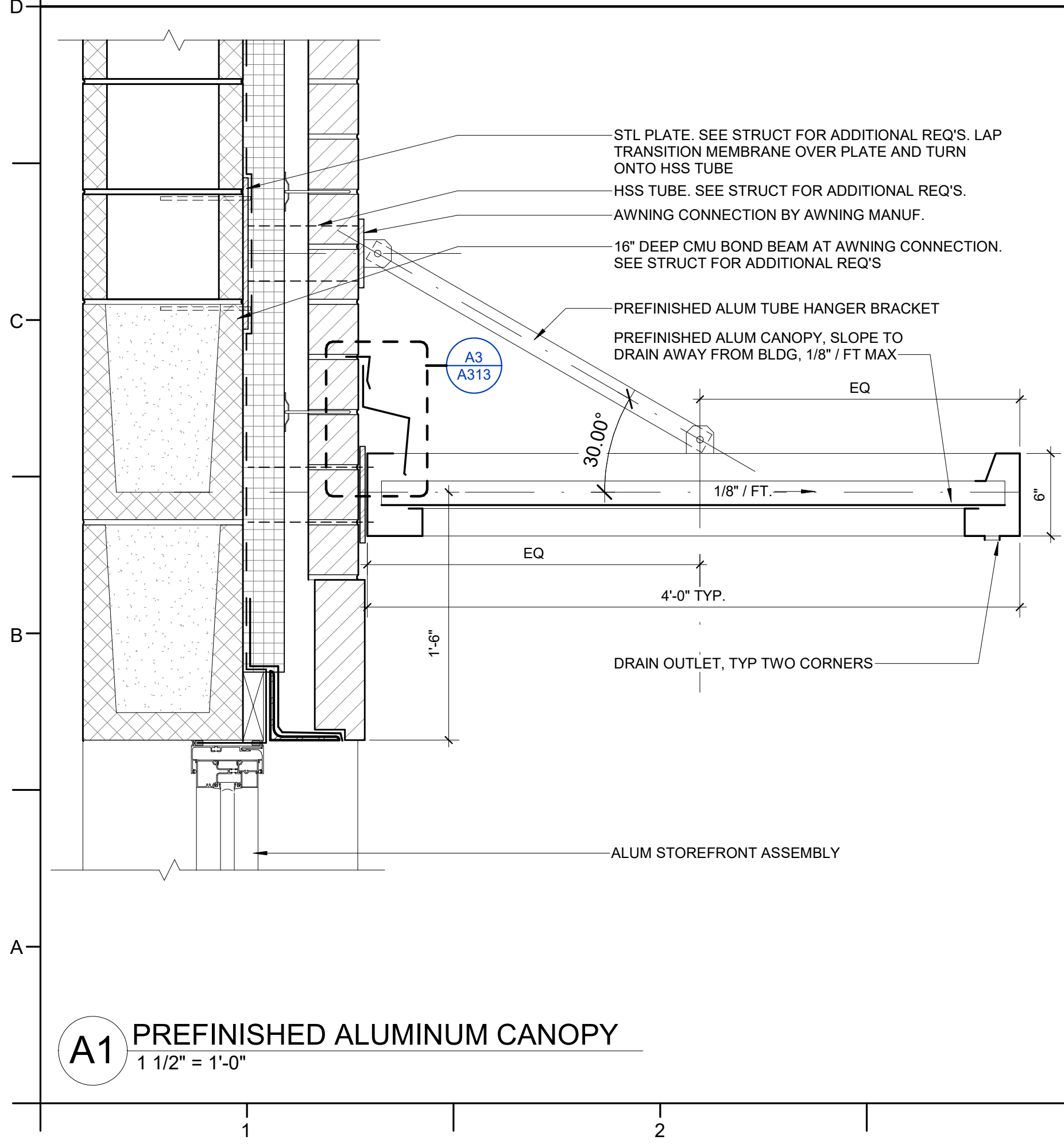




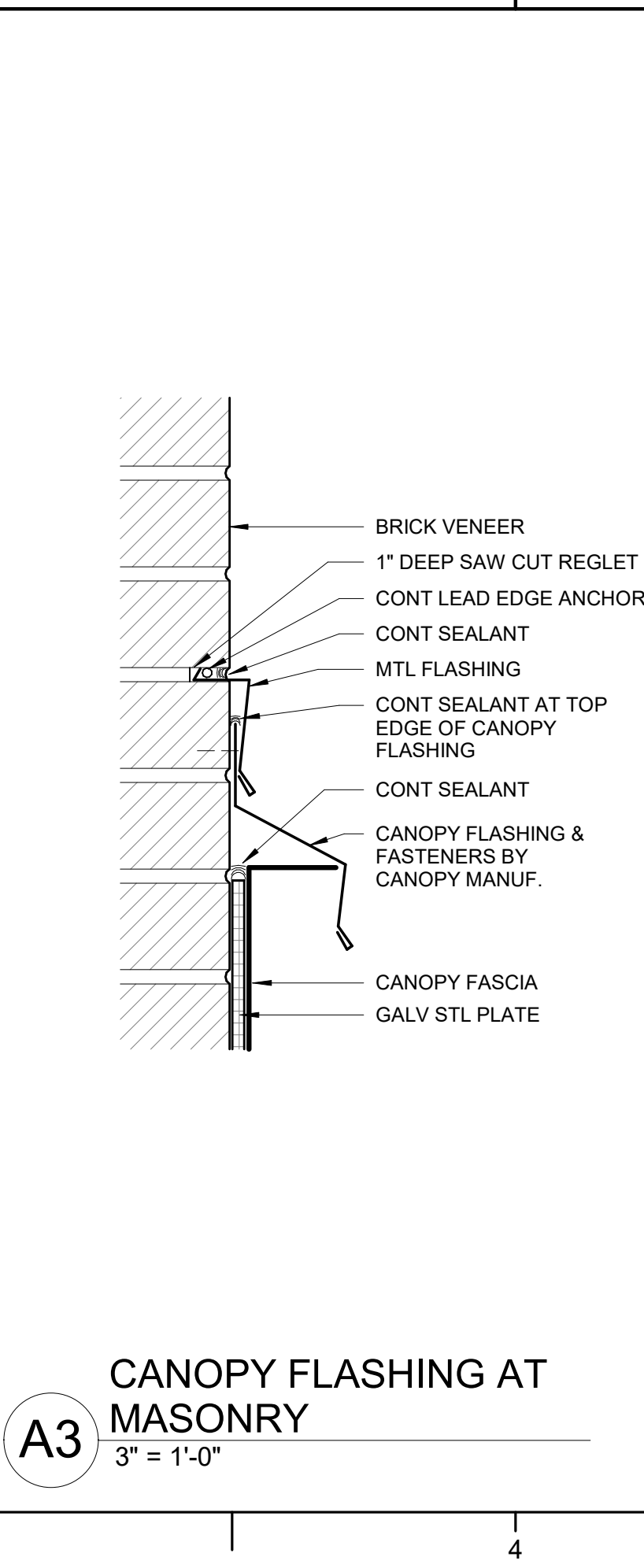




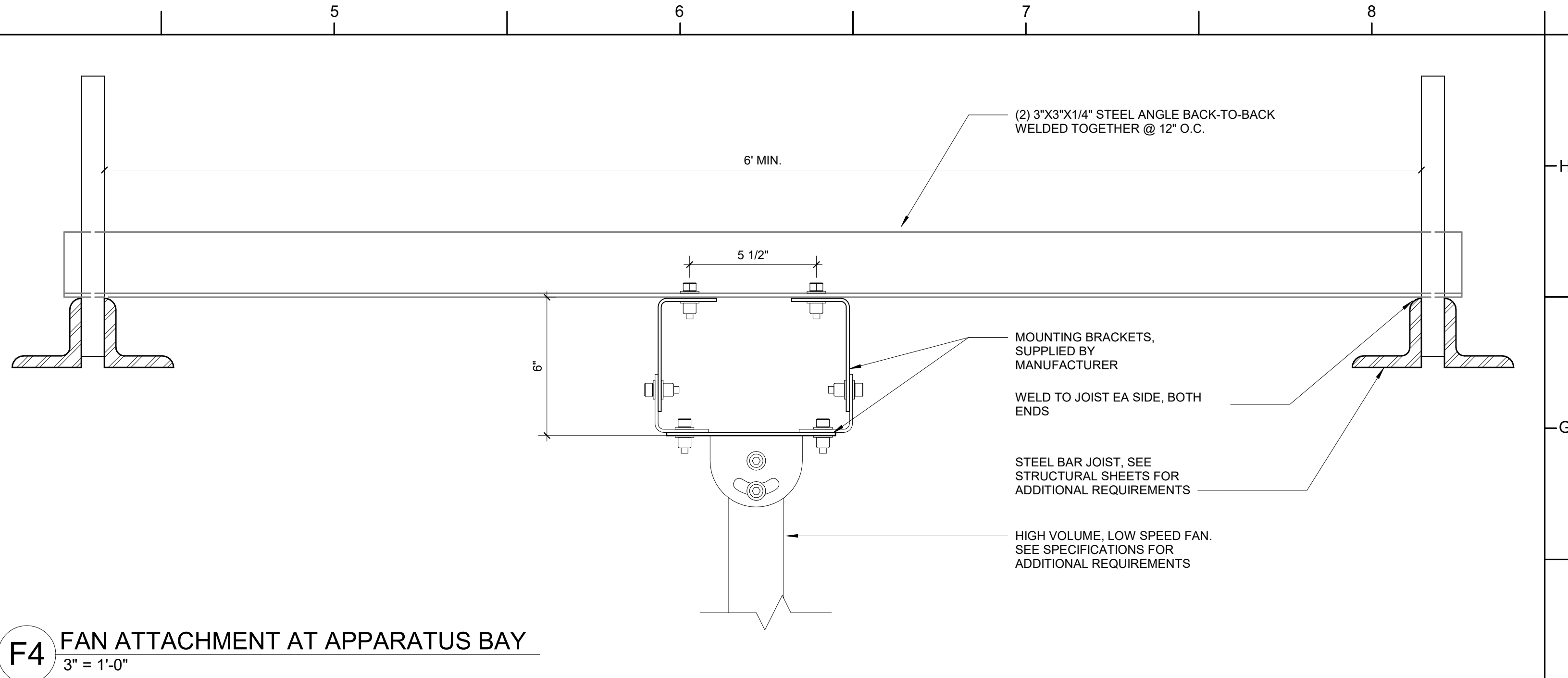
**D1** CANOPY SECTION AT APPARATUS BAY - ALTERNATE 03  
1 1/2" = 1'-0"



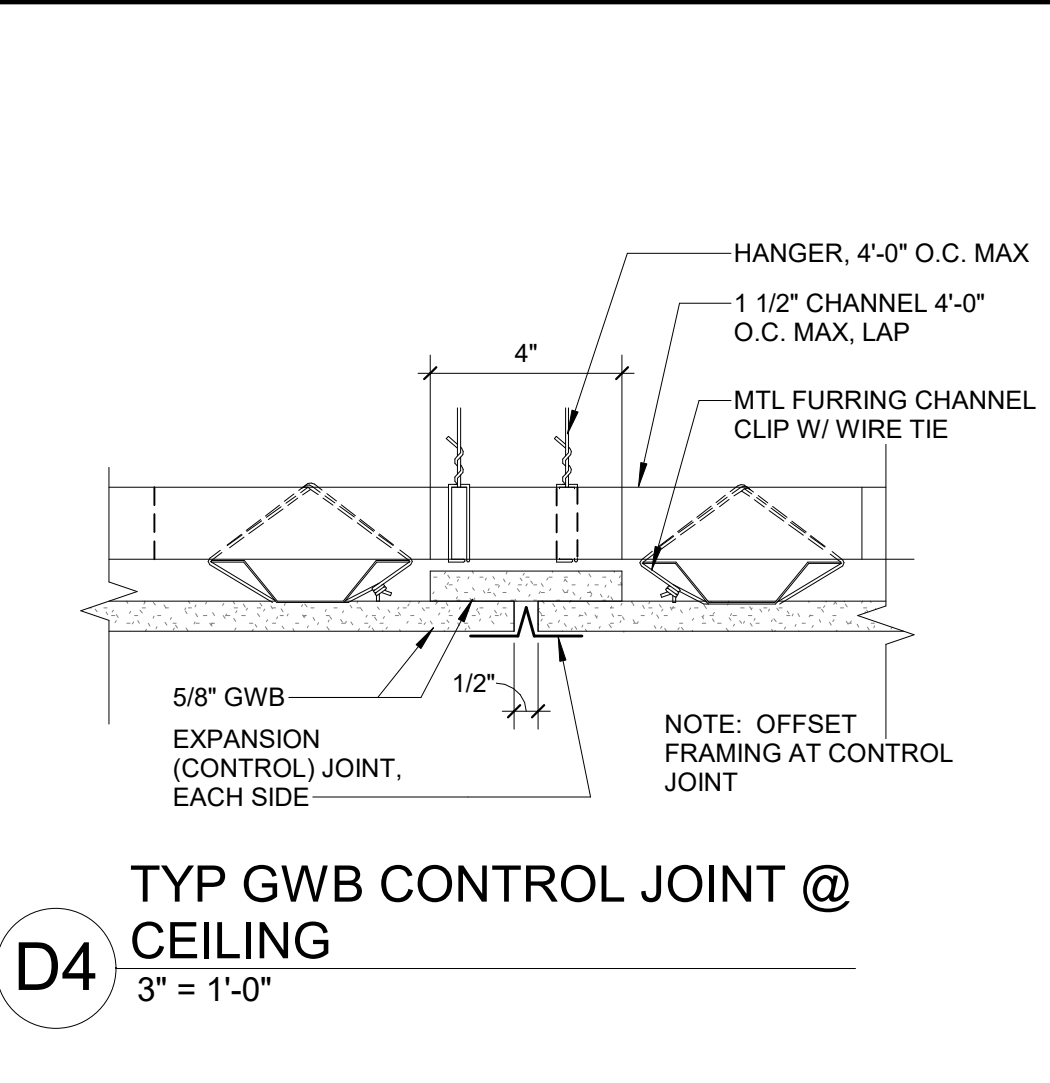
**A1** PREFINISHED ALUMINUM CANOPY  
1 1/2" = 1'-0"



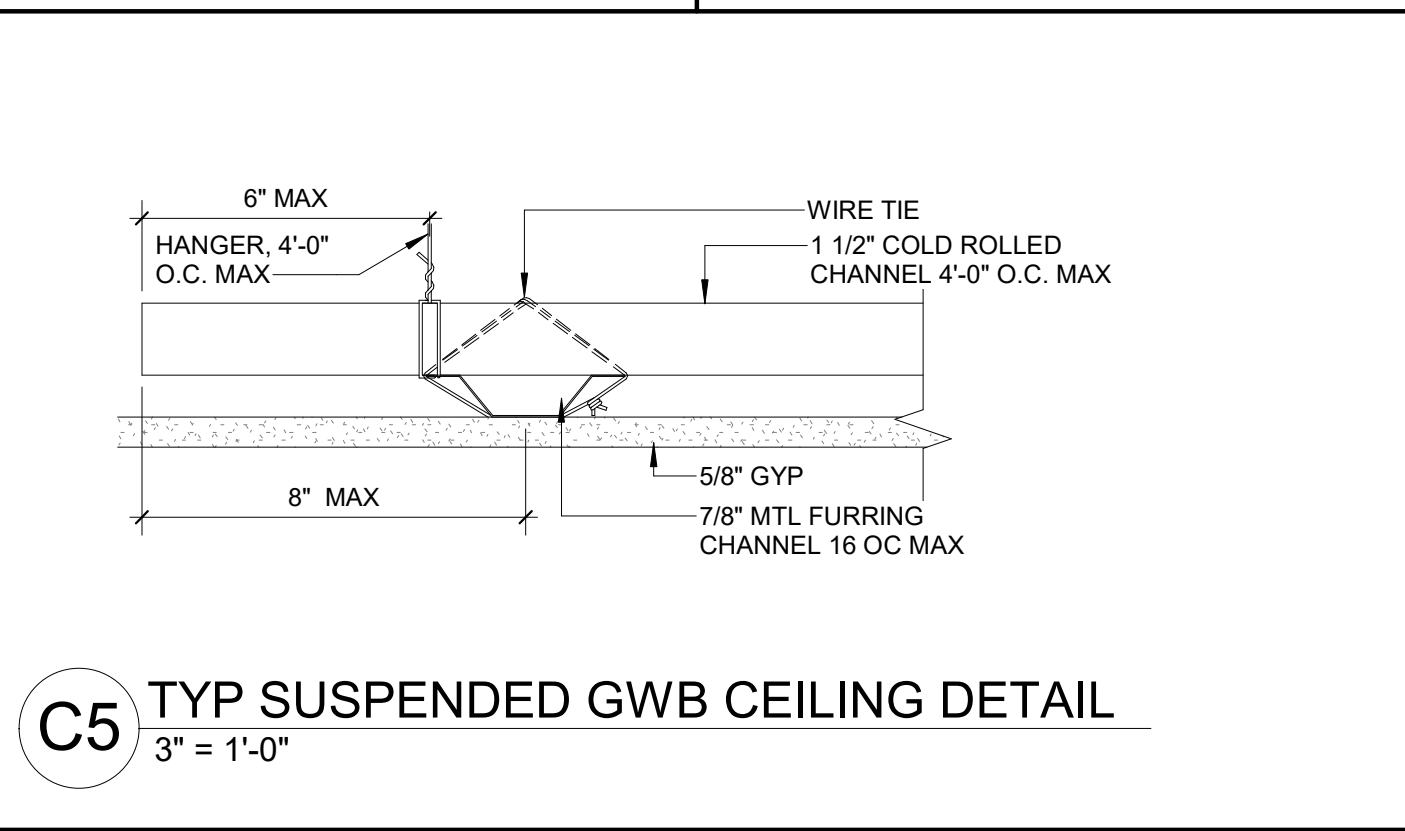
**A3** CANOPY FLASHING AT MASONRY  
3" = 1'-0"



**F4** FAN ATTACHMENT AT APPARATUS BAY  
3" = 1'-0"

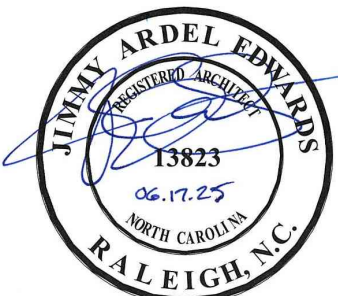


**D4** TYP GWB CONTROL JOINT @ CEILING  
3" = 1'-0"



**C5** TYP SUSPENDED GWB CEILING DETAIL  
3" = 1'-0"

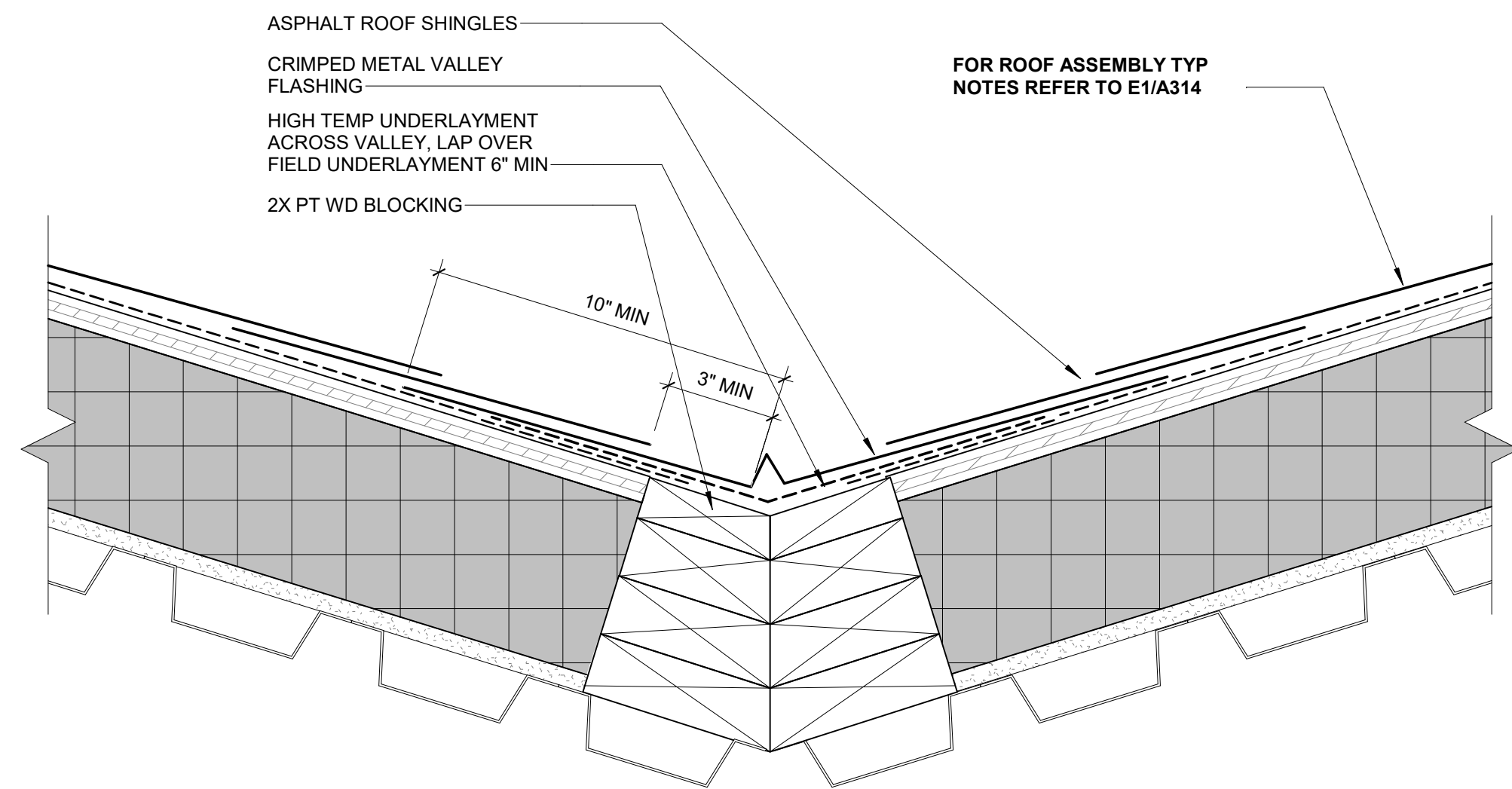




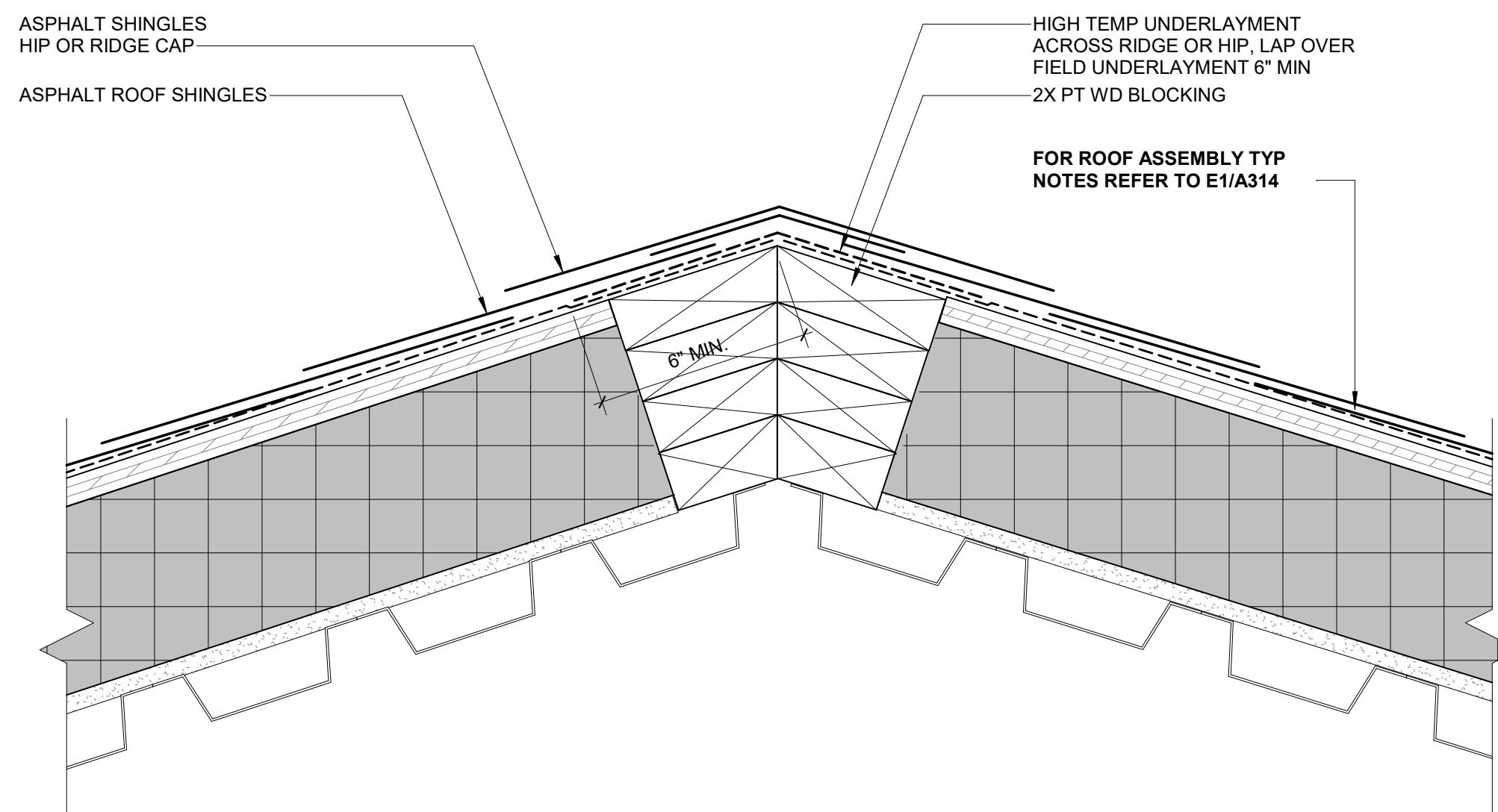
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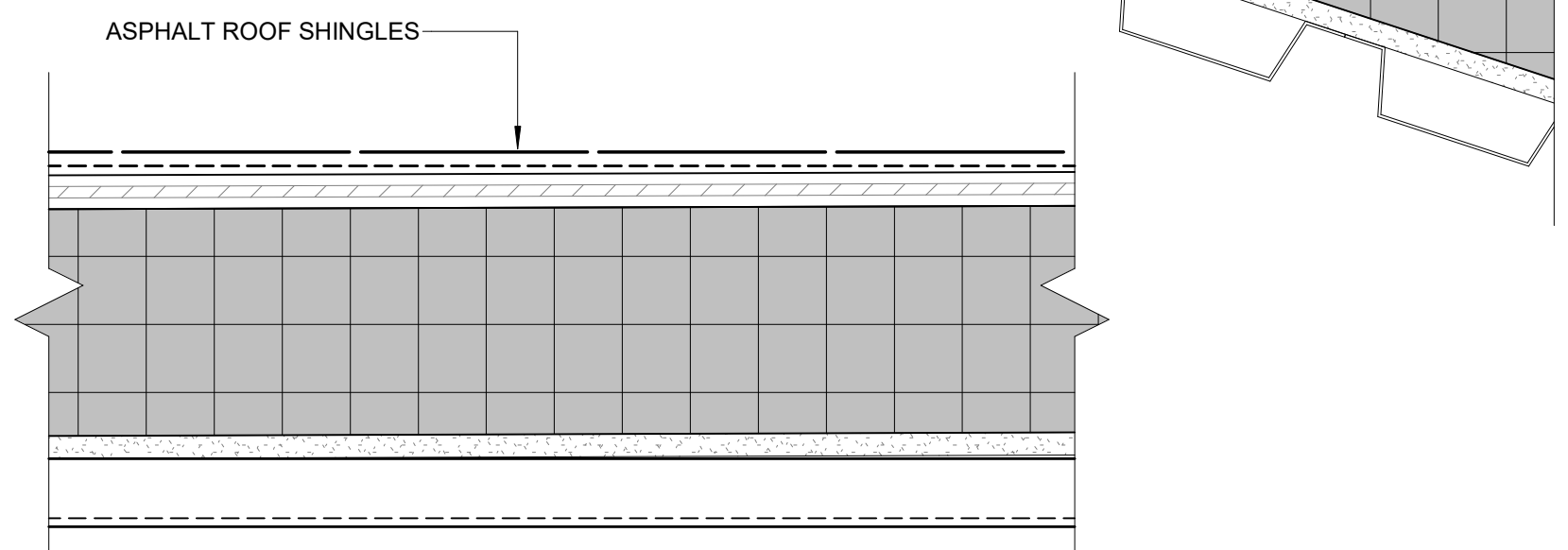
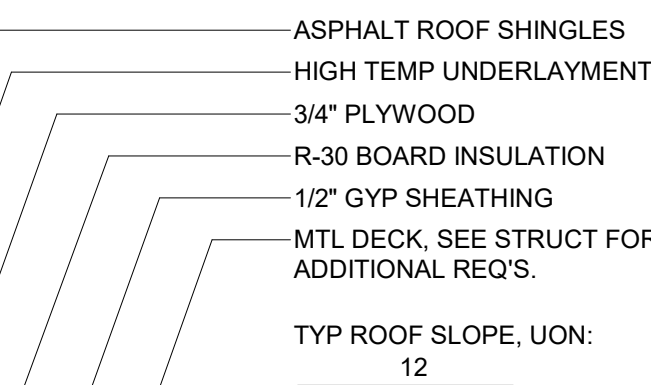
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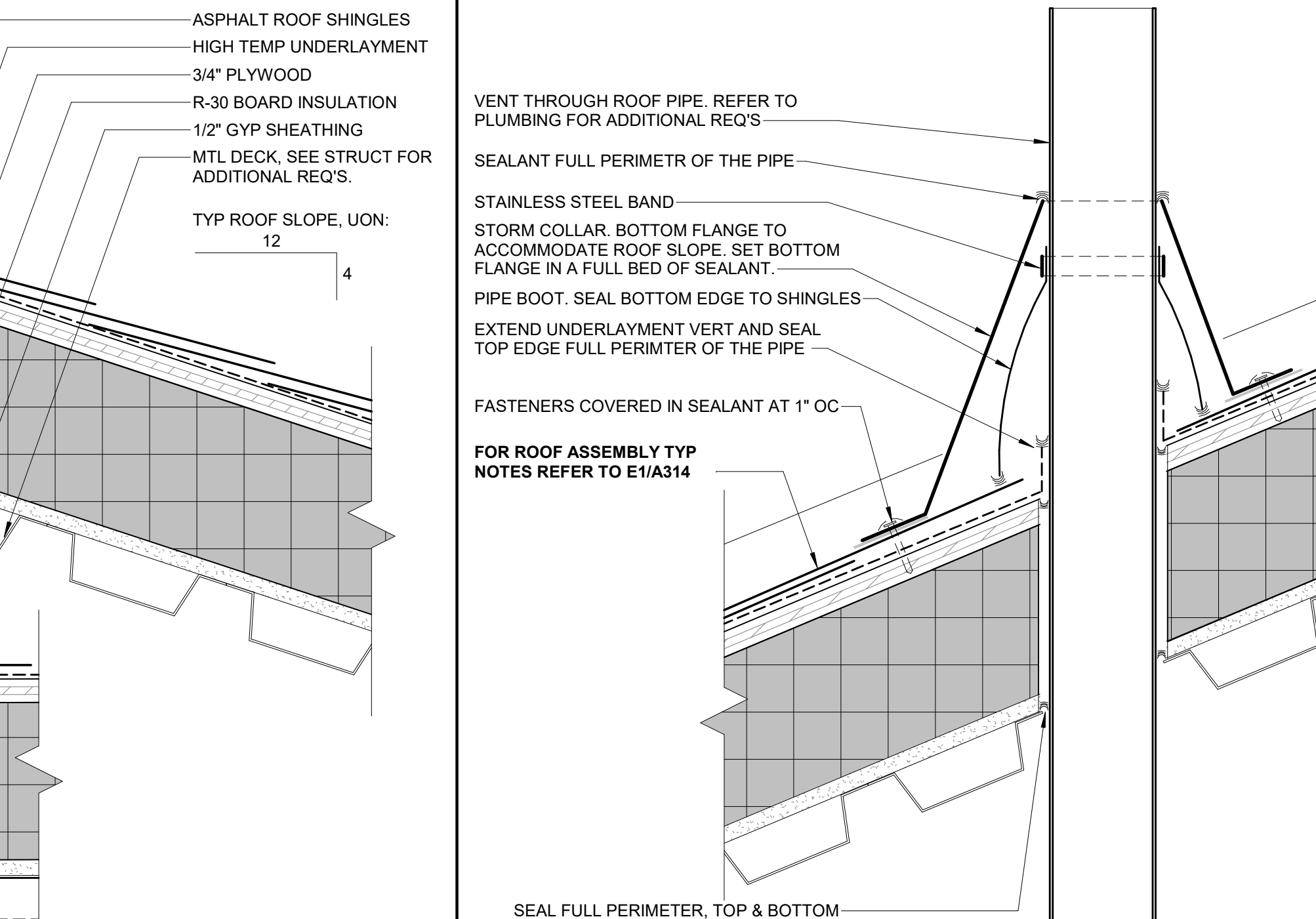
**F6** TYP ROOF VALLEY DETAIL  
3" = 1'-0"



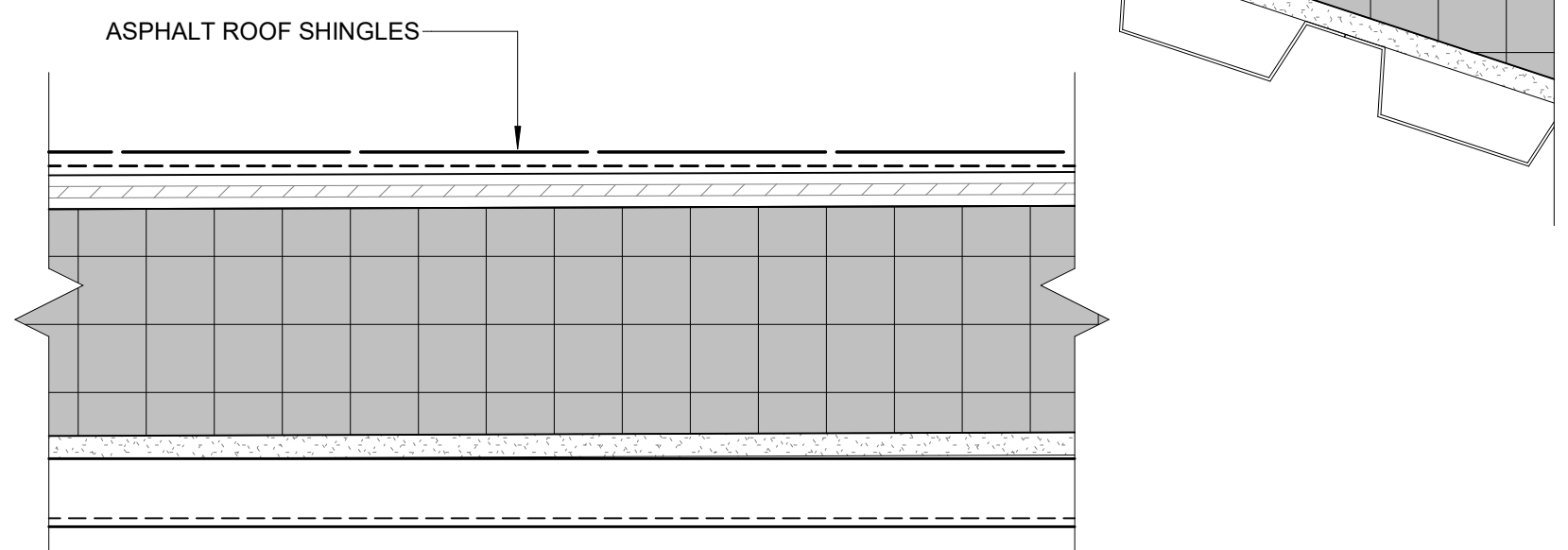
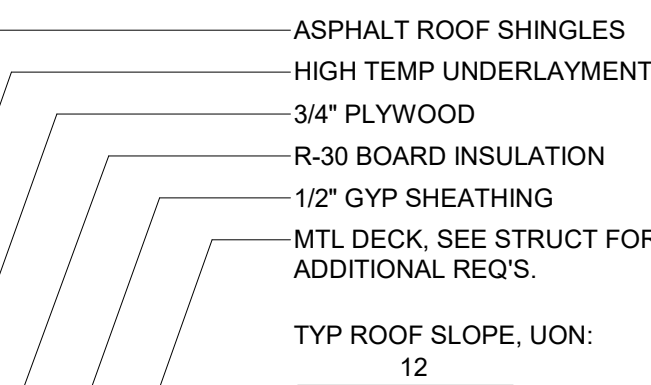
**D6** TYP ROOF RIDGE/HIP DETAIL  
3" = 1'-0"



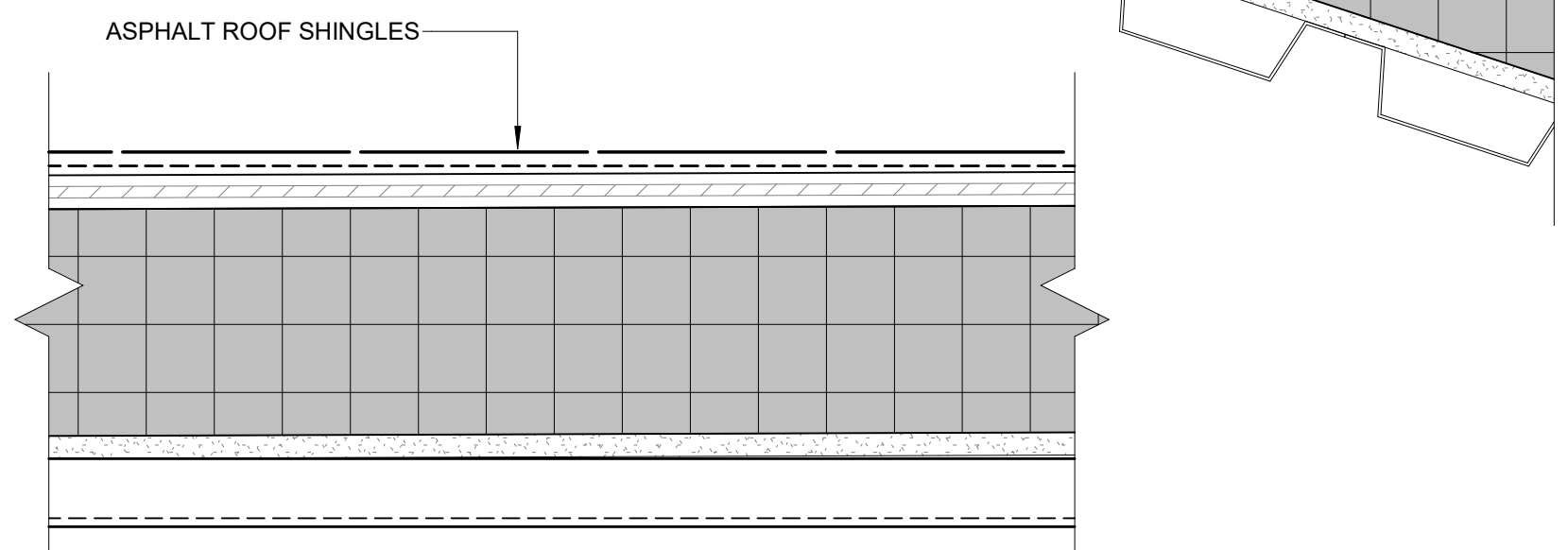
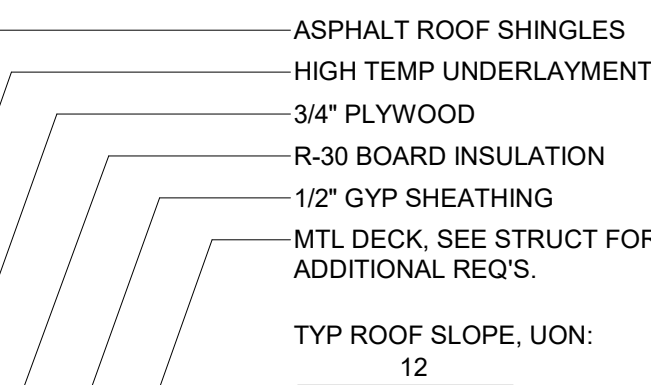
**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



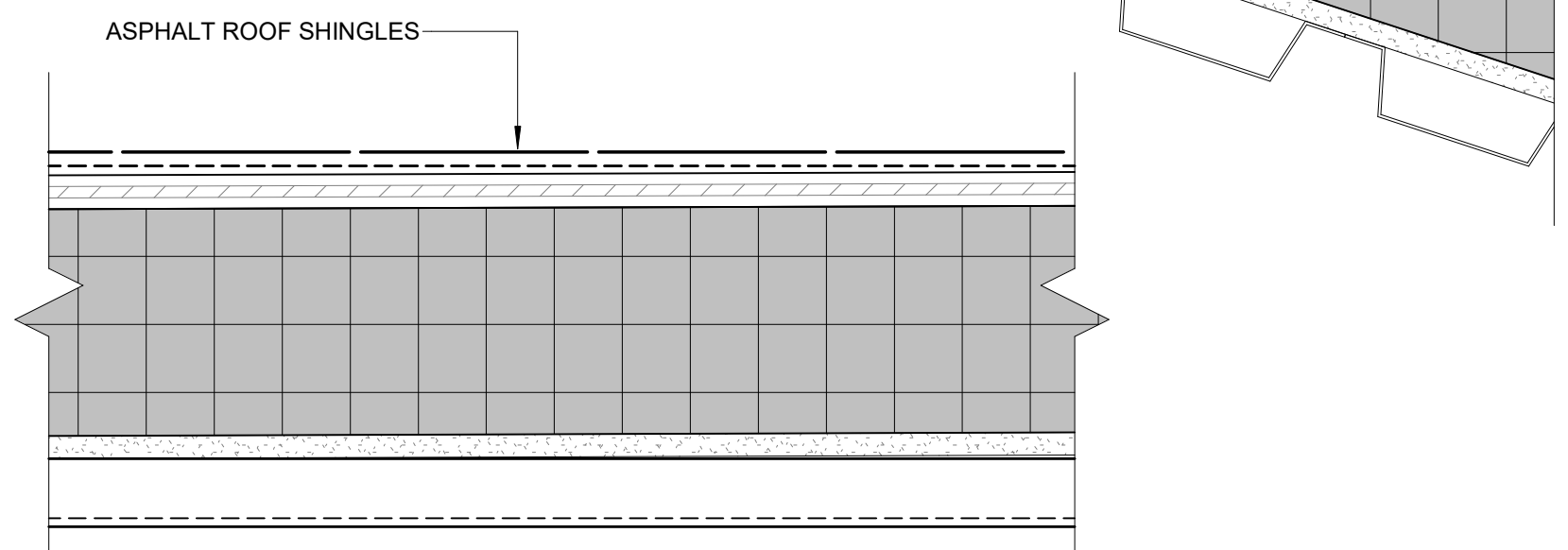
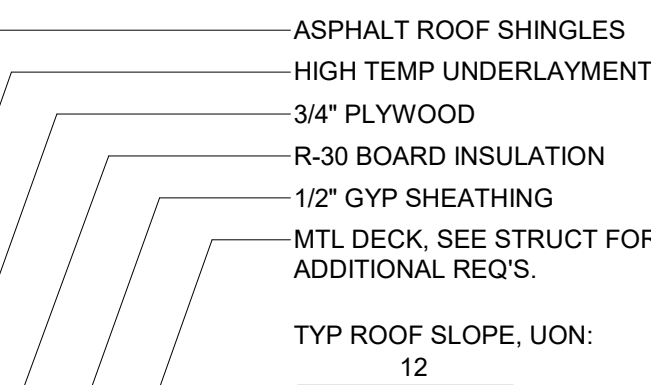
**A7** TYP ROOF PENETRATION  
3" = 1'-0"



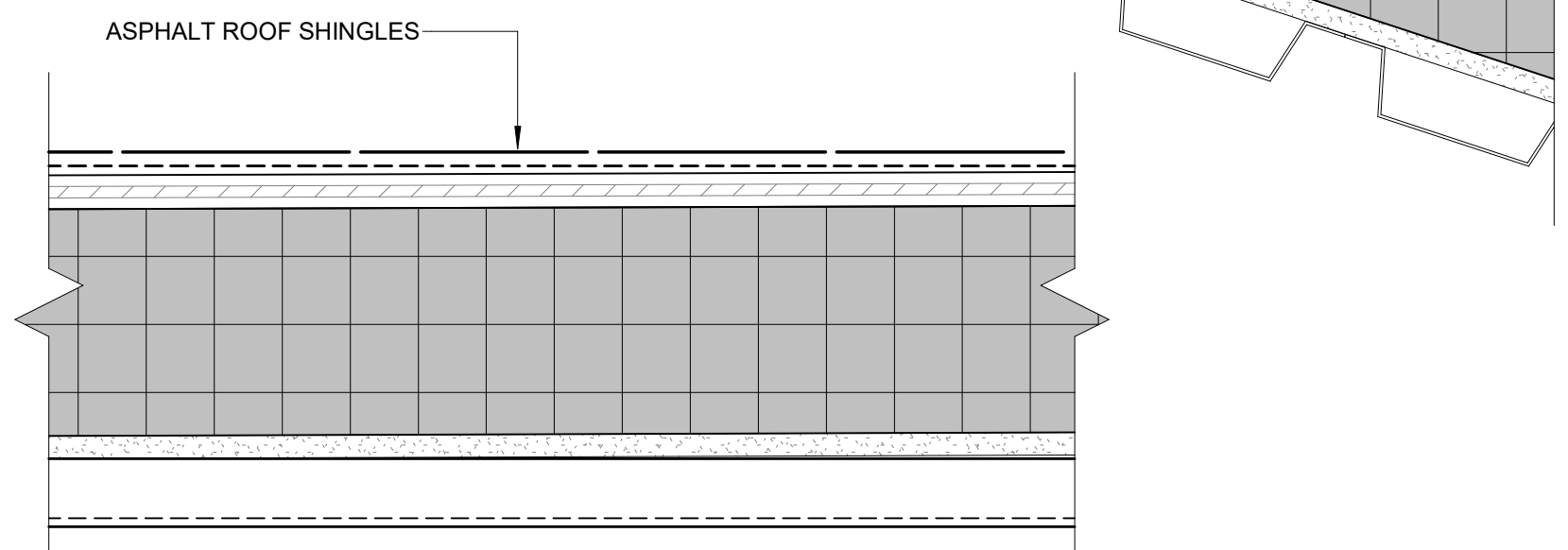
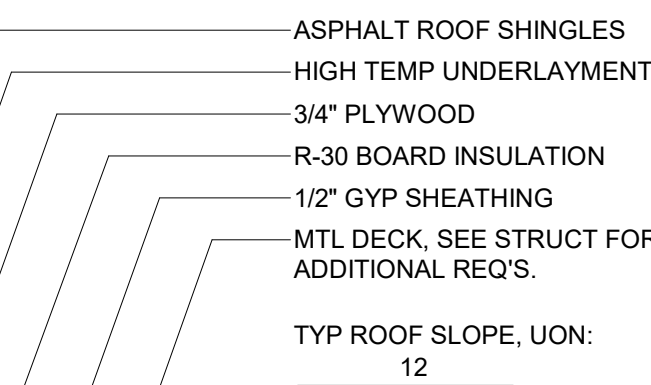
**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



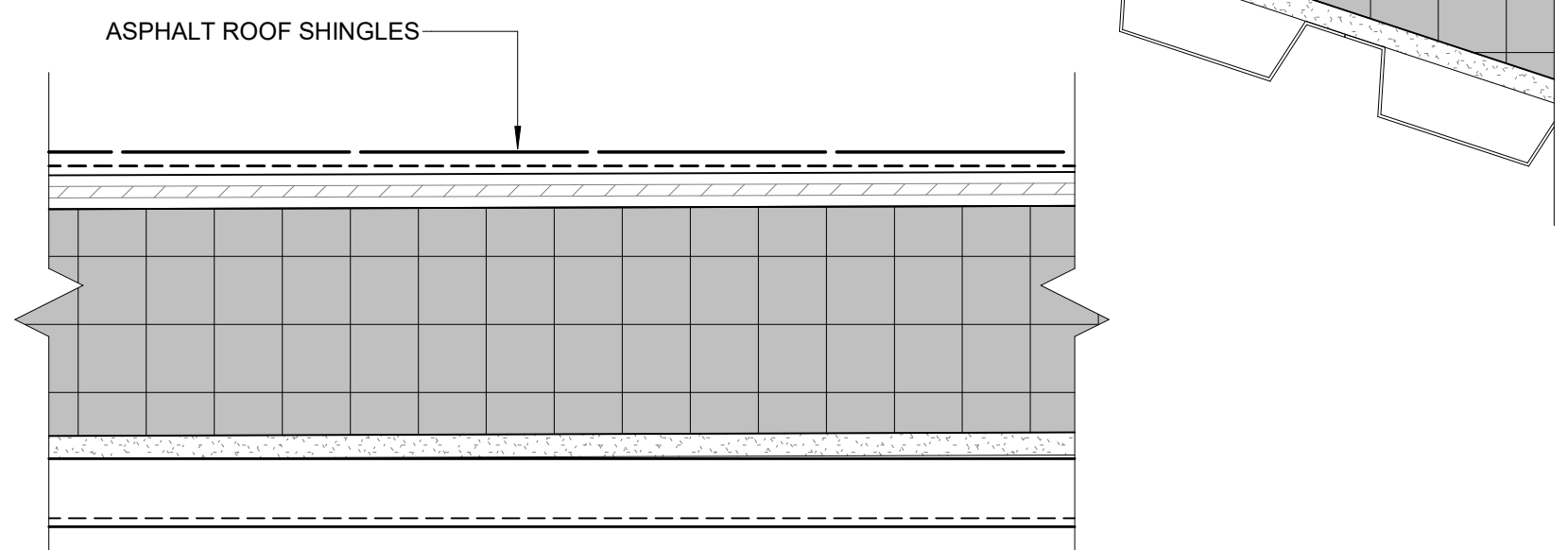
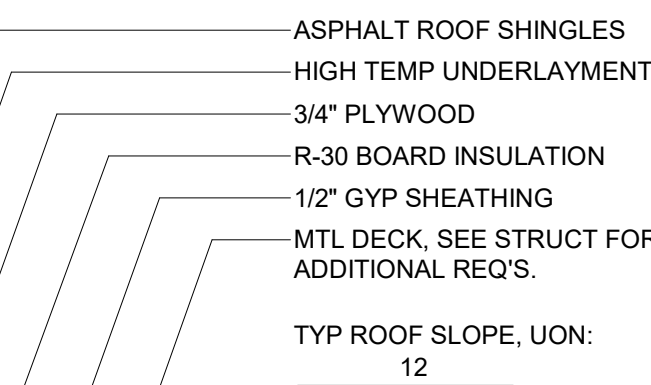
**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



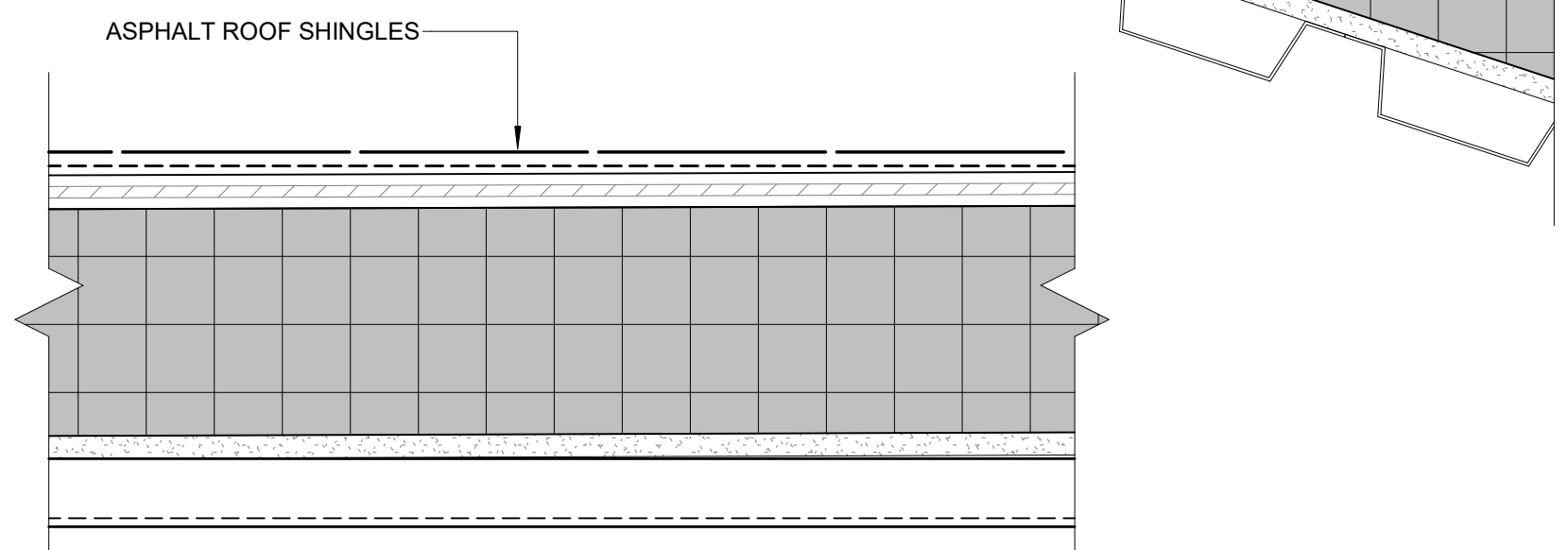
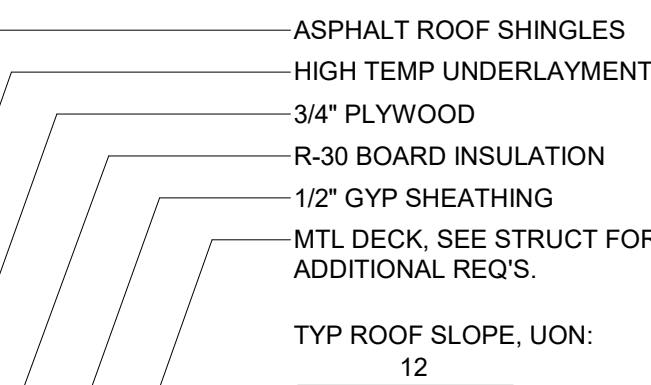
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3" = 1'-0"



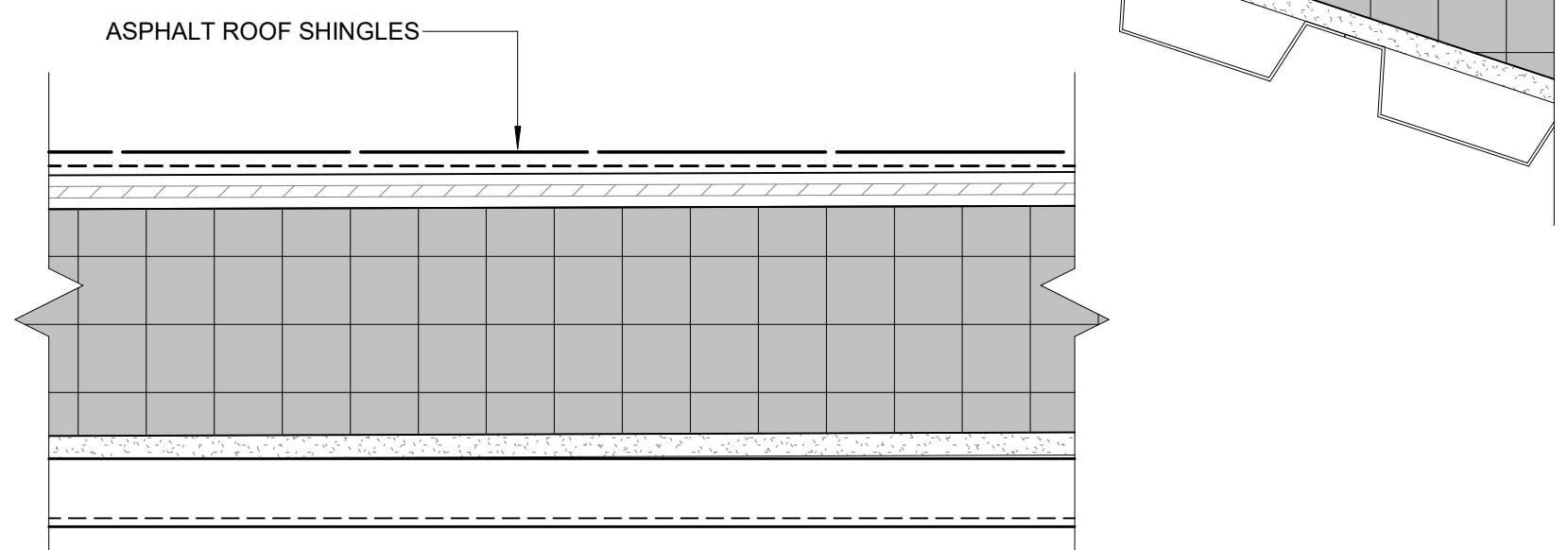
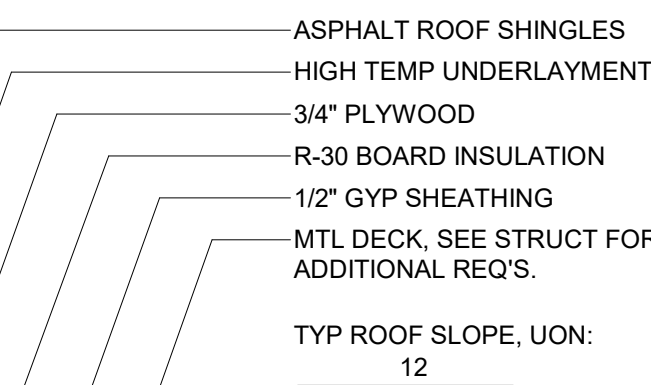
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3" = 1'-0"



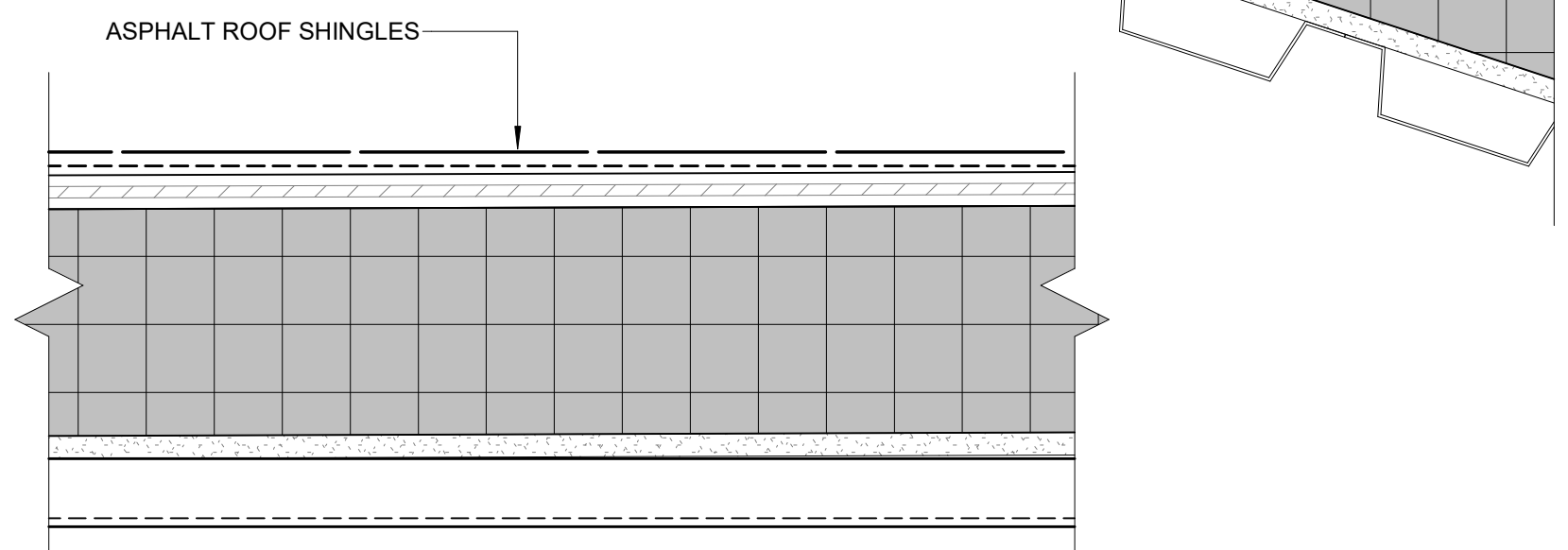
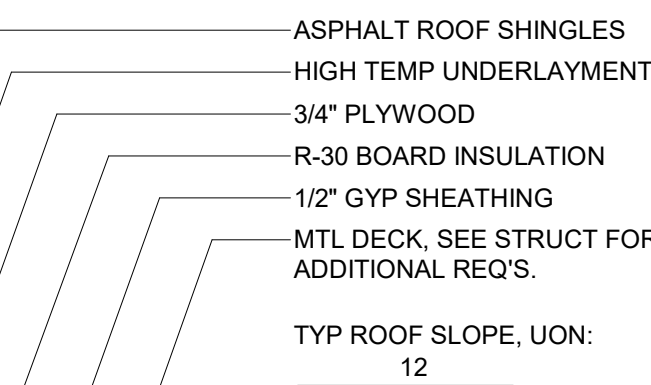
**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



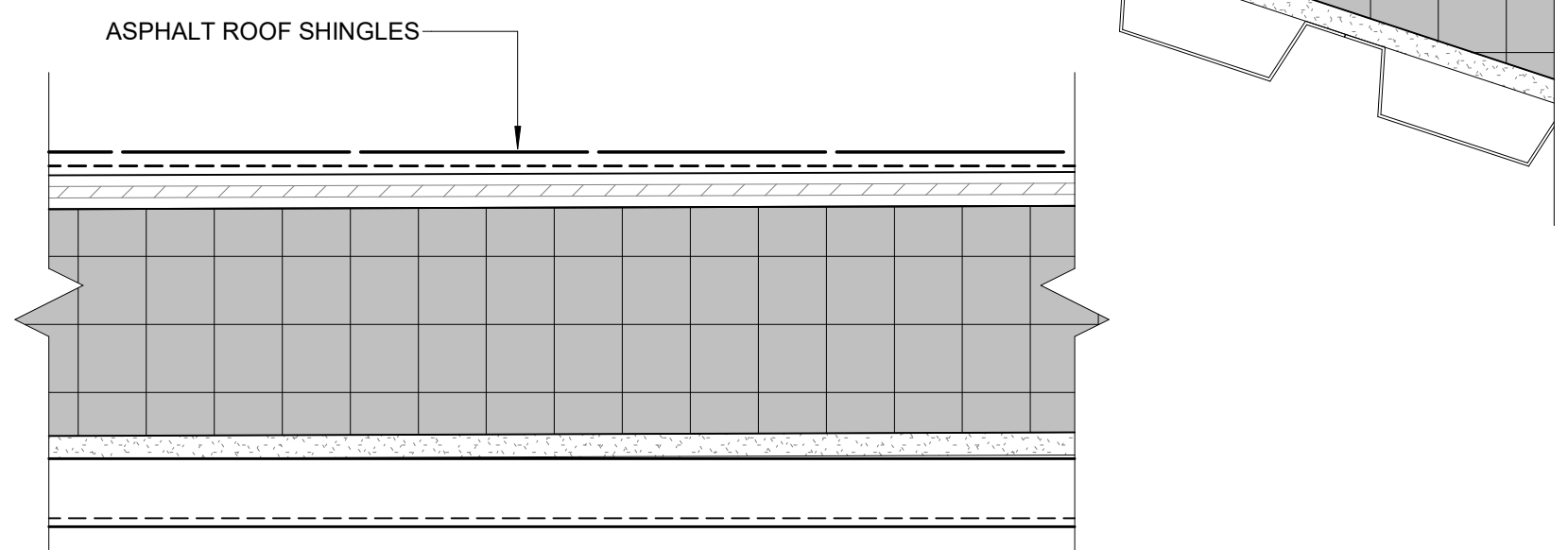
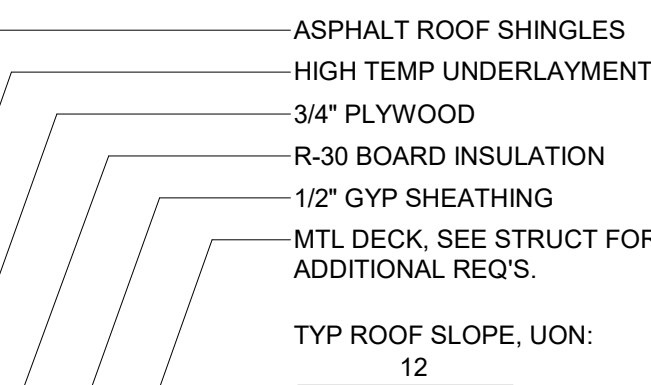
**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



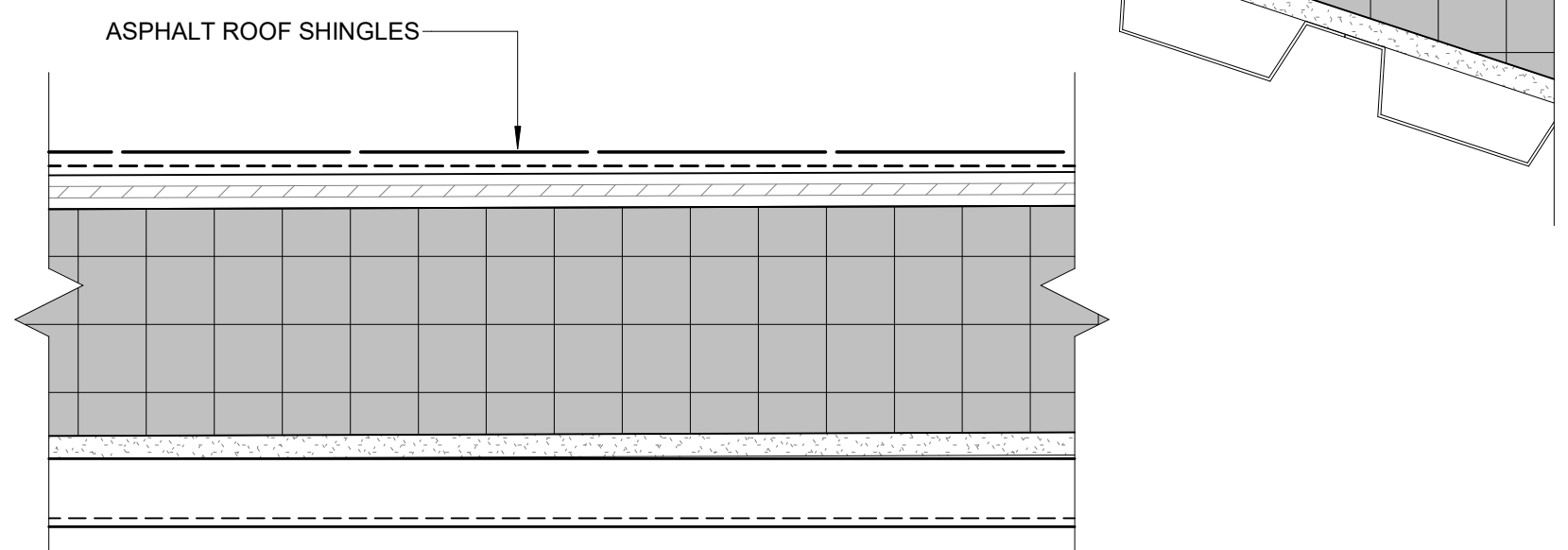
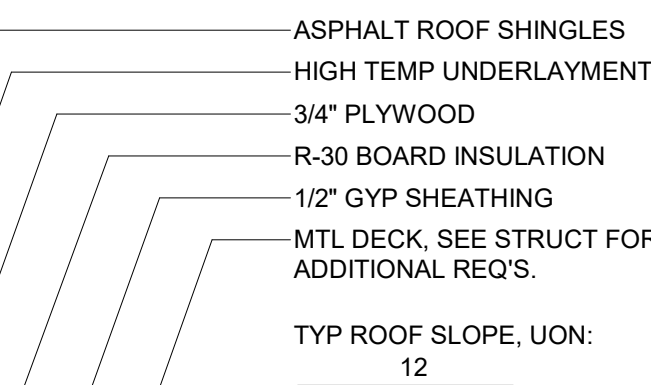
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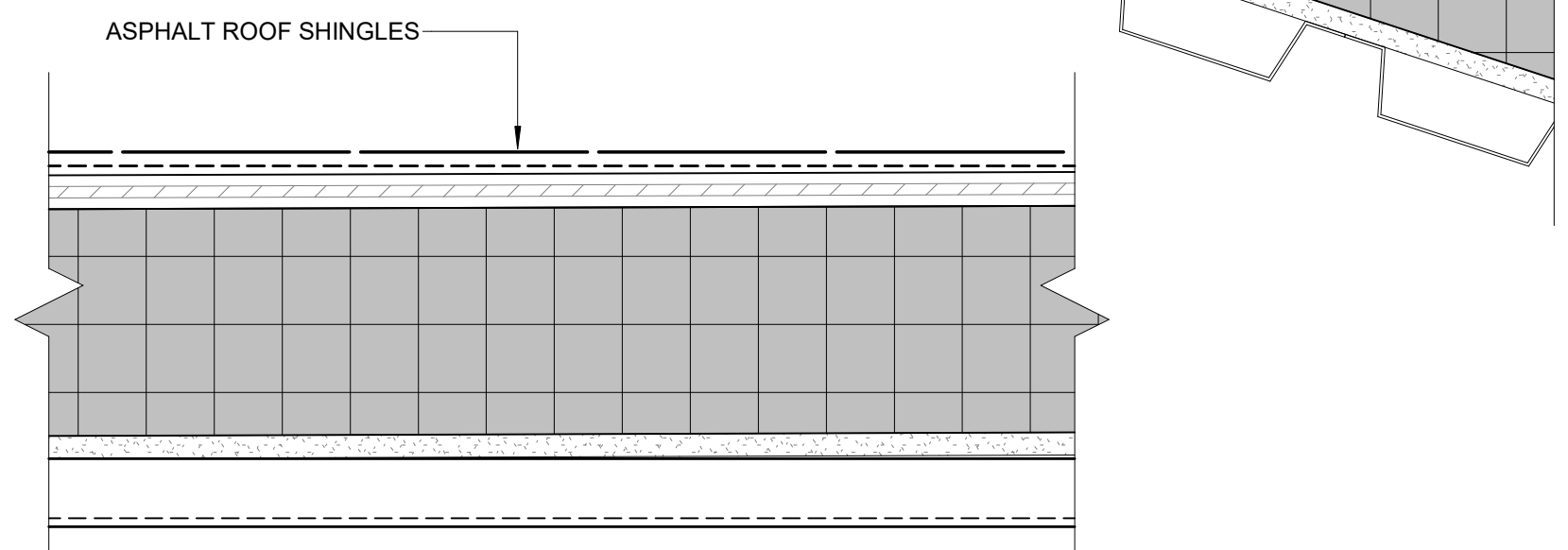
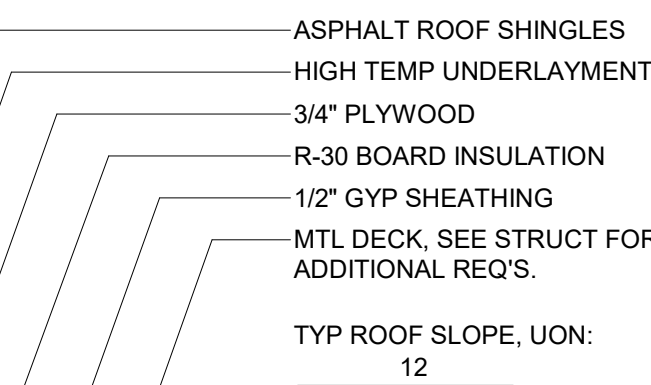
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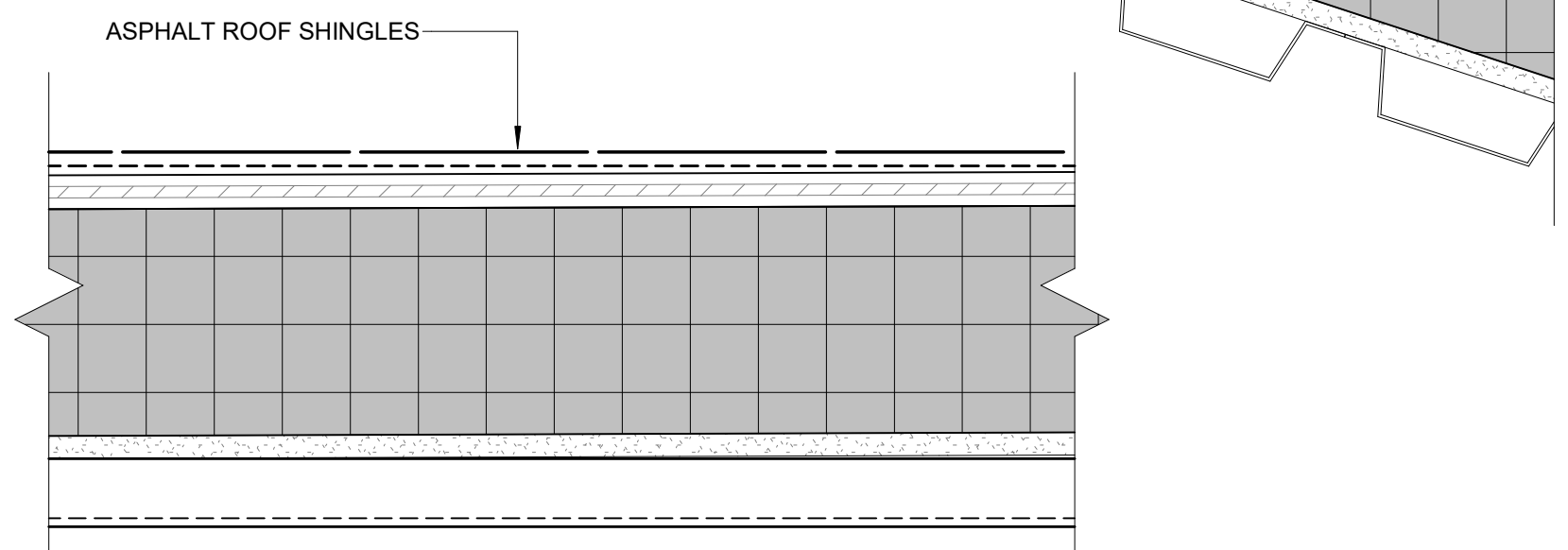
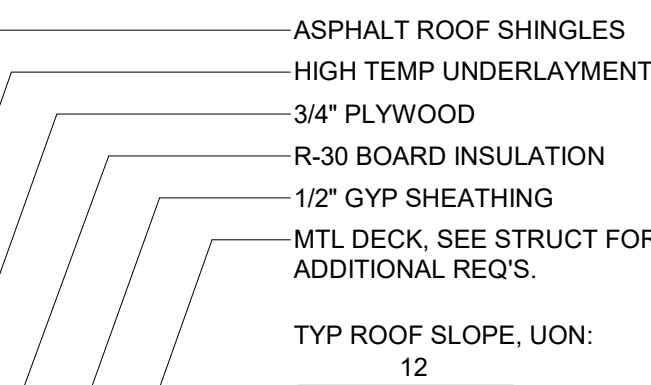
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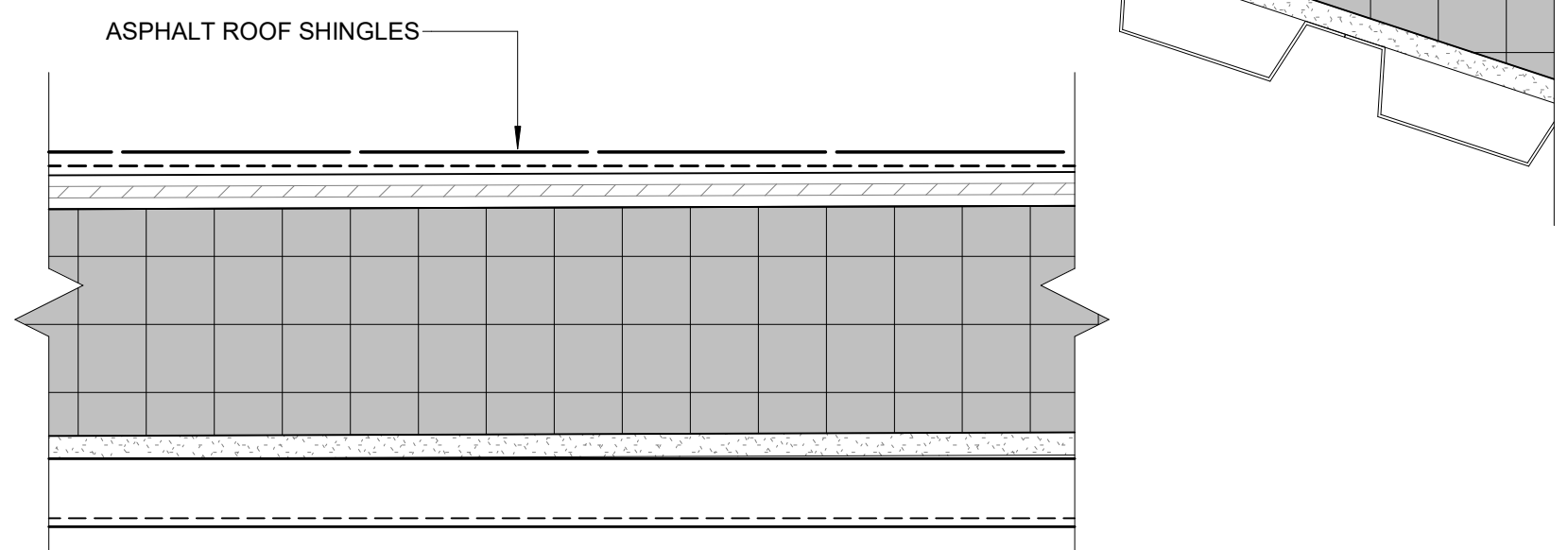
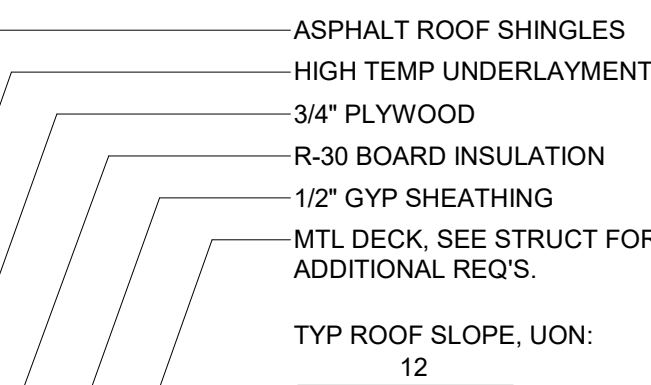
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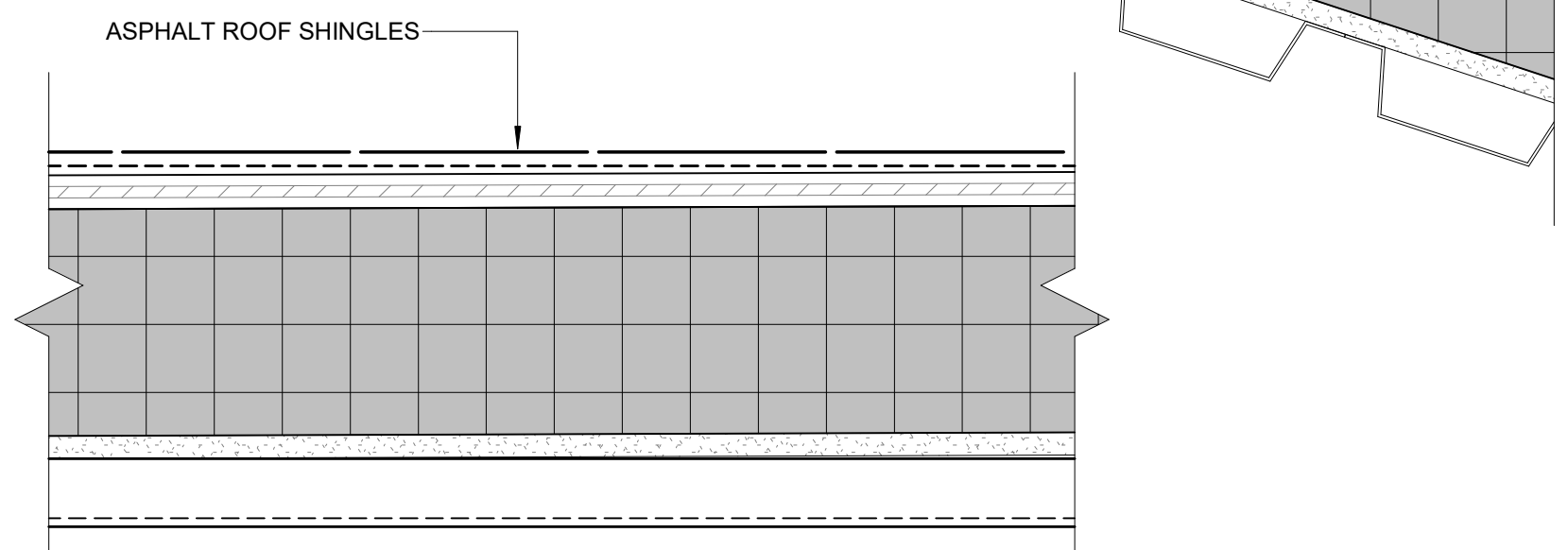
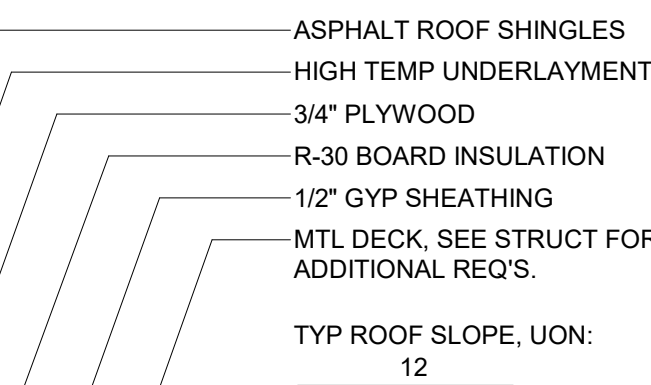
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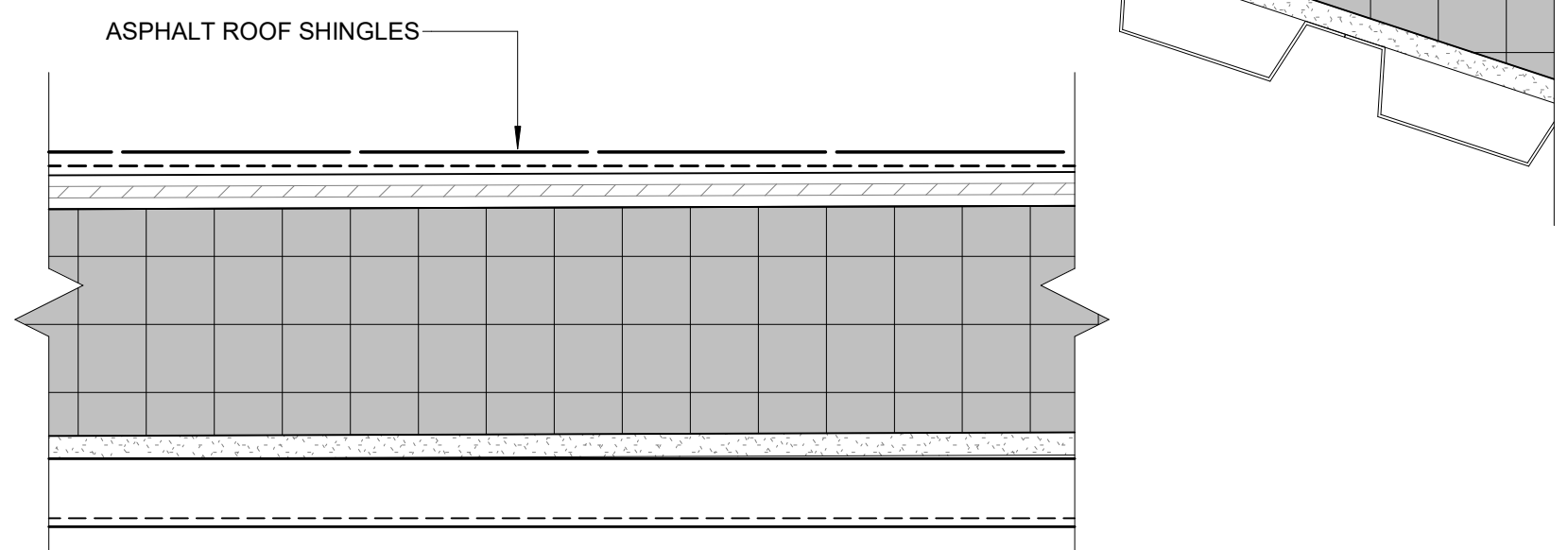
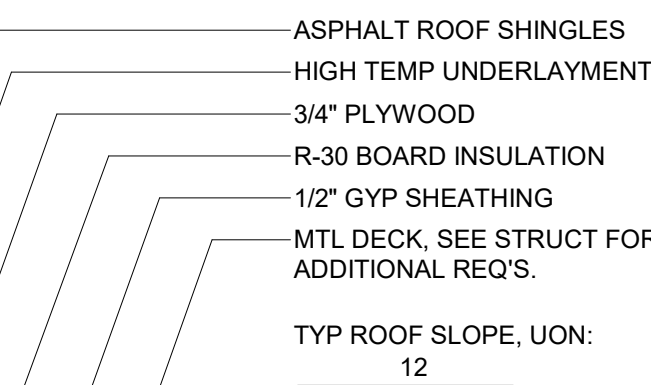
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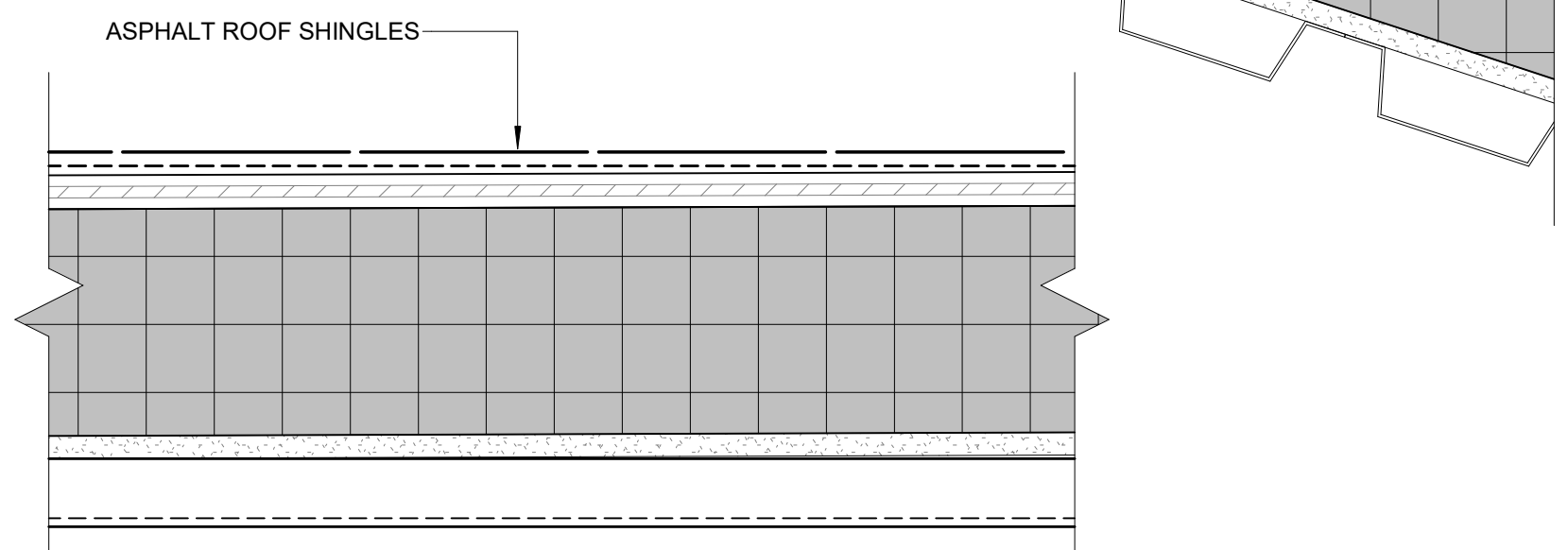
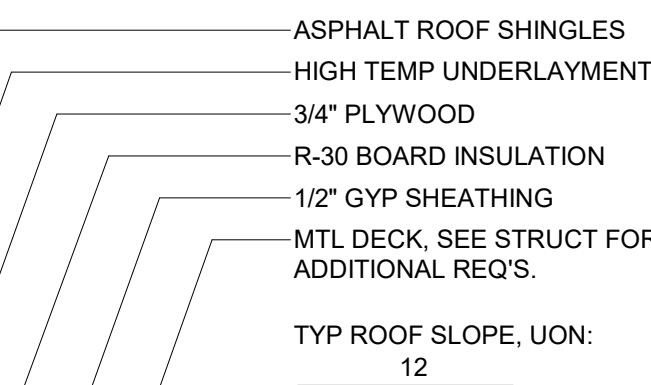
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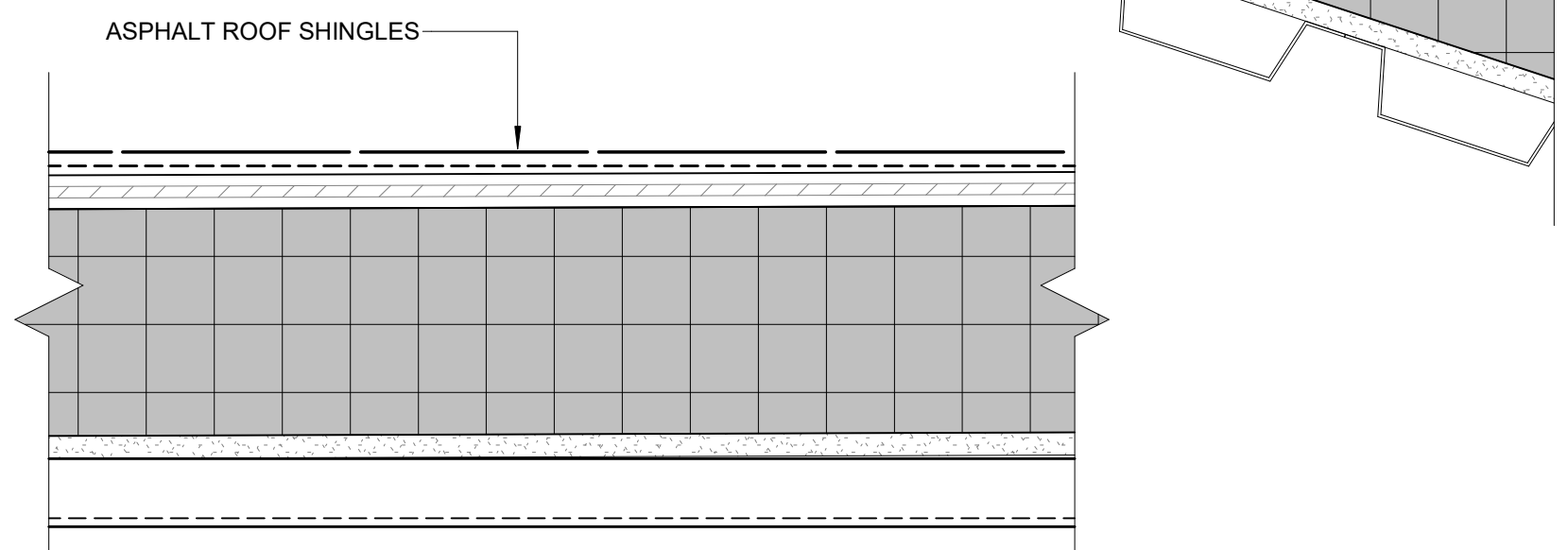
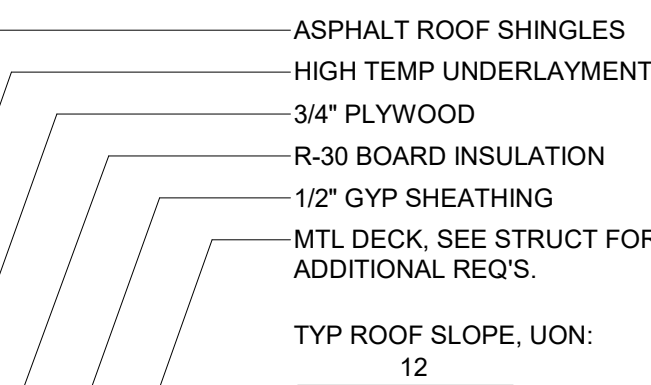
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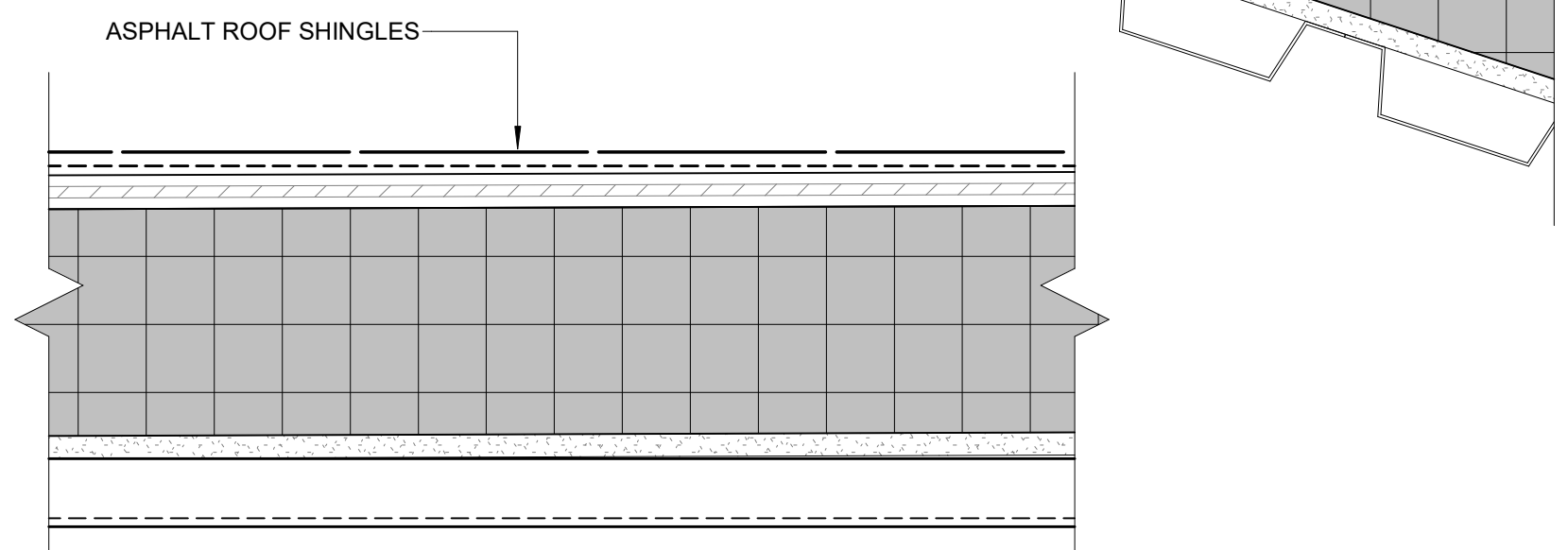
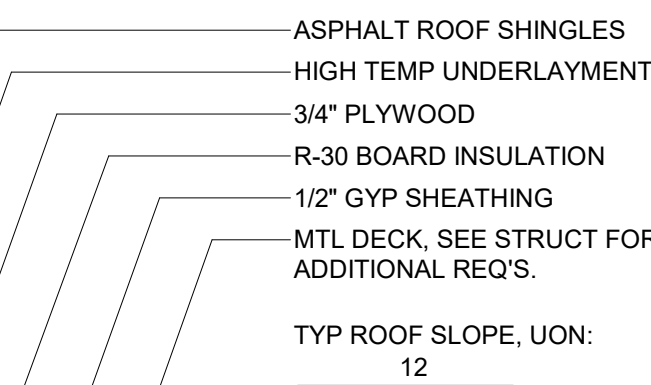
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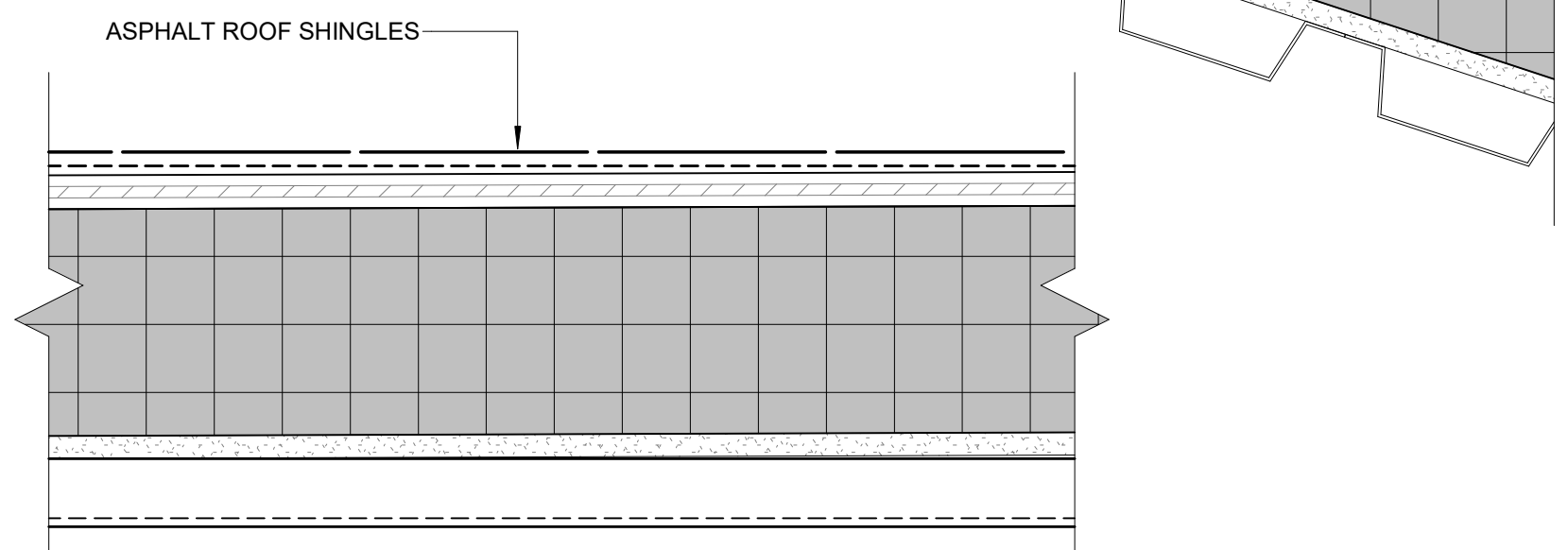
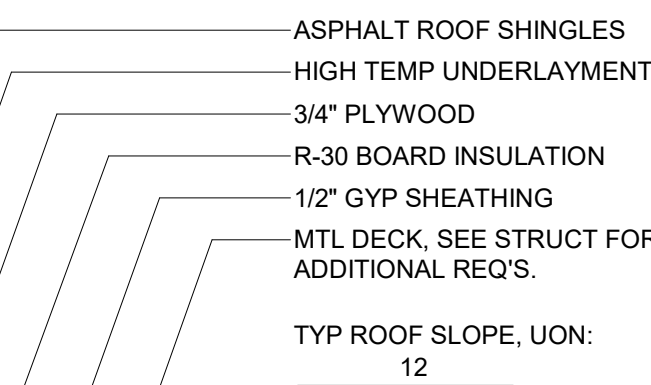
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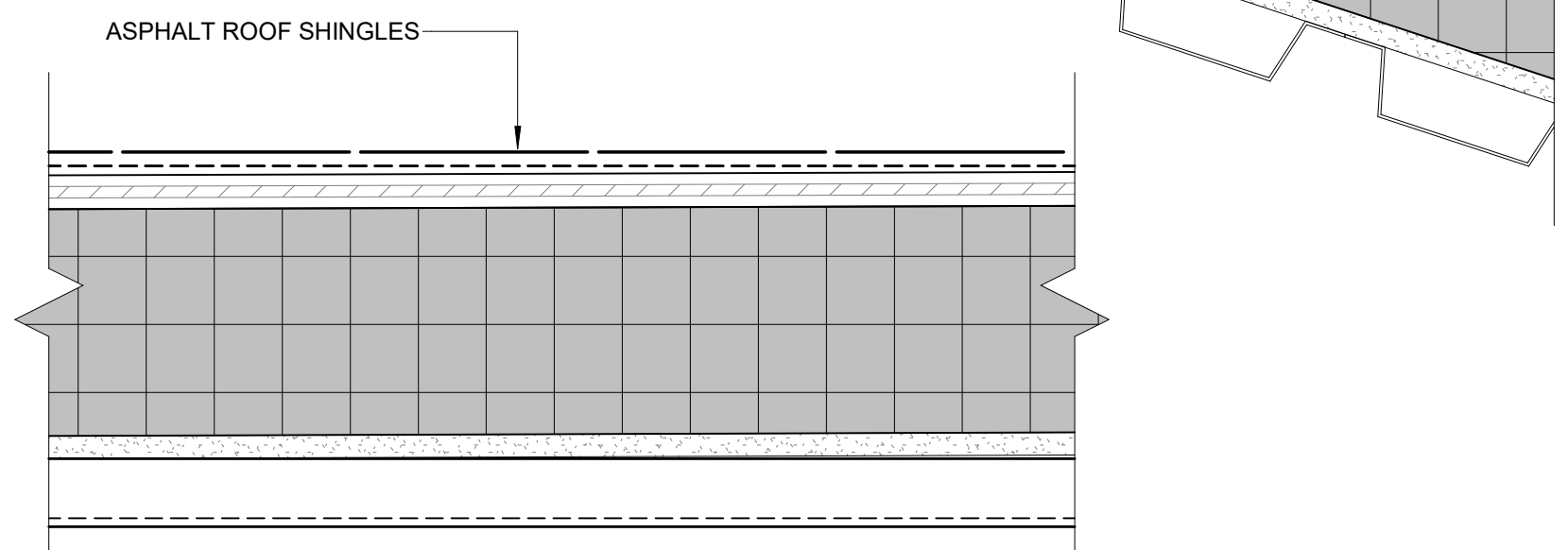
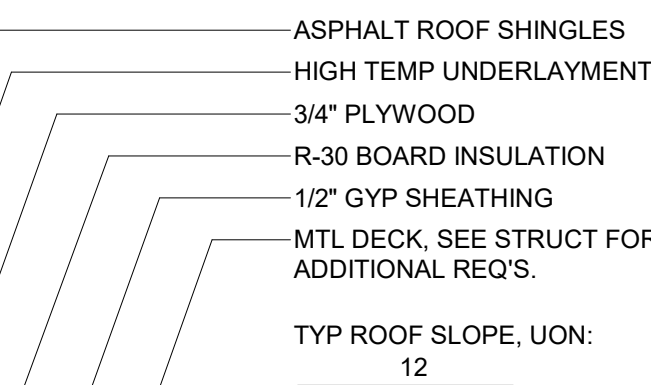
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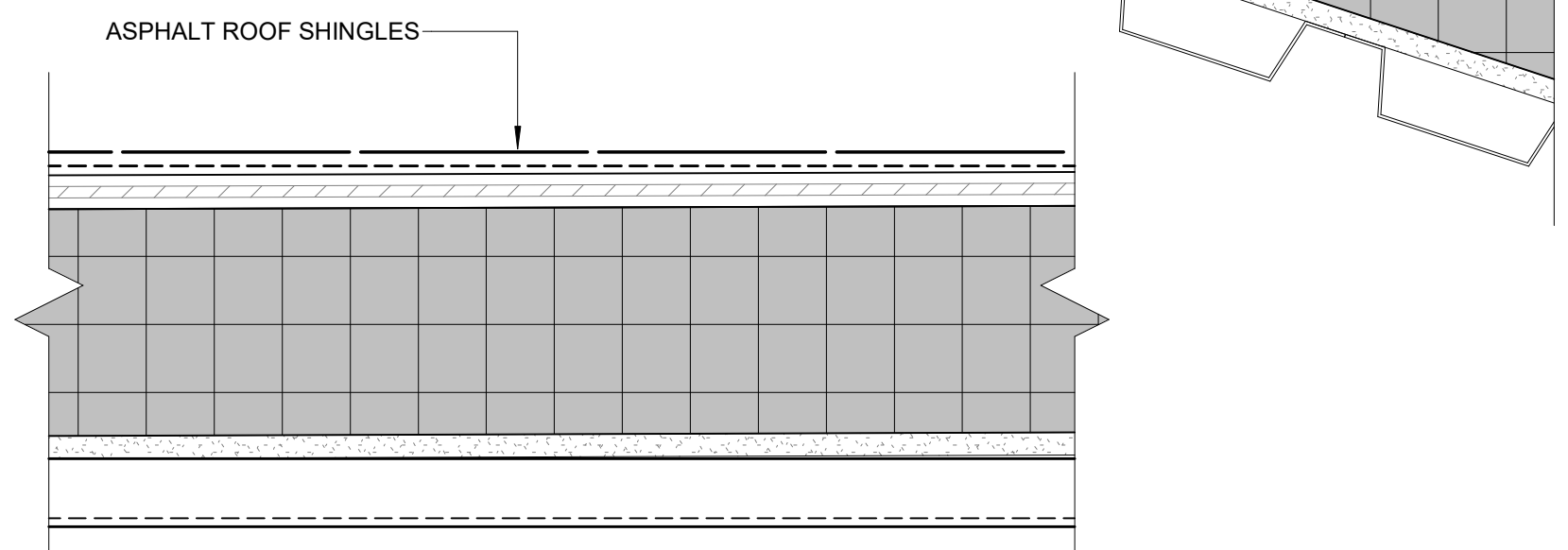
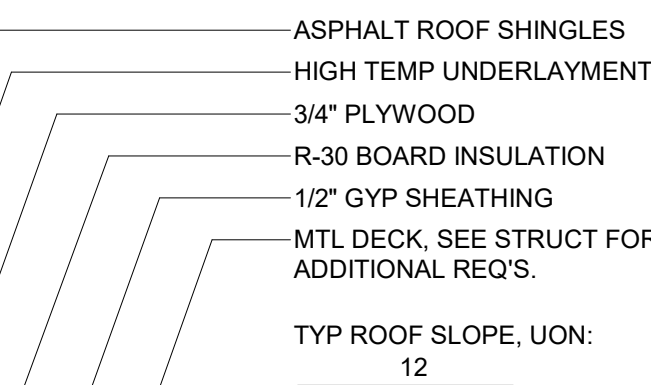
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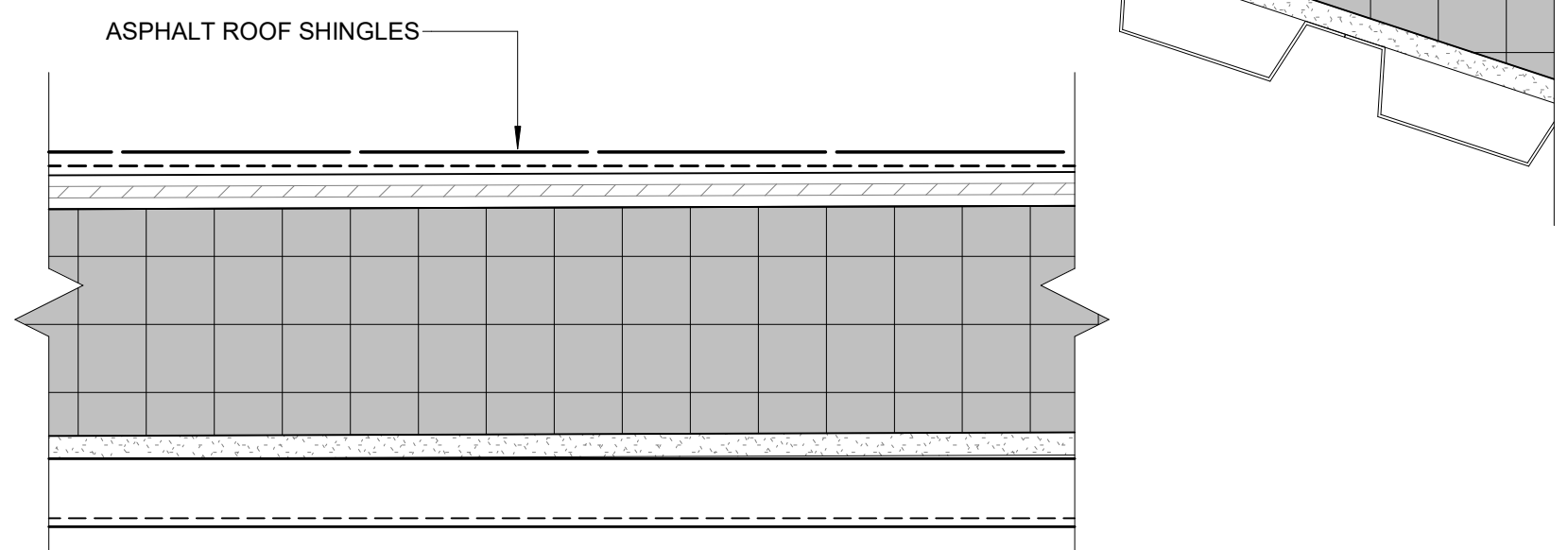
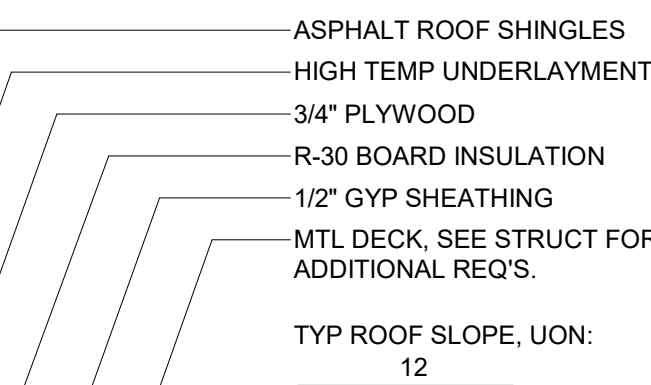
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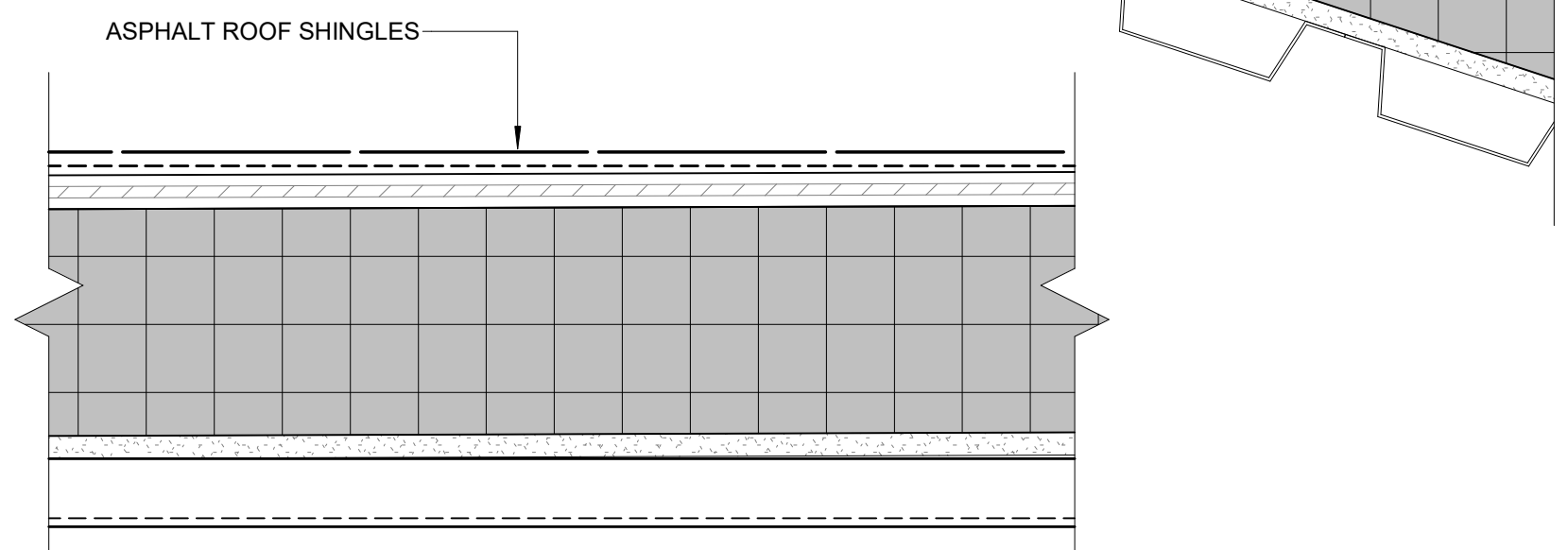
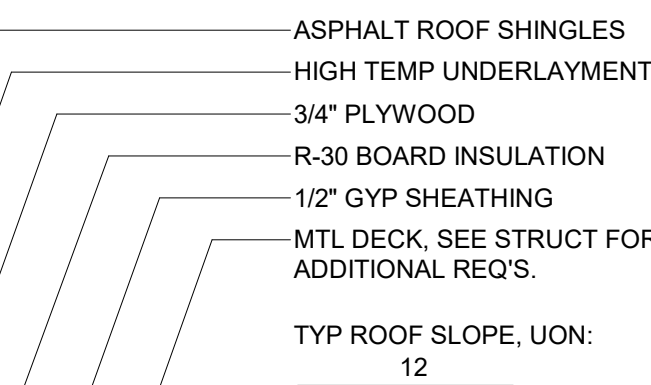
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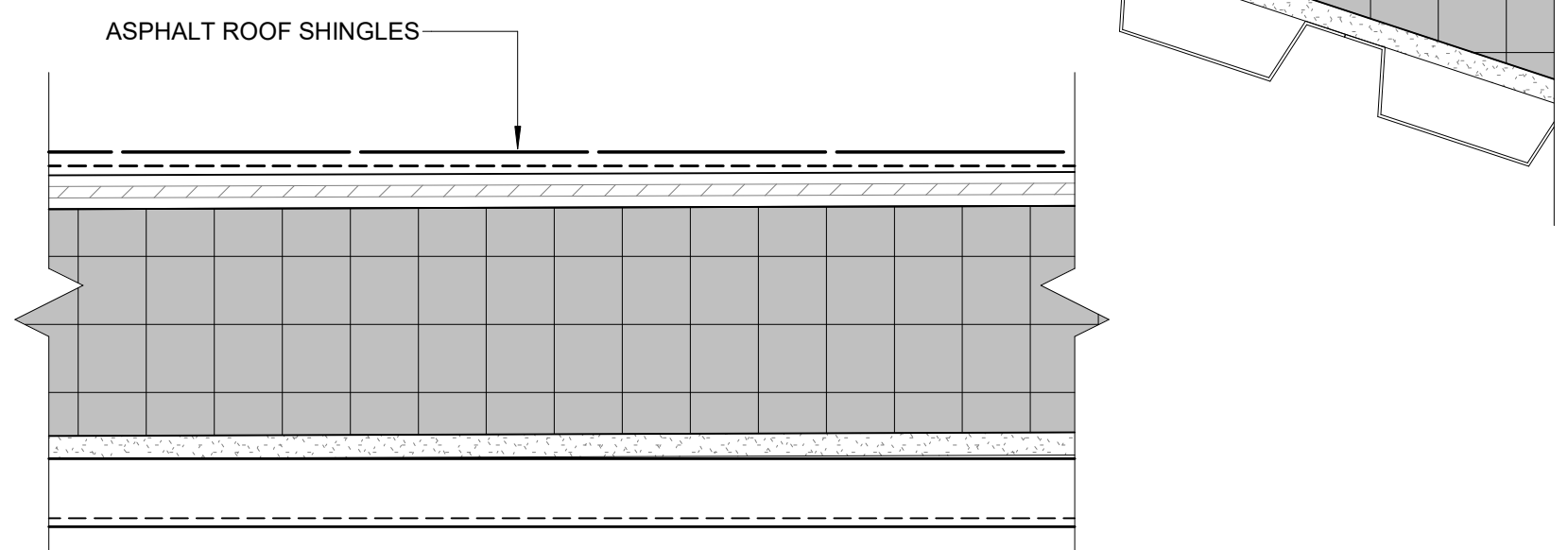
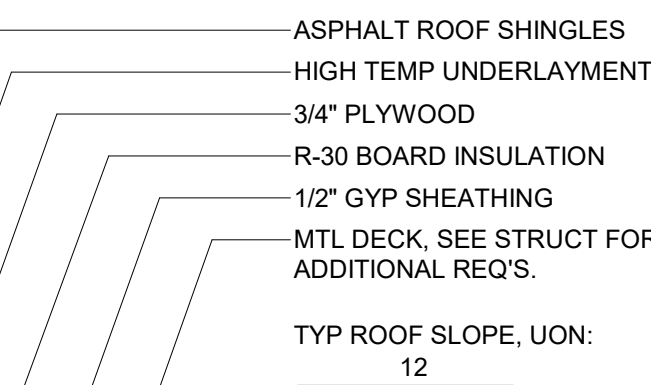
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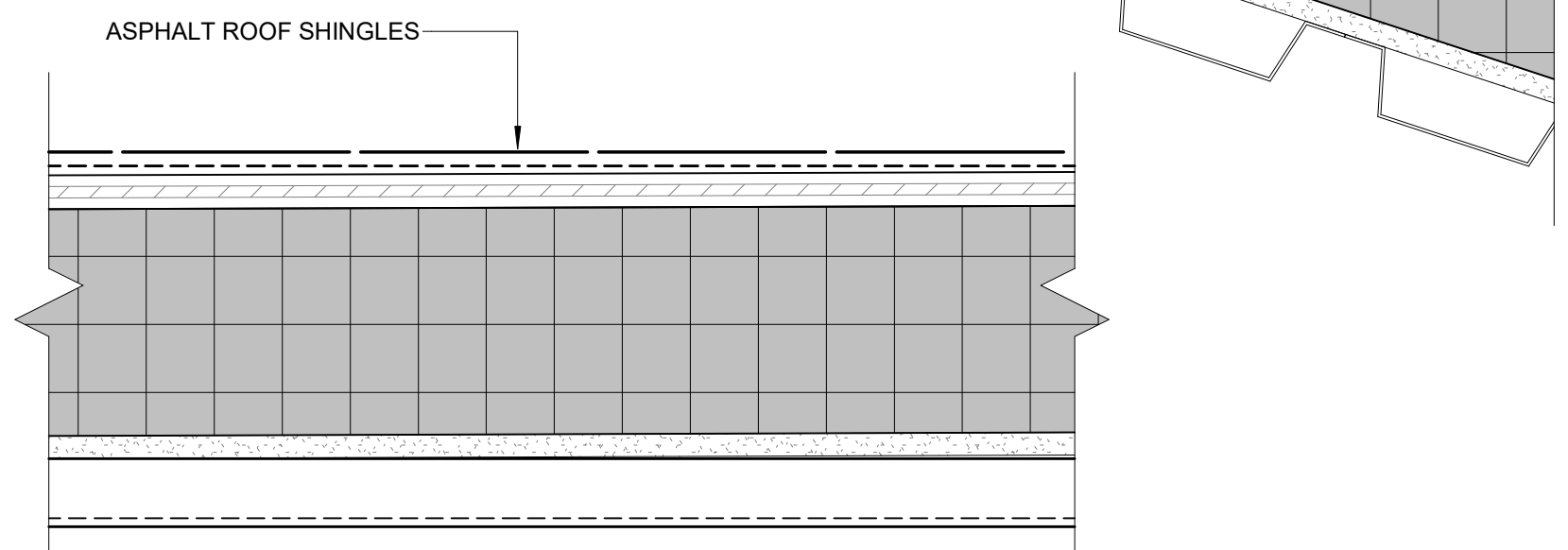
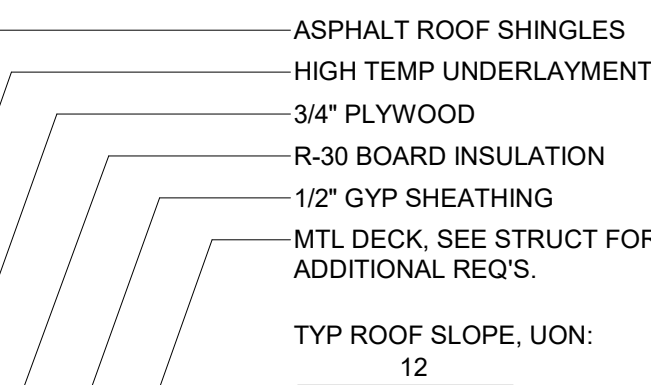
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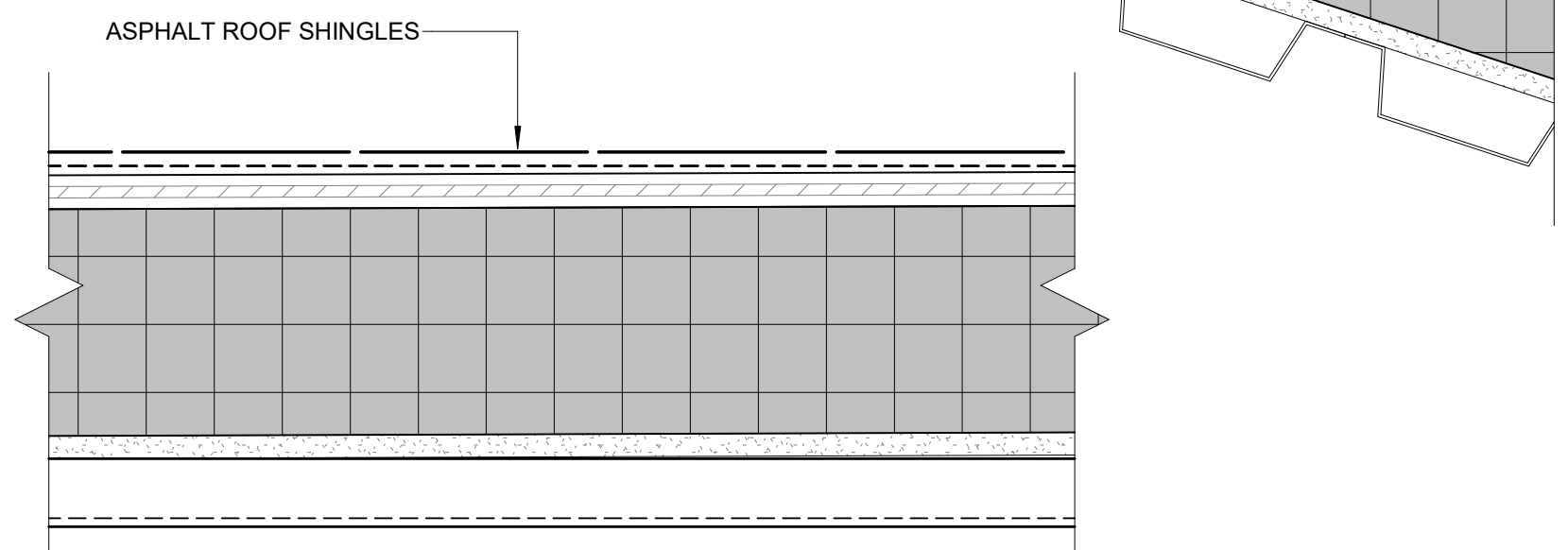
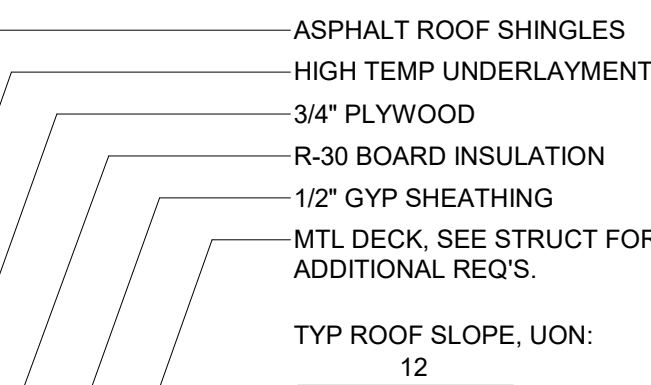
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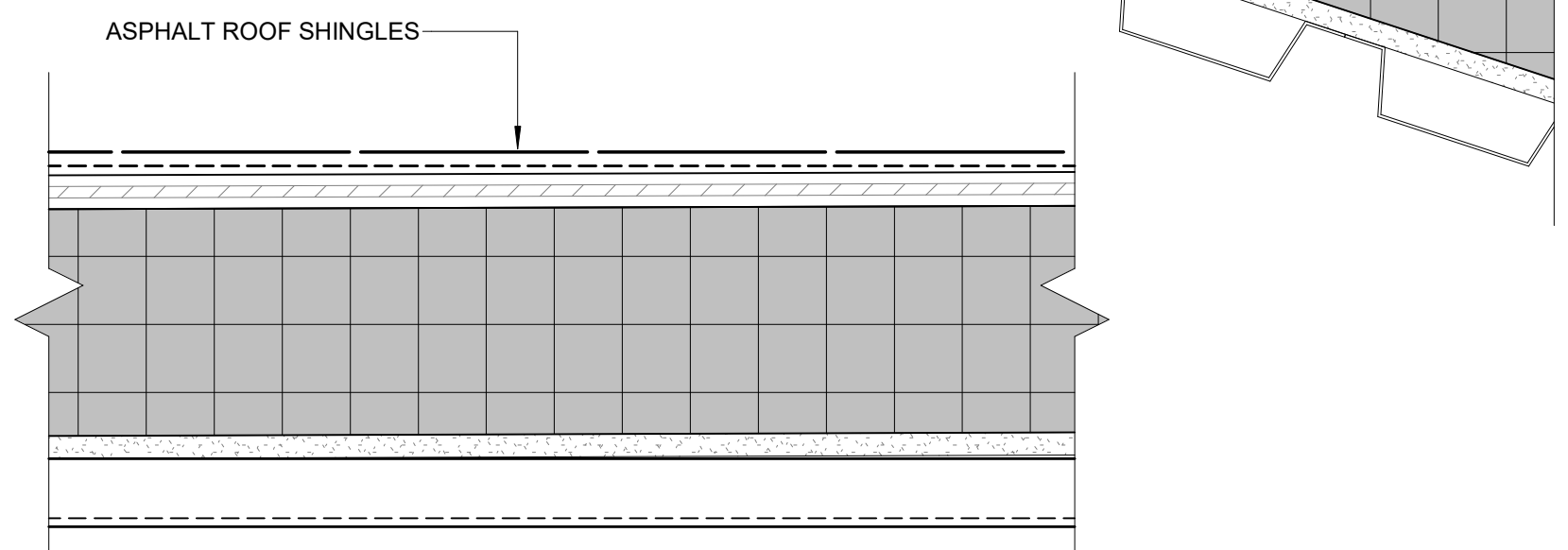
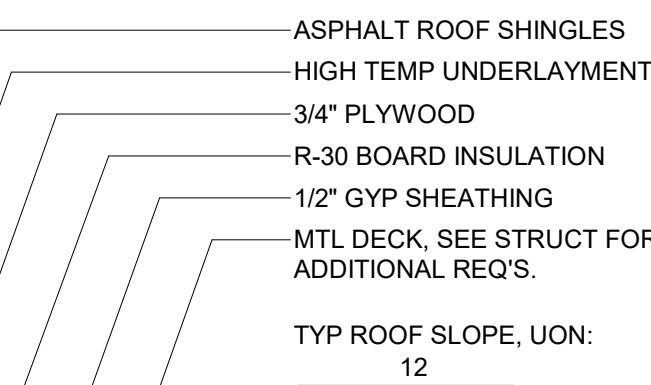
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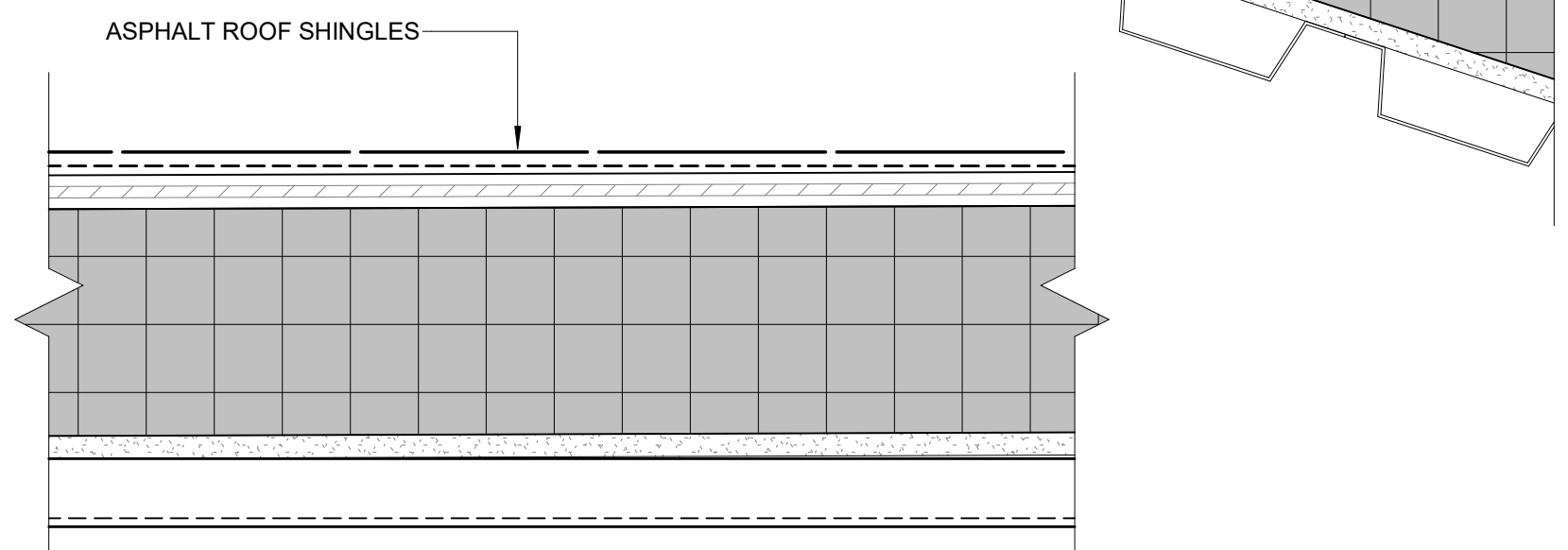
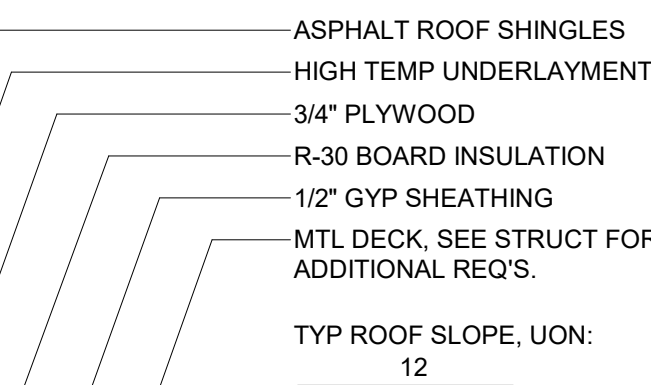
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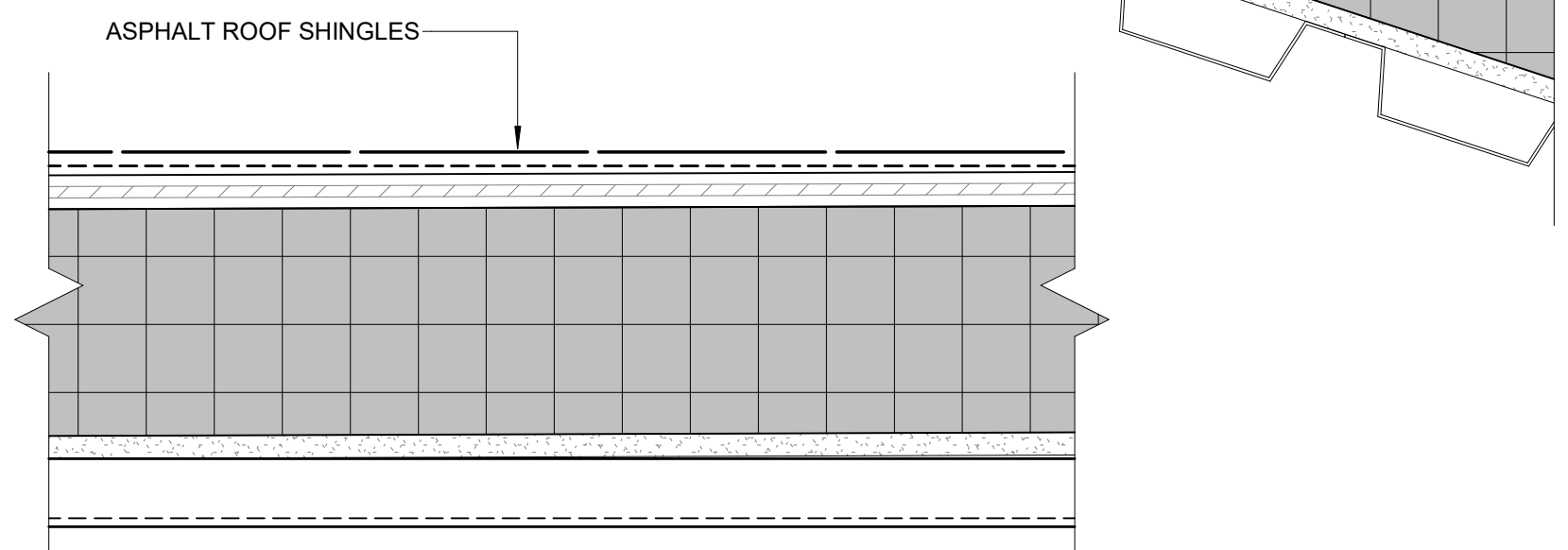
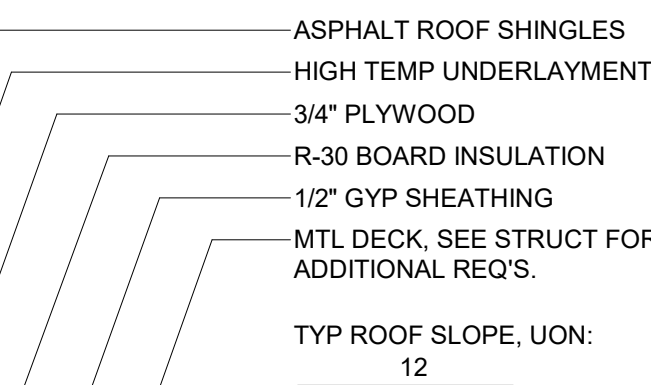
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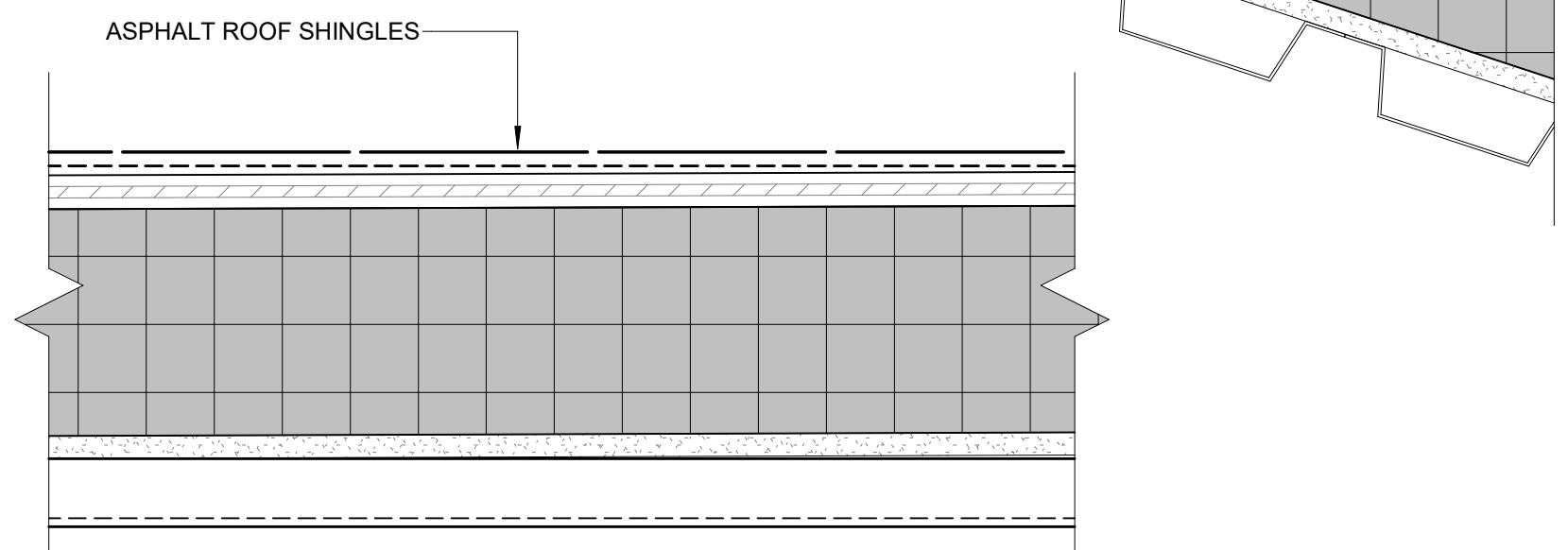
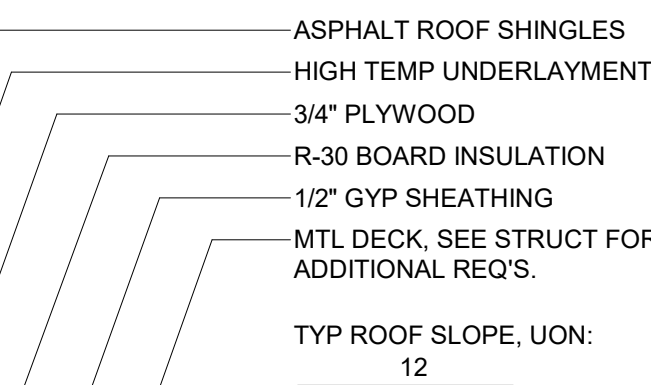
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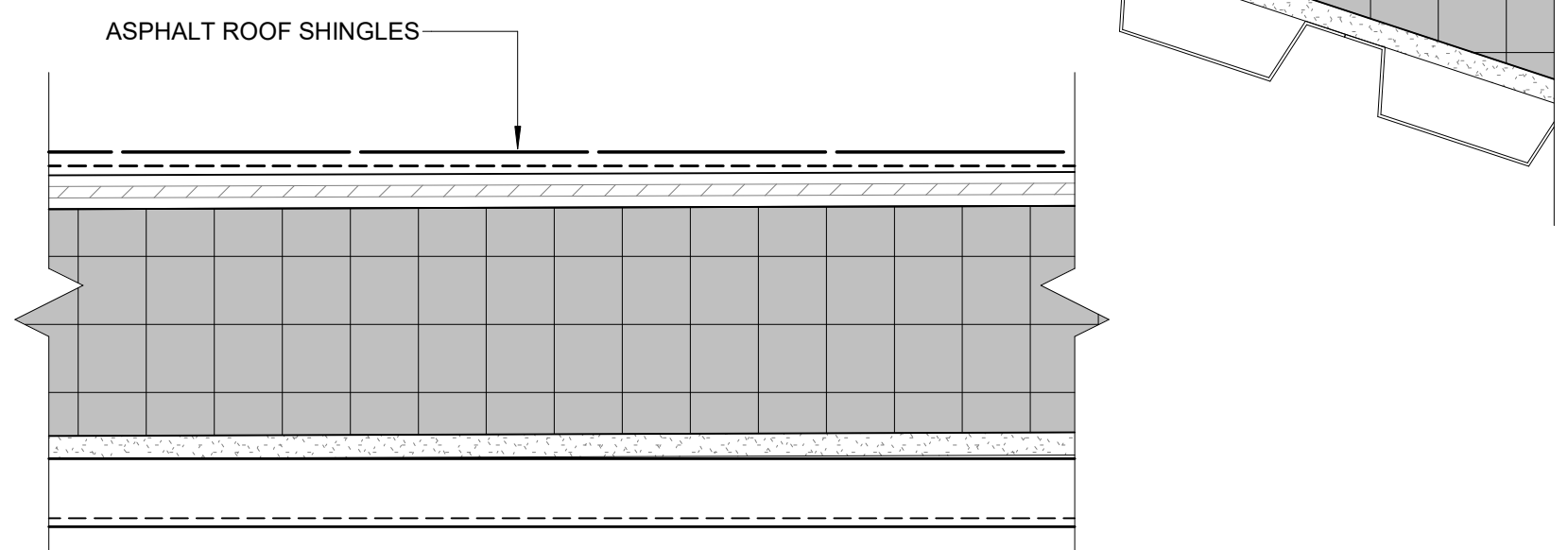
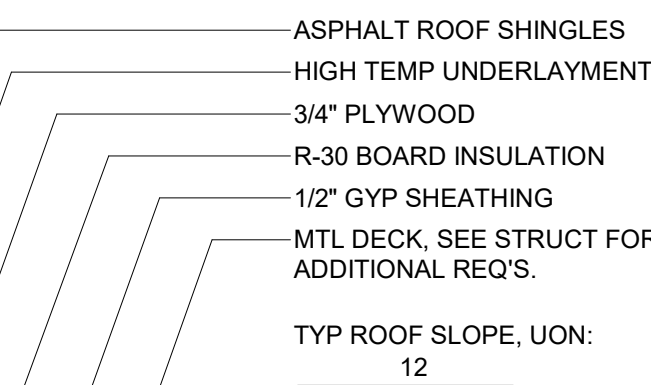
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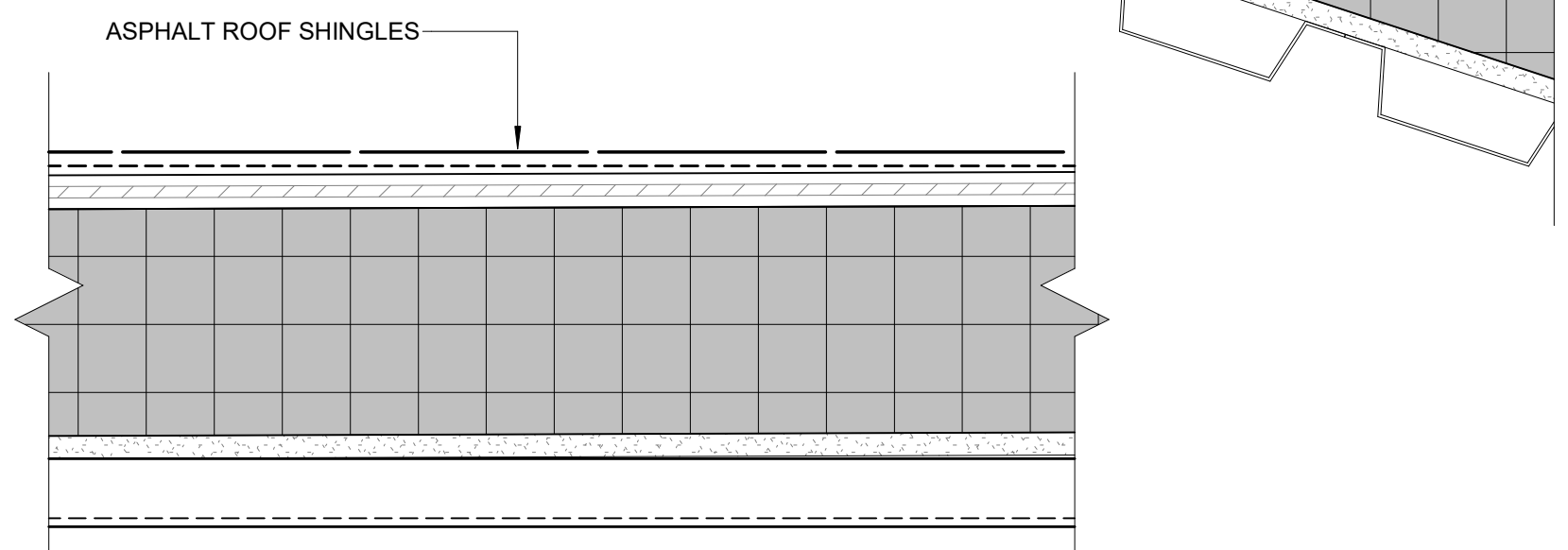
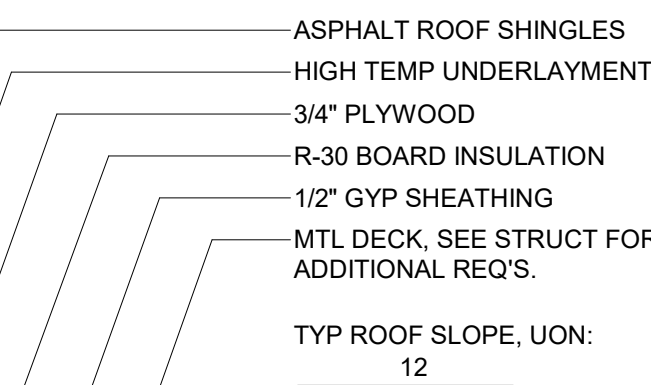
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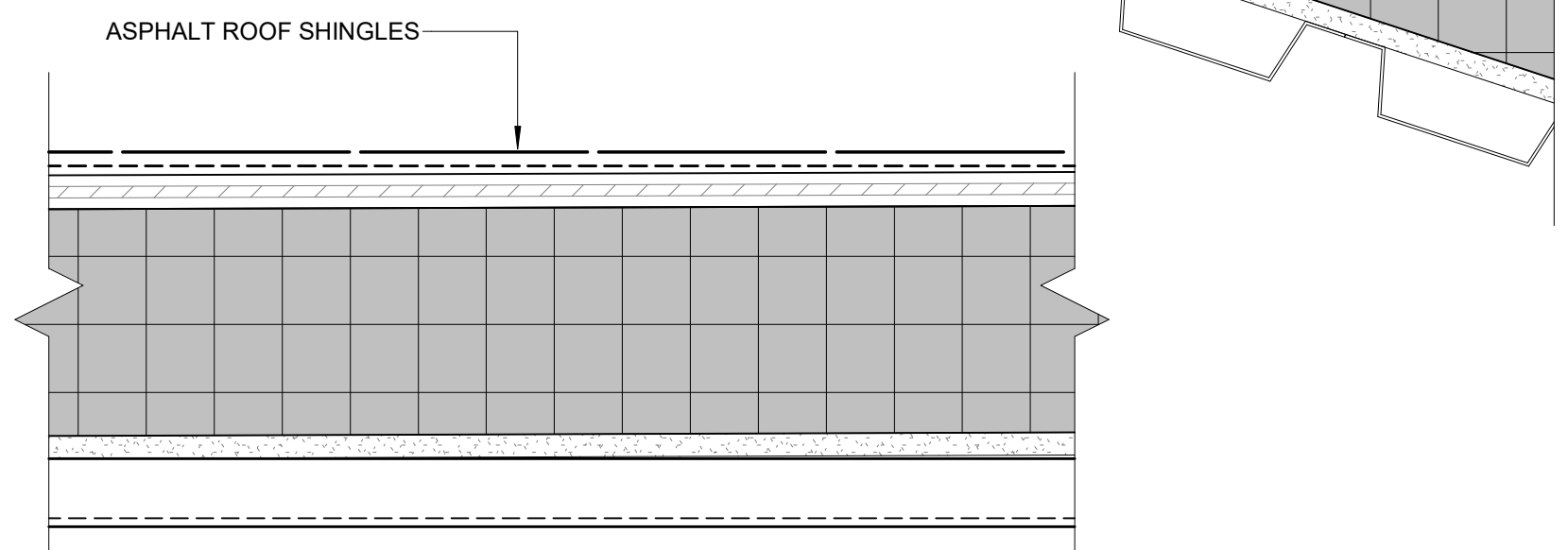
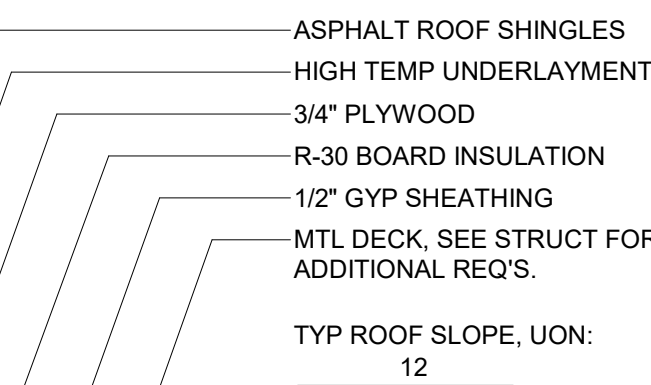
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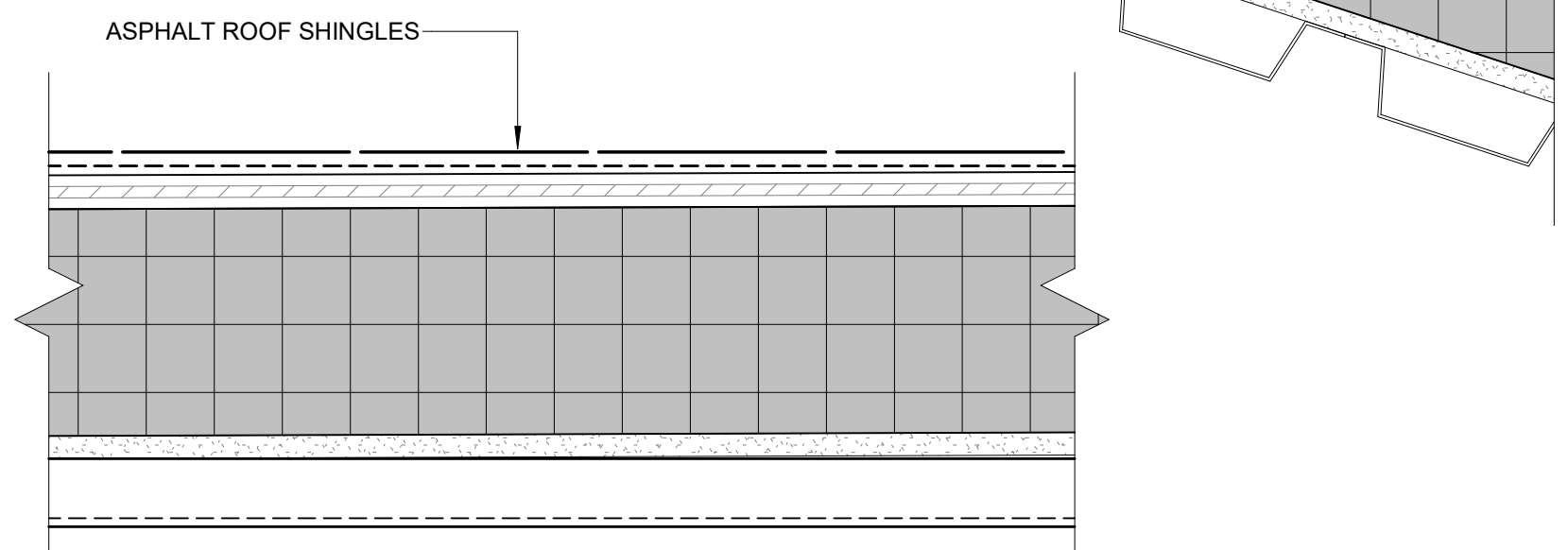
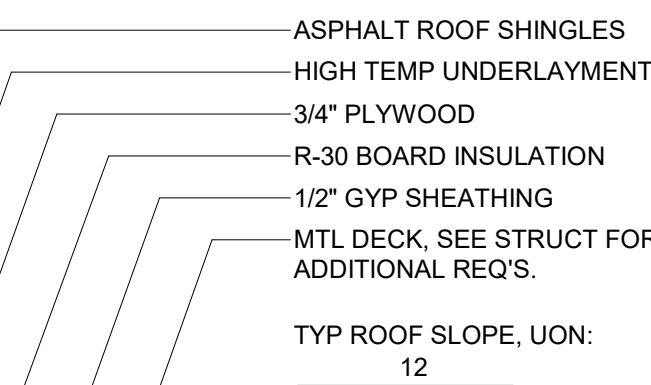
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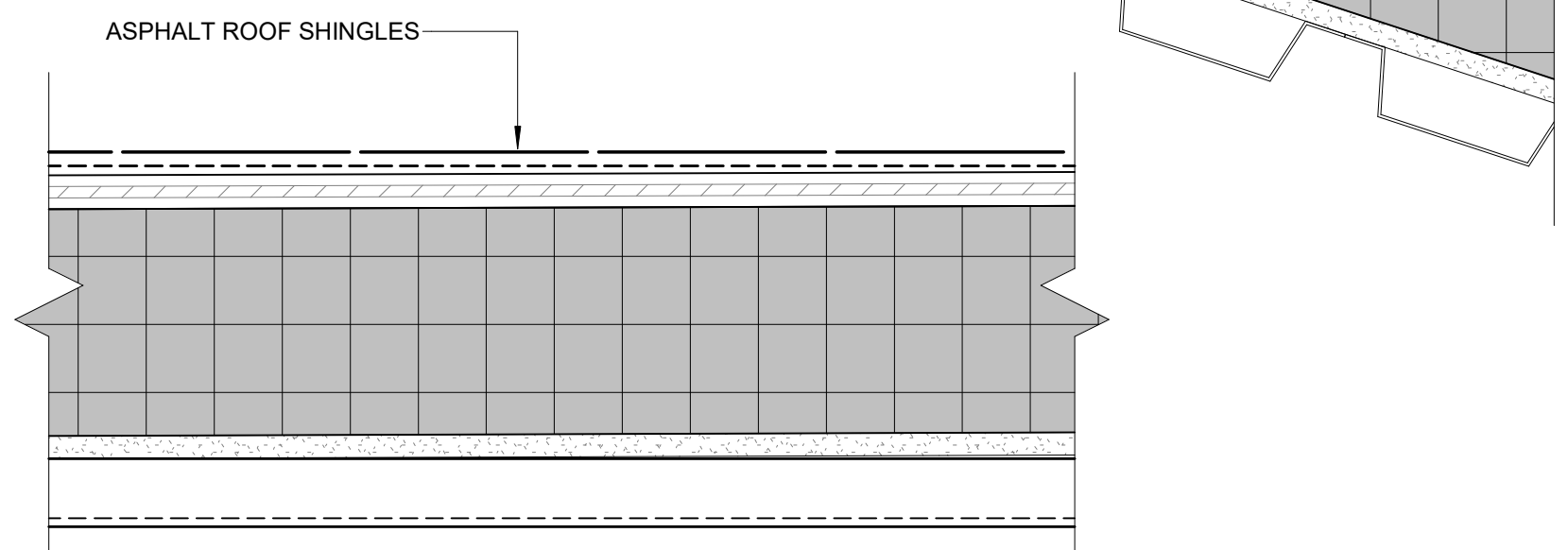
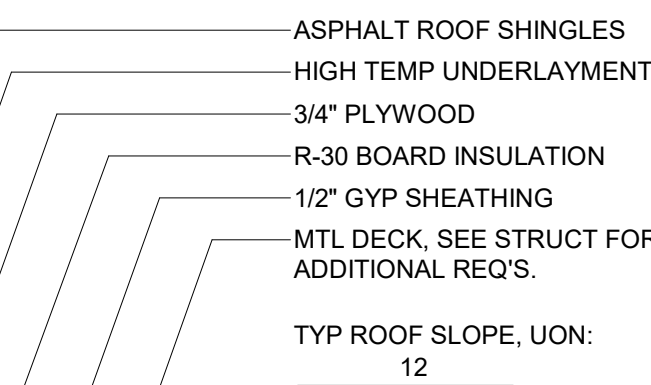
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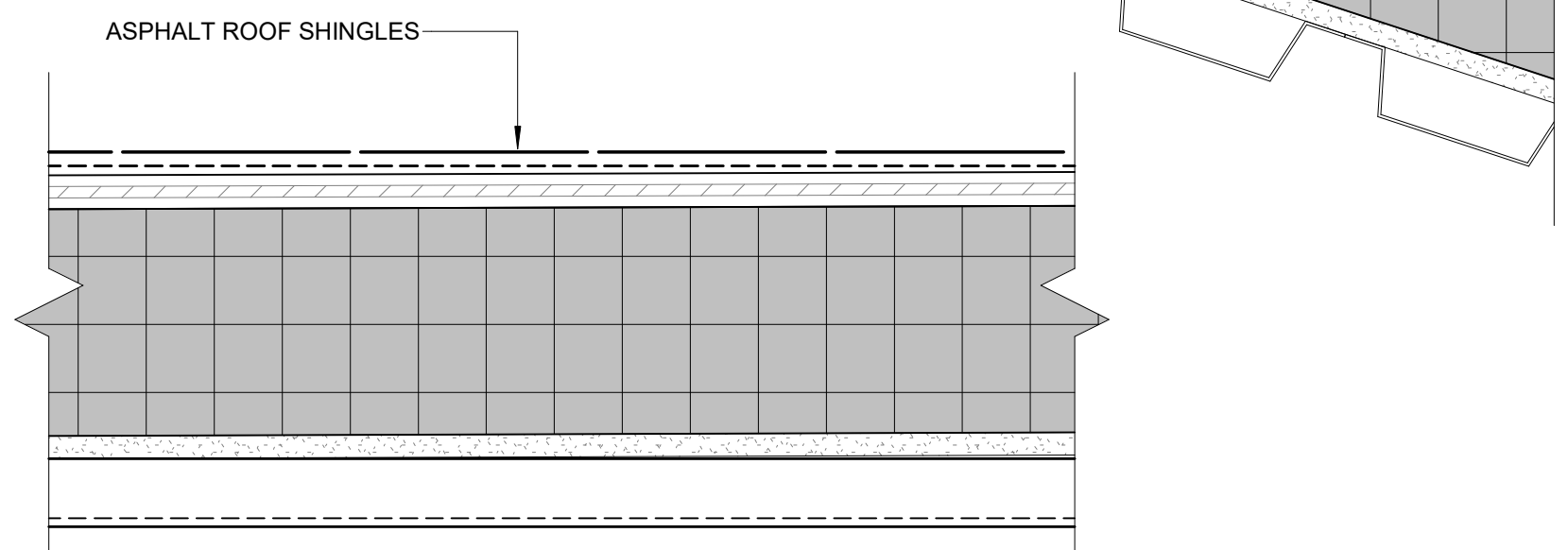
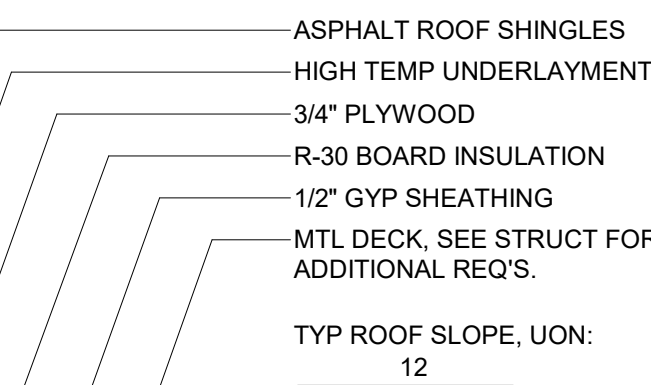
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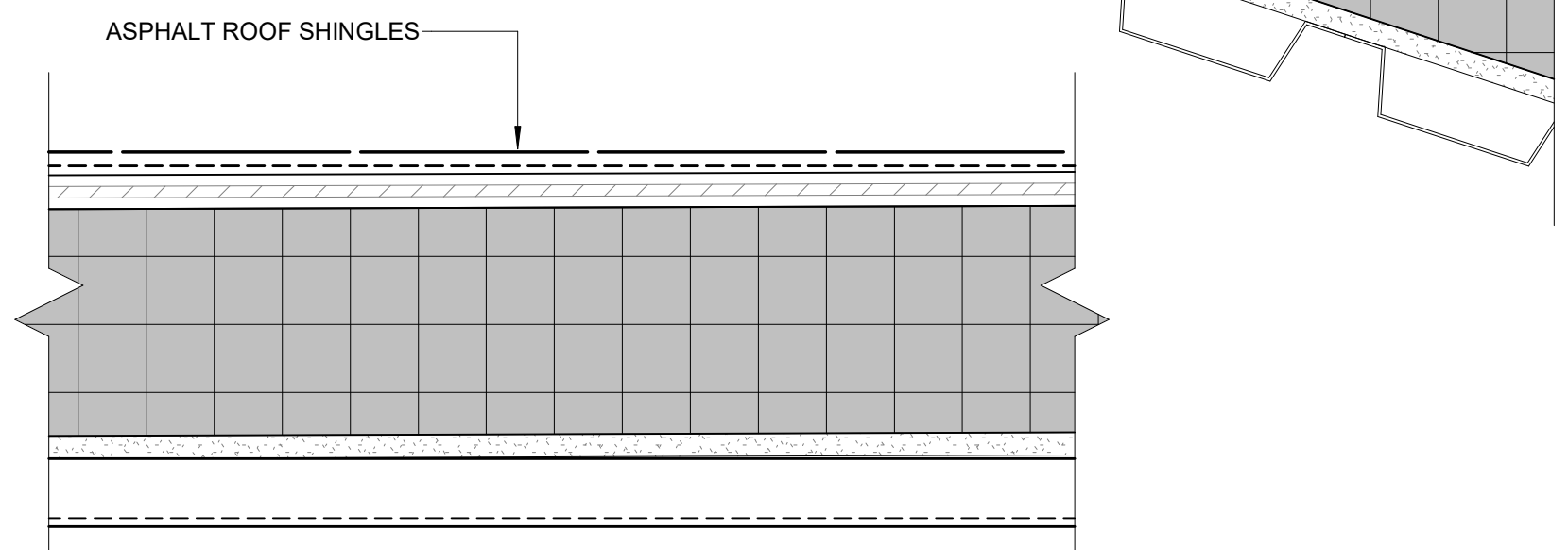
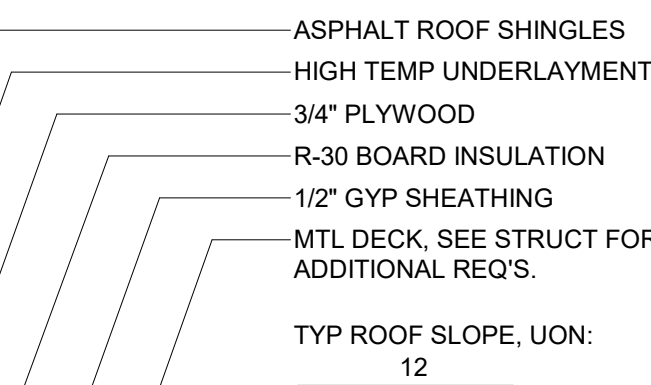
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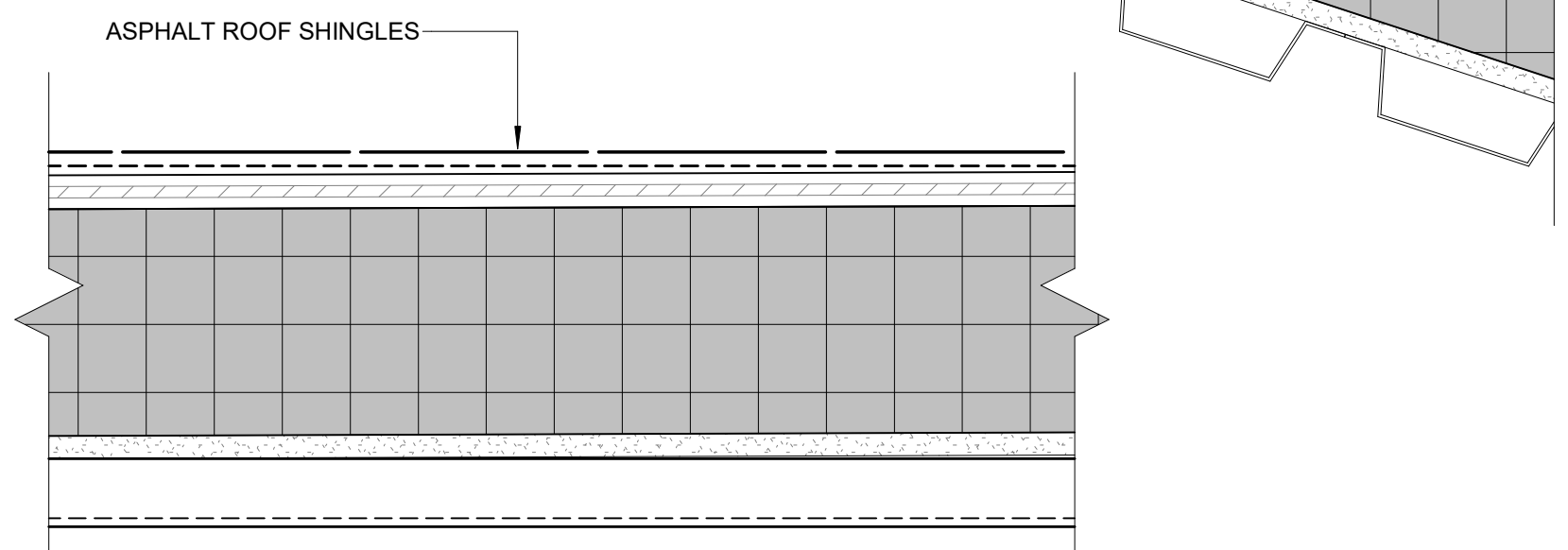
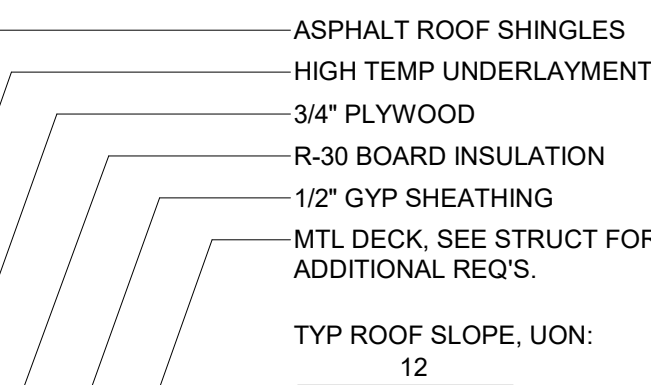
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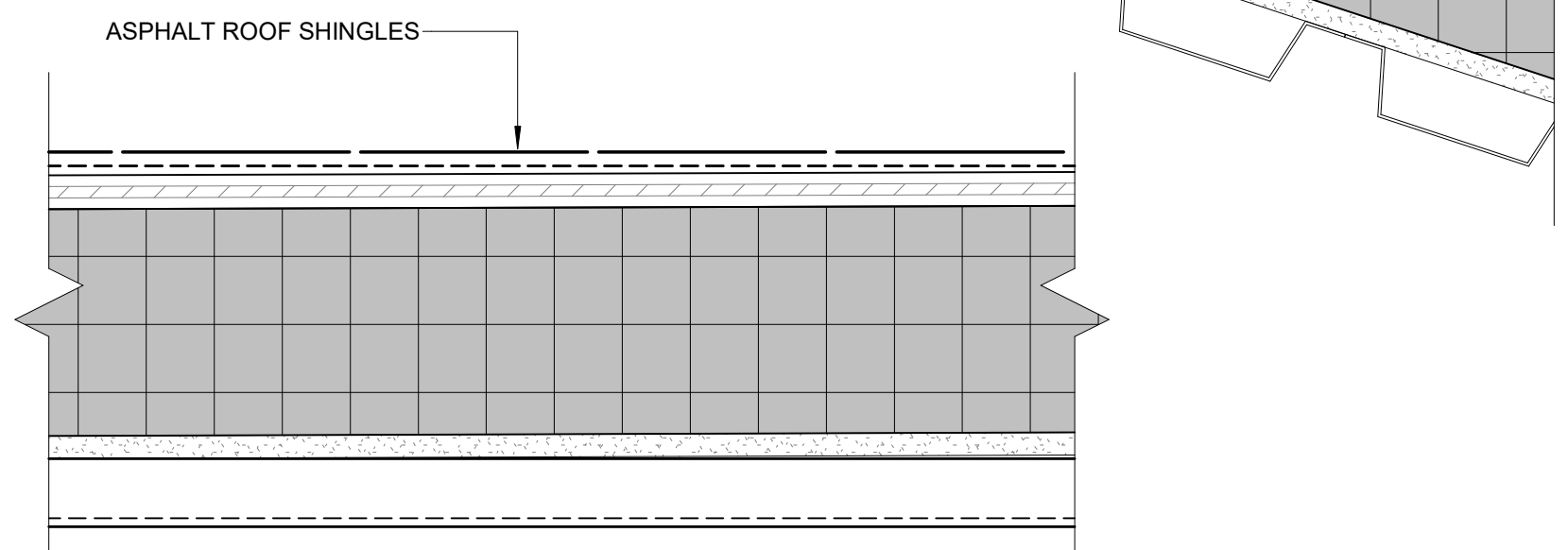
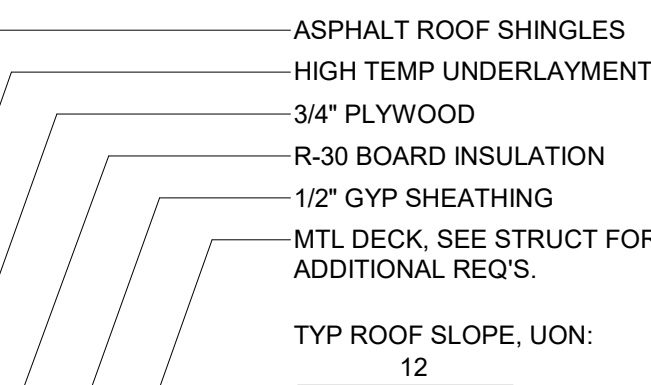
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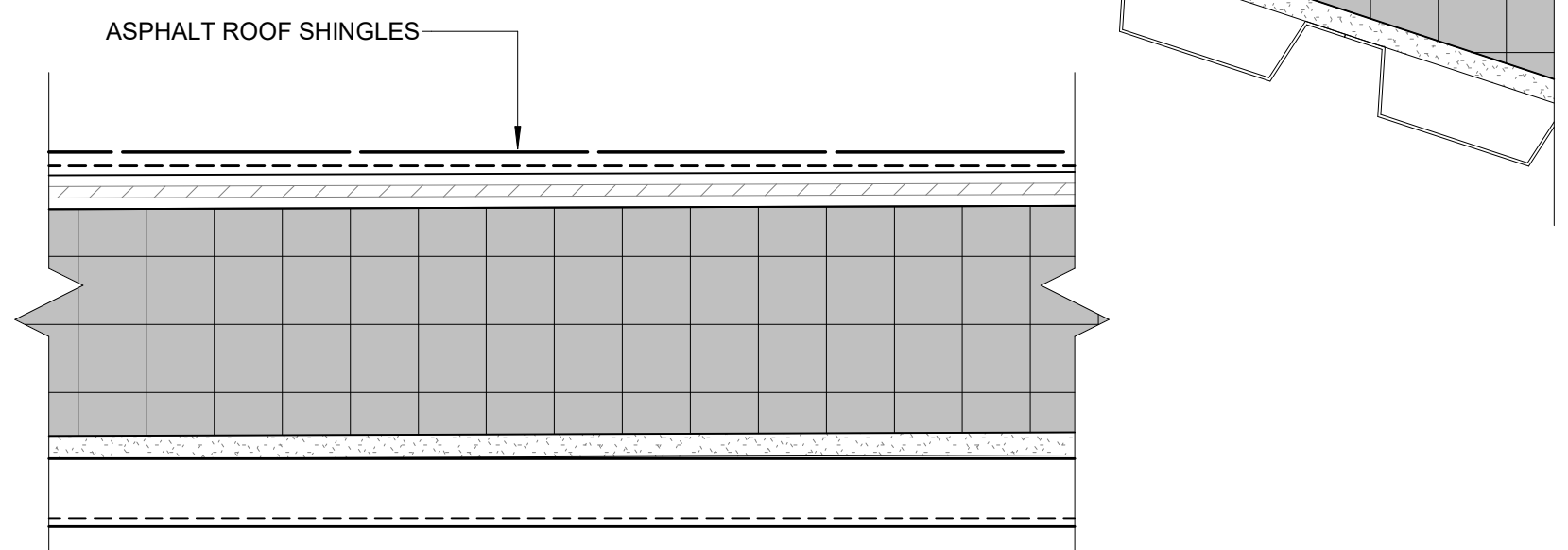
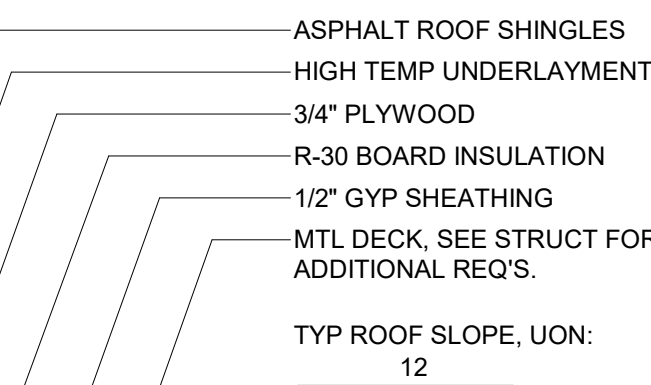
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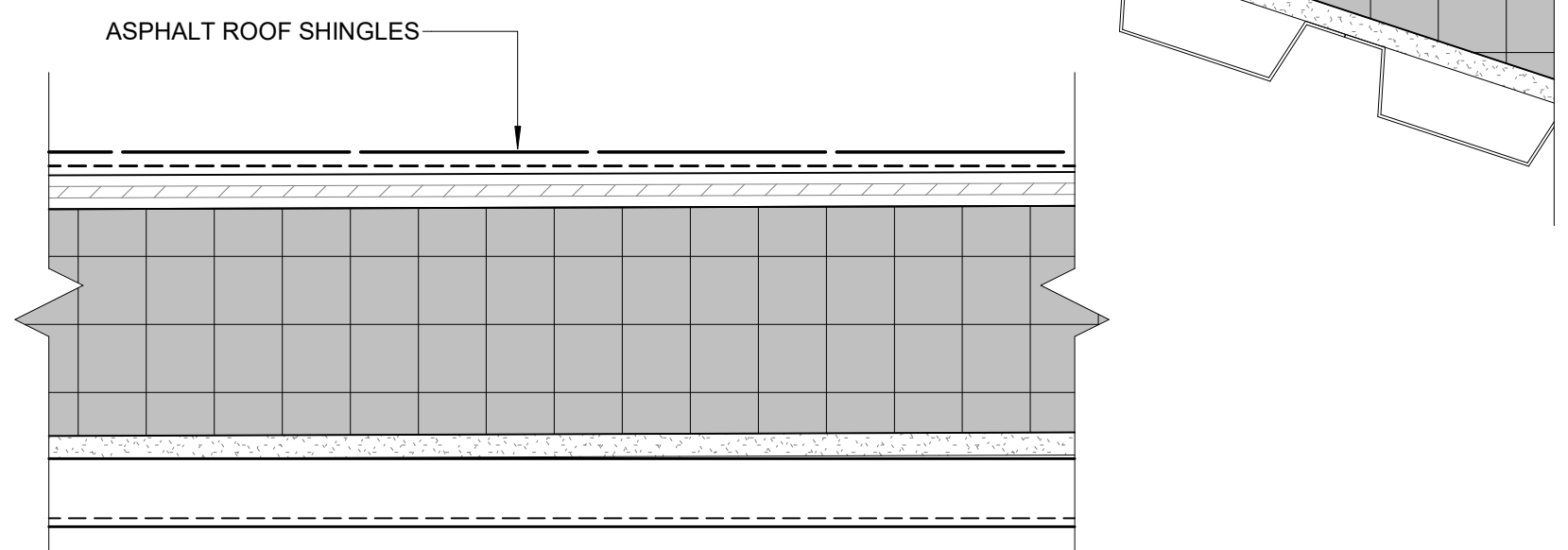
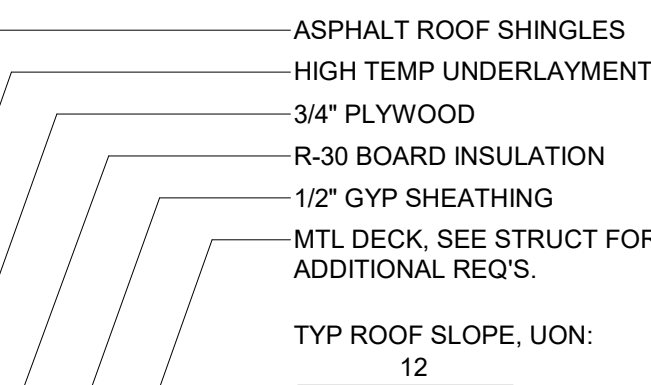
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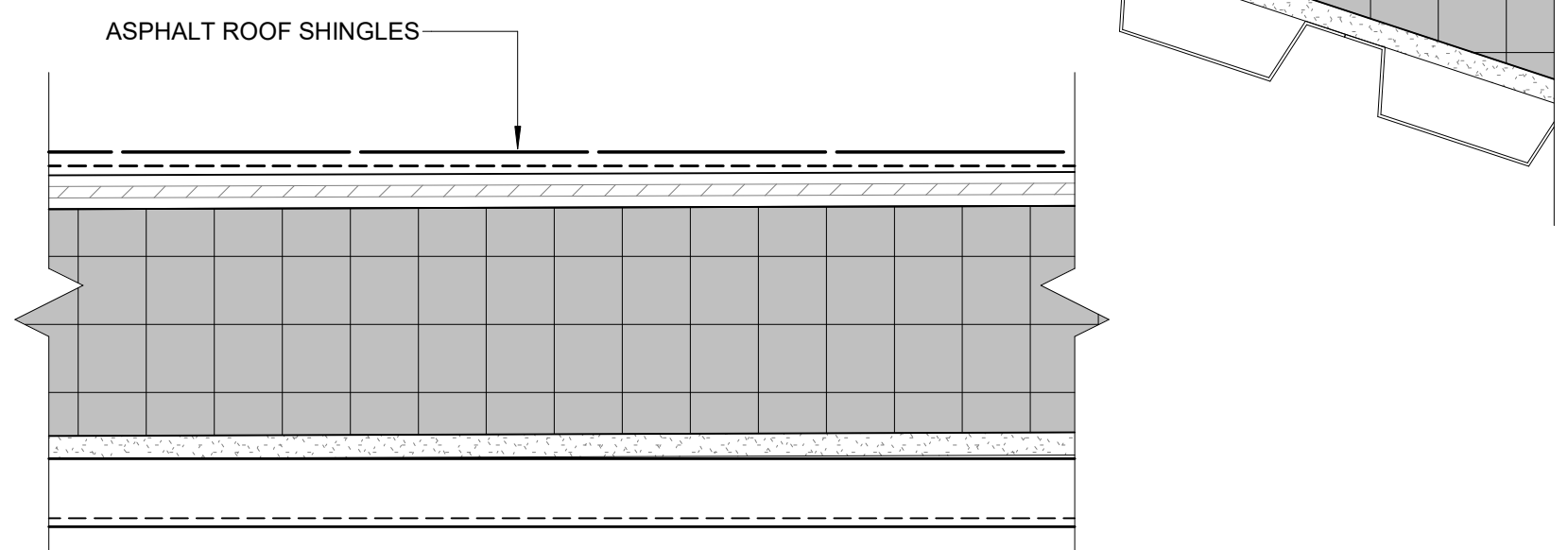
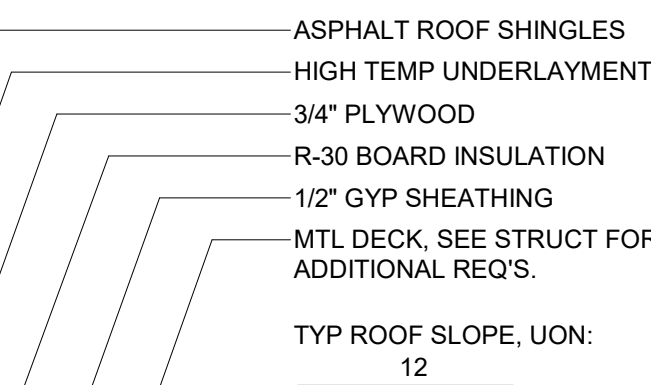
**A4** TYP ROOF ASSEMBLY  
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**A4** TYP ROOF ASSEMBLY  
3" = 1'-0"



**A4** TYP ROOF ASSEMBLY  
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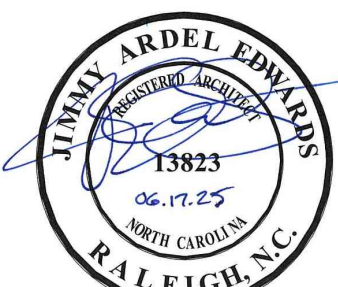




PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER  
2015

REVISIONS

NO.	DESCRIPTION

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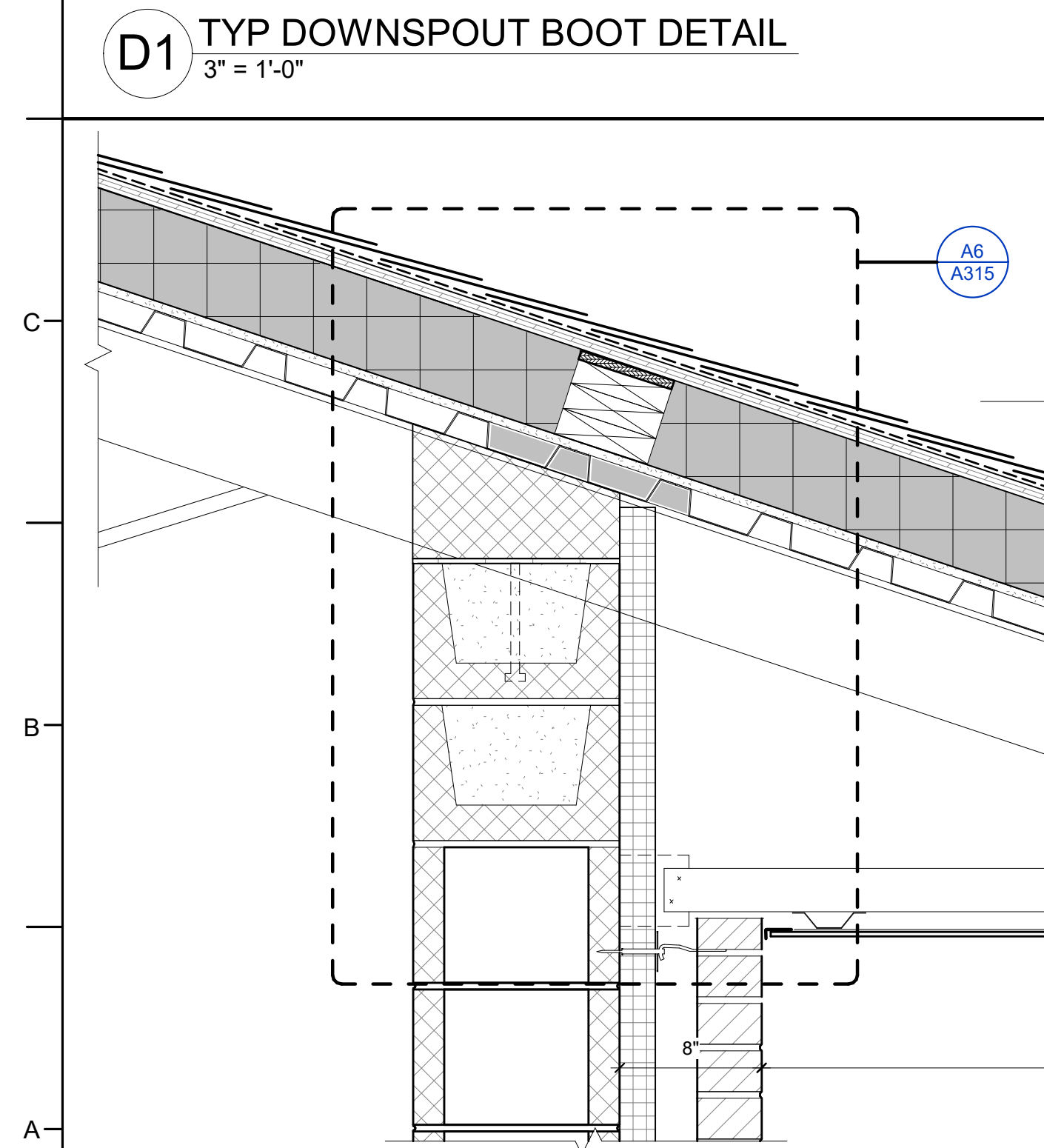
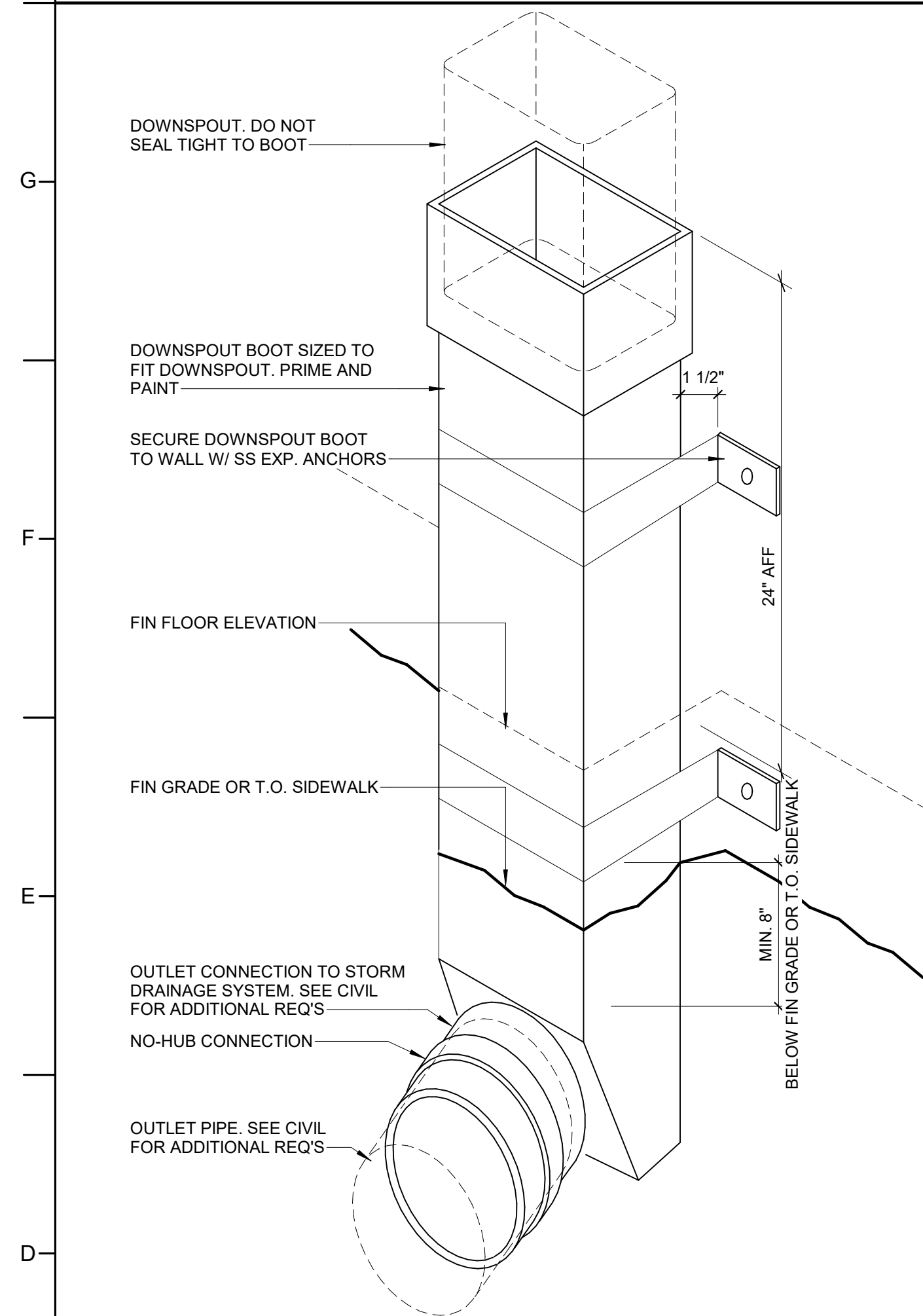
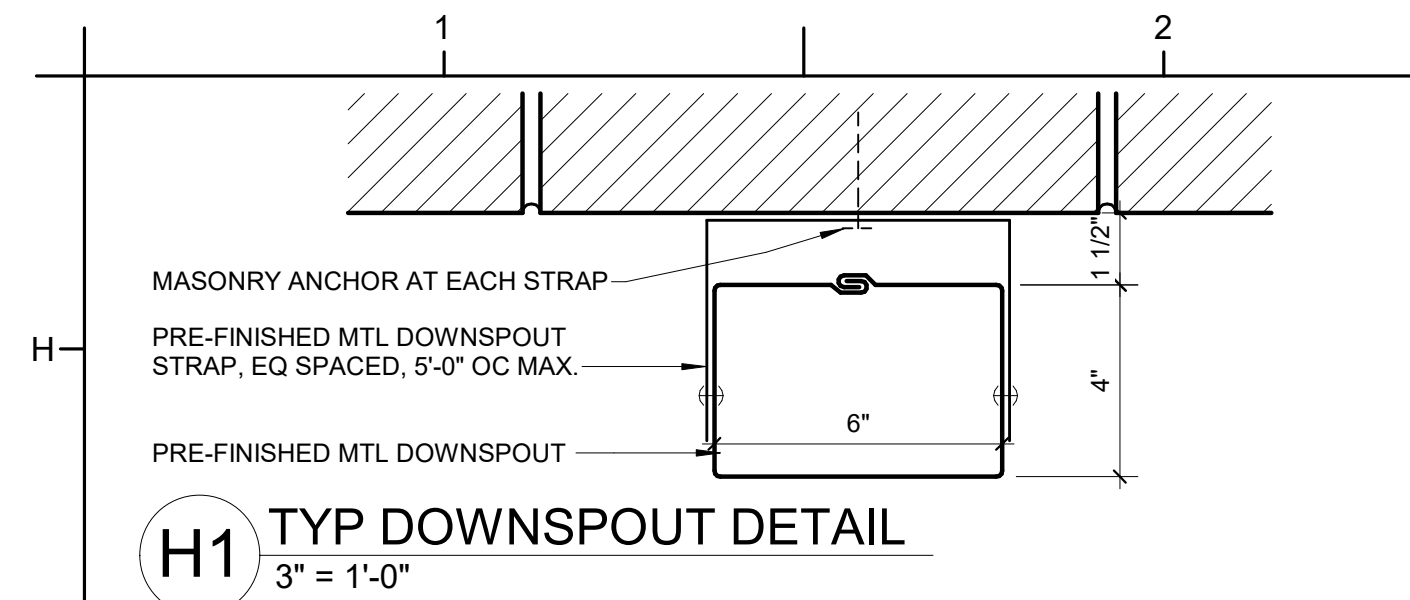
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PM: DK  
Drawn By: DK  
Plot Date: 6/13/2025 11:54:45 AM

DATE ISSUED

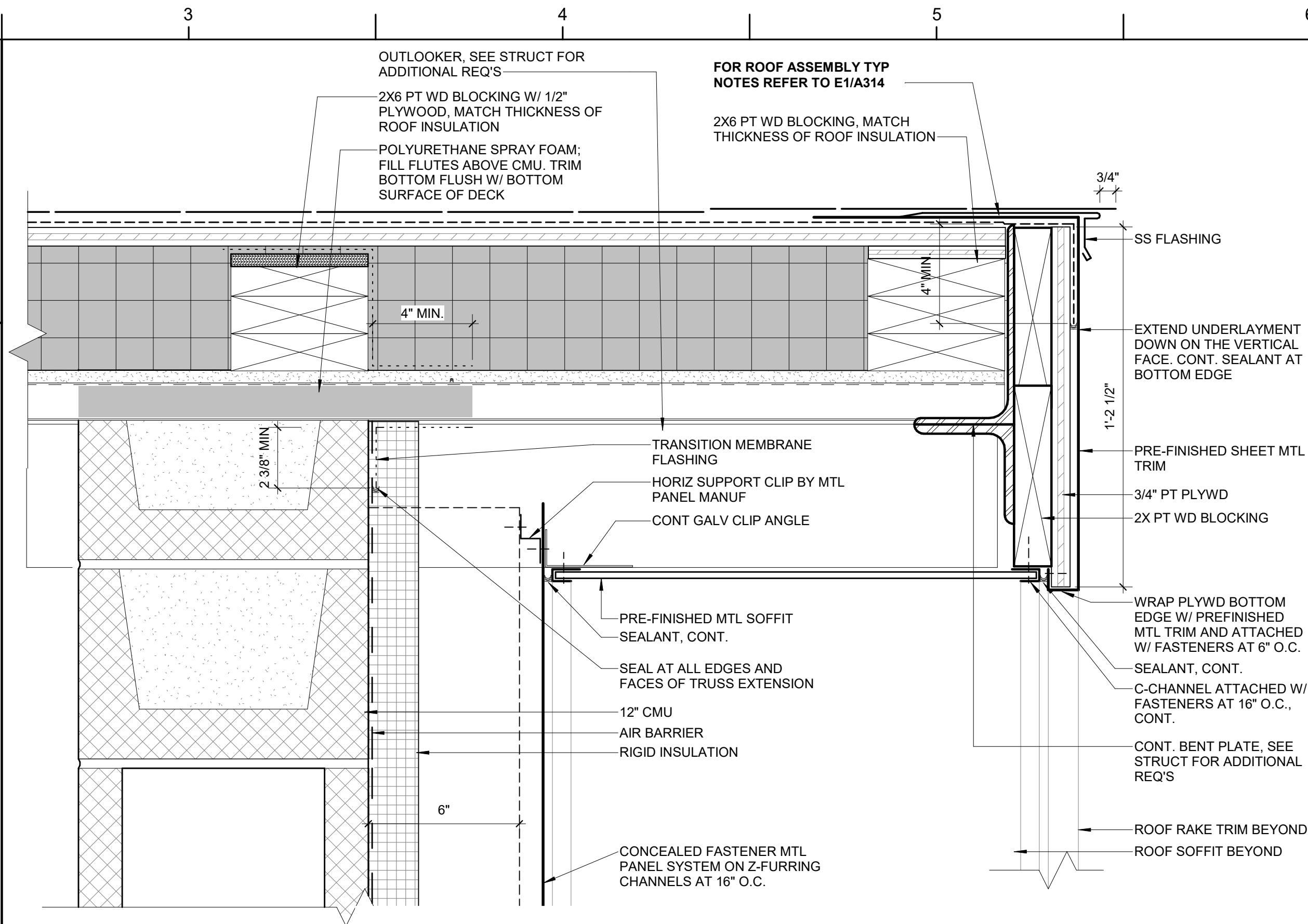
BID SET  
6/17/2025

SHEET TITLE  
ROOF DETAILS

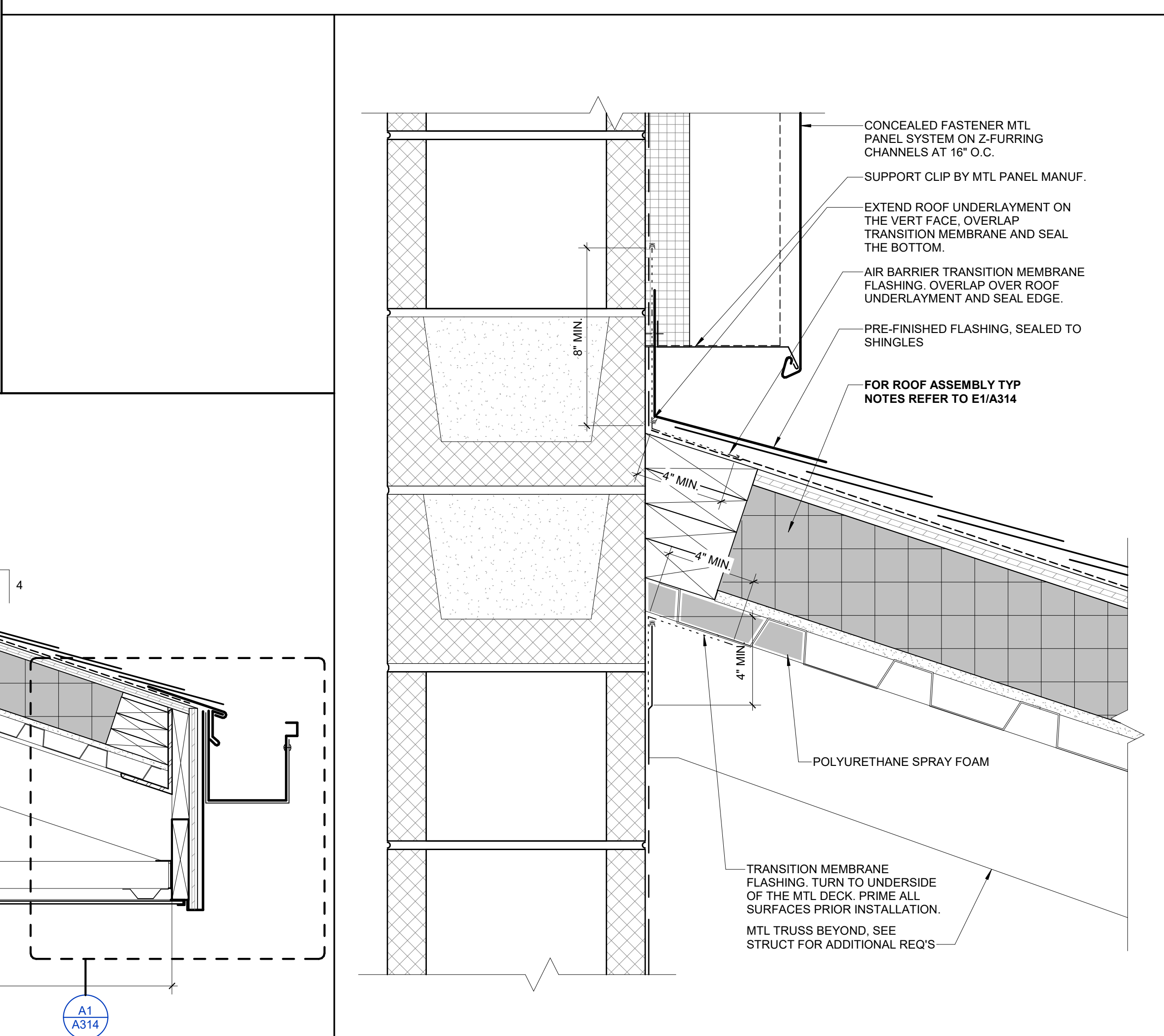
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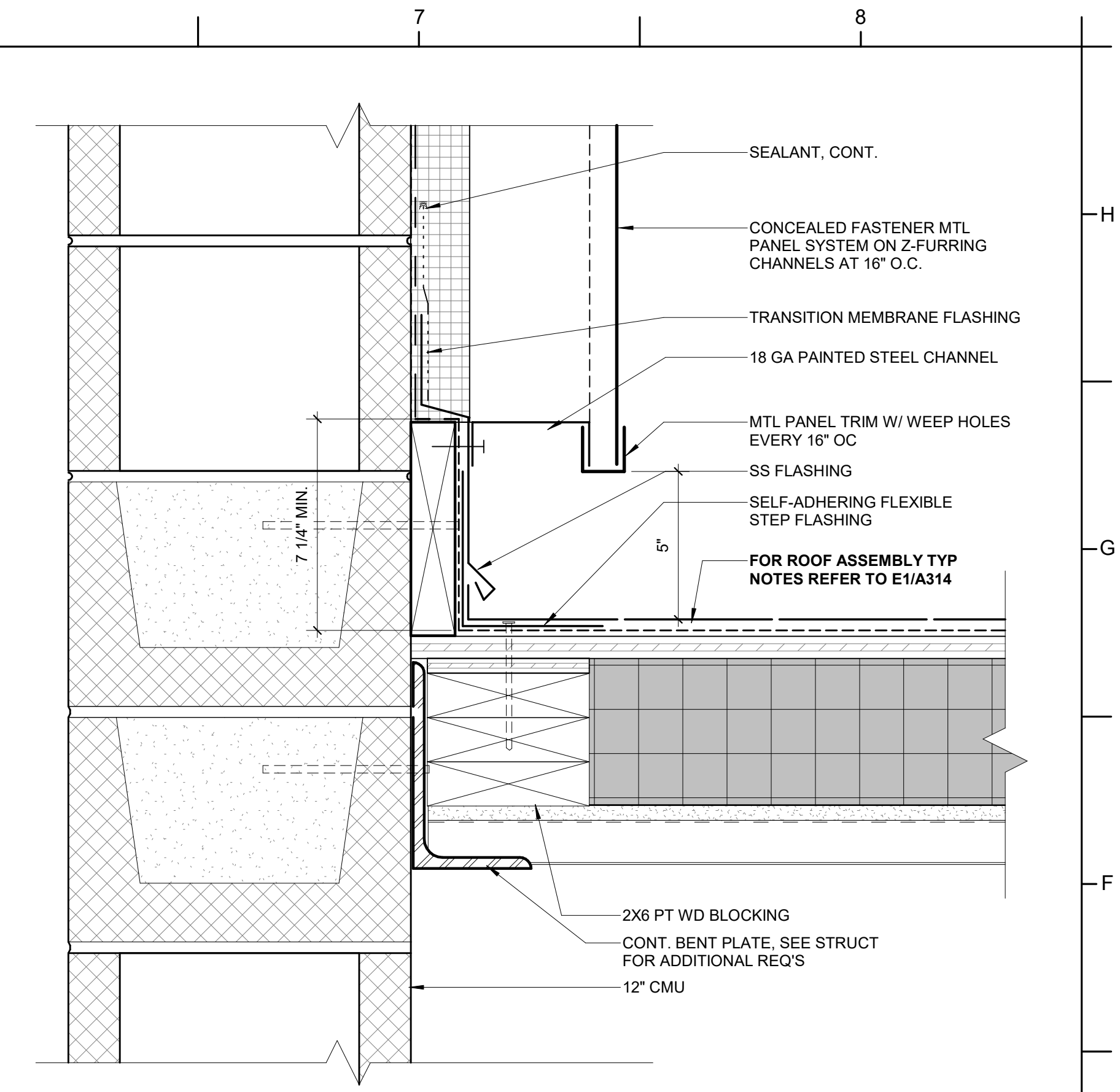
**A1 TYP ROOF OVERHANG (AT MASONRY WALL)**  
1 1/2" = 1'-0"



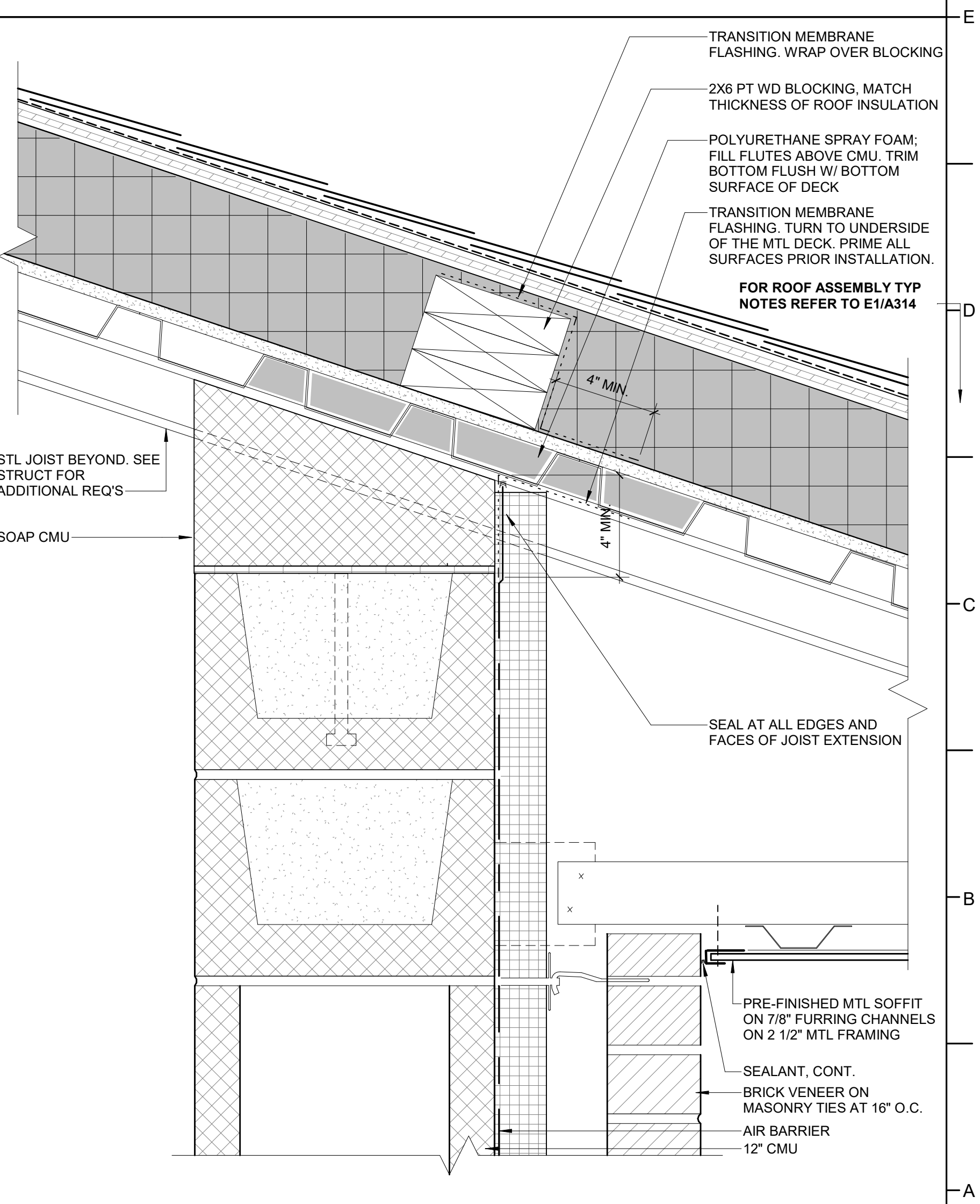
**E3 TYP ROOF RAKE DETAIL (AT MASONRY WALL)**  
3" = 1'-0"



**A4 ROOF TO WALL TRANSITION DETAIL (AT MASONRY WALL)**  
3" = 1'-0"



**E6 TYP ROOF TO WALL TRANSITION DETAIL (AT MASONRY WALL)**  
3" = 1'-0"



**A6 TYP WALL TO ROOF TRANSITION DETAIL (AT MASONRY WALLS)**  
3" = 1'-0"

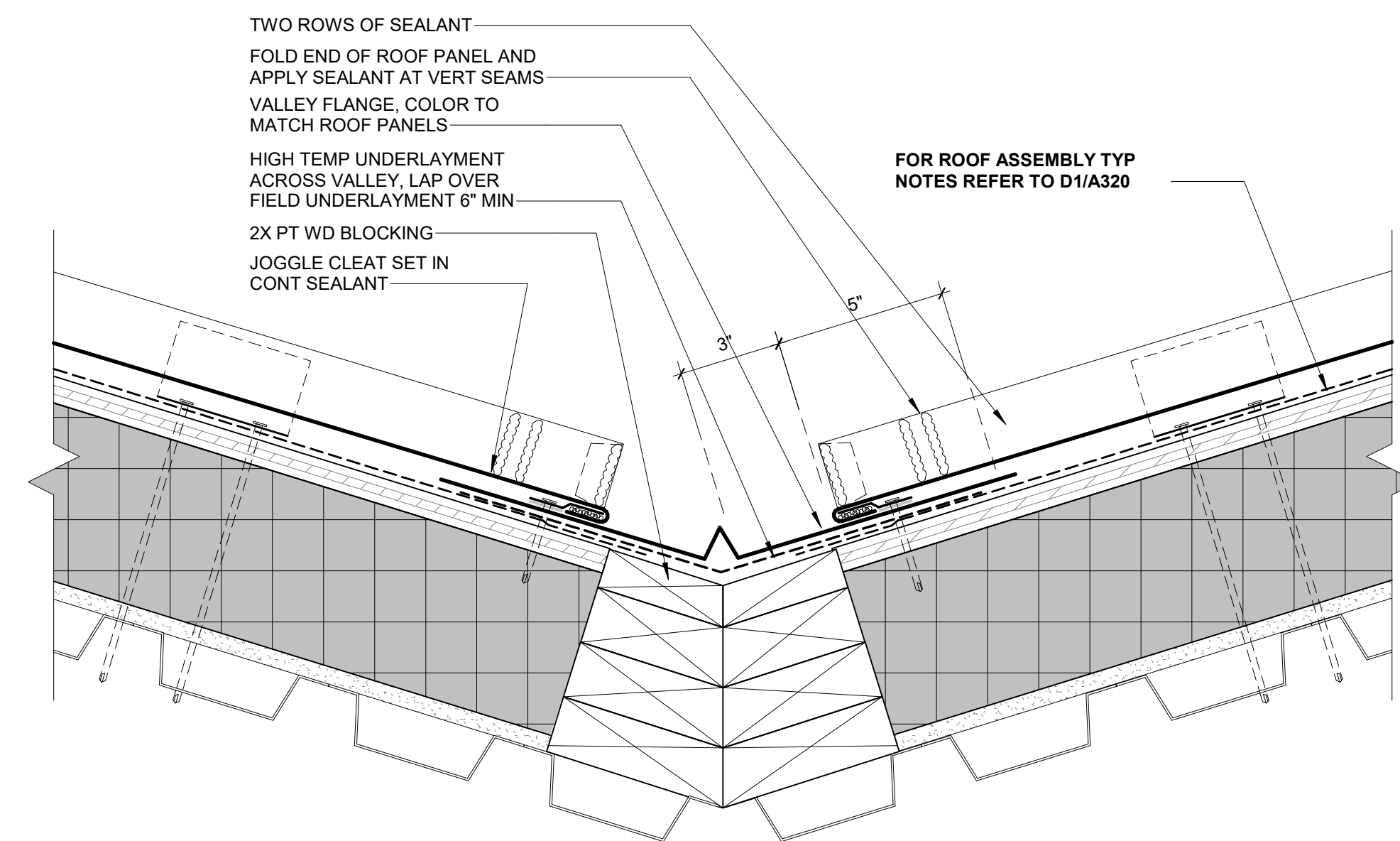




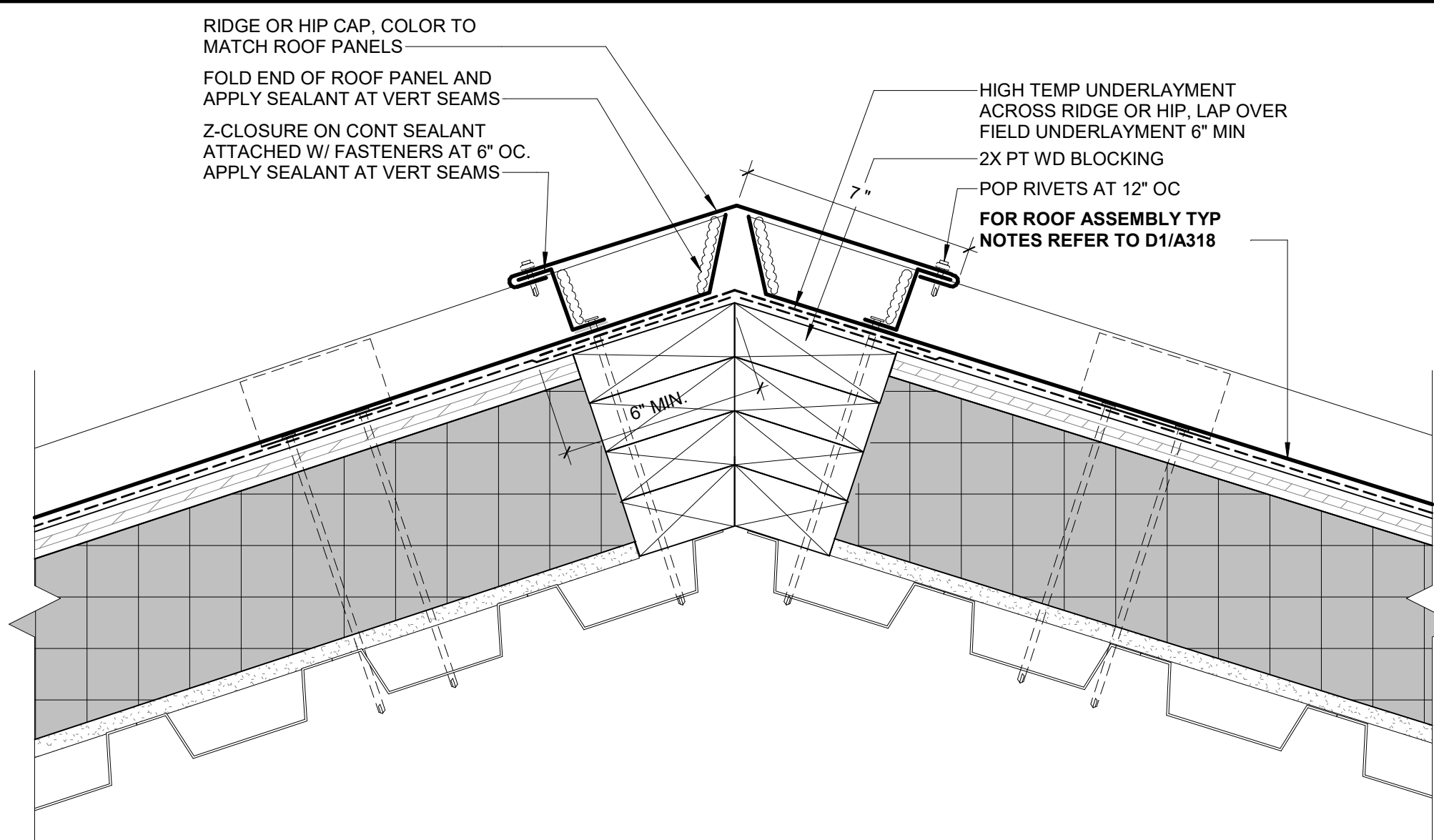
NO.	DESCRIPTION

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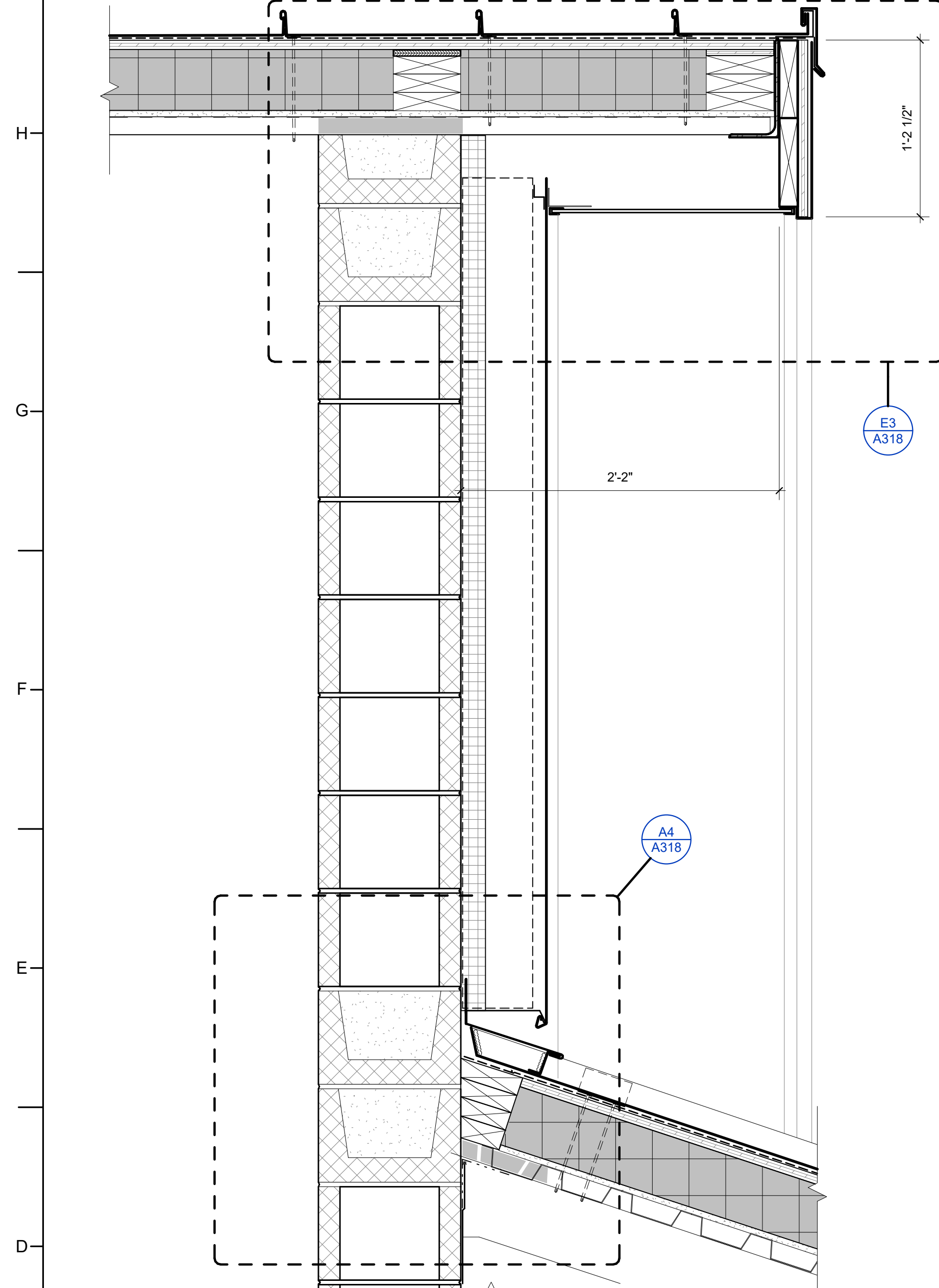
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PM: DK  
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Plot Date: 6/13/2025 11:54:47 AM



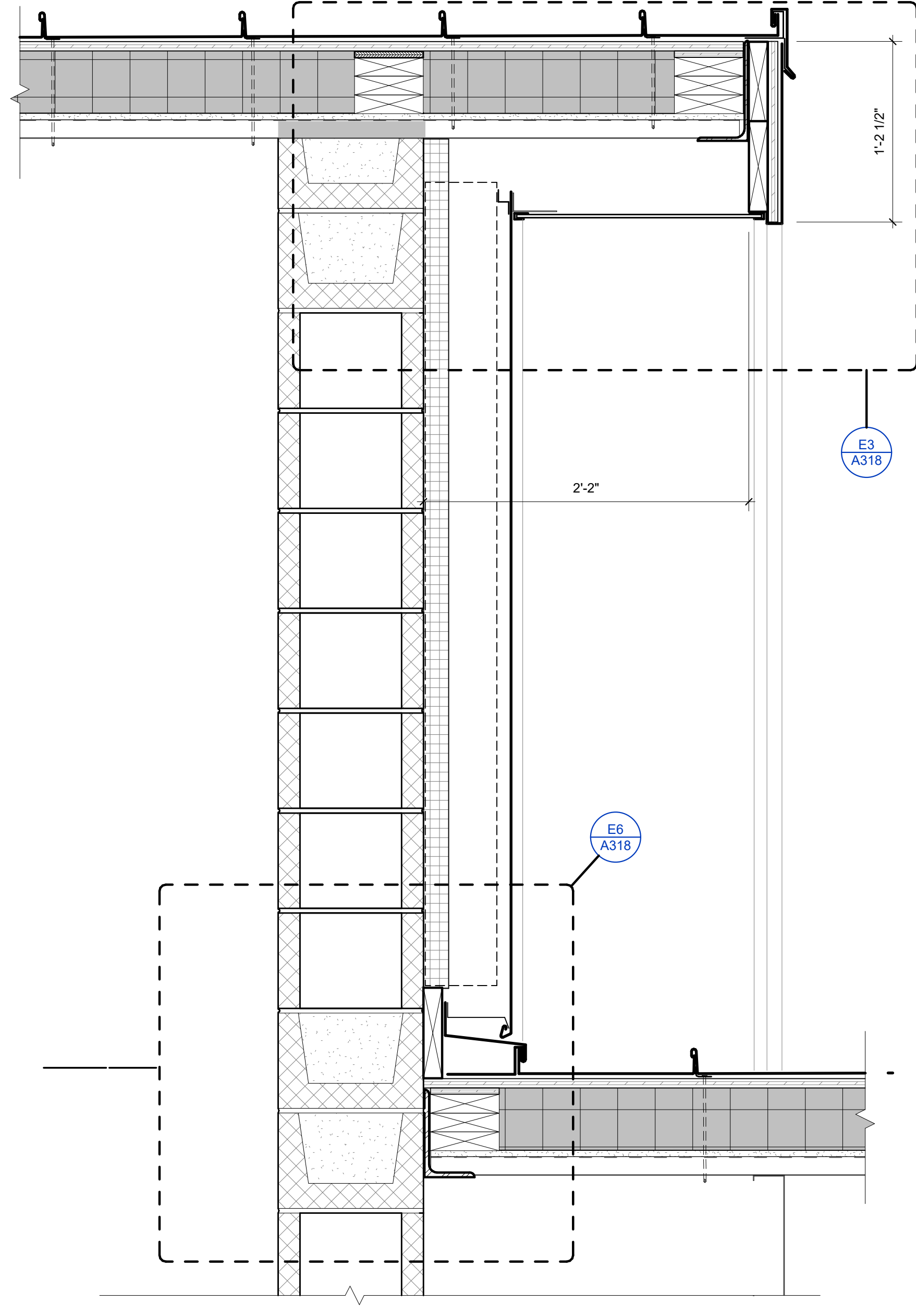
**F6** TYP ROOF VALLEY DETAIL - ALT 01  
3" = 1'-0"



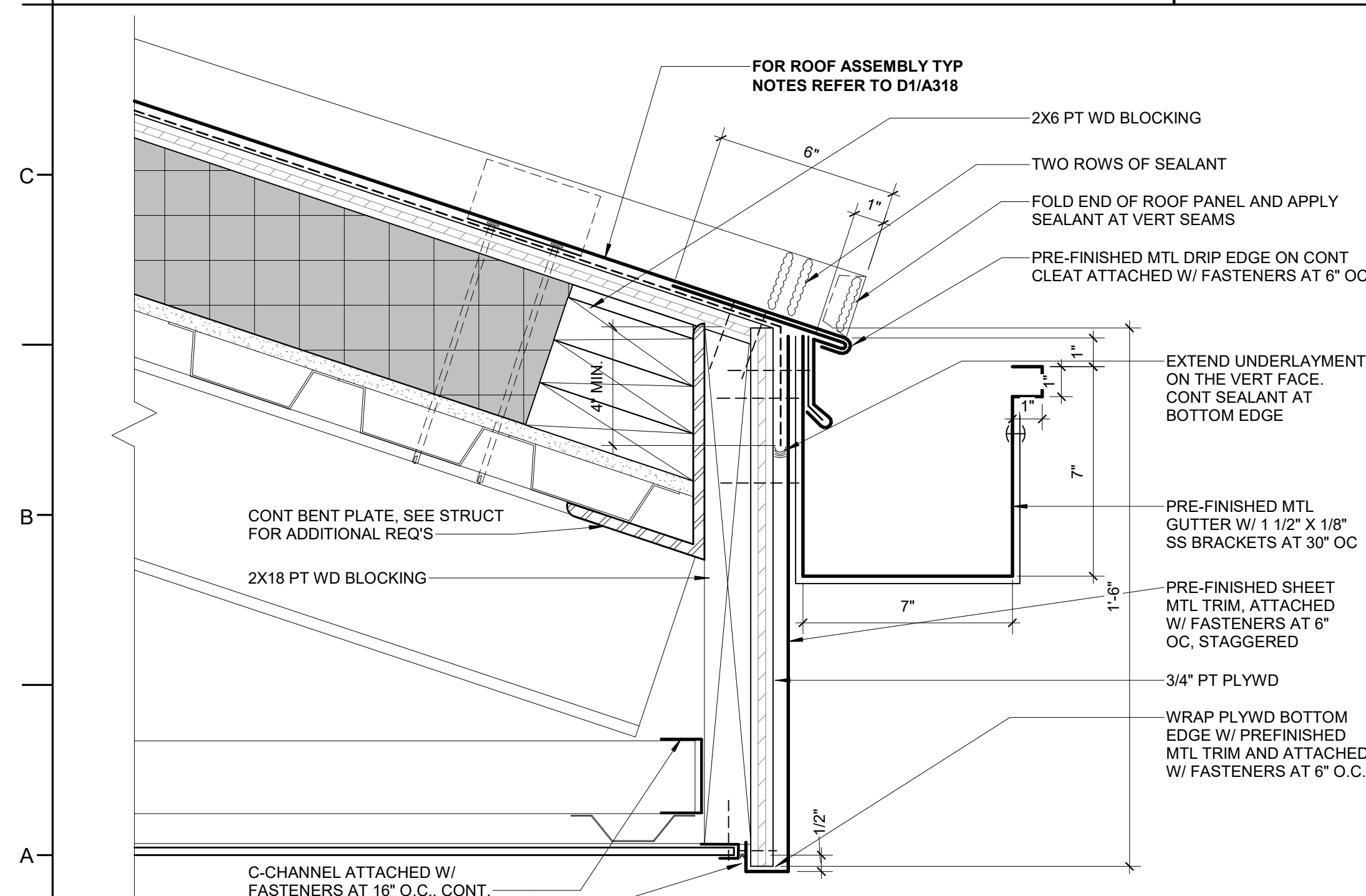
**D6** TYP ROOF RIDGE/HIP DETAIL - ALT 01  
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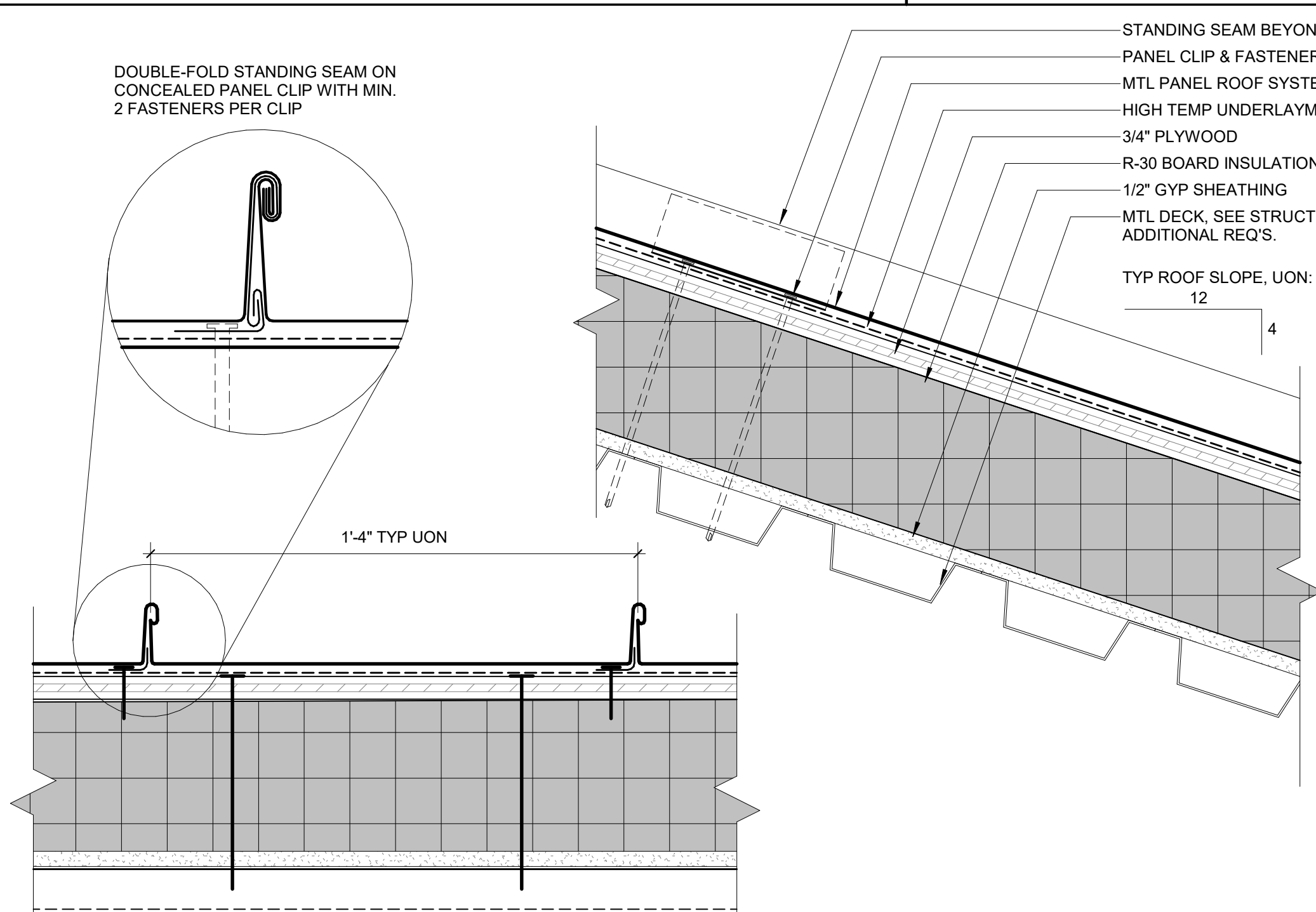
**D1** ROOF TRANSITION (AT MASONRY WALL) - ALT 01  
1 1/2" = 1'-0"



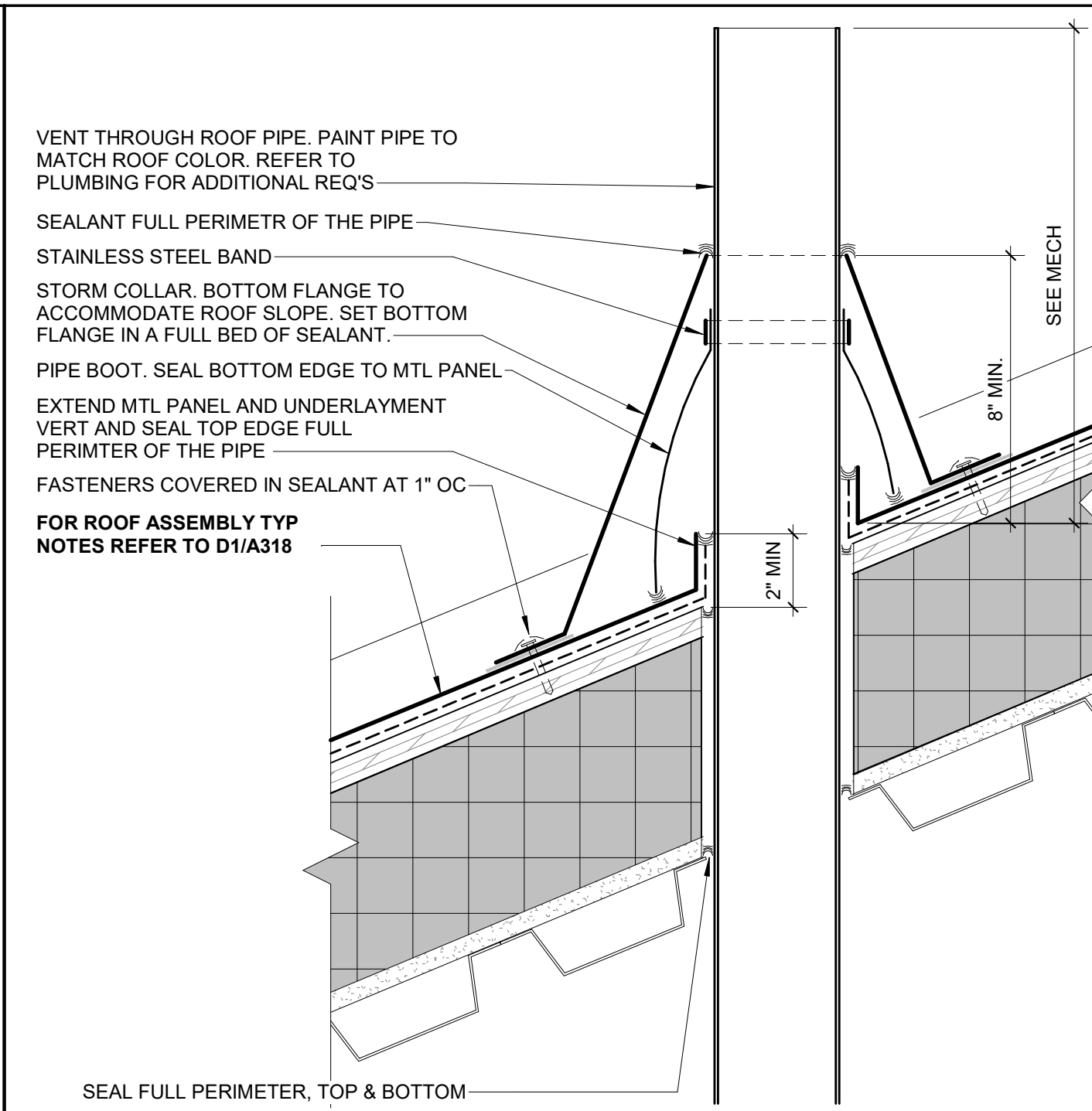
**D3** TYP ROOF RAKE (AT MASONRY WALL) - ALT 01  
1 1/2" = 1'-0"



**A1** TYP ROOF EAVE DETAIL - ALT 01  
3" = 1'-0"



**A4** TYP ROOF ASSEMBLY - ALT 01  
3" = 1'-0"

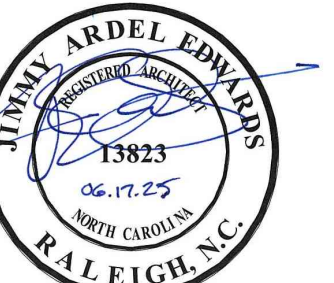


**A7** TYP ROOF PENETRATION - ALT 01  
3" = 1'-0"





## SEALS



DKA JOB NUMBER

2015

## REVISIONS

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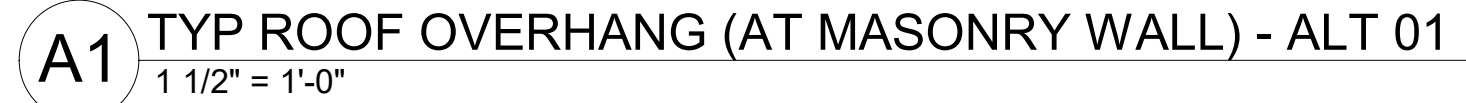
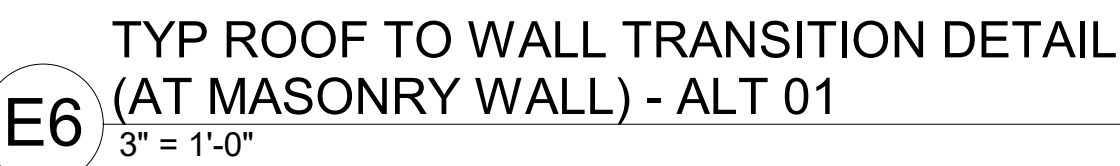
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DATE ISSUED

BID SET  
6/17/2025

SHEET TITLE
ROOF DETAILS - ALT 01

A318





PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DESCRIPTION

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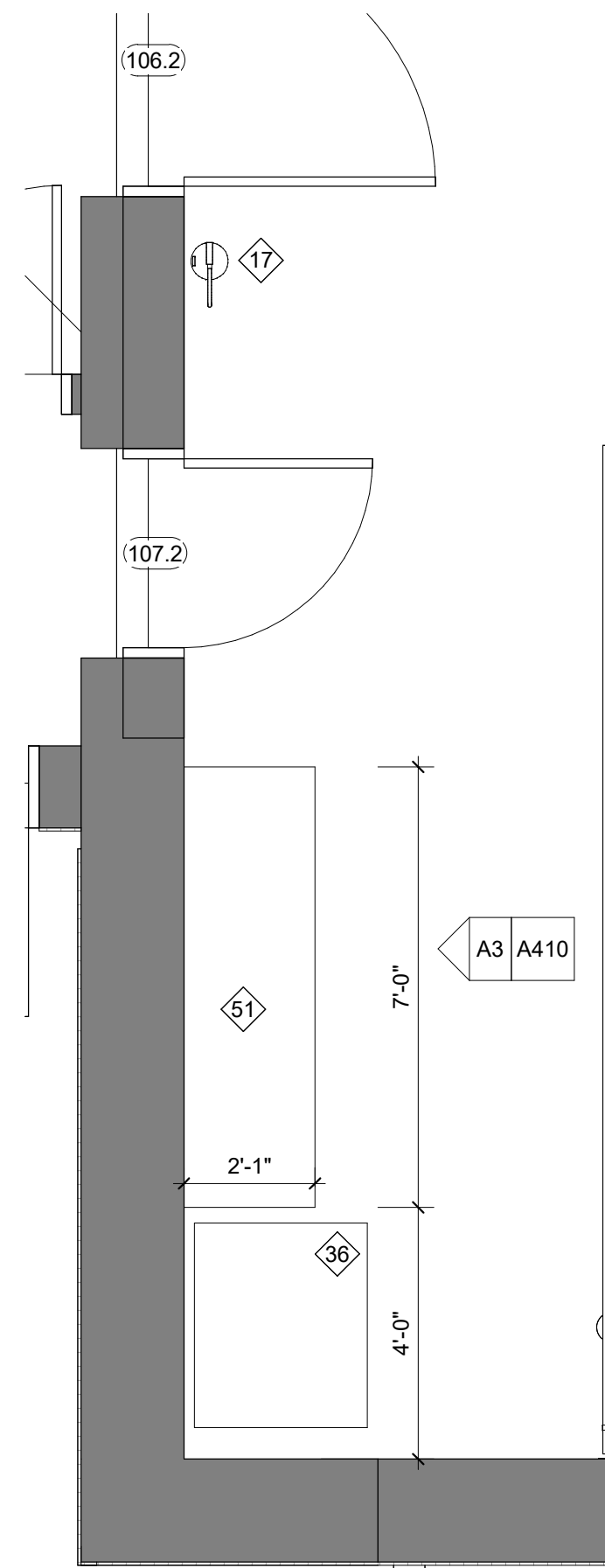
SHEET TITLE  
ENLARGED PLANS  
AND DETAILS

**A410**

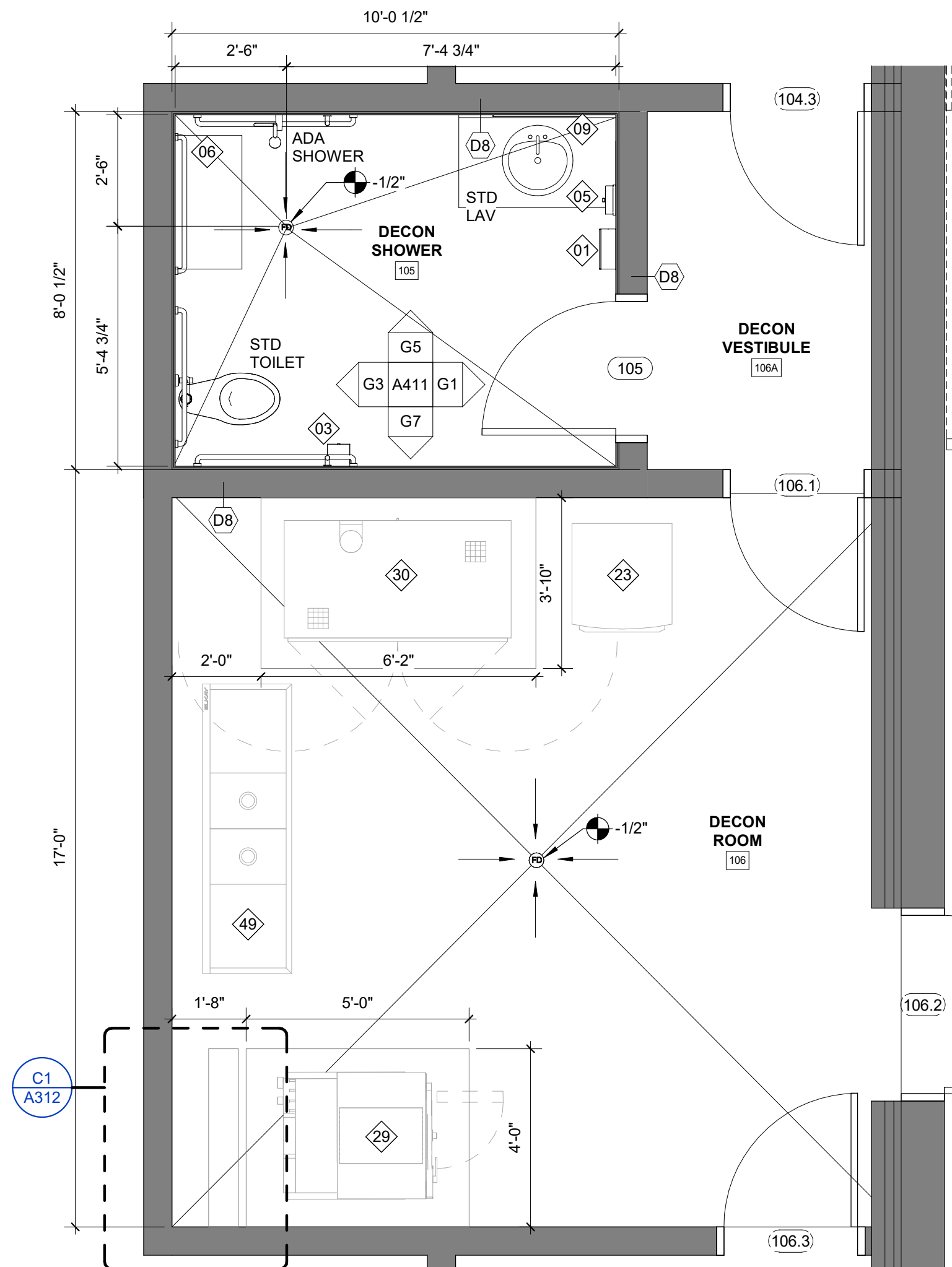
ELEVATION GENERAL NOTES:

- FOR MOUNTING HEIGHTS AND FURTHER DETAILS SEE A001
- FOR FF&E SCHEDULE SEE I200
- SEE SHEET I001 FOR TILE SETTING SYSTEMS

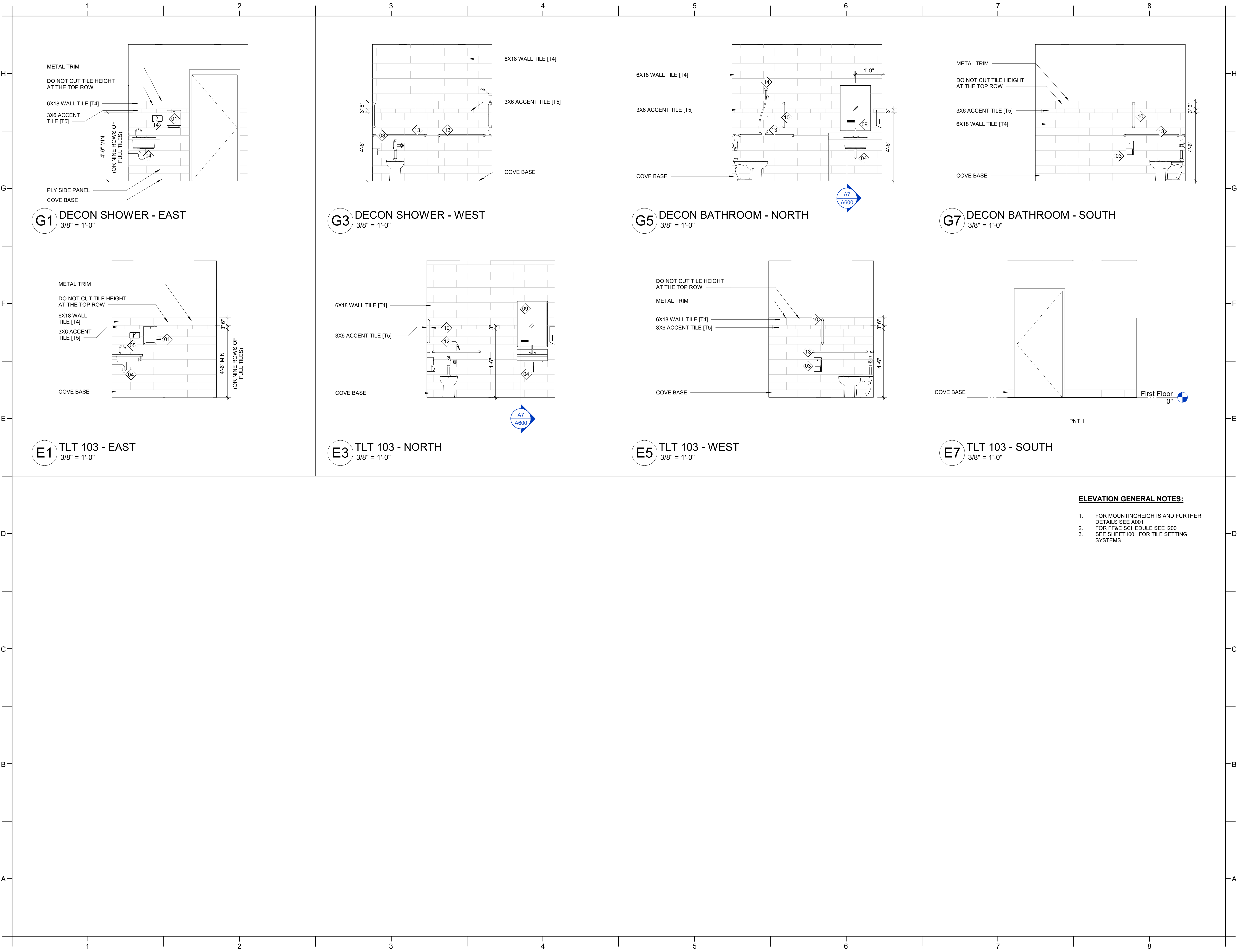
**E7** ENLARGED PLAN -  
APPARATUS BAY COUNTER  
3/8" = 1'-0"



**E5** ENLARGED PLAN - DECON ROOM & DECON SHOWER  
3/8" = 1'-0"







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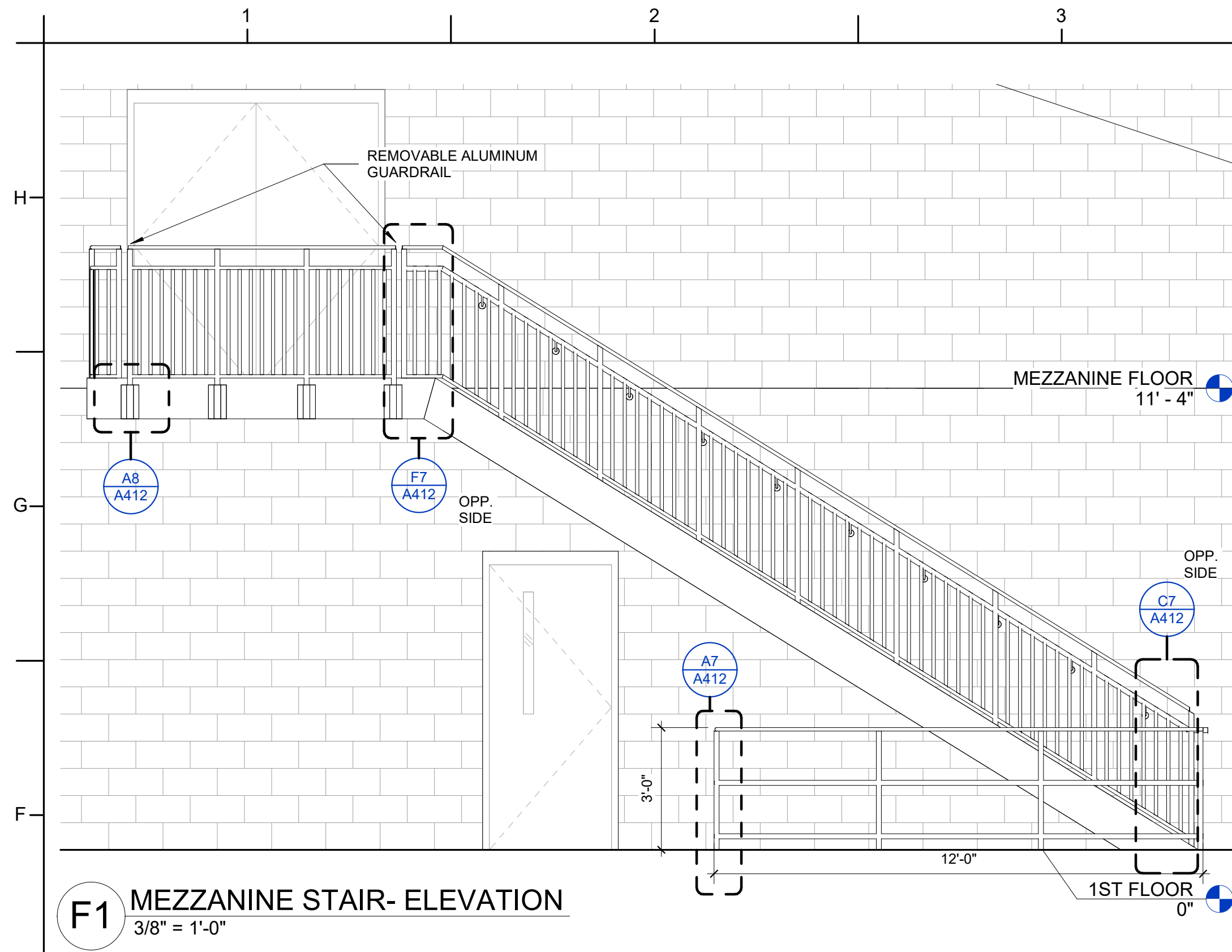
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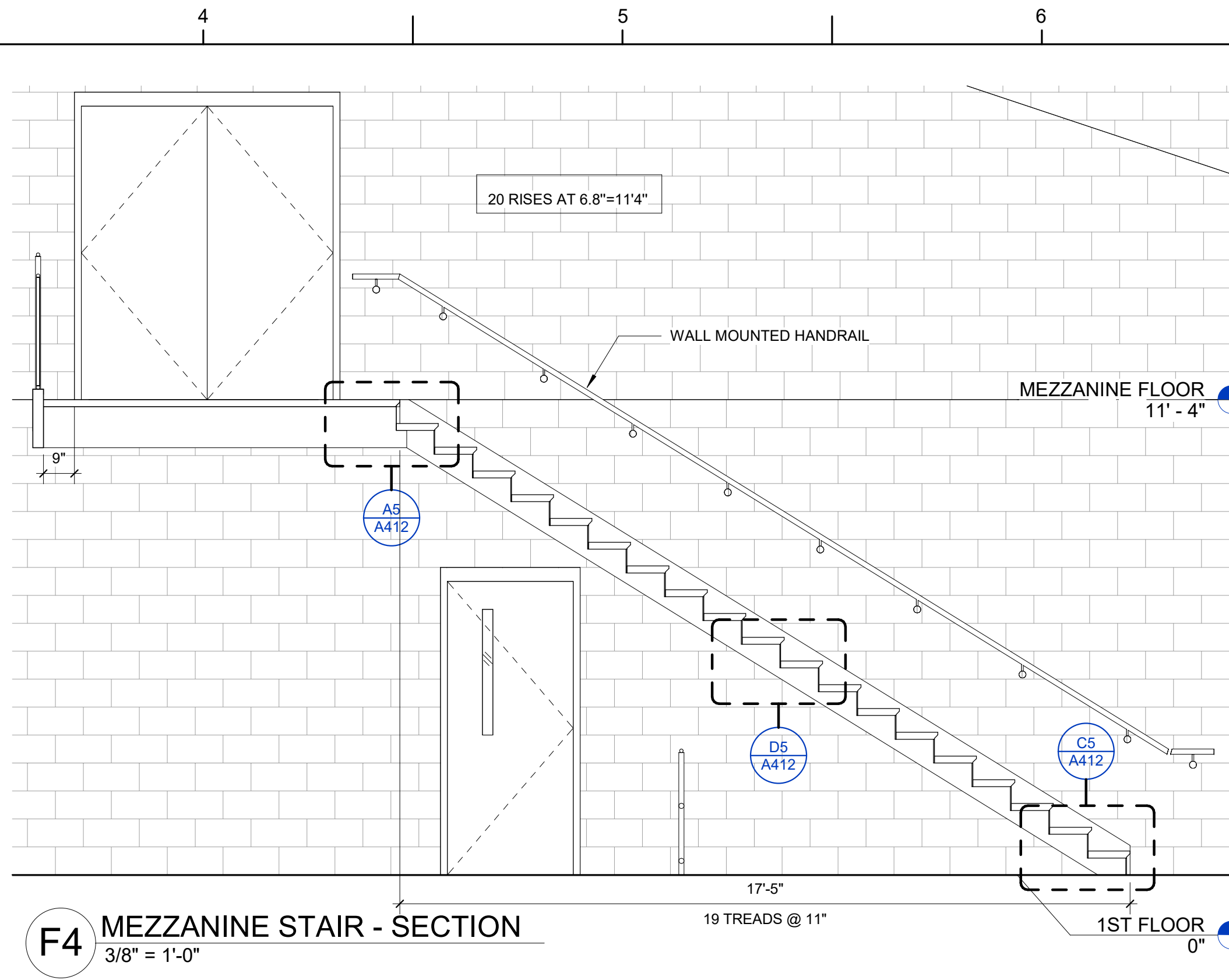
SHEET TITLE  
ENLARGED PLANS  
AND DETAILS

A411

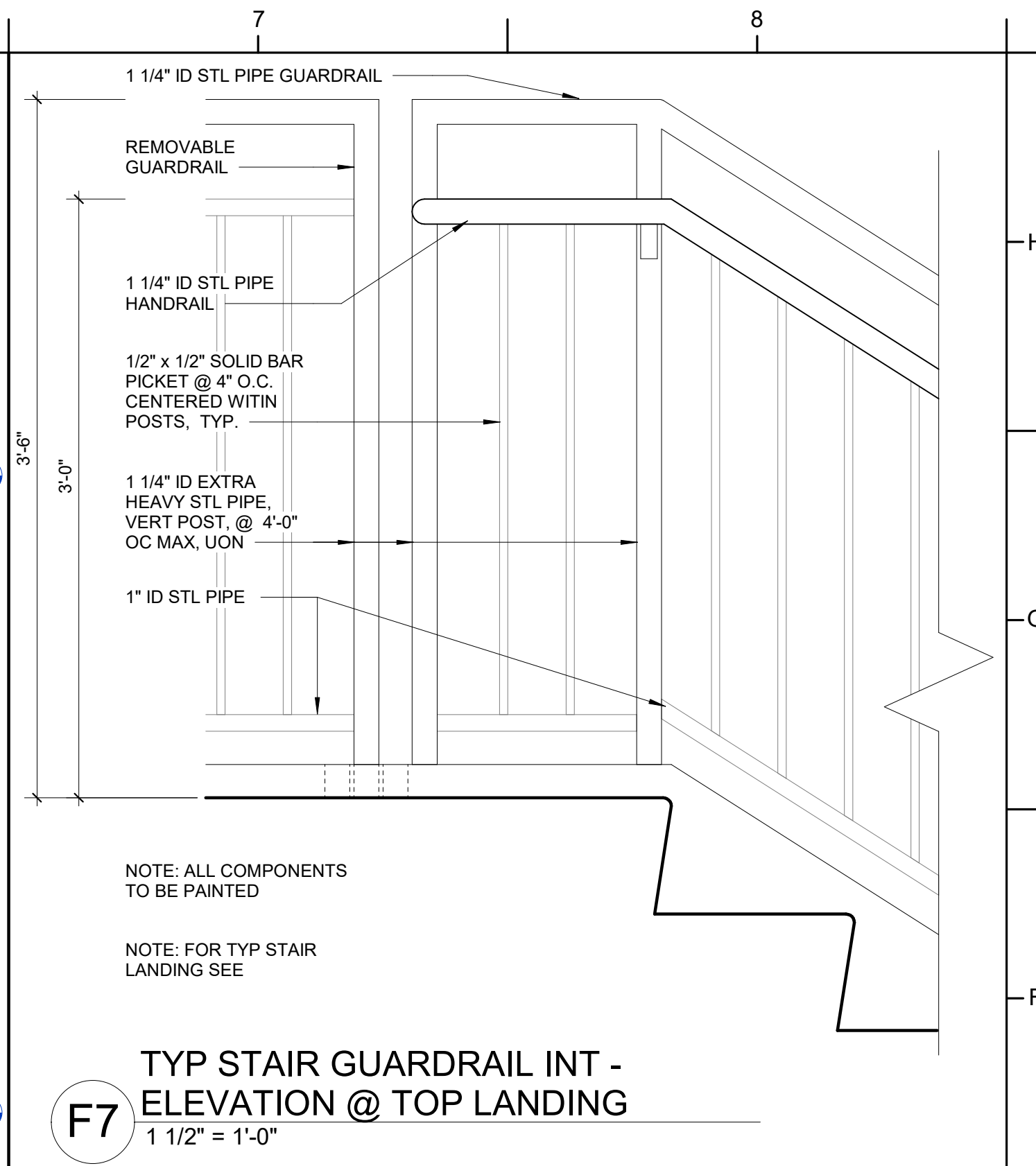




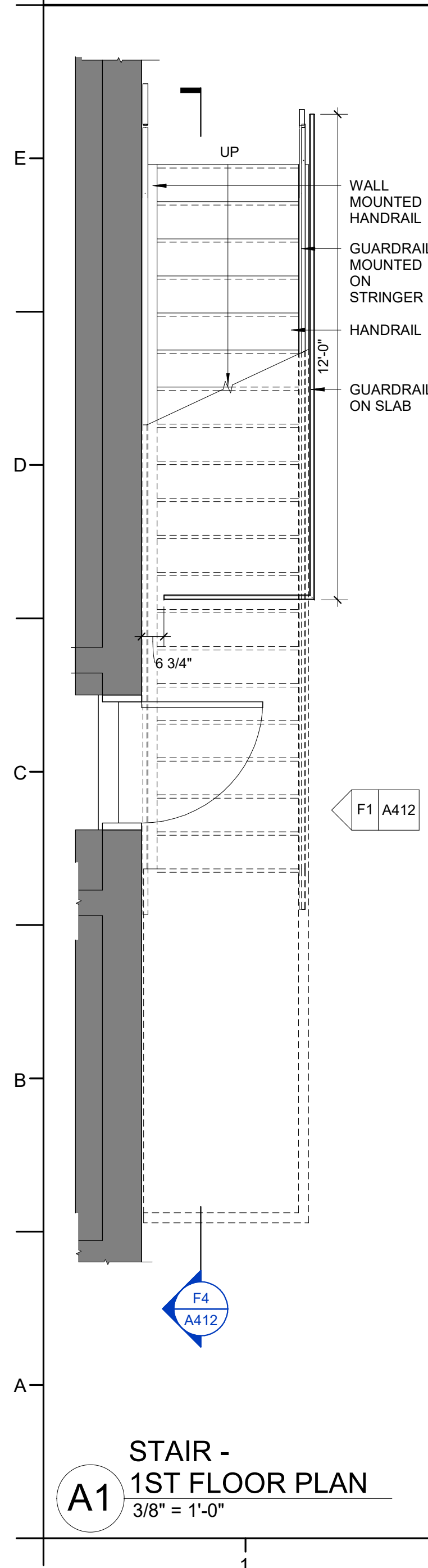
**F1 MEZZANINE STAIR- ELEVATION**  
3/8" = 1'-0"



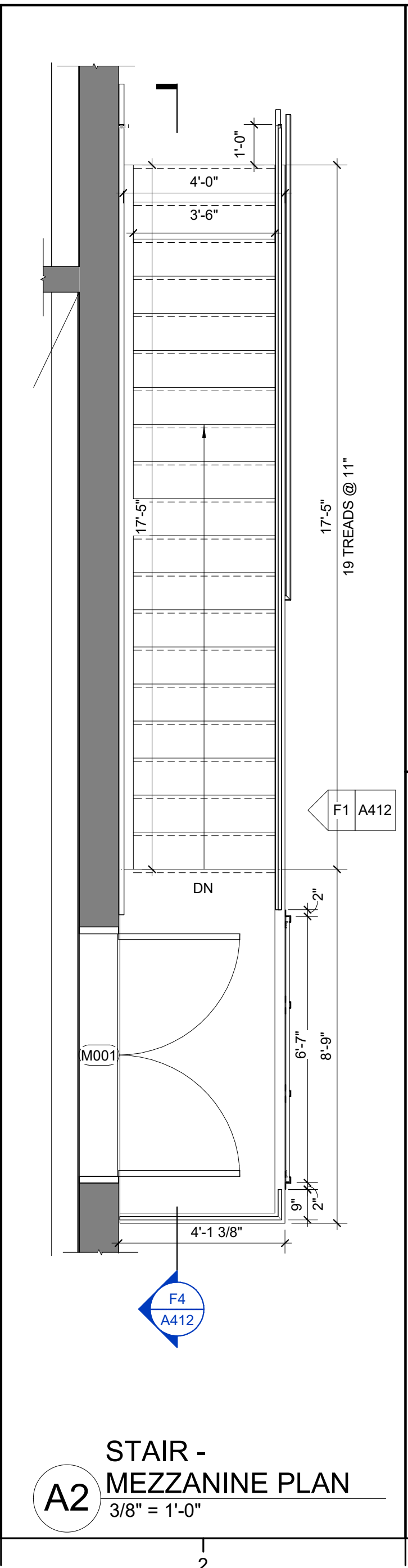
**F4 MEZZANINE STAIR - SECTION**  
3/8" = 1'-0"



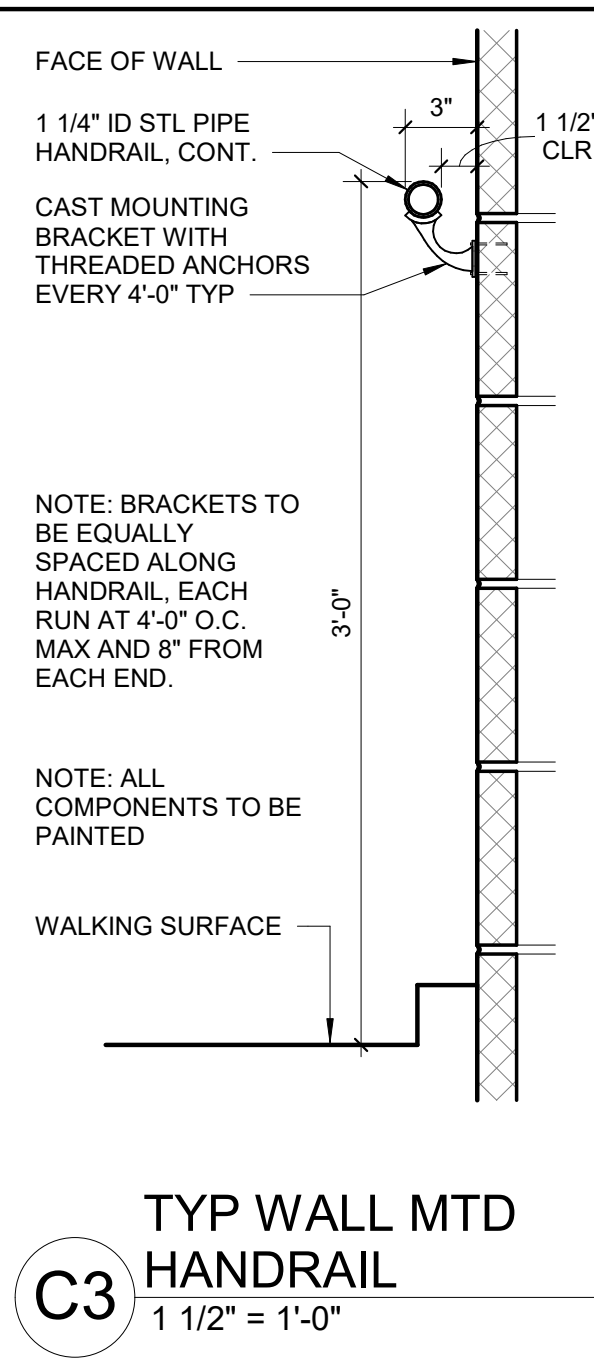
**F7 TYP STAIR GUARDRAIL INT - ELEVATION @ TOP LANDING**  
1 1/2" = 1'-0"



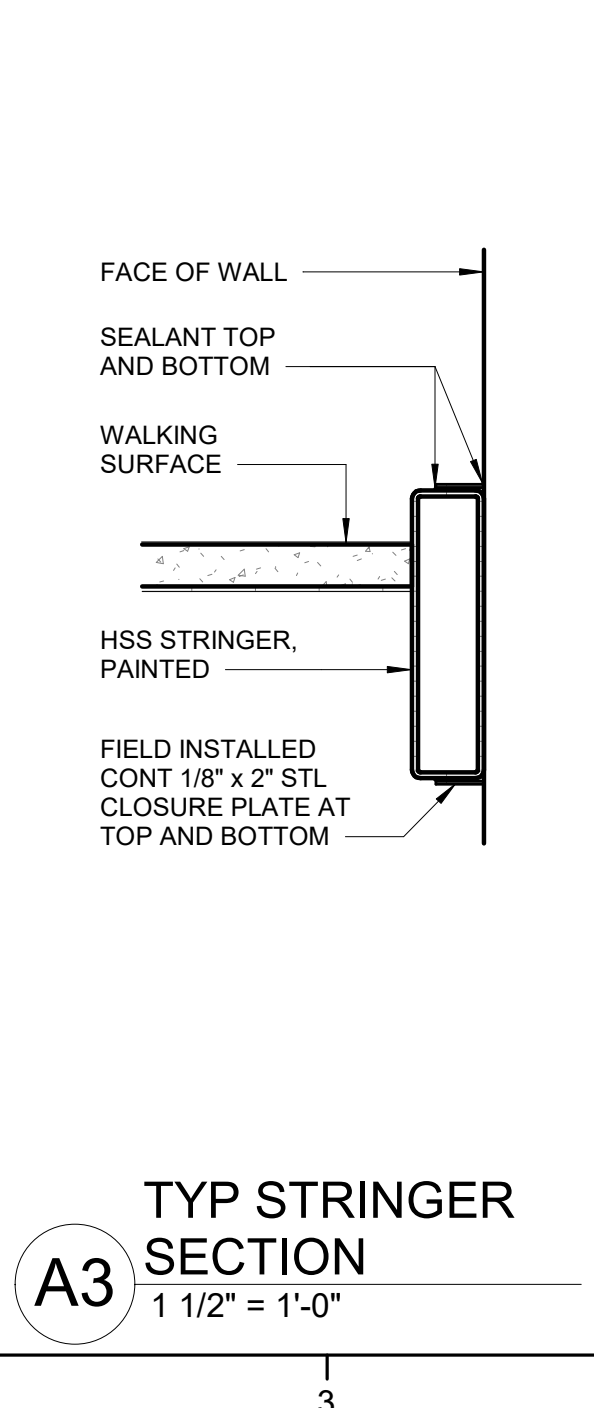
**A1 STAIR - 1ST FLOOR PLAN**  
3/8" = 1'-0"



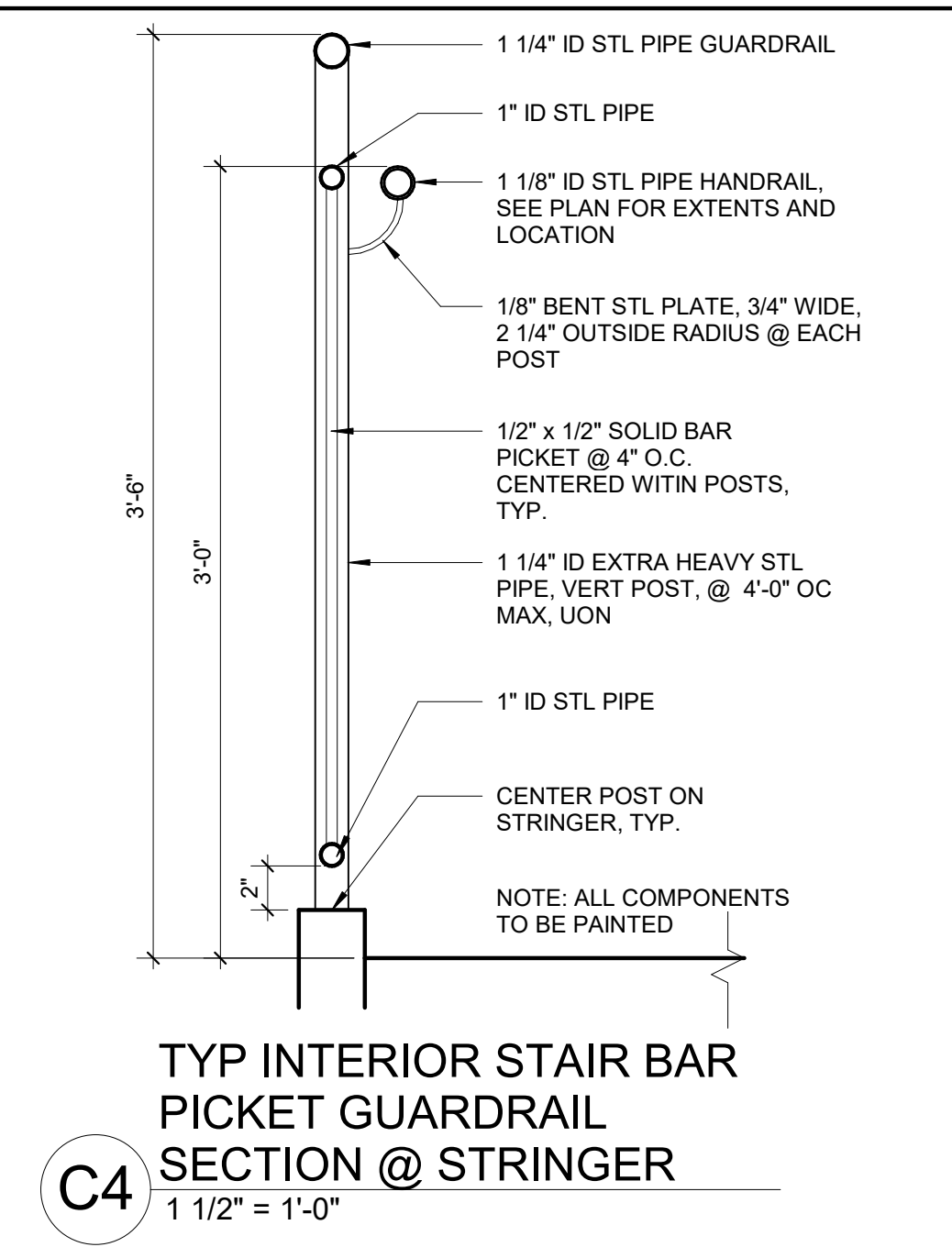
**A2 STAIR - MEZZANINE PLAN**  
3/8" = 1'-0"



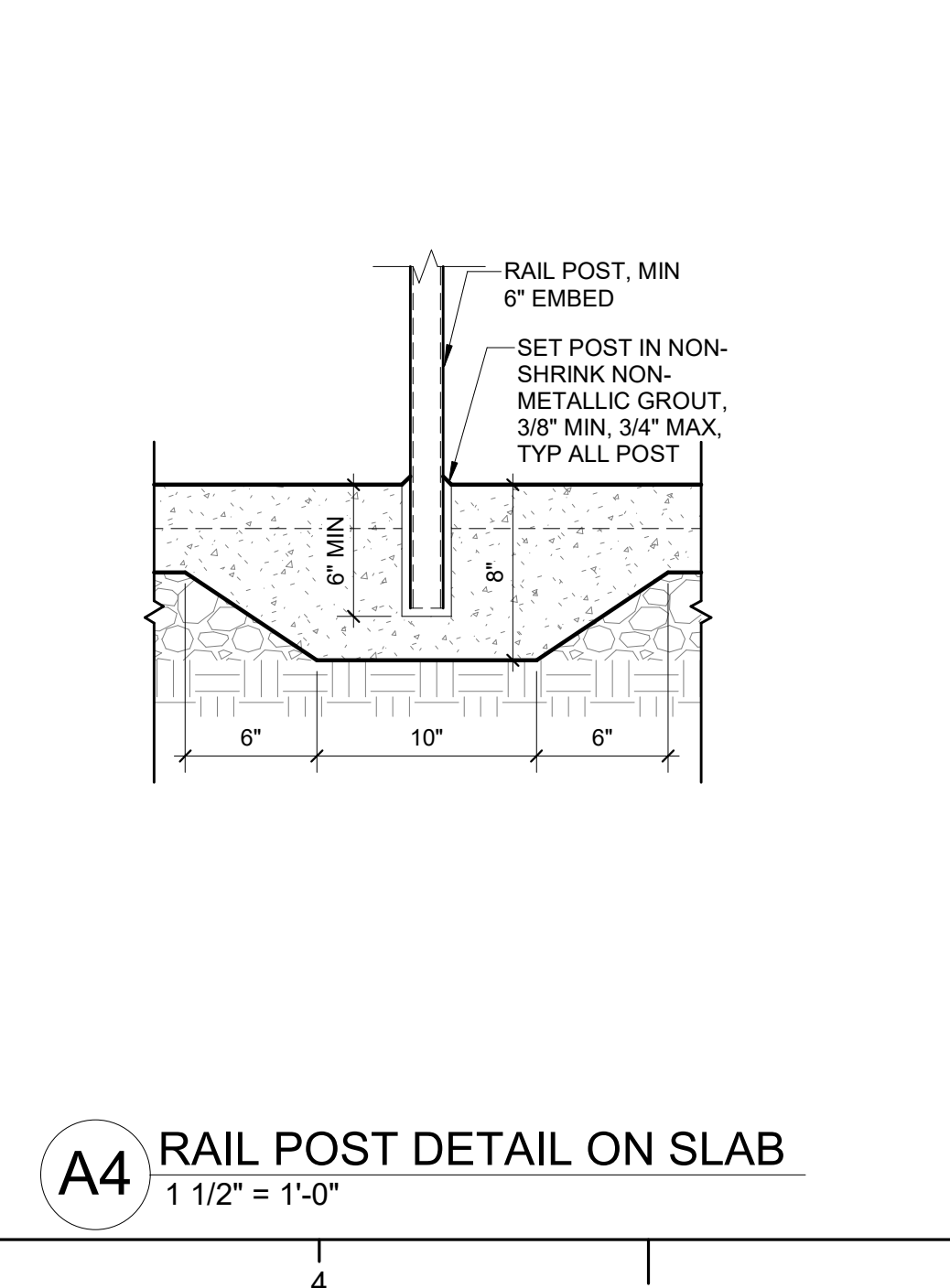
**C3 TYP WALL MTD HANDRAIL**  
1 1/2" = 1'-0"



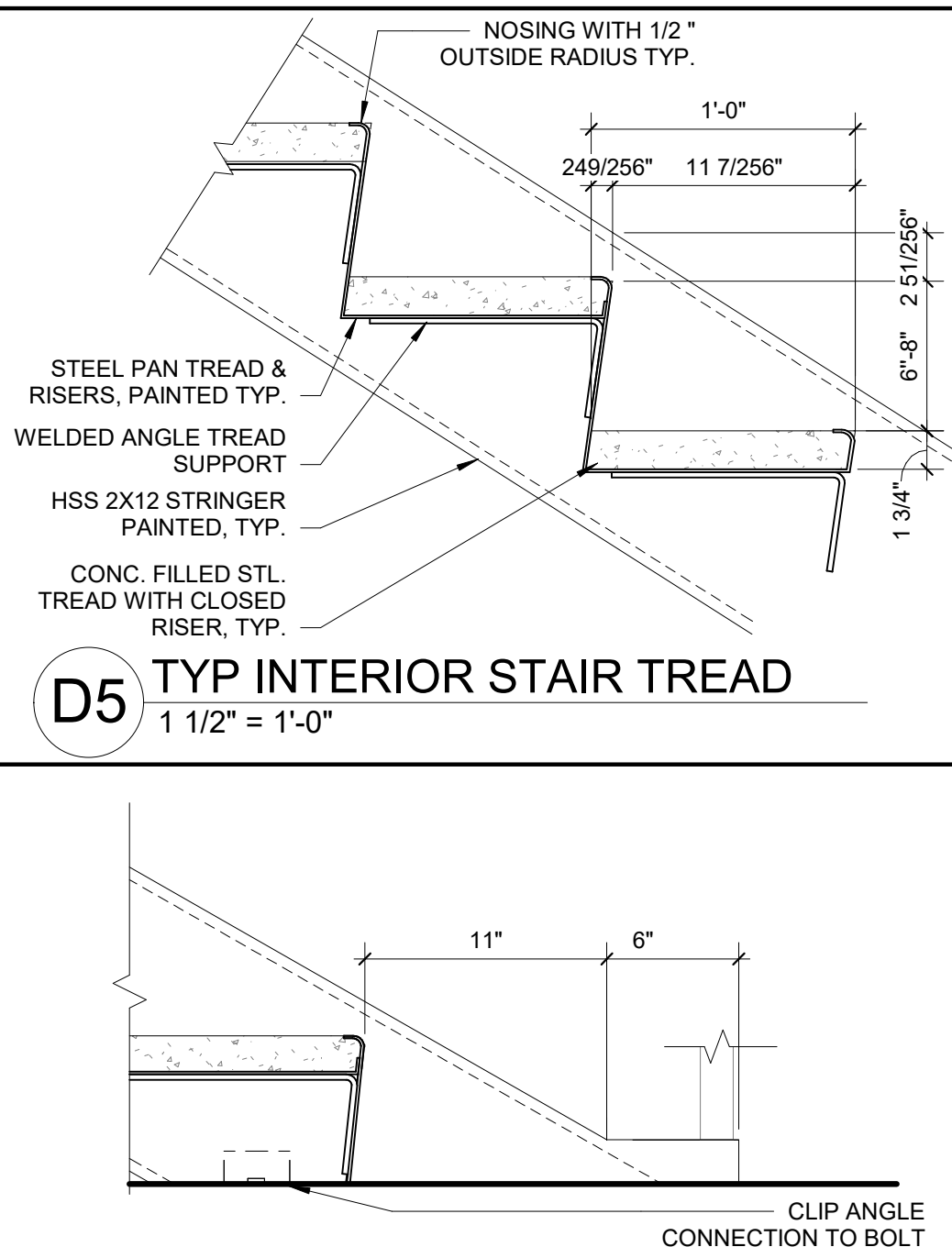
**A3 TYP STRINGER SECTION**  
1 1/2" = 1'-0"



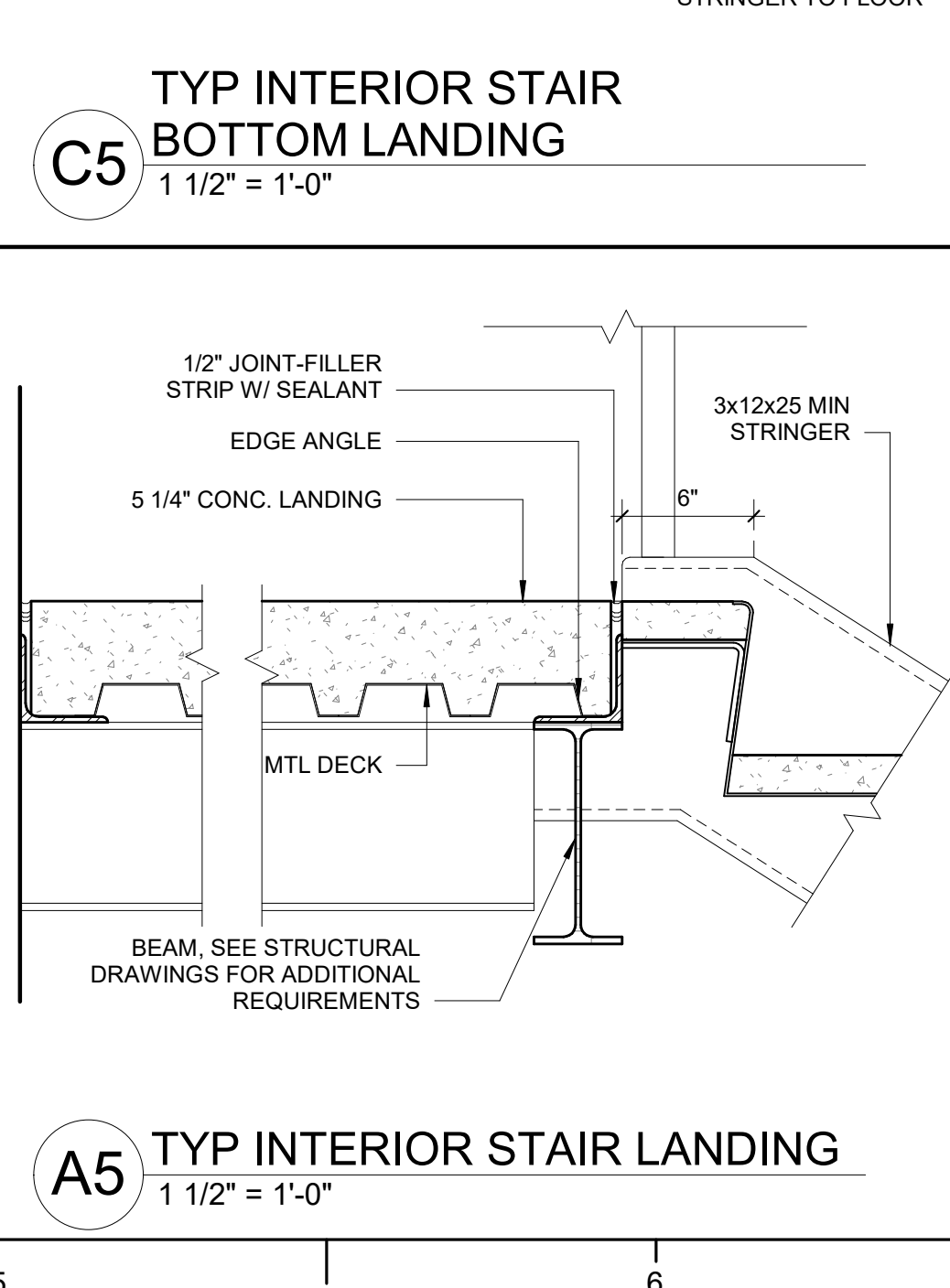
**C4 TYP INTERIOR STAIR BAR PICKET GUARDRAIL SECTION @ STRINGER**  
1 1/2" = 1'-0"



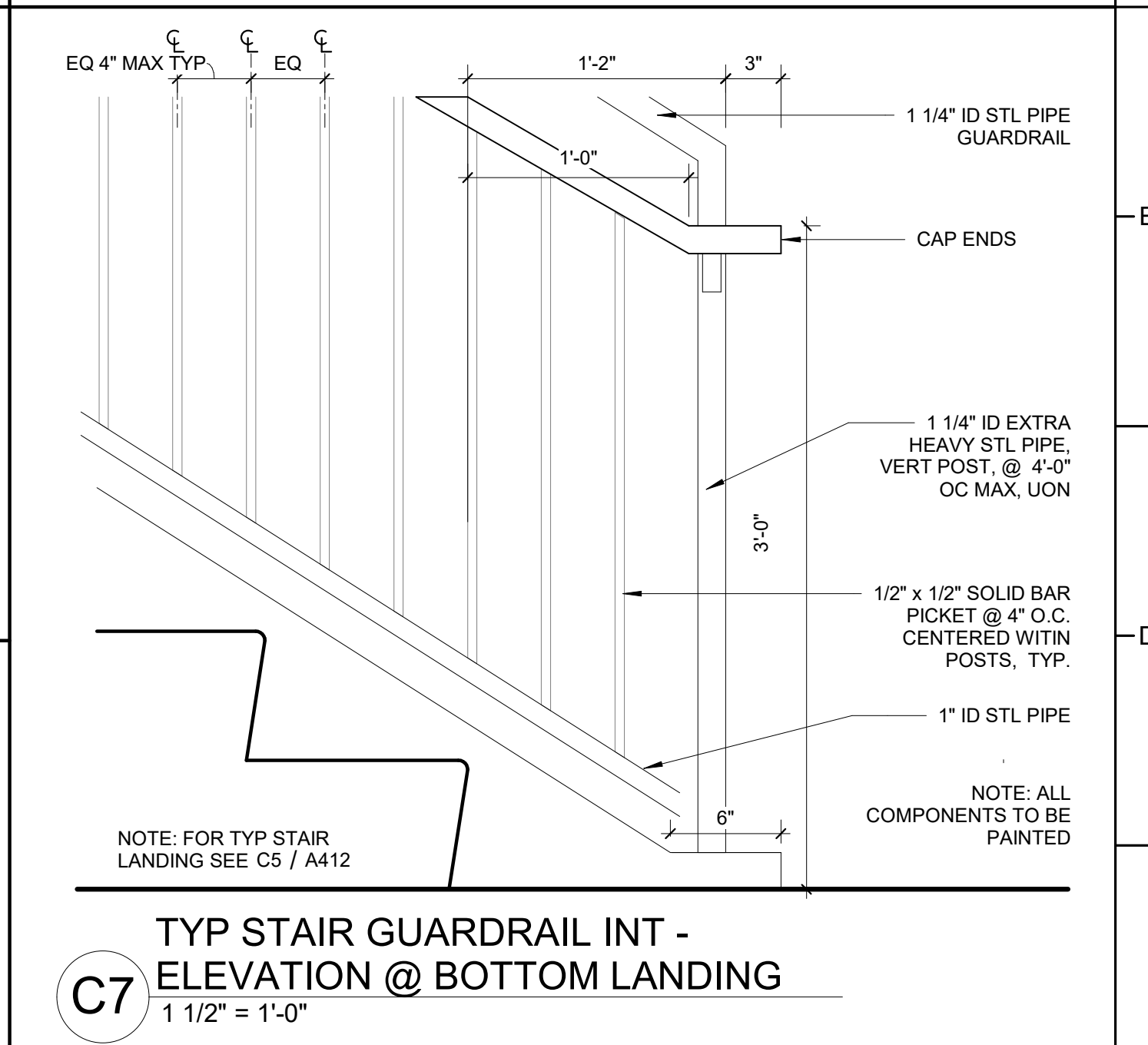
**A4 RAIL POST DETAIL ON SLAB**  
1 1/2" = 1'-0"



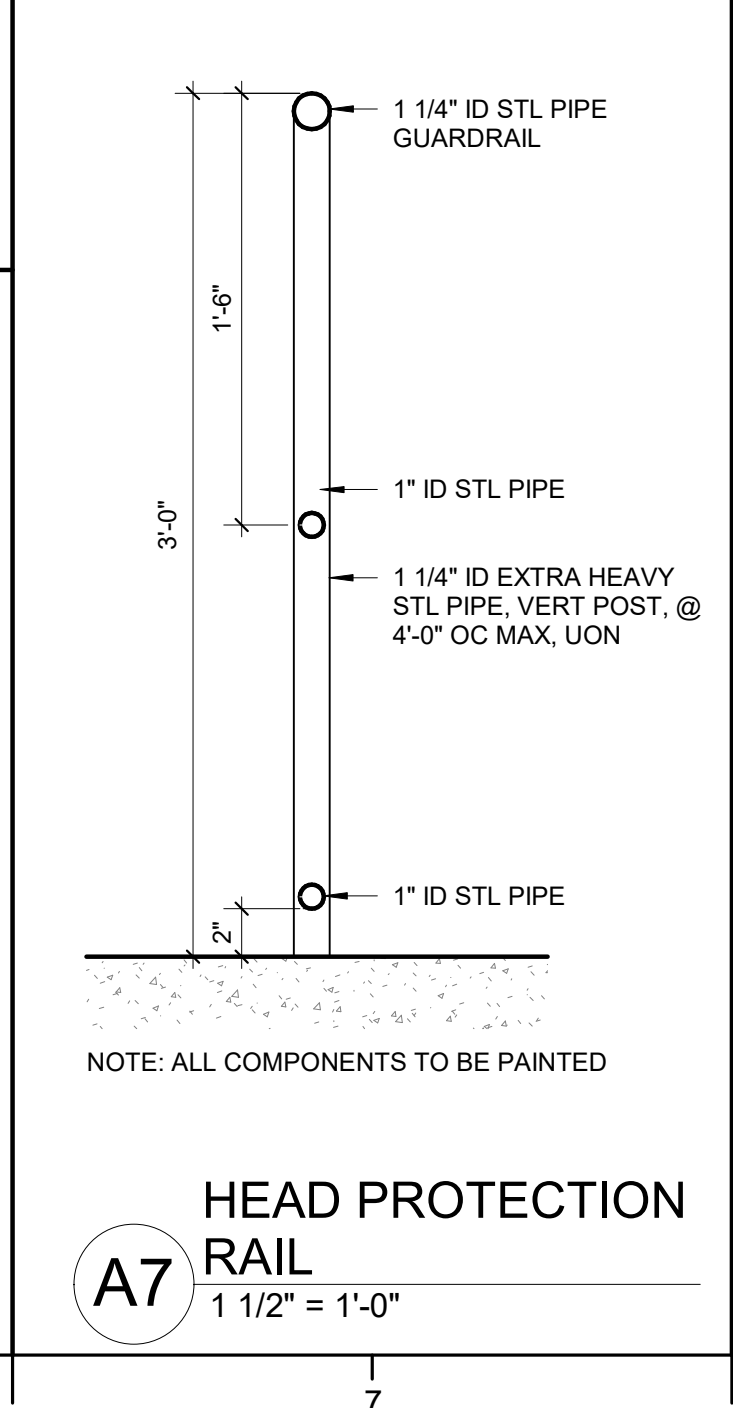
**D5 TYP INTERIOR STAIR TREAD**  
1 1/2" = 1'-0"



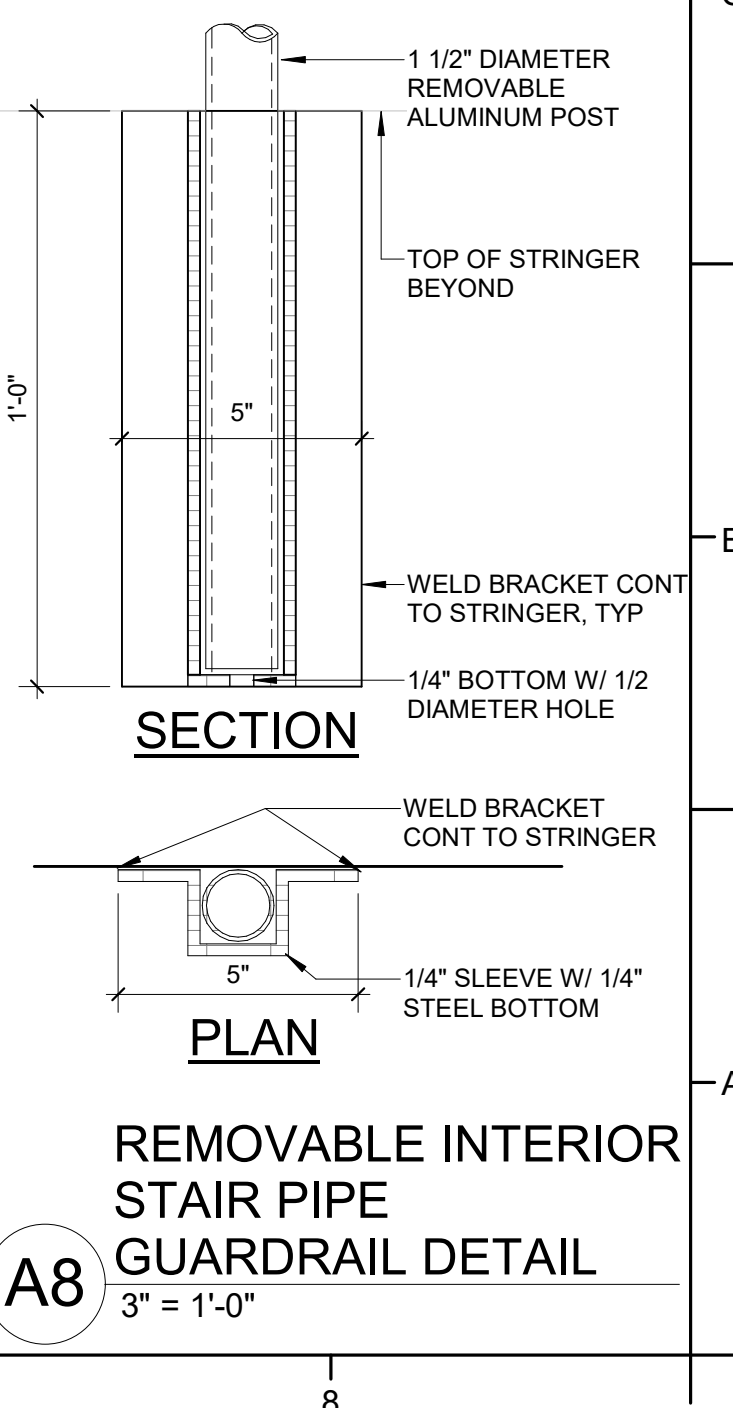
**A5 TYP INTERIOR STAIR LANDING**  
1 1/2" = 1'-0"



**C7 TYP STAIR GUARDRAIL INT - ELEVATION @ BOTTOM LANDING**  
1 1/2" = 1'-0"



**A7 HEAD PROTECTION RAIL**  
1 1/2" = 1'-0"



**A8 REMOVABLE INTERIOR STAIR PIPE GUARDRAIL DETAIL**  
3" = 1'-0"



**DAVIS KANE**  
ARCHITECTS, P.A.

503 OBERLIN ROAD | SUITE 300  
RALEIGH, NC 27605  
919.833.3737  
www.davislane.com

PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**

6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DAVIS KANE ARCHITECTS, P.A.  
50304  
RALEIGH, NC



JIMMY ARDEL EDWARDS  
13823  
RALEIGH, NC

DKA JOB NUMBER  
2015

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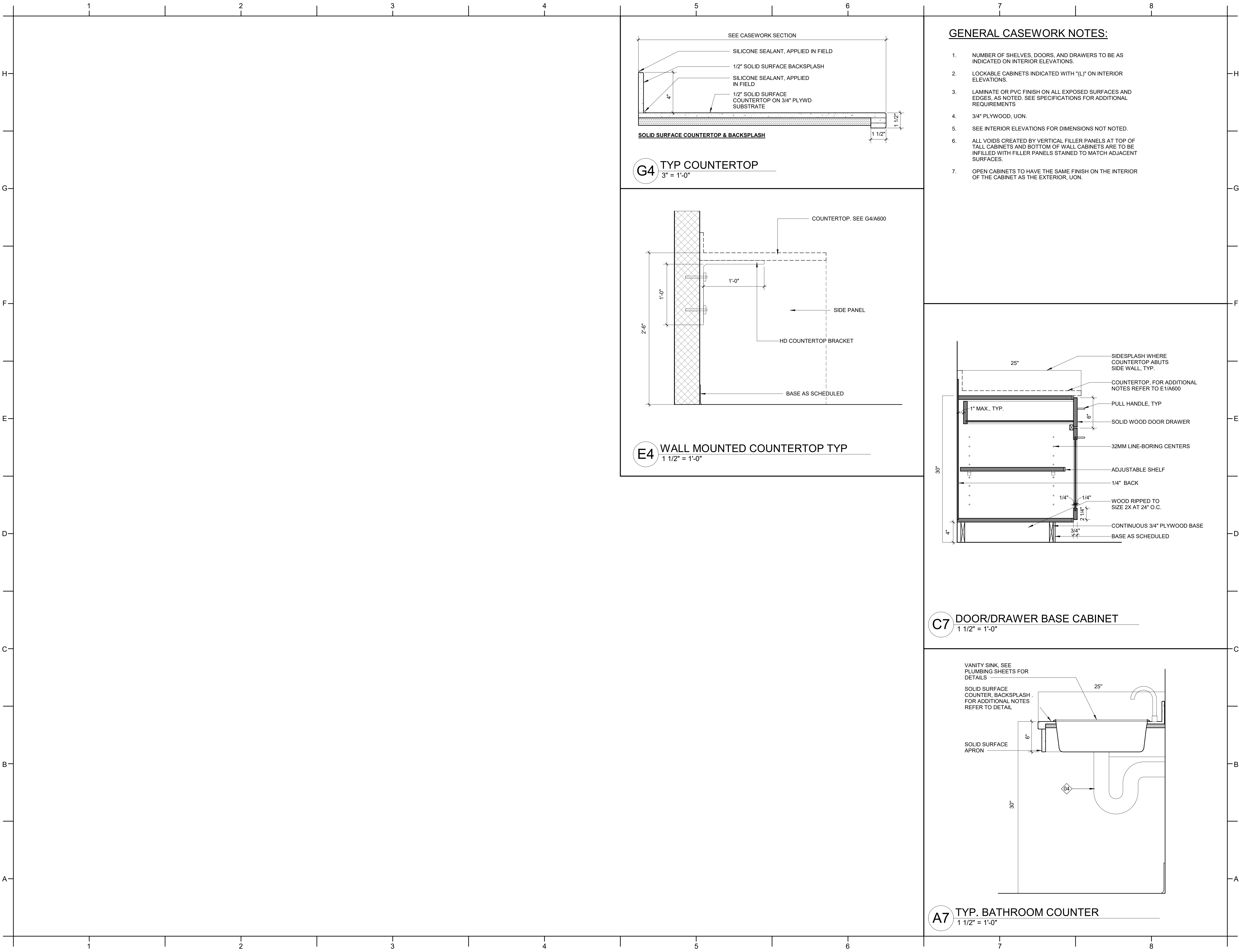
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SHEET TITLE  
ENLARGED STAIR  
PLANS AND DETAILS

**A412**





GENERAL CASEWORK NOTES:

1. NUMBER OF SHELVES, DOORS, AND DRAWERS TO BE AS INDICATED ON INTERIOR ELEVATIONS.
2. LOCKABLE CABINETS INDICATED WITH "L" ON INTERIOR ELEVATIONS.
3. LAMINATE OR PVC FINISH ON ALL EXPOSED SURFACES AND EDGES, AS NOTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
4. 3/4" PLYWOOD, UON.
5. SEE INTERIOR ELEVATIONS FOR DIMENSIONS NOT NOTED.
6. ALL VOIDS CREATED BY VERTICAL FILLER PANELS AT TOP OF TALL CABINETS AND BOTTOM OF WALL CABINETS ARE TO BE INFILLED WITH FILLER PANELS STAINED TO MATCH ADJACENT SURFACES.
7. OPEN CABINETS TO HAVE THE SAME FINISH ON THE INTERIOR OF THE CABINET AS THE EXTERIOR, UON.

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FARMVILLE, NC 27828

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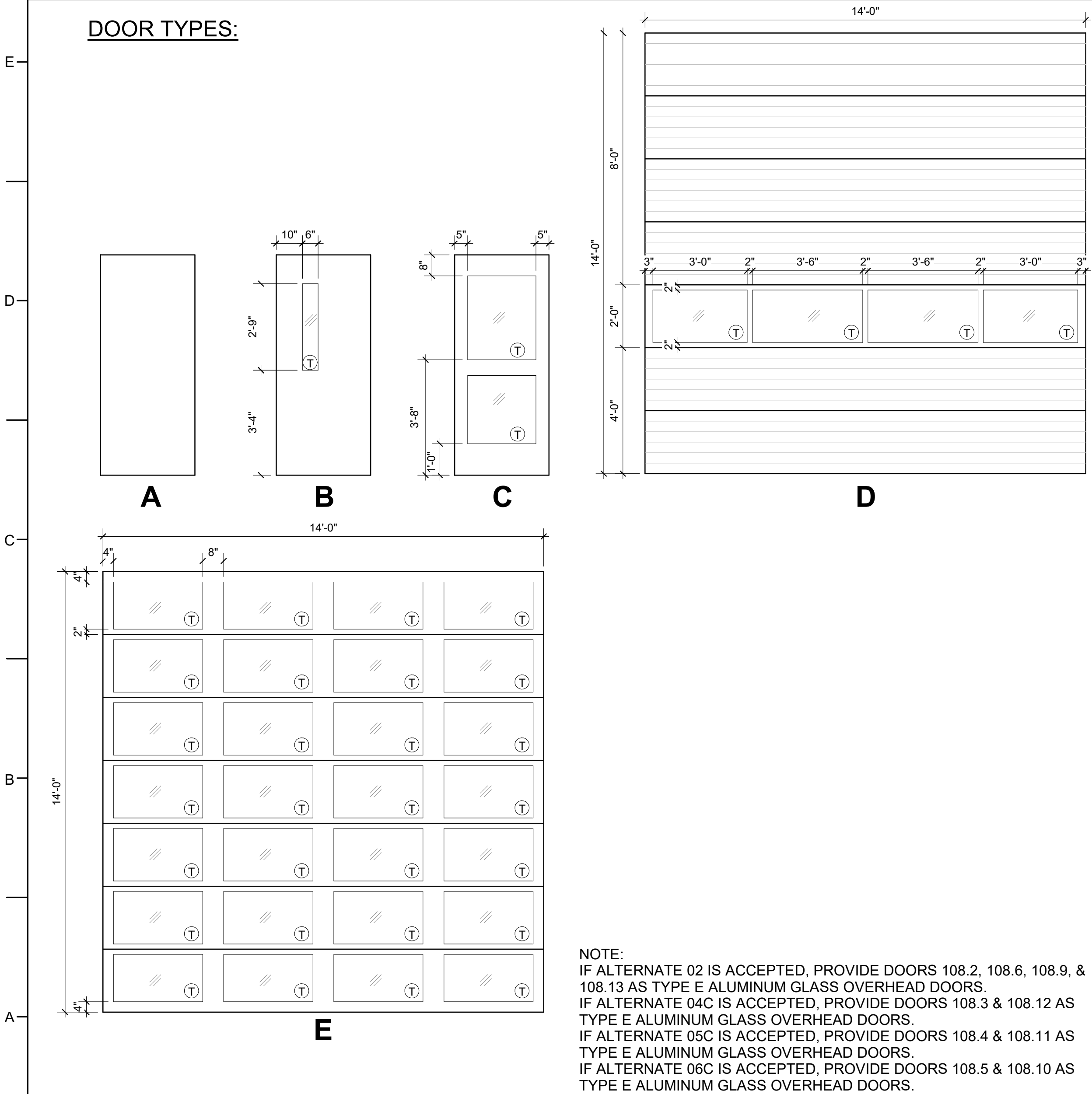
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SHEET TITLE  
CASEWORK  
DETAILS

**A600**



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**DOOR & FRAME GENERAL NOTES:**

- PAINT ALL HM FRAMES. PAINT ALL HM DOORS.
- ADJUST MASONRY TO PROVIDE A 3/8" JOINT AT EACH JAMB OF A DOOR FRAME OPENING.

**STOREFRONT SYMBOL LEGEND:**

- INDICATES GLAZING
- INDICATES TEMPERED GLAZING

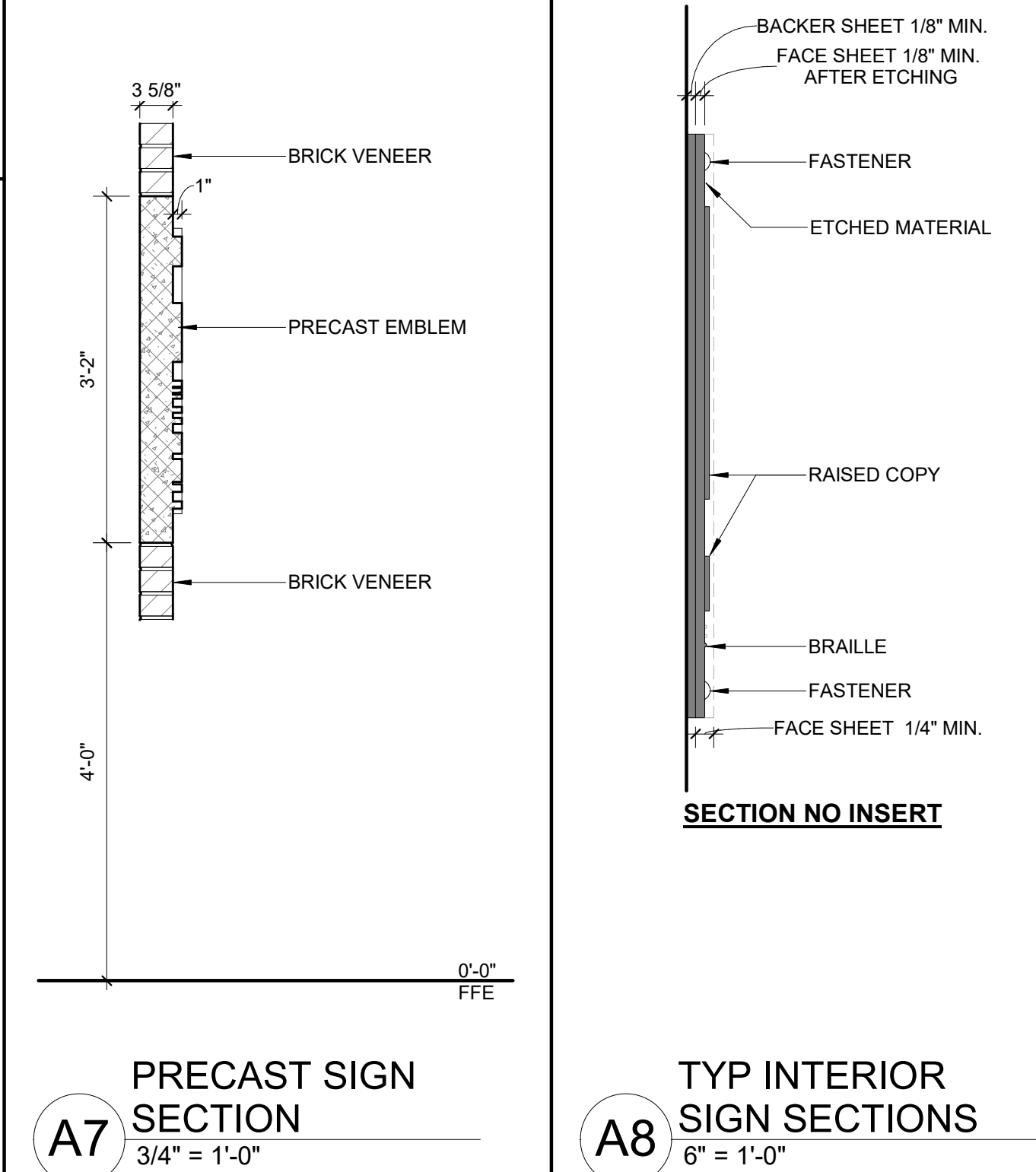
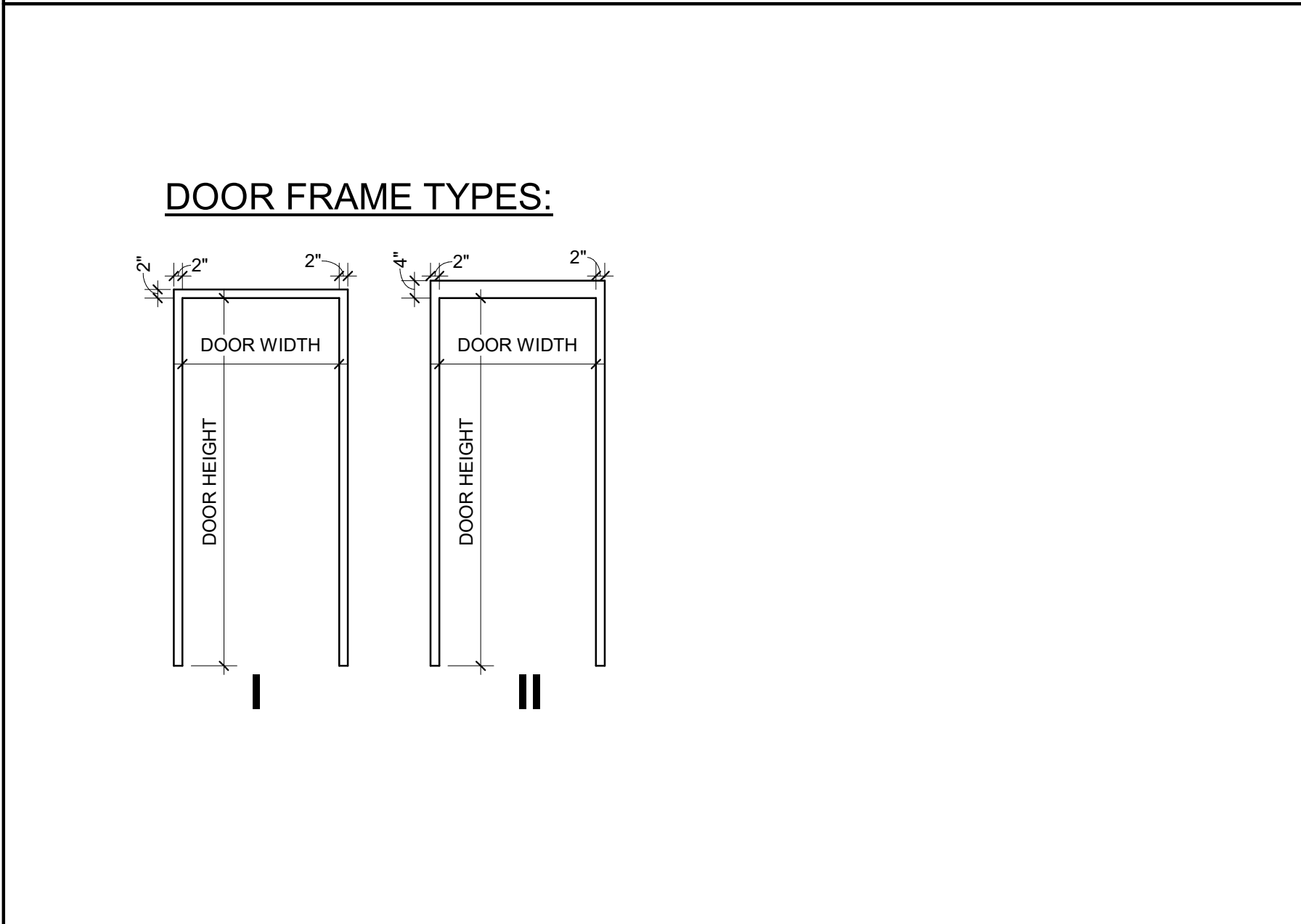
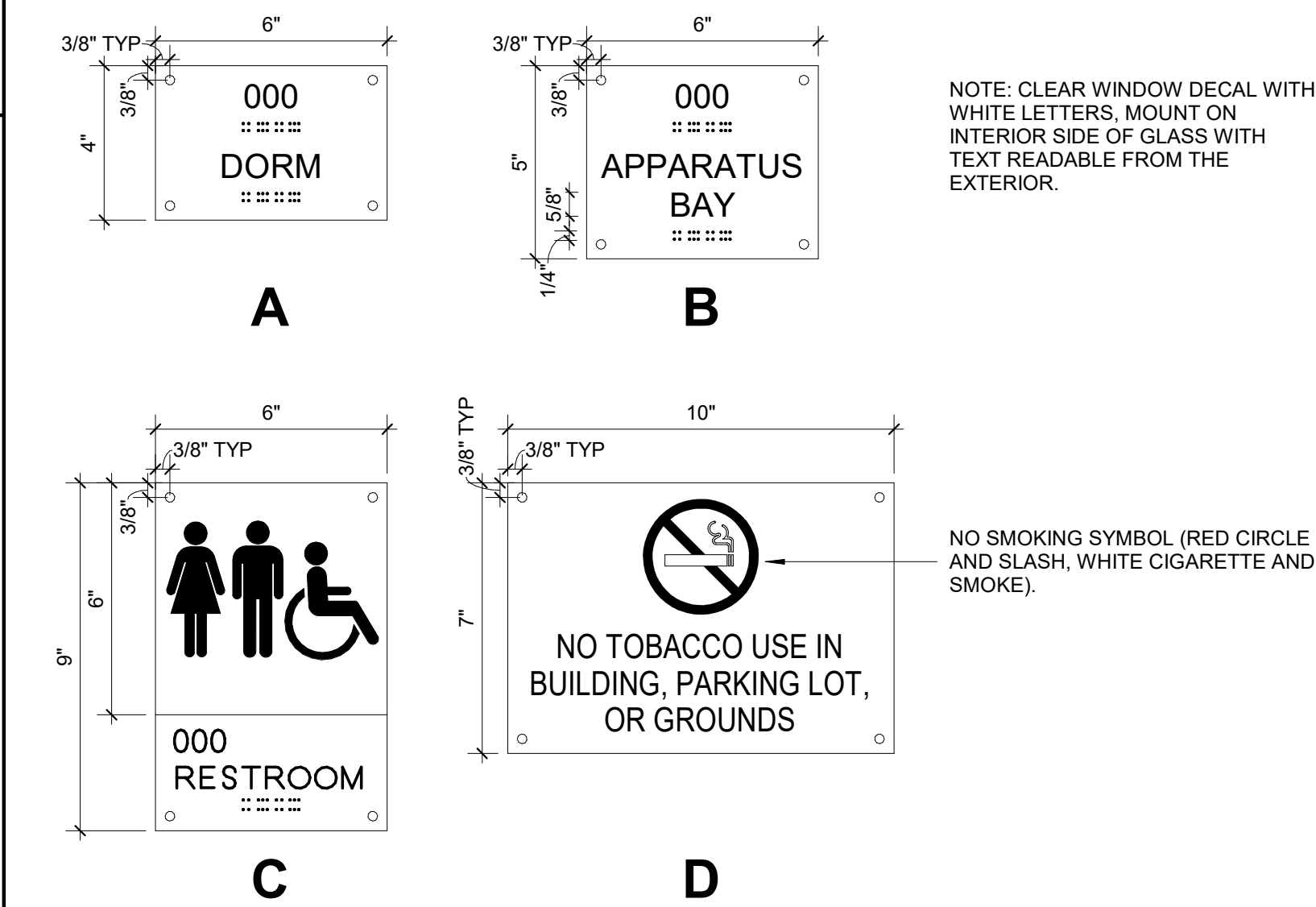
**STOREFRONT GENERAL NOTES:**

- ALL FACE FRAME WIDTH TO BE 2", UON.

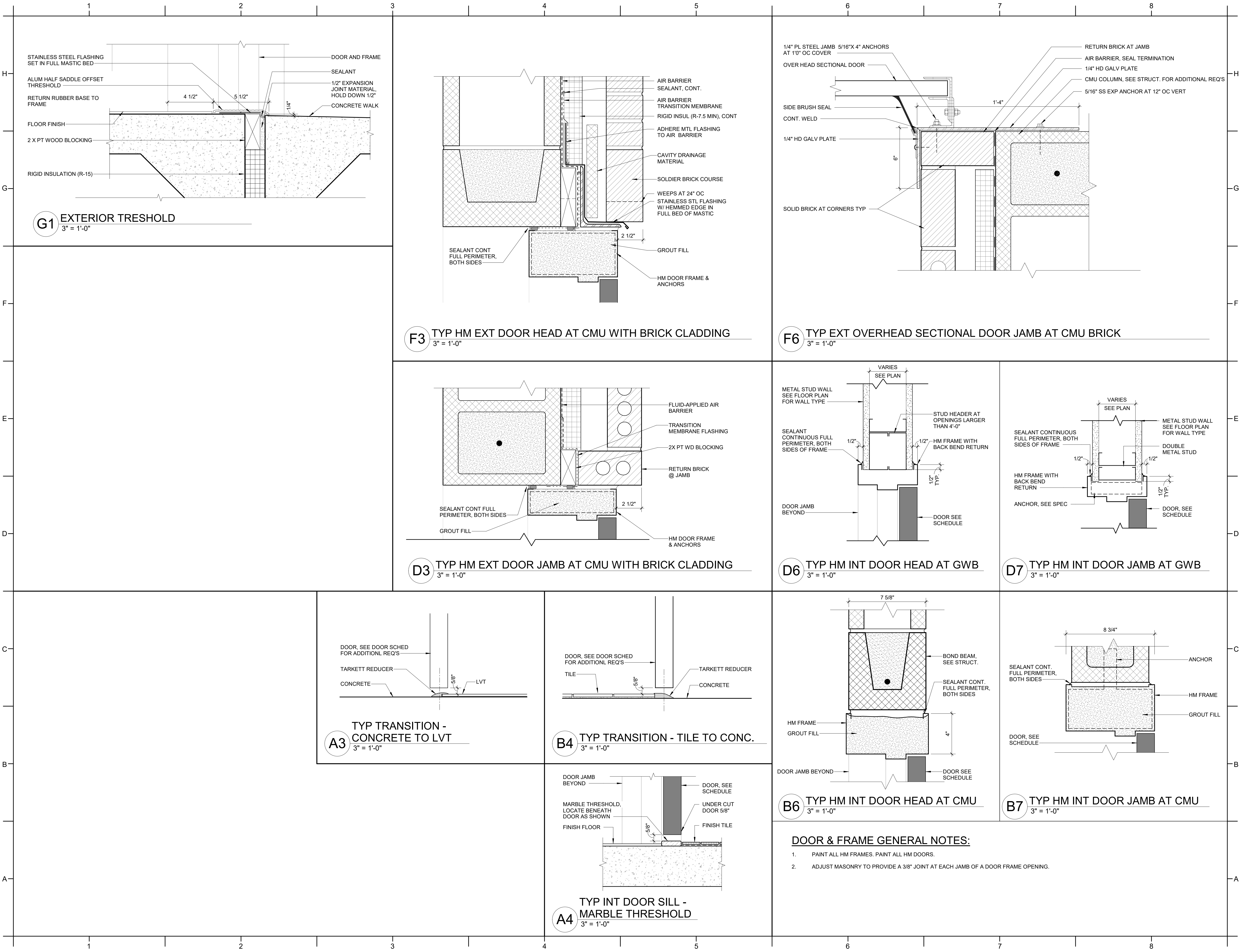
**INTERIOR SIGNAGE NOTES:**

- SEE INTERIOR FINISHES PLANS FOR SIGNAGE LOCATIONS NOT NOTED IN DOOR, FRAME, AND SIGNAGE SCHEDULE. ON FINISHES PLANS, "ST" DENOTES SIGN TYPE. FOR EXAMPLE, "ST-K" DENOTES SIGN TYPE K.
- REFERENCE DOOR SCHEDULE FOR SIGNAGE LOCATIONS.
- TEXT SHOWN ON SIGNS IS SAMPLE TEXT ONLY.
- SEE SECTION FOR TYPICAL NOTES.
- SEE A001 FOR SIGNAGE MOUNTING HEIGHTS.

**INTERIOR SIGN TYPES:**







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SEALS



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BID SET  
6/17/2025

SHEET TITLE  
DOOR DETAILS

**A701**



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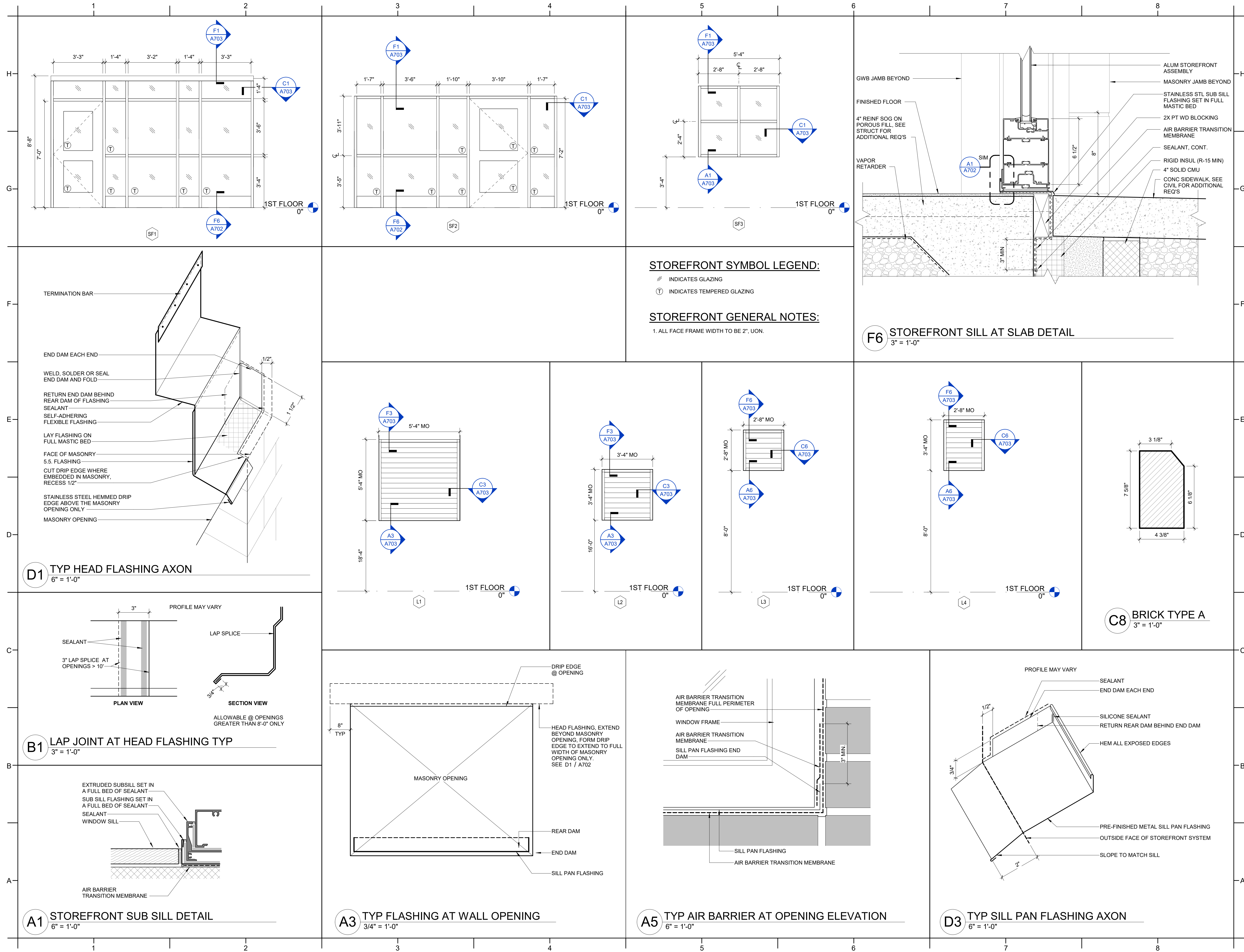
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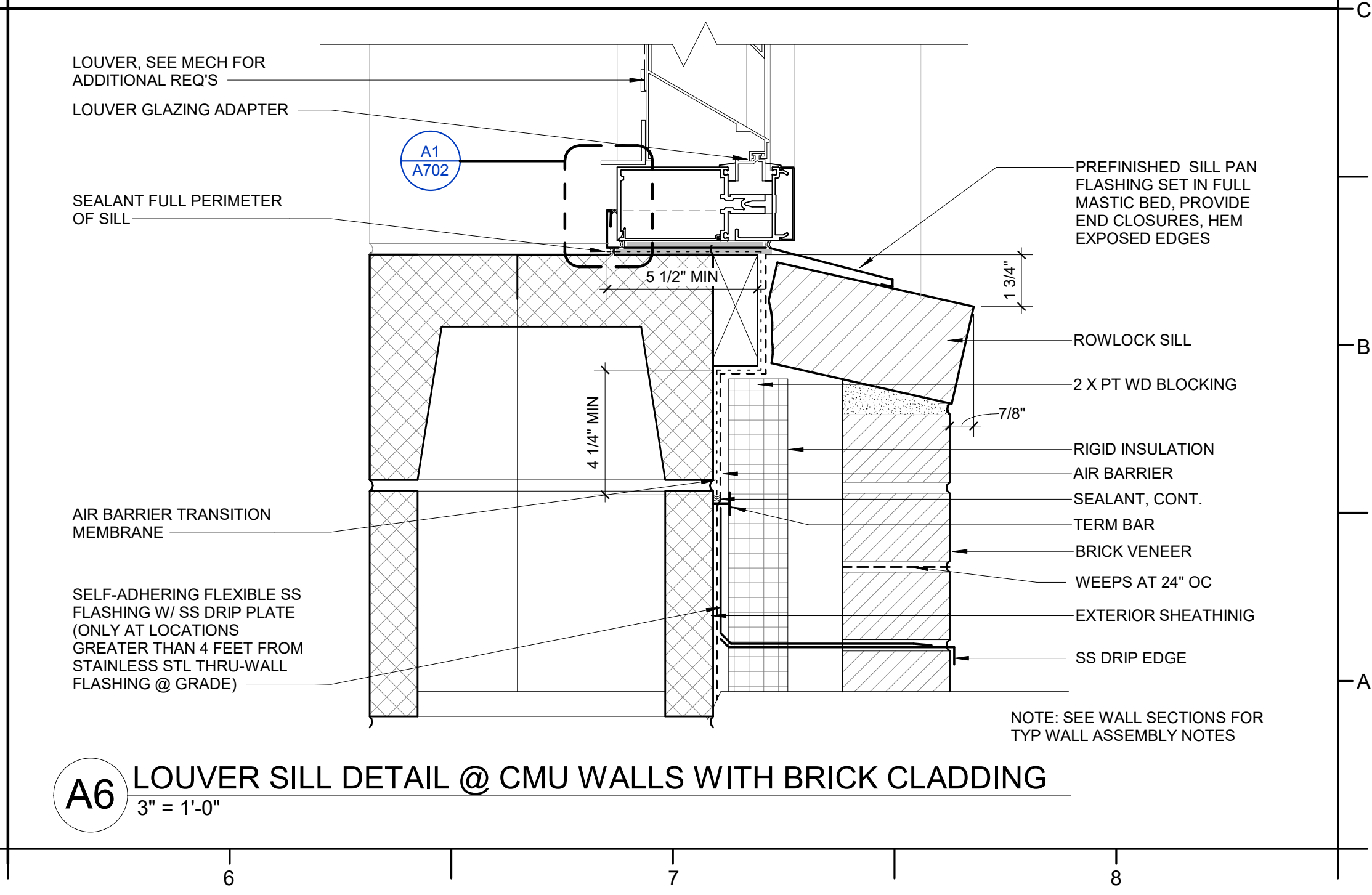
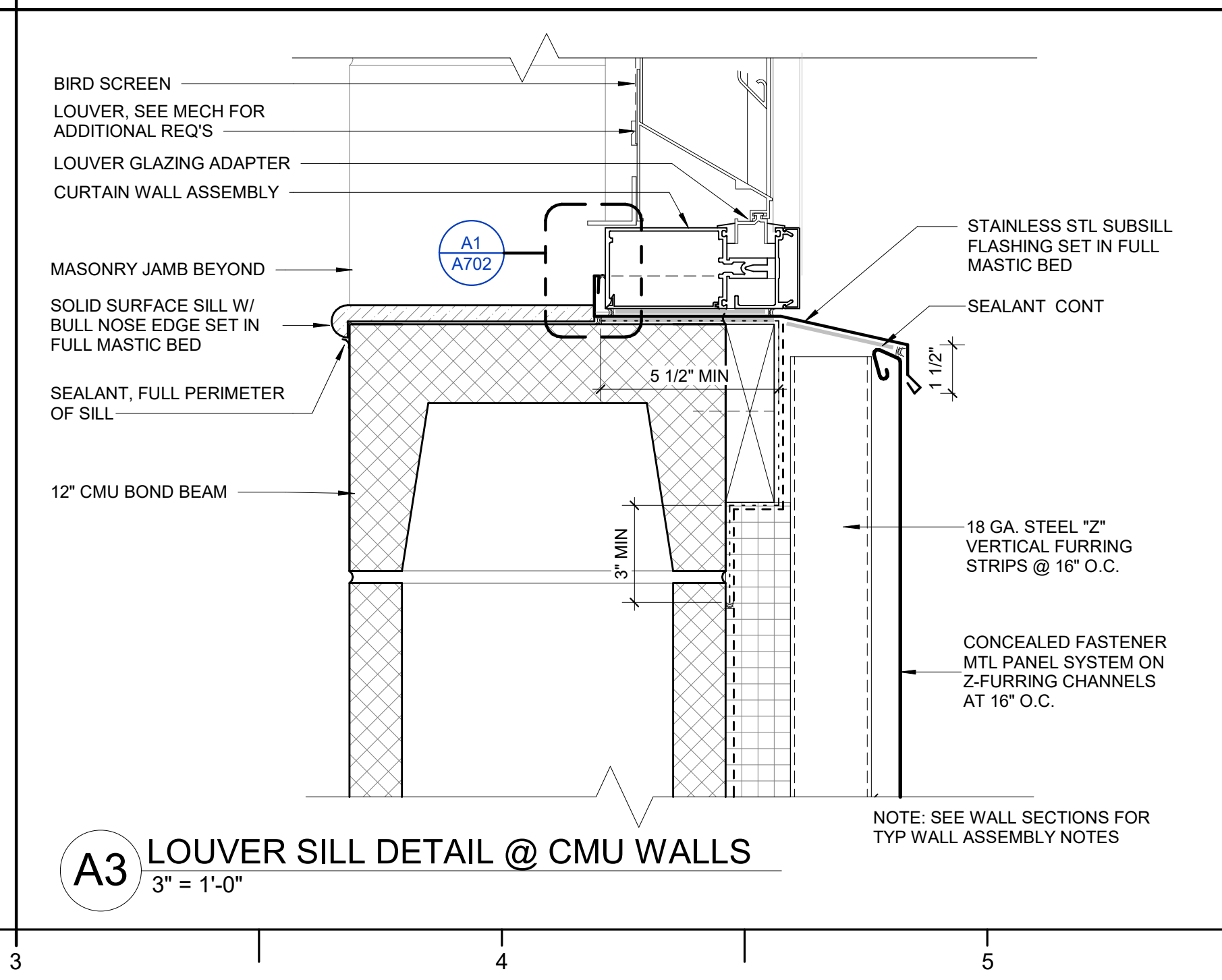
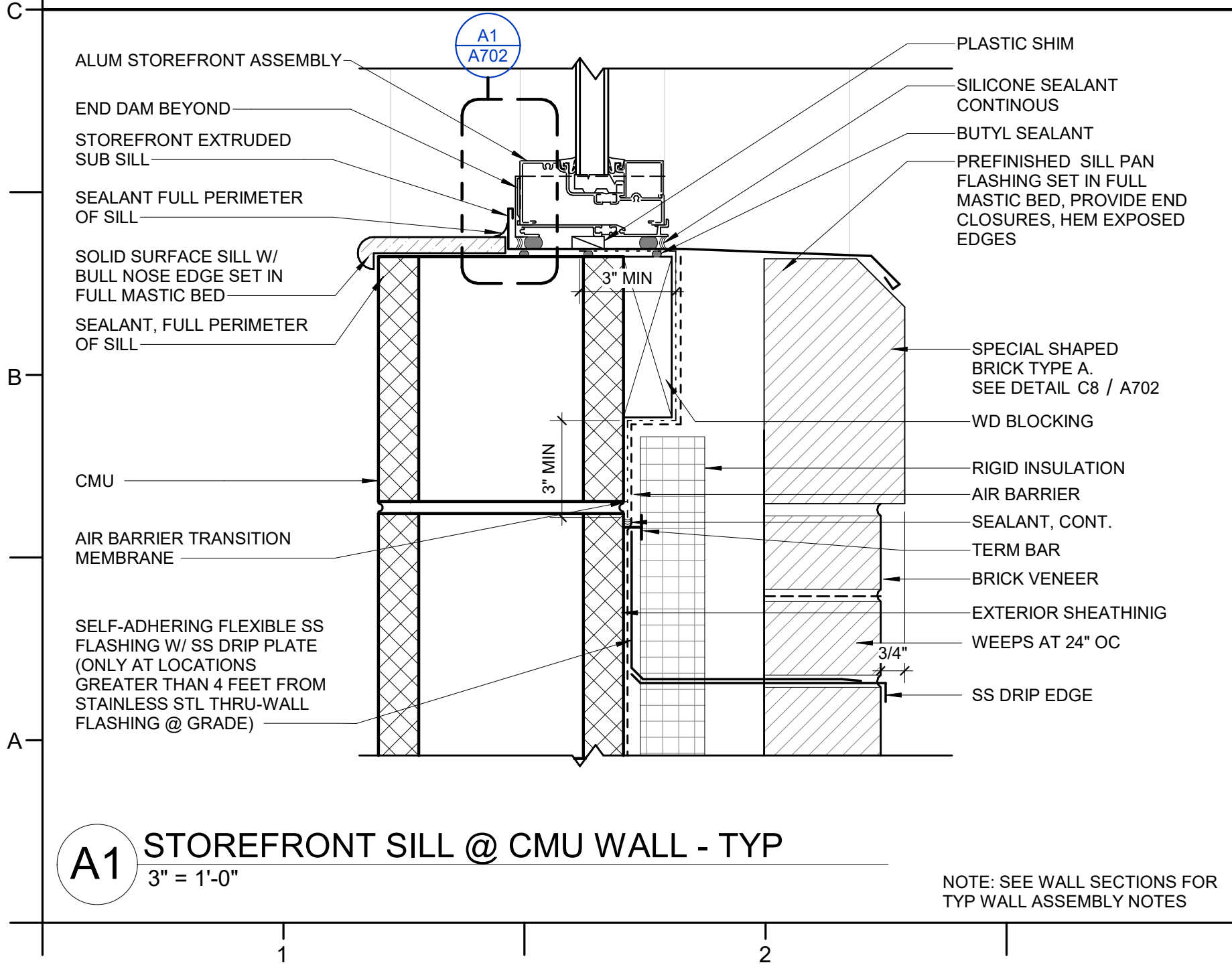
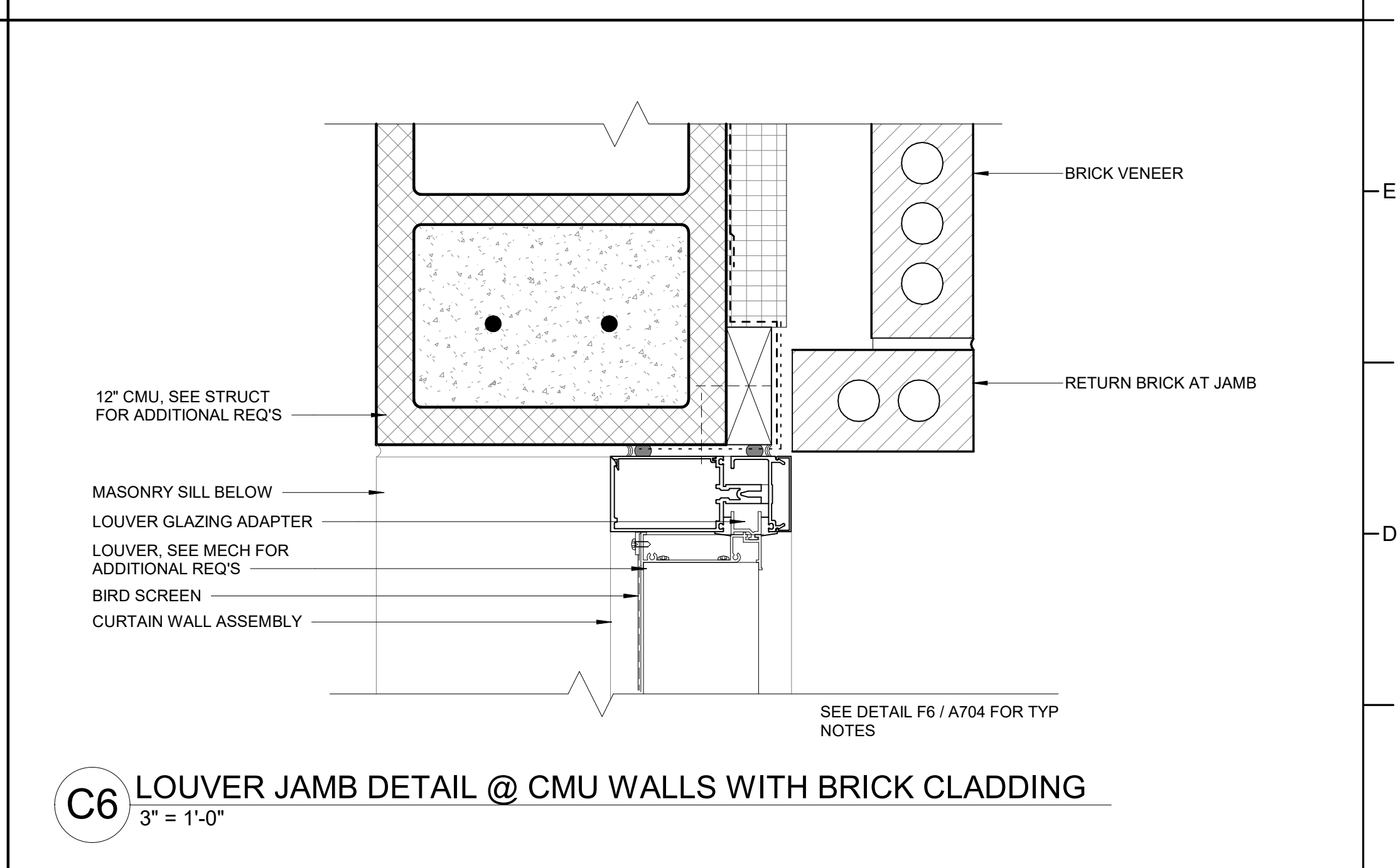
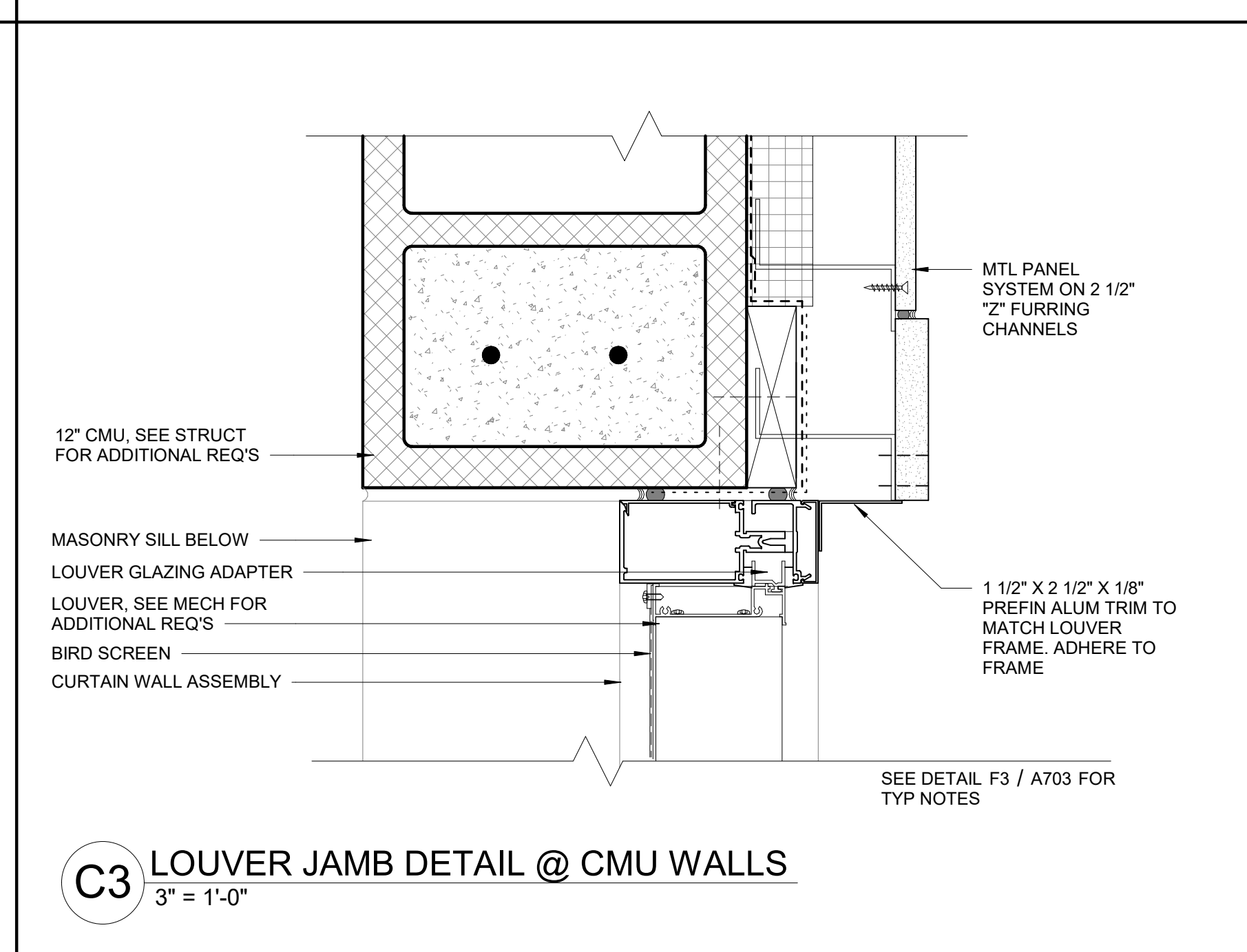
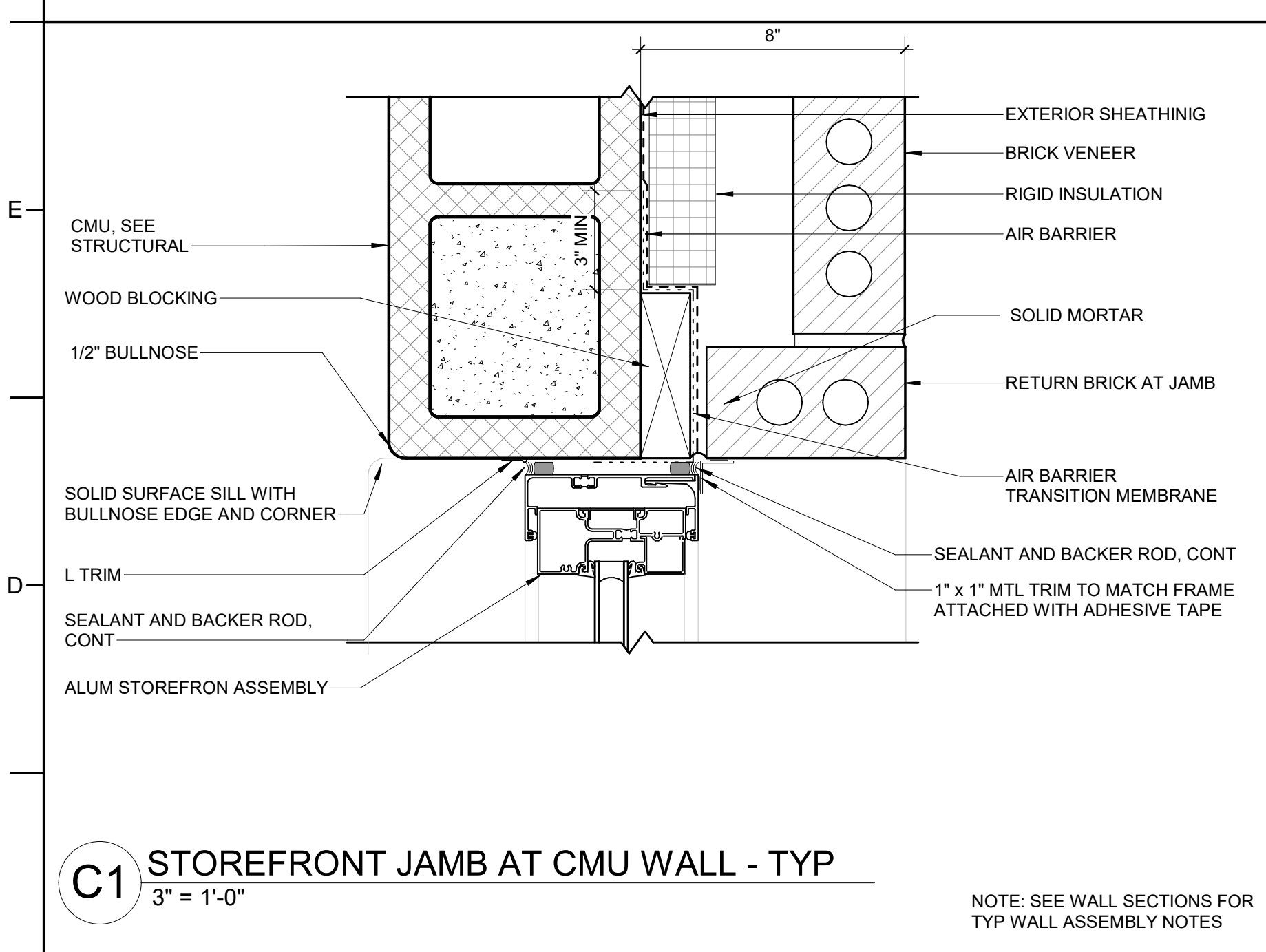
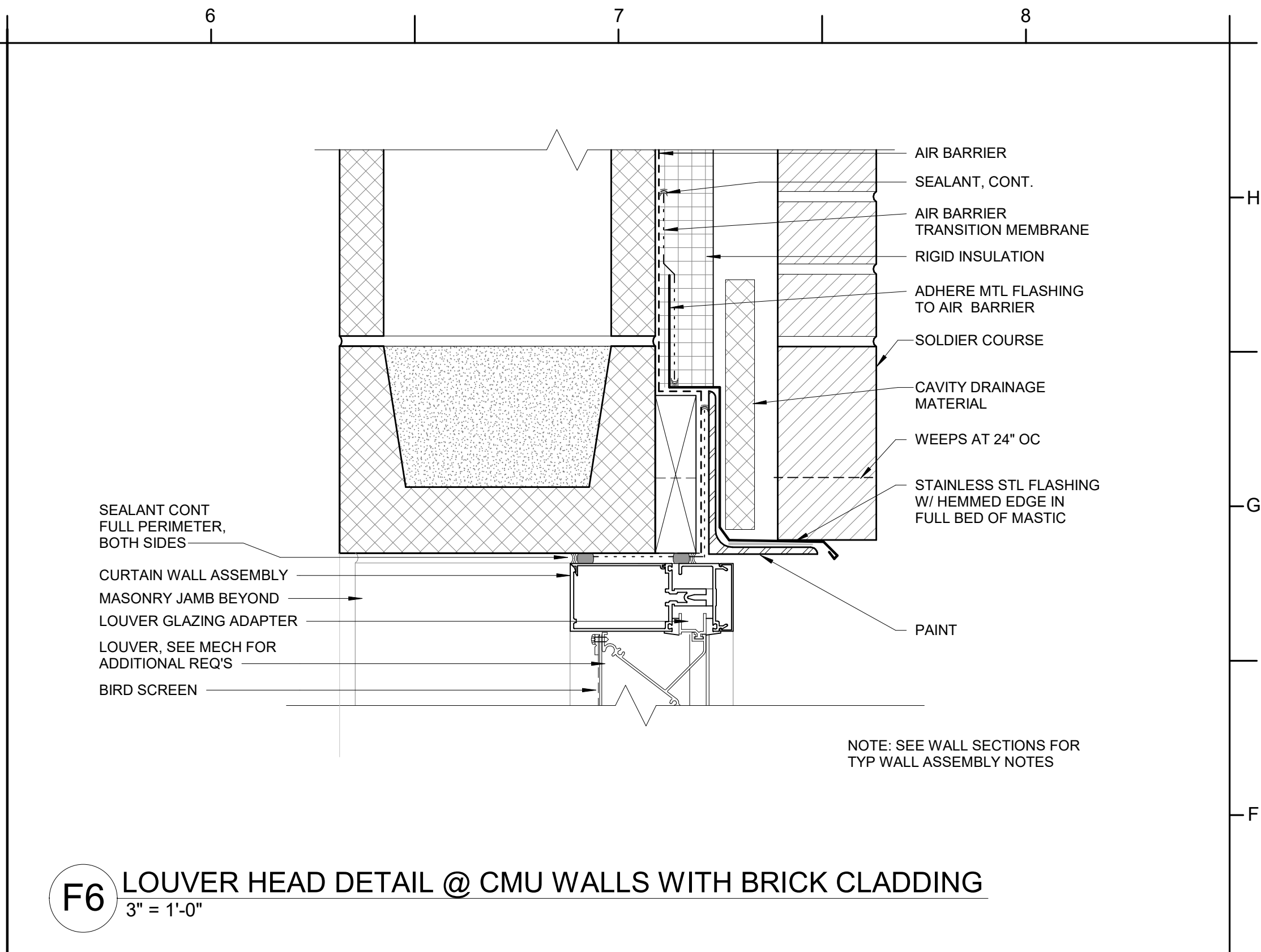
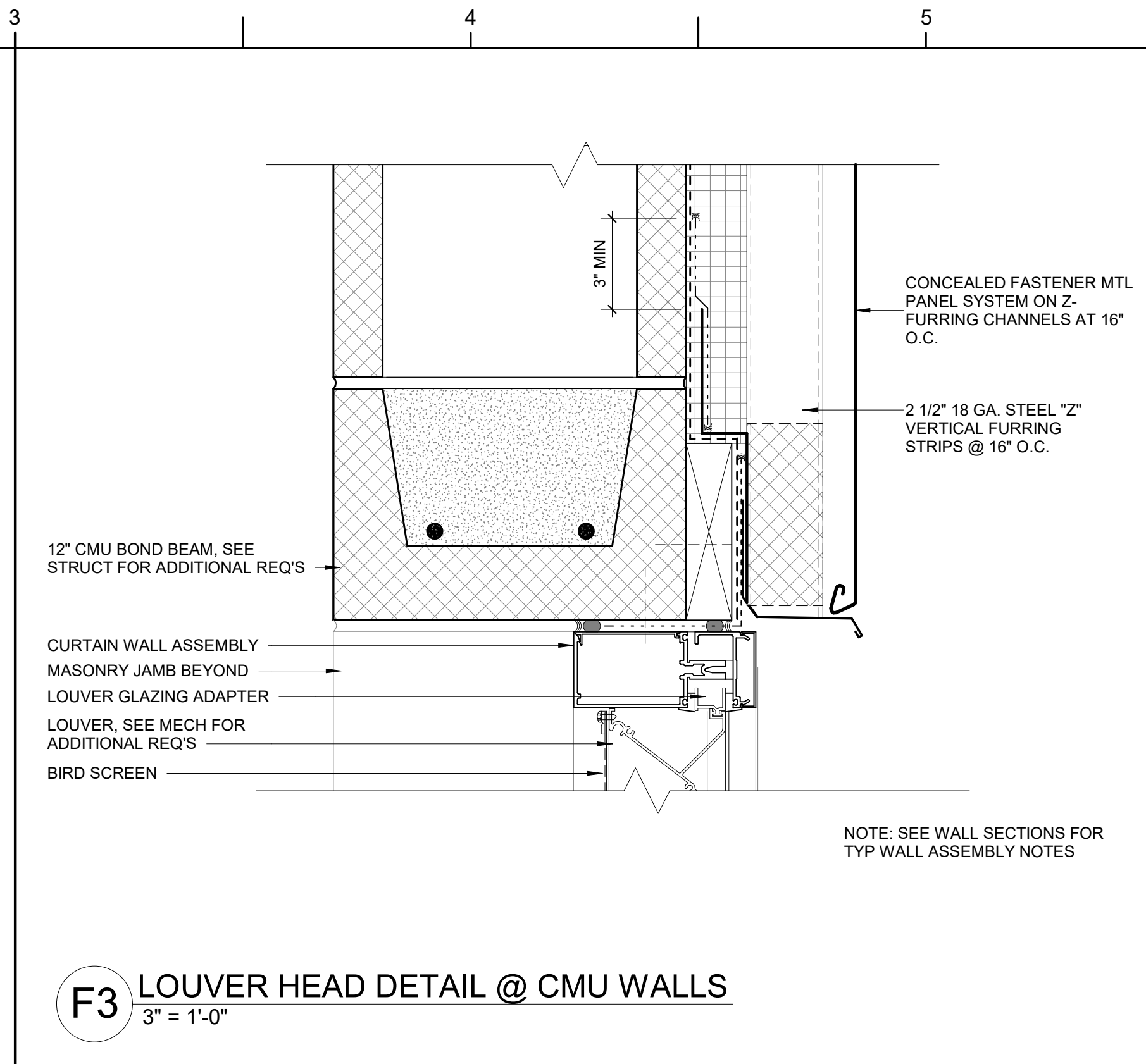
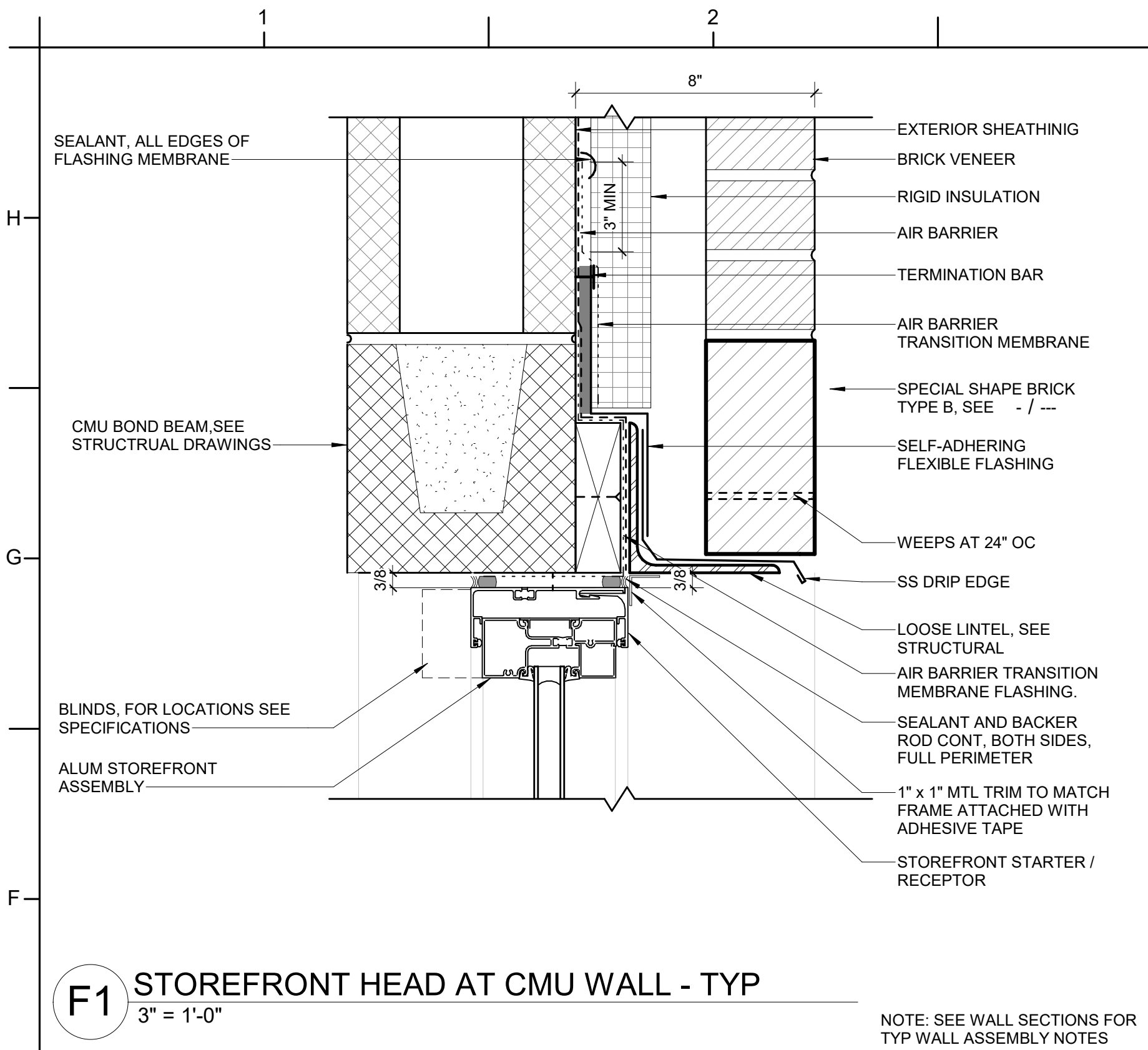
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FENESTRATION  
SCHEDULE, NOTES  
& DETAILS

**A702**







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**PROJECT INFORMATION**

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

**SEALS**

**DKA JOB NUMBER**  
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**REVISIONS**

NO.	DESCRIPTION	DATE

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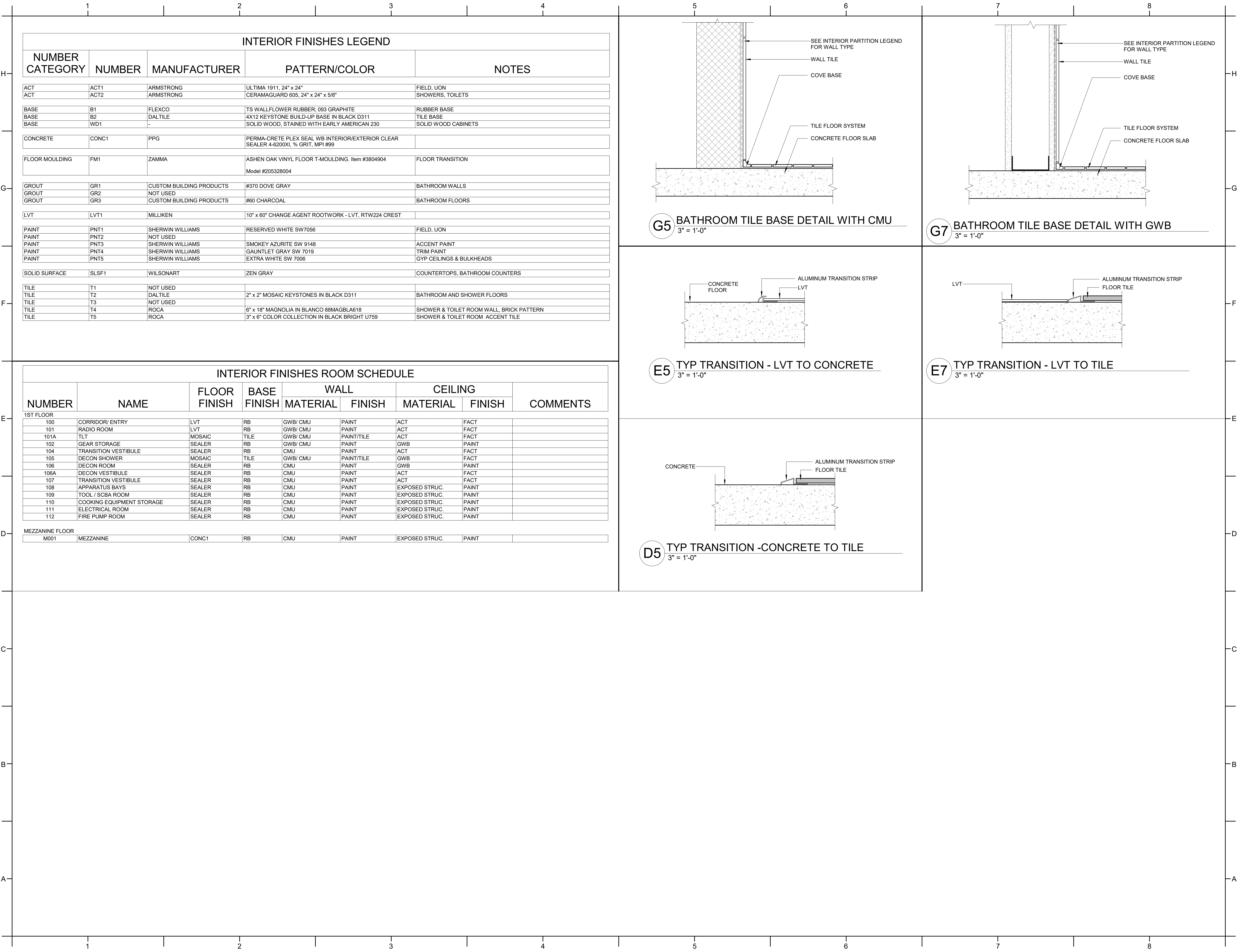
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DETAILS

**A703**





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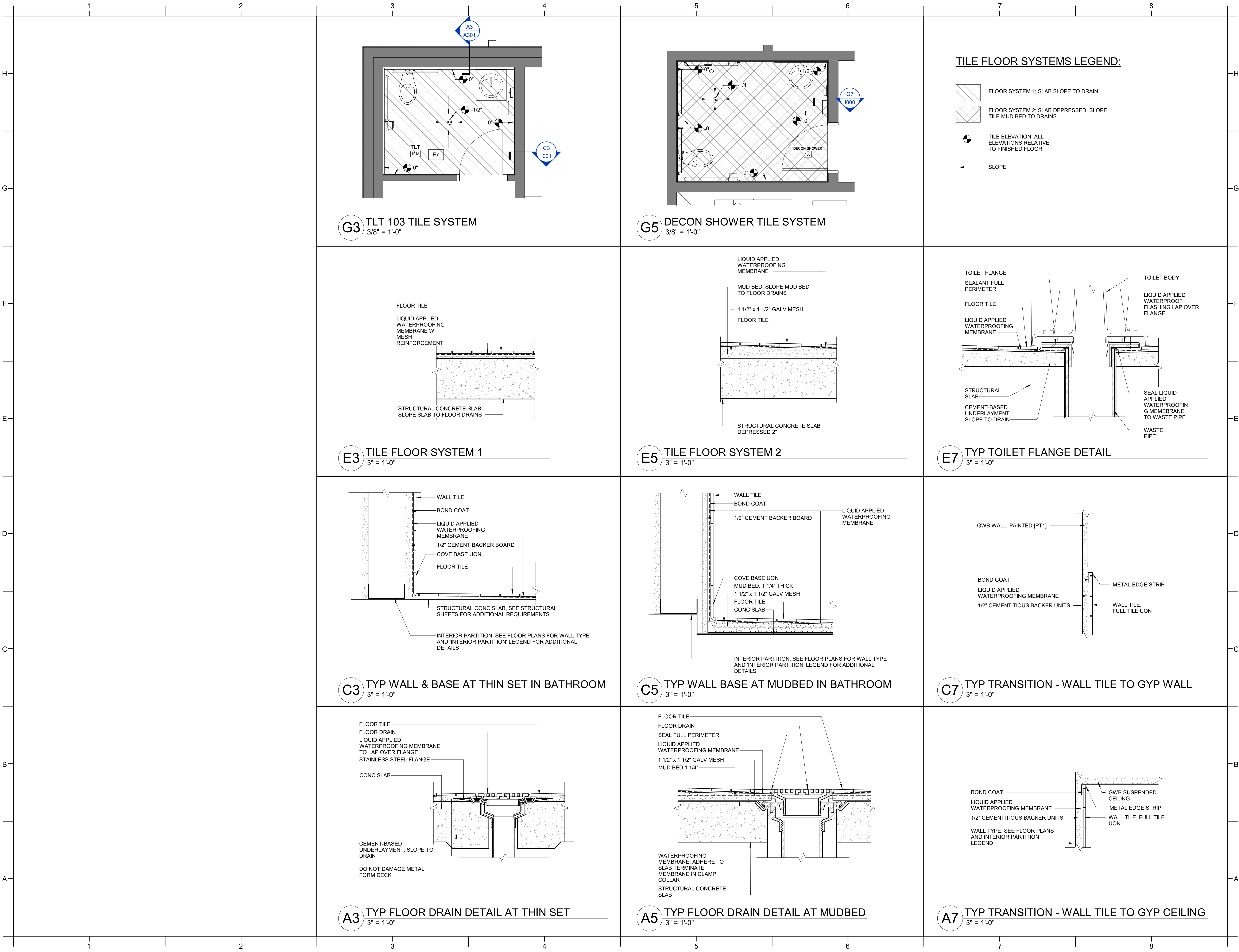
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SHEET TITLE  
FINISHES  
SCHEDULES &  
DETAILS

1000





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SHEET TITLE  
TILE SYSTEMS AND  
DETAILS

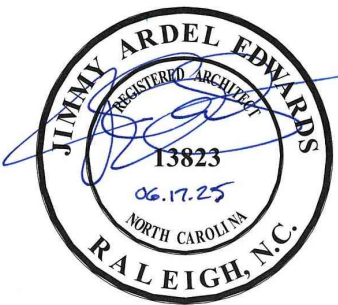
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SHEET TITLE  
1ST FLOOR  
FINISHES PLAN

I100

D1 1ST FLOOR - FINISHES PLAN  
1/8" = 1'-0"

FINISHES GENERAL NOTES:

- SEE FLOOR PLANS FOR WALL TYPES.
- SEE INTERIOR ELEVATIONS AND DETAILS FOR LOCATION OF CASEWORK AND WALL FINISH SELECTIONS NOT SHOWN ON PLAN.
- WHERE PAINT IS INDICATED ON LEGEND, PROVIDE THE FOLLOWING:  
FINISH LOCATION  
EGG-SHELL GWB WALLS, UON  
SEMI-GLOSS MASONRY WALLS, UON  
SEMI-GLOSS INTERIOR FRAMES  
SATIN GLOSS RAILINGS
- PAINT COLORS PROVIDED IN FINISHES LEGEND ARE FOR COLOR MATCH ONLY.
- INTERIOR FINISHES INDICATED BY AREA UON.
- INTERIOR FINISH ACCENTS INDICATED AT LOCATION BY SYMBOL, WITH LEADER DESIGNATION.
- FOR CEILING FINISH AND COLORS REFER TO REFELCTED CEILING PLANS.
- FOR INFORMATION ABOUT THRESHOLDS SEE DOOR SCHEDULE.
- PAINT ALL STAIR STRINGERS, GUARDRAILS, HANDRAILS, BRACKETS AND UNDERSIDE OF STAIRS THROUGHOUT ALL THREE STAIRS.

FINISHES PLAN NOTES:

- FOR FINISH SCHEDULE SEE I000.
- SEE A001 FOR GENERAL PLAN & PARTITION NOTES.
- REFER TO A002 FOR PARTITION CONSTRUCTION TYPE.
- TYPICAL ASSEMBLY & MOUNTING HEIGHTS SEE SHEET A001.
- SEE I000 THROUGH I001 FOR INTERIOR FINISHES LEGEND, SCHEDULES AND ADDITIONAL FINISHES REQUIREMENTS.

FINISHES KEY NOTES:

NOTE: NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLAN FOR KEYED ITEM LOCATIONS. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS.

- ① 6 INCH WIDE TRAFFIC LINES, COLOR TO MATCH BOLLARDS  
② METAL TRANSITIONS  
③ MARBLE THRESHOLDS

FINISHES KEY:

- LUXURY VINYL TILE  
SEALED CONCRETE  
CERAMIC TILE

FINISHES SYMBOL LEGEND

- FINISHES  
CPT FLOORING  
PNT WALL UON  
PNT BASE UON  
PNT ACCENT PAINT  
ST'A SIGN TYPE





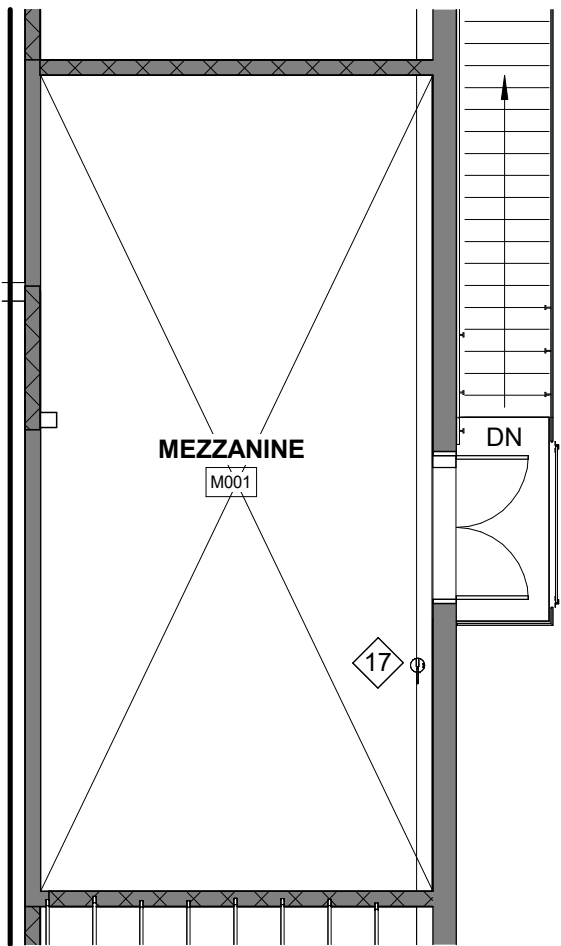
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HEADQUARTERS**  
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FAMRVILLE, NC 27828

JIMMY ARDEL EDWARDS  
DK  
v By: NK  
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## 17/2025

## FIRST FLOOR FURNITURE & EQUIPMENT PLAN

200



**C6** MEZZANINE FLOOR - FURNITURE PLAN  
1/8" = 1'-0"

NOTE: CONTRACTOR TO COORDINATE ALL FF&E ITEMS WITH  
OWNER PRIOR TO SCHEDULING DELIVERY AND INSTALLATION

43	AIR COMPRESSOR, OPCI
44	WORK TABLE BENCH, OPCI
45	TOOL BOX, OPCI
46	FLAMMABLE CABINET, OPCI
47	STAINLESS STEEL PREP TABLE, OPCI
48	UTILITY SINK, SEE PLUMBING DRAWINGS
49	SCULLERY SINK, SEE PLUMBING DRAWINGS
50	SCBA, OPCI



	1	2	3	4	5	6	7	8	
	GENERAL NOTES:		FOUNDATION NOTES:		CONCRETE MASONRY NOTES:		STRUCTURAL STEEL NOTES:		
H	<div>1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.</div> <div>2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.</div> <div>3. THE WORK OUTLINED IN SPECIFICATION SECTION 014100 IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS.</div> <div>4. THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.</div>		<div>1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED NOVEMBER 30, 2021.</div> <div>2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.</div> <div>3. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE SPECIAL INSPECTOR TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE SPECIAL INSPECTOR WHERE UNSATISFACTORY SOILS ARE PRESENT.</div> <div>4. NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.</div>		<div>1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) 530.</div> <div>2. CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C 90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT 28 DAYS.</div> <div>3. COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, fm, MUST BE 2,000 PSI AT 28 DAYS.</div> <div>4. MORTAR MUST BE TYPE M OR S AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.</div> <div>5. GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:<div><div>A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.</div><div>B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI, WITH AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.</div></div></div> <div>6. REINFORCING STEEL MUST COMPLY WITH ASTM A 615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.</div>		<div>1. STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.</div> <div>2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:<div><div>A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A 36, Fy = 36 KSI</div><div>B. STRUCTURAL STEEL W-SHAPES - ASTM A 992, Fy = 50 KSI</div><div>C. HOLLOW STRUCTURAL SECTIONS (HSS):<div><div>a. SQUARE AND RECTANGULAR - ASTM A 500, GRADE C, Fy = 50 KSI</div><div>D. ANCHOR RODS - ASTM F 1554, GRADE 36</div><div>E. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)</div><div>F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)</div><div>G. WASHERS - ASTM F 436</div><div>H. NUTS - ASTM A 563</div></div></div></div><div>3. UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.</div><div>4. UNLESS OTHERWISE NOTED, BEAM CONNECTIONS MUST BE AISC "SIMPLE SHEAR CONNECTIONS" WITH ASTM A325 BOLTS DESIGNED FOR ONE HALF THE MAXIMUM TOTAL UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS GIVEN IN TABLE 3-6 OF THE "STEEL CONSTRUCTION MANUAL."</div><div>5. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING.</div><div>6. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS OF "DELEGATED DESIGN" CONNECTIONS.</div><div>7. FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.</div></div>		
G									G
F	<div>6. PRIOR TO ISSUING THE STRUCTURAL DRAWINGS FOR ANY PURPOSE, AUTHORIZATION MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER OF RECORD. WHEN AUTHORIZED, THE DOCUMENTS THAT ARE RELEASED MUST BE CLEARLY IDENTIFIED WITH THE AUTHORIZED PURPOSE AND SHALL INCLUDE THE DATE OF RELEASE.</div> <div>7. DESIGN CRITERIA:<div><div>CLASSIFICATION OF BUILDING RISK CATEGORY:..... IV</div><div>TOTAL SUPERIMPOSED ROOF DEAD LOAD - UNIFORM:..... 20 PSF</div><div>TOTAL SUPERIMPOSED FLOOR DEAD LOADS - UNIFORM:..... 20 PSF</div><div>LIVE LOADS - UNIFORM:<div><div>SLAB ON GRADE, TYP UON..... 100 PSF</div><div>SLAB ON GRADE (APPARATUS BAYS)..... 250 PSF</div><div>MEZZANINE..... 125 PSF</div><div>ROOF..... 20 PSF</div><div>APPARATUS BAY BOTTOM CHORD..... 20 PSF</div></div></div><div>LIVE LOADS - CONCENTRATED:<div><div>APPARATUS BAY SLAB ON GRADE..... 15,500 LB</div><div>APPARATUS BAY TRUSS BOTTOM CHORD..... REF 2/S105</div><div>MECHINACAL..... 2,000 LB</div></div><div>SNOW LOADS:<div><div>GROUND SNOW LOAD..... 10 PSF</div><div>SLOPED ROOF LOAD..... 12 PSF</div><div>IMPORTANCE FACTOR (Is)..... 1.2</div><div>THERMAL FACTOR (Ct)..... 1.1</div><div>EXPOSURE FACTOR (Ce)..... 1.0</div></div><div>WIND LOADS:<div><div>ULTIMATE DESIGN WIND SPEED (VULT)..... 128 MPH</div><div>NOMINAL DESIGN (VASD) WIND SPEED..... 99 MPH</div><div>EXPOSURE CATEGORY..... C</div><div>INTERNAL PRESSURE COEFFICIENT..... ±0.18</div><div>COMPONENT AND CLADDING PRESSURES:<div><div>WALLS, ZONE 5 (10 SF)..... 56 PSF</div><div>ROOF, ZONE 3 (10 SF)..... 104 PSF</div></div></div><div>ULTIMATE WIND BASE SHEARS (FOR MWFRS):<div><div>Vx..... 95 KIPS</div><div>Vy..... 70 KIPS</div></div></div><div>SEISMIC LOADS:<div><div>SITE CLASSIFICATION..... D</div><div>SEISMIC DESIGN CATEGORY..... C</div><div>IMPORTANCE FACTOR (IE)..... 1.5</div><div>SPECTRAL RESPONSE ACCELERATIONS:<div><div>Ss..... 0.129..... S1..... 0.065</div><div>SMS..... 0.207..... SM1..... 0.156</div><div>Sps..... 0.138..... SPD1..... 0.104</div></div><div>ANALYSIS PROCEDURE..... EQUIVALENT LATERAL FORCE</div><div>LATERAL FORCE RESISTING SYSTEM..... ORDINARY REINFORCED MASONRY SHEAR WALLS</div><div>RESPONSE MODIFICATION COEFFICIENT (R)..... 2.0</div><div>SEISMIC RESPONSE COEFFICIENT (Cs)..... 0.1</div><div>ULTIMATE SEISMIC BASE SHEAR (V)..... 188 KIPS</div></div><div>LATERAL DESIGN CONTROL CONTROLLING LATERAL LOADS..... SEISMIC</div></div></div></div></div></div></div></div></div>		<div>2. CONCRETE MUST BE NORMAL WEIGHT AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:<div><div>A. SLAB-ON-GRADE..... 4,000 PSI</div><div>B. SLAB-ON-GRADE (APPARATUS BAY)..... 4,500 PSI</div><div>C. SUPPORTED FLOOR SLABS..... 4,000 PSI</div><div>D. FOOTINGS..... 3,000 PSI</div><div>E. EXTERIOR CONCRETE..... 4,500 PSI (A/E)</div><div>F. ALL OTHER CONCRETE..... 4,000 PSI</div></div></div> <div>3. REINFORCING MATERIALS MUST BE AS FOLLOWS:<div><div>A. REINFORCING BARS - ASTM A 615, GRADE 60, DEFORMED.</div><div>B. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.</div></div></div> <div>4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.</div> <div>5. CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.</div> <div>6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.</div>		<div>7. ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.</div> <div>8. ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."</div> <div>9. PROVIDE REINFORCING BARS OF THE GIVEN SIZE AND SPACING SHOWN. LAP CONTINUOUS REINFORCING STEEL 64 BAR DIAMETERS UNLESS OTHERWISE NOTED.</div> <div>10. ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #4 VERTICAL BARS AT 40 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED. ALL NON-BEARING MASONRY WALLS MUST BE BRACED PER "TYPICAL NON-BEARING MASONRY PARTITION DETAILS".</div> <div>11. PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS, UON.</div> <div>12. PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.</div> <div>13. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. BOND BEAM SHALL BE PROVIDED AT 8'-0" ON CENTER VERTICAL, AT EACH FLOOR LEVEL AND AT TOP OF WALL. MINIMUM SEE SECTIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS AT THE TOP OF WALLS.</div>				
E									E
D									D
C									C
B									B
A									A
	1	2	3	4	5	6	7	8	



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PROJECT INFORMATION

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01"=1'-0"

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PROJECT #R20-236



DKA JOB NUMBER

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SHEET TITLE

GENERAL NOTES

S001



	1	2	3	4	5	6	7	8	
H	<div>STEEL JOIST NOTES:</div> <div>1. STEEL JOISTS MUST BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.</div> <div>2. STEEL JOISTS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS WHICH MUST BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED.</div> <div>3. JOIST BRIDGING MUST CONFORM TO SJI SPECIFICATIONS, INCLUDING BRIDGING REQUIRED FOR JOISTS SUBJECTED TO UPLIFT LOADS. PROVIDE CROSS-BRIDGING AT ENDS OF BRIDGING LINES AND CHANGES IN JOIST DEPTHS AND AT ROLLED STEEL SHAPES RUNNING PARALLEL TO JOISTS. BRIDGING SHOWN MUST BE PROVIDED, IN ADDITION TO THE REQUIRED STANDARD BRIDGING. ENDS OF ALL BRIDGING LINES MUST BE ANCHORED TO WALLS OR BEAMS.</div> <div>4. ROOF JOISTS MUST BE DESIGNED FOR A NET UPLIFT LOAD (LRFD) OR (ULTIMATE) OF 40 PSF.</div> <div>5. ALL JOISTS MUST BE DESIGNED FOR A CONCENTRATED LOAD OF 300 LBS. HUNG FROM THE JOIST TOP OR BOTTOM CHORD AT ANY POINT ALONG THE SPAN. REFERENCE STRUCTURAL PLANS AND ARCHTECTUAL DRAWINGS FOR FEATURES REQUIRING ADDITIONAL LOADING TO BE CONSIDERED IN DESIGN.</div> <div>6. PERMANENT SUSPENDED LOADS MUST NOT BE SUPPORTED BY JOIST BRIDGING.</div> <div>7. COMPLY WITH OSHA SAFETY STANDARDS FOR THE ERECTION OF STEEL JOISTS.</div> <div>8. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA FOR THE DESIGN OF SPECIAL JOISTS TO COMPLY WITH SPECIFIC LOADING REQUIREMENTS.</div>								
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COLD-FORMED METAL FRAMING AND PREFABRICATED COLD-FORMED METAL TRUSS NOTES:

1. COLD-FORMED METAL FRAMING AND PREFABRICATED COLD-FORMED METAL TRUSSES MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AIS) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" AND "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN", WITH SUPPLEMENT 2, DATED 2008.
2. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF COLD-FORMED METAL FRAMING AND PREFABRICATED COLD FORMED METAL TRUSSES. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE CONNECTIONS, SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS AND CONSTRUCTION SEQUENCE REQUIRED FOR PROPER AND SAFE INSTALLATION. INCLUDE ALL TRUSS SPLICE DETAILS AND TRUSS TO TRUSS CONNECTION DETAILS. SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO MEMBER LOADS MUST BE CONSIDERED IN THE DESIGN.
3. COLD-FORMED METAL FRAMING MEMBERS MUST CONFORM TO ASTM C 955, AND BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A 653 AND ASTM C 955 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL AND THINNER MEMBERS AND 50 KSI FOR ALL OTHER MEMBERS.
4. MEMBER SECTION PROPERTIES MUST CONFORM TO PART "I" OF THE "COLD-FORMED STEEL DESIGN MANUAL."
5. PROVIDE BRIDGING LINES AT 4'-0" MAXIMUM ON CENTER IN ALL WALLS UNLESS OTHERWISE INDICATED. BRIDGING MUST BE FULLY INSTALLED AND ANCHORED AT ENDS BEFORE SUPERIMPOSING LOADS ONTO THE STUDS. BRIDGING SHALL BE ATTACH TO CMU WALL AND STEEL BEAM AT EDGES OF ROOF.
6. PROVIDE TRUSS HOLD DOWN ANCHORS CAPABLE OF RESISTING CALCULATED REACTIONS. PROVIDE ENGINEERING DATA AND CONNECTION DETAILS FOR HOLD-DOWN ANCHORS WITH SHOP DRAWING SUBMITTAL.
7. COLD-FORMED METAL TRUSS DESIGN LOADS MUST BE AS INDICATED IN THE "GENERAL NOTES" AND AS FOLLOWS:

1. TOP CHORD DEAD LOAD: 10 PSF (PLUS ADDITIONAL 5 PSF AT SUPERIMPOSED ROOF FRAMING AREAS)

2. WIND LOAD: WHEN CALCULATING NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 6 PSF ON TOP CHORD AND 0 PSF ON BOTTOM CHORD.

3. BOTTOM CHORD DEAD LOAD: 10 PSF
8. PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH IN LGSEA TECHNICAL NOTE 551d, "DESIGN GUIDE FOR CONSTRUCTION BRACING OF COLD-FORMED STEEL TRUSSES" AND LGSEA TECHNICAL NOTE 551e, "DESIGN GUIDE FOR PERMANENT BRACING OF COLD-FORMED STEEL TRUSSES" MUST BE CONSIDERED AS MINIMUM REQUIREMENTS.
9. ALL CONNECTION HARDWARE FOR TRUSS-TO-TRUSS CONNECTIONS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS MUST BE SUPPLIED BY THE TRUSS MANUFACTURER.
10. FOR ADJACENT TRUSSES WHERE THE WEB CONFIGURATION IS CAPABLE OF CONTAINING A RECTANGLE 42 INCHES HIGH BY 24 INCHES WIDE OR GREATER BETWEEN THE TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER, SUCH AREAS MUST HAVE THE BOTTOM CHORD DESIGNED FOR A LIVE LOAD OF 20 PSF IN ADDITION TO ANY OTHER LOADS SHOWN.

POST-INSTALLED ANCHOR NOTES:

1. ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC, AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:

1. ANCHORAGE TO CONCRETE

1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

1. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40U) WITH STEEL THREADED ROD PER ICC ESR-3187.

2. SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

1. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.

2. REBAR DOWELING INTO CONCRETE

1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

1. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.

3. ANCHORAGE TO SOLID GROUTED MASONRY

1. ADHESIVE ANCHORS USE:

1. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR 4143.

2. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.

2. MECHANICAL ANCHORS USE:

1. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
2. ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.
7. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

SPECIALTY STRUCTURAL ELEMENTS:

1. THE FOLLOWING BUILDING ELEMENTS REQUIRE DELEGATED DESIGN AND ENGINEERING BY A SPECIALTY STRUCTURAL ENGINEER (REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS):

1. METAL STAIRS.

2. CURTAIN WALL AND GLAZED ASSEMBLIES.

3. COLD-FORMED METAL FRAMING.

4. STEEL JOIST

5. COLD-FORMED METAL TRUSSES
2. SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF THE CONTROLLING LOAD CASES FOR EACH LOCATION.
3. IN ADDITION TO THEIR OWN DEAD WEIGHT AND THE DEAD LOADS SHOWN OR INDICATED IN THE DRAWINGS, MEMBERS MUST BE DESIGNED TO SUPPORT THE LOADS INDICATED IN THE GENERAL NOTES.
4. CONNECTION DETAILS SHOWN ARE SCHEMATIC ONLY. ALL CONNECTIONS MUST BE DEVELOPED BY THE MANUFACTURER TO SUIT THE SPECIFIED LOADS. CONNECTIONS MUST ACCOUNT FOR THERMAL MOVEMENT, DEFLECTION AND CREEP. DETAIL ALL CONNECTIONS ON SHOP DRAWINGS.
5. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION OF ALL SPECIALTY STRUCTURAL ELEMENTS AND COST ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING STRUCTURE, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.

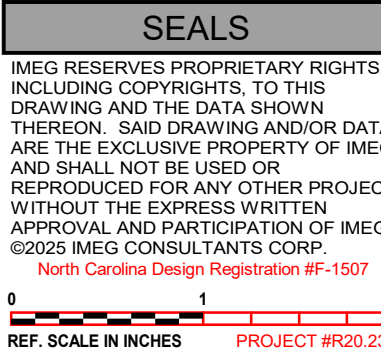


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PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS

6101 MAY BOULEVARD,  
FAMRVILLE, NC 27828



DKA JOB NUMBER

2015

REVISIONS

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Drawn By:

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DK

JMN

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DATE ISSUED

BID SET

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SHEET TITLE

GENERAL NOTES

















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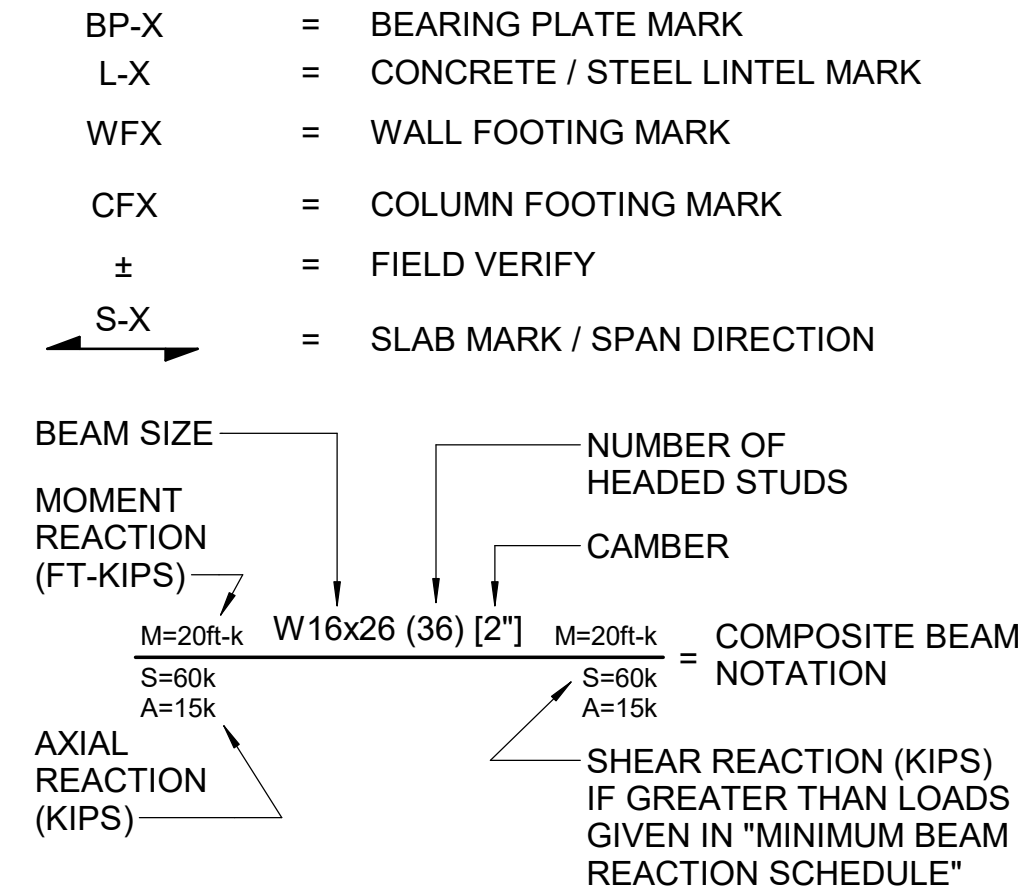


ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	HVY	HEAVY
ARCH	ARCHITECT	INT	INTERIOR
BD	BAR DIAMETER	JBE	JOIST BEARING ELEVATION
BF	BRACED FRAME	JT	JOINT
BEJ	BUILDING EXPANSION JOINT	KCJ	KEYED CONSTRUCTION JOINT
BLDG	BUILDING	L	LOW
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOD	BOTTOM OF DECK	LLV	LONG LEG VERTICAL
BOT, B	BOTTOM	LSH	LONG SIDE HORIZONTAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN	LWTW	LIGHTWEIGHT
C TO C	CENTER TO CENTER	LWC	LIGHTWEIGHT CONCRETE
CFMF	COLD-FORMED METAL	MAS	MASONRY
	FRAMING	MATL	MATERIAL
CJ	CONTROL JOINT	MAX	MAXIMUM
CL	CENTERLINE	MECH	MECHANICAL
CLR	CLEAR	MF	MOMENT FRAME
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER
COL	COLUMN	MID	MIDDLE
CONC	CONCRETE	MIN	MINIMUM
CONN	CONNECTION	MOD	MODIFY
CONSTR	CONSTRUCTION	MOS	MIDDEPTH OF SLAB
CONT	CONTINUOUS	NOM	NOMINAL
COORD	COORDINATE	NTS	NOT TO SCALE
CTR	CENTER	OC	ON CENTER
CTRD	CENTERED	OPH	OPPOSITE HAND
CW	CURTAIN WALL	OPNG	OPENING
DBL	DOUBLE	PAF	POWDER ACTUATED
DCJ	DOWELED CONSTRUCTION		FASTENER
	JOINT	PAR	PARALLEL
DIA, Ø	DIAMETER	PC	PIECE
DJ	DOUBLE JOIST	PEMB	PRE-ENGINEERED METAL
DWGS	DRAWINGS		BUILDING
EA	EACH	PEN	PENETRATE, PENETRATION
EF	EACH FACE	PERP	PERPENDICULAR
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	R	RADIUS
ELEV	ELEVATOR	REF	REFERENCE, REFER TO
EMBED	EMBEDMENT	REINF	REINFORCE, REINFORCED,
EOD	EDGE OF DECK		REINFORCING
EOS	EDGE OF SLAB	REQD	REQUIRED
EQ	EQUAL	REQMTS	REQUIREMENTS
EW	EACH WAY	SCHED	SCHEDULE
EXIST	EXISTING	SF	STEPPED FOOTING
EXP	EXPANSION	SGB	STEPPED GRADE BEAM
EXT	EXTERIOR	SIM	SIMILAR
FD	FLOOR DRAIN	SJ	SAWED JOINT
FDN	FOUNDATION	SL	SLOPE
FO	FACE OF	SOG	SLAB-ON-GRADE
FF EL	FINISHED FLOOR	SPF	SIDEPLATE FRAME
	ELEVATION	STD	STANDARD
FIN	FINISH	TBE	TRUSS BEARING ELEVATION
FIN FLR	FINISHED FLOOR	T&B	TOP & BOTTOM
FOB	FACE OF BUILDING	T&G	TONGUE AND GROOVE
FOC	FACE OF CONCRETE	THK	THICKNESS
FOM	FACE OF MASONRY	TOC	TOP OF CONCRETE
FOS	FACE OF SLAB/ STUD	TOF	TOP OF FOOTING
FRMG	FRAMING	TOM	TOP OF MASONRY
FTG	FOOTING	TOP	TOP OF PEDESTAL
FV, ±	FIELD VERIFY	TOS	TOP OF STEEL
GALV	GALVANIZED	TS	THICKENED SLAB
GEN	GENERAL	TYP	TYPICAL
GR BM	GRADE BEAM	UON	UNLESS OTHERWISE NOTED
H	HIGH	VERT	VERTICAL
HK	HOOK	W/	WITH
HORIZ	HORIZONTAL	WP	WORKING POINT
HSS	HOLLOW STRUCTURAL	WSP	WOOD STRUCTURAL PANEL(S)
	SECTION	WWR	WELDED WIRE REINFORCING
HT	HEIGHT		

PLAN LEGEND:

TOS = +X'-X"	=	TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"	BP-X	=	BEARING PLATE MARK
			L-X	=	CONCRETE / STEEL LINTEL MARK
TOM = +X'-X"	=	TOP OF MASONRY ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"	WFX	=	WALL FOOTING MARK
TBE = +X'-X"	=	TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"	CFX	=	COLUMN FOOTING MARK
			±	=	FIELD VERIFY
JBE = +X'-X"	=	JOIST BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"	S-X	=	SLAB MARK / SPAN DIRECTION
BOD = +X'-X"	=	BOTTOM OF DECK ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"			
	=	MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS			
	=	MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS			
	=	FLOOR / ROOF OPENING			
	=	TOP OF FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"			
	=	TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"			
	=	CHANGE IN ELEVATION - REF ARCH DWGS FOR DIMENSIONS			
	=	DIRECTION OF SLOPE			
	=	KCJ, CJ, OR SJ LINE ON PLAN			
	=	WARP LINE OF ROOF DECK			
	=	PLAN KEY NOTE MARK			
	=	COLUMN GRID MARK			
	=	CMU SHEARWALL			
	=	SECTION/DETAIL NUMBER/LETTER			
	=	SECTION/DETAIL MARK			
	=	SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN			
	=	MOMENT CONNECTION			



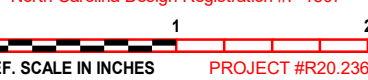
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PROJECT INFORMATION

**TOWN OF FARMVILLE  
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## ALS

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## DOKA JOB NUMBER

2015

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## SHEET TITLE

## PLAN LEGEND AND ABBREVIATIONS

S003

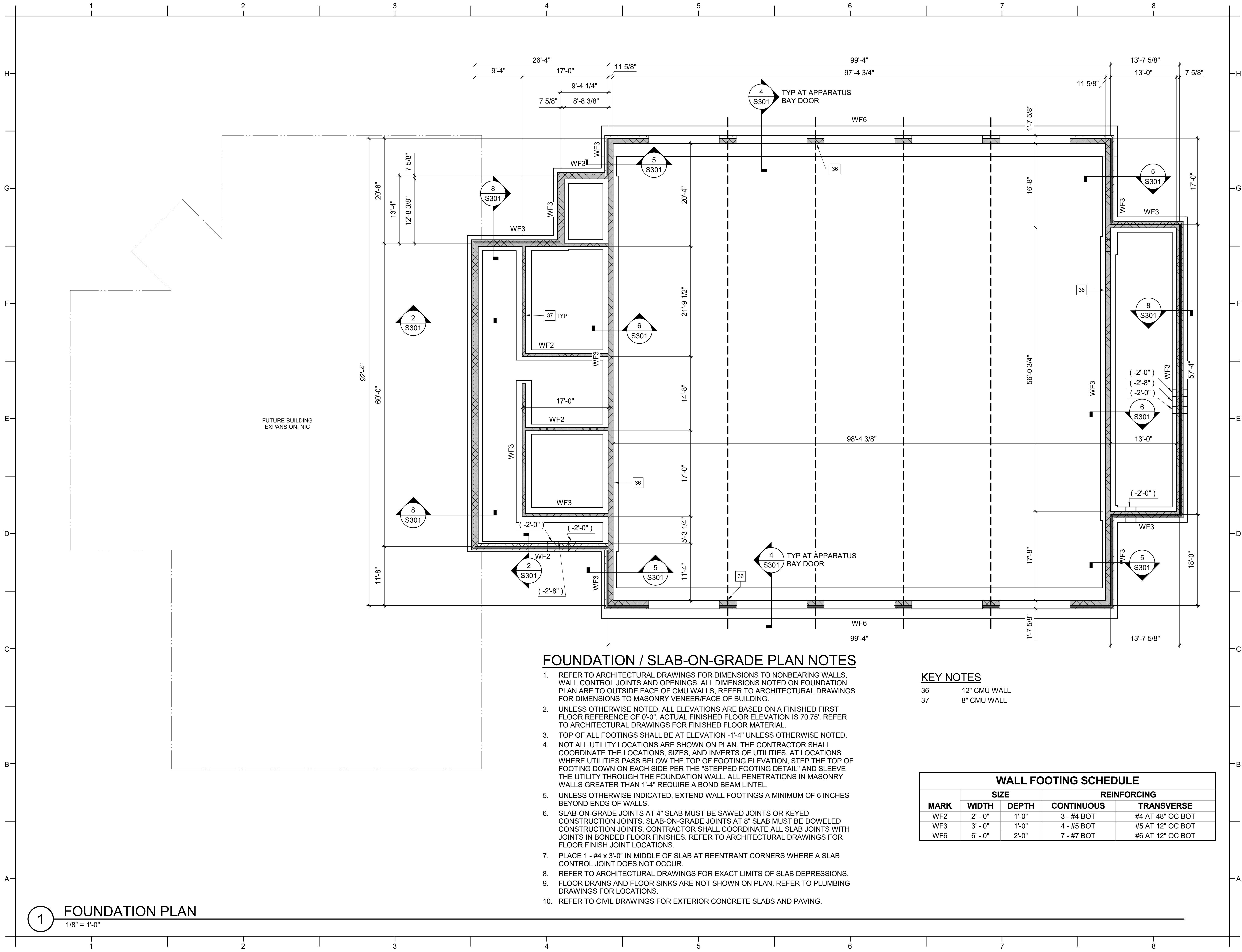




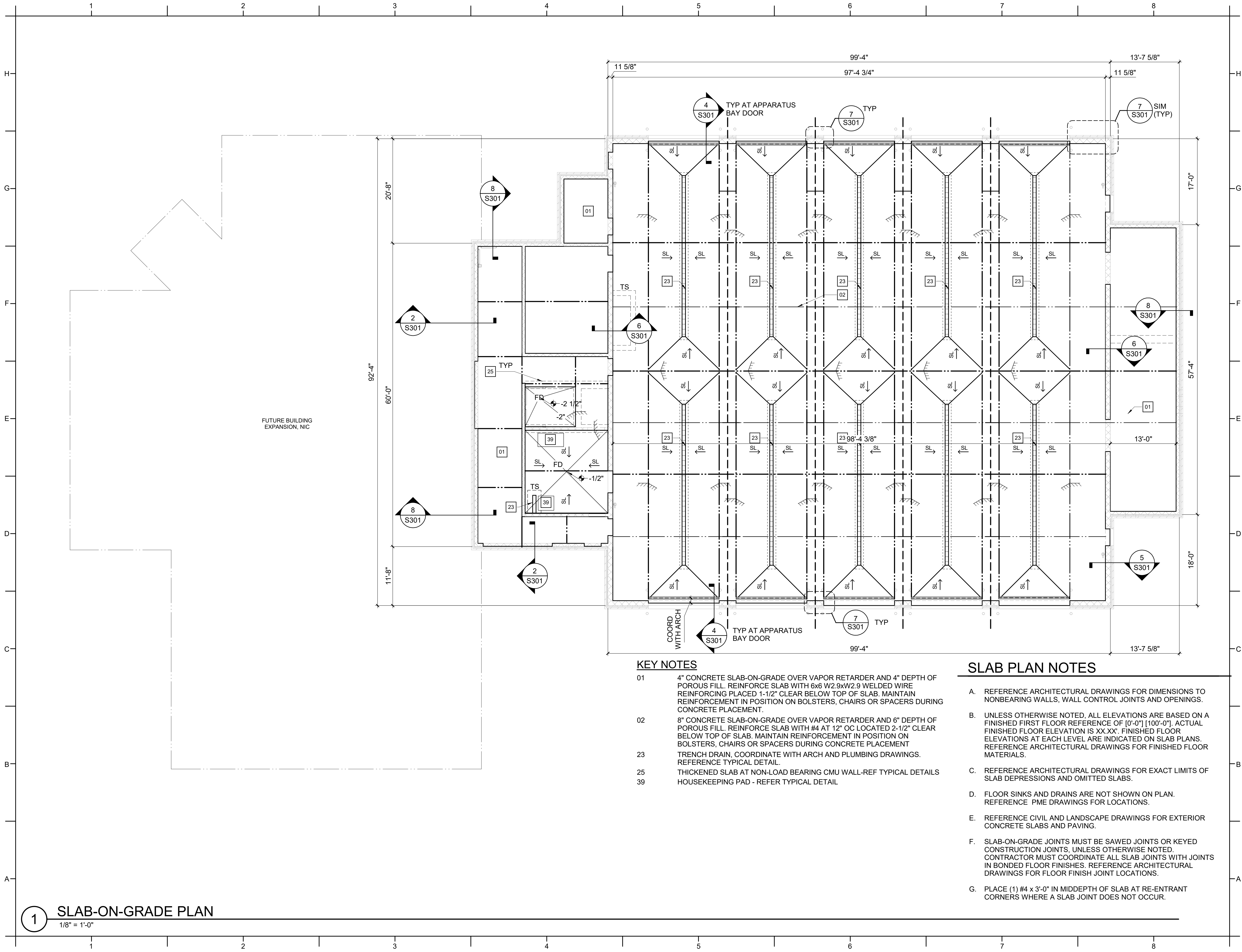


	1	2	3	4	5	6	7	8					
	COLD-FORMED STEEL DECK					CONCRETE CONSTRUCTION			SOILS				
	INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		
SDI QA/QC					NCBC	STANDARD					NCBC		
H	1. PRIOR TO DECK PLACEMENT, VERIFY DECK AND DECK ACCESSORIES COMPLY WITH THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	C	TBL 1.1			1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		<input checked="" type="checkbox"/>	P	ACI CH.20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
	2. INSPECTION TASKS AFTER DECK PLACEMENT							2. REINFORCING BAR WELDING:				AWS D1.4	
	a. VERIFY THE INSTALLATION OF DECK & DECK ACCESSORIES COMPLIES WITH THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	C	TBL 1.2			a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS	<input checked="" type="checkbox"/>	P	ACI 26.6.4	1704.5	
	b. VERIFY THAT DECK MATERIALS' MILL CERTIFICATIONS COMPLY WITH THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	C	TBL 1.2			b. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	P	ACI 26.6.4		
	c. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"		<input checked="" type="checkbox"/>	C		TBL 1.2		c. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	C	ACI 26.6.4		
	3. INSPECTION TASKS PRIOR TO DECK WELDING						3. CONCRETE ANCHORS:						
	a. COLLECT WELDING PROCEDURE SPECIFICATION (WPS)		<input checked="" type="checkbox"/>	P	TBL 1.3			a. INSPECT ANCHORS CAST IN CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
	b. COLLECT MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES		<input checked="" type="checkbox"/>	P	TBL 1.3			b. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS	<input checked="" type="checkbox"/>	C	ACI 17.8.2.4		
	c. VERIFY MATERIAL TYPE AND GRADE		<input checked="" type="checkbox"/>	P	TBL 1.3			c. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH ORIENTATIONS DIFFERENT FROM ITEM 3.B	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
G	d. CHECK WELDING EQUIPMENT		<input checked="" type="checkbox"/>	P	TBL 1.3			d. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
	4. INSPECTION TASKS DURING DECK WELDING						4. COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION		<input checked="" type="checkbox"/>	P	ACI CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	
	a. VERIFY WELDER QUALIFICATIONS		<input checked="" type="checkbox"/>	P	TBL 1.4			5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	<input checked="" type="checkbox"/>	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10	
	b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES		<input checked="" type="checkbox"/>	P	TBL 1.4			6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	<input checked="" type="checkbox"/>	C	ACI 26.5	1908.6, 1908.7, 1908.8	
	c. MONITOR ENVIRONMENTAL CONDITIONS		<input checked="" type="checkbox"/>	P	TBL 1.4			7. COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN PRECONSTRUCTION TESTS ARE REQUIRED BY NCBC SECTION 1908.4	<input checked="" type="checkbox"/>	C		1704.5, 1908.5	
	d. MONITOR PROPER IMPLEMENTATION OF WPS		<input checked="" type="checkbox"/>	P	TBL 1.4			8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	<input checked="" type="checkbox"/>	P	ACI 26.5.3-26.5.5	1908.9	
	5. INSPECTION TASKS AFTER WELDING						9. INSPECTIONS FOR PRESTRESSED CONCRETE						
	a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS		<input checked="" type="checkbox"/>	C	TBL 1.5			a. OBSERVE APPLICATION OF PRESTRESSING FORCE	<input checked="" type="checkbox"/>	C	ACI 26.10		
	b. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA		<input checked="" type="checkbox"/>	C	TBL 1.5			b. INSPECT GROUTING OF BONDED PRESTRESSING TENDONS	<input checked="" type="checkbox"/>	C	ACI 26.10		
F	c. OBSERVE WELD REPAIR ACTIVITIES		<input checked="" type="checkbox"/>	C	TBL 1.5			10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF PT TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM PT & MILD BEAMS AND STRUCTURAL SLABS	<input checked="" type="checkbox"/>	P	ACI 26.11.2		
	6. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING						11. INSPECT ERECTION OF PRECAST MEMBERS		<input checked="" type="checkbox"/>	P	ACI 26.8		
	a. VERIFY MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		<input checked="" type="checkbox"/>	P	TBL 1.6			12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	<input checked="" type="checkbox"/>	P	ACI 26.11.1, 2(B)		
	b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		<input checked="" type="checkbox"/>	P	TBL 1.6			13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED BY SFRS SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS	<input checked="" type="checkbox"/>	C	ACI 20.2.2.5	1704.5	
	c. VERIFY PROPER STORAGE OF MECHANICAL FASTENERS		<input checked="" type="checkbox"/>	P	TBL 1.6			A. REFERENCES TO "ACI" IN THIS TABLE ARE TO THE ACI 318-14.					
	7. INSPECTION TASKS DURING MECHANICAL FASTENING						MASONRY - LEVEL C						
	a. OBSERVE FASTENER SPACING AND POSITION		<input checked="" type="checkbox"/>	P	TBL 1.7			INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA	
	b. VERIFY FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS		<input checked="" type="checkbox"/>	P	TBL 1.7							TMS 402a	TMS 602a
E	8. INSPECTION TASKS AFTER MECHANICAL FASTENING						1. TEST & VERIFY F'M & F'AAc PRIOR TO CONSTRUCTION & FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION		<input checked="" type="checkbox"/>	C	TBL 3.1.3	ART. 1.5	
	a. CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS		<input checked="" type="checkbox"/>	C	TBL 1.8			2. TEST & VERIFY PROPORTIONS OF MATERIALS IN PREMIXED / PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE	<input checked="" type="checkbox"/>	C		TBL 3.1.3	
	b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS		<input checked="" type="checkbox"/>	C	TBL 1.8			3. TEST & VERIFY SLUMP FLOW & VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT	<input checked="" type="checkbox"/>	C		TBL 3.1.3	ART. 1.5B.1.b.3
	c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS		<input checked="" type="checkbox"/>	C	TBL 1.8			4. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	P		TBL 3.1.3	ART. 1.5
	d. VERIFY REPAIR ACTIVITIES		<input checked="" type="checkbox"/>	C	TBL 1.8			5. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
	a. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		<input checked="" type="checkbox"/>	P								ART. 2.1, 2.6A, 2.6B, 2.6C, 2.4G.1.b	
	b. GRADE, TYPE, & SIZE OF REINFORCEMENT & ANCHOR BOLTS, & PRESTRESSING TENDONS & ANCHORAGE		<input checked="" type="checkbox"/>	P	SEC 6.1	ART. 2.4, 3.4							
	c. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		<input checked="" type="checkbox"/>	P		ART. 3.3B							
	d. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		<input checked="" type="checkbox"/>	C	SEC 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A							
	e. GROUT SPACE IS CLEAN, AND CLEANOUTS PROVIDED WHEN REQUIRED		<input checked="" type="checkbox"/>	P		ART. 3.2D, 3.2F							
	f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		<input checked="" type="checkbox"/>	C		ART. 3.5, 3.6C							
	g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		<input checked="" type="checkbox"/>	P		ART. 3.3F							
	h. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		<input checked="" type="checkbox"/>	C	SEC 1.2.1(E), 6.1.4.3, 6.2.1								
	i. WELDING OF REINFORCEMENT		<input checked="" type="checkbox"/>	C	SEC 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)								
	j. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE < 40°F) OR HOT WEATHER (TEMPERATURE > 90°F)		<input checked="" type="checkbox"/>	P		ART. 1.8C, 1.8D							
	k. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		<input checked="" type="checkbox"/>	C		ART. 3.6B							
	l. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		<input checked="" type="checkbox"/>	C	ART. 3.3B.9, 3.3F.1.b								
	m. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		<input checked="" type="checkbox"/>	C	ART. 2.1C.1								
	6. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS		<input checked="" type="checkbox"/>	C		ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4							
	A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE6-13.												
	INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		
STANDARD					NCBC	STANDARD					NCBC		
	1. VERIFY MATERIALS BELOW MUSTOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		<input checked="" type="checkbox"/>	P				1. VERIFY MATERIALS BELOW MUSTOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		<input checked="" type="checkbox"/>	P		1705.6
	2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL		<input checked="" type="checkbox"/>	P				2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL		<input checked="" type="checkbox"/>	P		1705.6
	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		<input checked="" type="checkbox"/>	P				3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		<input checked="" type="checkbox"/>	P		1705.6
	4. VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	C				4. VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	C		1705.6
	5. PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	P				5. PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS		<input checked="" type="checkbox"/>	P		1705.6
	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE												
	INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		INSPECTION TASK		TASK REQD	FREQ	REFERENCE FOR CRITERIA		
STANDARD					NCBC	STANDARD					NCBC		
	1. PRIOR TO ANY WORK TAKING PLACE, EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-RESISTING SYSTEM OR COMPONENT MUST SUBMIT A WRITTEN STATEMENT OF CONTRACTOR RESPONSIBILITY		<input type="checkbox"/>	C				1. PRIOR TO ANY WORK TAKING PLACE, EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-RESISTING SYSTEM OR COMPONENT MUST SUBMIT A WRITTEN STATEMENT OF CONTRACTOR RESPONSIBILITY		<input type="checkbox"/>	C		1704.4
	2. STRUCTURAL STEEL (SEE FOLLOWING TABLES)		<input type="checkbox"/>	O/C				2. STRUCTURAL STEEL (SEE FOLLOWING TABLES)		<input type="checkbox"/>	O/C		1705.12.1
	3. STRUCTURAL WOOD							3. STRUCTURAL WOOD					
	a. VERIFY FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM (SFRS)		<input type="checkbox"/>	C				a. VERIFY FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM (SFRS)		<input type="checkbox"/>	C		1705.12.2.1
	b. INSPECT NAILING, BOLTING, ANCHORING & OTHER FASTENING AT ELEMENTS OF SFRS		<input type="checkbox"/>	P				b. INSPECT NAILING, BOLTING, ANCHORING & OTHER FASTENING AT ELEMENTS OF SFRS		<input type="checkbox"/>	P		1705.12.2.2
	4. COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION							4. COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION					
	a. VERIFY WELDING OPERATIONS OF ELEMENTS OF THE SFRS		<input type="checkbox"/>	P				a. VERIFY WELDING OPERATIONS OF ELEMENTS OF THE SFRS		<input type="checkbox"/>	P		1705.12.3.1
	b. INSPECT SCREW ATTACHMENT, BOLTING, ANCHORING, & FASTENING USED BY SFRS		<input type="checkbox"/>	P				b. INSPECT SCREW ATTACHMENT, BOLTING, ANCHORING, & FASTENING USED BY SFRS		<input type="checkbox"/>	P		1705.12.3.2
	c. INSPECT SPECIAL BOLTED MOMENT FRAMES		<input type="checkbox"/>	P				c. INSPECT SPECIAL BOLTED MOMENT FRAMES		<input type="checkbox"/>	P		1705.12.9
	5. VERIFY ERECTION & FASTENING OF EXTERIOR CLADDING, NON-BEARING WALLS AND VENEER		<input checked="" type="checkbox"/>	P				5. VERIFY ERECTION & FASTENING OF EXTERIOR CLADDING, NON-BEARING WALLS AND VENEER		<input checked="" type="checkbox"/>	P		1705.12.5
	6. CONFIRM ANCHORAGE OF ACCESS FLOORS		<input type="checkbox"/>	P				6. CONFIRM ANCHORAGE OF ACCESS FLOORS		<input type="checkbox"/>	P		1705.12.5.1
	7. CONFIRM ANCHORAGE OF STORAGE RACKS		<input type="checkbox"/>	P				7. CONFIRM ANCHORAGE OF STORAGE RACKS		<input type="checkbox"/>	P		1705.12.7
	8. COLLECT CERTIFICATES OF COMPLIANCE FOR QUALIFYING EQUIPMENT, SUPPORTS, ATTACHMENTS & COMPONENTS; VERIFY CORRECTNESS OF LABELS & INSTALLATION		<input checked="" type="checkbox"/>	C	ASCE7 13.2.2, 13.2.1	1705.12.4, 1705.13.2		8. COLLECT CERTIFICATES OF COMPLIANCE FOR QUALIFYING EQUIPMENT, SUPPORTS, ATTACHMENTS & COMPONENTS; VERIFY CORRECTNESS OF LABELS & INSTALLATION		<input checked="" type="checkbox"/>	C	ASCE7 13.2.2, 13.2.1	1705.12.4, 1705.13.2
	9. PLUMBING, MECHANICAL, ELECTRICAL COMPONENTS							9. PLUMBING, MECHANICAL, ELECTRICAL COMPONENTS					
	a. VERIFY ANCHORAGE OF ELEC. EQUIP FOR EMERGENCY & STANDBY POWER SYSTEMS		<input checked="" type="checkbox"/>	P				a. VERIFY ANCHORAGE OF ELEC. EQUIP FOR EMERGENCY & STANDBY POWER SYSTEMS		<input checked="" type="checkbox"/>	P		1705.12.6
	b. VERIFY INSTALLATION & ANCHORAGE OF PIPE & DUCT SYSTEMS CARRYING HAZARDOUS MATERIALS & ASSOCIATED MECH UNITS		<input checked="" type="checkbox"/>	P				b. VERIFY INSTALLATION & ANCHORAGE OF PIPE & DUCT SYSTEMS CARRYING HAZARDOUS MATERIALS & ASSOCIATED MECH UNITS		<input checked="" type="checkbox"/>	P		1705.12.6
	c. CONFIRM THE INSTALLATION & ANCHORAGE OF VIBRATION ISOLATION SYSTEMS WITH NOMINAL CLEARANCES ≤¼"		<input checked="" type="checkbox"/>	P				c. CONFIRM THE INSTALLATION & ANCHORAGE OF VIBRATION ISOLATION SYSTEMS WITH NOMINAL CLEARANCES ≤¼"		<input checked="" type="checkbox"/>	P		1705.12.6
	d. INSPECT & TEST SEISMIC ISOLATION SYSTEMS AT SEISMIC ISOLATED STRUCTURES		<input type="checkbox"/>	P	ASCE7 17.8	1705.12.8, 1705.13.4		d. INSPECT & TEST SEISMIC ISOLATION SYSTEMS AT SEISMIC ISOLATED STRUCTURES		<input type="checkbox"/>	P	ASCE7 17.8	1705.12.8, 1705.13.4
	SEISMIC-FORCE RESISTING SYSTEM(S) SUBJECT TO SPECIAL INSPECTIONS: N/A												
	SEISMIC-RESISTING COMPONENTS AND CONNECTIONS SUBJECT TO SPECIAL INSPECTIONS: AS SCHEDULED HEREIN												









1 SLAB-ON-GRADE PLAN  
1/8" = 1'-0"

KEY NOTES

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL. REINFORCE SLAB WITH 6x6 W2.9xW2.9 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 02 8" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 6" DEPTH OF POROUS FILL. REINFORCE SLAB WITH #4 AT 12" OC LOCATED 2-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT
- 23 TRENCH DRAIN, COORDINATE WITH ARCH AND PLUMBING DRAWINGS. REFERENCE TYPICAL DETAIL.
- 25 THICKENED SLAB AT NON-LOAD BEARING CMU WALL-REF TYPICAL DETAILS
- 39 HOUSEKEEPING PAD - REFER TYPICAL DETAIL

SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF [0'-0"] [100'-0"]. ACTUAL FINISHED FLOOR ELEVATION IS XX.XX'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.
- D. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.
- E. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.
- F. SLAB-ON-GRADE JOINTS MUST BE SAWED JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- G. PLACE (1) #4 x 3'-0" IN MIDDEPTH OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.

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PROJECT INFORMATION

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**Professional Engineer Seal**  
SUSAN W. RUSSELL  
040416  
ENGINEER

**DKA JOB NUMBER**  
2015

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**SHEET TITLE**  
SLAB-ON-GRADE  
PLAN  
**S102**

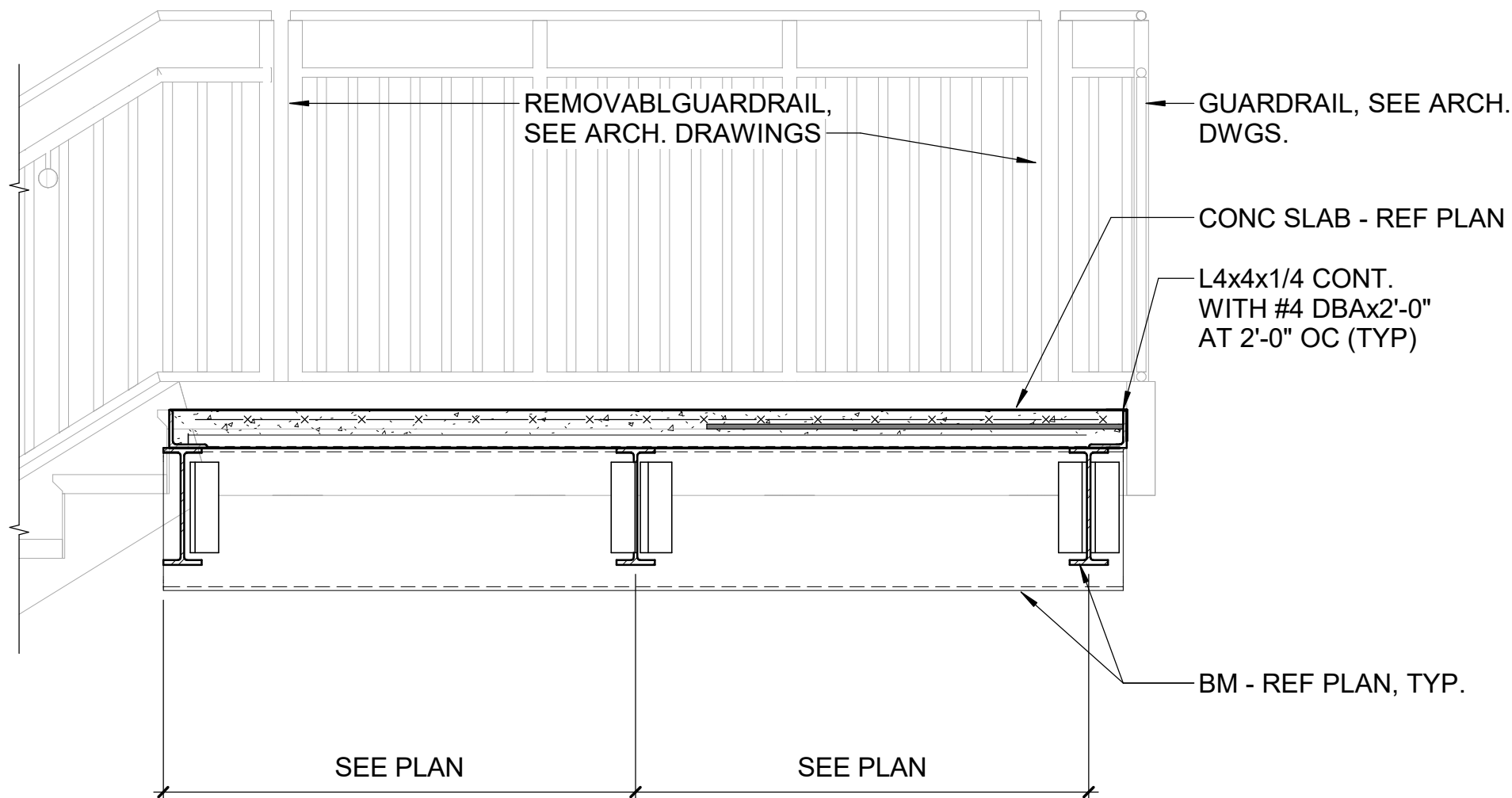
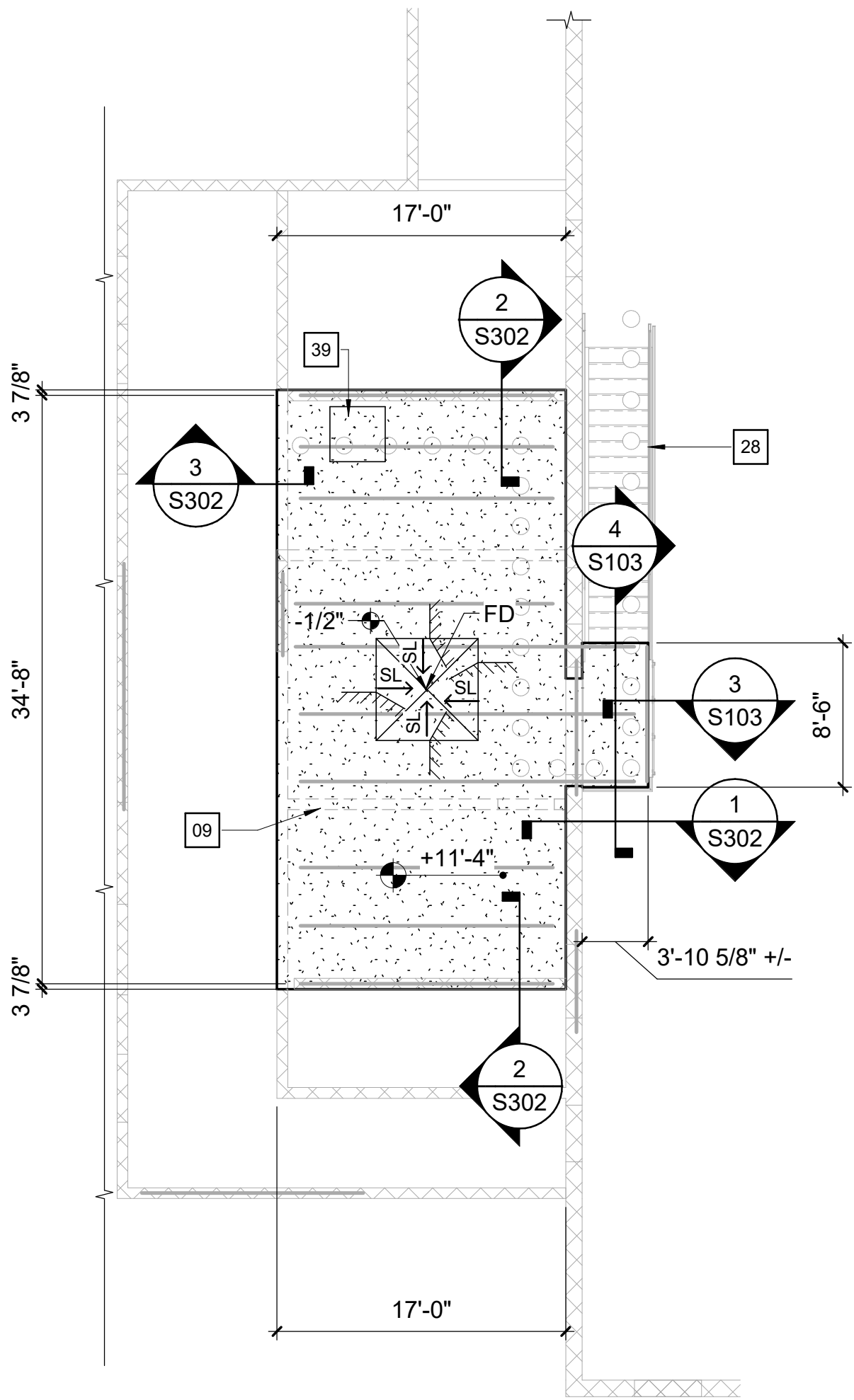
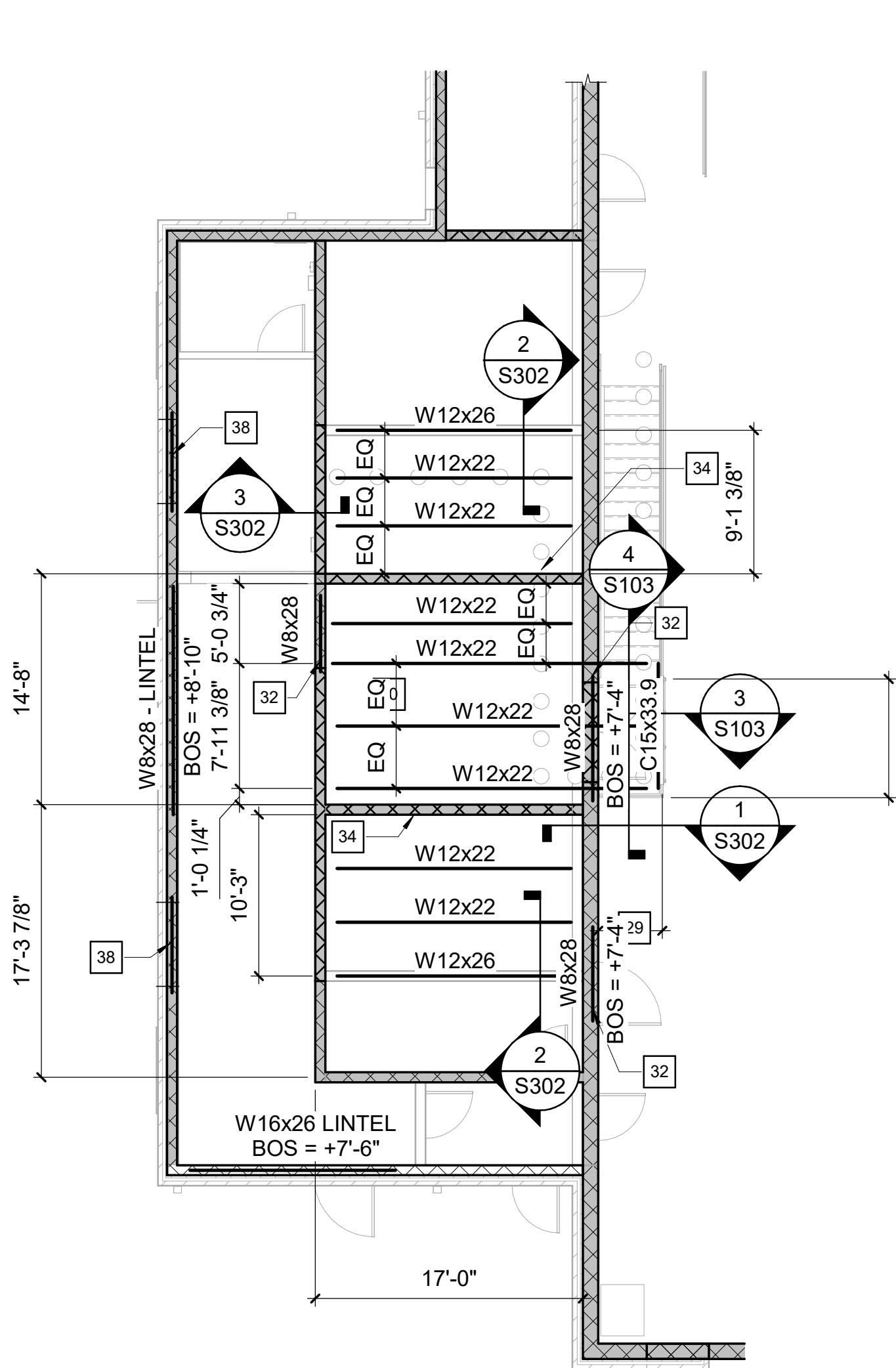


FLOOR FRAMING PLAN NOTES

- 1. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 2. COORD AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.
- 3. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS.
- 4. FLOOR FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 4'-0" ON CENTER).

KEY NOTES

- 09 2 1/2" NORMAL WEIGHT CONCRETE FLOOR SLAB ON 1-1/2" 22 GA FORM DECK, (4" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.
- 10 MEZZANINE BEAMS MUST BE EQUALLY SPACED NOT TO EXCEED 4'-0" OC.
- 28 PREFABRICATED METAL STAIRS - REF ARCH. DRAWINGS
- 29 FIXED GUARDRAIL - REF ARCH DRAWINGS
- 32 PROVIDE 3/8"x11 1/2" BOTTOM PLATE. STOP PLATE 1/4" FROM FACE OF CMU EA SIDE.
- 34 PROVIDE CONT 8" DEEP BOND BEAM WITH (2) #5 CONT. INSTALL 1/4"x4"6" CONT PLATE WITH 3/8"x6"x6" EMBED PLATE WITH (2) 1/2" DIA x6" HEADED STUDS AT 32"OC AT TOP OF CMU WALL. WELD DECK AS SHOWN IN GENERAL NOTES.
- 38 CMU LINTEL - REF TYPICAL DETAIL
- 39 HOUSEKEEPING PAD - REFER TYPICAL DETAIL



SECTION

3/4" = 1'-0"

HANDRAIL -,  
REF ARCH.  
DWGS.

CONT L4x4x1/4  
CONT. WITH #4  
DBAx2'-0" AT 2'-0"  
OC

3/8"x6"x6" EMBED  
PLATE WITH (2)  
1/2"DIA. x6"  
HEADED STUDS  
AT 24"OC

COORD. WITH ARCH. DWG'S.

1/4"x4" CONT.  
PLATE  
CONC SLAB - REF PLAN  
BM - REF PLAN, TYP.

CONT 16" DEEP BOND BEAM  
W/ 2-#5 CONT. TOP AND  
BOT, EXTEND CONT TO 2'-0"  
BEYOND BEAM BEARING

#5 AT 24" O/C  
12" CMU

MEZZANINE FRAMING PLAN

1/8" = 1'-0"

MEZZANINE SLAB PLAN

1/8" = 1'-0"

SECTION

3/4" = 1'-0"

SEALS

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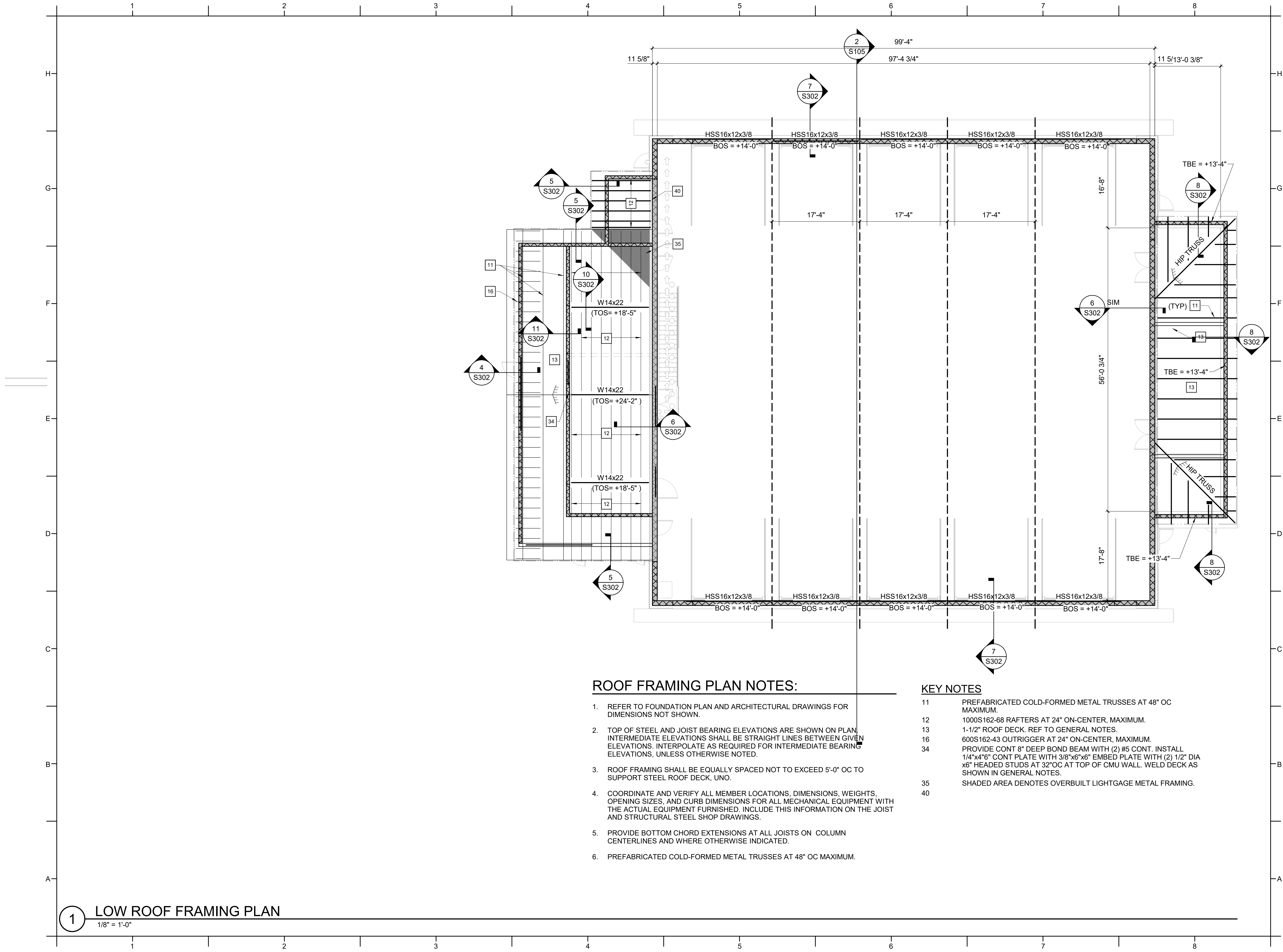
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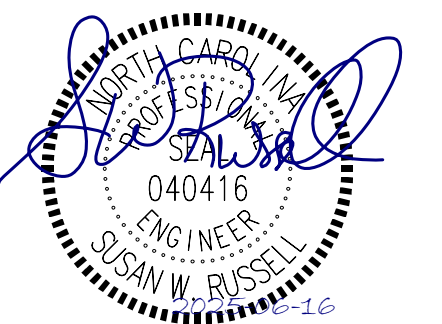
**S103**





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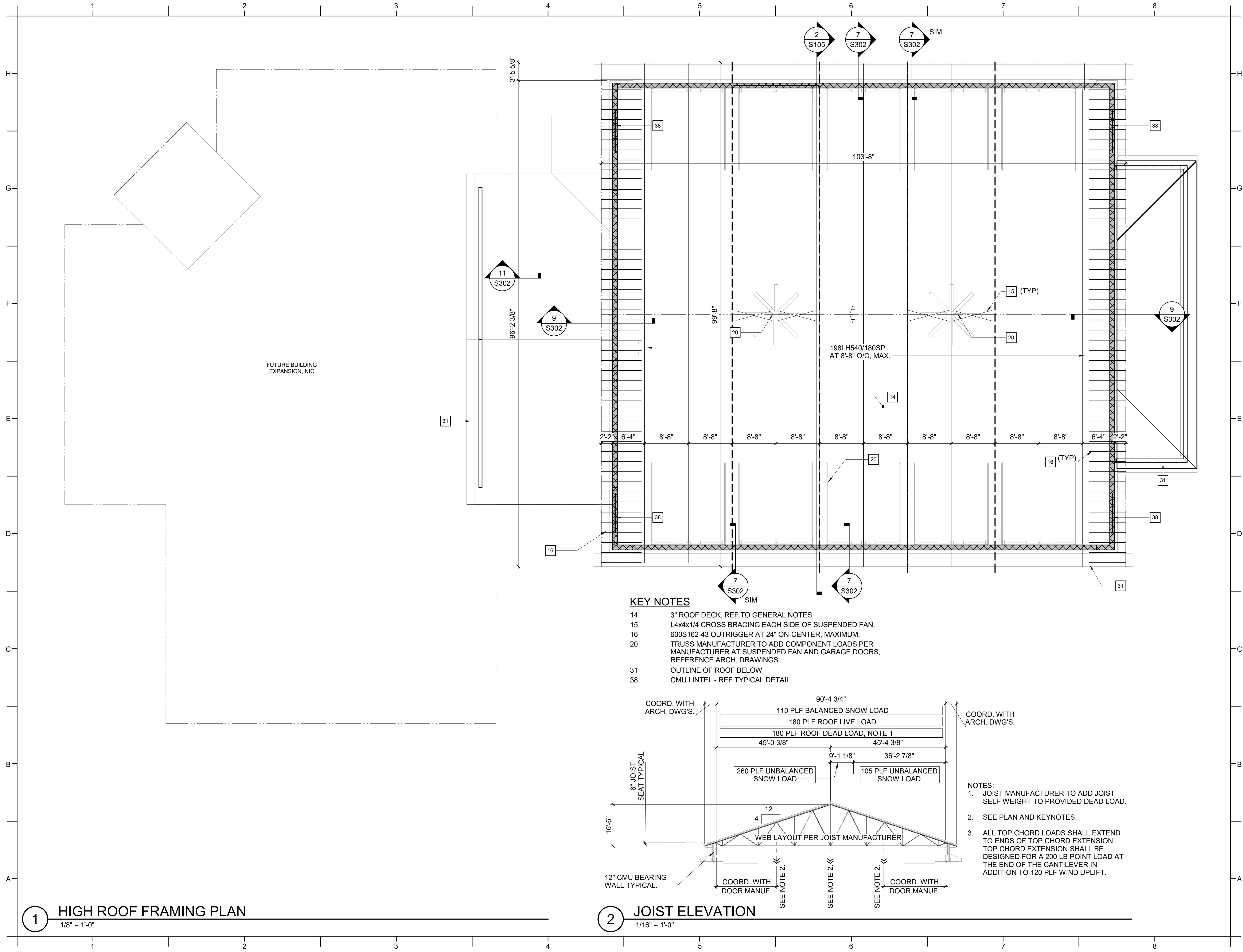
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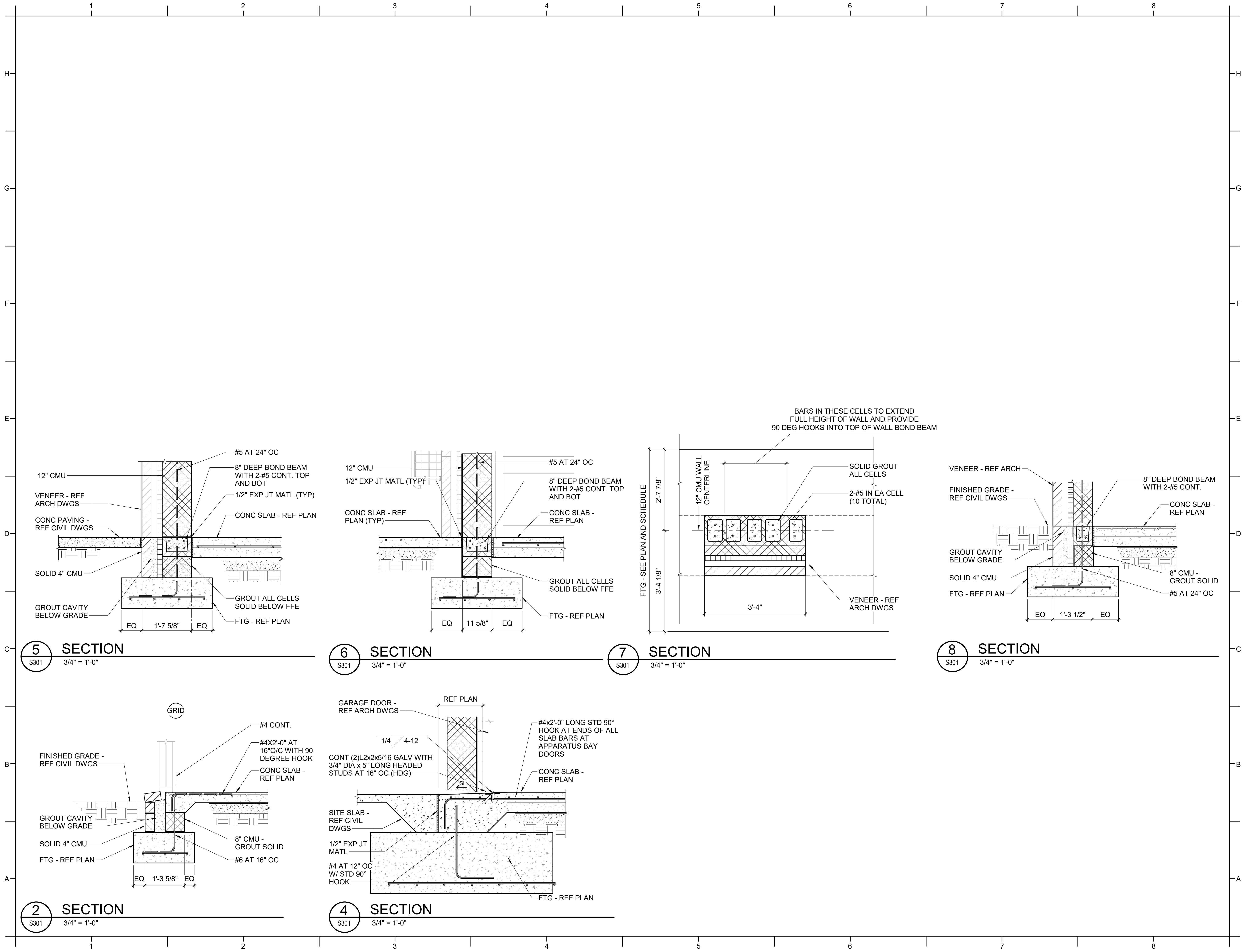
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**SHEET TITLE**  
LOW ROOF  
FRAMING PLAN  
**S104**



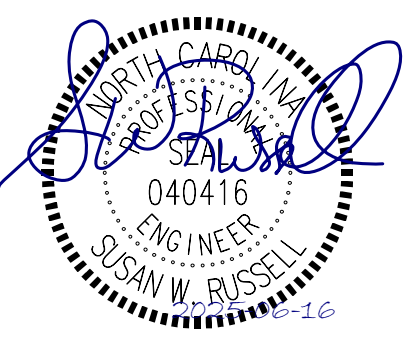






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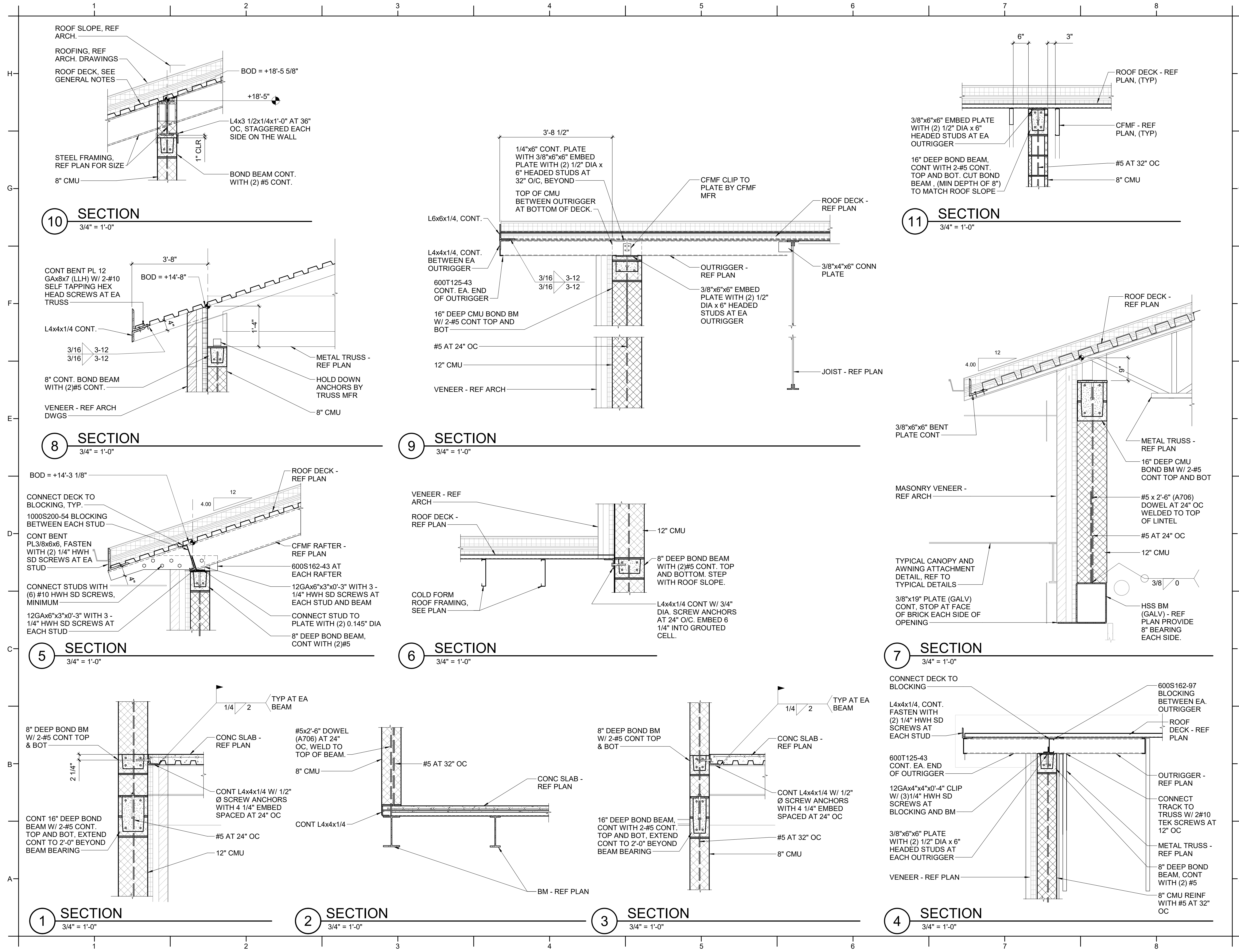
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**SHEET TITLE**  
SECTIONS

**S301**

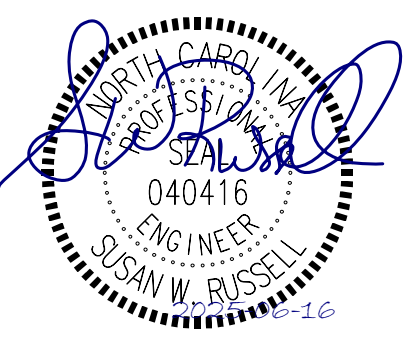




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**SHEET TITLE**  
SECTIONS

**S302**





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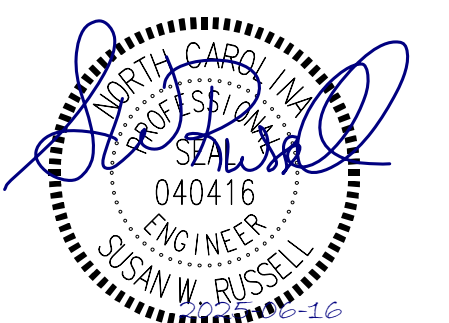
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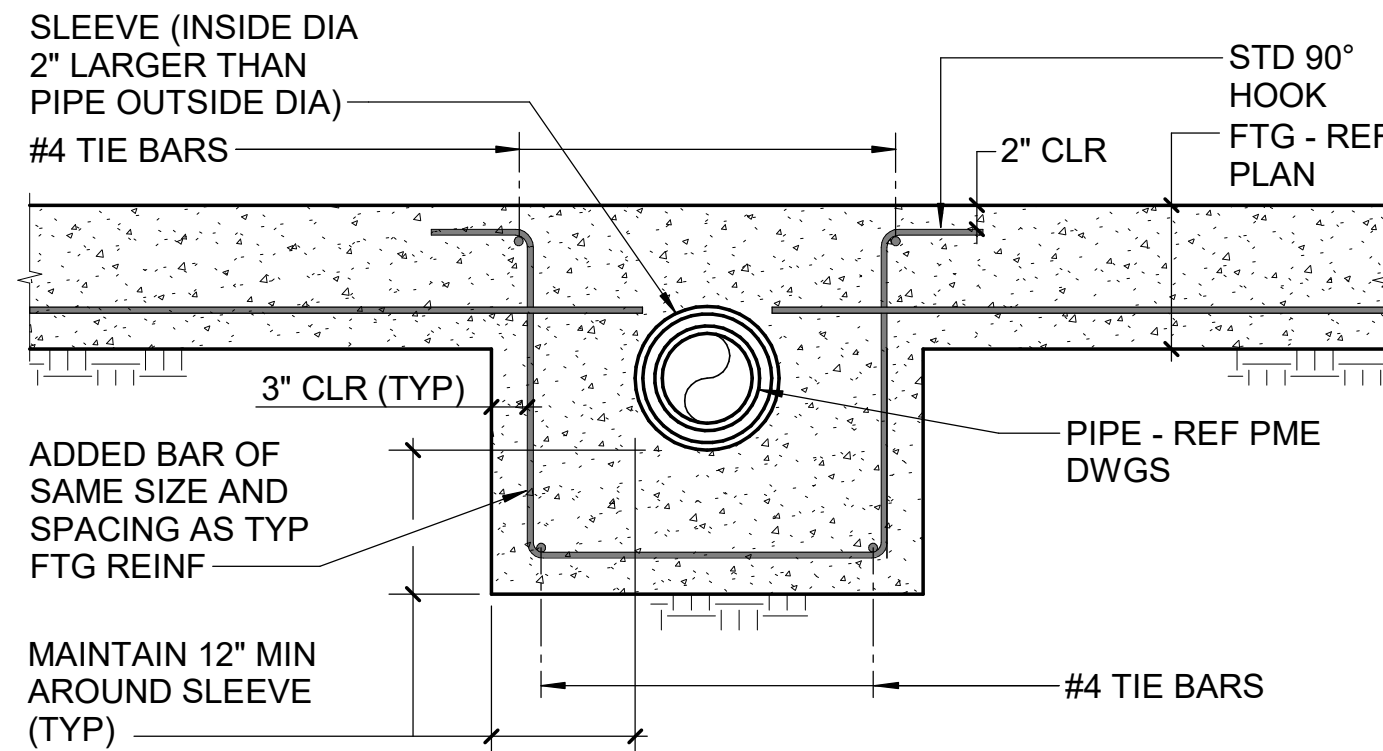
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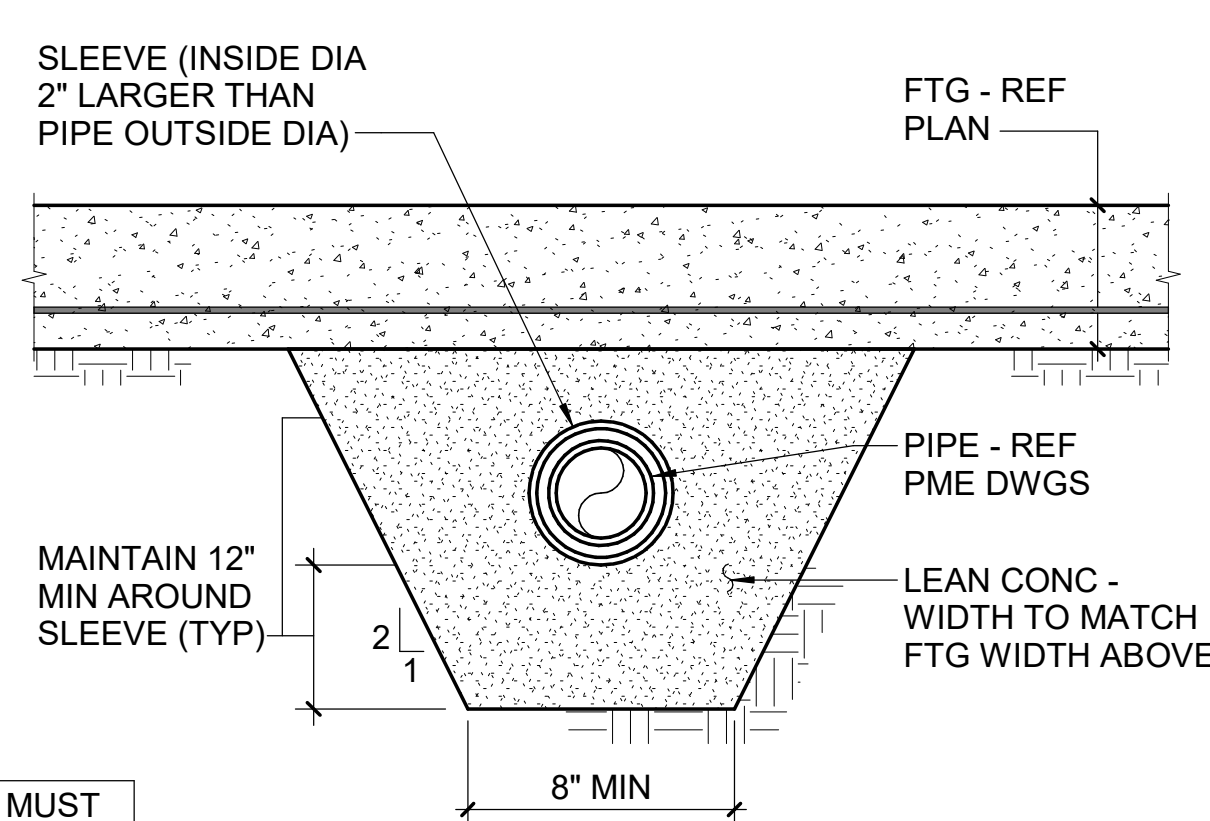
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TYPICAL DETAILS

S501

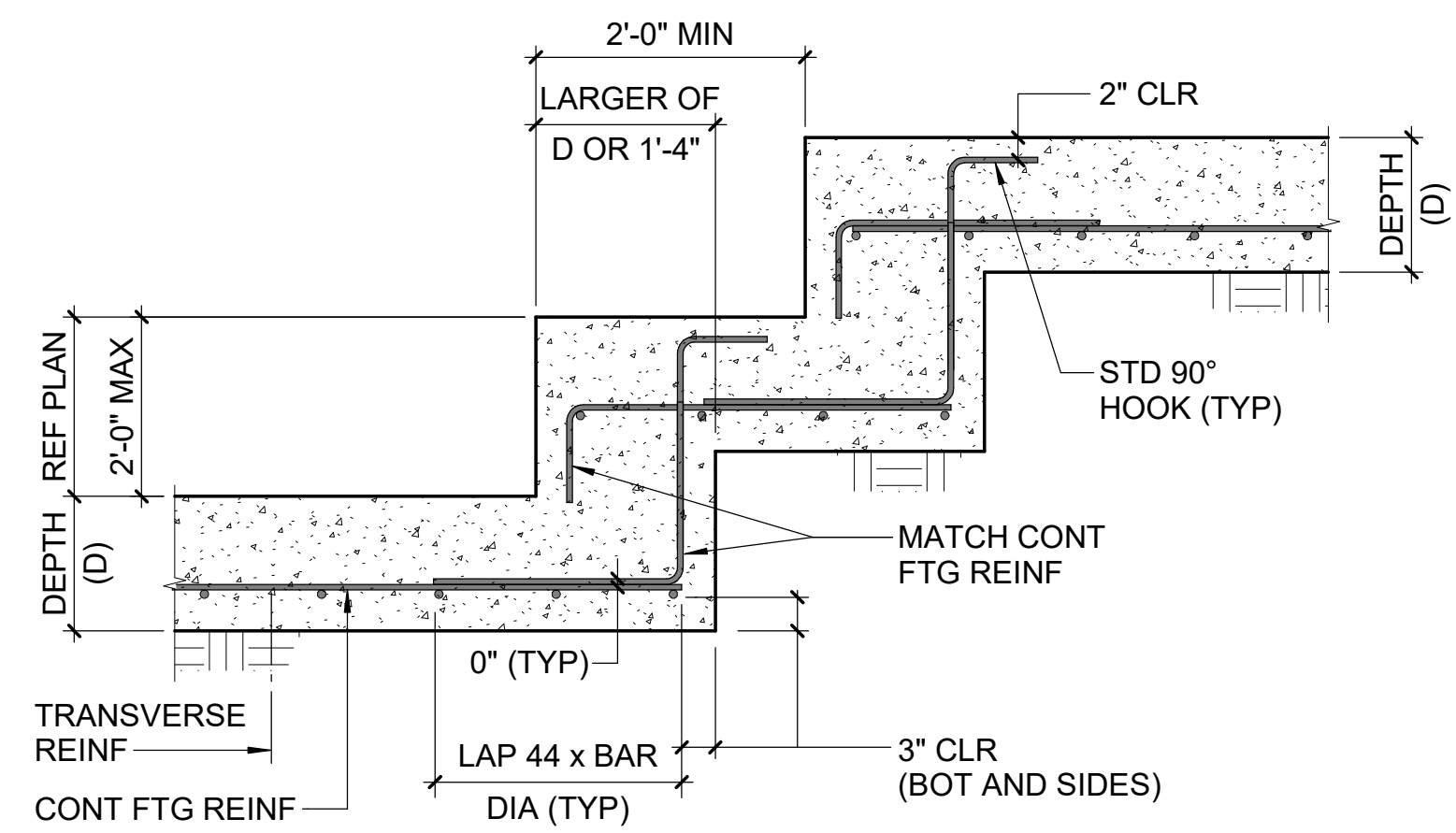


THROUGH FOOTING



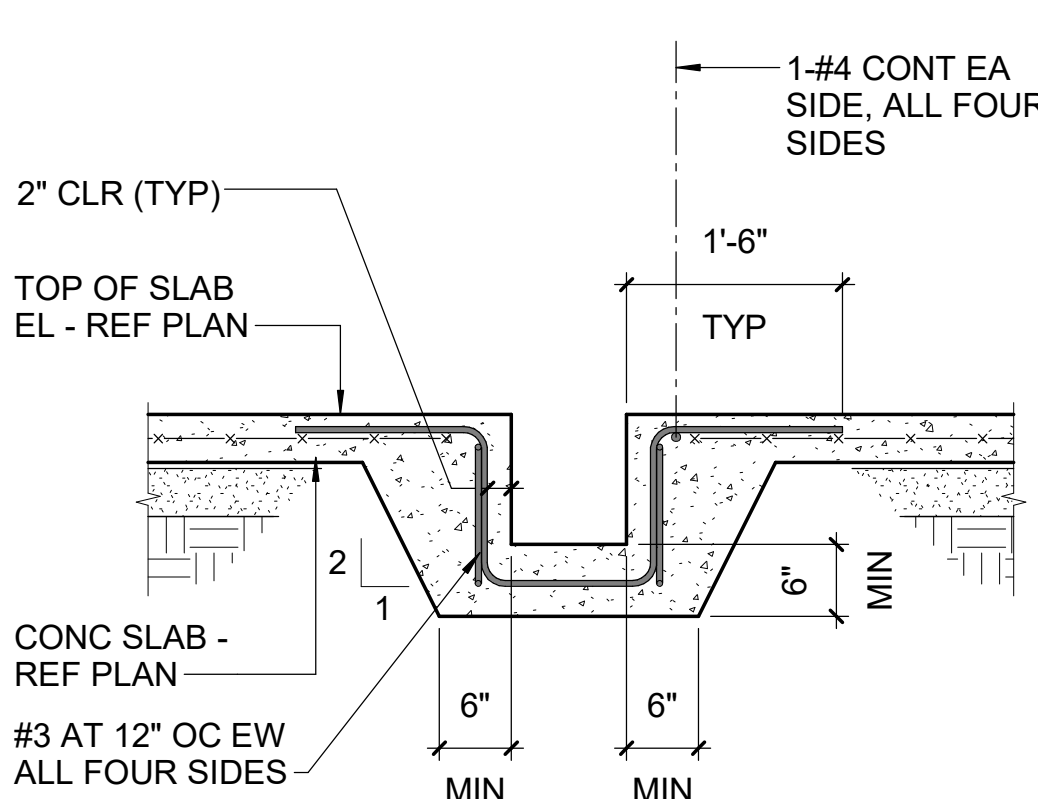
BELOW FOOTING

NOTE: SLEEVES MUST NOT BE LOCATED IN OR UNDER COL FTGS.

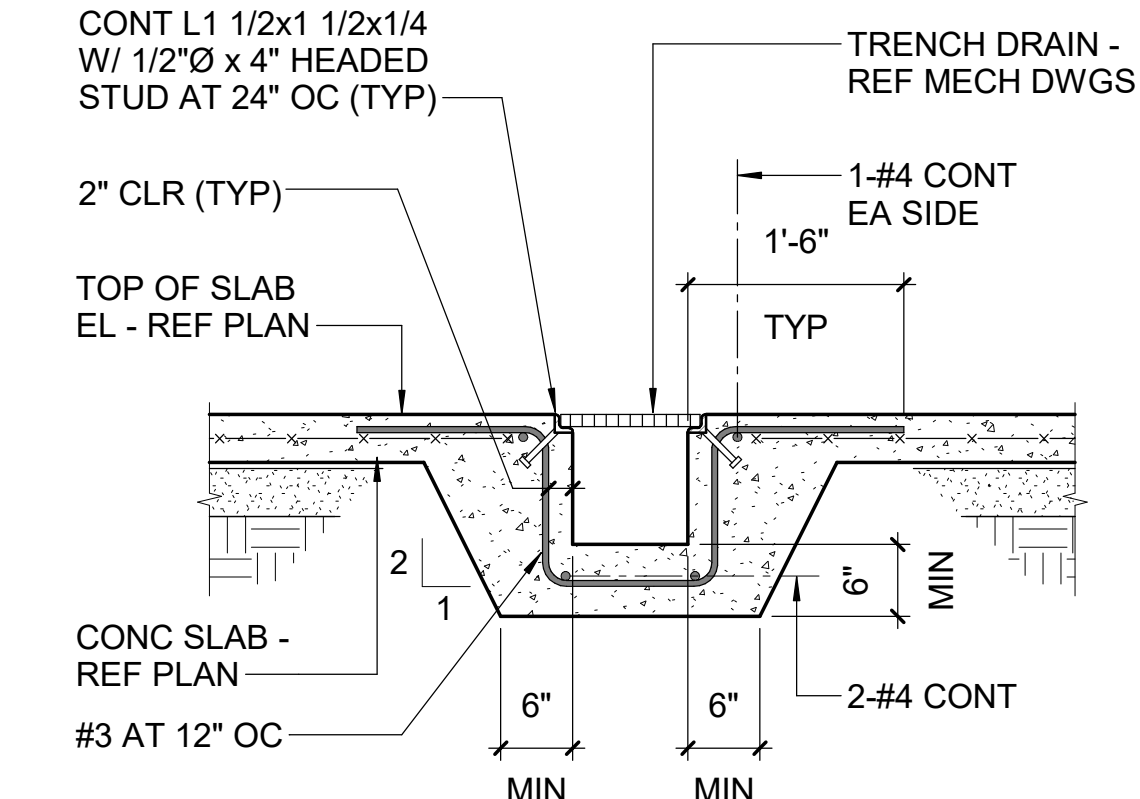


TYPICAL STEPPED WALL FOOTING DETAIL

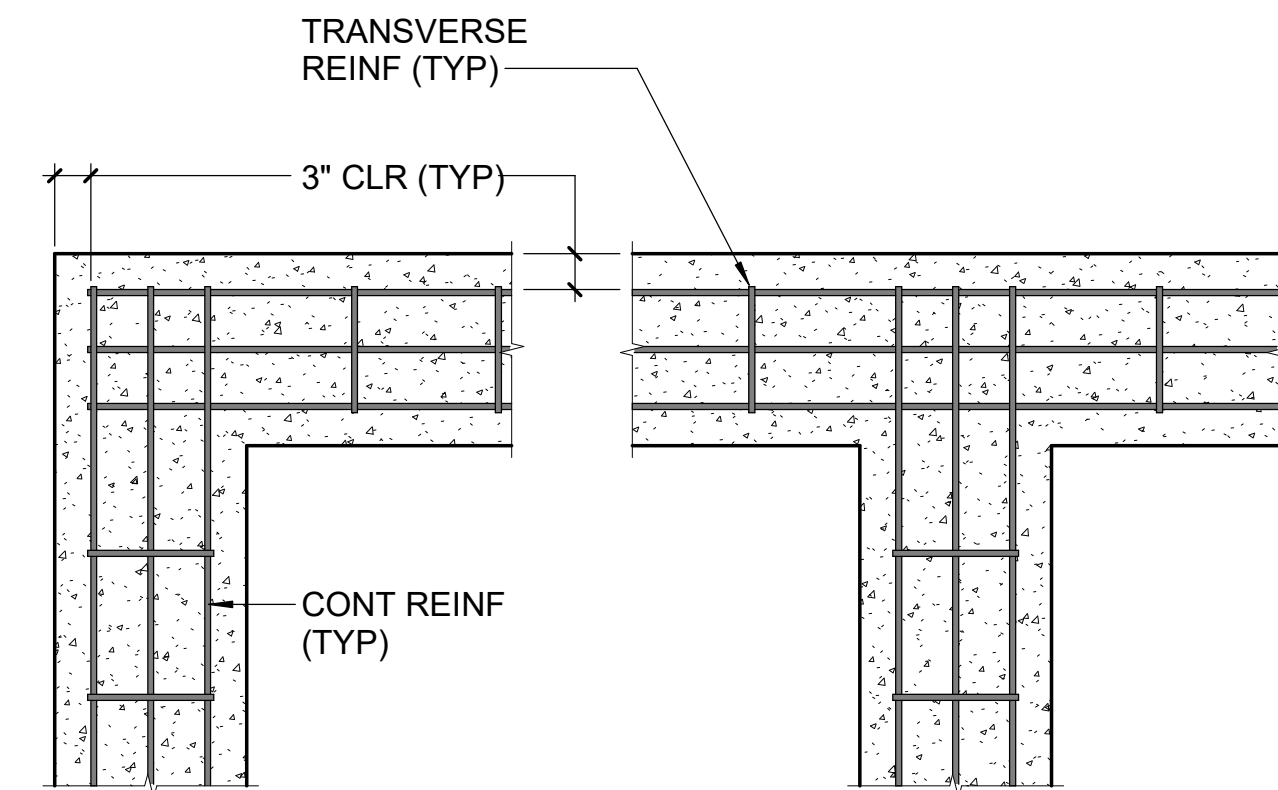
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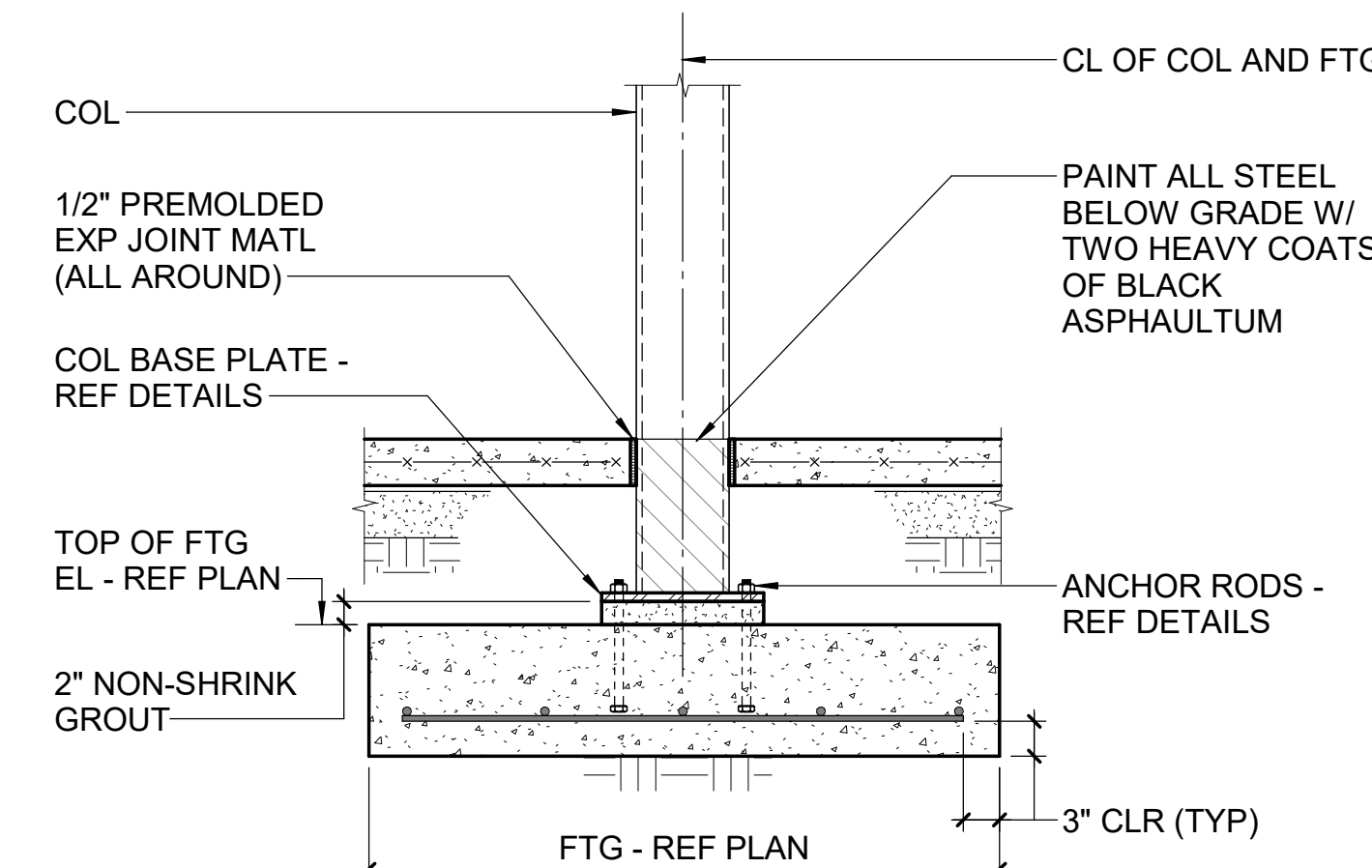
TYPICAL MOP SINK DETAIL



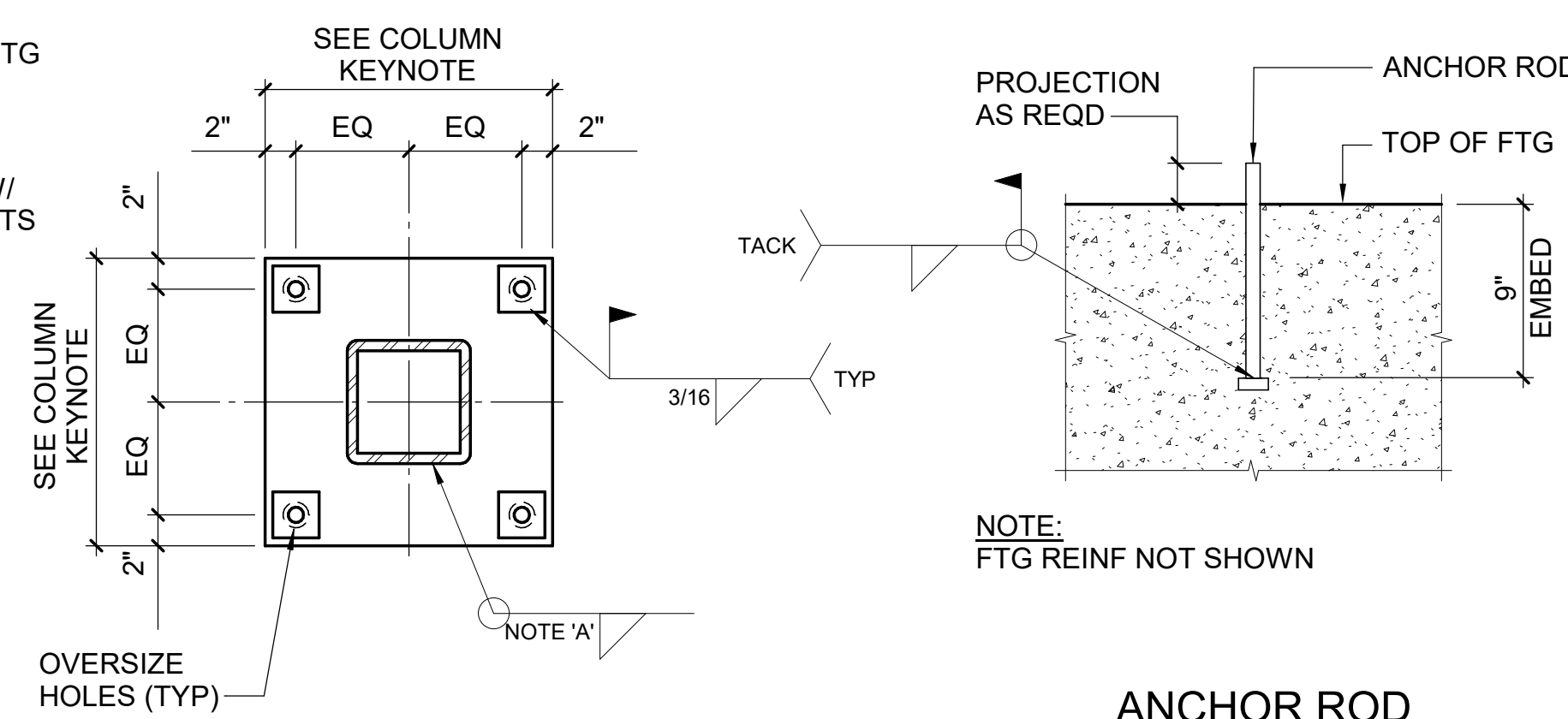
TYPICAL TRENCH DRAIN DETAIL



TYPICAL WALL FOOTING CORNER AND INTERSECTION DETAILS



TYPICAL COLUMN AND FOOTING DETAIL



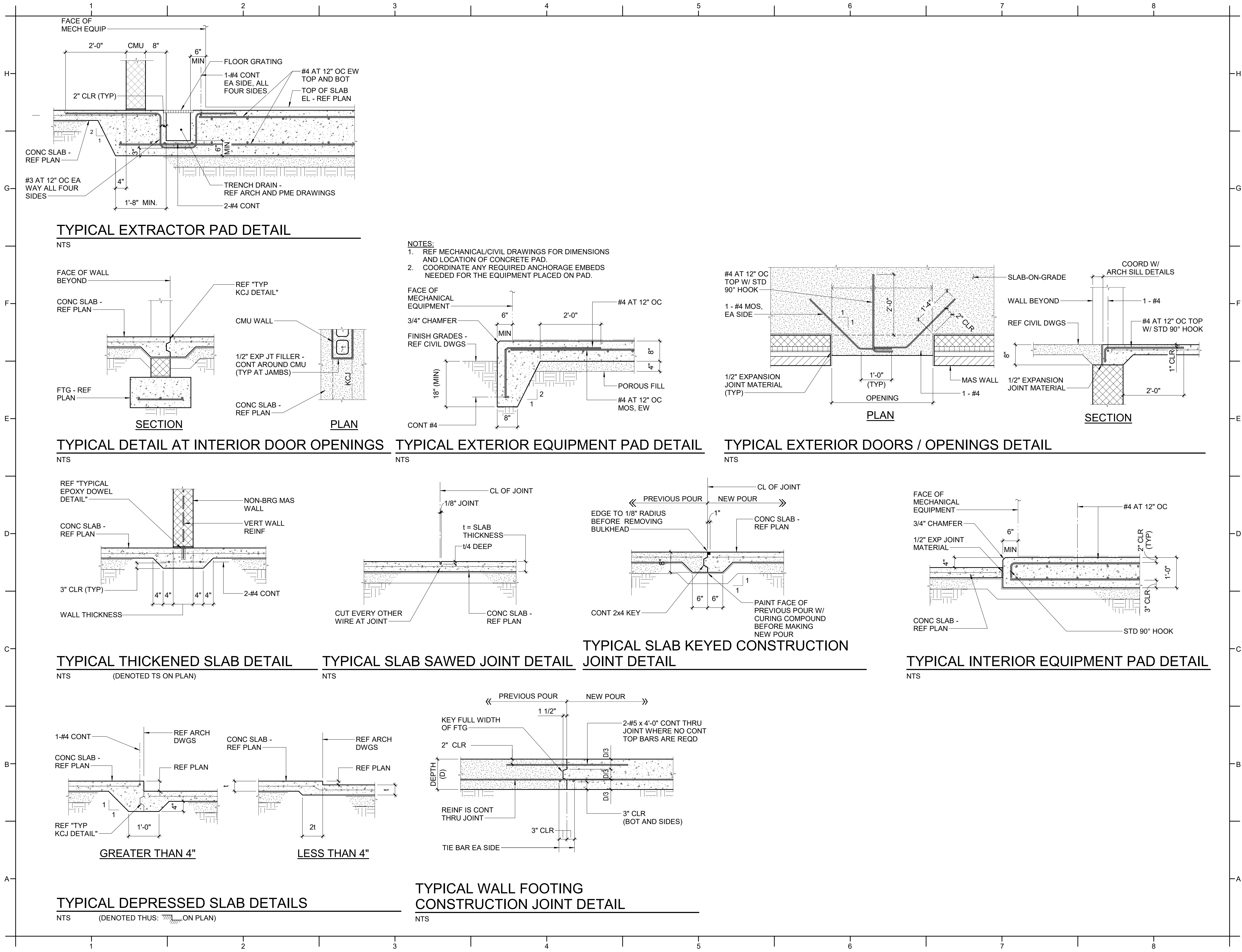
COLUMN BASE PLATE AND ANCHOR ROD DETAIL

PLATE WASHER SCHEDULE			
ANCHOR ROD	SIZE	HOLE DIAMETER	THICKNESS
3/4"Ø	2" SQ	13/16"	1/4"
1"Ø	3" SQ	1 1/16"	3/8"
1 1/2"Ø	3" SQ	1 9/16"	1/2"

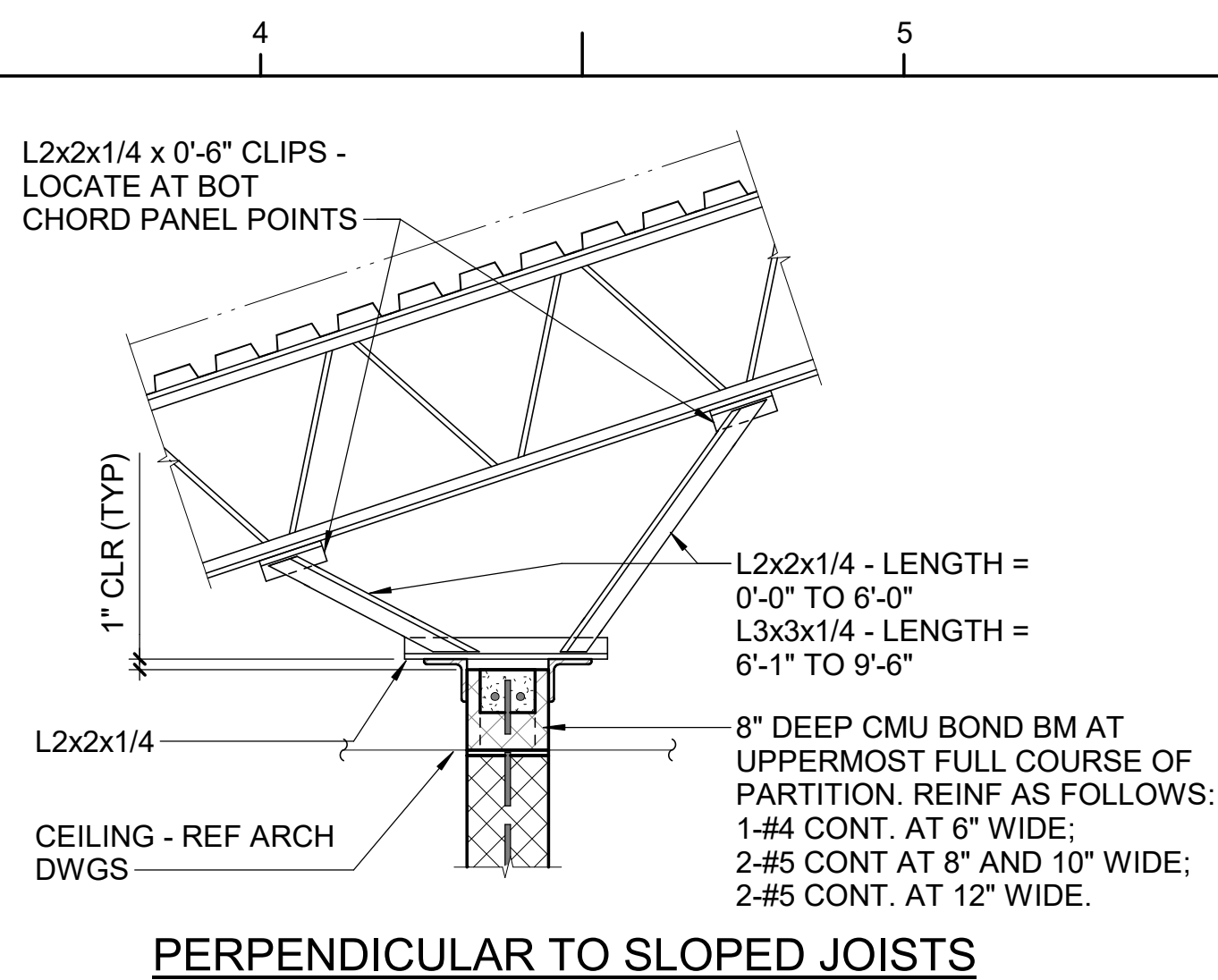
NOTE:  
A. PROVIDE MINIMUM SIZE WELD PER AISC TABLE J2.4.  
B. AT THE GENERAL CONTRACTOR'S OPTION, WHEN BASE PLATES ARE LESS THAN 1 1/4" THICK, USE 1 1/16"Ø PUNCHED HOLES FOR 3/4"Ø RODS WITH STD ASTM F844 WASHERS IN LIEU OF PLATE WASHERS.

ANCHOR ROD



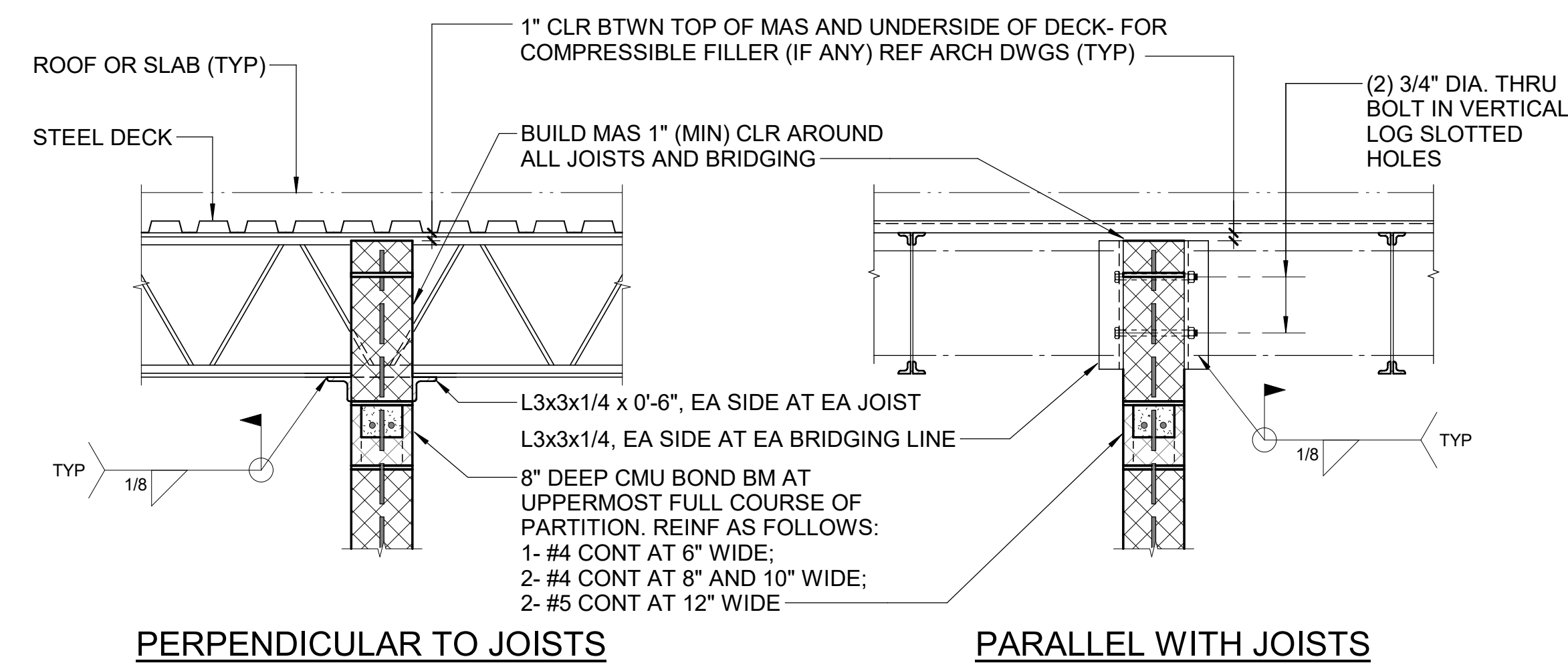






NTS

NOTE: PROVIDE SUPPORT FRAME AT EACH JOIST OR 6'-0" OC MAX



## NTS

NTS NOTE: PROVIDE SUPPORT FRAME AT EACH JOIST OR 6'-0" OC MAX

The diagrams illustrate the reinforcement details for concrete walls in various locations:

- CORNER:** Shows a corner wall section with reinforcement bars (EQ) extending from the corner. The wall thickness is indicated.
- INTERSECTION:** Shows a wall intersection with reinforcement bars (EQ) and a vertical bar (1 - VERT BAR) extending from the intersection.
- TYPICAL:** Shows a typical wall section with reinforcement bars (EQ) and a vertical bar (1 - VERT BAR) extending from the wall. The wall thickness is indicated.
- AT VERT CONTROL JOINT:** Shows a wall section at a vertical control joint with reinforcement bars (EQ) and a vertical bar (1 - VERT BAR) extending from the joint. The wall thickness is indicated. The control joint is marked with a dashed line and labeled "CONTROL JT - REF ARCH DWG".
- BEAM BEARING AT END:** Shows a wall section at the end of a beam with reinforcement bars (EQ) and a vertical bar (1 - VERT BAR) extending from the wall. The wall thickness is indicated. The beam is labeled "CL STEEL BM ABOVE - REF FRAMING PLAN FOR LOCATION".

## NTS

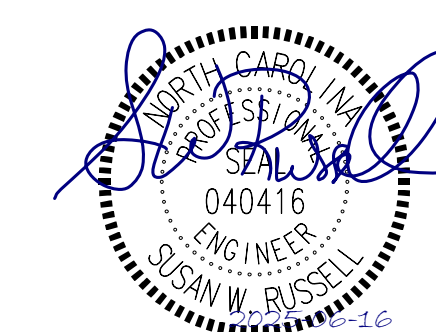




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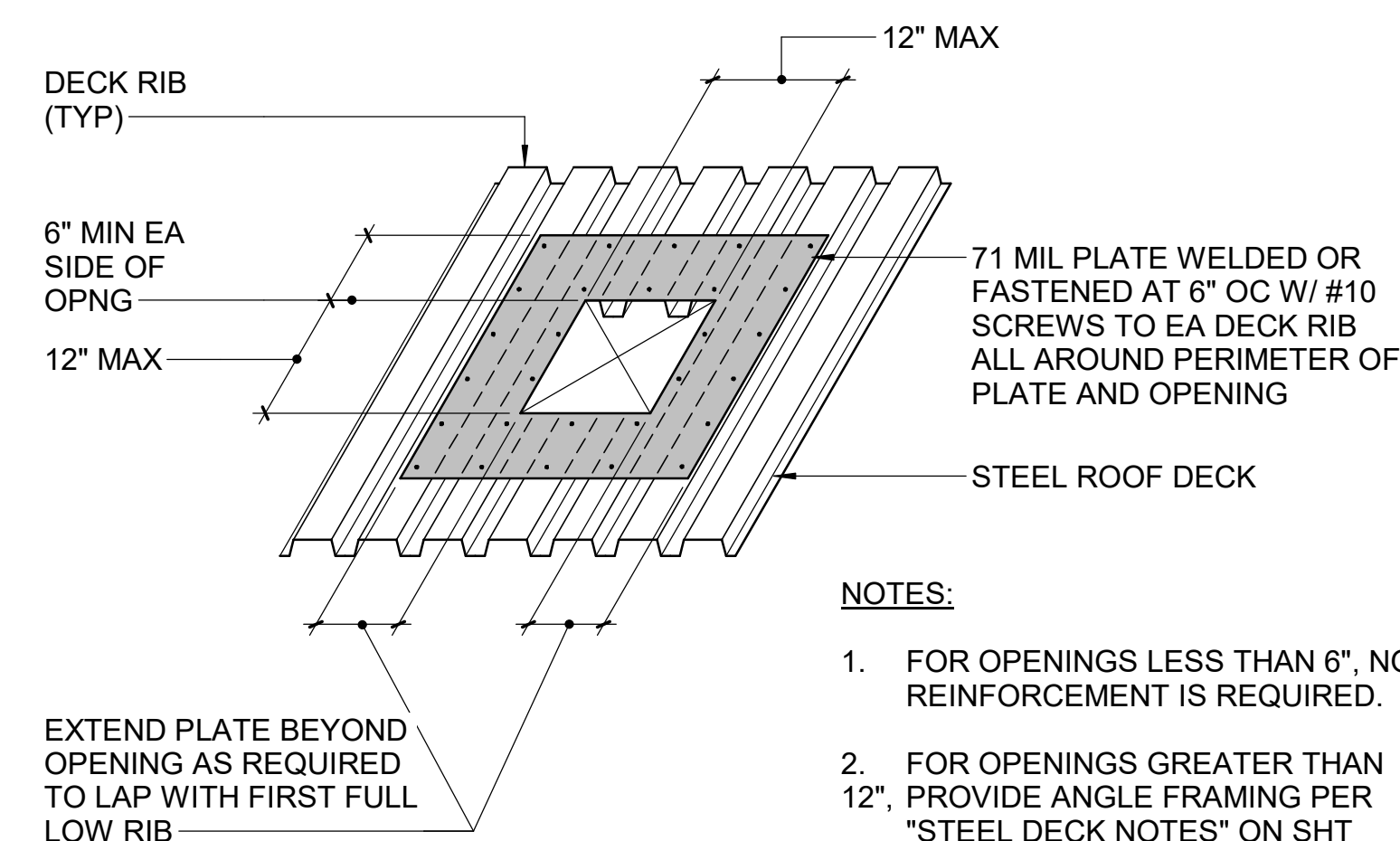
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## SHEET TITLE

TYPICAL DETAILS

S504



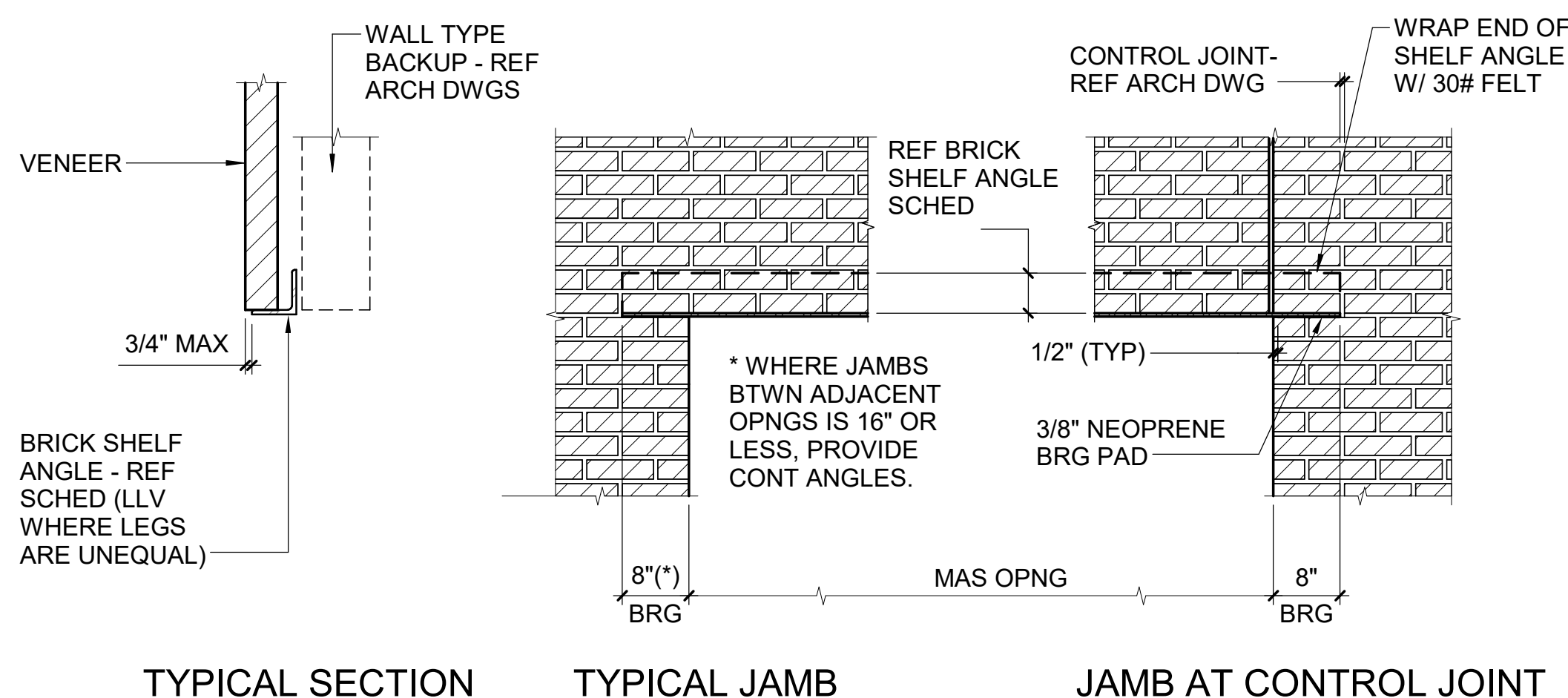
### TYPICAL STEEL ROOF DECK OPENING DETAIL

NTS

BRICK SHELF ANGLE SCHEDULE	
CLEAR SPAN	SIZE
0 TO 4'-0"	L6x4x3/8 (LLH)
4'-1" TO 6'-0"	L6x6x3/8
6'-1" TO 10'-0"	L7x4x3/8 (LLV)

NOTES:

- NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
  2. SHELF ANGLE SCHEDULE APPLIES ONLY TO SHELF ANGLES NOT OTHERWISE DETAILED.



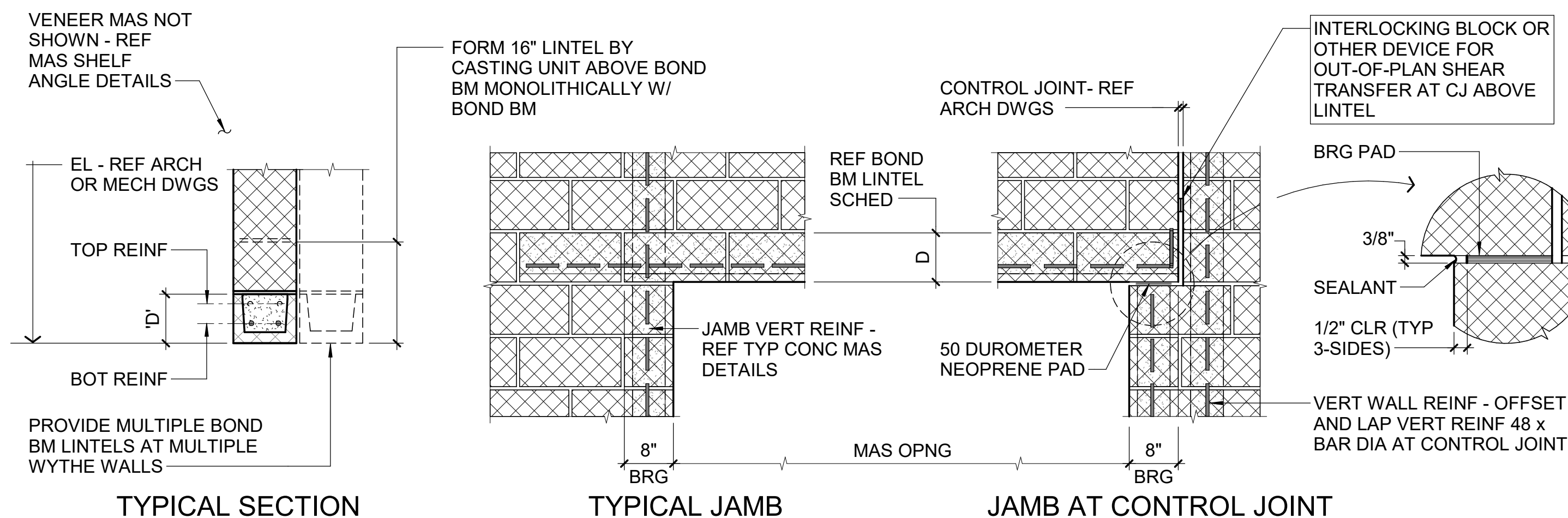
## BRICK SHELF ANGLE DETAILS

NTS

BOND BEAM LINTEL SCHEDULE			
CLEAR SPAN	DEPTH 'D'	REINFORCING	
		8" WIDE	12" WIDE
0 TO 3'-4"	8"	2#4 BOTTOM	2#5 BOTTOM
3'-5" TO 6'-4"	16"	2#5 BOTTOM	2#5 BOTTOM

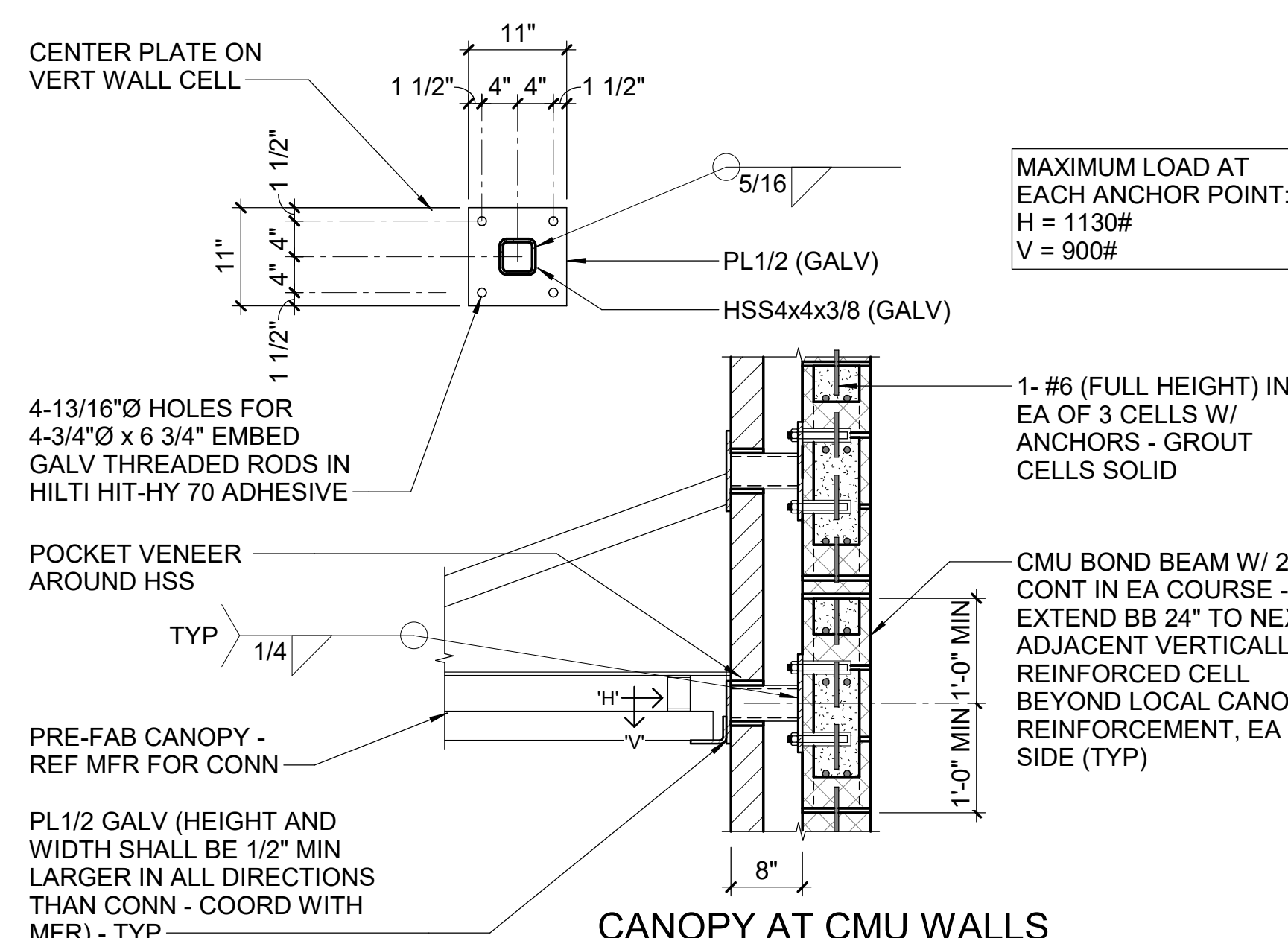
NOTES:

- NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS
  2. REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
  3. SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



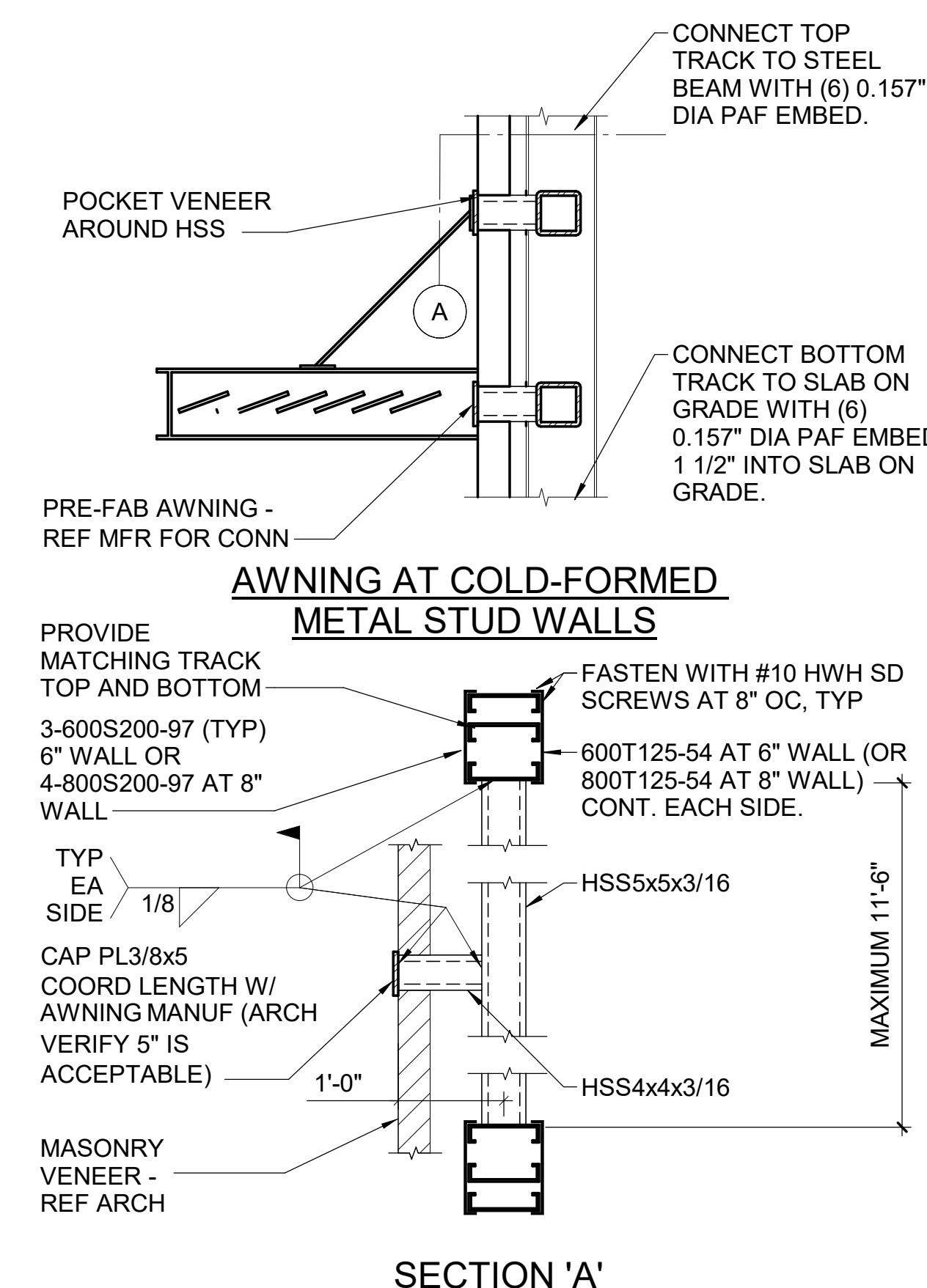
## BOND BEAM LINTEL DETAILS

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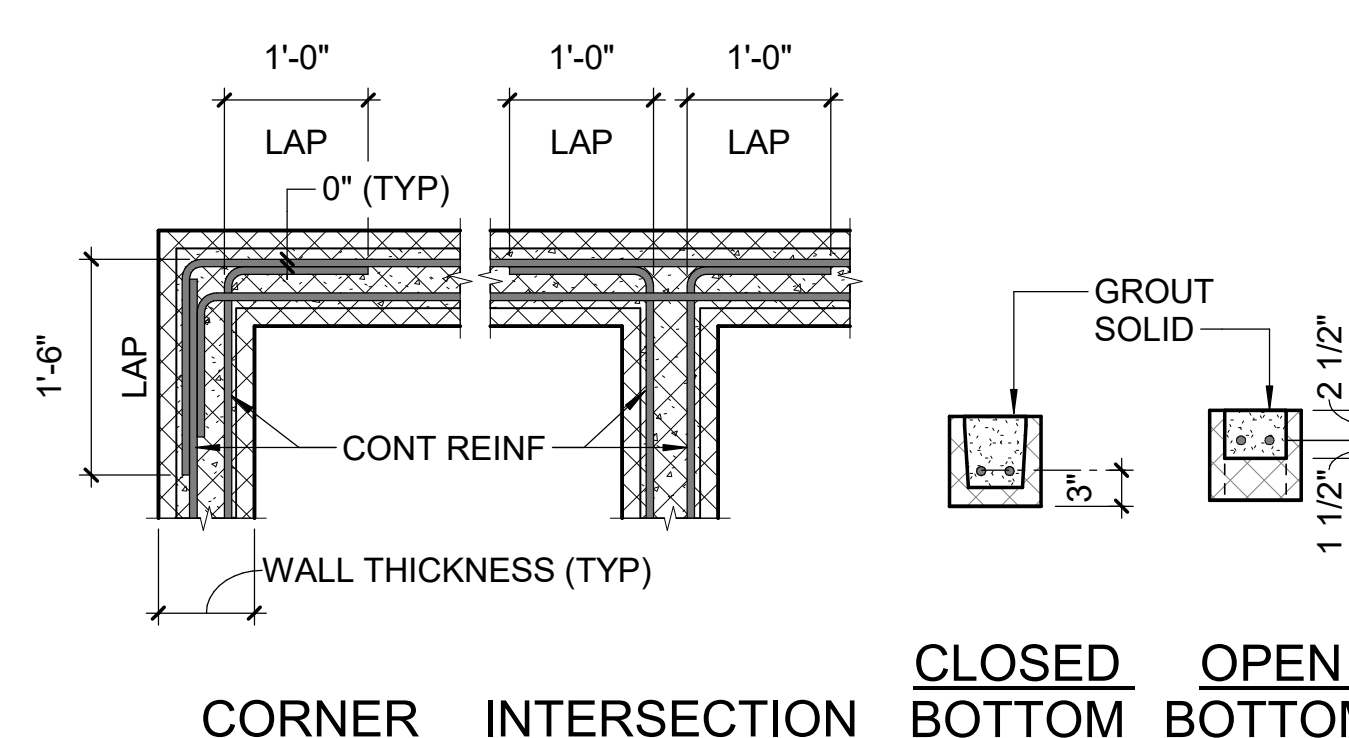
## TYPICAL CANOPY AND AWNING ATTACHMENT DETAILS

NTS



## TYPICAL BOND BEAM REINFORCING DETAILS

NTS





OPENING SCHEDULE				
OPENING WIDTH	JAMB	HEADER SIZE		SILL SIZE
	STUDS	VERT	HORIZ	HORIZ
0'-0" TO 3'-4"	2-600S162-43	2-600S162-54	2-600T125-43	2-600T125-43
3'-5" TO 6'-0"	2-600S162-54	2-600S162-68	2-600T125-54	2-600T125-54
6'-1" TO 10'-0"	3-600S162-54	2-1200S162-97	2-600T125-68	2-600T125-68

PC 600T150-43 BLOCKING AT 8'-0" OC ALONG LENGTH OF WALL. CLIP FLANGE AT EACH END OF BLOCKING TO FORM VERTICAL AND ATTACH TO EACH STUD WITH 4-#12 SDS (2 EACH FLANGE)

METAL STUD (TYP)

SPLICE BRIDGING AT BLOCKING AND ATTACH WITH 2-#12 SDS (TYP)

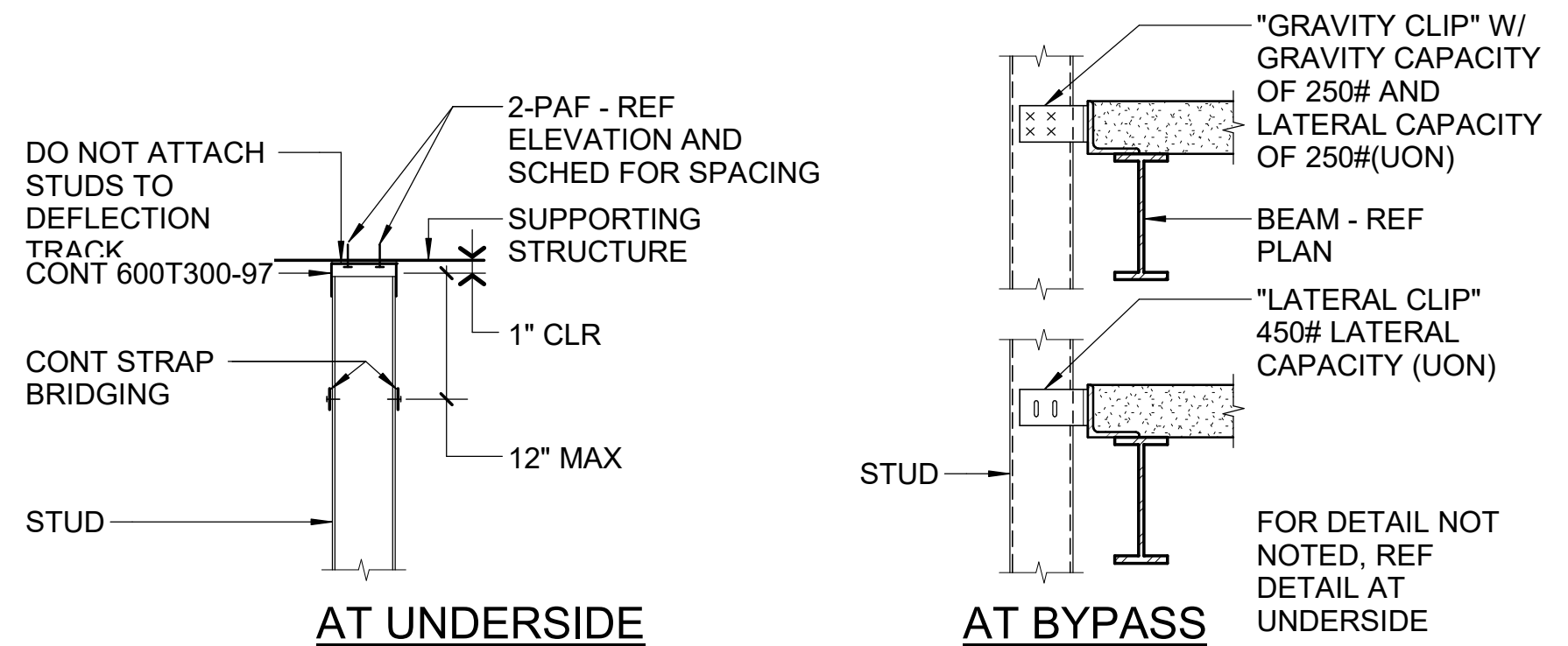
AT CONTRACTOR'S OPTION INSTALL 16 GA BENT PLATE EACH END OF TRACK BLOCKING. ATTACH TO BLOCKING AND TO STUD WITH 4-#12 SCREWS EACH LEG

2"x20 GA CONT STRAP BRIDGING AT HORIZONTAL PANEL EDGES EACH SIDE OF STUDS. ATTACH TO EACH STUD WITH #12 SDS (NOTE 2)

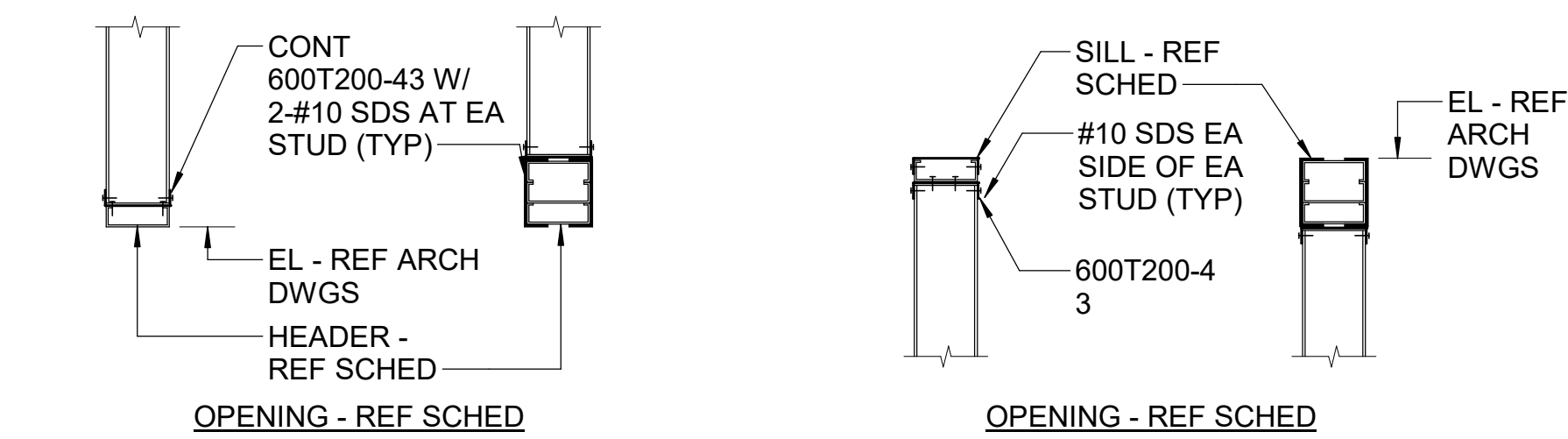
#### NOTES:

- BRIDGING MUST BE AT 4'-0"OC VERTICALLY UON. BLOCKING/BRIDGING MUST BE LOCATED TO ALIGN WITH HORIZONTAL PANEL EDGES.
- IF EXTERIOR FACE OF STUDS ARE SHEATHED DURING INSTALLATION, STRAP BRIDGING IS REQUIRED ON THE INTERIOR FACE ONLY.
- USE LOW PROFILE SCREWS AS REQUIRED FOR ARCHITECTURAL REQUIREMENTS.

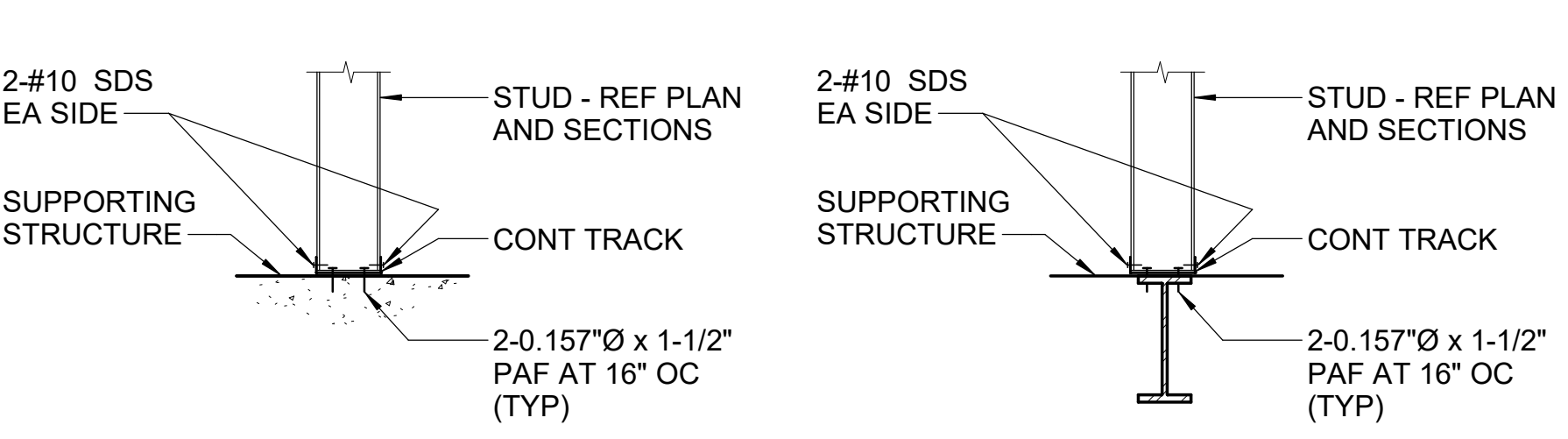
#### TYPICAL BRIDGING DETAIL



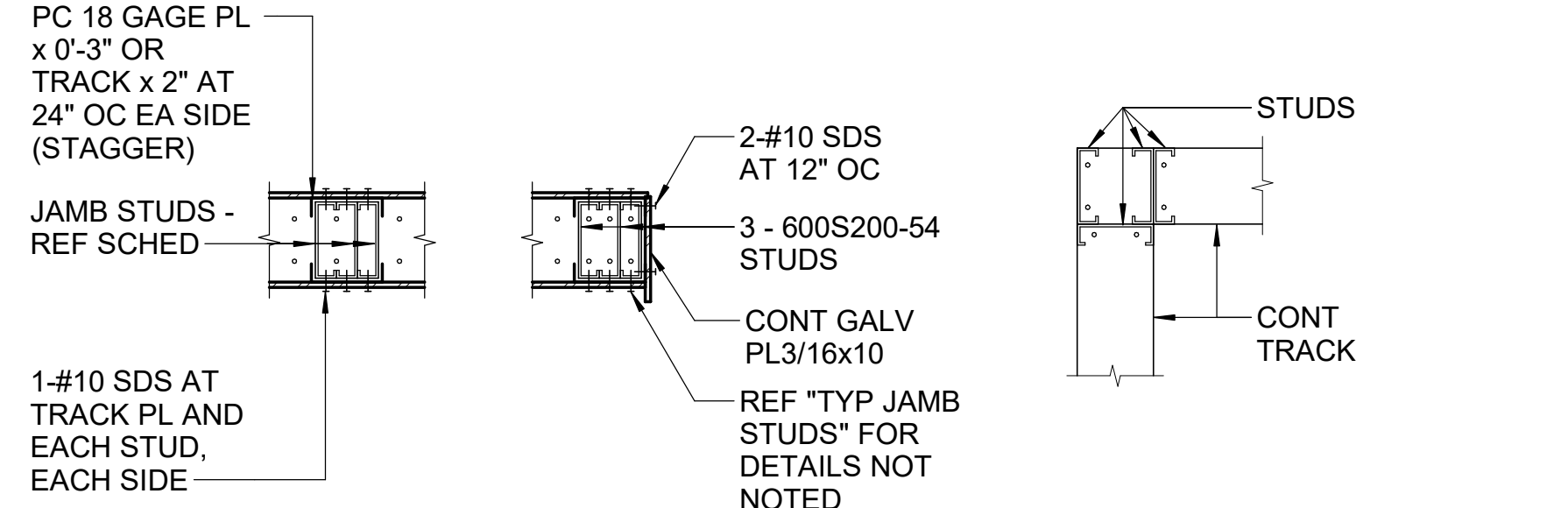
#### DETAIL AT SUPPORT



#### DETAIL AT OPENING HEAD

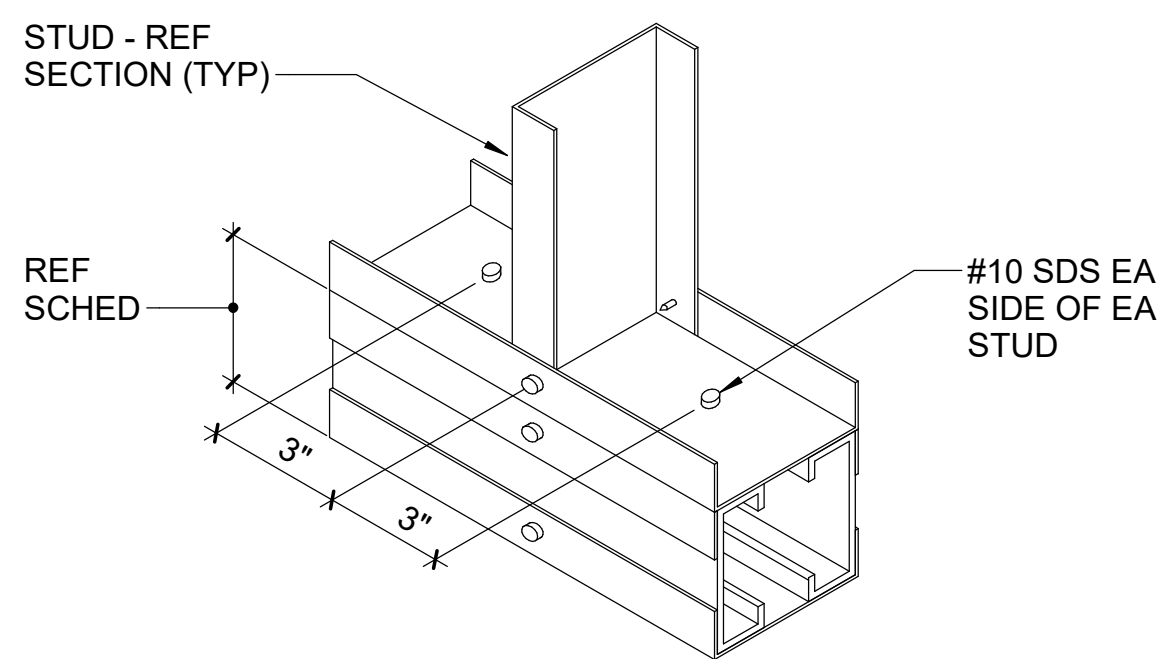
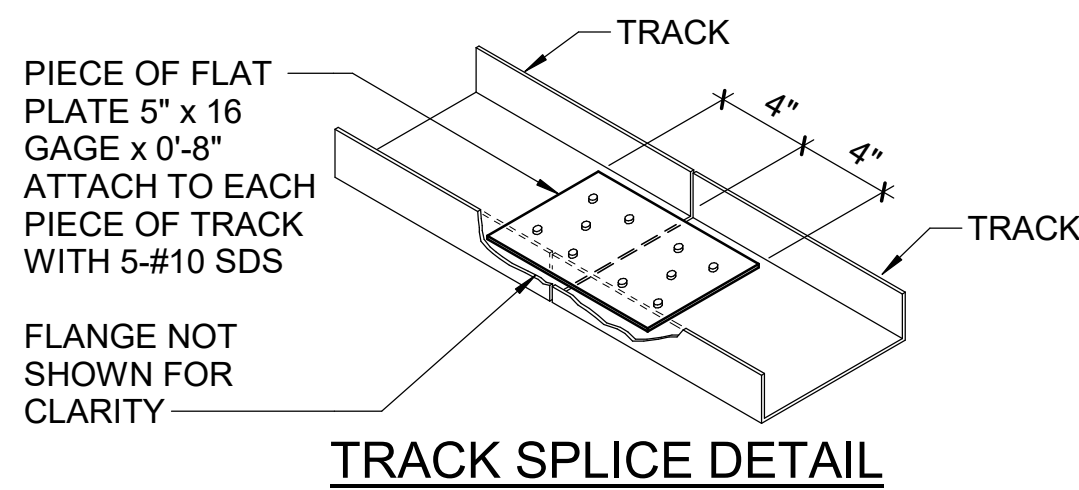


#### DETAIL AT CONC SUPPORT

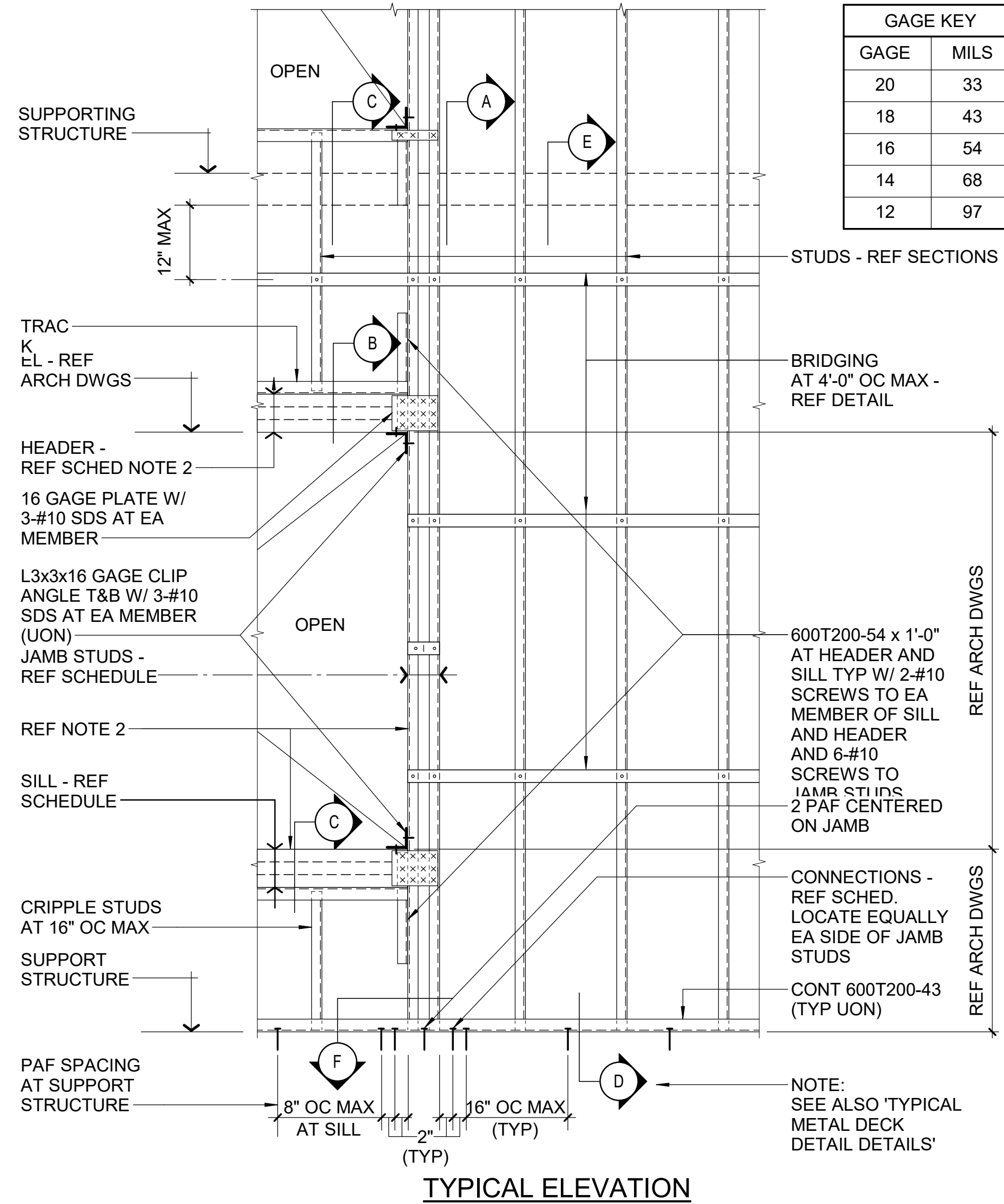
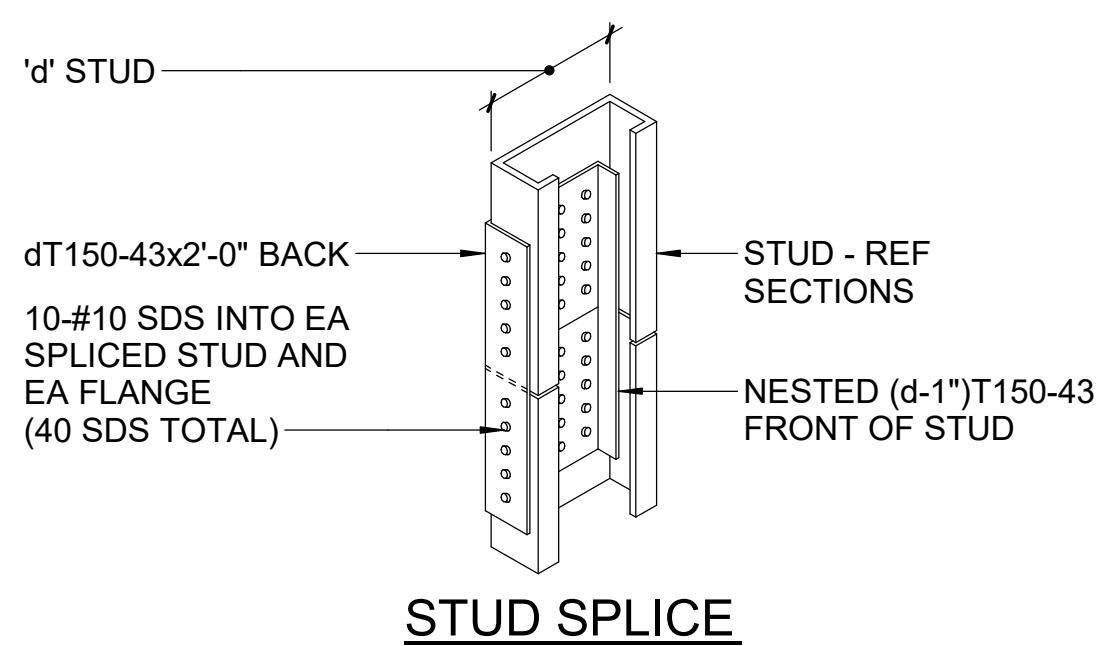


#### TYPICAL JAMB STUDS

#### DETAIL AT JAMBS



#### TRACK-TO-BOX BEAM CONNECTION DETAIL



#### METAL STUD FRAMING NOTES:

- STUDS MUST BE 600S162-54 AND SPACING MUST BE 16" ON CENTER MAXIMUM, TYPICAL, UNLESS OTHERWISE NOTED.
- PROVIDE INSULATION INDICATED ON THE ARCH DWGS IN AREAS BETWEEN BUILT-UP MEMBERS INCLUDING HEADERS, SILL, JAMB, ETC.
- SCREWS ARE SELF DRILLING SCREWS (SDS), MINIMUM SCREW SPACING AND EDGE DISTANCE MUST BE 3/4" IN ANY DIRECTION, TYPICAL.
- POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS, UNLESS OTHERWISE NOTED:  
STEEL: SHEAR = 600 LBS; TENSION = 250 LBS  
CONCRETE: SHEAR = 260 LBS; TENSION = 255 LBS
- USE LOW PROFILE SCREWS AS REQUIRED FOR ARCHITECTURAL REQUIREMENTS.
- AT CURVED WALLS, IN LIEU OF STANDARD TRACK, PROVIDE CURVED TRACK AT TOP AND BOTTOM OF WALL STUDS. SHOP/HAND BEND TO MATCH WALL RADIUS. MECHANICALLY SHOP CURVE HEADER STUD MEMBERS.

#### TYPICAL COLD-FORMED METAL FRAMING DETAILS

NTS

#### PROJECT INFORMATION

## TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS

6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

#### SEALS

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#### DKA JOB NUMBER

2015

#### REVISIONS

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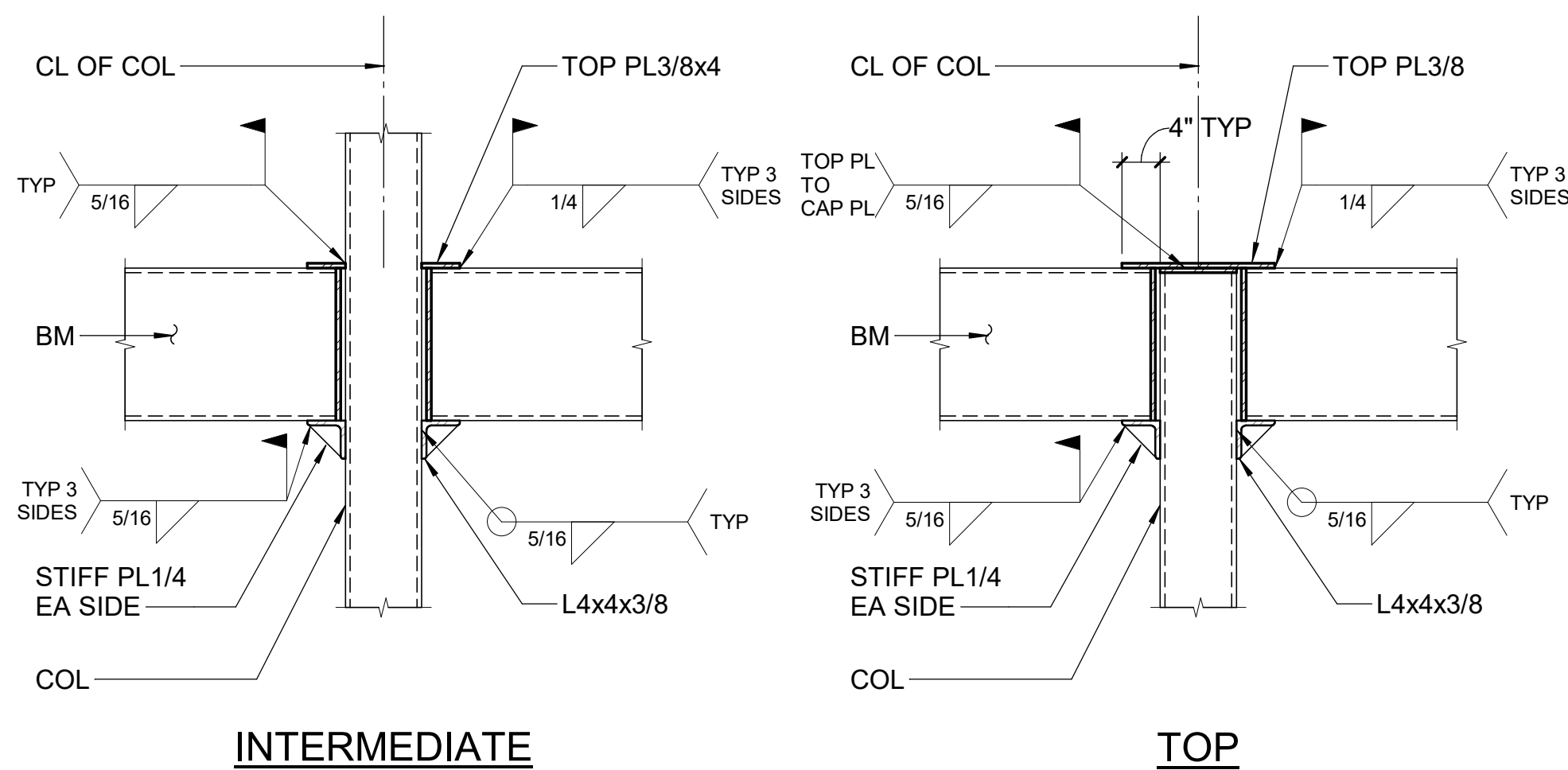
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TYPICAL DETAILS

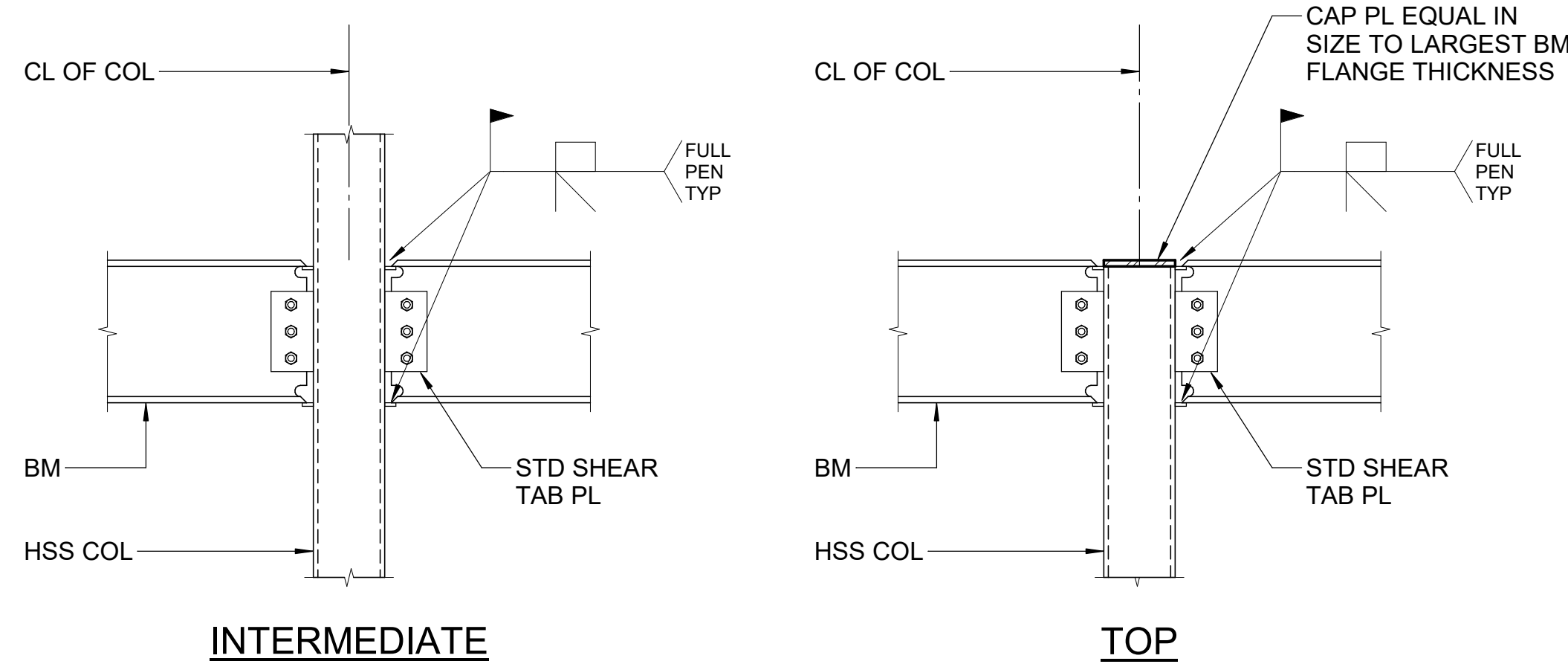
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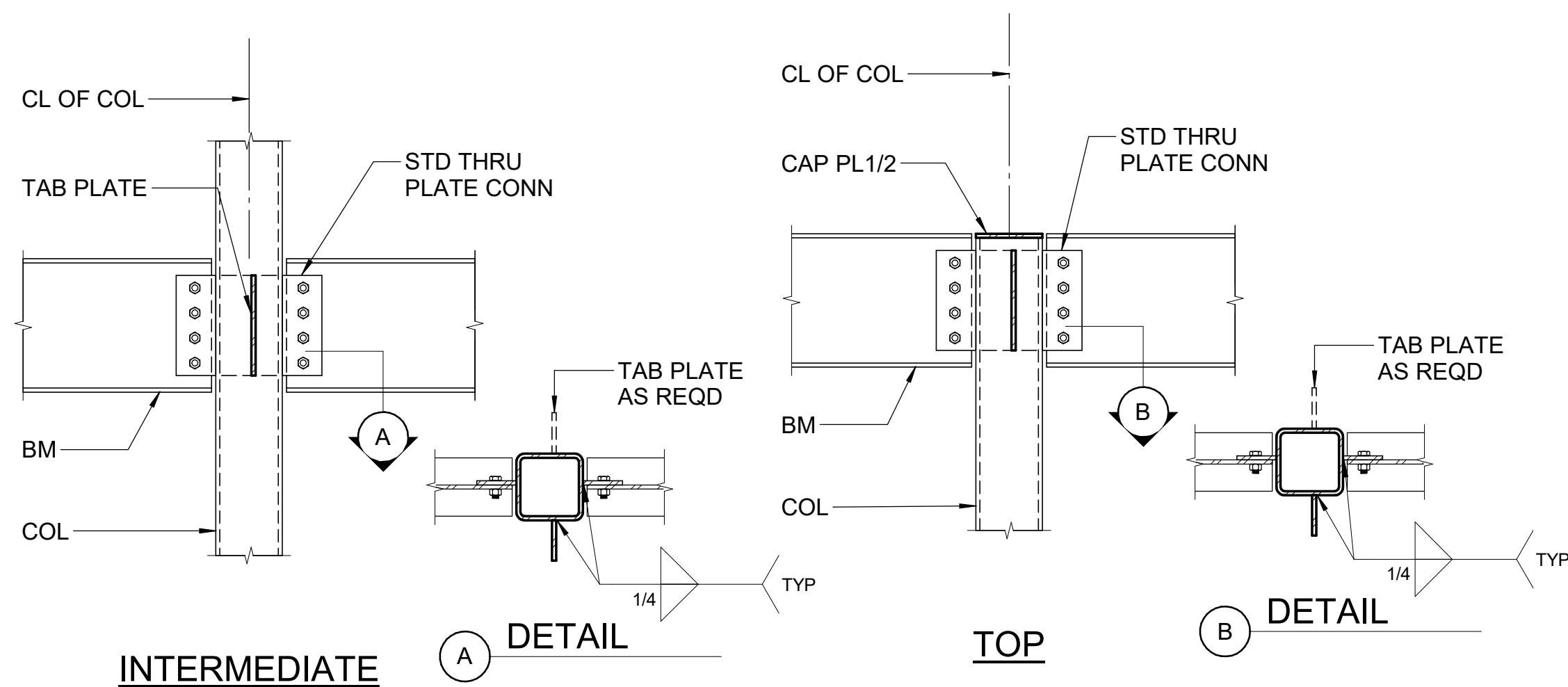
**TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS**

NTS



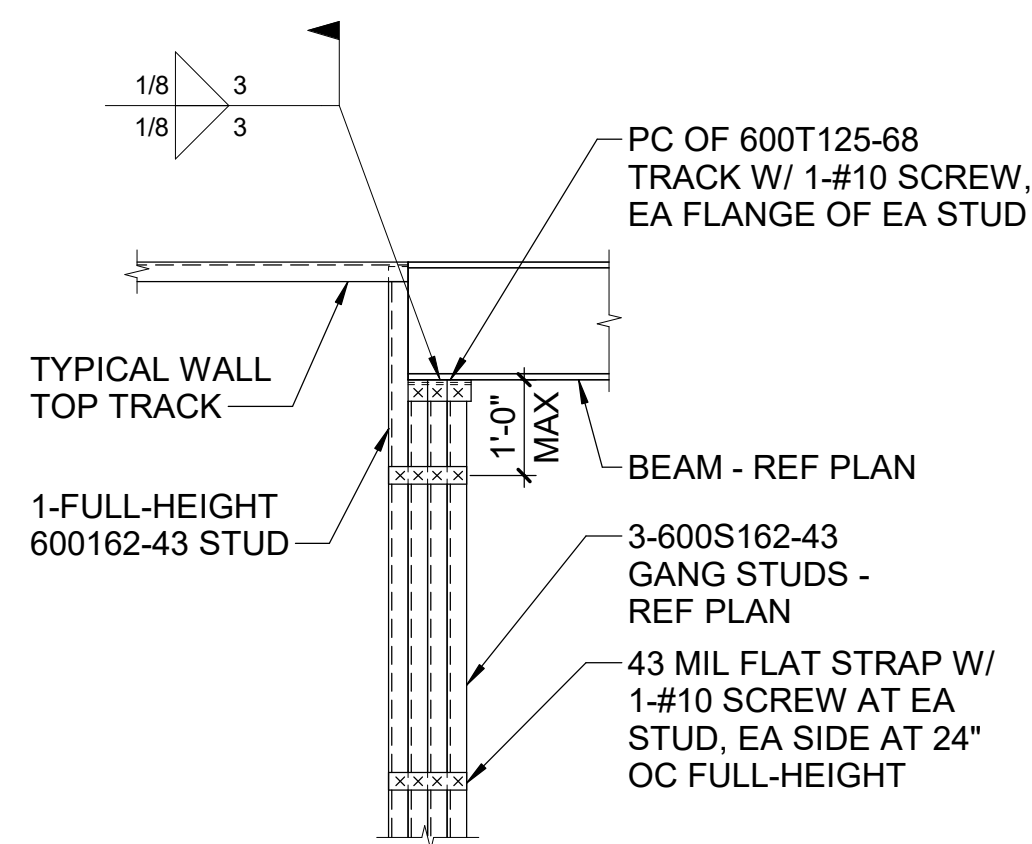
**TYPICAL BEAM TO HSS COLUMN - MOMENT CONNECTION**

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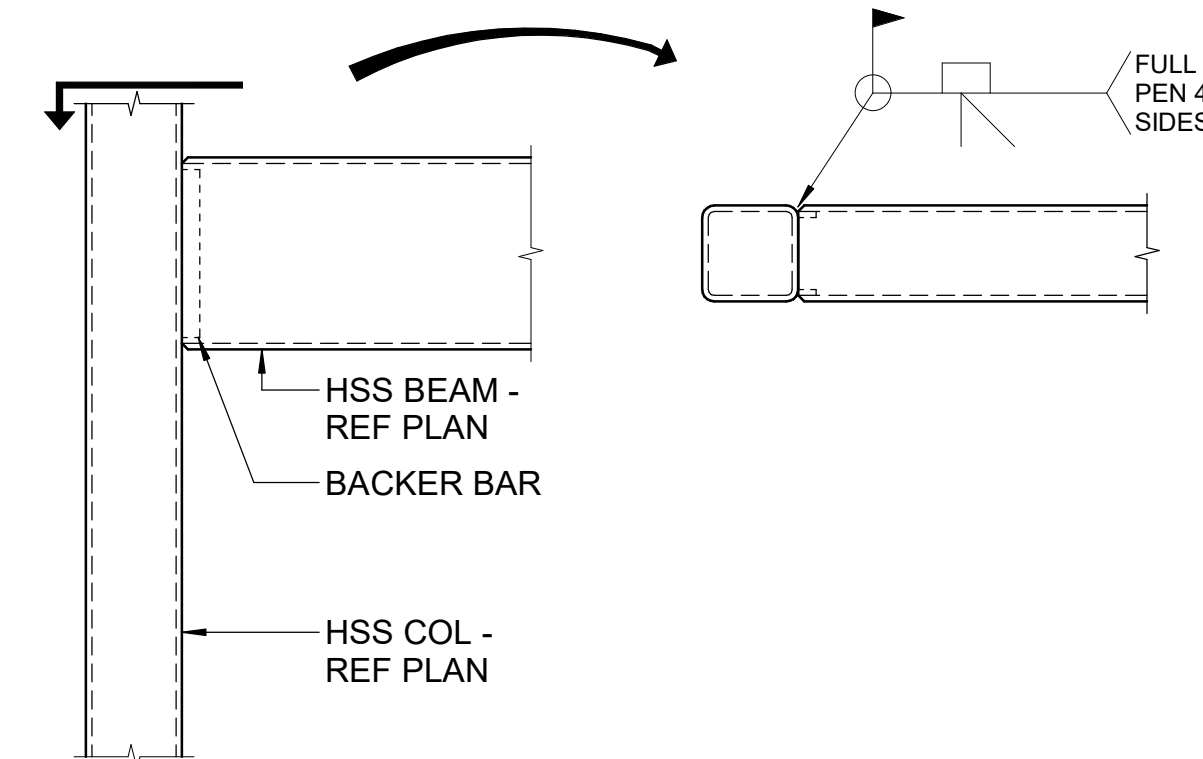
**TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS**

NTS



**TYPICAL STEEL BEAM BEARING ON GANG STUD DETAIL**

NTS

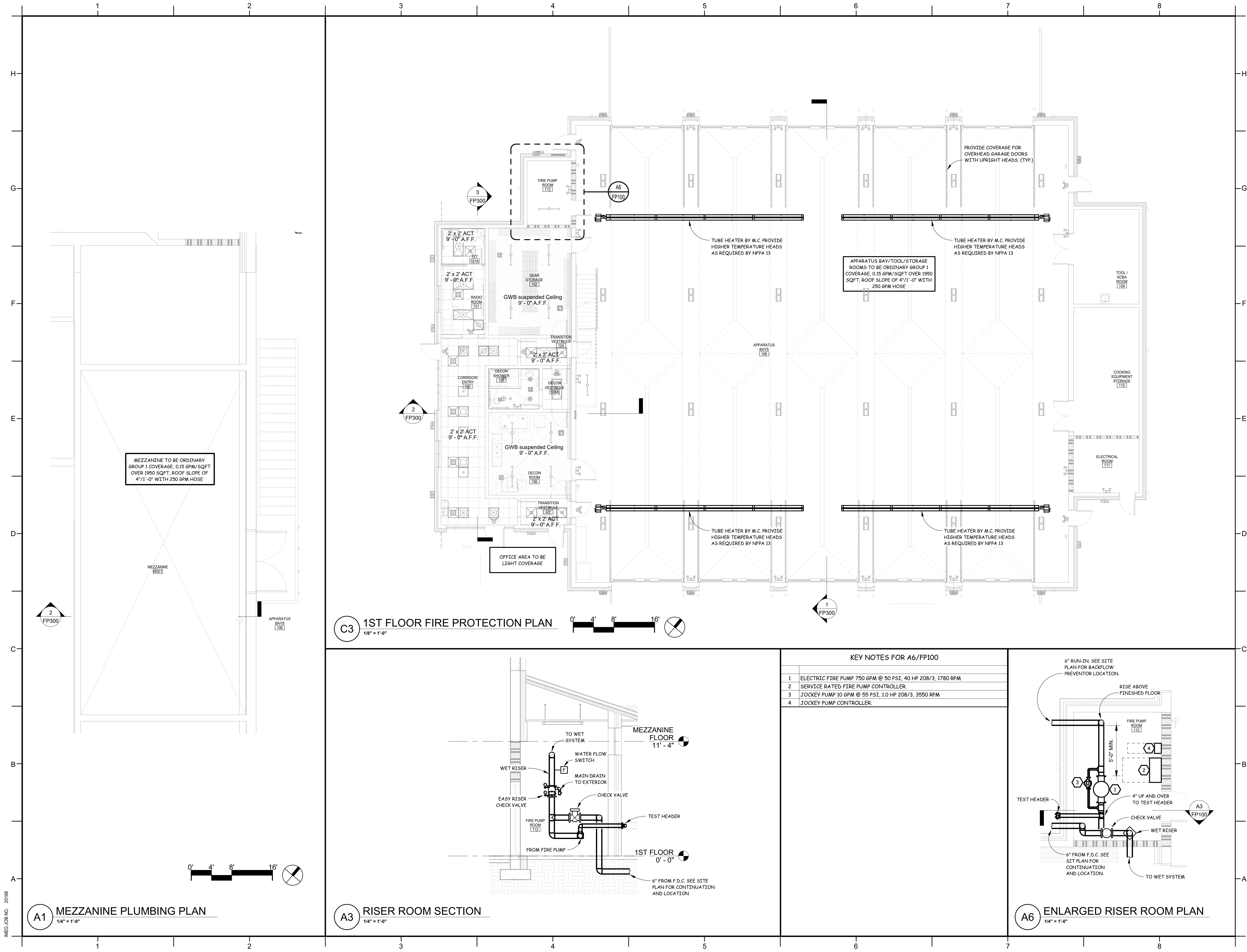


**TYPICAL HSS TO HSS MOMENT CONNECTION DETAIL**

NTS



IMEG JOB NO. 20168





SPRINKLER DESIGN DATA															
PROJECT NAME: Town of Farmville Fire Station & Headquarters						SYSTEM: WET		UNIT: 1							
PROJECT STREET ADDRESS: 4001 May Boulevard, Farmville, NC						SYSTEM SQ. FT: 27840		DESIGN PRESS: 1780							
OWNER: TOWN OF FARMVILLE						DESIGNER: ATLANTIC ENGINEERS		DATE: 6/16/25							
DESIGNED BY: ATLANTIC ENGINEERS						PHONE: 919-571-1111		TOTAL BLDG. HOA: 55-0							
HAZARD: LIGHT/ORDINARY GROUP 1															
DESIGN SUMMARY															
DESIGN METHOD	SYSTEM #1	SYSTEM #2	SYSTEM #	SYSTEM #	SYSTEM #										
SYSTEM NO. #	1	2													
LOCATION	DOMESTIC	TRUCK BAY													
TYPE OF SYS.	WET	WET													
HAZARD CLASS	LIGHT HAZARD	ORDINARY HAZARD													
CRITERIA FLOW	NFPA 13	NFPA 13													
DESIGN AREA	900 SQFT	1500 SQFT													
SPRINK	225 SQFT	130 SQFT													
ORIGIN	Q1	Q10													
K-FACTOR	5.6	5.6													
HOSE ALLOWANCE	100	250													
REQUIREMENTS															
GPM REQ															
PSI REQ															
TYPE #															
SAFETY FACTOR															
GPM															
PSI															
WATER SUPPLY INFORMATION															
TESTED BY	CURRY ENGINEERING		DATE/TIME		10/11/23 10:00 AM		PRESSURE HYDRANT								
HYDRANT ELEVATION	76	FT	FLOW HYDRANT			FT	STATIC								
STATIC	55.5	PSI	RESIDUAL		41	PSI	FLOW			942	GPM				
COPY OF WATER TEST DATA INCLUDED W/CALCS ARE REQUIRED															
FIRE PUMP DATA															
RATED GPM	N/A		RATED PRESSURE		N/A		DIESEL HP		N/A						
ELECTRIC VOLTS	N/A		BATTERY PRESSURE		N/A		DISCHARGE TIME		N/A						
RESIDUAL (PSI)	N/A		FLOW (GPM)		N/A		COMBINED GPM		N/A						
COMBINED STATE	N/A		COMBINED RESIDUAL		N/A		SOLUTION NODE		N/A		DISCHARGE NODE	N/A			
IF STORAGE IS GREATER THAN 12' COMPLETE COMMODITY STORAGE DESIGN INFO.															
COMMODITY DESCRIPTION			N/A			STORAGE TYPE (RACK, BIN)			N/A						
COMMODITY CLASS			N/A			STORAGE HEIGHT			N/A						
STABLE/UNSTABLE			N/A			OPEN/CLOSE ARRAY			N/A						
FIGURE 4 CURVE			N/A			DENSITY			N/A						
HEIGHT			N/A			CLEARANCE			N/A						
FACTOR			N/A			FACTOR			N/A						
DESIGN MINIMUM			N/A			DESIGN MINIMUM			N/A						
FINAL DESIGN			N/A			FINAL DESIGN			N/A						
INITIAL															
SECONDARY															

#### SEISMIC AND WIND REQUIREMENTS FOR MECHANICAL SYSTEMS (PER ASCE 7-05)

- ALL ROOF CURBS/ROOF RAILS INCLUDING THEIR ATTACHMENT TO THE EQUIPMENT AND STRUCTURE MUST BE EVALUATED FOR WIND LOADING. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED.
- SEE SEISMIC INFORMATION CONTAINED ON STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.
- SEE TABLE BELOW FOR SPECIFIC COMPONENT RESTRAINT REQUIREMENTS.
- FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.

#### SEISMIC DESIGN CATEGORY C, COMPONENT IMPORTANCE FACTOR 1.5

#### COMPONENT RESTRAINT REQUIREMENT ASCE 7-05 REFERENCE

SUSPENDED EQUIPMENT INLINE WITH DUCT/PIPE	RESTRAIN IF >75 LB (SEE NOTE 3,4)	13.6.7
SUSPENDED EQUIPMENT NOT INLINE WITH DUCT/PIPE	RESTRAIN ALL	13.6.3
DUCTILE PIPING	PIPE GREATER THAN 2" (SEE NOTES 5, 6)	13.6.8
SUSPENDED DUCTWORK	DUCTWORK GREATER THAN 6 SQFT OR LARGER THAN 28" IN DIAMETER (SEE NOTE 6)	13.6.7
COMPONENT CERTIFICATION (NOTE 7)	REQUIRED	13.2.2

#### NOTES:

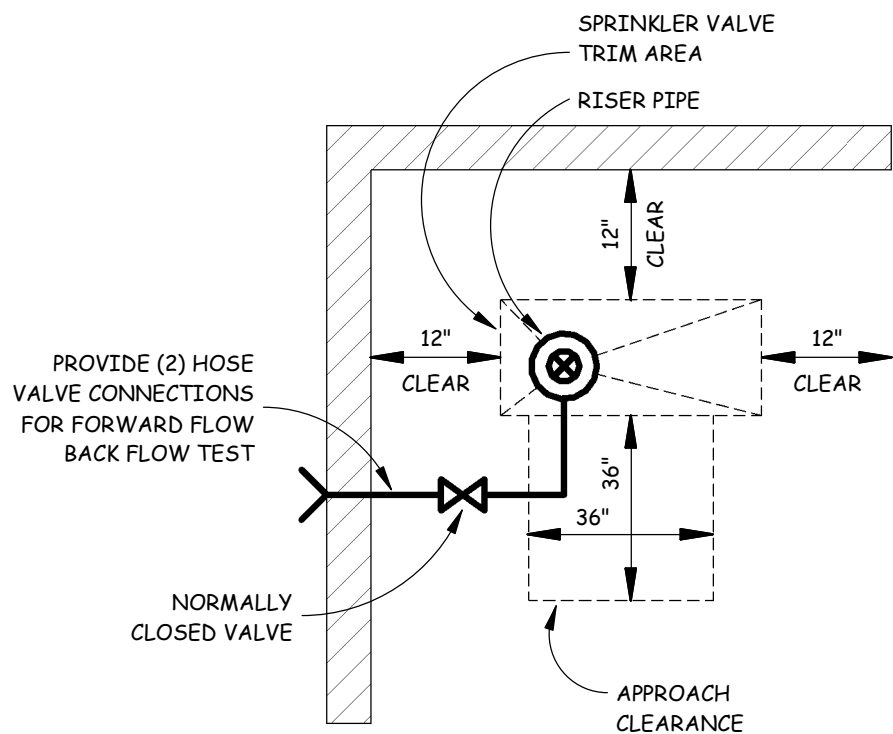
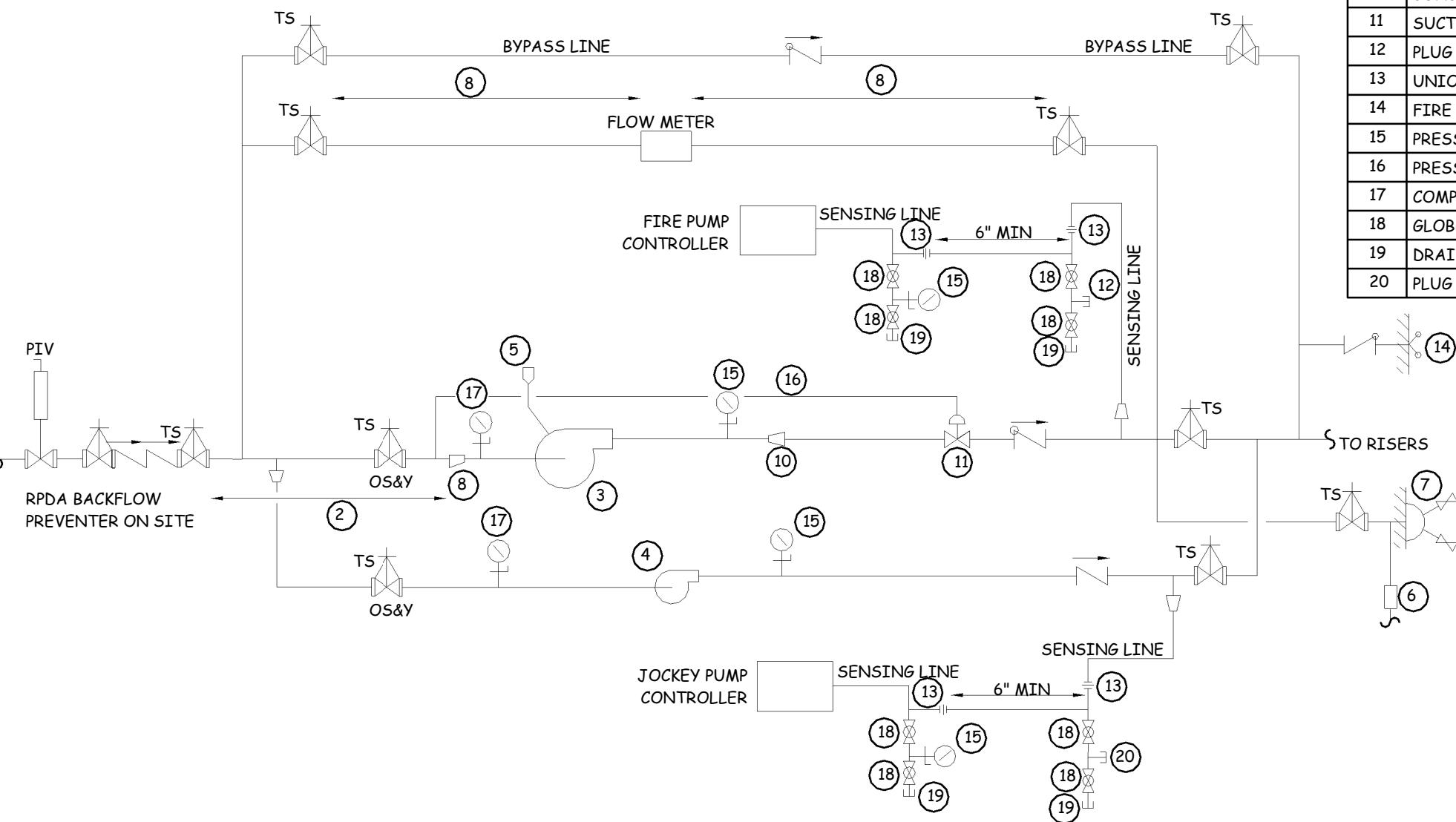
- EQUIPMENT >20 LBS OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
- RESTRAINTS ARE NOT REQUIRED IF COMPONENT WEIGHS LESS THAN 400 POUNDS OR IS AT 4 FEET OR LESS ABOVE FINISHED FLOOR AND HAS FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
- ITEMS WEIGHING LESS THAN 76 LBS. DO NOT NEED RESTRAIN IF THE ATTACHED DUCTWORK/PIPING IS RESTRAINED AND POSITIVELY ATTACHED TO THE EQUIPMENT.
- FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
- ALL NON-DUCTILE PIPING (PLASTIC, CAST IRON, CERAMIC) MUST BE RESTRAINED.
- RESTRAINT IS NOT REQUIRED IF SUSPENDED 12" OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
- COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY THE ENGINEER OF RECORD.

#### SITE SPECIFIC REQUIREMENTS FOR TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS:

- ALL SPRINKLER PIPING LARGER THAN 2" SHALL BE RESTRAINED IN ACCORDANCE WITH NFPA 13.
- ALL DOMESTIC WATER, SEWER VENT AND NATURAL GAS PIPING LARGER THAN 2" SHALL BE RESTRAINED WITH CABLES AT 45° ANGLES AND SECURED TO STRUCTURE. PIPING INSTALLED WITHIN 12" OF STRUCTURE SHALL BE EXEMPT.
- GAS FIRED UNIT HEATERS SHALL BE RESTRAINED WITH RIGID RODS AND CABLES. CABLES SHALL BE SECURED TO STRUCTURE AND HEATER IN FOUR DIRECTIONS. PROVIDE FLEXIBLE GAS AND ELECTRICAL CONNECTIONS.
- DOMESTIC WATER HEATERS SHALL BE RESTRAINED WITH 3/4" WIDE, STEEL STRAPS SECURE TO WALL WITH EXPANSION ANCHORS. PROVIDE NON-COMBUSTIBLE BLOCKING TO PROVIDE CLEARANCE TO ADJACENT WALL. PROVIDE (2) STRAPS PER HEATER. PROVIDE FLEXIBLE WATER AND GAS CONNECTIONS.

#### NOTE:

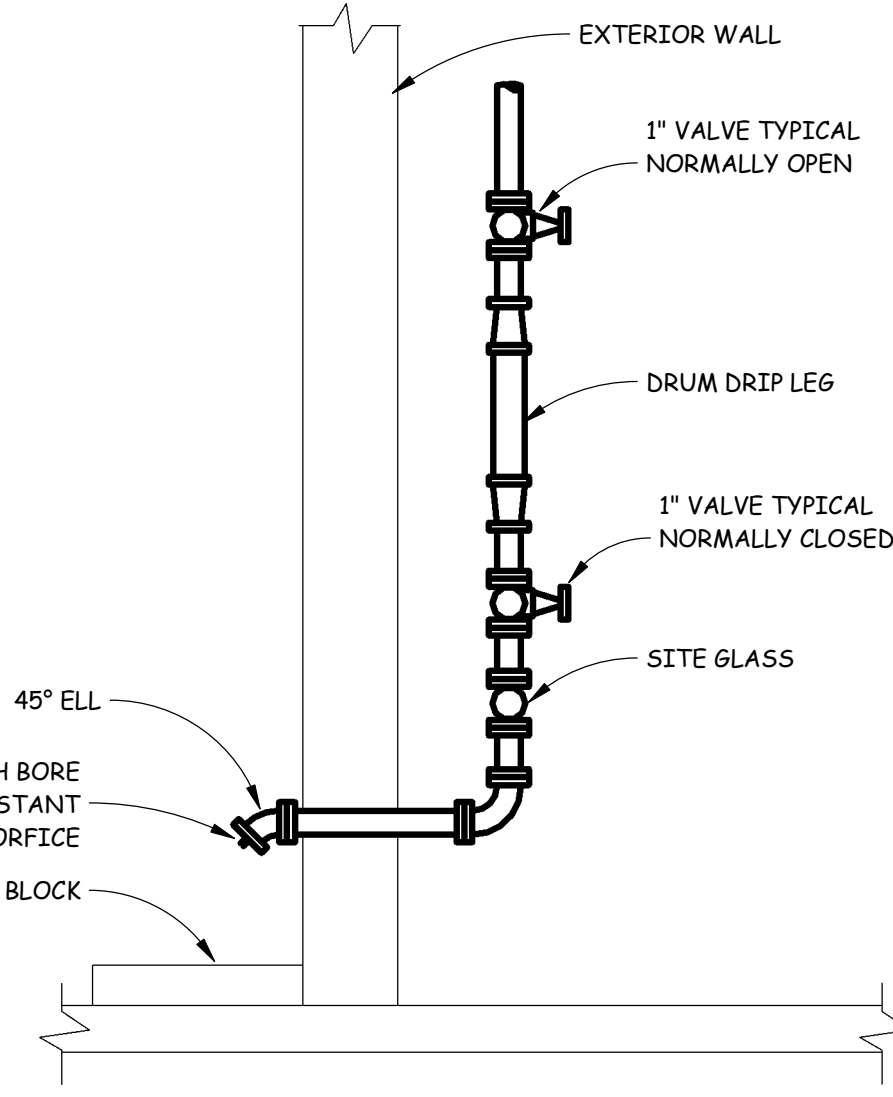
- PROVIDE WITH PRESSURE SWITCH & LOW AIR ALARM PRESSURE SWITCH.
- PROVIDE 36" CLEARANCE IN FRONT OF RISER AND 12" ON EACH SIDE AND REAR OF RISER.



NOTE:  
WHEN RISER IS LOCATED IN AN OPEN SPACE (i.e. WAREHOUSE, ETC.) MECHANICAL PROTECTION IS REQUIRED. (BOLLARDS, ETC.)

#### 1 RISER CLEARANCE DETAIL1

NTS



#### 2 AUXILIARY DRAIN DETAIL

NTS

NO	EQUIPMENT DESCRIPTION
1	ELECTRIC FIRE PUMP 750 GPM @ 50 PSI, 40 HP 208/3, 1780 RPM
2	MINIMUM 10 PIPE DIAMETERS
3	FIRE PUMP
4	JOCKEY PUMP 10 GPM @ 55 PSI, 1.0 HP 208/3, 3550 RPM
5	AIR RELEASE VALVE
6	AUTOMATIC BALL DRIP VALVE
7	PUMP TEST HEADER. SIZE AS REQUIRED BY NFPA 20
8	PROVIDE MINIMUM DISTANCES AS REQUIRED BY FLOW METER MANUFACTURER
9	ECCENTRIC REDUCER
10	CONCENTRIC REDUCER
11	SUCTION PRESSURE CONTROL VALVE
12	PLUG
13	UNION WITH NONCORROSIVE DIAPHRAGMS DRILLED FOR 3/32\"/>
14	FIRE DEPARTMENT CONNECTION
15	PRESSURE GAUGE WITH GAUGE COCK
16	PRESSURE SENSING PIPE
17	COMPOUND PRESSURE VACUUM GAUGE WITH GAUGE COCK
18	GLOBE VALVE
19	DRAIN
20	PLUG

## GENERAL NOTES

- THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION. (LIGHTS, PIPES, ETC.)
- EACH SHUT-OFF VALVE SHALL BE EQUIPPED WITH A LISTED TAMPER SWITCH.
- THE SPRINKLER CONTRACTOR SHALL COORDINATE SHUT-OFF TIMES WITH OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL NFPA CODES.
- THE SPRINKLER CONTRACTOR SHALL BE A LICENSED SPRINKLER CONTRACTOR.
- THE SPRINKLER CONTRACTOR SHALL REFER TO THE SITE PLAN FOR THE EXTENT OF THE UNDERGROUND SPRINKLER PIPING.
- WIRING FROM ALL TAMPER SWITCHES AND FLOW SWITCHES TO FIRE ALARM PANEL SHALL BE BY THE ELECTRICAL CONTRACTOR.
- FIRE DEPARTMENT CONNECTION THREADS SHALL MATCH LOCAL AUTHORITY.
- ALL WATER FLOW ALARM SWITCHES SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL PIPE UP TO 2" SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTING. PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLLED GROOVE FITTING.
- ALL HEADS ARE TO BE CENTERED IN TILES UNLESS OTHERWISE NOTED.
- TESTING SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. PRESSURE TEST SHALL BE STATIC WATER AT TEST PRESSURE OF 200 PSIG FOR 2 HOURS DURATION WITHOUT LEAK FROM ANY JOINT OR SEGMENT OF THE PIPING SYSTEM FROM ANY EQUIPMENT OR DEVICE.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO BUILDING AND PROPERTY/MATERIALS OF OTHERS CAUSED BY LEAKS IN SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES OR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED DURING THE INSTALLATION AND TESTING PERIODS OF THE STANDPIPE WORK.
- TESTS PER SECTION 16 OF NFPA 13 TO BE WITNESSED BY THE OWNERS INSURANCE UNDERWRITER(S). THE INSTALLING CONTRACTOR AND THE AUTHORITY HAVING JURISDICTION, SPRINKLER CONTRACTOR TO SUBMIT 3 COPIES OF THE NFPA 13-2002 CONTRACTORS MATERIAL AND TEST CERTIFICATES.
- FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13.
- REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTION OF THE SYSTEM. THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD ADDITIONAL HEADS REQUIRED IN THE FIELD.
- THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD ADDITIONAL HEADS REQUIRED IN THE FIELD.
- THE G.C. TO PAINT EXPOSED PIPING. COORDINATE ROUTING OF PIPING WITH G.C.

## DESIGN SUMMARY

THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD AND ORDINARY GROUP 1. THE DESIGN SHALL BE A HYDRAULIC CALCULATION METHOD GENERATED BY A FIRE SPRINKLER COMPUTER PROGRAM. THE DESIGN SHALL BE PERFORMED BY A NICET LEVEL III TECHNICIAN OR A PROFESSIONAL ENGINEER EXPERIENCED IN FIRE SPRINKLER DESIGN. ALL DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SPRINKLER EQUIPMENT AND MATERIALS TO THE PROJECT ENGINEER OF RECORD FOR REVIEW. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATION OF HANGER SUPPORTS FOR SEISMIC RESTRAINT.

THE FOLLOWING SPECIFIC REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF THE SYSTEM:

- FIRE MAIN FROM THE TAP AT THE UTILITY SYSTEM WATER MAIN INTO THE BUILDING TO ONE FOOT ABOVE THE FINISHED FLOOR AT THE DESIGNATED RISER LOCATION SHALL BE INSTALLED BY THE SITE UTILITY CONTRACTOR.
- SEE GENERAL NOTE 11 FOR PIPE SPECIFICATION.
- SPRINKLER HEADS SHALL BE CENTERED IN ALL LAY-IN CEILING TILES.
- SPRINKLER HEADS SHALL BE SEMI RECESSED PENDENT TYPE WITH CHROME ESCUTHEON.
- RPZ BACKFLOW DEVICE AND FIRE DEPARTMENT CONNECTION TO BE LOCATED IN HOT BOX ON SITE. SEE SITE PLANS FOR LOCATION.
- PROVIDE ORDINARY GROUP 1 HAZARD COVERAGE IN THE FOLLOWING ROOMS WITH EXPOSED UPRIGHT HEADS:
  - TOOL/SCBA ROOM
  - COOKING EQUIPMENT STORAGE
  - APPARATUS BAYS
  - SCBA ROOM
  - COOKING EQUIPMENT STORAGE
  - ELECTRICAL ROOM
  - MEZZANINE
- FINAL SIZE OF FIRE PUMP TO BE DETERMINE BY THE SPINKLER CONTRACTOR. CONTRACTOR SHALL SHALL DETERMINE FINAL PUMP HORSEPOWER AND COORDINATE WITH THE ELECTRICAL CONTRACTOR.

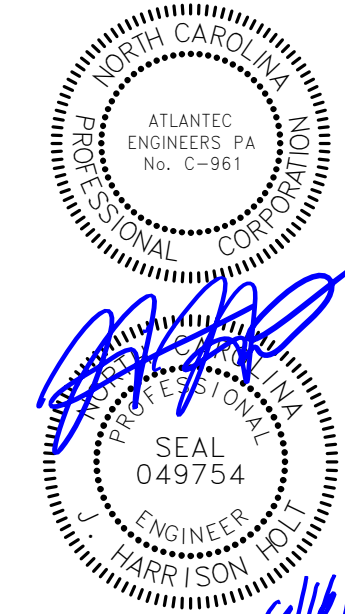
## SYMBOL LEGEND

	SPRINKLER RISER
	SPRINKLER MAIN



TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
PIEDMONT COMMUNITY COLLEGE  
6101 MAY BOULEVARD, FARMVILLE, NC 27828

#### SEALS



DKA JOB NUMBER  
2015

#### REVISIONS

NO.	DESCRIPTION

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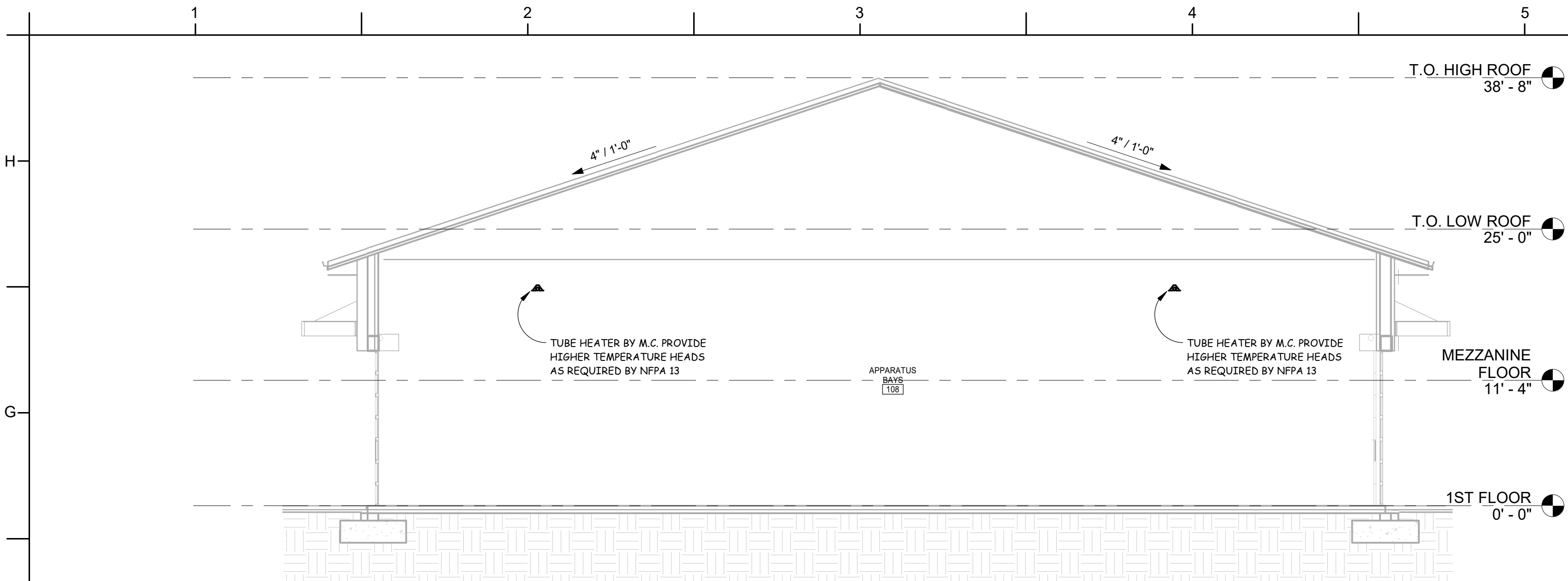
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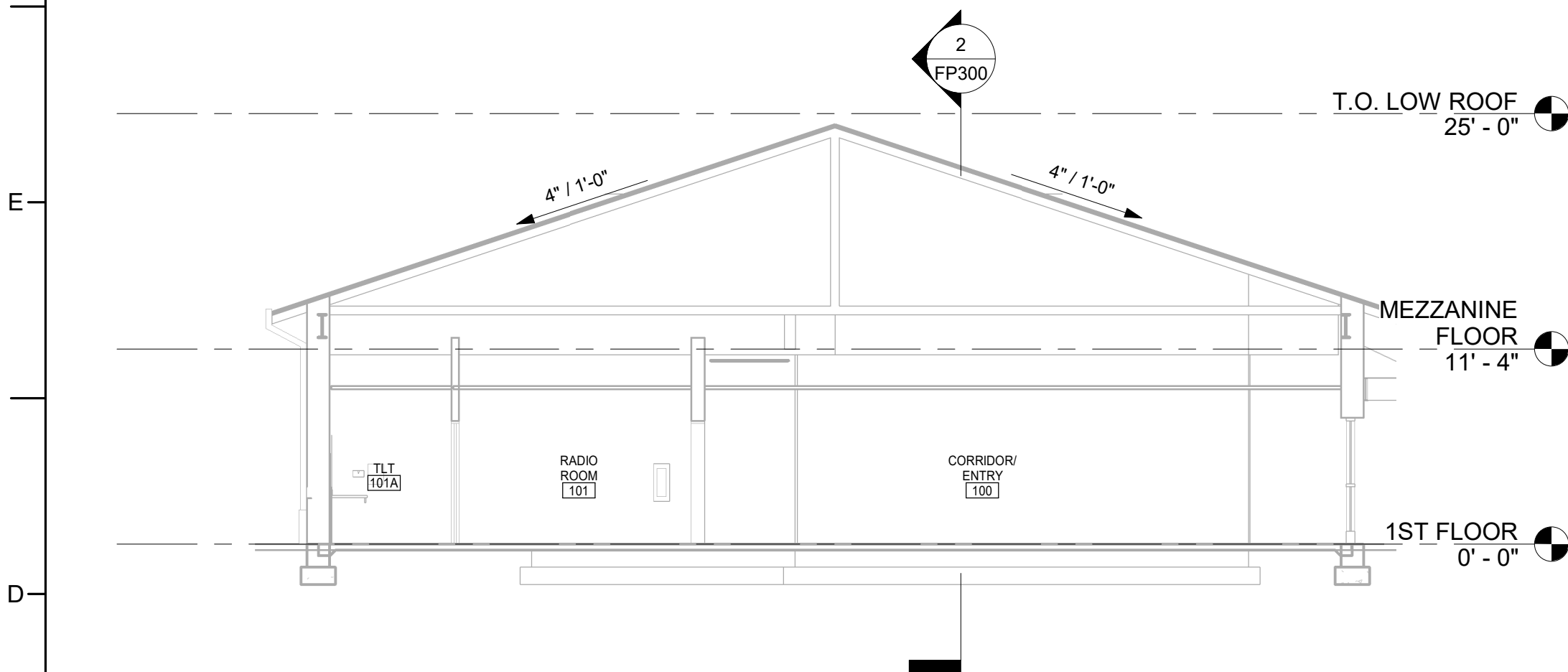
SHEET TITLE  
FIRE PROTECTION  
NOTES, LEGEND,  
AND DETAILS

FP200

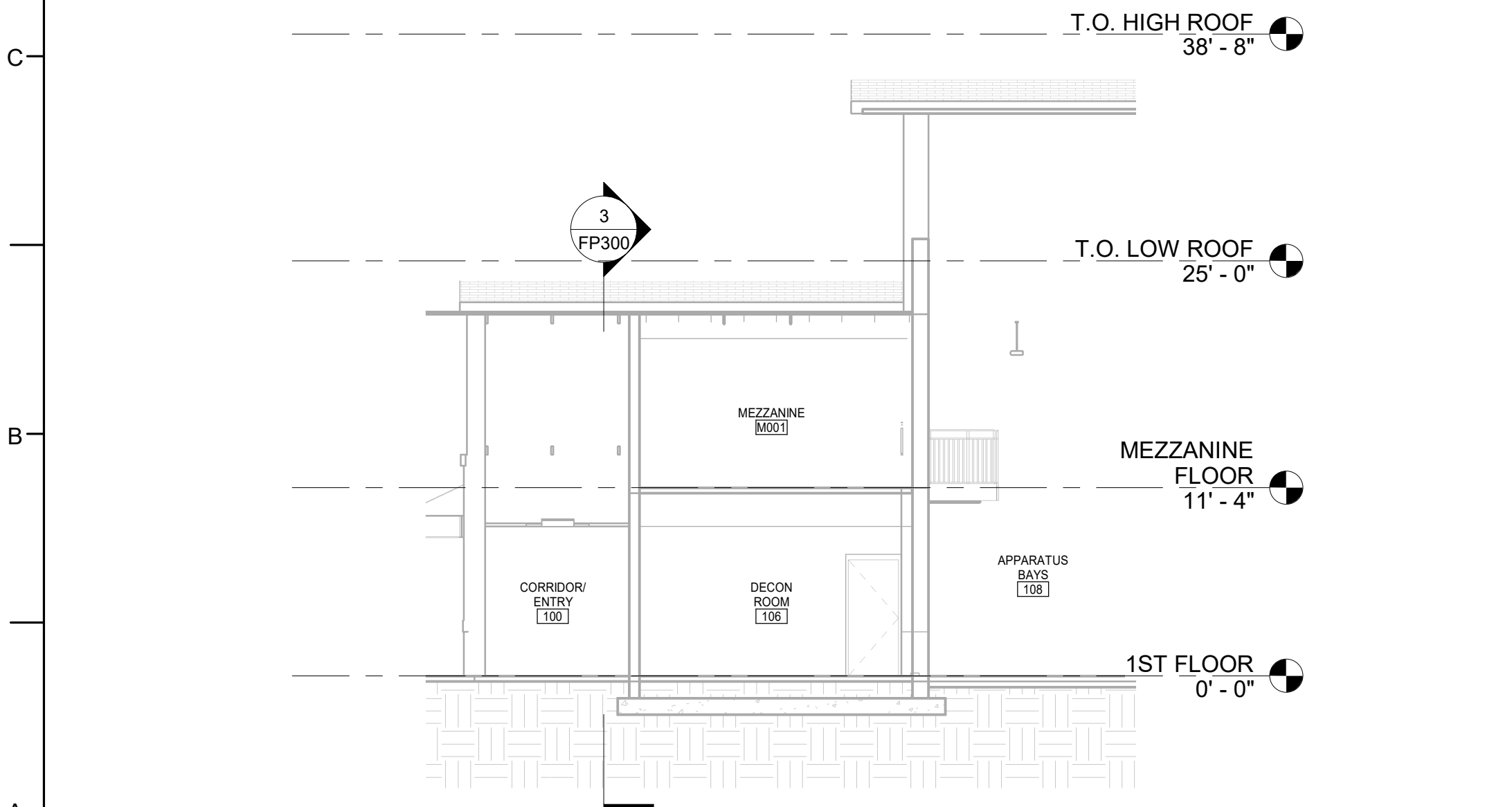




1 FIRE PROTECTION REFERENCE SECTION  
1/8" = 1'-0"



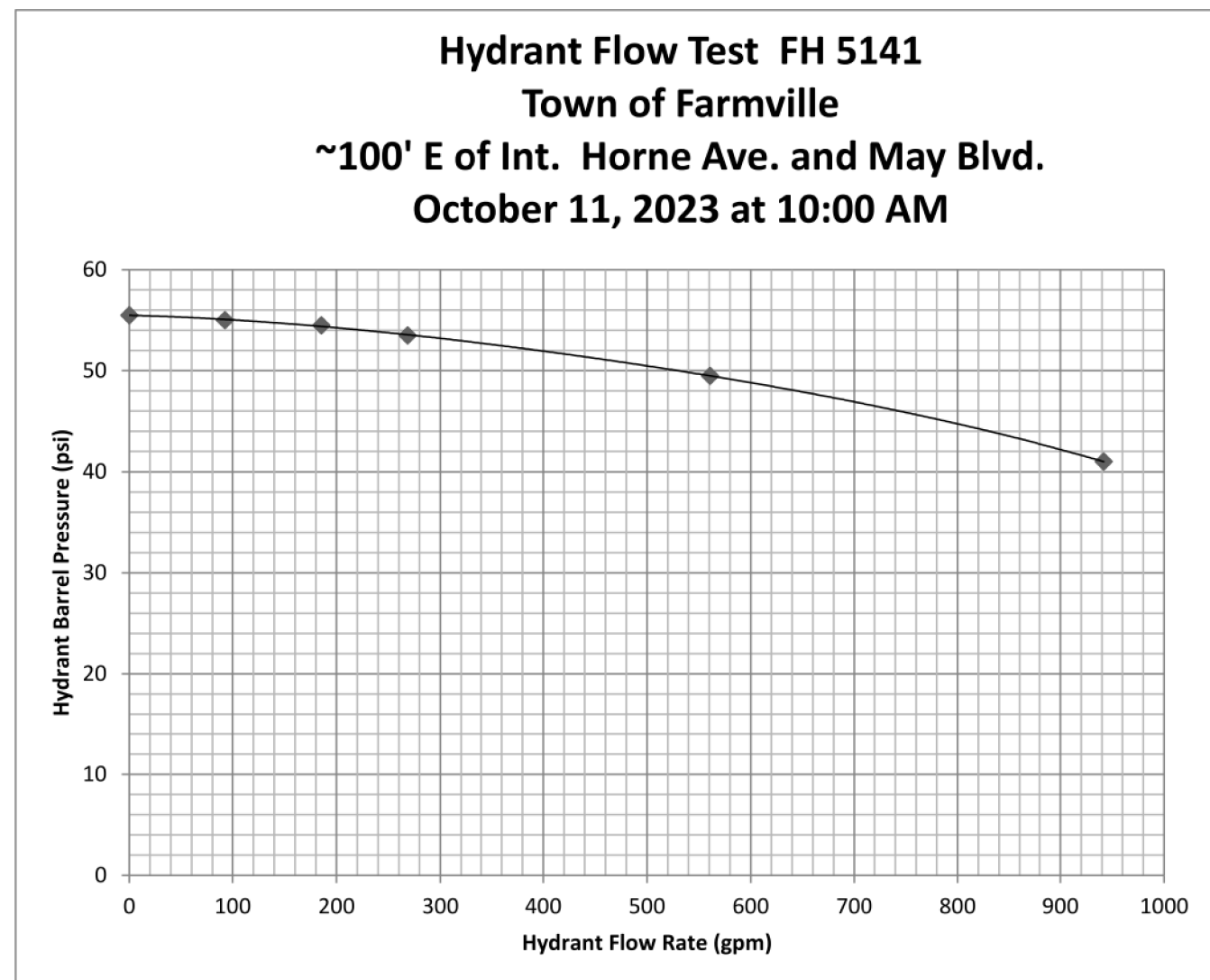
3 FIRE PROTECTION REFERENCE SECTION  
1/8" = 1'-0"



2 FIRE PROTECTION REFERENCE SECTION  
1/8" = 1'-0"

Hydrant Flow Test 1-24-0002-0050  
Town of Farmville  
W. Horne Avenue ~100' E of May Boulevard  
FH 5141 Mueller 1960  
October 11, 2023 10:00 AM  
EST 1 @ 209-(18.0-14.42)=205.4'  
EST 4 @ 209-(33.0-31.0)=207.0'  
On 6" cast iron main  
Elev=74.97 NAVD 88  
Static HGL=202.0'  
No wells running.

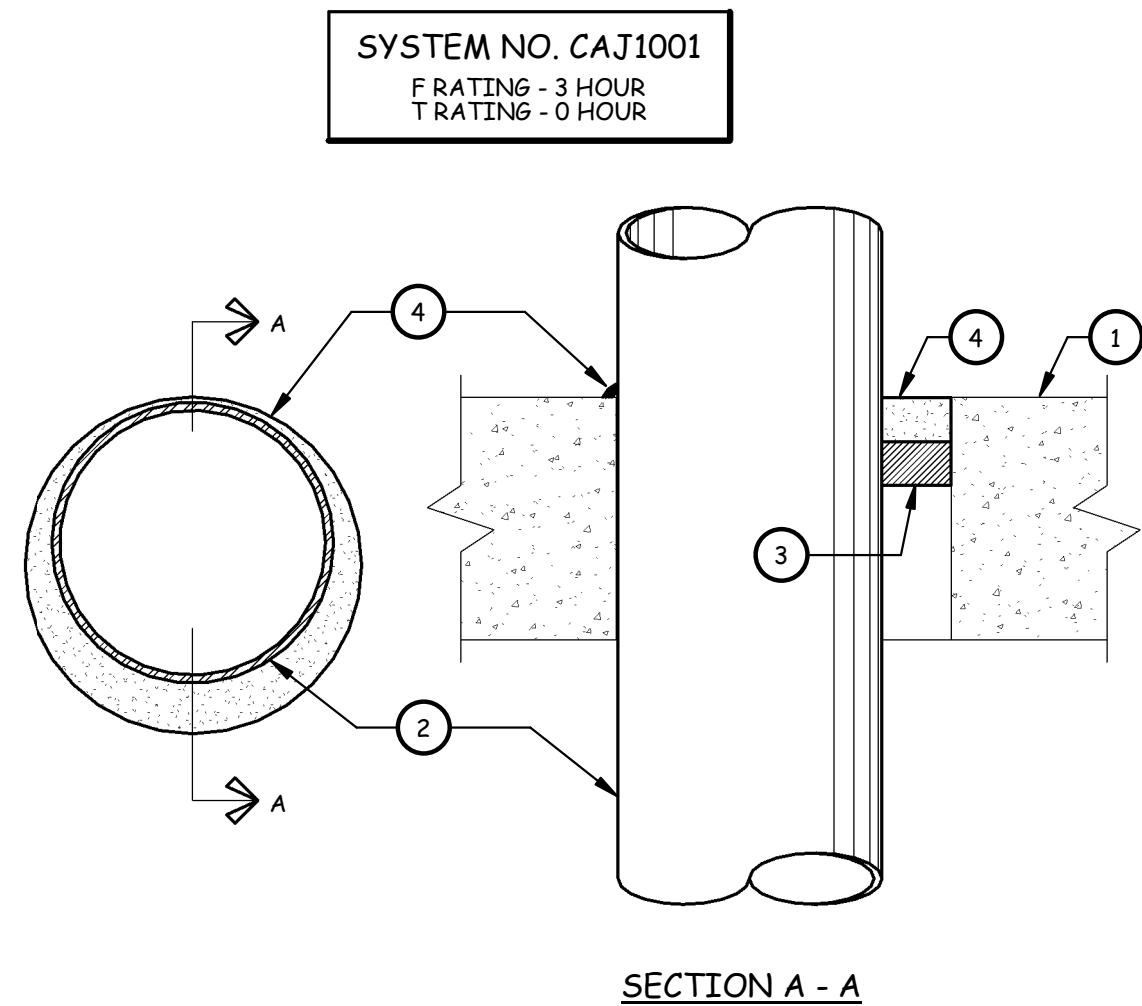
Cv of Orifice	Diameter of Orifice (inches)	Residual Pressure Hydrant Barrel (psi)	Projected Flow (gpm)
0	0	55.5	0
12.5	1	55	93
25.1	1.25	54.5	185
36.7	1.5	53.5	268
79.7	2	49.5	561
147.1	2.5	41	942



W:\D10xx\_gen\ID101x\_excel\ID1012\_gen\_excel\RBMI2023\ Farmville FH 5141 20231011.xls

1

10/24/2023 7:59 AM



- FLOOR OR WALL ASSEMBLY - MINIMUM 4 1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT (100 - 150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAXIMUM DIAMETER OF CIRCULAR THROUGH OPENING IS 22 1/2". SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES MANUFACTURERS.
- STEEL SLEEVE (OPTIONAL, NOT SHOWN) - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAXIMUM 2" FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.
- THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE STOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT, OR TUBING AND PERIPHERY OF OPENING SHALL BE MINIMUM OF 0" (POINT CONTACT) TO MAXIMUM 1 3/8" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
  - STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.
  - CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF SOLID CONCRETE OR CONCRETE BLOCK WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAXIMUM PIPE SIZE IS 10" DIAMETER AND WHEN MAXIMUM ANNULAR SPACE IS 1", A MINIMUM 1" THICKNESS OF TIGHTLY PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT PACKING MATERIAL MAY BE RECESSED MINIMUM 1/2" FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL.
- FILL, VOID OR CAVITY MATERIALS\* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE TO THE MINIMUM THICKNESS SHOWN IN THE FOLLOWING TABLE:

MAXIMUM PIPE DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	PACKING MATERIAL TYPE (A)	MINIMUM CAULK THICKNESS INCHES
10	1	BR, CF, GF OR MW	1/2 (b)
10	1	CF OR MW	1/2 (c)
20	2 1/2	BR, CF, GF OR MW	1 (b)

(a) BR = POLYETHYLENE BACKER ROD.  
CF = CERAMIC FIBER BLANKET.  
GF = GLASS FIBER INSULATION.  
MW = MINERAL-WOOL BATT.  
(b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.  
(c) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON-CONCRETE BLOCK) WALL.  
3M COMPANY - CP 25WB + CAULK OR FB-3000 W/T SEALANT.  
(THE W RATING APPLIES ONLY WHEN FB-3000 W/T SEALANT IS USED).  
\*BEARING THE UL CLASSIFICATION MARKING.

4 PENETRATION DETAIL  
NTS



SEISMIC AND WIND REQUIREMENTS FOR MECHANICAL SYSTEMS (PER ASCE 7-05)

1. ALL ROOF CURBS/ROOF RAILS INCLUDING THEIR ATTACHMENT TO THE EQUIPMENT AND STRUCTURE MUST BE EVALUATED FOR WIND LOADING. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED.
2. SEE SEISMIC INFORMATION CONTAINED ON STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.
3. SEE TABLE BELOW FOR SPECIFIC COMPONENT RESTRAINT REQUIREMENTS.
4. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL CONTRACTOR TO FURNISH AND INSTALL ALL SEISMIC BRACING AS NOTE HEREIN. CONTRACTOR SHALL FURNISH DESIGN CALCULATIONS AND SUBMITTAL FOR REVIEW.

SEISMIC DESIGN CATEGORY C, COMPONENT IMPORTANCE FACTOR 1.5

COMPONENT	RESTRAINT REQUIREMENT	ASCE 7-05 REFERENCE
SUSPENDED EQUIPMENT INLINE WITH DUCT/PIPE	RESTRAIN IF >75 LB (SEE NOTE 3.4)	13.6.7
SUSPENDED EQUIPMENT NOT INLINE WITH DUCT/PIPE	RESTRAIN ALL	13.6.3
DUCTILE PIPING	PIPE GREATER THAN 2" (SEE NOTES 5, 6)	13.6.8
SUSPENDED DUCTWORK	DUCTWORK GREATER THAN 6 SQFT OR LARGER THAN 28" IN DIAMETER (SEE NOTE 6)	13.6.7
COMPONENT CERTIFICATION (NOTE 7)	REQUIRED	13.2.2

NOTES:

1. EQUIPMENT >20 LBS OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF COMPONENT WEIGHS LESS THAN 400 POUNDS OR IS AT 4 FEET OR LESS ABOVE FINISHED FLOOR AND HAS FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
3. ITEMS WEIGHING LESS THAN 76 LBS. DO NOT NEED RESTRAIN IF THE ATTACHED DUCTWORK/PIPING IS RESTRAINED AND POSITIVELY ATTACHED TO THE EQUIPMENT.
4. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
5. ALL NON-DUCTILE PIPING (PLASTIC, CAST IRON, CERAMIC) MUST BE RESTRAINED.
6. RESTRAINT IS NOT REQUIRED IF SUSPENDED 12" OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY THE ENGINEER OF RECORD.

SITE SPECIFIC REQUIREMENTS FOR TOWN OF FARMVILLE FIRE STATION & HEADQUARTERS:

- ALL SPRINKLER PIPING LARGER THAN 2" SHALL BE RESTRAINED IN ACCORDANCE WITH NFPA 13.
- ALL DOMESTIC WATER, SEWER VENT AND NATURAL GAS PIPING LARGER THAN 2" SHALL BE RESTRAINED WITH CABLES AT 45° ANGLES AND SECURED TO STRUCTURE. PIPING INSTALLED WITHIN 12" OF STRUCTURE SHALL BE EXEMPT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	WATER PIPING DIRECTION OF FLOW
	COLD WATER PIPING BELOW FINISHED FLOOR
	HOT WATER PIPING BELOW FINISHED FLOOR
	HOT WATER RETURN PIPING
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	PIPING SIDE CONNECTION
	COMPRESSED AIR PIPING
	SANITARY SEWER / WASTE PIPING
	GREASE WASTE PIPING
	VENT PIPING
	VENT PIPE UP
	NON FREEZE WALL HYDRANT
	HOSE BIBB
	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	AIR ADMITTANCE VALVE
	ABOVE FINISHED CEILING
	BELOW FINISHED FLOOR
	BELOW FINISHED GRADE
	SANITARY TEE
	VENT THRU ROOF
	SANITARY SEWER PIPING
	A.A.V.
	A.F.C.
	B.F.F.
	B.F.G.
	S.T.
	V.T.R.
	S.S.

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTIONS.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER. SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATIC ALLY TESTED FOR ONE HOUR AT 150 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
8. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
9. ALL COLD/HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE 1" FIBERGLASS. OUTDOOR PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
10. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
11. WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
12. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
13. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
14. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
15. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
16. VENT AND SANITARY SEWER PIPING LOCATED BELOW FINISHED GRADE AND/OR FLOOR SHALL BE SCHEDULE 40 PVC. VENT AND SANITARY SEWER PIPING ABOVE FINISHED GRADE AND/OR FLOOR SHALL BE CAST IRON. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
17. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
18. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
19. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC...) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
20. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
21. ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM SHALL BE PROVIDED WITH A DOUBLE CHECK VALVE AS APPROVED BY THE CITY OF DURHAM.
22. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
23. ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET.
24. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
25. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
26. COMPRESSED AIR PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL AND TESTED AT 150 PSI FOR 24 HOURS. SLOPE ALL PIPE BACK TO COMPRESSOR AT 1/4" PER FOOT.

PLUMBING LOAD SUMMARY

SANITARY SEWER DEMAND FU	WATER DEMAND FU	WATER DEMAND GPM
286.0	108.0	150.5



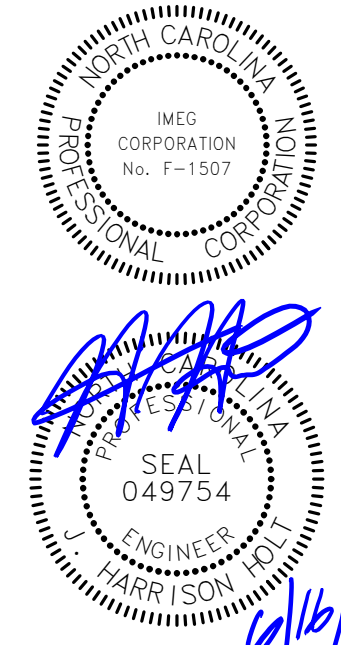
PROJECT INFORMATION



PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS


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Plot Date: 6/16/2025 12:44:04 PM

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6/17/2025

SHEET TITLE

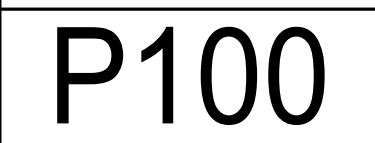
PLUMBING NOTES  
AND LEGEND

P001



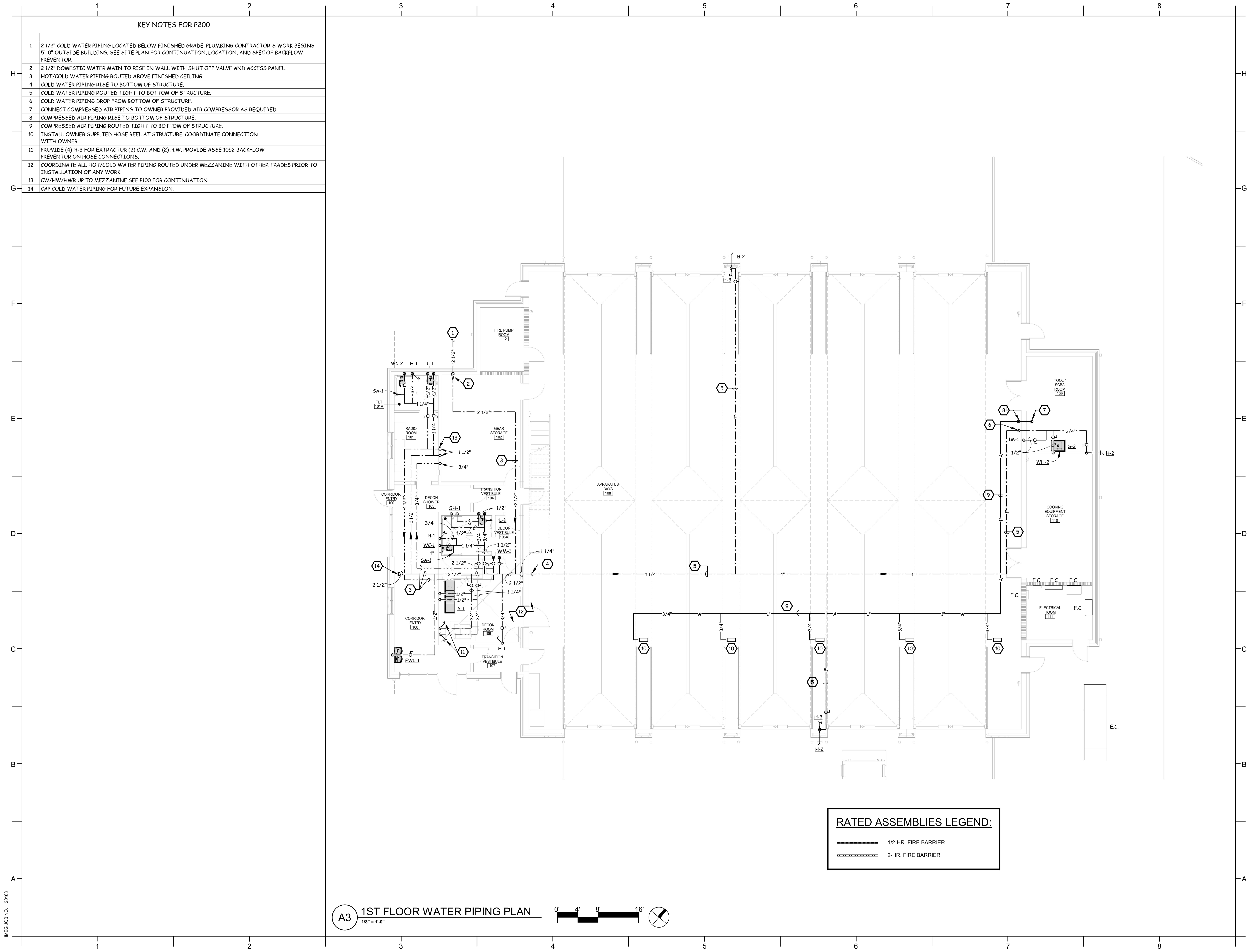
MEZZANINE PLUMBING PLAN

1/4" = 1'-0"



IMEG JOB NO. 20168





PROJECT INFORMATION

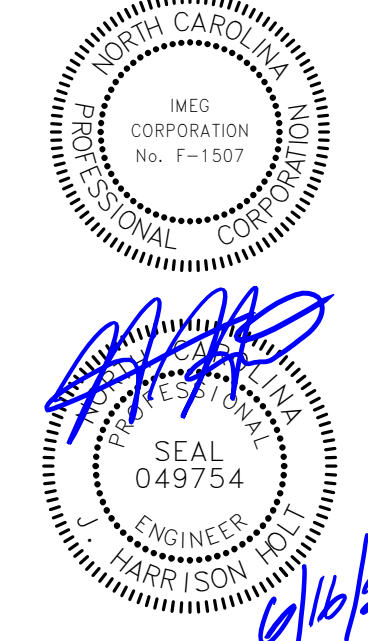
**ATLANTEC**  
ENGINEERS, P.A.  
**IMEG**

3221 BLUE RIDGE ROAD, SUITE 113  
RALEIGH, NC 27612  
(919) 571-1111  
IMEG# 20168

PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DESCRIPTION

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SHEET TITLE

FIRST FLOOR  
WATER PIPING PLAN

**P200**



MEG JOB NO. 20168

PLUMBING FIXTURE SCHEDULE										
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
OT-1	GREASE INTERCEPTOR	STRIEM	OT-500	MIFAB		ZURN				-
NO IMAGE	POLYETHYLENE EXTERIOR SAND/OIL INTERCEPTOR. GRAVITY DRAINAGE APPLICATIONS ONLY. BUILT IN FLOW CONTROL. INLET AND OUTLET DIFFUSER. COVER SHALL PROVIDE WATER/GAS TIGHT SEAL. INLET/OUTLET SIZE 4". FLOW RATE OF 314 G.P.M. CAPACITIES: 560 GALLONS LIQUID, 162 GALLONS SAND/OIL, 285 GALLONS OIL.									
P-1	RECIRCULATING PUMP	B & G	PL36							
	RECIRCULATING PUMP SHALL BE 1/6 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, TIMER, AQUASTAT AND DISCONNECT, DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.									
S-1	SCULLERY SINK	ELKAY	SS8230LR2	JUST	SB-230-24RL					
NO IMAGE	FAUCET	CHICAGO	540-LDL12EWXFBOP	T&S BRASS	B-0231	AMERICAN STANDARD		1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7			
	DOUBLE COMPARTMENT SINK WITH LEGS AND SELF LEVELING FEET. SINK TO HAVE 24" WASHBOARDS ON RIGHT AND LEFT HAND SIDES. PROVIDE WITH 1.0 GPM OUTLET.									
S-2	SCULLERY SINK	ELKAY	14-1C16X20	JUST	SB-124					
NO IMAGE	FAUCET	CHICAGO	540-LDL12EWXFBOP	T&S BRASS	B-0231	AMERICAN STANDARD		1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7			
	SINGLE COMPARTMENT SINK WITH LEGS AND SELF LEVELING FEET. PROVIDE WITH 1.0 GPM OUTLET.									
SA-1	SHOCK ABSORBER	JOSAM	75000	ZURN	Z1700	WADE	4480			
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASTING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.									
SH-1	VALVE AND HEAD	CLEVELAND FAUCET	42018GR15 W/ INTERNAL STOPS	DELTA	52672-15-BG	MOEN	6399EBRL	1/2"	1/2"	
NO IMAGE	PLUMBING CONTRACTOR TO PROVIDE WITH DRAIN. VALVE TO BE ANTI-SCALD PER NORTH CAROLINA BUILDING CODE. SHOW IS TO BE RATED "WATER SENSE". PROVIDE WITH 1.75 GPM FLOW RATE RESTRICTOR.									

PLUMBING FIXTURE SCHEDULE										
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
CO-1	WALL CLEANOUT	ZURN	CO-2413-PVC	MIFAB		JR SMITH		-	-	SEE PLUMB. DRAWINGS
	ACCESS COVER	ZURN	CO-2530-SS	MIFAB		JR SMITH				
	PVC CLEANOUT BODY AND PLUG TO BE GAS AND WATER TIGHT. PLUG TO HAVE A BRASS THREADED INSERT TO RECEIVE SECURING SCREW FOR STAINLESS STEEL ROUND ACCESS COVER.									
CO-2	EXTERIOR CLEANOUT	ZURN	Z-1449-BP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMB. DRAWINGS
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.									
CO-3	FLOOR CLEANOUT	ZURN	Z-1400-HD	WATTS	CO-200-RX-4-34	JR SMITH	4243	-	-	SEE PLUMB. DRAWINGS
	CLEANOUT HOUSING	ZURN	Z-1474	WATTS	CO-300-MF	JR SMITH	4263-L			
	HEAVY DUTY FLOOR CLEANOUT WITH CAST IRON BODY, EXTRA HEAVY DUTY TOP, AND GAS AND WATERTIGHT ABS TAPERED THREAD PLUG.									
EW-1	WATER COOLER	OASIS	P85BFSL	ELKAY	LZSTL8WS	HALSEY TAYLOR	HTHB-HACDBLPV-WF	1/2"	-	2"
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.									
FD-1	FLOOR DRAIN	ZURN	ZN415S	WATTS	FD-100-M	MIFAB	F11000-1	1/2"	-	3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED 6" x 6" NICKEL BRONZE SQUARE HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
FD-2	FLOOR DRAIN	ZURN	ZN415T	WATTS	FD-100-ER	MIFAB	F100-CC-DD	1/2"	-	3"
	FLOOR DRAIN TO HAVE A CAST IRON BODY WITH 3" BOTTOM OUTLET, ADJUSTABLE COLLAR, POLISHED 7" DIAMETER NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
FS-1	FLOOR SINK	ZURN	ZN1901-3-33	WATTS	FS-740-1-175	MIFAB	FS1730-175	-	-	3"
	12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM DUTY 3/4 GRATE, AND ANTI-SPASH INTERIOR BOTTOM DOME STRAINER.									
H-1	HOSE BIBB	CHICAGO	952	WOODFORD	21	ZURN	Z87SL7	3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED FLOOR.									
H-2	ANTIFREEZE HOSE BIBB	WOODFORD	65	WATTS	HY-420	MIFAB	MHY-15	3/4"	-	-
	ANTIFREEZE HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED GRADE.									
H-3	HOSE BIBB	WOODFORD	24	MIFAB	MHY-9000-NPB	ZURN	195XL	3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB.									
IM-1	ICE MAKER BOX	OATEY CO.	38574	GUY GRAY	A89700	STOUX CHIEF	696-61000MF	1/2"	-	-
	PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.									
L-1	LAVATORY	KOHLER	K-2196-4-0	SLOAN	SS-3002	AMERICAN STANDARD	0476.028			
	FAUCET	DELTA	5231LF-H6MHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2"	
	SELF-RIMMING LAVATORY SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, AND INCLUDE SEALANT. FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW, CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET STRAINER, McGUIRE PROWRAP INSULATOR, AND APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.									



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PROJECT INFORMATION


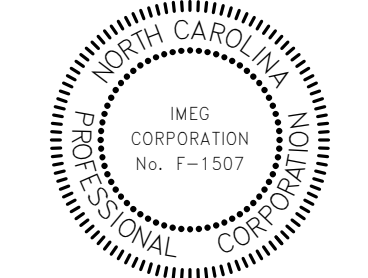


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IMEG# 20168

PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

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6/17/2025

SHEET TITLE  
PLUMBING FIXTURE  
SCHEDULE

P300



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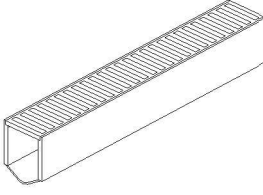
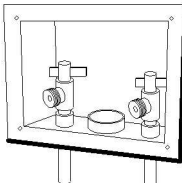







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PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
TD-1	HEAVY DUTY TRENCH DRAIN	ZURN	Z882-D6E	WATTS	DEAD LEVEL	JR SMITH		-	-	3"
	12" WIDE. COORDINATE LOCATION AND LENGTH WITH ARCHITECT									
WM-1	WASHING MACHINE BOX	OATEY CO.	38108	GUY GRAY		STOUX CHIEF		1/2"	1/2"	2"
	PLASTIC WASHING MACHINE BOX WITH 1/4 TURN BRASS BALL VALVES - COPPER SWEAT AND DRAIN. MOUNT 42" ABOVE FINISHED FLOOR.									
WC-1	WATER CLOSET	KOHLER	K-96053-0	SLOAN	ST-2009	AMERICAN STANDARD	2234.015			4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE									
	WC-2	WATER CLOSET	KOHLER	K-96057-0	SLOAN	ST-2029	AMERICAN STANDARD	2305.100		4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. THE FLUSH VALVE MECHANISM SHALL BE PLACED ON THE WIDE SIDE OF THE STALL.									
	WH-1	WATER HEATER	A.O. SMITH	BTH-199	RHEEM		STATE INDUSTRIES		1 1/2"	1 1/2"
	GAS FIRED WATER HEATER SHALL HAVE AN 100 GALLON STORAGE CAPACITY WITH AN INPUT OF 199 MBH AND A RECOVERY OF 235 GPH AT A 100° RISE. PROVIDE WITH EXPANSION TANK.									
	WH-2	WATER HEATER	EEMAX	SP2412					3/8"	3/8"
	ELECTRIC INSTANTANEOUS WATER HEATER SHALL HAVE AN ELECTRIC INPUT OF 2.4 KW AT 120 VOLT, SINGLE PHASE. WIRING BY LICENSED ELECTRICAL CONTRACTOR.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1.

THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.

2.


SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.

3.


PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.

4.


REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.



ADA COMPLIANT



ELECTRICAL POWER



GAS FIRED

MEG JOB NO. 20168

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PROJECT INFORMATION

TOWN OF FARMVILLE  
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SEALS

NORTH CAROLINA  
IMEG CORPORATION  
No. F-1507  
PROFESSIONAL CORPORATION

ATLANTEC ENGINEERS, PA

SEAL 049754  
ENGINEER  
HARRISON, N.C.  
6/16/25

DKA JOB NUMBER  
2015

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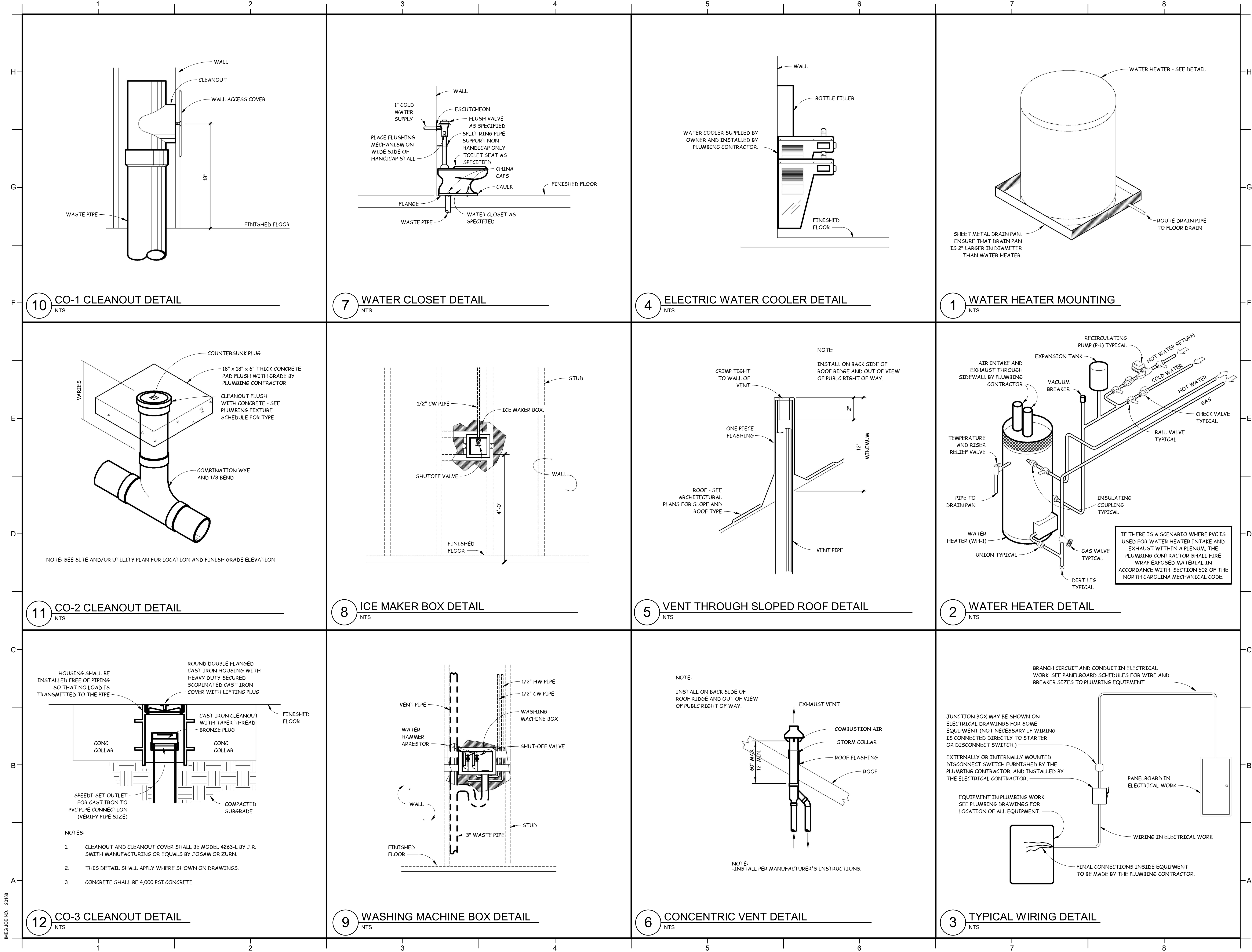
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SHEET TITLE  
PLUMBING FIXTURE SCHEDULE

P301





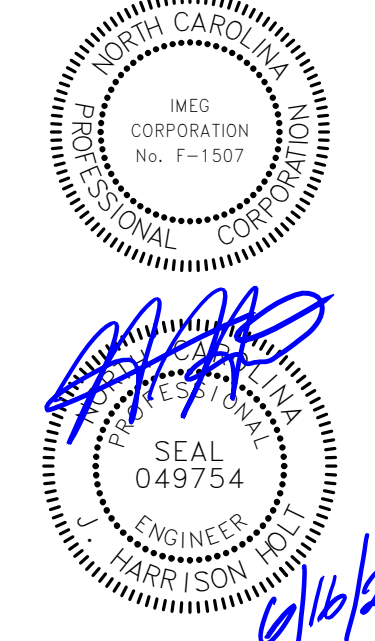
PROJECT INFORMATION

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**IMEG**  
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PROJECT INFORMATION

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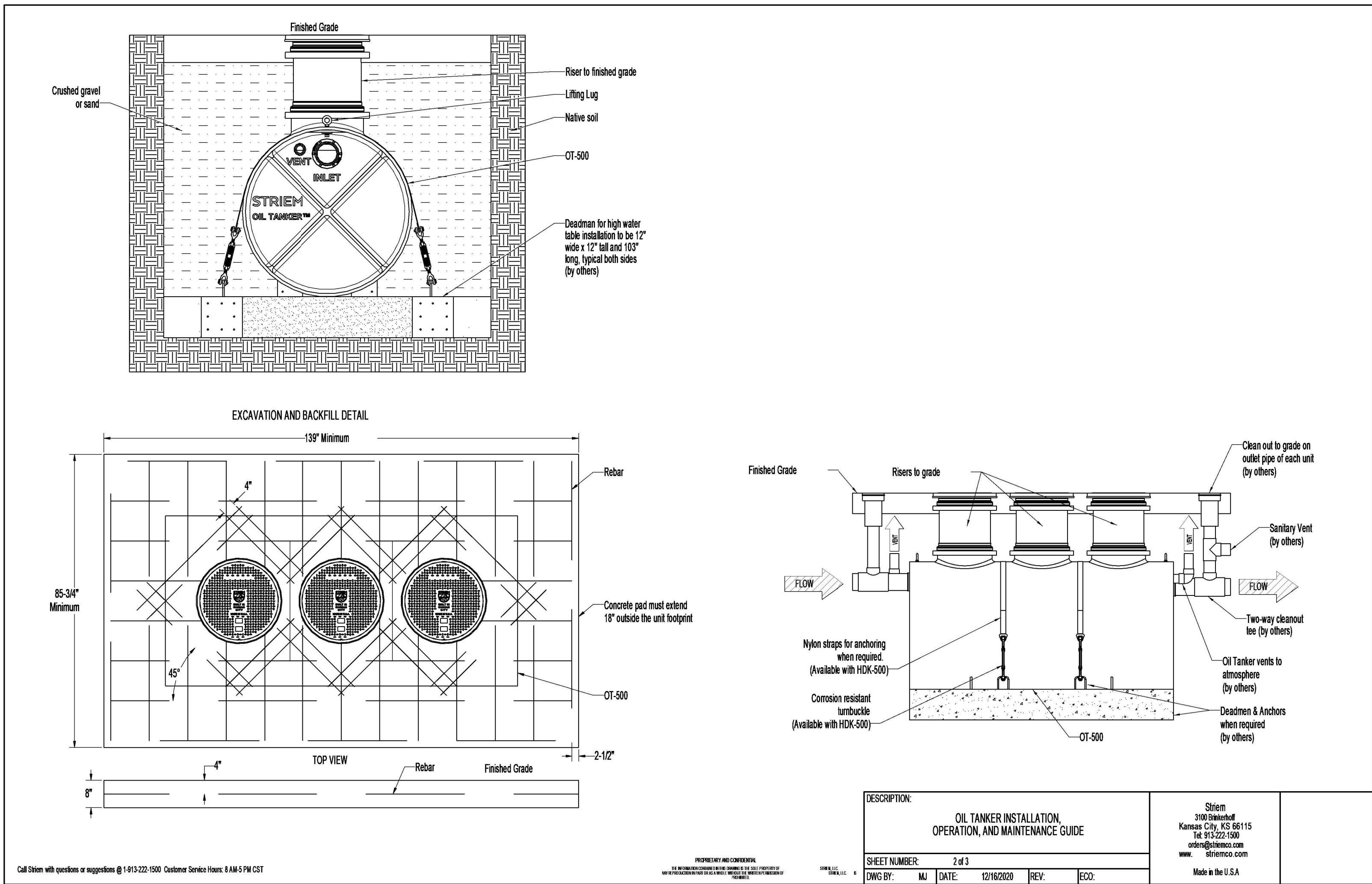
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PLUMBING DETAILS

**P400**

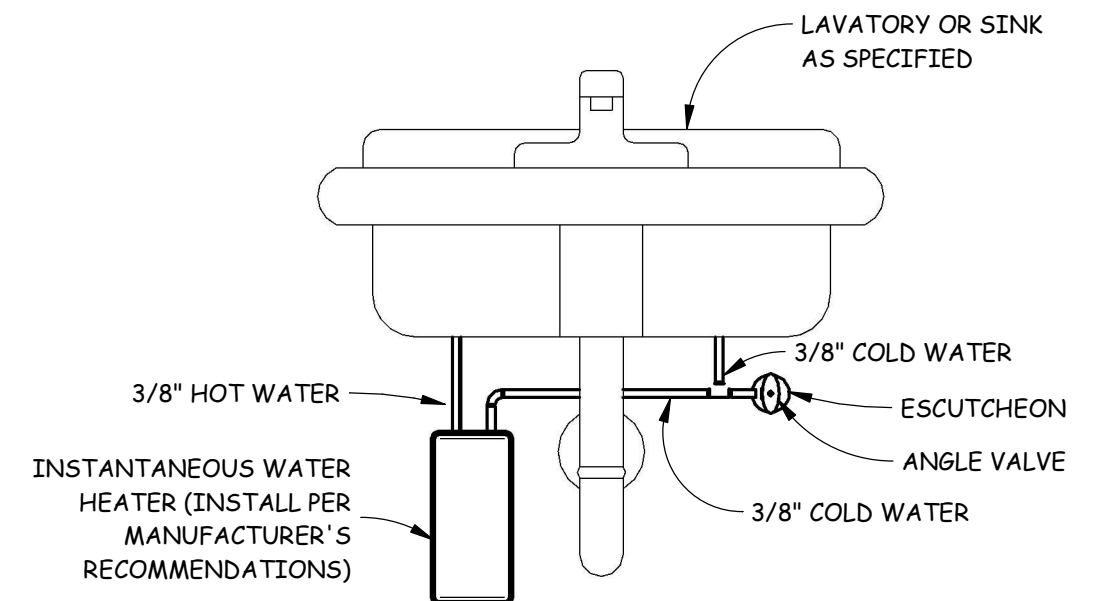


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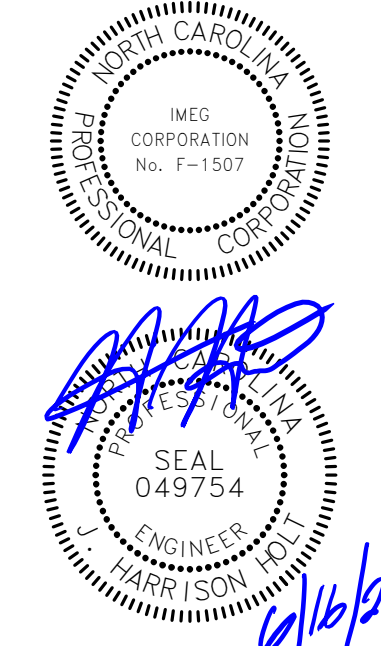
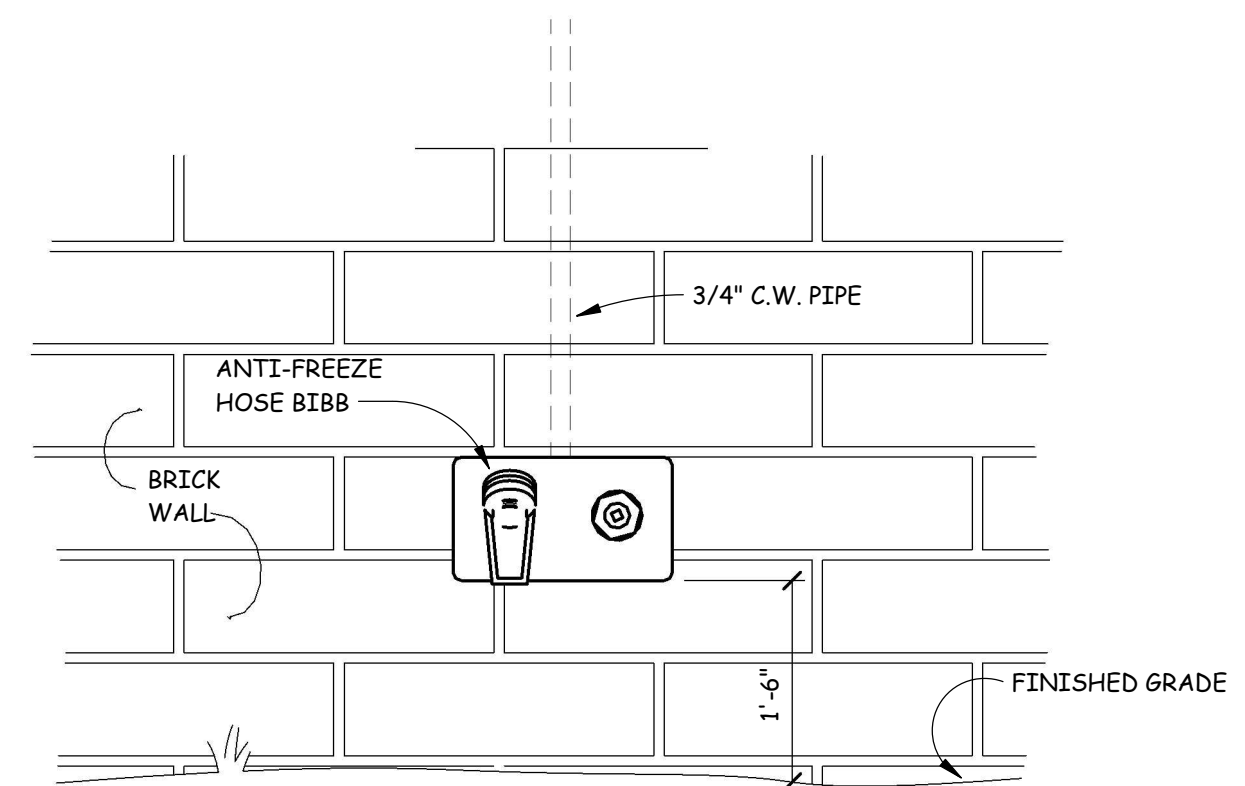
2 SAND/OIL SEPARATOR DETAIL  
NTS



3 INSTANTANEOUS WATER HEATER DETAIL  
NTS



1 EXTERIOR HOSE BIBB DETAIL  
NTS



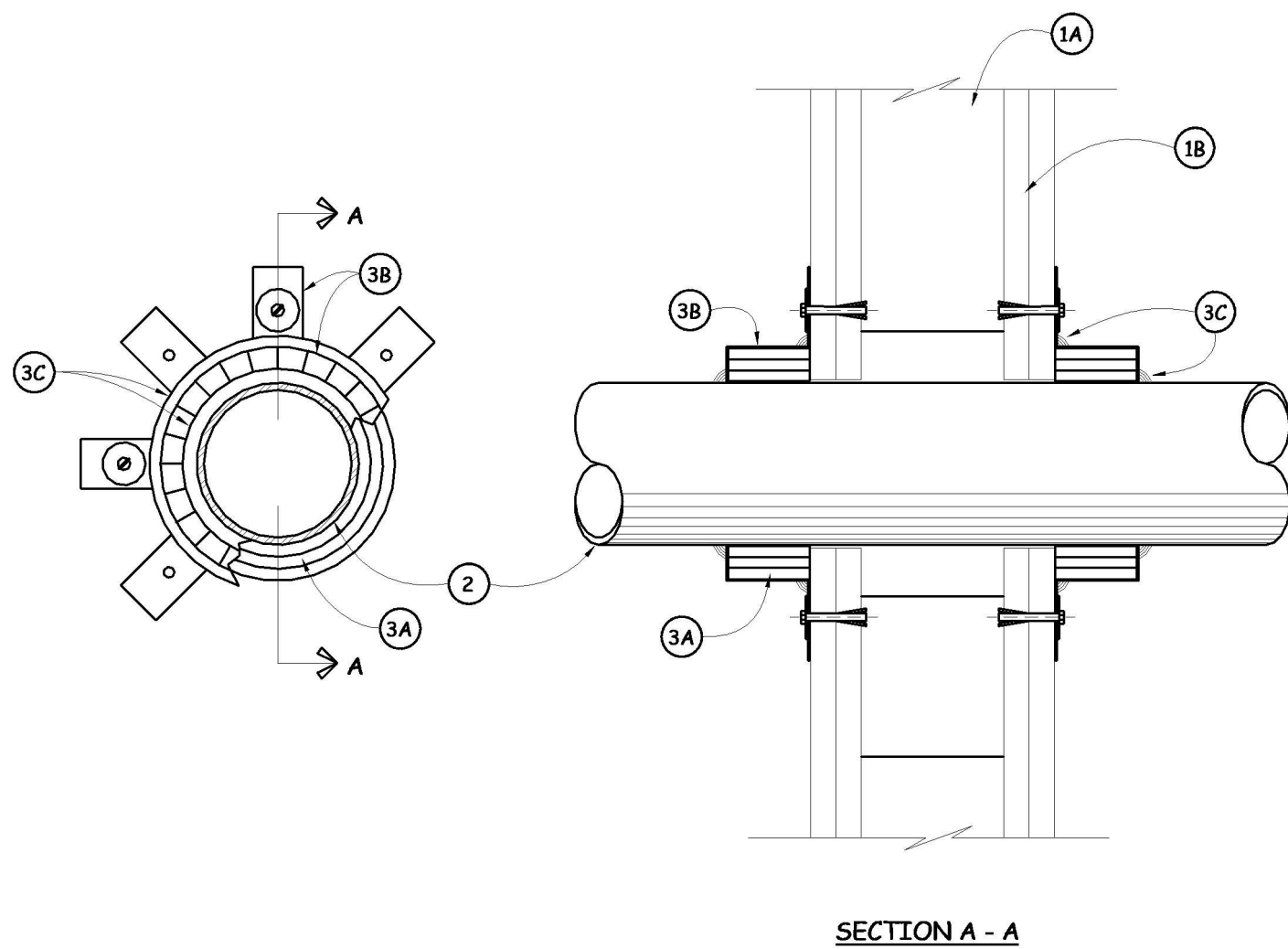
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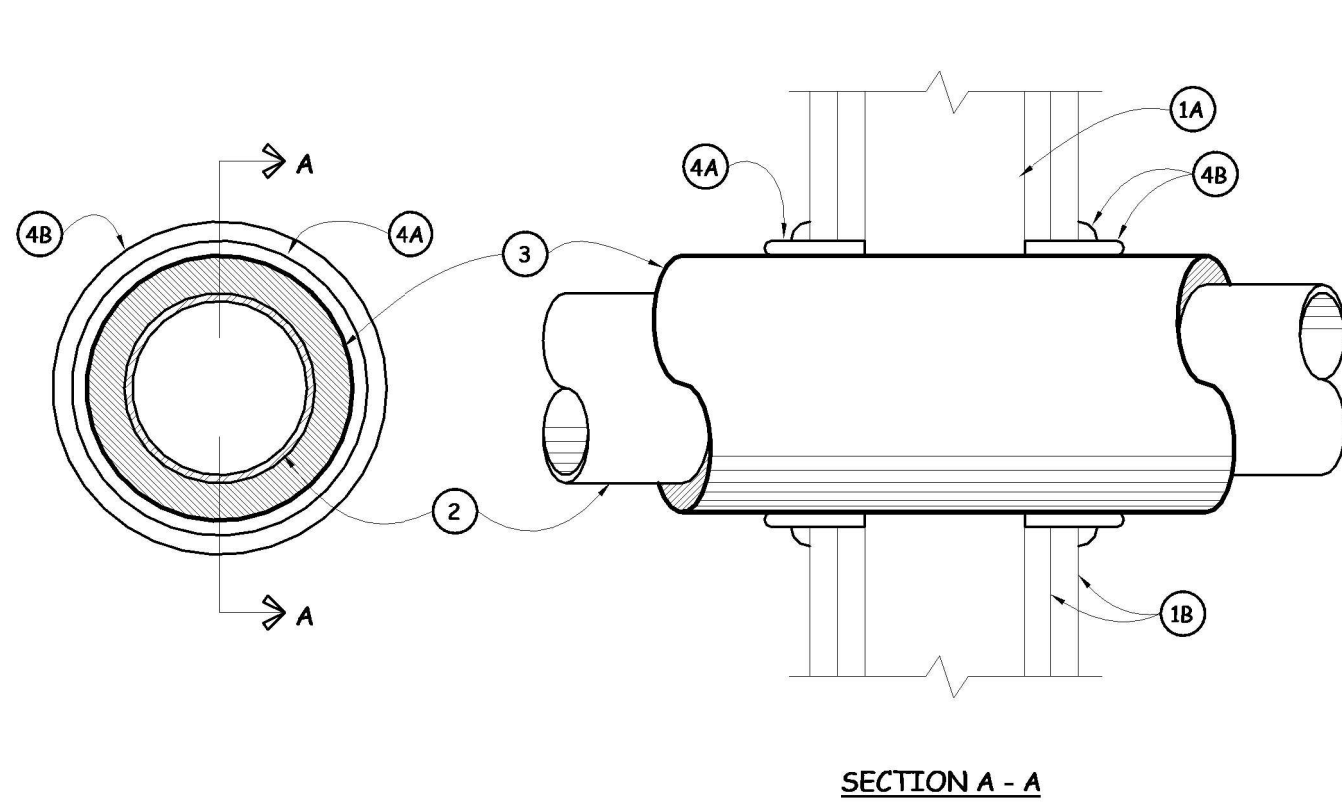
SYSTEM NO. WL2002  
F RATINGS - 1 1/2 AND 2 HOUR  
T RATINGS - 3/4, 1 1/2 AND 2 HOUR  
L RATING AT AMBIENT - 7 CFM/SQ FT  
L RATING AT 400 F - 1 CFM/SQ FT



- 1 WALL ASSEMBLY-THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.  
B. WALLBOARD, GYPSUM-5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 7 IN.  
2 NONMETALLIC PIPE OR CONDUIT-ONE NONMETALLIC PIPE OR CONDUIT IS CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUIT MAY BE USED:  
A. NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) PIPE.  
B. NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 CELLULAR CORE POLYVINYL CHLORIDE (PVC) PIPE.  
C. NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID-CORE ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE.  
D. NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 FIRE RETARDANT POLYPROPYLENE (FRPP) PIPE.  
E. NOM 4 IN. DIAM (OR SMALLER) RIGID NONMETALLIC CONDUIT FORMED OF PVC.  
F. NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL NONMETALLIC TUBING FORMED OF PVC.  
G. NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 40 CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE.  
H. SEE RIGID NONMETALLIC CONDUIT (DZKT) AND ELECTRICAL NONMETALLIC TUBING (FKH) CATEGORIES IN UL ELECTRICAL CONSTRUCTION MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS.

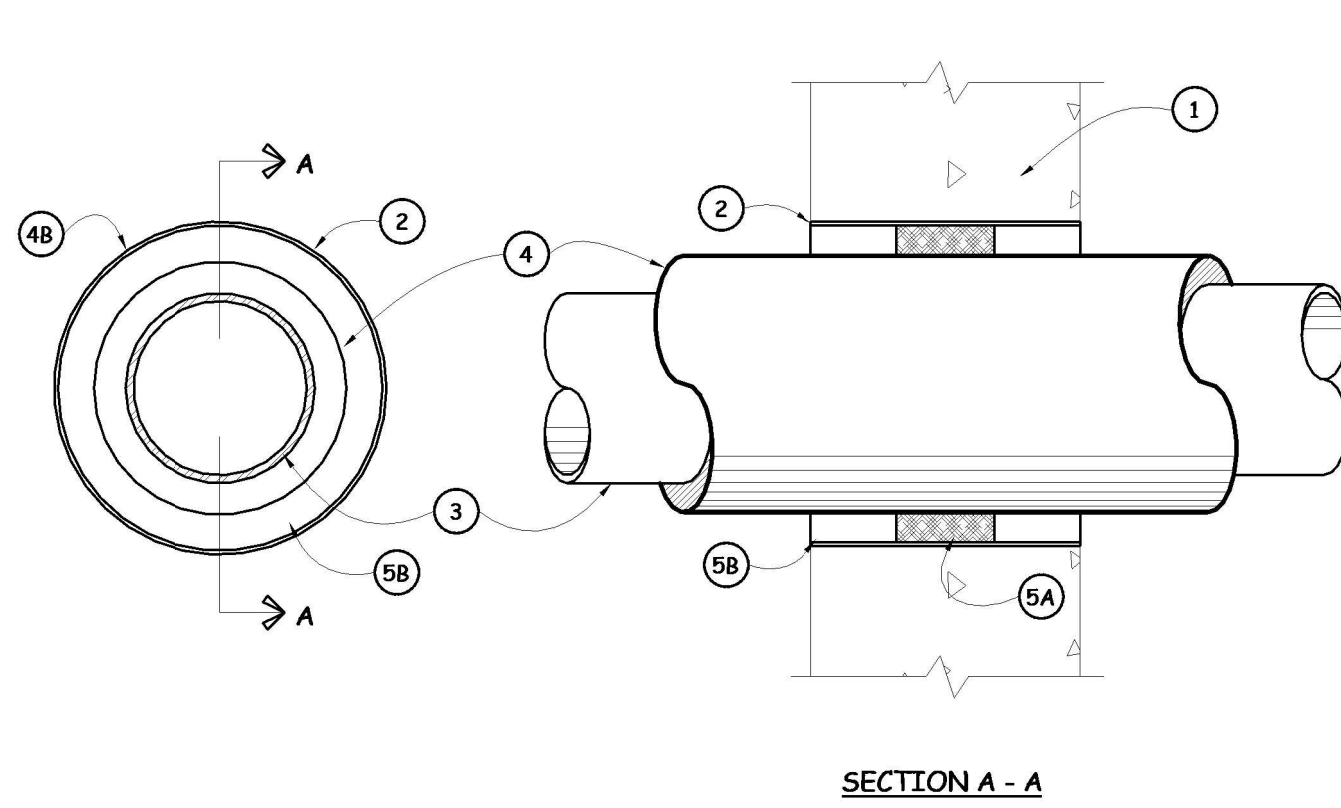
- 3 FIRESTOP SYSTEM-INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F AND T RATINGS FOR THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE TYPE AND SIZE OF NONMETALLIC PIPE OR CONDUIT. THE PIPING SYSTEM TYPE (CLOSED SYSTEMS SUCH AS PROCESS OR SUPPLY PIPING OR VENTED SYSTEMS SUCH AS DRAIN, WASTE OR VENT PIPING) AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.
- | PIPE/ CONDUIT TYPE | PIPE DIAM, IN | ANNULAR SPACE, IN | PIPING SYSTEM (A) | FIRE RATING, HR | F RATING, HR | T RATING, HR |
|--------------------|---------------|-------------------|-------------------|-----------------|--------------|--------------|
| FRPP               | 1/2 TO 2      | 0-3/16            | V                 | 2               | 1 1/2        | 1 1/2        |
| FRPP, PB           | 1/2 TO 2      | 0-3/16            | C                 | 2               | 2            | 2            |
| ABS                | 1/2 TO 4      | 0-3/16            | C.V               | 1               | 1            | 3/4          |
| ABS                | 1/2 TO 4      | 0-3/16            | C.V               | 2               | 1 1/2        | 1 1/2        |
| PVC                | 1/2 TO 4      | 0-3/16            | C.V               | 1               | 1            | 1            |
| PVC                | 1/2 TO 4      | 0-3/16            | C.V               | 2               | 2            | 2            |
| FRPP+              | 2 1/2 TO 4    | 0-3/16            | C.V               | 2               | 1 1/2        | 1 1/2        |
| PVC+               | 5, 6          | 0-3/16            | C.V               | 2               | 1 1/2        | 1 1/2        |
- \*PIPE COVERINGS MATERIAL WRAP REQUIRED ON PIPE ON BOTH SIDES OF WALL. (A/C = CLOSED SYSTEMS, V = VENTED SYSTEMS.)  
THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:  
A. FILL, VOID OR CAVITY MATERIALS\*-WRAP STRIP-NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS, NOM 2 IN. WIDE STRIPS TIGHTLY WRAPPED AROUND NONMETALLIC PIPE OR CONDUIT (FOIL SIDE EXPOSED) WITH THE EDGES BUTTED AGAINST THE SURFACE OF THE WALL. SUFFICIENT LAYERS OF WRAP STRIP SHALL BE INSTALLED TO LAP A MIN OF 3/8 IN. ON THE WALL SURFACE AROUND THE ENTIRE PERIMETER OF THE CIRCULAR THROUGH OPENING. FOR NOM 1/2 IN. TO NOM 2 IN. DIAM PIPES OR CONDUITS, A MIN OF ONE LAYER OF WRAP STRIP IS REQUIRED. FOR NOM 2 1/2 IN. AND NOM 3 IN. DIAM PIPES, A MIN OF TWO LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 3 1/2 IN. AND NOM 4 IN. DIAM PIPES, A MIN OF THREE LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 5 AND 6 IN. DIAM, TWO TIERS (4 IN. OVERALL LENGTH) OF THREE LAYERS OF WRAP STRIP IS REQUIRED, WITH ADJOINING WRAP STRIP LAYER EDGES BETWEEN TIERS TIGHTLY BUTTED. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM, WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE OR EQUIVALENT.  
MINNESOTA MINING & MFG. CO.-TYPE FS-195+  
B. STEEL COLLAR-NOM 2 OR 4 IN. DEEP COLLAR WITH 1-1/4 IN. WIDE BY 2 IN. LONG ANCHOR TABS AND MIN 3/4 IN. LONG TABS TO RETAIN WRAP STRIP LAYERS. COILS OF RECU 0.016 IN. THICK (NO. 30 GAUGE) GALV SHEET STEEL, AVAILABLE FROM WRAP STRIP MANUFACTURER, AS AN ALTERNATE, COLLAR MAY BE FIELD-FABRICATED FROM MIN 0.016 IN. THICK (NO. 30 GAUGE) GALV SHEET STEEL IN ACCORDANCE WITH INSTRUCTION SHEET SUPPLIED BY WRAP STRIP MANUFACTURER.  
STEEL COLLAR, WITH ANCHOR TABS BENT OUTWARD 90 DEG, WRAPPED TIGHTLY AROUND WRAP STRIP LAYERS WITH MIN 1 IN. OVERLAP AT THE SEAM, WITH STEEL COLLAR ANCHOR TABS PRESSED TIGHTLY AGAINST WALL SURFACE. COMPRESS COLLAR AROUND WRAP STRIP LAYERS USING A MIN 1/2 IN. WIDE BY 0.028 IN. THICK STAINLESS STEEL BAND CLAMP WITH WORM DRIVE TIGHTENING MECHANISM AT THE COLLAR MIDHEIGHT, AS AN ALTERNATE TO THE STAINLESS STEEL BAND CLAMP, THE STEEL COLLAR MAY BE COMPRESSED AROUND NOM 4 IN. DIAM (OR SMALLER) NONMETALLIC PIPES USING TWO MIN 16 SW6 (0.0625 IN. DIAM) STEEL WIRES SECURED WITH MULTIPLE TWISTS, AS AN ALTERNATE TO THE BAND CLAMPS OR STEEL WIRES, COLLARS MAY BE SECURED BY A MEANS NO. 10 BY 1/2 IN. LONG SHEET METAL SCREWS INSTALLED IN THE VERTICAL AXIS AT THE CENTER OF THE 1 IN. OVERLAP ALONG THE PERIMETER JOINT OF THE COLLAR. A MIN OF THREE SCREWS IS REQUIRED. SECURE COLLAR TO WALL SURFACE WITH 3/16 IN. DIAM STEEL TOGGLE BOLTS (5/8 IN. OR 1-1/4 IN. GRIP) IN CONJUNCTION WITH MIN 1-1/2 IN. DIAM STEEL WASHERS.  
THREE BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR 2 IN. DEEP STEEL COLLAR FOR NOM 1/2 IN. TO NOM 3 IN. DIAM PIPES. FOUR BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR 2 IN. DEEP STEEL COLLAR FOR NOM 3 1/2 IN. AND 4 IN. DIAM PIPES. FIVE TO SEVEN BOLTS (EVERY OTHER ANCHOR TAB) REQUIRED FOR 4 IN. DEEP STEEL COLLAR FOR NOM 5 AND 6 IN. DIAM PIPES. AS A FINAL STEP, BEND RETAINER TABS 90 DEG TOWARD PIPE TO LOCK WRAP STRIP LAYERS IN POSITION.  
C. FILL, VOID OR CAVITY MATERIALS\*-CAULK OR PUTTY-GENEROUS BEAD OF CAULK APPLIED TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACE, AND TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WRAP STRIP LAYERS.  
MINNESOTA MINING & MFG. CO.-CP 25WB+ CAULK AND MPS-2+ PUTTY (NOTE: L RATINGS APPLY ONLY WHEN TYPE CP-25WB+ CAULK IS USED.)  
D. PIPE COVERING\*-NOT SHOWN-NOM 1 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. WHEN REQUIRED (SEE TABLE), MIN 6 IN. LENGTH OF PIPE COVERING INSTALLED AROUND PVC PIPE AT ITS PRESS FROM STEEL COLLAR ON BOTH SIDES OF WALL. PIPE COVERING SECURED TO PIPE WITH STEEL WIRE TIES SPACED MAX 4 IN. OC. EDGE OF PIPE COVERING ABUTTING STEEL COLLAR TO BE SEALED WITH A MIN 1/4 IN. DIAM BEAD OF CAULK (ITEM C).  
SEE PIPE AND EQUIPMENT COVERING-MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS, ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.  
E. FIRESTOP DEVICE\*-NOT SHOWN-AS AN ALTERNATE TO ITEMS A, B AND C FOR NOM 1-1/2, 2, 3 OR 4 IN. DIAM NONMETALLIC PIPES, A FIRESTOP DEVICE CONSISTING OF A SHEET-STEEL SPLIT COLLAR LINED WITH INTUMESCENT MATERIAL AND PROVIDED WITH STEEL CLIPS FOR ATTACHMENT MAY BE USED. FIRESTOP DEVICE TO BE INSTALLED ON BOTH SIDES OF WALL IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.  
MINNESOTA MINING & MFG. CO.-TYPES PPD 150, PPD 200, PPD 300, PPD 400  
\*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. WL5001  
F RATING - 1 AND 2 HOUR  
T RATING - 3/4, 1 AND 1 1/2 HR  
L RATING AT AMBIENT - 2 CFM/SQ FT  
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



- 1 WALL ASSEMBLY-THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.  
B. WALLBOARD, GYPSUM-NOM 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS AND 18 IN. FOR STEEL STUD WALLS.  
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.  
2 THROUGH PENETRANTS-ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:  
A. STEEL PIPE-NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
B. COPPER TUBING-NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
C. COPPER PIPE-NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
3 PIPE COVERING\*-NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN.  
SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS, ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.  
THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.  
4 FIRESTOP SYSTEM-INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:  
A. FILL, VOID OR CAVITY MATERIALS\*-WRAP STRIP-NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS, NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED.  
MINNESOTA MINING & MFG. CO.-FS-195+  
B. FILL, VOID OR CAVITY MATERIALS\*-CAULK-MIN 1/4 IN. DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE.  
MINNESOTA MINING & MFG. CO.-CP 25WB+  
\*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. WJ5028  
F RATING - 4 HOUR  
T RATING - 1 1/2 HR

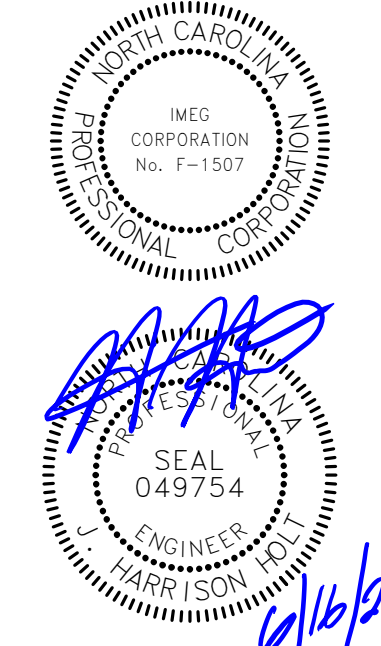


- 1 WALL ASSEMBLY MIN 7-5/8 IN. THICK WALL ASSEMBLY CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*, MIN 4 HR FIRE RATED WALL. MAX DIAM OF OPENING IS 18-1/2 IN.  
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.  
2 STEEL SLEEVE CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.035 IN. THICK (NO. 20 GAUGE) GALV STEEL SHEET STEEL AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE TO BE INSTALLED BY COILING THE SHEET METAL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE CONCRETE BLOCKS.  
3 THROUGH PENETRANTS ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:  
A. STEEL PIPE-NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
B. CONDUIT NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRIC METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT.  
C. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
D. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
4 PIPE COVERING\*-NOM 1-1/2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (3.5 PCF) GLASS FIBER UNITS JACKETED OF THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE STEEL SLEEVE SHALL BE MIN 1-1/4 IN. TO MAX 1-1/2 IN.  
SEE PIPE EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS, ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.  
5 FIRESTOP SYSTEM THE FIRE STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:  
A. PACKING MATERIAL MIN 3-5/8 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.  
B. FILL, VOID OR CAVITY MATERIAL\* SEALANT MIN 2 IN. THICKNESS APPLIED WITHIN THE STEEL SLEEVE, FLUSH WITH BOTH SURFACE OF WALL.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE SEALANT

\*BEARING THE UL CLASSIFICATION MARKING

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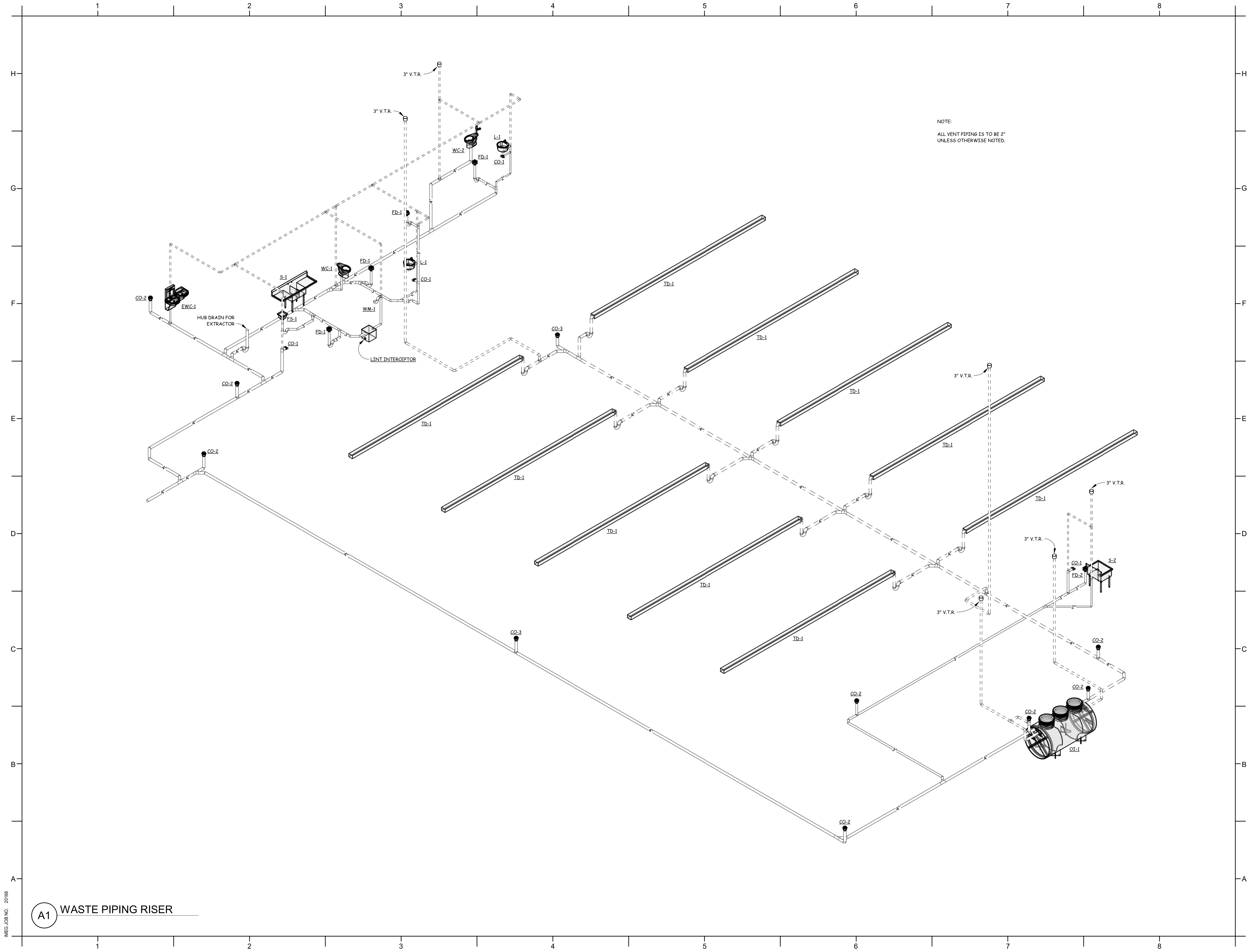
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SHEET TITLE  
PENETRATION  
DETAILS

P402





IMEG JOB NO. 20168

A1 WASTE PIPING RISER



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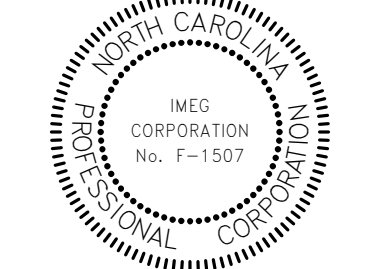
**ATLANTEC**  
ENGINEERS, P.A.  
**IMEG**

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PROJECT INFORMATION

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SHEET TITLE  
WASTE PIPING  
RISER

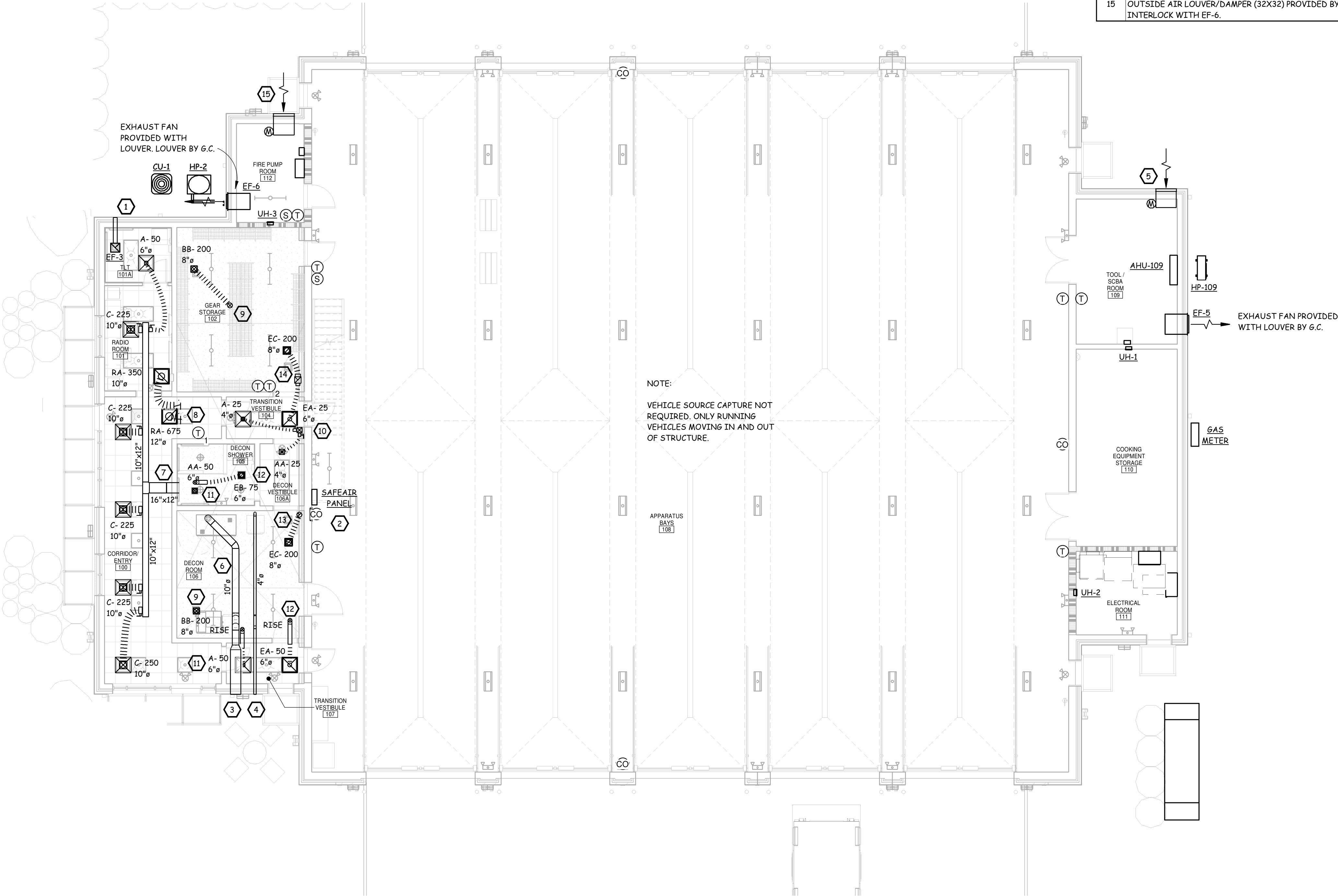
P500







KEY NOTES FOR 1/M100	
1	PROVIDE 6"Ø EXHAUST DUCT AND TERMINATE WITH WALL CAP.
2	SEE SHEET M301-M304 FOR DETAILS FOR TOXIC GAS MONITORING
3	PROVIDE 16X8 RIGID EXHAUST DUCT FOR PPE DRYER. TERMINATE WITH ELBOW TURNED DOWN OR APPROVED TERMINATION BY MANUFACTURER.
4	PROVIDE 4"Ø RIGID DYRE DUCT FOR DRYER. TERMINATE WITH WALL CAP.
5	OUTSIDE AIR LOUVER/DAMPER (32X40) PROVIDED BY G.C. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK WITH EF-5.
6	WRAP DRYER DUCT WITH 3M FIRE BARRIER PLENUM WRAP OR EQUAL PER MANUFACTURER'S INSTRUCTIONS.
7	16X12 SUPPLY DUCT FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
8	RETURN FLEX DUCT TO MEZZANINE. SEE 1/M101 FOR CONTINUATION.
9	8"Ø SUPPLY DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
10	8X8 SUPPLY DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
11	6"Ø SUPPLY DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
12	6"Ø EXHAUST DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
13	8"Ø EXHAUST DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
14	10X10 EXHAUST DUCT DOWN FROM MEZZANINE. SEE 1/M101 FOR CONTINUATION.
15	OUTSIDE AIR LOUVER/DAMPER (32X32) PROVIDED BY G.C. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK WITH EF-6.



NOTE:  
VEHICLE SOURCE CAPTURE NOT  
REQUIRED. ONLY RUNNING  
VEHICLES MOVING IN AND OUT  
OF STRUCTURE.



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

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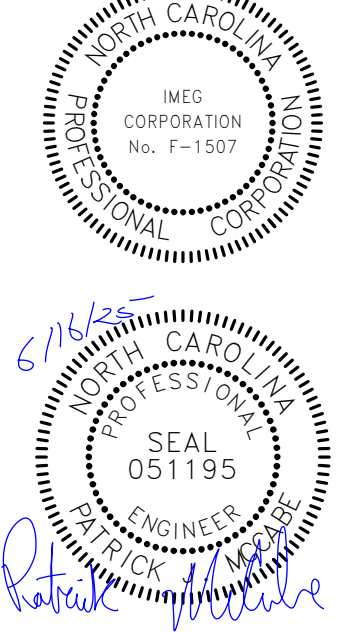
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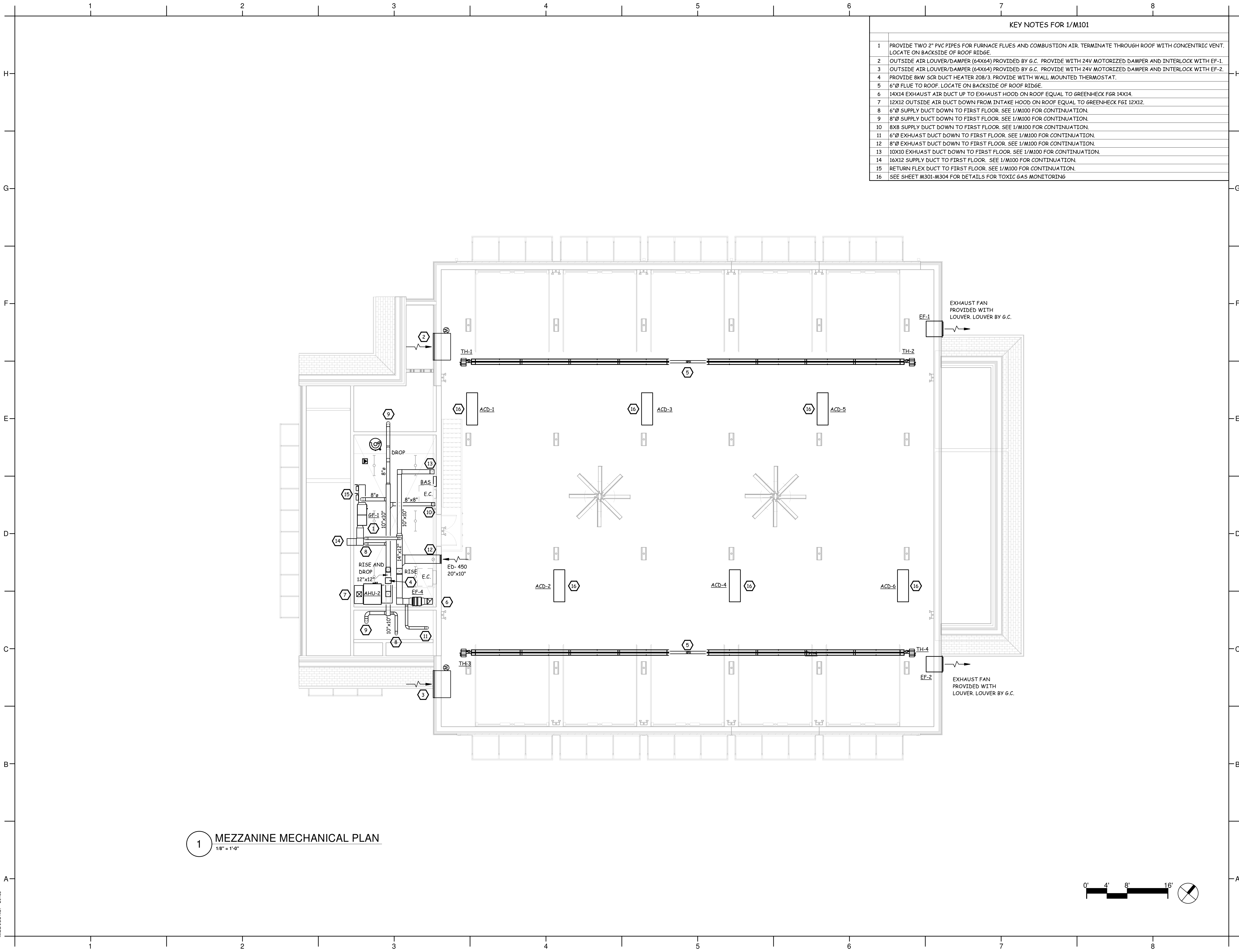
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SHEET TITLE  
MECHANICAL PLAN

**M100**





KEY NOTES FOR 1/M101	
1	PROVIDE TWO 2" PVC PIPES FOR FURNACE FLUES AND COMBUSTION AIR. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT. LOCATE ON BACKSIDE OF ROOF RIDGE.
2	OUTSIDE AIR LOUVER/DAMPER (64X64) PROVIDED BY G.C. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK WITH EF-1.
3	OUTSIDE AIR LOUVER/DAMPER (64X64) PROVIDED BY G.C. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK WITH EF-2.
4	PROVIDE 8KW SCR DUCT HEATER 208/3. PROVIDE WITH WALL MOUNTED THERMOSTAT.
5	6"Ø FLUE TO ROOF. LOCATE ON BACKSIDE OF ROOF RIDGE.
6	14X14 EXHAUST AIR DUCT UP TO EXHAUST HOOD ON ROOF EQUAL TO GREENHECK F6R 14X14.
7	12X12 OUTSIDE AIR DUCT DOWN FROM INTAKE HOOD ON ROOF EQUAL TO GREENHECK F6I 12X12.
8	6"Ø SUPPLY DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
9	8"Ø SUPPLY DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
10	8X8 SUPPLY DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
11	6"Ø EXHUAUST DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
12	8"Ø EXHUAUST DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
13	10X10 EXHUAUST DUCT DOWN TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
14	16X12 SUPPLY DUCT TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
15	RETURN FLEX DUCT TO FIRST FLOOR. SEE 1/M100 FOR CONTINUATION.
16	SEE SHEET M301-M304 FOR DETAILS FOR TOXIC GAS MONITORING

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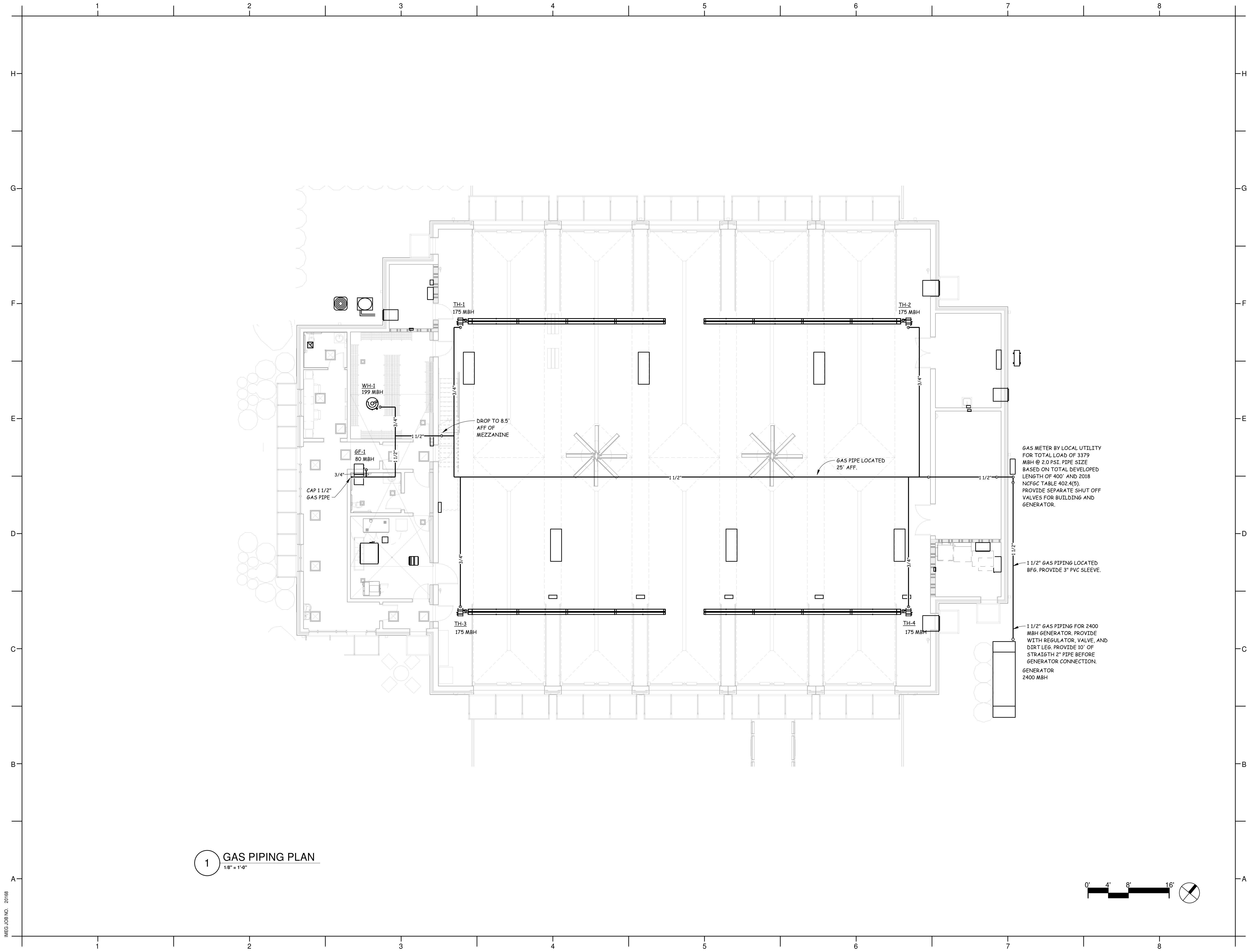
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SHEET TITLE

MEZZANINE  
MECHANICAL PLAN

M101





1 GAS PIPING PLAN  
1/8" = 1'-0"



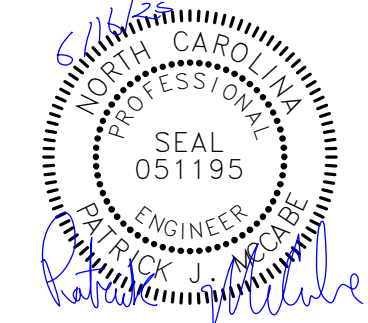
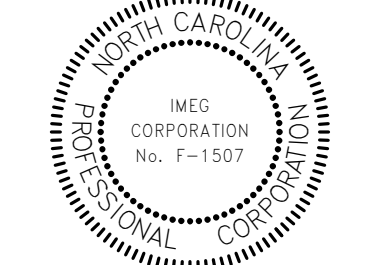
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**SHEET TITLE**  
GAS PIPING PLAN

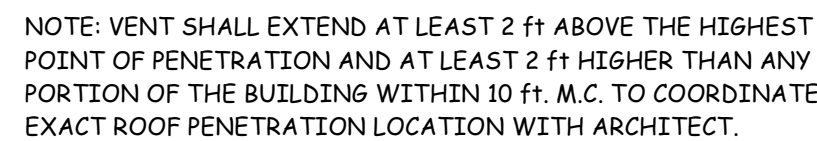
**M102**





NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT ON OUTDOOR UNITS.
2. PROVIDE WITH MOTOR RATED DISCONNECT SWITCH FOR INDOOR UNIT.
3. PROVIDE WITH BACNET COMMUNICATING THERMOSTAT WITH 10 HR BATTERY BACKUP AND 2 HOUR OVERIDE..
4. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPER AND SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS
5. ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK.
6. PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.
7. PROVIDE WITH 2" PLEATED FILTER RACK AND MERV 13 FILTER AT UNIT.
8. PROVIDE WITH GAS REGULATOR.



# 1 FLUE DETAIL

NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT ON OUTDOOR UNITS.
2. PROVIDE WITH MOTOR RATED DISCONNECT SWITCH FOR INDOOR UNIT.
3. PROVIDE WITH CONDENSATE PUMP AND ROUTE DISCHARGE TO EXTERIOR.
4. PROVIDE WITH WIRED THERMOSTAT.
5. ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK.
6. PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.
7. PROVIDE WITH 2" PLEATED FILTER RACK AND MERV 13 FILTER AT UNIT.
8. CONTROL VIA BAS.

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONTROL VIA LIGHT SWITCH BY E.C.
4. CONTROL VIA SAFEAIR PANEL. SEE M300 SHEETS FOR MORE INFORMATION.
5. FAN TO RUN CONTINUOUSLY.
6. INTERLOCK FAN WITH SCBA OPERATION
7. PROVIDE WITH STARTER/DISCONNECT FOR CONTROL INTERLOCK.
8. PROVIDE WITH LOUVER EQUAL TO POTTORFF MODEL EFD-435.
9. CONTROL VIA THERMOSTAT.

NOTES:

1. COORDINATE FINISH WITH ARCHITECT.
2. GRILLE TO HAVE FULLY LOUVERED FACE.
3. PROVIDE WITH INSULATED SHEET METAL PLENUM.
4. PROVIDE FRAME FOR SURFACE MOUNTING.
5. PROVIDE WITH OPPOSED BLADE DAMPER.

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH HANGING KIT.
4. PROVIDE WITH GAS REGULATOR, DIRT LEG, AND VALVE AT CONNECTION.
5. PROVIDE WITH AUTOMATIC DOOR SWITCH TO SHUT DOWN WHEN ANY BAY DOOR IS OPEN.

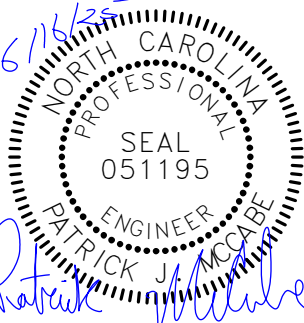
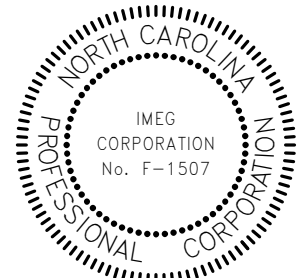
NOTES:

1. PROVIDE WITH POWER DISCONNECT.
2. PROVIDE WITH INTEGRAL THERMOSTAT.
3. PROVIDE WITH SURFACE MOUNTING KIT.



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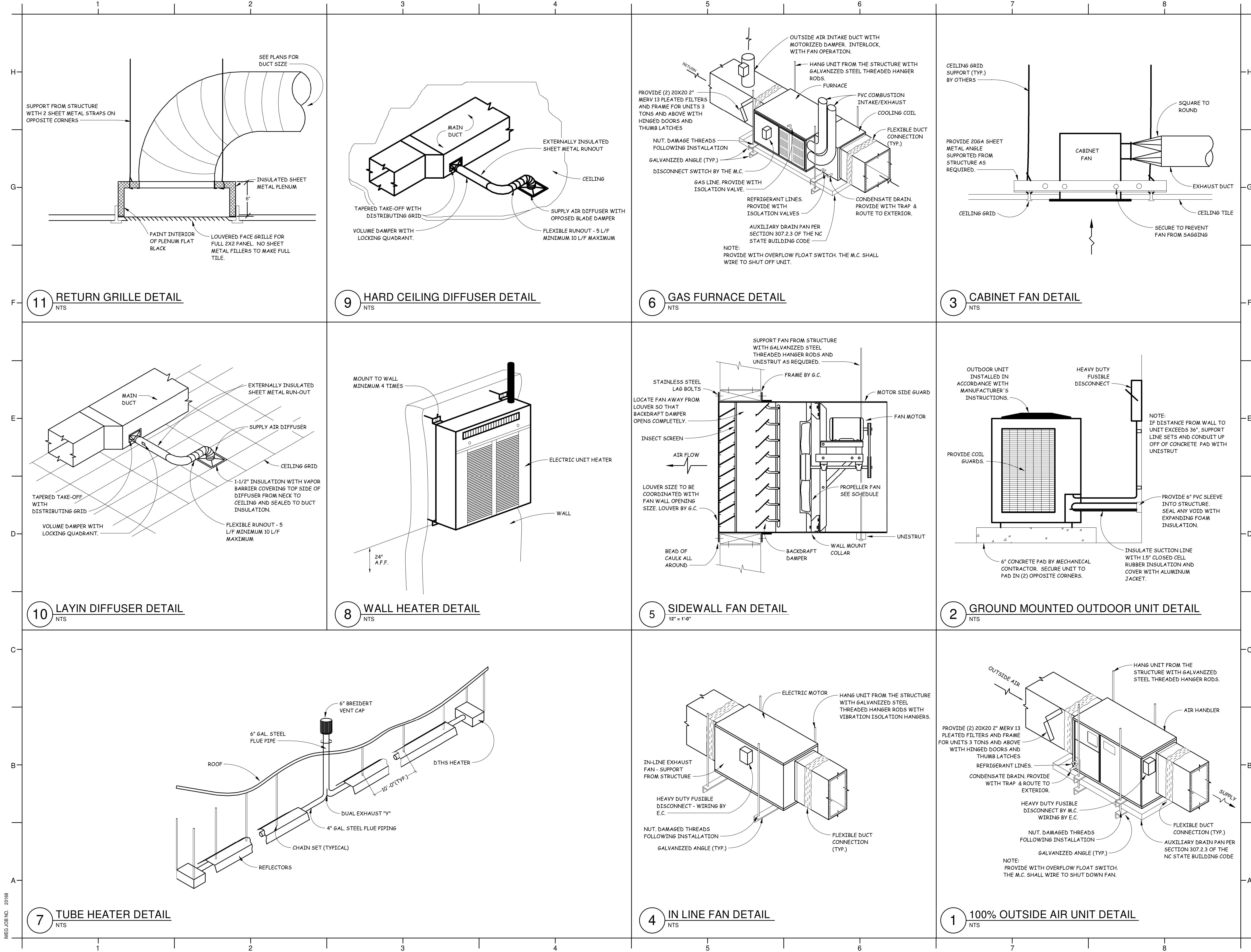
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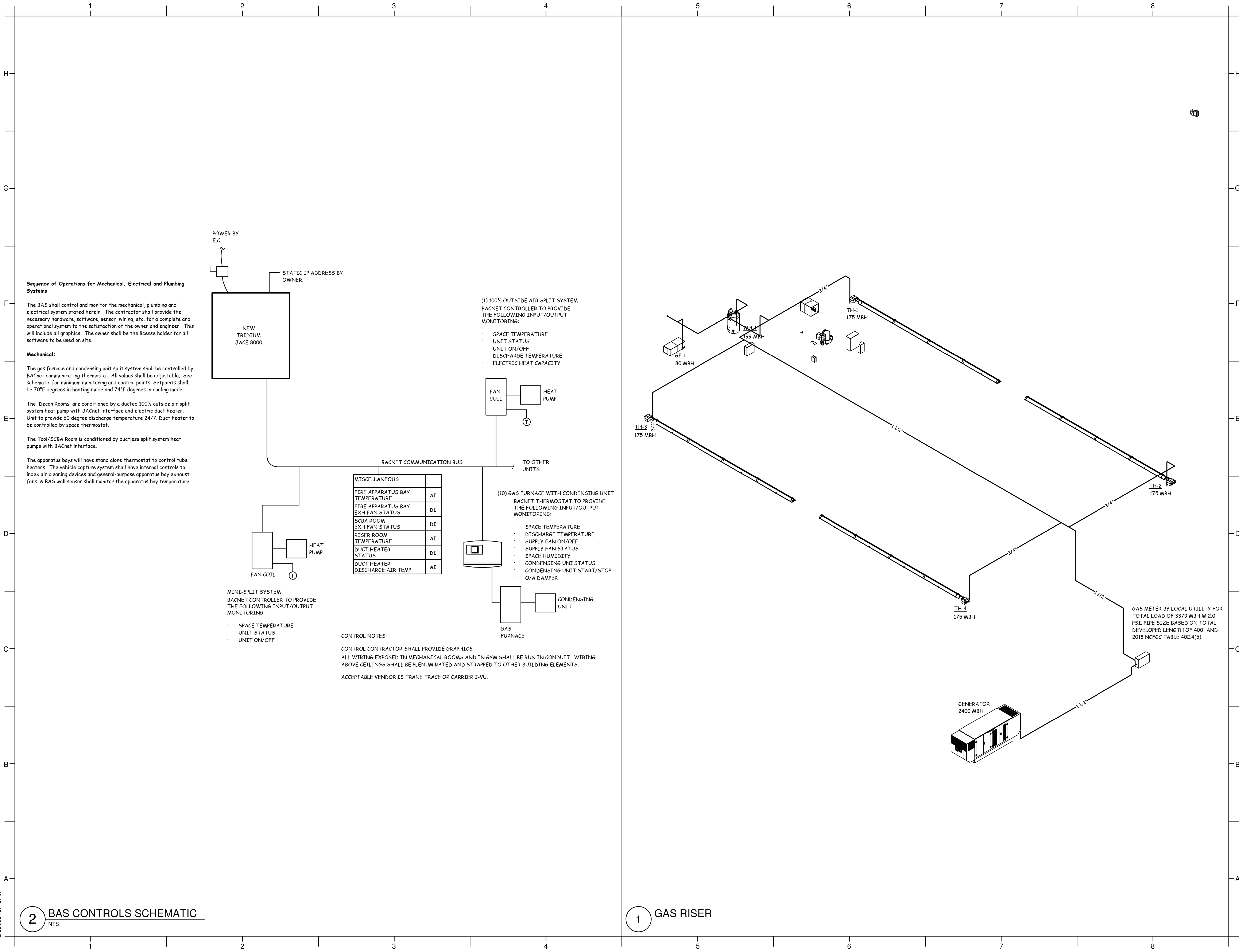
MECHANICAL  
SCHEDULES

M200









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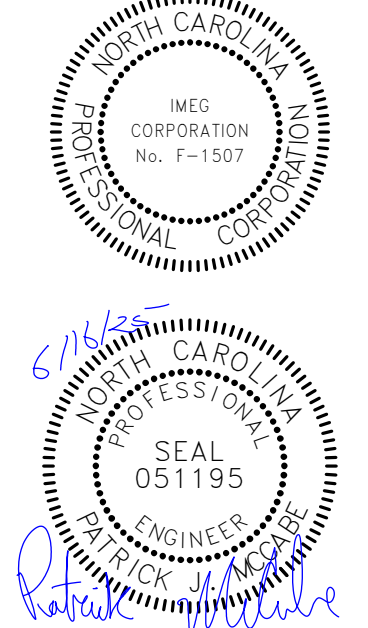
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**SHEET TITLE**  
GAS RISER

**M202**



SAFEAIR SYSTEMS SETS THE STANDARD

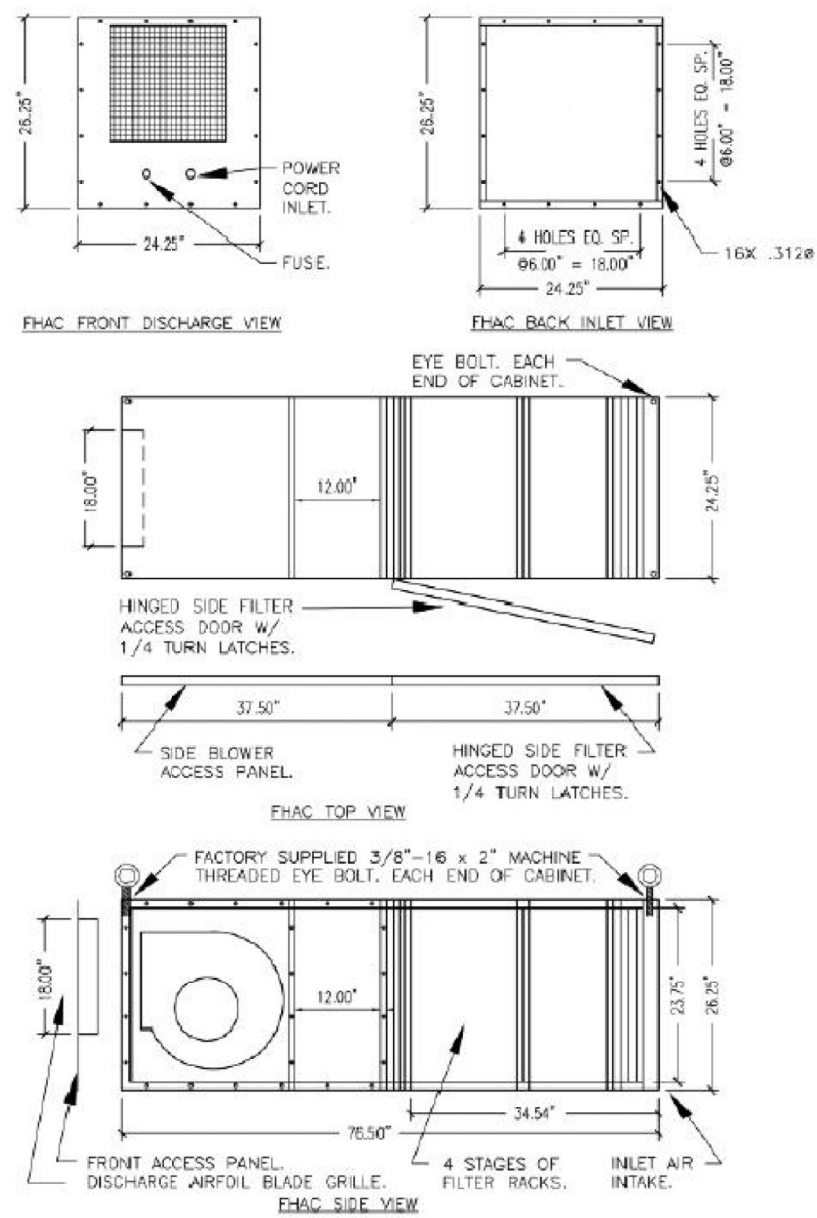
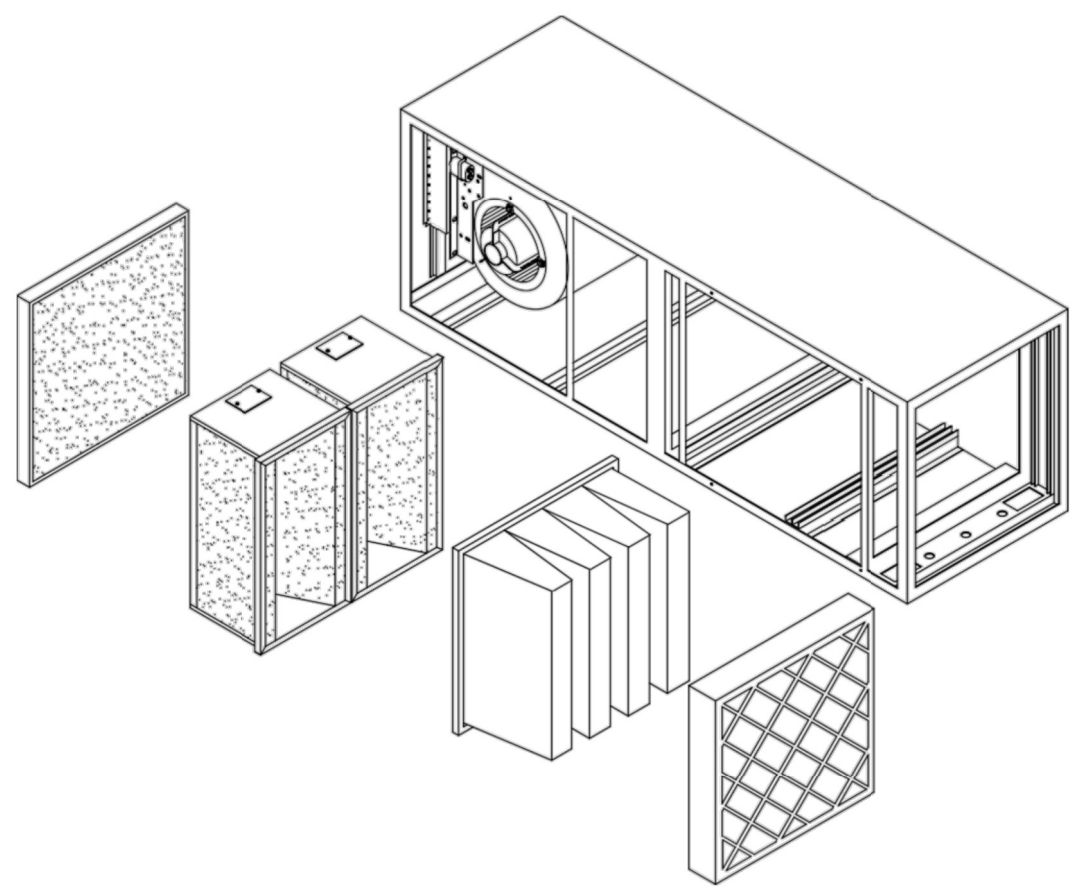
The SafeAir® FHAC-3000 was designed for Smoke & Dust Control, Diesel Smoke, Coolant Mist, Oil Smoke, and other atmospheric pollutants in Fire Stations / Repair Garages / MFG Plants / Small Workshops / Schools Shops / Etc. This All in One unit, that includes Blower-Motor and Multi Stage High Efficiency Filtration was reduce the pollutants to a safer levels to meet OSHA and other standards for Indoor Air Quality (IAQ).

These units are a complete, packaged air filter units that can easily be free hung in the room space to provide an air exchange rate (4-10 min) in the space or attached to ductwork and pickup hoses for source collection of pollutants.

The Model FHAC-3000 is capable of producing 3000 CFM with Standard 1 HP motor package

The standard unit configuration consists of 4 stages of filtration:

- **Stage 1** - Pleat Pre-Filter - 24"x24"x4" @ MERV 8-11 that traps larger particles (>1 Micron).
- **Stage 2** - HEPA Filter - 24"x24"x12" @ MERV 14-16 that traps smaller particles (< 1 Micron).
- **Stage 3** - Gas & Oder Control – 24"x24"x12"-26 pounds of adsorption Media (CarbonBlend)
- **Stage 4** - After Filter - 24"x24"x2" @ MERV 8 that traps carbon dust particles (> 1 Micron).



FARMVILLE FIRE STATION & HEADQUARTERS  
6101 MAY BOULEVARD  
FARMVILLE, NC 27828  
  
APPARATUS BAY  
VENTILATION SYSTEM



SAFE AIR CORPORATION  
PO BOX 3077  
SARASOTA, FL 34230-3077  
CONTACT: WAYNE LUTZ  
PHONE: 1.800.798.8820  
EMAIL: wlutz@safeairco.com

AIR CLEANING SPECIALISTS  
3701 BASTION LANE  
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CONTACT: BILL LEFAVOR  
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PHONE: 919.855.2024  
EMAIL: patrick@atlantecengineers.com

GENERAL NOTES & SPECIFICATIONS:

1. THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT PERMITS, FEES, INSPECTIONS, TEST, INSURANCE, ETC., REQUIRED FOR THE COMPLETION OF THE VENTILATION SYSTEMS SHOWN ON THE DRAWINGS OR LISTED BELOW.
2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY BEND, OFFSET, ELBOW OR OTHER FITTINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION IN THE SPACE ALLOCATED, OR FOR COORDINATION WITH OTHER TRADES.
3. DRAWINGS ARE NOT BE SCALED UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE DRAWINGS AND SITE CONDITIONS SHALL GOVERN EXACT LOCATION OF EQUIPMENT AND APPURTENANCES.
4. INTENT:  
IT IS THE INTENT OF THE PLANS AND GENERAL NOTES TO PROVIDE A COMPLETE AND OPERATING INSTALLATION INCLUDING ALL NECESSARY ITEMS REQUIRED, EVEN THOUGH ITEMS ARE NOT INDICATED ON THE DRAWINGS OR IN THE NOTES. WORK CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK IN PROPER MANNER NOT SHOWN ON THE PLANS OR NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING PRIOR TO BIDS OTHERWISE WORK SHALL BE ADDITIONAL CHARGED AFTER BID IS AWARDED.
5. DEFINITIONS:  
A. PROVIDE – FURNISH AND INSTALL  
B. UNDER THIS SECTION – IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO DONE BY AND PAID FOR BY THE CONTRACTOR.  
C. BY THIS SECTION – IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE DONE BY AND PAID FOR BY THE CONTRACTOR.
6. INDOOR AIR QUALITY PRECAUTIONS  
A. THE CONTRACTOR SHALL ALLOW FOR NECESSARY VENTILATION DURING CONSTRUCTION TO AVOID INDOOR AIR POLLUTION.  
B. THE CONTRACTOR SHALL PREPARE WRITTEN DIRECTION BY WHICH THE BUILDING OWNER OR IT REPRESENTATIVE WILL BE ABLE TO OPERATE THE VENTILATIONS SYSTEMS AT ITS OPTIMAL LEVEL.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL CODES AND ORDINANCES.
8. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE WITH PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
9. PATCH AND PAINT EXISTING WALLS AND CEILINGS AS REQUIRED TO MATCH EXISTING ADJACENT FINISH AND COLOR.
10. CUT ALL OPENINGS, CHASES, TRENCHES, ETC. REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION AND REPAIR ALL WALLS, ROOF, ETC. DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THIS BUILDING.
11. ALL BUILDING CONSTRUCTION AFFECTED BY THE REMOVAL, RELOCATION, INSTALLATION OF ANY PIECE OF EQUIPMENT SHALL BE REPAIRED AND REFINISHED AS REQUIRED TO MATCH EXISTING CONDITIONS OR AS DIRECTED BY THE ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS.
12. VENTILATION EQUIPMENT, AIR DISTRIBUTION, FAN MATERIALS, ETC., SHALL BE AS LISTED HEREIN AND/OR SHALL BE AS SCHEDULED ON THE DRAWINGS.
13. FILTERS:  
A. PRE AND FINAL FILTERS: SHALL BE PLEATED WITH MOISTURE RESISTANT BEVERAGE BOARD FRAME, RUST RESISTANT SUPPORT GRID, DOUBLE WALL FRAME DESIGN AND MERV 8 FRACTIONAL EFFICIENCY RATING IN ACCORDANCE WITH ASHRAE TEST STANDARD 52.2. FILTER SHALL ALSO PROVIDE AN INITIAL DUST SPOT EFFICIENCY OF 99%, AN AVERAGE DUCT SPOT EFFICIENCY OF 35-45% IN ACCORDANCE WITH ASHRAE TEST STANDARD 52.1.  
B. MAIN FILTER: SHALL BE HEPA FILTER TYPE A, UL LISTED AND DOP TESTED MIL-STD-282 METHOD TO MEET THE MINIMUM EFFICIENCY OF 99.97% AIRBORNE PARTICLES AT 0.3 MICROMETERS IN DIAMETER. HEPA SHALL ALSO BE MERV-14 FRACTIONAL EFFICIENCY RATING IN ACCORDANCE WITH ASHRAE TEST STANDARD 52.2. FILTER SHALL ALSO PROVIDE AN INITIAL DUST SPOT EFFICIENCY OF 90-95% AND AN AVERAGE DUST SPOT EFFICIENCY OF 90-95% IN ACCORDANCE WITH ASHRAE TEST STANDARD 52.1.  
C. GAS FILTER: SHALL BE ACTIVATED CARBON WITH UP TO 28 LBS. OF CARBON.
14. PCO/UV LIGHT SYSTEM: SHALL BE UL LISTED, IN DUCT MOUNTING WITH 24 VAC POWER SOURCE, LED LIGHT INDICATOR FOR BULB REPLACEMENT, UV LIGHT ADJUSTABLE ALUMINUM SHIELD, V0 FIRE RATED, UV STABILIZED POLYCARBONATE HOUSING.
15. CONTROLS:  
A. SAFE AIR CORPORATION CENTRAL VENTILATION CONTROLLER MODEL WD-4E CONTROLS AND INTERLOCKS MULTIPLE FAN MOTORS AND WILL MONITOR EXTERNAL GAS SENSORS WHILE PROVIDING VISUAL AND AUDIBLE ALARM WARNING SIGNALS SHOULD A THRESHOLD LEVEL OF GASSES BE DETECTED, LOSS OF POWER OR DIRTY FILTER SIGNAL.  
B. CONTROL UNIT SHALL BE UL508A LISTED AND CONSIST OF A KEY LOCKABLE NEMA 4X ENCLOSURE, HOUSING A FACTORY MOUNTED LOCKOUT/TAGOUT DISCONNECT, 24 VAC CONTROL TRANSFORMER, MICROPROCESSOR BASED CIRCUIT BOARD, RADIO RECEIVER, BACKUP BATTERY AND MISCELLANEOUS FUSES, TERMINALS, ETC.  
C. CO/NO2 SENSORS SHALL BE ELECTROCHEMICAL GAS SENSORS, LOOPED POWERED DELIVERING A LINEAR 4-20 MA OUTPUT, EASILY MOUNTED IN A SINGLE GANG ELECTRICAL J BOX AND CSA LISTED (UL EQUIVALENT).
16. SAFE AIR CLEANER UNITS:  
MODEL: SA-FHRC-3000-115AD-230V-1PH-ETL  
DIMS: 26.25" W X 76.50" L X 26.25" H  
WEIGHT: 320 LB. NOISE LEVEL: 68 DBA  
CONSTRUCTION: 16 GAUGE WELDED ZINC COATED STEEL CABINET, FINISHED WITH A TWO PART CHEMICAL AND OIL RESISTANT PAINT, INCLUDES SIDE ACCESS DOOR TO 4 STAGE FILTER RACK AND MOTOR WITH 4-WAY ADJUSTABLE AIRFOIL BLADE DISCHARGE GRILLE.  
BUILT IN LOCKOUT/TAGOUT DISCONNECT.  
FORWARD CURVE WHEEL, DIRECT DRIVE, OPEN DRIP PROOF MOTOR 1 HP 208-230 V/1 PH/60 HZ @ 7.2-6.9 AMPS
17. ELECTRICAL:  
A. ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, NEC, NFPA AND COMPLY WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND ORDINANCES.  
B. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION.  
C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE CURRENT EDITION OF THE NEC.  
D. VERIFY ALL VOLTAGES WITH ELECTRICAL CONTRACTOR AND/OR SUB-CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.  
E. ELECTRICAL CONTRACTOR AND/OR SUB-CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL FIELD CONDITIONS AND MODIFY AS REQUIRED, TO SUIT NEW EQUIPMENT. ALL EXPOSED WIRING SHALL IN ENT AND NEATLY RUN ALONG BUILDING STRUCTURE.  
F. ALL ELECTRICAL COMPONENTS SHALL BE NEW, UL LISTED AND APPROVED BY THE BUILDING DEPARTMENT.  
G. THE USE OF ELECTRICAL EQUIPMENT THAT PRODUCES ELECTRICAL FREQUENCY TRANSMISSION SHALL BE DESIGNED THAT THERE WILL BE NO POSSIBILITY OF ELECTRICAL BACK-FEED OR INTERFERENCE TO COMMUNICATION OR TO VEHICLE ONBOARD COMMUNICATIONS, COMPUTER LOGIC OR NAVIGATIONAL EQUIPMENT.  
H. OPERATING SYSTEM SHALL HAVE AN ELECTRICAL ENCLOSURE CONVENIENTLY MOUNTED WITH A KEY LOCK ACCESS TO INTERNAL COMPONENTS AND A LOCKOUT/TAGOUT EXTERNAL DISCONNECT SWITCH SHOULD BE INSTALLED IN THE FACE OF THE ENCLOSURE FOR OPERATING EXHAUST SYSTEMS.  
I. ALL WIRING SHALL BE LABELED AT BOTH ENDS AND IDENTIFY ALL TERMINALS, FUSES, CONTACTORS ON BOTH SUPPLY AND TERMINATION POINTS.
18. PROVIDE TURNOVER OF EACH INSTALLED SYSTEM, CONTRACTOR SHALL COMPLETE AN ACCEPTANCE TEST AND INSPECTION, INDICATING FULL COMPLIANCE WITH SPECIFICATIONS AS PER DESIGN, AND TO THE SATISFACTION OF OWNER/OWNERS REPRESENTATIVE.
19. FOR ADDITIONAL INFORMATION OR SUBMITTALS CONTACT: SAFE AIR CORP. WAYNE LUTZ / DESIGN@SAFEAIRCO.COM/ 800-798-8820.

MECHANICAL INDEX

		DRAWING			
1	ME-1	MECHANICAL INDEX, SYMBOL LEGEND AND NOTES.			
2	ME-2	MECHANICAL PLAN			
3	ME-3	WIRING DIAGRAMS			
4					
5					

AIR FILTRATION SCHEDULE

UNIT DESIGNATION	SPEC DETAILS
MANUFACTURER	SAFEAIR
MODEL NUMBER	SA-FHRC-3000-115AD-230V-1PH-ETL
UNIT DIMENSIONS	76.5 X 26.25 X 26.25
CONSTRUCTION	16 GA STEEL COATED RED
SOUND POWER	68 DBA
OPERATING WEIGHT LBS.	320
SHIPPING WEIGHT LBS.	427
AREA SERVED	APPARATUS BAYS
MOUNTING HEIGHT	13'-0" AFF
FAN TYPE	CENTRIFUGAL
TOTAL AIR CFM	2500-3000
DRIVE TYPE	DIRECT
FAN WHEEL TYPE	FORWARD CURVED
FAN SPEED, RPM	1097
TOTAL STATIC PRESSURE IN. OF H2O	1.6"
FAN MOTOR HP (NON OVERLOAD)	1
FAN MOTOR TYPE	ODP
ELECTRICAL SERVICE AVAILABLE	208/230-1-60
CURRENT AMPS	7.2/6.9
PRE FILTER - PLEATED	24X24X4 MERV-11
MAIN FILTER - HEPA	24X24X12 MERV-14
GAS FILTER - CARBON	24X24X12 40 LBS
AFTER FILTER - PLEATED	24X24X2 MERV-8
UV LIGHT/PCO	3000 SF/45 WATT
SERVICE SWITCH DISCONNECT	LOCKOUT/TAGOUT
FAN INTERLOCK	WD-4E CONTROLLER
DIRTY FILTER INDICATOR	LED LIGHT-RED
BIRDSCREEN	YES
FILTER PRESSURE SWITCH	1.0" - 4.0" WG SP

AIR CHANGE RATE EQUATION

L=100'  
W=93'  
H=18'  
CF=167,400  
ACD=18,000 CFM  
EXHAUST FAN  
CFM=17,630  
TOTAL CFM=35,630  
TOTAL AER=4.5 MIN.

SafeAir Corp. Transmitter - SA-WD-VTK-2

The SafeAir Vehicle transmitter kit (SA-WD-VTK-2) is designed to control the starting of the SafeAir Central Ventilation Controller (WD-4E-UL) by the starting of vehicles that would be housed in a fire station or other facility.

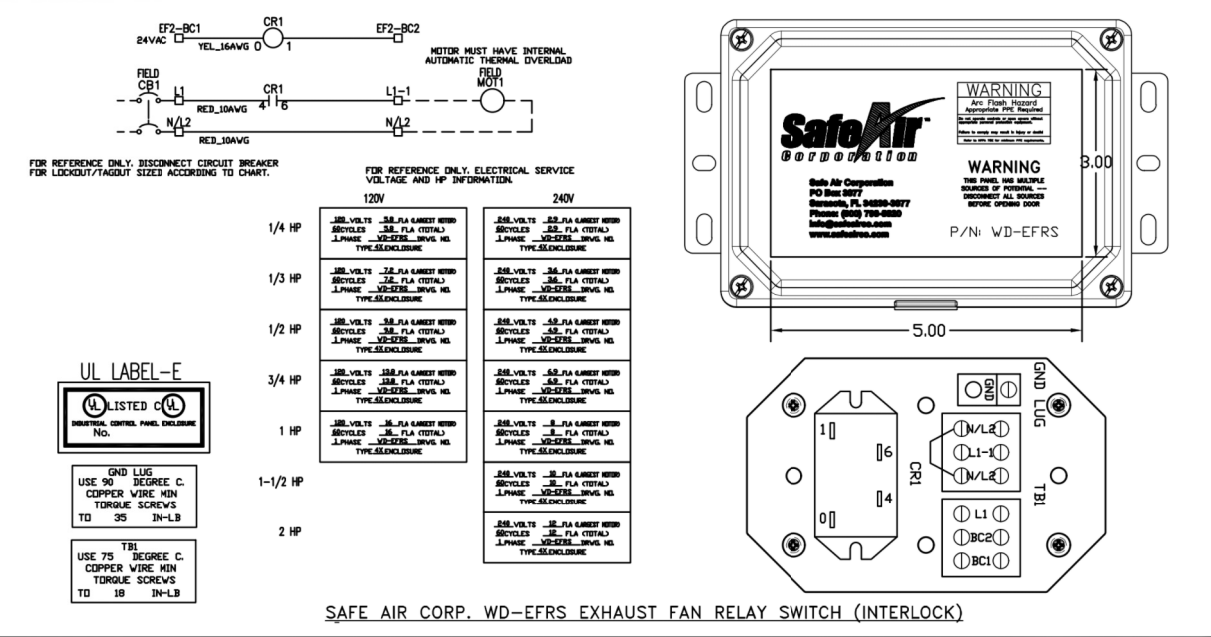
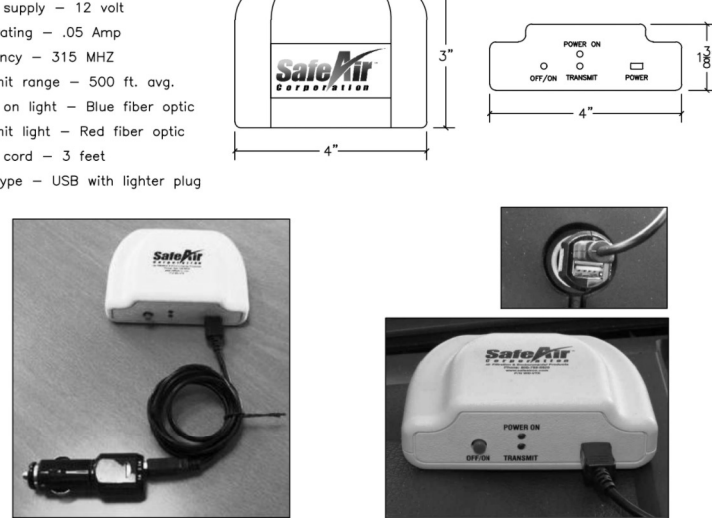
The VTK is designed to auto start the Fan controls (WD-4E-UL) when the vehicle is started in the station or when the vehicle returns to the station and gets within 500 feet of the Building.

This transmitter is mounted on the Dashboard of the vehicle by a Velcro button and is plugged into the lighter outlet of the vehicle (plug & play) that is connected to key switchable power. When the vehicle is turned on, the transmitter will transmit for as long as the vehicle runs in the station or moves outside the 500' radius of the building.

The USB power cord/lighter more plug is provided with the transmitter kit and is fused to protect the transmitter from surge. There are two USB outlets on the lighter plug that allow for the VTK transmitter power and one for Phone or laptop power supply. No custom installation wiring is needed. The VTK transmitter will recognize the Start or Return of the vehicles and start device captures blowers, general area exhaust fans, Air filtration or cleaners and open motor drive dampers.

The VTK has a Power On Light (Blue) located on the power plug and transmitter to show power is supplied to the unit. The transmitter also has a red light to indicate that the transmitter is transmitting as desired. A red temporary stop button located on the VTK unit, allows the operator to press the button and stop the signal to the fan controller. This is used when vehicles are outside the bay for service or daily inspections.

Dimensions - 4"x 3"x 1.38"  
Color - White Sun Shield  
Power supply - 12 volt  
Fuser rating - .05 Amp  
Frequency - 315 MHz  
Transmit range - 500 ft. avg.  
Power on light - Blue fiber optic  
Transmit light - Red fiber optic  
Power cord - 3 feet  
Cord type - USB with lighter plug



No.	DATE	REVISIONS	Date
			11/01/2021
			Scale AS SHOWN
			Designed W.L.
			Drawn L.W.
			Checked W.L.
			Project No.
			Sheet ME-1



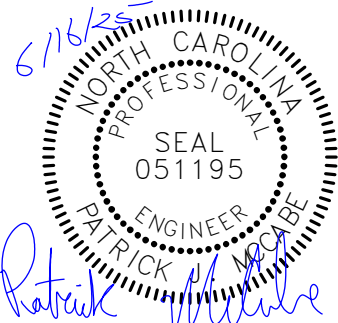
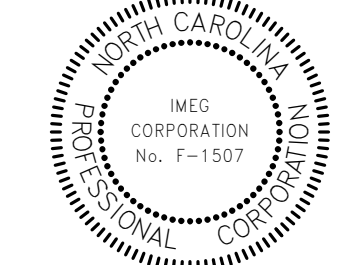
PROJECT INFORMATION

ATLANTEC ENGINEERS PA  
IMEG  
3221 BLUE RIDGE ROAD, SUITE 113  
RALEIGH, NC 27612  
(919) 571-1111  
IMEG# 20168

PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DATE	REVISIONS

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Drawn By: PJM  
Plot Date: 6/16/2025 1:22:48 PM

DATE ISSUED

BID SET  
6/17/2025


SHEET TITLE  
SAFEAIR  
INFORMATION

M300



# M301



	<p>FARMVILLE FIRE STATION &amp; HEADQUARTERS</p> <p>6101 MAY BOULEVARD FARMVILLE, NC 27828</p>	
	<p>APPARATUS BAY VENTILATION SYSTEM</p>	



**Safe Air**™  
Corporation

SAFE AIR CORPORATION  
PO BOX 3077  
SARASOTA, FL 34230-3077  
CONTACT: WAYNE LUTZ  
PHONE: 1.800.798.8820  
EMAIL: [wlutz@safearco.com](mailto:wlutz@safearco.com)

AIR CLEANING SPECIALISTS

3701 BASTION LANE  
RALEIGH, NC 27604  
CONTACT: BILL LEFAVOR  
PHONE: 919.255.9344  
EMAIL: [blefavor@acscarolinas.com](mailto:blefavor@acscarolinas.com)

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NOTE:

1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH, RECEPTACLE AND WALL PLATE TO ARCHITECT PRIOR PURCHASING ANY.

ELECTRICAL DESIGN SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: Energy Code: ☒ Prescriptive ☐ Performance  
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE:	SEE FIXTURE SCHEDULE
NUMBER OF LAMPS IN THE FIXTURE:	SEE FIXTURE SCHEDULE
BALLAST TYPE USED IN THE FIXTURE:	SEE FIXTURE SCHEDULE
NUMBER OF BALLASTS IN THE FIXTURE:	SEE FIXTURE SCHEDULE
TOTAL WATTAGE PER FIXTURE:	SEE FIXTURE SCHEDULE
TOTAL INTERIOR WATTAGE:	3750 VS 7260 SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)
TOTAL EXTERIOR WATTAGE:	1118 VS 3850 SPECIFIED VS. ALLOWED

ADDITIONAL EFFICIENCY PACKAGE OPTIONS  
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:  
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED:   
NAME: SUJIN PRAMOJANEY, E.E.  
TITLE: ENGINEER



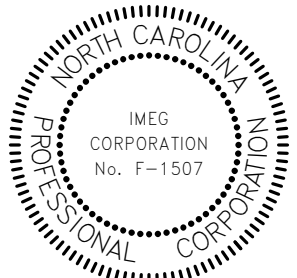
PROJECT INFORMATION



PROJECT INFORMATION

TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DESCRIPTION

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SHEET TITLE  
ELECTRICAL  
LEGEND NOTES

E001



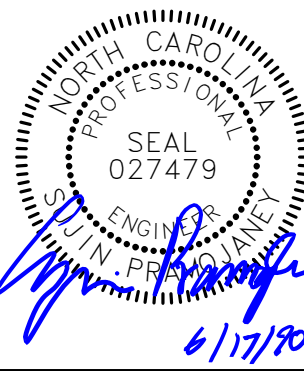
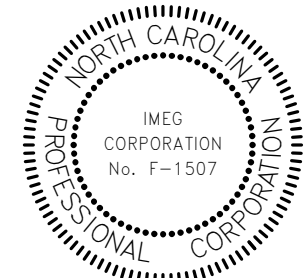
PROJECT INFORMATION

**ATLANTEC**  
ENGINEERS, P.A.  
**IMEG**  
3221 BLUE RIDGE ROAD, SUITE 113  
RALEIGH, NC 27612  
(919) 571-1111  
IMEG# 20168

PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



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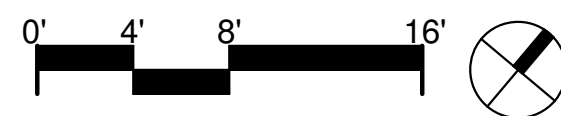
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**SHEET TITLE**  
LIGHTING PLAN

**E100**

KEY NOTES:

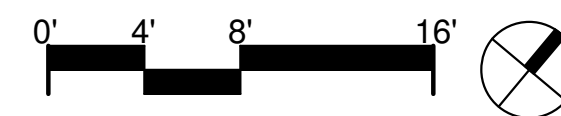
1. LIGHT WIRELESS ON/OFF SWITCH FOR ALL TYPE 'H' FIXTURES IN APPARATUS BAYS 108. PROGRAM SWITCH WITH DESIGNATED LIGHT FIXTURES AS REQUIRED.
2. TYPE 'S' AND 'S/M' INSTALLATION NOTES:
  - FIELD VERIFY FIXTURE LOCATION WITH M.C. PRIOR TO ROUGH-IN.
  - MOUNT FIXTURE ABOVE APPROX. 7 FT. A.F.F.
  - SET LUMEN TO 4000 LUMEN.
3. WALL MOUNTED EMERGENCY LIGHT MOUNTING HEIGHT.
  - 3A. MOUNT 6'-6" A.F.F. TO BOTTOM OF FIXTURE.
  - 3B. MOUNT 8' A.F.F. TO BOTTOM OF FIXTURE.
4. PHOTOCELL FOR LIGHTING CONTACTOR L.C.
  - FIELD COORDINATE LOCATION WITH ARCHITECT TO FACING NORTH AND NOT TO BE INTERFERED WITH ANY LIGHT SOURCE.
  - SEE DETAIL A7/E100 FOR WIRING DIAGRAM.



**A1** LIGHTING PLAN: MEZZANINE  
1/8" = 1'-0"

KEY NOTES:

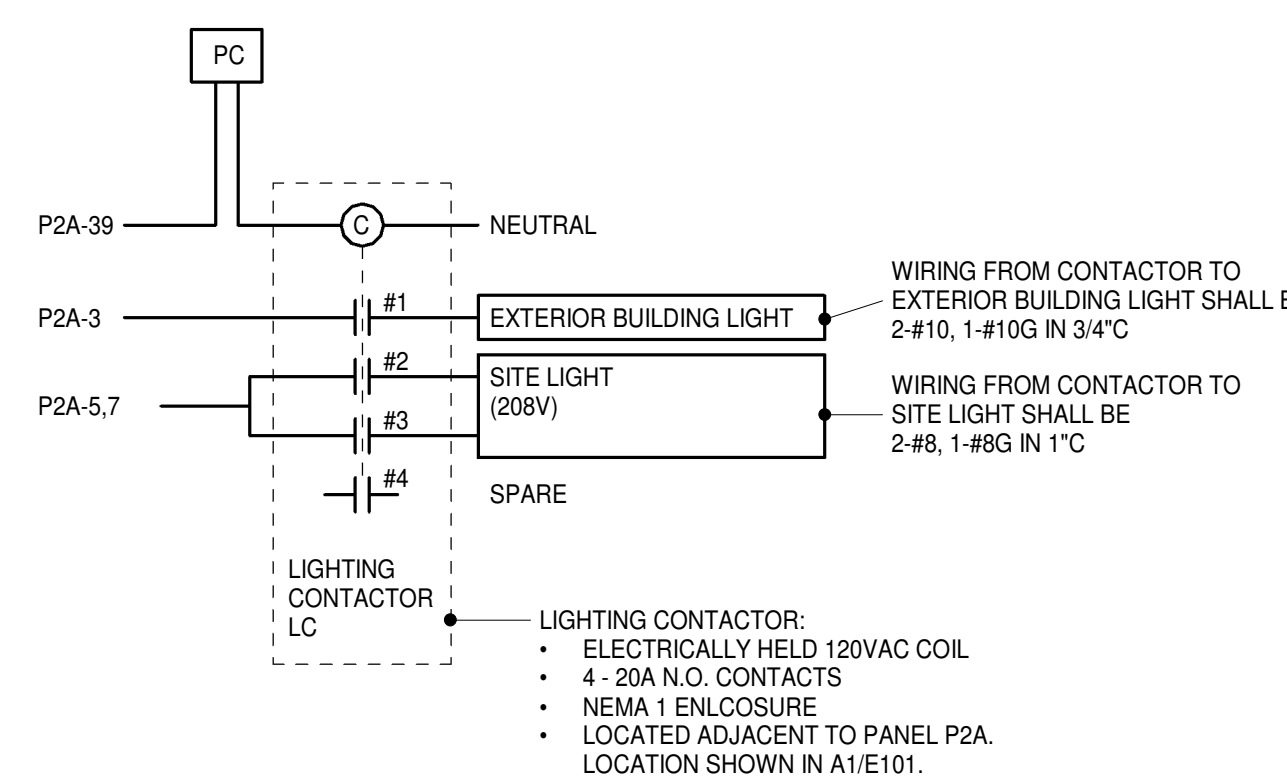
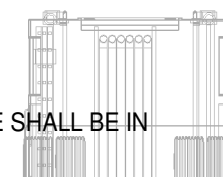
1. LIGHT WIRELESS ON/OFF SWITCH FOR ALL TYPE 'H' FIXTURES IN APPARATUS BAYS 108. PROGRAM SWITCH WITH DESIGNATED LIGHT FIXTURES AS REQUIRED.
2. WALL MOUNTED EMERGENCY LIGHT MOUNTING HEIGHT IN APPARATUS BAY:
  - 2A. MOUNT 8' A.F.F. TO BOTTOM OF FIXTURE.
  - 2B. MOUNT 12' A.F.F. TO BOTTOM OF FIXTURE.
3. EXTERIOR LIGHT FIXTURE WITH BATTERY BACKUP.
  - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO CKT# P2A-3.
  - CONNECT NORMAL CIRCUIT VIA LIGHTING CONTACTOR L.C.
  - FIELD VERIFY EXACT LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. APPROX. HEIGHT IS 8 FT. A.F.F.
4. EXTERIOR LIGHT FIXTURE.
  - CONNECT VIA LIGHTING CONTACTOR L.C.
  - FIELD VERIFY EXACT LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 4A. APPROX. HEIGHT IS 8 FT. A.F.F.
- 4B. APPROX. HEIGHT IS 12 FT. A.F.F.
5. SEE DETAIL A7/E100.



**A3** LIGHTING PLAN  
1/8" = 1'-0"

NOTES:

1. ALL WIRING IN AREA WITH EXPOSED TO STRUCTURE SHALL BE IN CONDUIT. THESE AREAS ARE:
  - 102 GEAR STORAGE
  - 108 DECON ROOM
  - 108 APPARATUS BAYS
  - 109 TOOL/SCBA ROOM
  - 110 COOKING EQUIPMENT STORAGE
  - 111 ELECTRICAL ROOM
  - 112 FIRE PUMP ROOM
  - M001 MEZZANINE
2. TYPE 'A' FIXTURE LUMEN SETTING:
  - 4000 LUMEN: 101A, 104, 106A, 107
  - 5000 LUMEN: 101
3. TYPE 'B' FIXTURE LUMEN SETTING:
  - 2000 LUMEN: 100
4. TYPE 'S' AND 'S/M' INSTALLATION NOTES:
  - HANG FIXTURES 9 FT. A.F.F., SET LUMEN TO 5000 LUMEN: 102, 106,
  - HANG FIXTURES 12 FT. A.F.F., SET LUMEN TO 4000 LUMEN: 110, 111, 112
  - HANG FIXTURES 12 FT. A.F.F., SET LUMEN TO 5000 LUMEN: 109



**A7** LIGHTING CONTACTOR DIAGRAM  
NTS



PROJECT INFORMATION

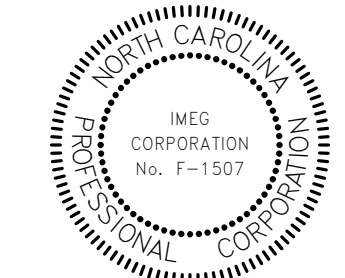
**ATLANTEC**  
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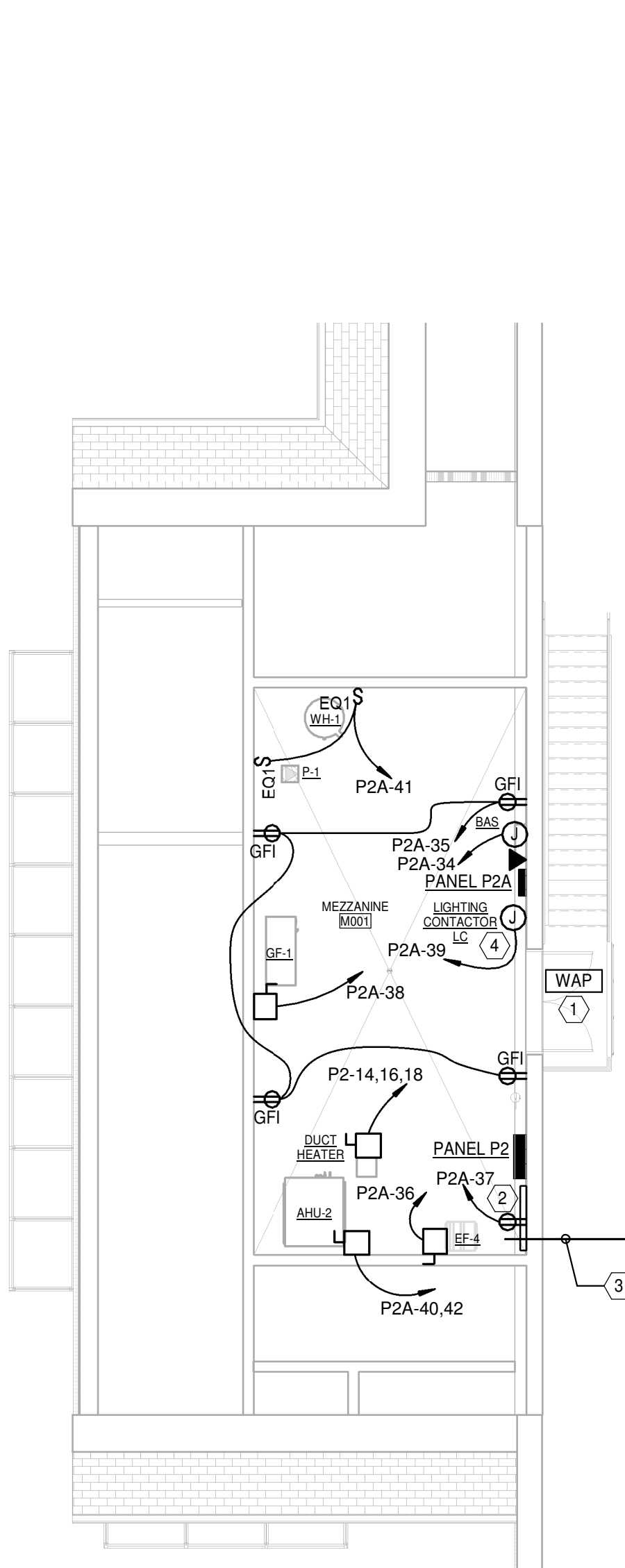
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6/17/2025

SHEET TITLE

POWER PLAN

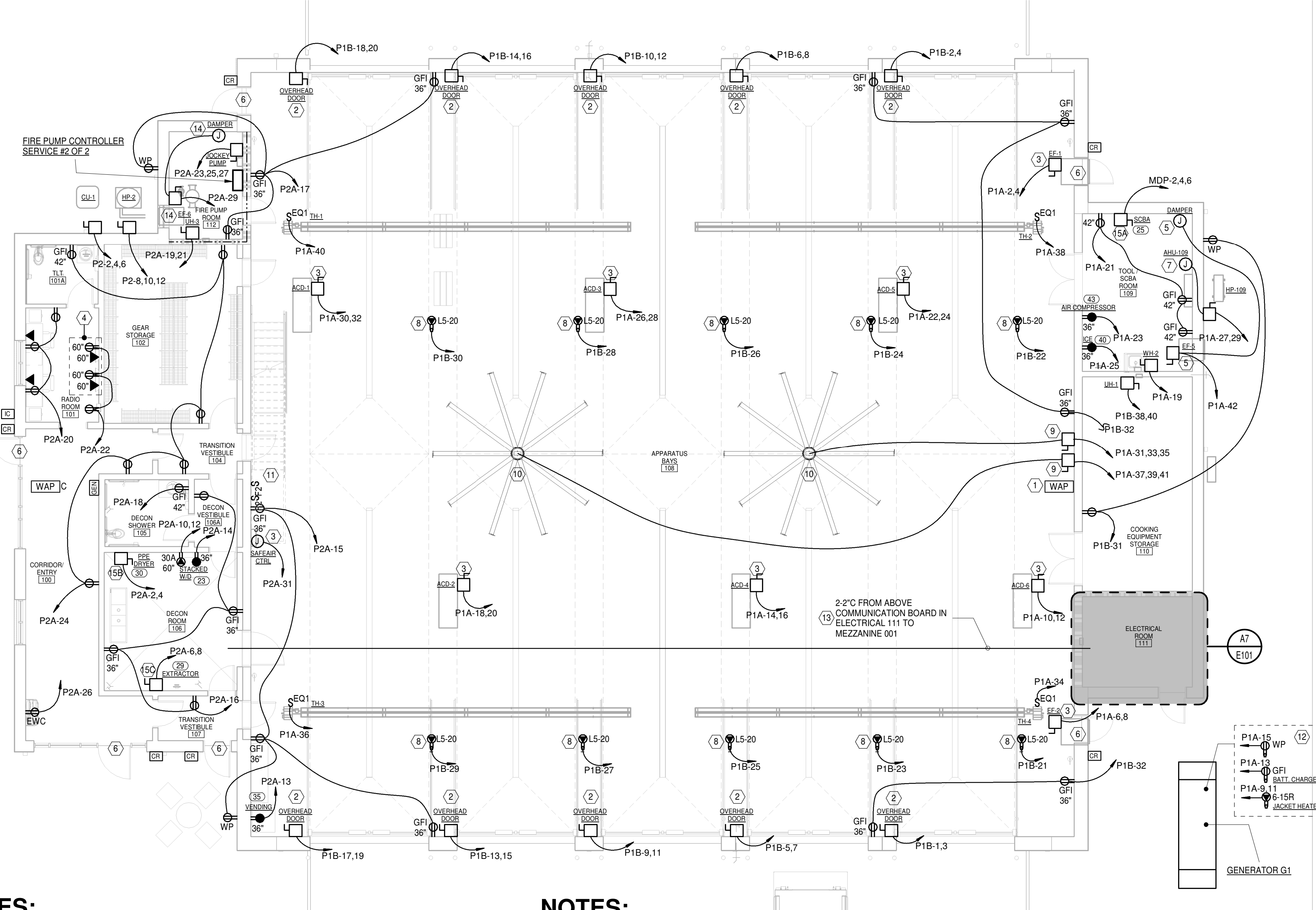
**E101**



KEY NOTES:

- 1 WALL MOUNTED WIFI ACCESS ON WALL ABOVE STAIR LANDING OF MEZZANINE LEVEL.
- 2 COMMUNICATION BOARD:
  - PROVIDE 4x8 3/4" THICK FIRE PROOF PLYBOARD ON THIS WALL.
  - PROVIDE GROUND BAR AND 1-#6G CU IN 1/2"C TO SERVICE DISCONNECT.
- 3 2-2"C FROM ABOVE COMMUNICATION BOARD IN ELECTRICAL 111 TO MEZZANINE 001. SEE KEY NOTE #13 IN A3/E101 AND #3 IN A7/E101.
- 4 SEE DETAIL A7/E100.

**A1** POWER PLAN: MEZZANINE  
1/8" = 1'-0"



KEY NOTES:

- 1 WALL MOUNTED WIFI ACCESS ON WALL AT 14 FT. A.F.F.
- 2 POWER CONNECTION FOR OVERHEAD DOOR:
  - OVERHEAD DOOR IS FURNISHED AND INSTALLED BY G.C. WIRED BY E.C. PER MANUFACTURER INSTRUCTION.
  - E.C. SHALL LOCATE CONTROL SWITCH PER ARCHITECT INSTRUCTION.
- 3 SAFEAIR SYSTEM. SEE SHEET M300, M301.
- 4 RECEPTACLE AND COMMUNICATION OUTLET FOR WALL MOUNTED TV. SHOWN HEIGHT ARE APPROX. E.C. SHALL FIELD VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 EF-5: PROVIDE INTERLOCK WIRES TO SCBA AND DAMPER PER M.C. INSTRUCTION.
- 6 SECURED DOOR. SEE DETAIL A7/E202.
- 7 AT FAN COIL:
  - FAN COIL IS POWERED VIA HP-152. PROVIDE WIRING TO HP-152 PER M.C. INSTRUCTION.
  - FAN COIL IS WITH CONDENSATE PUMP. CONNECT CONDENSATE PUMP TO CKT# P1A-21 (RECEPTACLE CIRCUIT IN THIS ROOM). PROVIDE WITH DISCONNECT SWITCH.
- 8 RECEPTACLE AND CORD REEL AT ROOF DECK.
  - a. INPUT CABLE: 5 FT. #12/3 SJ CABLE WITH L5-20 RECEPTACLE.
  - b. OUTPUT CABLE: 45 FT. #12/3SJ CABLE WITH TAMPER RESISTANT DUPLEX RECEPTACLE IN PORTABLE BOX.
  - c. HUBBELL: 45123 OR EQUAL.
- 9 DISCONNECT FOR LARGE CEILING FAN.
  - FIELD VERIFY LOCATION TO BE ACCESSIBLE AND WITHIN SIGHT OF FAN PRIOR TO ROUGH-IN.
  - PROVIDE FINAL CONNECTION TO FAN CONTROLLER LOCATED AT FAN AS REQUIRED.
- 10 LARGE CEILING FAN:
  - HANG BOTTOM OF FAN 20 FT. A.F.F. SAME TYPE 'H' FIXTURES IN THIS AREA. FIELD VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.
  - PROVIDE LOW VOLTAGE CONTROL WIRE IN CONDUIT TO FAN CONTROLLER LOCATION AT MAIN FLOOR. SEE KEY NOTE #11 FOR FAN CONTROLLER LOCATION.
- 11 LARGE CEILING FAN LOW VOLTAGE CONTROL SWITCH. PROVIDE LOW VOLTAGE CONTROL WIRE IN CONDUIT TO FAN CONTROLLER.
- 12 LOCATE ALL RECEPTACLES INSIDE GENERATOR ENCLOSURE
- 13 2-2"C FROM ABOVE COMMUNICATION BOARD IN ELECTRICAL 111 TO MEZZANINE 001. SEE KEY NOTE #3 IN A1/E101 AND #3 IN A7/E101.
- 14 EF-6: PROVIDE INTERLOCK WIRES TO DAMPER PER M.C. INSTRUCTION.
- 15 EQUIPMENT DISCONNECTS, FURNISHED AND INSTALLED BY E.C.:
  - 15A SCBA: 100A, 240VAC, 3P NEMA1 FUSIBLE DISCONNECT WITH 100A FUSES.
  - 15B PPE DRYER: 60A, 240VAC, 2P NEMA 1 FUSIBLE DISCONNECT WITH 35A FUSES.
  - 15C EXTRACTOR: 30A, 240VAC, 2P NEMA 1 FUSIBLE DISCONNECT WITH 15A FUSES.

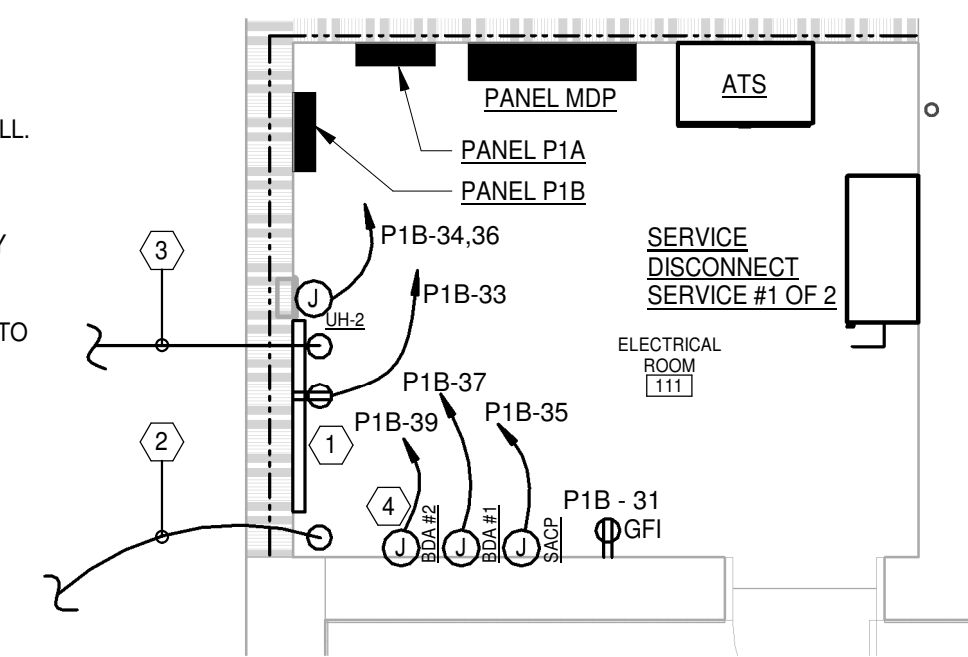
**A3** POWER PLAN  
1/8" = 1'-0"

NOTES:

1. ALL WIRING IN AREA WITH EXPOSED TO STRUCTURE SHALL BE IN CONDUIT. THESE AREAS ARE:
  - 102 GEAR STORAGE
  - 106 DECON ROOM
  - 108 APPARATUS BAYS
  - 109 TOOL/SCBA ROOM
  - 110 COOKING EQUIPMENT STORAGE
  - 111 ELECTRICAL ROOM
  - 112 FIRE PUMP ROOM
  - M001 MEZZANINE

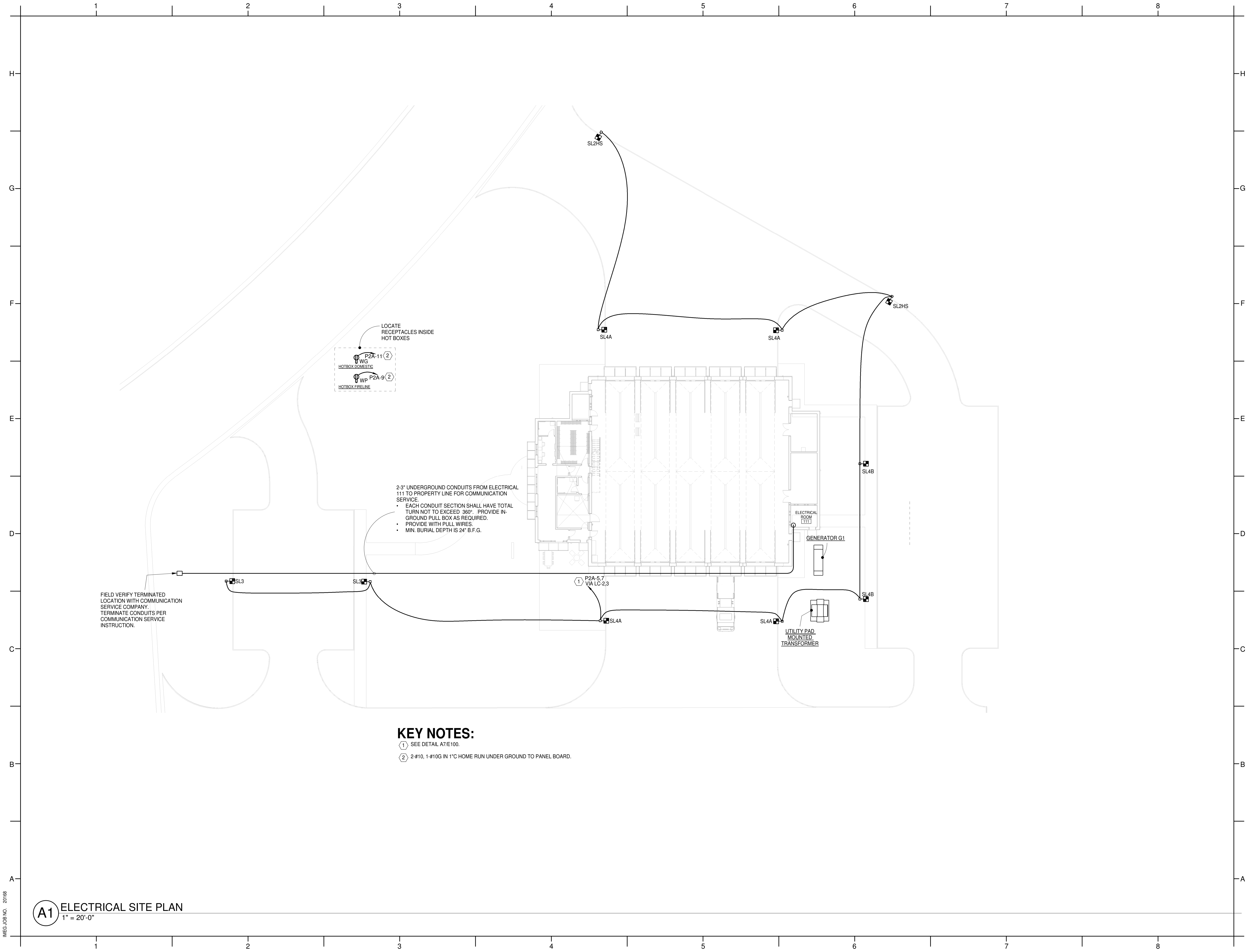
KEY NOTES:

- 1 COMMUNICATION BOARD:
  - PROVIDE 4x8 3/4" THICK FIRE PROOF PLYBOARD ON THIS WALL.
  - PROVIDE GROUND BAR AND 1-#6G CU IN 1/2"C TO SERVICE DISCONNECT.
- 2 2-3"C UNDERGROUND CONDUITS WITH PULL WIRE TO PROPERTY LINE. SEE DETAIL A1/E102 FOR APPROX. ROUTING.
- 3 2-2"C FROM ABOVE COMMUNICATION BOARD IN ELECTRICAL 111 TO MEZZANINE 001.
  - EACH CONDUIT SECTION SHALL HAVE TOTAL TURN NOT TO EXCEED 360°. PROVIDE PULL BOX AS REQUIRED.
  - PROVIDE WITH PULL WIRES.
  - SEE KEY NOTE #3 IN A1/E101 AND #13 IN A3/E101.
- 4 BDA SYSTEM. PROVIDE INSTALLATION IF REQUIRED. SEE A1/SA001.



**A7** POWER PLAN ELECTRICAL 111  
1/4" = 1'-0"





- KEY NOTES:**
- ① SEE DETAIL A7/E100.
  - ② 2-#10, 1-#10G IN 1" HOME RUN UNDER GROUND TO PANEL BOARD.

**A1 ELECTRICAL SITE PLAN**  
1" = 20'-0"

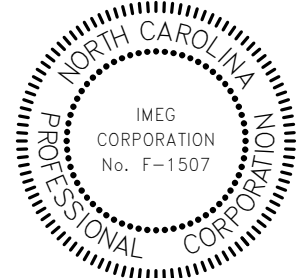
PROJECT INFORMATION

**ATLANTEC**  
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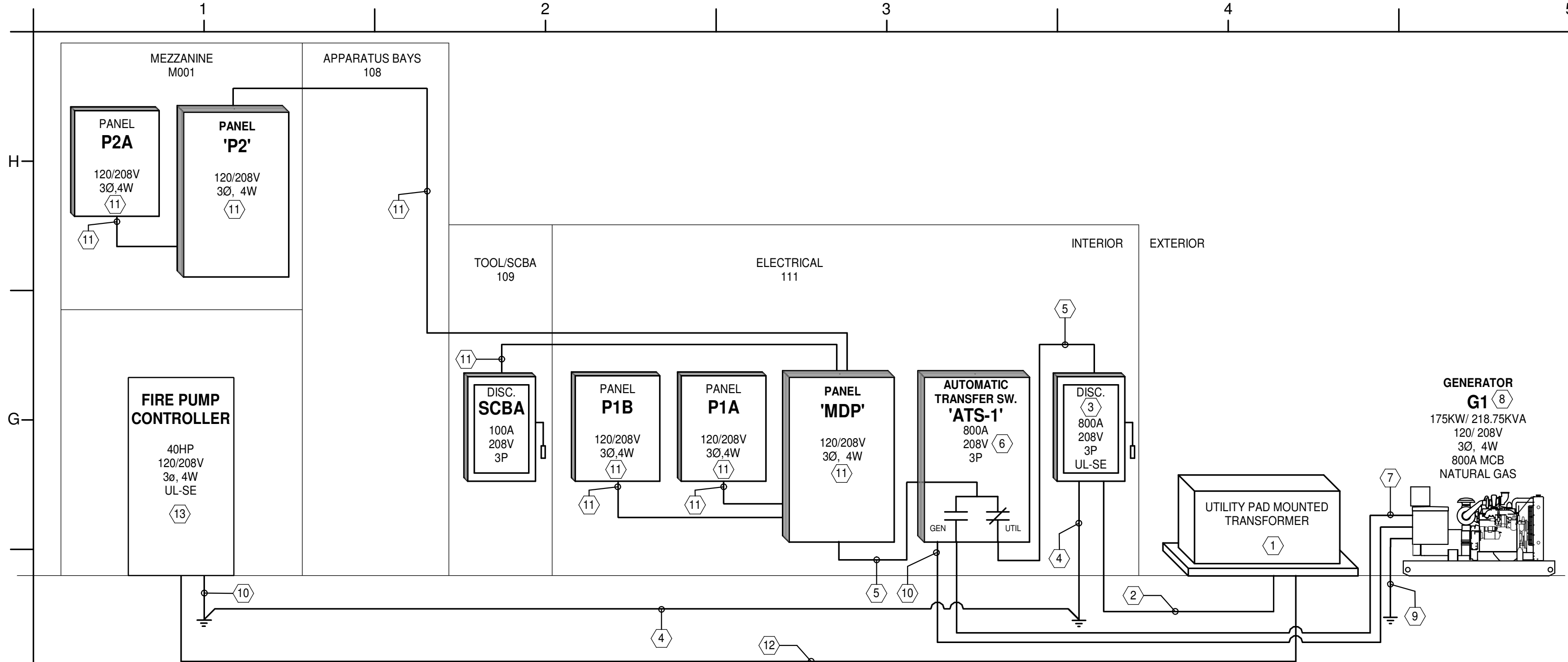
DATE ISSUED

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6/17/2025

**SHEET TITLE**  
ELECTRICAL SITE  
PLAN

**E102**





### KEY NOTES:

- UTILITY PAD MOUNTED TRANSFORMER WITH C.T. AND METER. PAD BY E.C. PER UTILITY SPEC. SEE DETAIL A1/E102 FOR APPROX. LOCATION. FIELD VERIFY EXACT LOCATION WITH UTILITY, CIVIL ENGINEER AND ARCHITECT.
- UNDERGROUND SERVICE FEEDER BY E.C. 3 SETS OF 4-#300 KCMIL, 1-#1/0G IN 3/2"C. FIELD VERIFY ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
- BUILDING SERVICE DISCONNECT.
  - 800A, 240VAC, 3P NEMA 1 FUSIBLE DISCONNECT.
  - PROVIDE 800A FUSES, MIN. AIC RATING OF 32KA. FUSE SHALL BE PEAK LET-THRU TYPE. PEAK LET-THRU CURRENT SHALL NOT EXCEED 22KA. WHERE THE AVAILABLE LINE SIDE FAULT CURRENT IS 32KA.
  - UL LISTED FOR USE AS SERVICE EQUIPMENT.
  - PROVIDE PLAQUE: SERVICE DISCONNECT SERVICE #1 OF 2 SERVICE #2 OF 2 IS IN FIRE PUMP ROOM
- GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
  - 1-#2/0G CU IN 3/4"C TO BUILDING STEEL, C.W. MAIN, GAS PIPE AND SPRINKLER MAIN.
  - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
  - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
  - TIE MAIN MAIN GROUNDING AT ELECTRICAL ROOM AND FIRE PUMP ROOM WITH 1-#2/0G CU IN 3/4"C.
- 3 SETS OF 4-#300 KCMIL, 1-#1/0G IN 3/2"
- AUTOMATIC TRANSFER SWITCH.
  - 800A, 3P, 208V, MIN. AIC RATING OF 22KA.
  - NEMA 1 ENCLOSURE.
  - SEISMIC RATED, ATTACH SECURELY TO WALL AND FLOOR.
- GENERATOR FEEDER.
  - 2 SETS OF 4-#500 KCMIL, 1-#1/0G IN 3 1/2"C
  - MIN. BURIAL DEPTH OF 24" B.F.G.
- OPTIONAL STANDBY NATURAL GAS GENERATOR
  - 175KW/215KVA, 120/208V 3Ø, 4W
  - 800A MAIN BREAKER (80% DUTY)
  - NEMA 3R LEVEL 1 SOUND ATTENUATED ENCLOSURE
  - PROVIDE CONCRETE PAD AS REQUIRED.
  - PROVIDE EMERGENCY SHUTDOWN SWITCH AT THE EXTERIOR OF ENCLOSURE. LABEL 'GENERATOR EMERGENCY SHUTDOWN'.
  - PROVIDE WITH REMOTE ANNUNCIATOR LOCATED INSIDE BUILDING. LOCATE REMOTE ANNUNCIATOR IN ENTRY 100. FIELD VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.
  - DO NOT BOND NEUTRAL TO GROUND BAR.
  - BOLT GENERATOR TO PAD.
- GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
  - 1-#2/0G CU BOND FROM GROUND BAR TO GENERATOR CHASSIS AND GAS PIPE.
  - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
  - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
- GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT BETWEEN GENERATOR AND ATS. MIN. BURIAL DEPTH OF 24" B.F.G.
- SEE PANEL SCHEDULE FOR DETAIL.
- UNDERGROUND SERVICE FEEDER BY E.C. 4-#20 IN 2"C. FIELD VERIFY ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
- 40 HP FIRE PUMP CONTROLLER.
  - UL LISTED FOR USE AS SERVICE EQUIPMENT.
  - FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.
  - PROVIDE PLAQUE: SERVICE DISCONNECT SERVICE #2 OF 2 SERVICE #1 OF 2 IS IN ELECTRICAL ROOM

### NOTES:

- FAULT CURRENTS:
  - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT AT TRANSFORMER FROM UTILITY AND PROVIDE INFORMATION TO ENGINEER TO CALCULATE AVAILABLE FAULT CURRENTS.
  - E.C. SHALL PROVIDE LABEL INDICATING FAULT CURRENTS ON ALL SERVICE DISCONNECTS AND PANEL BOARDS PER ENGINEER INSTRUCTION.

### D1 POWER RISER DIAGRAM

### EQUIPMENT LIST

ITEM NO.	DESCRIPTION	VOLT	PHASE	AMPS	CONNECTION	NOTES
23	STACKABLE WASHER/DRYER WASHER DRYER	120 208	1 1	12 24	REC REC	
24	VENDING MACHINE	120	1	5	REC	
25	SCBA	208	3	63	DISCONNECT	
29	EXTRACTOR	208	1	10	DISCONNECT	
30	PPE DRYER	208	1	28	DISCONNECT	
40	ICE MAKER	120	1	16	REC	
43	AIR COMPRESSOR	120	1	12	REC	

### EQUIPMENT NOTES:

- EQUIPMENT ITEM NUMBERS ARE PER ARCHITECTURAL PLAN SHEET I200.
- E.C. SHALL FIELD VERIFY ELECTRICAL REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING ELECTRICAL GEARS AND ROUGH-IN.
- NOTIFY ENGINEER IF THE ELECTRICAL REQUIREMENTS DO NOT MEET THE ASSIGNED CIRCUITS AND CONNECTIONS PER THIS PLAN.

FEEDER OR BRANCH CIRCUIT WIRE SIZE AND CONDUIT TABLE					
BREAKER AMPERE RATING	WIRE SIZE BASED UPON 75° RATING	GROUND WIRE	CONDUIT FOR 2W & G (L-N-G) (L-L-G)	CONDUIT FOR 3W & G (L-L-N-G) (L-L-L-G)	CONDUIT FOR 4W & G (L-L-L-N-G)
15	#12	#12	1/2"	1/2"	1/2"
20	#12	#12	1/2"	1/2"	1/2"
25	#10	#10	1/2"	1/2"	3/4"
30	#10	#10	1/2"	1/2"	3/4"
35	#8	#10	3/4"	3/4"	1"
40	#8	#10	3/4"	3/4"	1"
45	#8	#10	3/4"	3/4"	1"
50	#8	#10	3/4"	3/4"	1"
60	#6	#10	3/4"	1"	1"
70	#4	#8	1"	1-1/4"	1-1/4"
80	#4	#8	1"	1-1/4"	1-1/4"
90	#3	#8	1"	1-1/4"	1-1/4"
100	#3	#8	1"	1-1/4"	1-1/4"
110	#2	#6	1-1/4"	1-1/2"	1-1/2"
125	#1	#6	1-1/4"	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"	2"
175	#2/0	#6	1-1/2"	2"	2"
200	#3/0	#6	2"	2"	2"
225	#4/0	#4	2"	2-1/2"	2-1/2"
250	#250 kcmil	#4	2"	2-1/2"	3"
275	#300 kcmil	#4	2-1/2"	3"	3"
300	#350 kcmil	#4	2-1/2"	3"	3"
350	#500 kcmil	#3	3"	3-1/2"	3-1/2"
400	(2) #3/0	(2) #3	(2) 2"	(2) 2"	(2) 2-1/2"
450	(2) #4/0	(2) #2	(2) 2"	(2) 2-1/2"	(2) 2-1/2"
500	(2) #250 kcmil	(2) #2	(2) 2"	(2) 2-1/2"	(2) 3"
600	(2) #350 kcmil	(2) #1	(2) 2-1/2"	(2) 3"	(2) 3"
700	(2) #500 kcmil	(2) #1/0	(2) 3"	(2) 3-1/2"	(2) 3-1/2"
800	(3) #300 kcmil	(3) #1/0	(3) 3"	(3) 3"	(3) 3"
900	(3) #350 kcmil	(3) #2/0	(3) 3-1/2"	(3) 3"	(3) 3"
1000	(3) #400 kcmil	(3) #2/0	(3) 2-1/2"	(3) 3-1/2"	(3) 3-1/2"
1200	(4) #350 kcmil	(4) #3/0	(4) 2-1/2"	(4) 3"	(4) 3"

#### NOTES:

- BREAKER: SHOWN SIZES ARE BASED ON STANDARD AMPERE RATINGS SHOWN IN NEC TABLE 240.6(A).
- WIRE SIZES: SHOWN SIZES ARE FOR PHASE AND NEUTRAL WIRES. AMPACITY IS BASED ON THWN COPPER WIRES AT 75°C RATING AS SHOWN NEC TABLE 310.15(B)(16).
  - IF THERE ARE MORE THAN 1 SET OF FEEDER, (X) PREFIX INDICATES NUMBER OF FEEDER AND CONDUIT SETS.
- GROUND WIRE: SHOWN SIZES ARE COPPER WIRES IN ACCORDING TO NEC TABLE 250.122.
  - IF THERE ARE MORE THAN 1 SET OF FEEDER, (X) PREFIX INDICATES NUMBER OF FEEDER AND CONDUIT SETS.
- CONDUIT:
  - IF THERE ARE MORE THAN 1 SET OF FEEDER, (X) PREFIX INDICATES NUMBER OF FEEDER AND CONDUIT SETS.
  - CONDUIT SIZES ARE BASED ON THWN WIRES. FOR OTHER TYPE OF WIRES, IT IS E.C. RESPONSIBILITY TO ADJUST CONDUIT FILL IN COMPLIANCE WITH NEC.

### LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	2X4 LED FLAT PANEL RECESSED MOUNTING 4000/5000/6000 LUMEN	LITHONIA: CPX-2X4-AL08-SWW7-M2	4000/5000/6000 LUMEN LED 3500K/4000K/5000K 0-10V DIMMING ELECTRONIC DRIVER 28/35/50 WATTS - 32/39/56 VA 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
B	2X2 LED FLAT PANEL RECESSED MOUNTING 2300/3300/4000 LUMEN	LITHONIA: CPX-2X2-AL07-SWW7-M4	2300/3300/4000 LUMEN LED 3500K/4000K/5000K 0-10V DIMMING ELECTRONIC DRIVER 19/28/37 WATTS - 20/32/42 VA 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
D	6" LED CAN LIGHT FIXTURE WITH LENS RECESSED MOUNTING, WHITE TRIM 1400 LUMEN LISTED FOR WET LOCATION	JUNO LIGHING: TC22LED-G4-14LM-35K-90 CRI-MVOLT-ZT10-20WH	1400 LUMEN LED, 3500K ELECTRONIC DRIVER 16 WATTS - 19 VA, 120-277V	
H	LED HI-BAY LIGHT FIXTURE 18000 LUMEN 3500K	LITHONIA: IBG-18000LM-SEF-AFL-GND-MVOLT-GZ10-35K-80CRI -NLTAIR2-RMS0D45-DWH	18000 LUMEN LED, 3500K ELECTRONIC DRIVER 105 WATTS - 120 VA, 120-277V	HANG BOTTOM 20 FT. A.F.F. 18000 LUMEN
S	4 FT. LED STRIP LIGHT SURFACE/PENDANT MOUNTED 3000/4000/5000 LUMEN	LITHONIA: CSS-L48-AL03-MVOLT-SWW3-80CRI	3000/4000/5000 LUMEN LED, 3500K 3500K/4000K/5000K ELECTRONIC DRIVER 28/36/44 WATTS - 32/40/49 VA 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
S/M	4 FT. LED STRIP LIGHT SURFACE/PENDANT MOUNTED 3000/4000/5000 LUMEN WITH MOTIONS SENSOR	LITHONIA: CSS-L48-AL03-MVOLT-SWW3-80CRI-SFR7CSS	3000/4000/5000 LUMEN LED, 3500K 3500K/4000K/5000K ELECTRONIC DRIVER 28/36/44 WATTS - 32/40/49 VA 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
W	EXTERIOR WALL MOUNTED CUT-OFF 1500 LUMEN LISTED FOR WET LOCATION AND 0°F	LITHONIA: WFX1-LED-P1-40K-MVOLT-*	1500 LUMEN LED, 4000K ELECTRONIC DRIVER 11 WATTS - 15 VA, 120-277V	** FINISH PER ARCHITECT INSTRUCTION SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT.
W/EM	EXTERIOR WALL MOUNTED CUT-OFF 1500 LUMEN LISTED FOR WET LOCATION AND 0°F WITH EMERGENCY BATTERY BACKUP	LITHONIA: WFX1-LED-P1-40K-MVOLT-*.E14WC	1500 LUMEN LED, 4000K ELECTRONIC DRIVER 11 WATTS - 15 VA, 120-277V	** FINISH PER ARCHITECT INSTRUCTION SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT.
W2	EXTERIOR WALL MOUNTED CUT-OFF 2900 LUMEN LISTED FOR WET LOCATION AND 0°F	LITHONIA: WFX1-LED-P2-40K-MVOLT-*	2900 LUMEN LED, 4000K ELECTRONIC DRIVER 24 WATTS - 27 VA, 120-277V	** FINISH PER ARCHITECT INSTRUCTION SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT.
SL2HS	POLE LIGHT WITH 1 LUMINAIRE AT 25 FT., 8900 LUMEN, TYPE 2 MEDIUM DISTRIBUTION 25 FT. SQUARE STEEL POLE, HOUSE SIDE SHIELD LISTED FOR WET LOCATION AND 0°F	LITHONIA: LUMINAIRE: DSX1-LED-P2-40K-T2M-MVOLT-SPA-HS-DDXBD POLE: SSS-25-4G-DM19AS-DDBXD	8900 LUMEN LED, 4000K ELECTRONIC DRIVER 70 WATTS - 78 VA, 120-277V	POLE WITH LUMINAIRE SHALL BE RATED FOR 100 MPH. SEE A5/E202 FOR POLE BASE DETAIL.
SL3	POLE LIGHT WITH 1 LUMINAIRE AT 25 FT., 8900 LUMEN, TYPE 3 MEDIUM DISTRIBUTION 25 FT. SQUARE STEEL POLE, LISTED FOR WET LOCATION AND 0°F	LITHONIA: LUMINAIRE: DSX1-LED-P2-40K-T3M-MVOLT-SPA-DDXBD POLE: SSS-25-4G-DM19AS-DDBXD	8900 LUMEN LED, 4000K ELECTRONIC DRIVER 70 WATTS - 78 VA, 120-277V	POLE WITH LUMINAIRE SHALL BE RATED FOR 100 MPH. SEE A5/E202 FOR POLE BASE DETAIL.
SL4A	POLE LIGHT WITH 1 LUMINAIRE AT 25 FT., 12000 LUMEN, TYPE 4 MEDIUM DISTRIBUTION 25 FT. SQUARE STEEL POLE, LISTED FOR WET LOCATION AND 0°F	LITHONIA: LUMINAIRE: DSX1-LED-P3-40K-T4M-MVOLT-SPA-DDXBD POLE: SSS-25-4G-DM19AS-DDBXD	12000 LUMEN LED, 4000K ELECTRONIC DRIVER 102 WATTS - 113 VA, 120-277V	POLE WITH LUMINAIRE SHALL BE RATED FOR 100 MPH. SEE A5/E202 FOR POLE BASE DETAIL.
SL4B	POLE LIGHT WITH 1 LUMINAIRE AT 25 FT., 15000 LUMEN, FORWARD THROW MEDIUM DISTRIBUTION 25 FT. SQUARE STEEL POLE, LISTED FOR WET LOCATION AND 0°F	LITHONIA: LUMINAIRE: DSX1-LED-P5-40K-TFTM-MVOLT-SPA-DDXBD POLE: SSS-25-4G-DM19AS-DDBXD	15000 LUMEN LED, 4000K ELECTRONIC DRIVER 138 WATTS - 154 VA, 120-277V	POLE WITH LUMINAIRE SHALL BE RATED FOR 100 MPH. SEE A5/E202 FOR POLE BASE DETAIL.
EG	EMERGENCY LIGHT	LITHONIA: EU2L-M12	(2) 0.75W LED HEADS 0.33 WATTS - 6 VA, 120/277V	
EG2	EMERGENCY LIGHT 1100 LUMEN SELF DIAGNOSTIC	LITHONIA: ELM6L-UVOLT-LTP-SDRT	(2) 5.3W LED HEADS 3 WATTS - 6 VA, 120/277V	
EGX	EMERGENCY WITH EXIT LIGHT 1 SIDE RED LETTER	LITHONIA: ECC-R	(2) 0.75W LED HEADS, LED FOR PANEL 1 WATTS - 11 VA, 120/277V	

### NOTES:

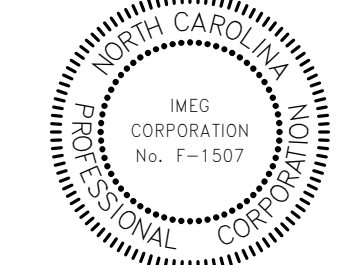
- SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
- E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
- LED COLOR:
  - INTERIOR: 3500K UNLESS OTHERWISE NOTED.
  - EXTERIOR: 4000K UNLESS OTHERWISE NOTED.
  - FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

#### PROJECT INFORMATION

#### PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

#### SEALS



#### DKA JOB NUMBER

2015

#### REVISIONS

NO.	DESCRIPTION

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Drawn By: \_\_\_\_\_ Author  
Plot Date: 6/16/2025 6:18:38 PM

#### DATE ISSUED

BID SET

6/17/2025

#### SHEET TITLE

POWER RISER  
FIXTURE SCHEDULE  
EQUIPMENT LIST

**E200**



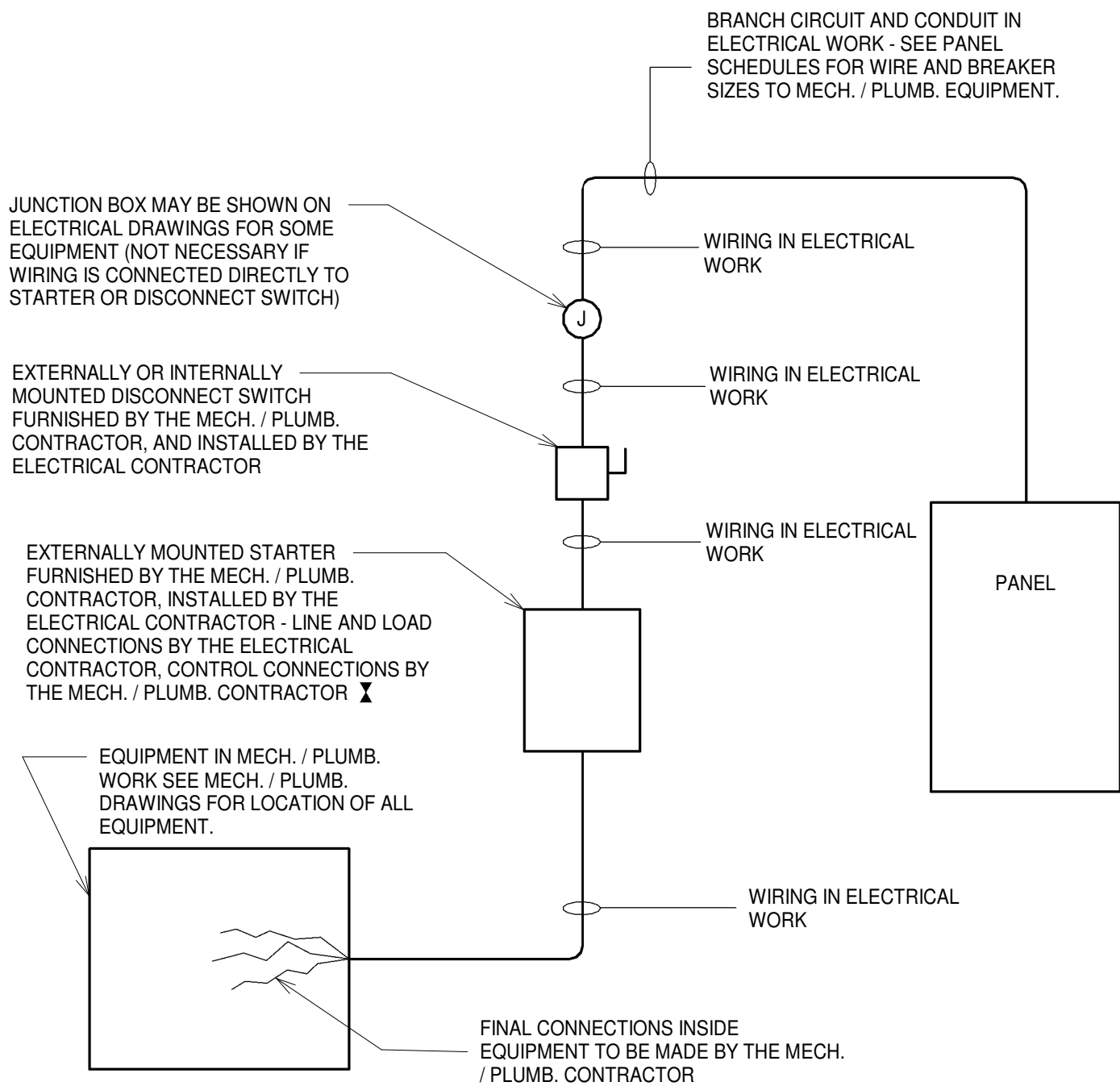
PANEL MDP										120/208V, 3Ø, 4W											
CKT	CIRCUIT DESCRIPTION				TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION				CKT		
1	PANEL P1A				100	3	12.0	7.6					3	100	SCBA 3W+G				2		
3	4W+G								10.7	7.6											4
5											10.6	7.6									6
7	PANEL P1B				100	3	11.2	--	9.4	--			1	--	SPACE				8		
9	4W+G												1	--	SPACE				10		
11											8.1	--	1	--	SPACE				12		
13	PANEL P2				500	3	21.3	--					1	--	SPACE				14		
15	4W+G								20.3	--			1	--	SPACE				16		
17												19.5	--	1	--	SPACE				18	
19	SPACE				--	1	--	--					1	--	SPACE				20		
21	SPACE				--	1	--	--	--	--			1	--	SPACE				22		
23	SPACE				--	1	--	--	--	--			1	--	SPACE				24		
25					60	3	0.0	--					1	--	SPACE				26		
27	SURGE PROTECTOR								0.0	--			1	--	SPACE				28		
29											0.0	--	1	--	SPACE				30		
TOTAL LOAD:							52.1 kVA		47.9 kVA		45.7 kVA										
TOTAL AMPS:							437 A		402 A		381 A										
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	DEMAND	TOTAL LOAD				PANEL INFORMATION												
MOTOR/COOLING EQUIPMENT		54407 VA	110.97%	60376 VA	CONNECTED LOAD:		146 kVA		LOCATION: ELECTRICAL ROO...		BUS SIZE: 800 A		SUPPLY FROM: MLO								
HEATING		19403 VA	100.00%	19403 VA	DEMAND LOAD:		142 kVA		MOUNTING: Surface		MAIN TYPE: MLO		AIC RATING: 22kA								
LIGHTING		6314 VA	125.00%	7892 VA	DEMAND		395 A		FEED-THRU: ENCLOSURE 1		ISOLATED GND:										
RECEPTACLE		9540 VA	100.00%	9540 VA																	
WATER HEATER		984 VA	100.00%	984 VA																	
CONTINUOUS LOAD		720 VA	125.00%	900 VA																	
NOTES:																					
1. SQUARE D: I-LINE OR EQUAL																					

PANEL P1A										120/208V, 3Ø, 4W											
CKT	CIRCUIT DESCRIPTION					TRIP	POLE	A			B	C	POLE	TRIP	CIRCUIT DESCRIPTION					CKT	
1	LIGHTS 108					20	1	1.4	1.1				2	20	EF-1					2	
3	LIGHTS 108					20	1			1.4	1.1									4	
5	EMERGENCY LIGHTS 108					20	1					0.2	1.1							6	
7	LIGHTS 109, 110, 111					20	1	0.4	1.1					2	20	EF-2					8
9	GEN. JACKET HEATER					15	2			1.2	0.7			2	15	ACD-6					10
11												1.2	0.7								12
13	GEN. BATT. CHARGER					20	1	1.2	0.7					2	15	ACD-4					14
15	GEN. RECEPTACLE					20	1			0.2	0.7										16
17	SPACE					--	1					--	0.7								18
19	WH-2 109					25	1	0.9	0.7					2	15	ACD-2					20
21	REC 109					20	1			0.5	0.7										22
23	AIR COMPRESSOR 109					20	1					1.4	0.7								24
25	ICE 109					20	1	1.4	0.7					2	15	ACD-5					26
27	HP-109					25	2			1.2	0.7			2	15	ACD-3					28
29												1.2	0.7								30
31	LARGE CEILING FAN 108					15	3	0.5	0.7					1	15	TH-4					32
33										0.5	0.6			1	15	TH-3					34
35												0.5	0.6	1	15	TH-3					36
37	LARGE CEILING FAN 108					15	3	0.5	0.6					1	15	TH-2					38
39										0.5	0.6			1	15	TH-1					40
41												0.5	0.9	1	15	EF-5					42
TOTAL LOAD:							12.0 kVA		10.7 kVA		10.6 kVA										
TOTAL AMPS:							101 A		89 A		88 A										
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	DEMAND	TOTAL LOAD				PANEL INFORMATION												
MOTOR/COOLING EQUIPMENT		10698 VA	107.64%	11515 VA	CONNECTED LOAD:		33 kVA			LOCATION:		ELECTRICAL ROO...		BUS SIZE:		100 A					
HEATING		15458 VA	80.00%	12366 VA	DEMAND LOAD:		32 kVA			SUPPLY FROM:		MDP		MAIN TYPE:		Main Lug Only					
LIGHTING		2400 VA	100.00%	2400 VA						MOUNTING:		Surface		AIC RATING:		22kA					
RECEPTACLE		3464 VA	125.00%	4330 VA						ENCLOSURE		1									
WATER HEATER		720 VA	100.00%	720 VA	DEMAND		88 A			FEED-THRU:											
		864 VA	100.00%	864 VA						ISOLATED GND:											
NOTES:																					
1. SQUARE D: NQ OR EQUAL.																					

PANEL P1B										120/208V, 3Ø, 4W									
CKT	CIRCUIT DESCRIPTION				TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION				CKT
1	OVERHEAD DOOR FRONT				15	2	0.9	0.9					2	15	OVERHEAD DOOR REAR				2
3									0.9	0.9									4
5	OVERHEAD DOOR FRONT				15	2	0.9	0.9			0.9	0.9	2	15	OVERHEAD DOOR REAR				6
7																			8
9	OVERHEAD DOOR FRONT				15	2			0.9	0.9			2	15	OVERHEAD DOOR REAR				10
11											0.9	0.9							12
13	OVERHEAD DOOR FRONT				15	2	0.9	0.9					2	15	OVERHEAD DOOR REAR				14
15									0.9	0.9									16
17	OVERHEAD DOOR FRONT				15	2					0.9	0.9	2	15	OVERHEAD DOOR REAR				18
19							0.9	0.9											20
21	CORD REEL FRONT 108				20	1			0.2	0.2			1	20	CORD REEL REAR 108				22
23	CORD REEL FRONT 108				20	1					0.2	0.2	1	20	CORD REEL REAR 108				24
25	CORD REEL FRONT 108				20	1	0.2	0.2					1	20	CORD REEL REAR 108				26
27	CORD REEL FRONT 108				20	1			0.2	0.2			1	20	CORD REEL REAR 108				28
29	CORD REEL FRONT 108				20	1					0.2	0.2	1	20	CORD REEL REAR 108				30
31	REC 110, 111, EXTERIOR				20	1	0.5	0.9					1	20	REC 108				32
33	REC 111 (COMMUNICATION)				20	1			0.2	1.5			2	20	UH-2 111				34
35	SACP 111				20	1					0.4	1.5							36
37	BDA #1 111				20	1	0.6	1.5					2	20	UH-1 110				38
39	BDA #2 111				20	1			0.0	1.5									40
41					--	1					--	--	1	--	SPACE				42
					TOTAL LOAD:			11.2 kVA		9.4 kVA		8.1 kVA							
					TOTAL AMPS:			95 A		80 A		67 A							
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND	TOTAL LOAD				PANEL INFORMATION											
EQUIPMENT	19264 VA	80.00%	15411 VA	CONNECTED LOAD:	29 kVA				LOCATION:	ELECTRICAL ROOM... BUS SIZE: 100 A									
HEATING	5999 VA	100.00%	5999 VA						SUPPLY FROM:	MDP MAIN TYPE: Main Lug Only									
RECEPTACLE	3420 VA	100.00%	3420 VA	DEMAND LOAD:	25 kVA				MOUNTING:	Surface AIC RATING: 22kA									
								ENCLOSURE	1										
								FEED-THRU:											
								ISOLATED GND:											
NOTES:																			
1. SQUARE D: NQ OR EQUAL.																			



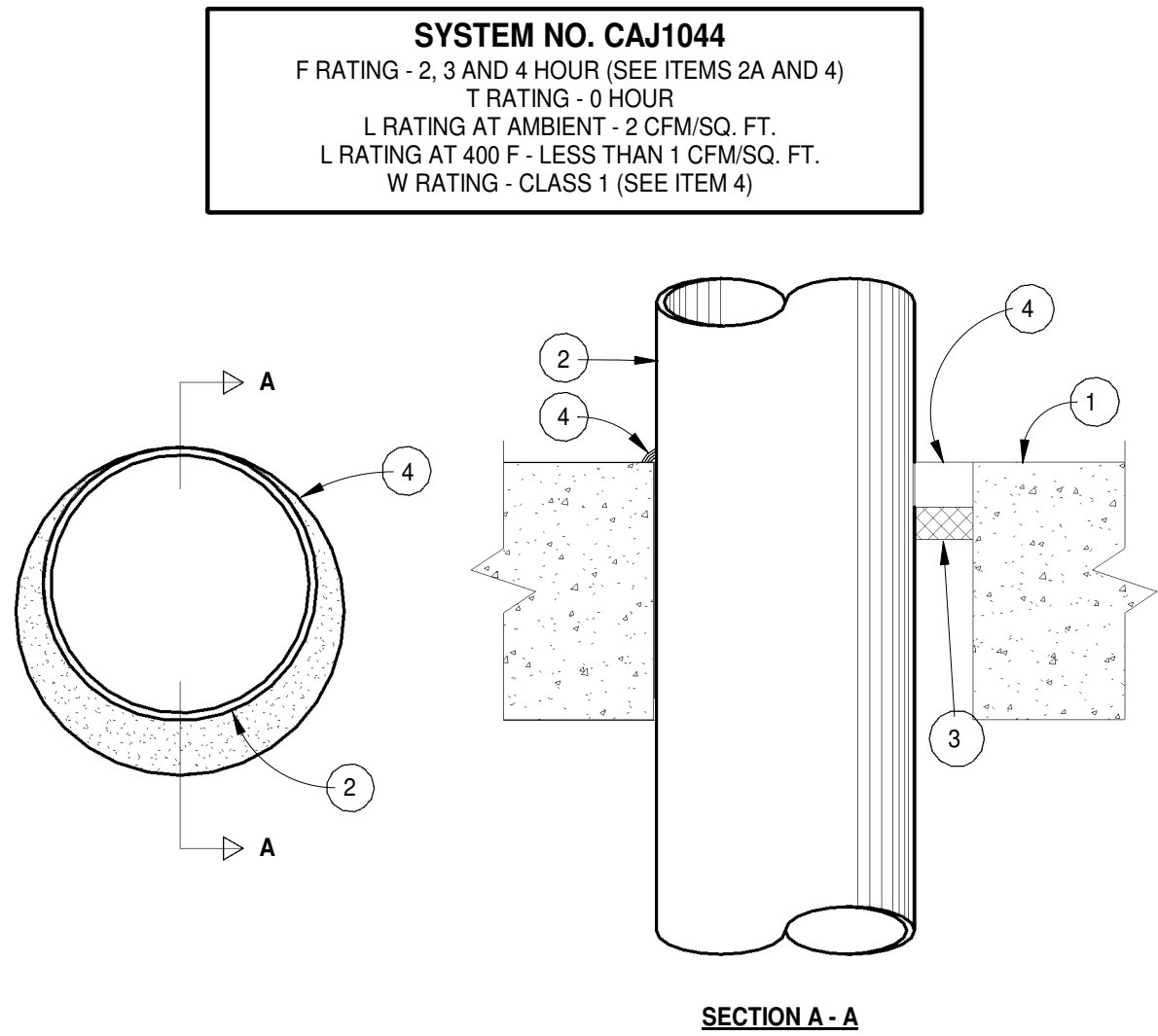
MEG JOB NO. 20168



NOTES:

1. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND A STARTER.
2. E.C. SHALL FURNISH ALL REQUIRED FUSES.

A1 WIRING TO MECH./PLUMB. EQUIPMENT  
NTS



- 1 FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KGM3) CONCRETE. EXCEPT UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MINIMUM 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS\*. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF LOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAXIMUM DIAMETER OF OPENING IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR IS 32" MAXIMUM DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7".

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

- 1A STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 16 IN. (406 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 2" ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAXIMUM 16" ID (OR SMALLER) MINIMUM 0.028" WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 1/2" BEYOND THER SURFACE OF FLOOR OR WALL.

- 2 THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- A. STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
B. IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.  
C. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.  
D. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.  
E. COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.  
F. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

- 3 PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY- PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

- 3A FORMING MATERIAL\* - AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 3, NOMINAL 4" WIDE STRIPS OF MINIMUM 1/2" THICK COMPRESSIBLE MAT TO BE STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MINIMUM 4" DEPTH. AS AN OPTION, THE STRIPS OF MINIMUM 1/2" THICK COMPRESSIBLE MAT MAY BE FOLDED IN HALF, LENGTHWISE, AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MINIMUM 2" DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.

3M COMPANY - FIRE BARRIER PACKING MATERIAL

- 4 FILL, VOID OR CAVITY MATERIAL\* - CAULK, SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MINIMUM 1/4" DIAMETER BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

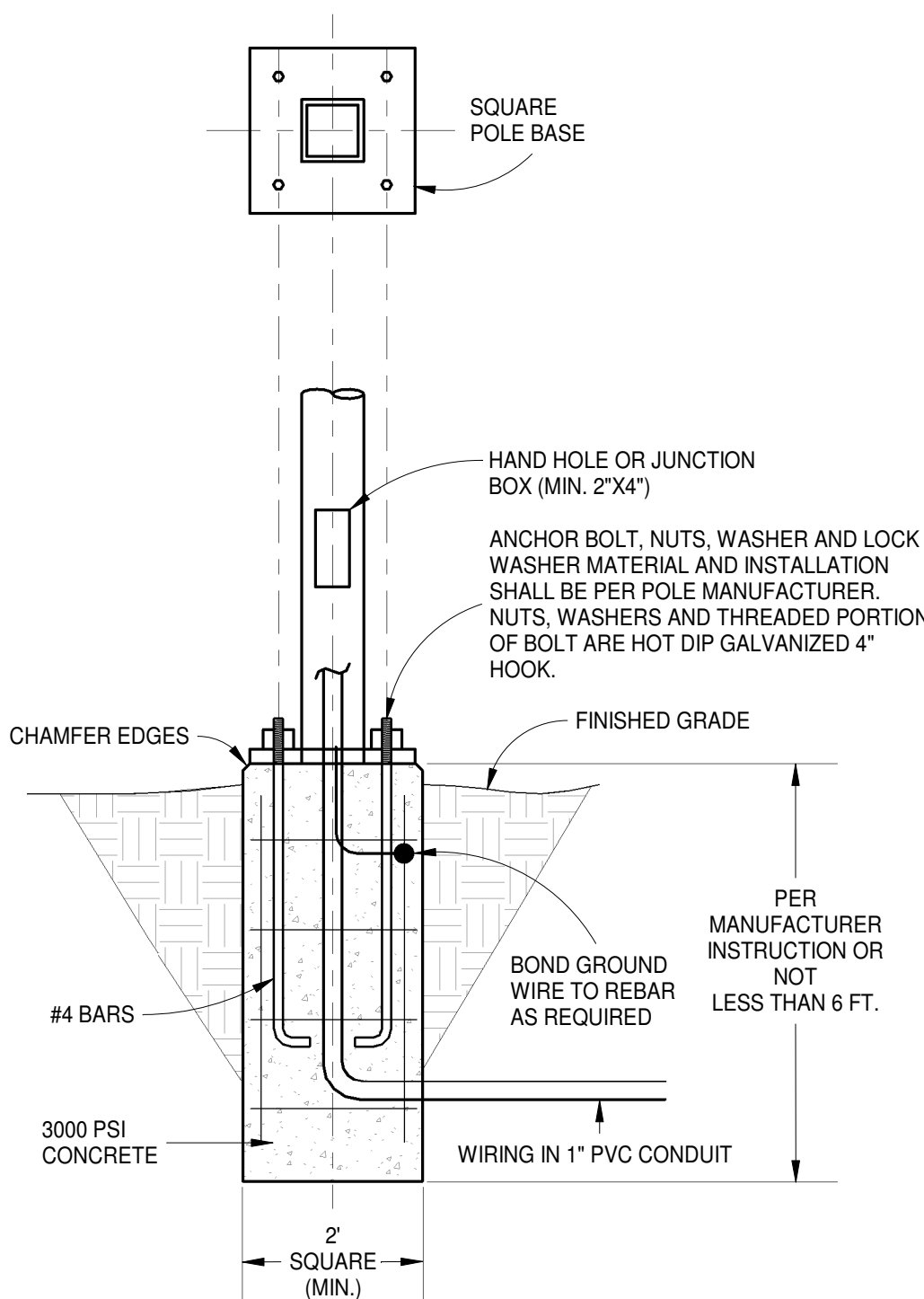
MINIMUM FLOOR OR WALL THICKNESS INCHES	NOMINAL PIPE TUBE OR CONDUIT DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CAULK THICKNESS INCHES	F RATING
2 1/2 - 12	1/2 - 12	1 3/8	1/2	2
2 1/2	1/2 - 12	3 1/4	1	2
4 1/2	1/2 - 6	1 3/8	1/4(a)	2
4 1/2	1/2 - 12	1 1/4	1/2	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 12	3 1/4	1	3
4 1/2	22 - 30	2	2	3
5 1/2	1/2 - 6	1 3/8	1 (b)	4

- a. MINIMUM 2" THICKNESS OF MINERAL WOOL BATT INSULATION OR FORMING MATERIAL (ITEM 3A) REQUIRED IN ANNULAR SPACE.  
b. MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MINIMUM 1" THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

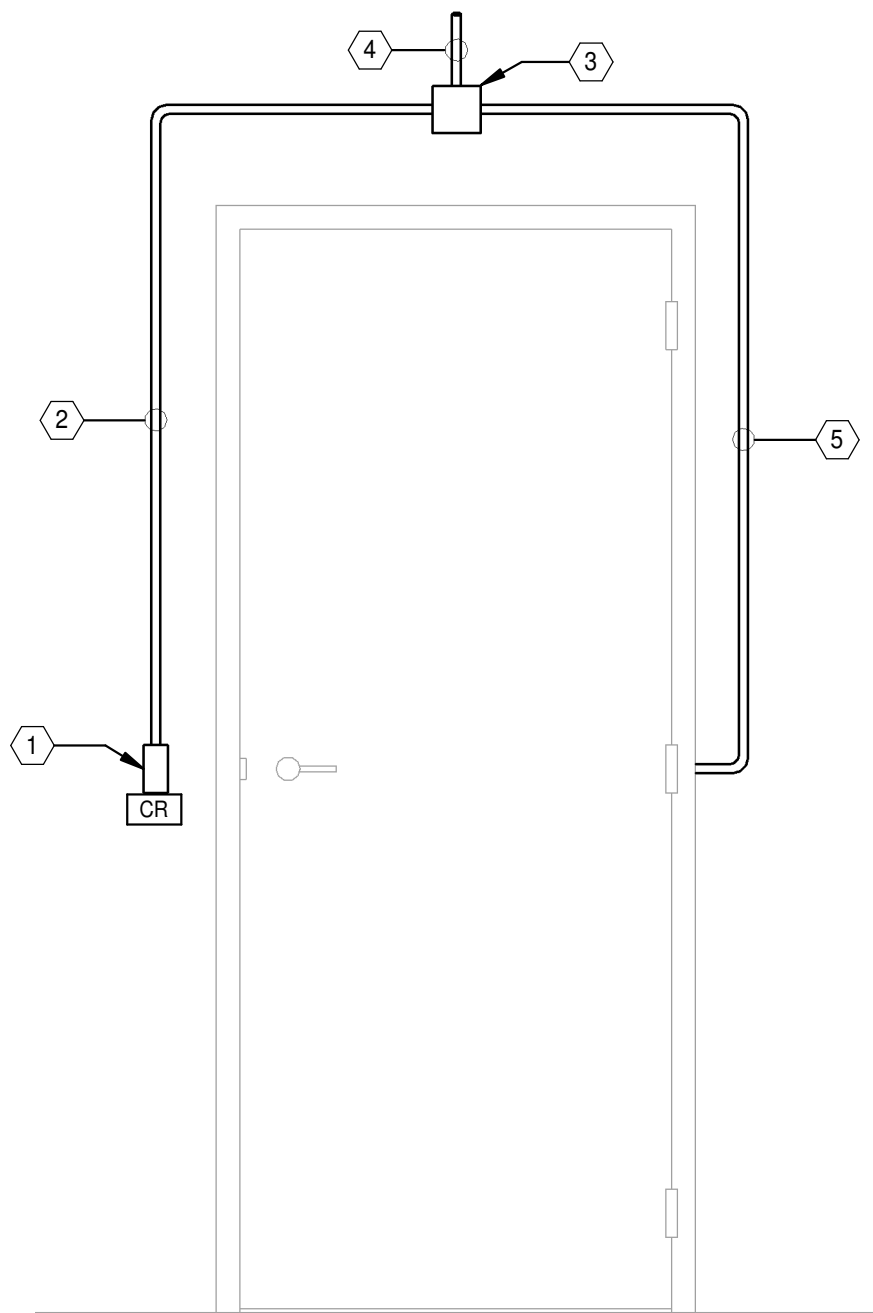
3M COMPANY - CP 25WB+ OR FB-3000 WT. (NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)

\*BEARING THE UL CLASSIFICATION MARKING

A3 FIRE PENETRATION (TYPICAL)  
NTS



A5 LIGHT POLE BASE DETAIL  
NTS



KEY NOTES:

- 1 SINGLE GANG BOX BY E.C. FOR CARD READER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.
- 2 3/4" CONDUIT BY E.C. FROM CARD READER SINGLE GANG BOX TO 4"X4" JUNCTION BOX ABOVE DOOR FRAME. PROVIDE WITH PULL WIRE.
- 3 4"X4" JUNCTION BOX BY E.C. ABOVE DOOR FRAME.
- 4 3/4" CONDUIT BY E.C. FROM 4"X4" JUNCTION BOX ABOVE DOOR FRAME TO COMMUNICATION BOARD IN MEZZANINE M001. PROVIDE WITH PULL WIRE.
- 5 3/4" CONDUIT BY E.C. FROM DOOR FRAME, TO 4"X4" JUNCTION BOX ABOVE DOOR FREAM. PROVIDE WITH PULL WIRES.

NOTES:

1. ABOVE DIAGRAM IS FOR BID PURPOSE. FIELD COORDINATE WITH ARCHITECT AND OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

A7 SECURED DOOR ROUGH-IN DETAIL  
NTS

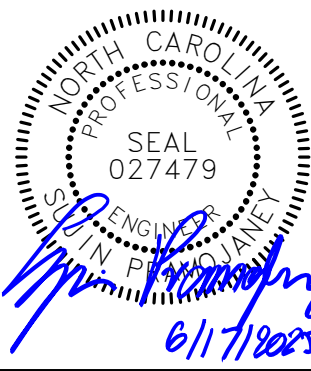
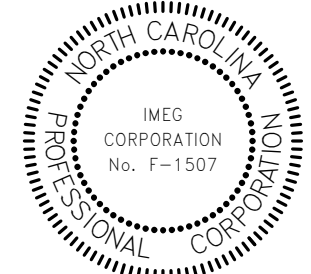
PROJECT INFORMATION

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PROJECT INFORMATION

**TOWN OF FARMVILLE  
FIRE STATION &  
HEADQUARTERS**  
6101 MAY BOULEVARD,  
FARMVILLE, NC 27828

SEALS



DKA JOB NUMBER

2015

REVISIONS

NO.	DESCRIPTION

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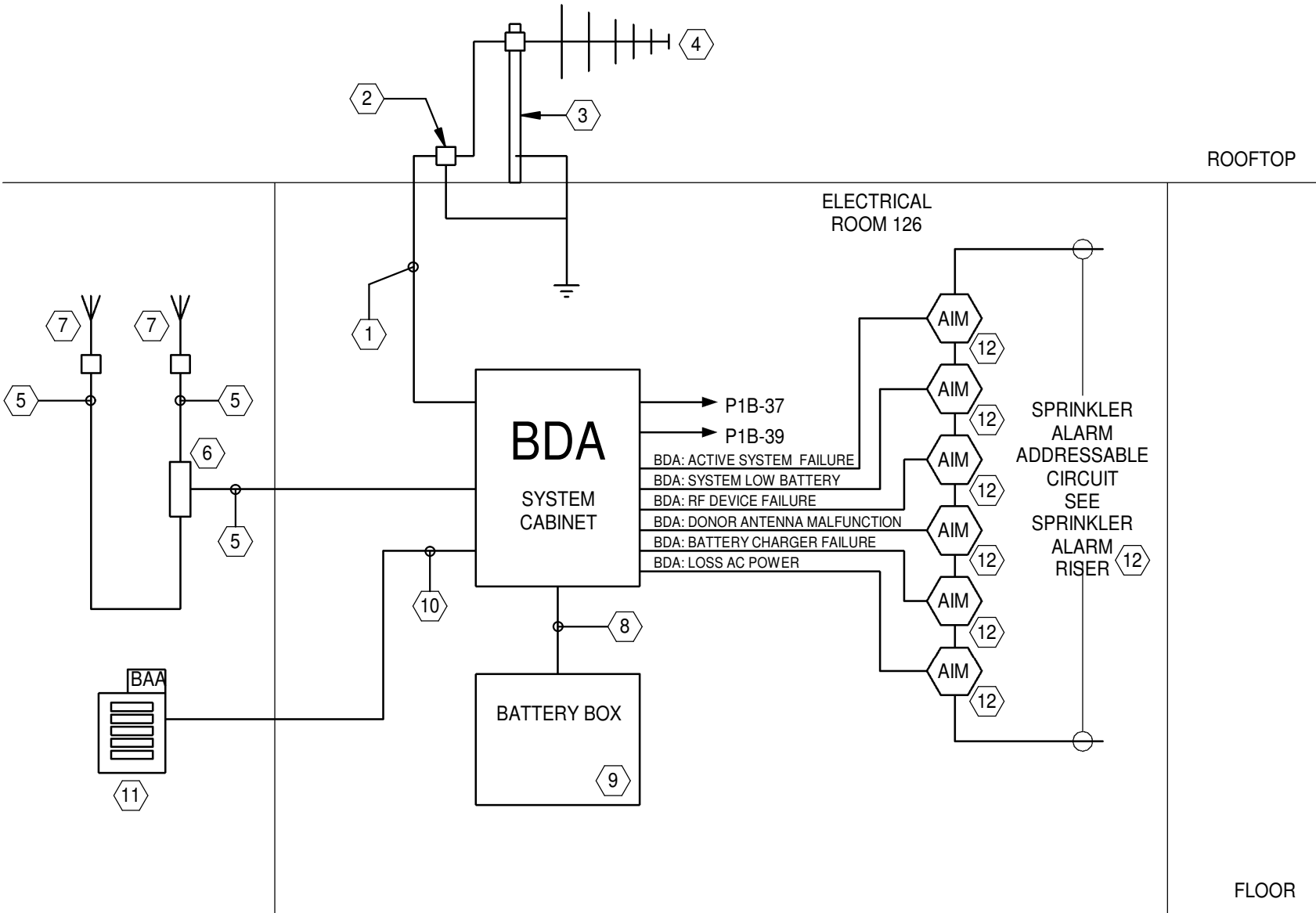
DETAILS

**E202**



SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
	SPRINKLER ALARM PULL STATION. MOUNT 42" A.F.F. ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
	SPRINKLER ALARM STROBE/HORN. MOUNT 80" A.F.F. 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING. 'WP' INDICATES WEATHERPROOF TYPE	FIRELITE, EST, SIEMENS, SIMPLEX
	RELAY CONTROL MODULE ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
	MONITOR MODULE ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
	SPRINKLER ALARM CONTROL PANEL, SURFACE MOUNTED. ADDRESSABLE WITH DACT	FIRELITE, EST, SIEMENS, SIMPLEX
	SPRINKLER ALARM REMOTE ANNUNCIATOR, FLUSH MOUNTED. ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
	SPRINKLER ALARM CELLULAR COMMUNICATOR WITH BATTERY BACKUP 2 PATH COMMUNICATIONS: CELLULAR AND IP (INTERNET) SURFACE MOUNTED.	HONEYWELL: HWF2-**-COM OR EQUAL SURFACE MOUNTED.
	BI-DIRECTIONAL ANTENNA SYSTEM SURFACE MOUNTED. PROVIDE INSTALLATION IF REQUIRED. SEE DETAIL A1/SA001 FOR INFORMATION.	HONEYWELL OR EQUAL
	BI-DIRECTIONAL ANTENNA SYSTEM REMOTE ANUNCIATOR SURFACE MOUNTED. PROVIDE INSTALLATION IF REQUIRED. SEE DETAIL A1/SA001 FOR INFORMATION.	HONEYWELL OR EQUAL
	FIRE SPRINKLER WATER FLOW SWITCH.	BY SPRINKLER CONTRACTOR.
	FIRE SPRINKLER VALVE SUPERVISORY SWITCH (TAMPER SWITCH).	BY SPRINKLER CONTRACTOR.
	LOW TEMP SENSOR. TEMP SETTING 40°F. NORMALLY OPEN ROOM TEMPERATURE.	POTTER: RTS-0 OR EQUAL
	2 HOUR WALL. SEE ARCHITECTURAL PLAN FOR DETAIL.	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
B.F.G.	BELOW FINISHED GRADE	

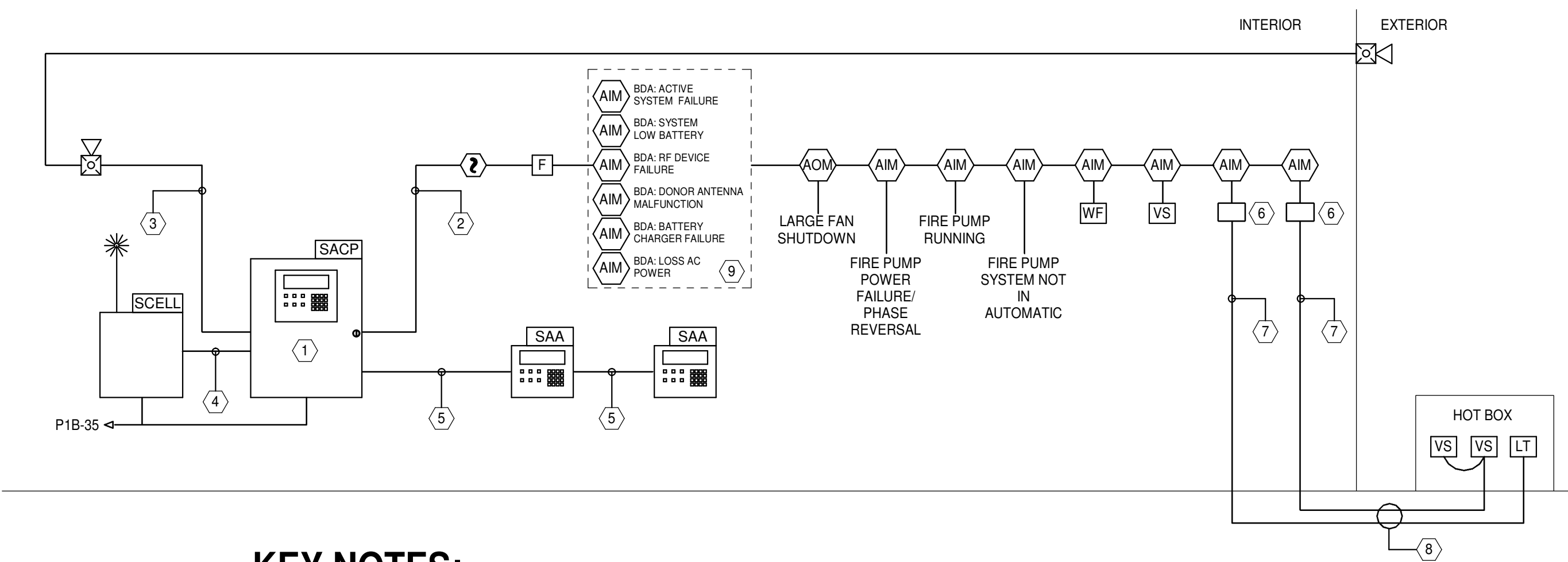


NOTES

- CONTRACTOR SHALL PROVIDE PRICES FOR BI-DIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS:
  - SYSTEM REQUIREMENT EVALUATION:**
    - PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE ) AT THE PROPERTY (RAW SURVEY)
    - A REGISTERED DESIGN PROFESSIONAL SHALL REVIEW THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH OUTSIDE (ER-RSS OUTSIDE) SURVEY AND BUILDING CONSTRUCTION PLANS TO DETERMINE THAT THE MINIMUM EMERGENCY RESPONDER RADIO SIGNAL STRENGTH INSIDE (ER-RSS INSIDE) WILL LIKELY BE AVAILABLE IN THE PROPOSED BUILDING.
    - WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A BDA OR RCS SYSTEM WILL NOT BE REQUIRED, SUBMIT EVALUATION TO THE TOWN OF FARMVILLE FIRE MARSHAL OFFICE FOR APPROVAL. DO NOT INSTALL THE BDA SYSTEM PER PLAN
    - WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A BDA OR RCS SYSTEM WILL BE REQUIRED, SEE SYSTEM INSTALLATION.
  - SYSTEM INSTALLATION:**
    - FURNISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE TOWN OF FARMVILLE FIRE MARSHAL OFFICE FOR APPROVAL.
    - PROVIDE INSTALLATION PLAN.
    - PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ENGINEER AND THE TOWN OF FARMVILLE FIRE MARSHAL OFFICE.
- SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER INSTRUCTION.
- INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2013 NFPA 72 AND 2019 NFPA 1221.

KEY NOTES

- DONOR ANTENNAS CABLE IN CONDUIT.
- PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
- DONOR ANTENNA MAST. TO BE BONDED TO BUILDING STEEL.
- DONOR ANTENNA.
- DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE IN CONDUIT.
- PROVIDE SIGNAL SPLITTER AS REQUIRED.
- PROVIDE DAS ANTENNA(S) AS REQUIRED FOR COVERAGE. FILED VERIFY LOCATION AND INSTALLATION OUTSIDE ELECTRICAL ROOM 126 WITH ARCHITECT PRIOR TO ROUGH-IN.
- BATTERY CABLE IN CONDUIT.
- BATTERY BOX: 24VDC
- REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
- REMOTE ANNUNCIATOR. LOCATE ADJACENT TO SACP REMOTE ANNUNCIATOR IN ENTRY 100.
- SPRINKLER ALARM DEVICE AND WIRING. SEE SPRINKLER ALARM RISER DIAGRAM.



KEY NOTES:

- ADDRESSABLE SACP.
- ADDRESSABLE CIRCUIT.
- NOTIFICATION APPLIANCE CIRCUIT AS REQUIRED.
- COMMUNICATION WIRES IN CONDUIT.
- ANNUNCIATOR CIRCUIT IN CONDUIT.
- PROVIDE SURGE PROTECTION DEVICE AS REQUIRED.
- INITIATING CIRCUIT.
- WIRING IN 1" UNDERGROUND CONDUIT. MIN. DEPTH OF 24" B.F.G.
- MONITOR MODULES FOR BDA SYSTEM. PROVIDE INSTALLATION IF REQUIRED. SEE DETAIL A1/SA001

SPRINKLER ALARM NOTES

- SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.1.1 AND 907.1.2 TO TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY TOWN OF FARMVILLE FIRE MARSHAL'S OFFICE.
- PLACARD THE ENTIRE SPRINKLER ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE SPRINKLER ALARM CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH SPRINKLER ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW SPRINKLER ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR SPRINKLER ALARM SYSTEM TO ENGINEER FOR APPROVAL.
- ALL WIRING SHALL BE SUPERVISED.
- ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET:
  - WIRING SHALL BE PLENUM RATED WHERE APPLICABLE.
  - PROVIDE BRIDLE RINGS FOR INDEPENDENT FIRE ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
- ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
  - WIRING SHALL BE 'CLASS B'
  - MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
  - MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
  - MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
- NOTIFICATION CIRCUIT REQUIREMENTS:
  - WIRING SHALL BE 'CLASS B'
  - PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72.
  - FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
- DIGITAL ALARM COMMUNICATOR:
  - FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT).
  - WHERE SINGLE COMMUNICATION PATH WITH CELLULAR NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.1.5.
  - FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
- FOR SPRINKLER SYSTEM:
  - FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR PIV VALVE.
  - PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.
- UPON SPRINKLER WATER FLOW, SACP SHALL SHUTDOWN LARGE CEILING FAN.
- IF BDA SYSTEM IS REQUIRED PROVIDE MONITOR MODULE AS REQUIRED. SEE DETAIL A1/SA001.

SPRINKLER ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS		SYSTEM OUTPUTS																			
		SACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL									
1	SPRINKLER ALARM SYSTEM AC POWER FAILURE																				
2	SPRINKLER ALARM SYSTEM LOW BATTERY																				
3	OPEN CIRCUIT																				
4	GROUND FAULT																				
5	NOTIFICATION APPLIANCE CIRCUIT SHORT																				
6	BUILDING MANUAL PULL STATIONS																				
7	AREA SMOKE DETECTORS																				
8	SPRINKLER TAMPER SWITCH																				
9	SPRINKLER WATER FLOW IN BUILDING																				
10	LOW TEMP DETECTION IN HOT BOX																				
11	FIRE PUMP POWER FAILURE/PHASE REVERSAL																				
12	FIRE PUMP RUNNING																				
13	FIRE PUMP SYSTEM NOT IN AUTOMATIC																				
14																					

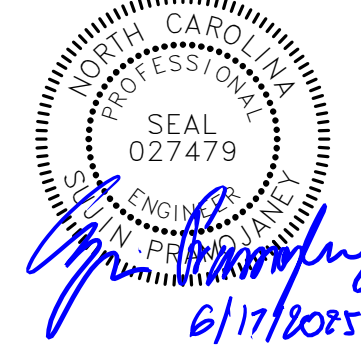
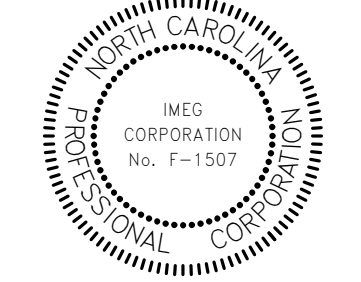
SPRINKLER ALARM RISER AND NOTES

PROJECT INFORMATION

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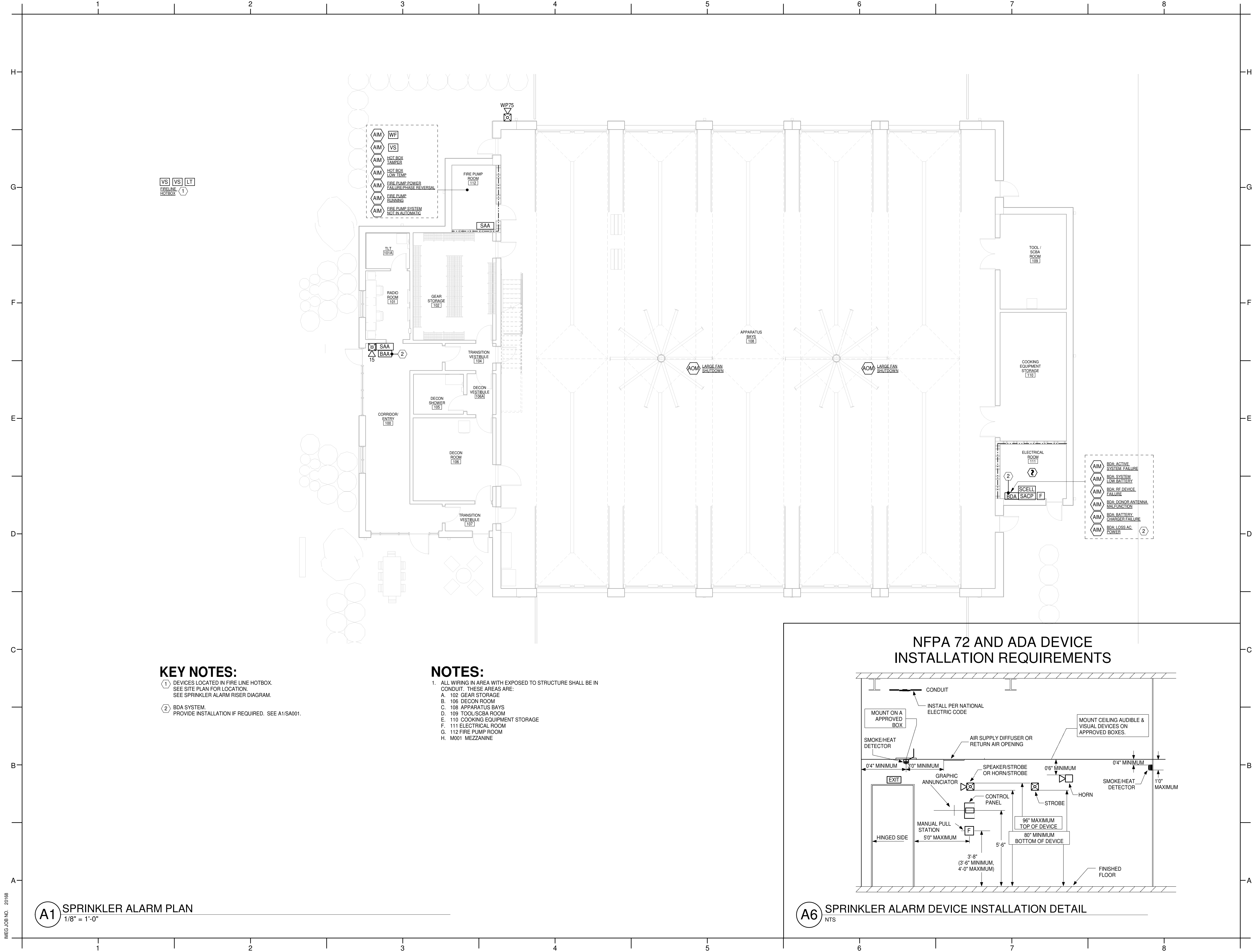
SHEET TITLE

SPRINKLER ALARM  
LEGEND, RISER,  
BDA SYSTEM

SA001



MEG JOB NO. 20168



VS VS LT  
FIRELINE  
HOTBOX 1

AIM WF  
AIM VS  
AIM HOT BOX  
SAFETY  
AIM HOT BOX  
LOW TEMP  
AIM FIRE PUMP POWER  
FAILURE/PHASE REVERSAL  
AIM FIRE PUMP  
RUNNING  
AIM FIRE PUMP SYSTEM  
NOT IN AUTOMATIC

AIM BDA ACTIVE  
SYSTEM FAILURE  
AIM BDA SYSTEM  
LOW BATTERY  
AIM BDA RF DEVICE  
FAILURE  
AIM BDA DONOR ANTENNA  
MALFUNCTION  
AIM BDA BATTERY  
CHARGER FAILURE  
AIM BDA LOSS AC  
POWER 2

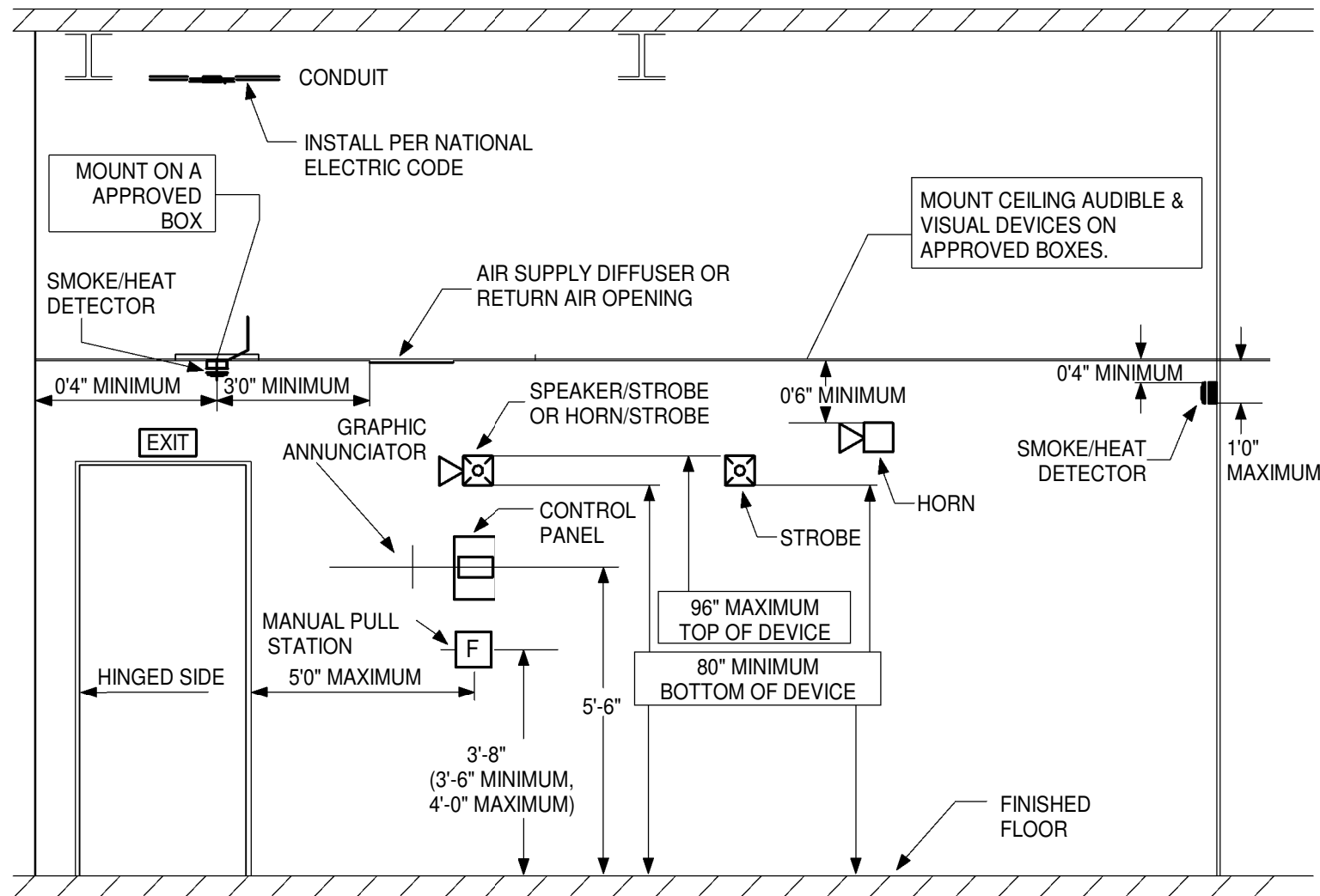
KEY NOTES:

1. DEVICES LOCATED IN FIRE LINE HOTBOX.  
SEE SITE PLAN FOR LOCATION.  
SEE SPRINKLER ALARM RISER DIAGRAM.
2. BDA SYSTEM.  
PROVIDE INSTALLATION IF REQUIRED. SEE A1/SA001.

NOTES:

1. ALL WIRING IN AREA WITH EXPOSED TO STRUCTURE SHALL BE IN  
CONDUIT. THESE AREAS ARE:  
A. 102 GEAR STORAGE  
B. 106 DECON ROOM  
C. 108 APPARATUS BAYS  
D. 109 TOOL/SCBA ROOM  
E. 110 COOKING EQUIPMENT STORAGE  
F. 111 ELECTRICAL ROOM  
G. 112 FIRE PUMP ROOM  
H. M001 MEZZANINE

NFPA 72 AND ADA DEVICE  
INSTALLATION REQUIREMENTS



A1 SPRINKLER ALARM PLAN  
1/8" = 1'-0"

A6 SPRINKLER ALARM DEVICE INSTALLATION DETAIL  
NTS

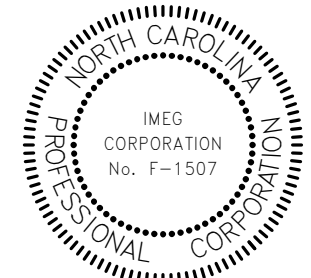
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SHEET TITLE  
SPRINKLER ALARM  
PLAN AND DETAIL

SA100